HEWLETT PACKARD

HP 8360 Series Synthesized Sweepers

Component Level Repair

Assemblies A1 through A11

Service Guide

General Information

The primary repair strategy for the HP 8360 series of microwave synthesized sweep generators is assembly level repair. It is fully documented in the HP 8360 series Operating and Service manual set (p/n 08360-90076) and does not include this component level package. This package is intended to provide assistance in repairing assemblies which may be relatively expensive to replace or difficult to obtain in a timely manner, and where the problem is a simple one to repair.

This component level package is a collection of individual assembly schematic packages. Each unique package (as designated by the unique assembly part number) contains three items: 1) a parts list; 2) a parts location diagram; and 3) the unique assemblies schematics.

Within the schematic package, there may be component value discrepancies between the parts lists and the schematic. In such cases, the accurate value, at the time of publication, is in the parts list.

This component level package contains information for the following assemblies:

Reference Designator	Description	Part Number
A1	Front Panel Keyboard Interface	08360-60001
A2	Source Module Interface Assembly	08360-60002
A3	Front Panel Processor Assembly	08360-60003
A4	Fractional N Assembly	08360-60010
A5	YO Phase Detector Assembly	08360-60009 08360-60209
A6	Sampler Assembly	08360-60007 08360-60214
A7	Reference Assembly	08360-60008 08360-60166
A8	Modulation Generator Assembly	08360-60166
A9	Pulse Assembly	08360-60005 08360-60152 08360-60188 08360-60205 08360-60232
A10	ALC Assembly	08360-60006 08360-60206 08360-60222
A11	FM Driver Assembly	08360-60011
A12	YTM Driver Assembly	08360-60012 08360-60212
A13	YO Driver Assembly	08360-60013 08360-60207 08360-60213

Reference Designator	Description	Part Number
A14	Sweep Generator Assembly	08360-60014
A15	CPU Assembly	08360-60015 08360-60215
A16	Post Regulator Assembly	08360-60016
A17	Rectifier & Filter Assembly	08360-60017
A18	Switching Regulator Assembly	08360-60018 08360-60198
A19	Rear Panel Interface Assembly	08360-60019
A20	RF Interface Assembly	08360-60004 08360-60187 08360-60223 08360-60241
A22	Motherboard Assembly	08360-60022 08360-60196

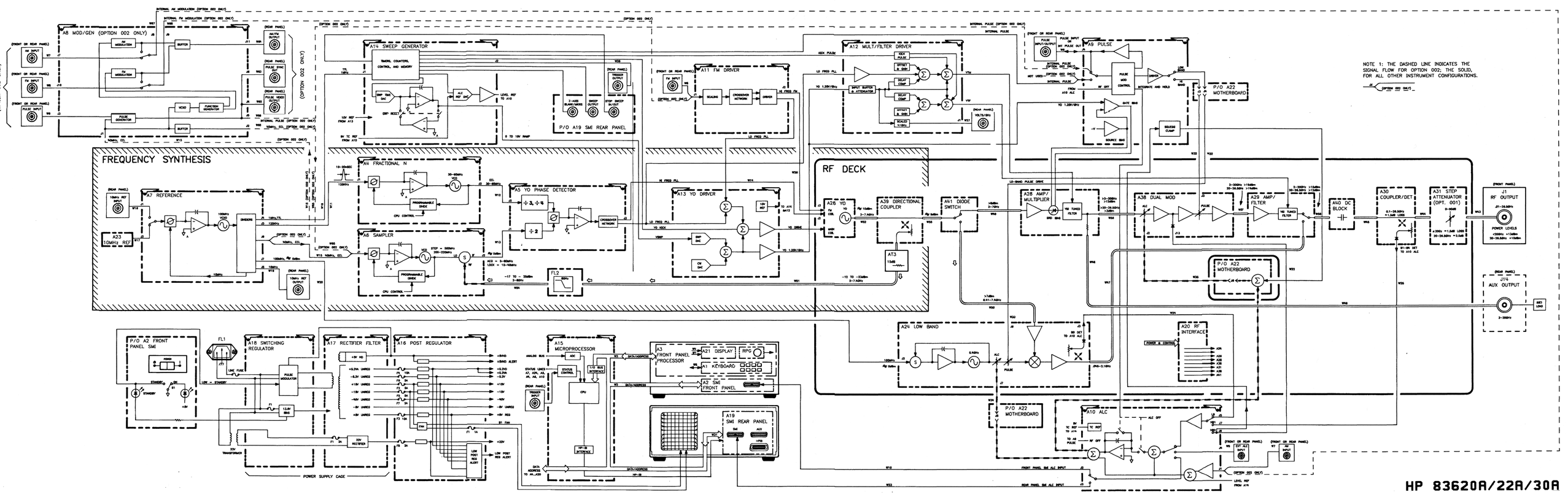
The remaining assemblies are microwave microcircuits and are not included in this package. These assemblies are supported to the assembly level repair strategy. Rebuilt-exchange for these assemblies is often available at a significantly reduced net-exchange price. Refer to the operating and service manual for more information.

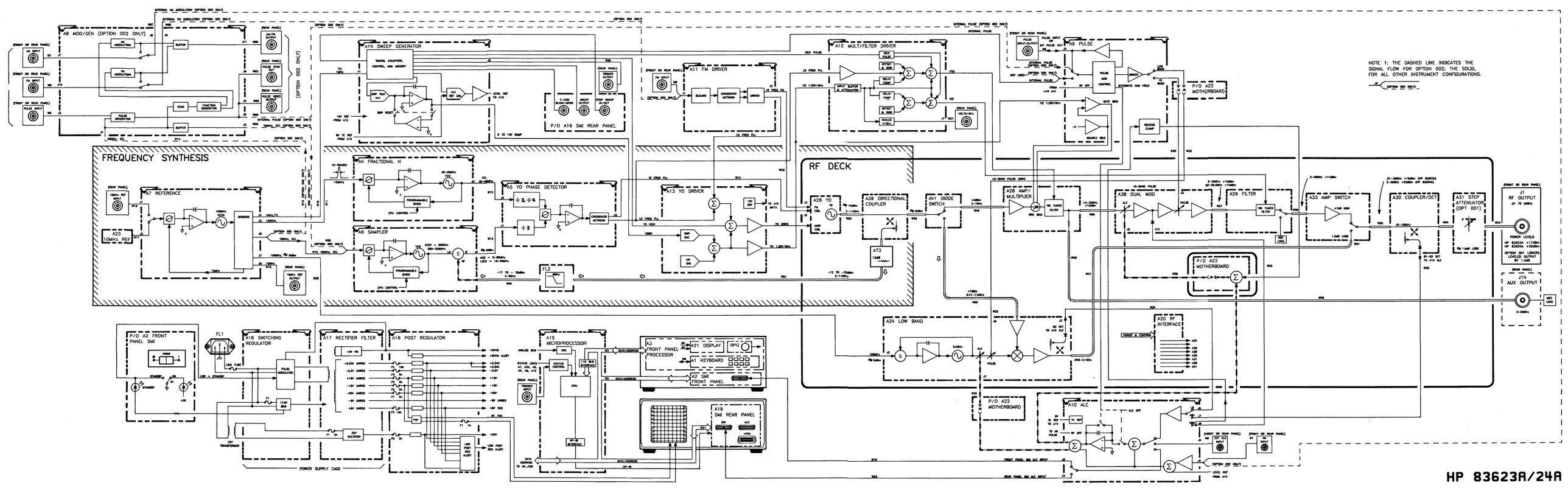
Manufacturer's Code List (1 of 2)

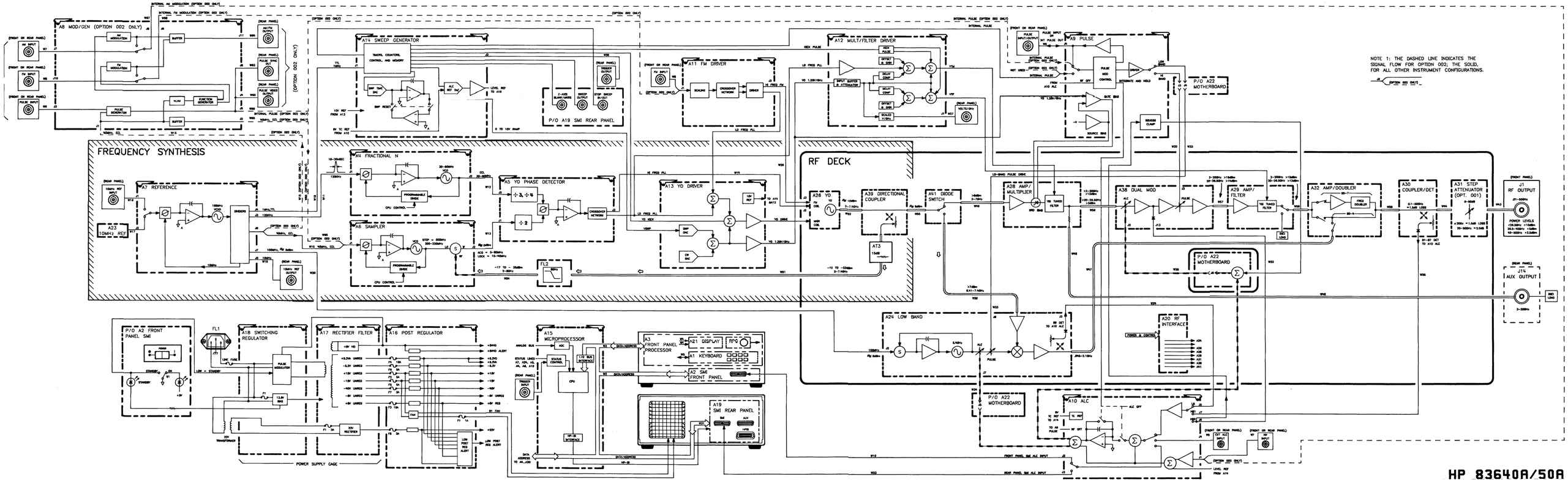
00493	UNITED CHEMI-CON INC	COMPTON	CA	90220
00715	MICROTRAN CO INC	VALLEY STREAM	NY	11582
00779	NICHICON (AMERICA) CORP	SCHAUMBERG	IL	60195
01125	LEWIS SCREW CO	CHICAGO	IL	60609
01339	GETTIG ENGRG & MFG CO INC	SPRING MILLS	PA	16875
01380	AMP INC	HARRISBURG	PA	17111
01409	CROVEN CRYSTALS	WHITBY		L1N 5
01417	NEL FREQUENCY CONTROLS INC	BURLINGTON	WI	53105
01468	STETTNER & CO	LAUF		D-856
01607	ALLEN-BRADLEY CO INC	EL PASO	TX	79935
01698	TEXAS INSTRUMENTS INC	DALLAS	TX	75265
01850	AROMAT CORP	MOUNTAINSIDE	NJ	07092
01854	RCL ELECTRONICS INC	NORTHBROOK	IL	60062
01869	PULSE ENGINEERING INC	SAN DIEGO	CA	92111
01886	COILCRAFT INC	CARY	IL	60013
01963	NYLON MOLDING CORP	SPRINGFIELD	NJ	07081
02010	AVX CORP	GREAT NECK	NY	11021
02037	MOTOROLA INC	ROSELLE	IL	60195
02121	LYN-TRON INC	BURBANK	CA	91505
02123	EG & G INC	WELLESLEY	MA	02181
02172	JEFFERS ELECTRONICS INC	NOGALES	AZ	85621
02180	PRECISION MONOLITHICS INC	SANTA CLARA	CA	95054
02210	MILTON ROSS CO	SOUTHHAMPTON	PA	18966
02367	CORNELL-DUBILIER/SANGAMO	WAYNE	NJ	07470
02392	C & K COMPONENTS INC	NEWTON	MA	02158
02408	DIXON INDUSTRIES CORPORATION	BRISTOL	RI	02809
02414	BURNDY CORP	NORWALK	CT	06856
02483	CTS CORP	ELKHART	IN	46514
02499	IRC INC	BOONE	NC	28607
02559	ALBANY PROD CO DIV OF PHEUMO DYN	NORWALK	CT	06850
02608	THERMALLOY INC	DALLAS	TX	75234
02685	LOBAUGH ROLLIN J	SOUTH SAN FRANC	CA	94080
02744	ELEC-TROL INC	SAUGUS	CA	91350
02805	COOPER INDUSTRIES INC	HOUSTON	TX	77210
02856	MOHAWK SPRING CO INC	ARLINGTON HEIGH	IL	60008
02883	SILICONIX INC	SANTA CLARA	CA	95054
02910	SIGNETICS CORP	SUNNYVALE	CA	94086
02923	CHOMERICS INC	WOBURN	MA	01801
02946	DUPONT E I DE NEMOURS & CO	WILMINGTON	DE	19801
02995	NORTH AMERICAN PHILIPS CORP	NEW YORK	NY	10017
03038	INTL RECTIFIER CORP	LOS ANGELES	CA	90069
03171	SOLITRON DEVICES INC	PALM BEACH	FL	33404
03273	GOWANDA ELECTRONICS CORP	GOWANDA	NY	14070
03285	ANALOG DEVICES INC	NORWOOD	MA	02062
03316	SPECIALTY CONNECTOR CO	FRANKLIN	IN	46131
03334	NV PHILIPS ELCOMA	EINDHOVEN		02876
03380	GRIES/DYNACAST CO DIV COATES-CLARK	NEW ROCHELLE	NY	10802
03406	NATIONAL SEMICONDUCTOR CORP	SANTA CLARA	CA	95052
03418	MOLEX INC	LISLE	IL	60532
03462	POSITRONIC INDUSTRIES INC	SPRINGFIELD	MO	65804
03627	SOLID STATE DEVICES INC	LA MIRADA	CA	90638
03724	BIVAR INC	SANTA ANA	CA	92705
03744	BOURNS NETWORKS INC	RIVERSIDE	CA	92507
03747	COLORADO CRYSTAL CORP	LOVELAND	CO	80537
03793	SILICON GENERAL INC	SAN JOSE	CA	95134
03799	HARRIS CORP	MELBOURNE	FL	32901
03811	INTEL CORP	SANTA CLARA	CA	95054
03981	PENN ENGINEERING & MFG CORP	DOYLESTOWN	PA	18901
04055	OVERLAND PRODUCTS CO	PHOENIX	AZ	68025
04200	SPRAGUE ELECTRIC CO	LEXINGTON	MA	02173
04225	THOMAS & BETTS CORP	RARITAN	NJ	08869

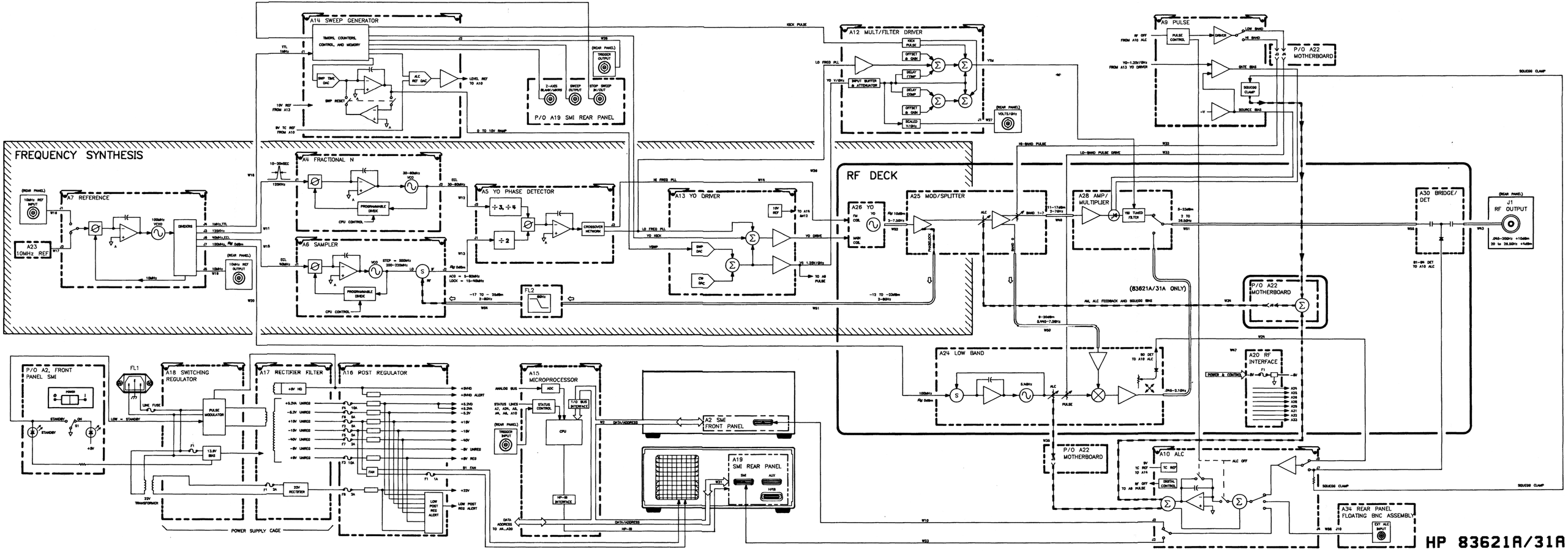
Manufacturer's Code List (2 of 2)

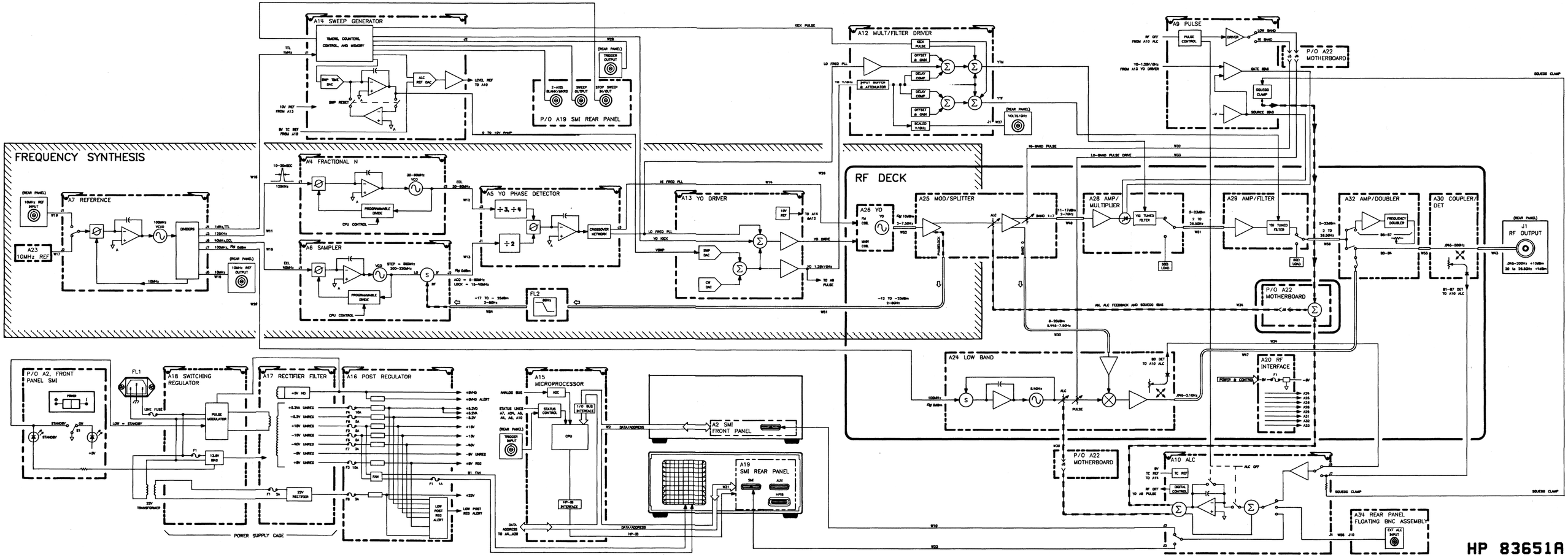
04486	ITT CORP	NEW YORK	NY	10022
04504	GENERAL INSTRUMENT CORP	CLIFTON	NJ	07012
04507	TRW INC	CLEVELAND	OH	44124
04567	ITT HARPER DIV	CHICAGO	IL	60606
04568	BECKMAN INDUSTRIAL CORP	FULLERTON	CA	92635
04703	LITTELFUSE INC	DES PLAINES	IL	60016
04726	3M CO	ST PAUL	MN	55144
04771	PHEOLL MFG CO DIV OF ALLIED PROD	CHICAGO	IL	60650
04805	ILLINOIS TOOL WORKS INC SHAKEPROOF	ELGIN	IL	60126
04939	SCHNITZER ALLOY PRODUCTS CO	ELIZABETH	NJ	07206
04990	GRAYHILL INC	LA GRANGE	IL	60525
05176	AMERICAN SHIZUKI CORP	CANOGA PARK	CA	91304
05447	BERGQUIST CO	MINNEAPOLIS	MN	55420
05518	AUGAT INC	MANSFIELD	MA	02048
05524	DALE ELECTRONICS INC	COLUMBUS	NE	68601
05610	CAMCAR SCREW & MFG CO	ROCKFORD	IL	61101
05769	ITT SEALECTRO CORP	TRUMBULL	CT	06611
05792	INTL ELECTRONIC RESEARCH CORP	BURBANK	CA	91502
05826	AMER PRCN IND INC DELEVAN DIV	AURORA	NY	14052
06118	ROEDERSTEIN/RESISTA GMBH	LANDSHUT		8300
06121	SIEMENS AG	MUNICH		8000
06127	WIMA	MANNHEIM		6800
06347	HITACHI LTD	CHIYODA-KU - TO		101
06352	TDK CORPORATION OF AMERICA	SKOKIE	IL	60076
06665	SAMTEC	NEW ALBANY	IN	47150
06691	HOUSE OF METRICS LTD	SPRING VALLEY	NY	10977
06784	MIDWEST COMPONENTS	MUSKEGON	MI	49443
07041	R.A.F. ELECTRONIC HARDWARE INC	STRATFORD	CT	06497
07179	AAVID ENGINEERING INC	LACONIA	NH	03247
07338	J K L COMPONENTS CORP	LOS ANGELES	CA	90064
07477	AMERICAN OIL & SUPPLY CO	NEWARK	NJ	07105
08123	COIL-Q CORP	BRONXVILLE	NY	
08709	PANASONIC INDUSTRIAL CO	SECAUCUS	NJ	07094
08838	AND (ALPHA NUMERIC DISPLAYS)	BURLINGAME	CA	
09366	HYCOMP, INC	MAYNARD	MA	
09694	ELECTRONIC ESSENTIALS	WOODSIDE	NY	
09939	MURATA ERIE NORTH AMERICA INC	SMYRNA	GA	30080
10572	XICOR, INC	MILPITAS	CA	
10858	LINEAR TECHNOLOGY CORP	MILPITAS	CA	95035
11212	INDUCTOR SUPPLY, INC.	HUNTINGTON BCH	CA	
11699	CENTRAL SEMICONDUCTOR CORP	HAUPPAUGE	NY	11788
11892	EVOX/RIFA INC	LINCOLNSHIRE	IL	60015
11946	BKC INTERNATIONAL ELECTRONICS	LAWRENCE	MA	01841
12186	DALLAS SEMICONDUCTOR CORP	DALLAS	TX	75244
12340	KEMET ELECTRONICS CORPORATION	GREENVILLE	SC	29606
12384	MOLKENBUHR ENTERPRISES INC	SUNNYVALE	CA	94086
12404	XILINX INC	SAN JOSE	CA	95124
12703	CHAMPION TECHNOLOGIES INC	FRANKLIN PARK	IL	60131
12830	KETEMA	BENSALEM	PA	19020
28480	HEWLETT-PACKARD CO CORP HQ	PALO ALTO	CA	94304

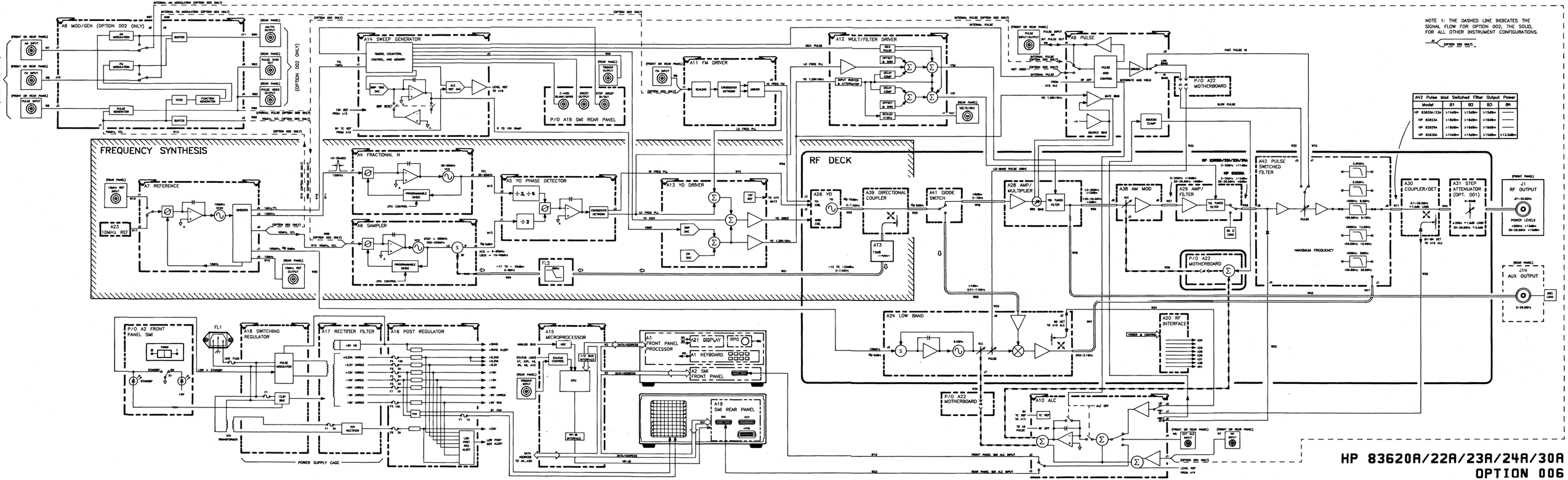

A8 MOD/GEN (OPTION 002 ONLY)
AM MODULATION
FM MODULATION
PULSE MODULATION
BUFFER
VCXO
FUNCTION GENERATOR
PULSE GENERATOR
(FRONT OR REAR PANEL)
AM INPUT
FM INPUT
PULSE INPUT
(REAR PANEL)
AM/FM OUTPUT
PULSE SYNC OUTPUT
PULSE VIDEO OUTPUT
(OPTION 002 ONLY)
INTERNAL AM MODULATION (OPTION 002 ONLY)
INTERNAL FM MODULATION (OPTION 002 ONLY)
INTERNAL PULSE (OPTION 002 ONLY)
10MHz, ECL
(OPTION 002 ONLY)
A14 SWEEP GENERATOR
TIMEBASE, COUNTERS, CONTROL, AND MEMORY
SWP TIME DAC
ALC REF DAC
LEVEL REF TO A10
10V REF FROM A13
8V TC REF FROM A10
0 TO 10V RAMP
TTL (SMB)
(REAR PANEL) TRIGGER INPUT/OUTPUT
P/O A19 SMI REAR PANEL
2-AXIS BLANK/MARKER
SWEEP OUTPUT
STOP SWEEP IN/OUT
A11 FM DRIVER
SCALING
CROSSOVER NETWORK
DRIVER
HI FREQ PLL
LO FREQ PLL
A12 MULT/FILTER DRIVER
KICK PULSE
OFFSET & GAIN
DELAY COMP
SCALED V/GHz
INPUT BUFFER & ATTENUATOR
YTO 1.25V/GHz
A9 PULSE
PULSE MOD CONTROL
ERROR
INTEGRATE AND HOLD
LOW BAND
GATE BIAS
SOURCE BIAS
SQUELCH CLAMP
FROM A10 ALC
RF OFF
P/O A22 MOTHERBOARD
NOT USED
NOTE 1: THE DASHED LINE INDICATES THE SIGNAL FLOW FOR OPTION 002; THE SOLID, FOR ALL OTHER INSTRUMENT CONFIGURATIONS.
(OPTION 002 ONLY)
FREQUENCY SYNTHESIS
A7 REFERENCE
100MHz REF INPUT
100MHz VCXO
DIVIDERS
10MHz REF OUTPUT
A23 10MHz REF
A4 FRACTIONAL N
10-30MSEC
120MHz
30-60MHz VCO
ECL 30-60MHz
PROGRAMMABLE DIVIDE
CPU CONTROL
A5 YO PHASE DETECTOR
÷ 3, ÷ 4
÷ 2
A6 SAMPLER
STEP = 500MHz
200-320MHz VCO
PROGRAMMABLE DIVIDE
ACQ = 3-6GHz
LOCK = 13-18GHz
-17 TO -23dBm 3-6GHz
FL2
A13 YO DRIVER
10V REF
YO DRIVE
YO 1.25V/GHz
RF DECK
A26 YO
FM COIL
MAIN COIL
A39 DIRECTIONAL COUPLER
A11 DIODE SWITCH
AT3 15dB
-13 TO -23dBm 3-7.5GHz
>7dBm 6.5/7.5GHz
A28 AMP/ MULTIPLIER
SMD SMA
YIG TUNED FILTER
3-20GHz >15dBm 20-26.5GHz >13dBm 26.5-40GHz >12dBm
A38 DUAL MOD
ALC
PULSE
A29 AMP/ FILTER
A40 DC BLOCK
A30 COUPLER/DET
0.1-26.5GHz =1.2dB LOSS
81-86 DET TO A10 ALC
A31 STEP ATTENUATOR (OPT. 001)
0-90dB
A 20GHz =1.2dB LOSS
20-26.5GHz =2.0dB
(FRONT PANEL) J1 RF OUTPUT
POWER LEVELS
<20GHz +13dBm
20-26.5GHz +10dBm
(REAR PANEL) J14 AUX OUTPUT
50Ω LOAD
2-20GHz
A24 LOW BAND
100MHz
6.6GHz
ALC
80 DET TO A10 ALC
A20 RF INTERFACE
POWER & CONTROL
A28
A29
A30
A31
J61
P/O A22 MOTHERBOARD
A10 ALC
ALC OFF
1C REF
RF OFF
TO A19
TO A8 PULSE
(FRONT OR REAR PANEL) EXT ALC INPUT
(OPTION 002 ONLY)
LEVEL REF FROM A19
FRONT PANEL SMI ALC INPUT
REAR PANEL SMI ALC INPUT
P/O A2 FRONT PANEL SMI
POWER
STANDBY
ON
+5V
FL1
LINE FUSE
LOW = STANDBY
A18 SWITCHING REGULATOR
PULSE MODULATOR
13.6V BIAS
22V TRANSFORMER
22V RECTIFIER
A17 RECTIFIER FILTER
+5V HD
+5.2VA UNREG
-5.2V UNREG
+15V UNREG
-15V UNREG
-40V UNREG
-8V UNREG
+8V UNREG
FAN
A16 POST REGULATOR
+BIAS
+BIAS ALERT
+5.2VD
+5.2VA
-5.2V
+15V
-15V
-40V
-8V UNREG
+8V REG
+22V
LOW POST REG ALERT
POWER SUPPLY CAGE
A15 MICROPROCESSOR
ADC
STATUS CONTROL
CPU
I/O BUS INTERFACE
HP-IB INTERFACE
ANALOG BUS
STATUS LINES A27, A29, A5, A4, A3, A10
DATA/ADDRESS
DATA/ADDRESS TO A4...A30
A3 FRONT PANEL PROCESSOR
A21 DISPLAY
RPG
A1 KEYBOARD
A2 SMI FRONT PANEL
A19 SMI REAR PANEL
A19
HP-IB
RS-232
HP-IB
(REAR PANEL) TRIGGER OUTPUT
W1
W2
W3
W4
W5
W6
W7
W8
W9
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W11
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HP 83620A/22A/30A

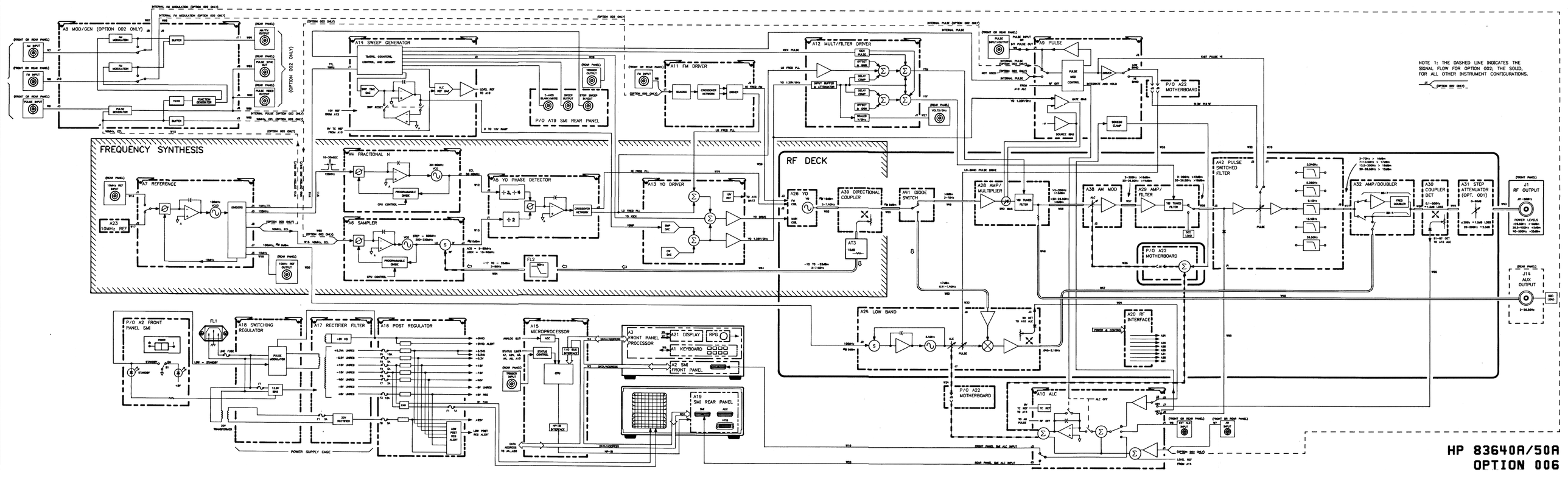

NOTE 1: THE DASHED LINE INDICATES THE SIGNAL FLOW FOR OPTION 002; THE SOLID, FOR ALL OTHER INSTRUMENT CONFIGURATIONS.
(OPTION 002 ONLY)
FREQUENCY SYNTHESIS
RF DECK
A8 MOD/GEN (OPTION 002 ONLY)
A14 SWEEP GENERATOR
A12 MULT/FILTER DRIVER
A9 PULSE
A11 FM DRIVER
A7 REFERENCE
A23 10MHz REF
A4 FRACTIONAL N
A6 SAMPLER
A5 YO PHASE DETECTOR
A13 YO DRIVER
A26 YO
A39 DIRECTIONAL COUPLER
A41 DIODE SWITCH
A28 AMP/ MULTIPLIER
A38 DUAL MOD
A29 FILTER
A33 AMP SWITCH
A30 COUPLER/DET
A31 STEP ATTENUATOR (OPT 001)
A24 LOW BAND
A20 RF INTERFACE
A10 ALC
P/O A22 MOTHERBOARD
P/O A2 FRONT PANEL SMI
A18 SWITCHING REGULATOR
A17 RECTIFIER FILTER
A16 POST REGULATOR
A15 MICROPROCESSOR
A3 FRONT PANEL PROCESSOR
A21 DISPLAY
A1 KEYBOARD
A2 SMI FRONT PANEL
A19 SMI REAR PANEL
POWER SUPPLY CAGE
J1 RF OUTPUT
J11 AUX OUTPUT
HP 83623A/24A


FREQUENCY SYNTHESIS
RF DECK
A8 MOD/GEN (OPTION 002 ONLY)
A14 SWEEP GENERATOR
A11 FM DRIVER
A12 MULT/FILTER DRIVER
A9 PULSE
A23 10MHz REF
A7 REFERENCE
A4 FRACTIONAL N
A5 YO PHASE DETECTOR
A6 SAMPLER
A13 YO DRIVER
A26 YO
A39 DIRECTIONAL COUPLER
A41 DIODE SWITCH
A28 AMP/ MULTIPLIER
A38 DUAL MOD
A29 AMP/ FILTER
A32 AMP/DOUBLER
A30 COUPLER/DET
A31 STEP ATTENUATOR (OPT. 001)
A24 LOW BAND
A20 RF INTERFACE
A10 ALC
A18 SWITCHING REGULATOR
A17 RECTIFIER FILTER
A16 POST REGULATOR
A15 MICROPROCESSOR
A3 FRONT PANEL PROCESSOR
A1 KEYBOARD
A21 DISPLAY
A2 SMC FRONT PANEL
A19 SMI REAR PANEL
P/O A22 MOTHERBOARD
P/O A2 FRONT PANEL SMI
POWER SUPPLY CAGE
J1 RF OUTPUT
J14 AUX OUTPUT
NOTE 1: THE DASHED LINE INDICATES THE SIGNAL FLOW FOR OPTION 002; THE SOLID, FOR ALL OTHER INSTRUMENT CONFIGURATIONS.
HP 83640A/50A


FREQUENCY SYNTHESIS
A14 SWEEP GENERATOR
TIMERS, COUNTERS, CONTROL, AND MEMORY
P/O A19 SMI REAR PANEL
A12 MULT/FILTER DRIVER
A9 PULSE
P/O A22 MOTHERBOARD
A4 FRACTIONAL N
A5 YO PHASE DETECTOR
A6 SAMPLER
A7 REFERENCE
A23 10MHz REF
A13 YO DRIVER
RF DECK
A26 YO
A25 MOD/SPLITTER
A28 AMP/ MULTIPLIER
A30 BRIDGE/ DET
J1 RF OUTPUT
(83621A/31A ONLY)
A24 LOW BAND
A20 RF INTERFACE
A10 ALC
A34 REAR PANEL FLOATING BNC ASSEMBLY
P/O A2, FRONT PANEL SMI
A18 SWITCHING REGULATOR
A17 RECTIFIER FILTER
A16 POST REGULATOR
A15 MICROPROCESSOR
A2 SMI FRONT PANEL
A19 SMI REAR PANEL
POWER SUPPLY CAGE
HP 83621A/31A


FREQUENCY SYNTHESIS
RF DECK
A14 SWEEP GENERATOR
TIMEBASE, COUNTERS, CONTROL AND MEMORY
SWP TIME DAC
ALC REF DAC
SWP RESET
10V REF FROM A13
8V TC REF FROM A10
LEVEL REF TO A10
0 TO 10V RAMP
Z-AXIS BLANK/UNBLK
SWEEP OUTPUT
STOP SWEEP IN/OUT
TRIGGER OUTPUT
P/O A19 SMI REAR PANEL
A4 FRACTIONAL N
30-60MHz VCO
PROGRAMMABLE DIVIDE
CPU CONTROL
A6 SAMPLER
VCO
STEP = 50MHz
200-230MHz
LO
RF
ACQ = 5-60MHz
LOCK = 15-40MHz
A5 YO PHASE DETECTOR
÷3, ÷4
÷2
CROSSOVER NETWORK
A7 REFERENCE
100MHz VCXO
DIVIDERS
A23 10MHz REF
10MHz REF INPUT
10MHz REF OUTPUT
A13 YO DRIVER
YO KICK
SWP DAC
CW DAC
YO DRIVE
YO 1.28V/GHz
TO A8 PULSE
A12 MULT/FILTER DRIVER
KICK PULSE
OFFSET & GAIN
DELAY COMP
INPUT BUFFER & ATTENUATOR
SCALED V/GHz
YTM
YTF
VOLTS/GHz
A26 YO
FM COIL
MAIN COIL
A25 MOD/SPLITTER
PHASELOCK
ALC
RF BAND 1-7
11-17dBm 3-7GHz
A28 AMP/ MULTIPLIER
YIG TUNED FILTER
5-23dBm 2 TO 26.5GHz
50Ω LOAD
A29 AMP/FILTER
A32 AMP/DOUBLER
FREQUENCY DOUBLER
A30 COUPLER/ DET
J1 RF OUTPUT
.045-50GHz
.045-50GHz +10dBm 30 to 26.5GHz +4dBm
B1-B7 DET TO A10 ALC
A9 PULSE
PULSE CONTROL
DRIVER
LOW BAND
HI BAND
GATE BIAS
SQUEGG CLAMP
SOURCE BIAS
RF OFF FROM A10 ALC
YO-1.28V/GHz FROM A13 YO DRIVER
P/O A22 MOTHERBOARD
HI-BAND PULSE
LO-BAND PULSE DRIVE
AM, ALC FEEDBACK AND SQUEGG BIAS
A24 LOW BAND
100MHz
8.4GHz
PULSE
.045-2.1GHz
A20 RF INTERFACE
POWER & CONTROL
A10 ALC
TC REF
DIGITAL CONTROL
ALC OFF
A34 REAR PANEL FLOATING BNC ASSEMBLY
EXT ALC INPUT
P/O A2, FRONT PANEL SMI
POWER
STANDBY
ON
+8V
FL1
LINE FUSE
LOW = STANDBY
A18 SWITCHING REGULATOR
PULSE MODULATOR
13.8V RMS
22V RECTIFIER
22V TRANSFORMER
A17 RECTIFIER FILTER
+8V HD
+5.2VA UNREG
-5.2V UNREG
+18V UNREG
-18V UNREG
-40V UNREG
-8V UNREG
+8V UNREG
FAN
B1 FAN
+22V
LOW POST REG ALERT
A16 POST REGULATOR
+8VHD
+8VHD ALERT
+5.2VD
+5.2VA
-5.2V
+18V
-18V
-40V
-8V
+8V REG
A15 MICROPROCESSOR
ADC
STATUS CONTROL
I/O BUS INTERFACE
CPU
HP-IB INTERFACE
ANALOG BUS
STATUS LINES A7, A29, A6, A4, A3, A18
DATA/ADDRESS
DATA ADDRESS TO ALL A30
A2 SMI FRONT PANEL
A19 SMI REAR PANEL
SMI
AUX
HPIB
POWER SUPPLY CAGE
HP 83651A


NOTE 1: THE DASHED LINE INDICATES THE SIGNAL FLOW FOR OPTION 002; THE SOLID, FOR ALL OTHER INSTRUMENT CONFIGURATIONS.
(OPTION 002 ONLY)
A8 MOD/GEN (OPTION 002 ONLY)
A14 SWEEP GENERATOR
A11 FM DRIVER
A12 MULT/FILTER DRIVER
A9 PULSE
P/O A22 MOTHERBOARD
FREQUENCY SYNTHESIS
A7 REFERENCE
A23 10MHz REF
A4 FRACTIONAL N
A5 YO PHASE DETECTOR
A6 SAMPLER
A13 YO DRIVER
RF DECK
A26 YO
A39 DIRECTIONAL COUPLER
A41 DIODE SWITCH
A28 AMP/ MULTIPLIER
A38 AM MOD
A29 AMP/ FILTER
A42 PULSE SWITCHED FILTER
A30 COUPLER/DET
A31 STEP ATTENUATOR (OPT. 001)
J1 RF OUTPUT
J14 AUX OUTPUT
A42 Pulse Mod Switched Filter Output Power
Model | B1 | B2 | B3 | B4
HP 83620A/22A | >16dBm | >15dBm | >15dBm | ——
HP 83623A | >16dBm | >19dBm | >19dBm | ——
HP 83624A | >16dBm | >19dBm | >19dBm | ——
HP 83630A | >16dBm | >15dBm | >15dBm | >13.5dBm
P/O A22 MOTHERBOARD
A24 LOW BAND
A20 RF INTERFACE
A10 ALC
P/O A22 MOTHERBOARD
P/O A2 FRONT PANEL SMI
FL1
A18 SWITCHING REGULATOR
A17 RECTIFIER FILTER
A16 POST REGULATOR
A15 MICROPROCESSOR
A3 FRONT PANEL PROCESSOR
A21 DISPLAY
A1 KEYBOARD
A2 SMI FRONT PANEL
A19 SMI REAR PANEL
POWER SUPPLY CAGE
HP 83620A/22A/23A/24A
HP 83630A
HP 83623A/24A
HP 83630A
HP 83620A/22A/23A/24A/30A
HP 83623A/24A/30



HP 83640A/50A
OPTION 006

Schematic Package for 08360-60001 A1 Front Panel

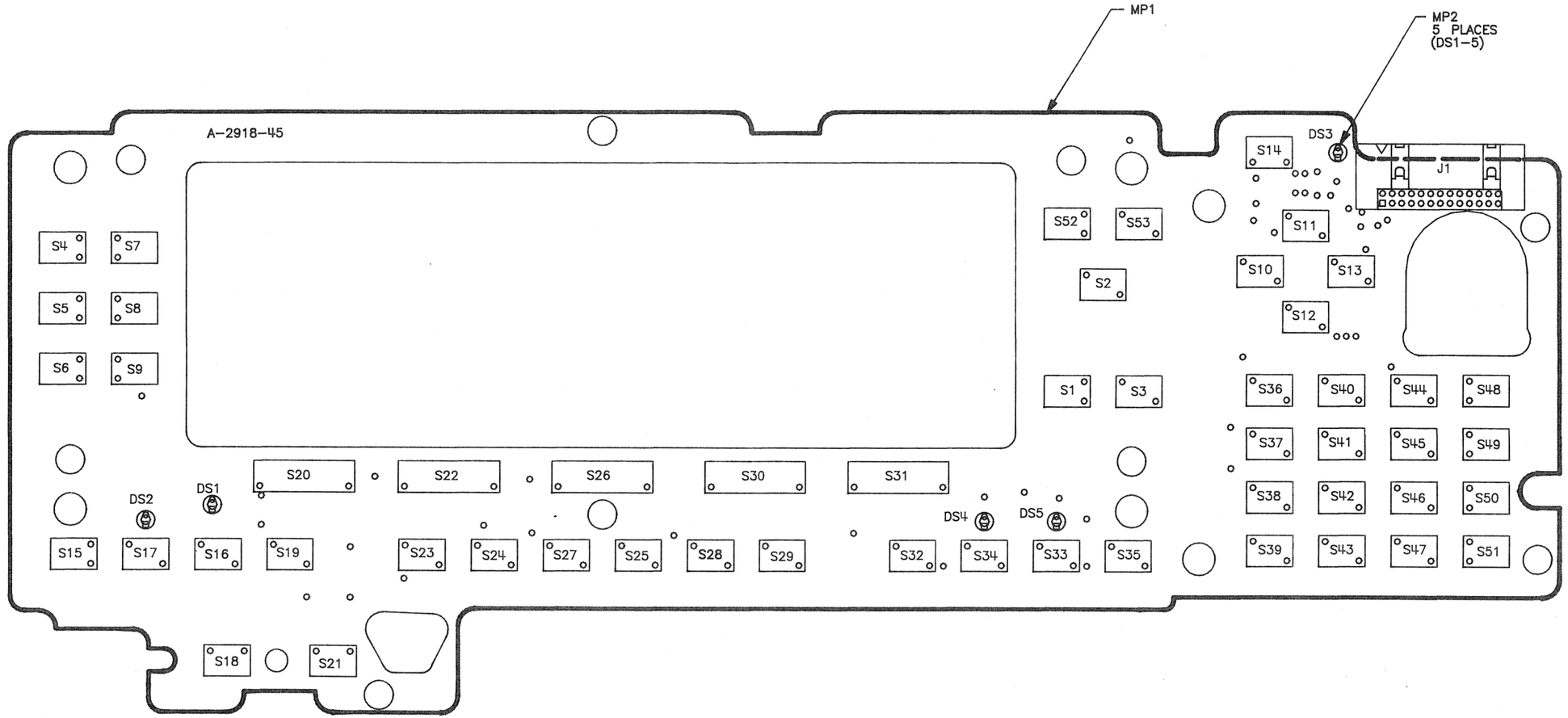
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Replaceable Parts List for A1 Keyboard Assembly, Part Number 08360–60001 (1 of 1)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A1	08360–60001	1	BD ASSY–KEYBOARD	28480	08360–60001
A1DS1	1990–0857	1	LED–LAMP LUM–INT=150UCD IF=25MA–MAX	08838	226G
A1DS2	1990–0858	1	LED–LAMP LUM–INT=150UCD IF=25MA–MAX	08838	AND226Y
A1DS3	1990–0858	1	LED–LAMP LUM–INT=150UCD IF=25MA–MAX	08838	AND226Y
A1DS4	1990–0858	1	LED–LAMP LUM–INT=150UCD IF=25MA–MAX	08838	AND226Y
A1DS5	1990–0858	1	LED–LAMP LUM–INT=150UCD IF=25MA–MAX	08838	AND226Y
A1J1	1251–5151	1	CONN–POST TYPE .100–PIN–SPCG 26–CONT	02946	65496–142
A1MP2	1400–1519	5	MOUNT–LED NYLON MATEIAL; 0.120 IN ID	03724	908–230



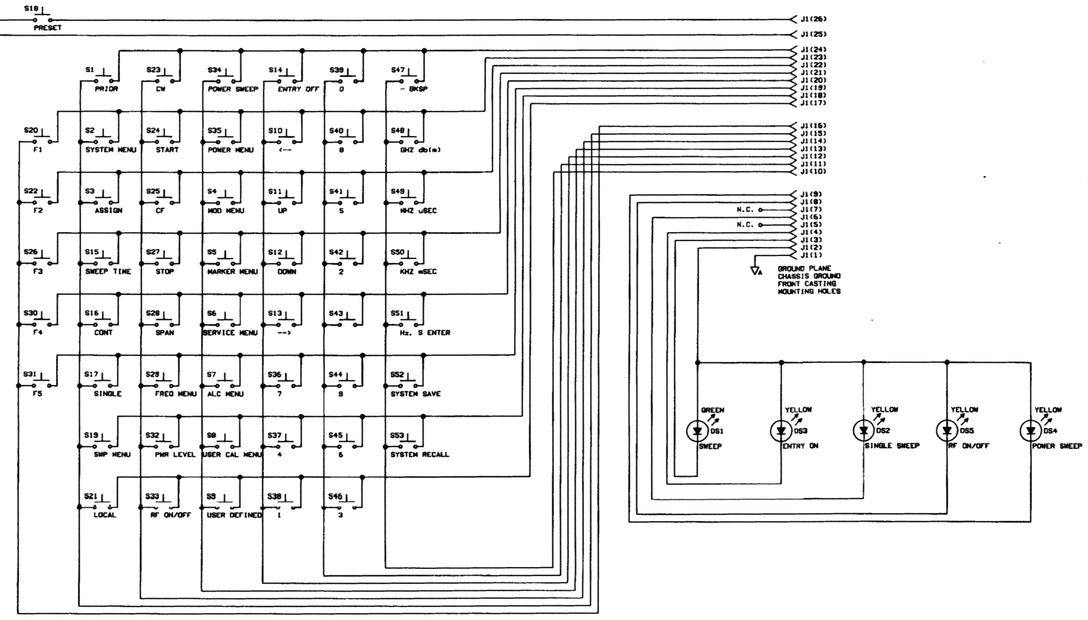
NOTES: UNLESS OTHERWISE SPECIFIED

1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A–5951–1582–1 (741.070C)
   SOLDERING PER A–5951–1585–1 (741.070F)
   REWORK PER A–5951–1586–1 (741.070G)
2. ALL SWITCHES ARE SHOWN FOR REFERENCE ONLY

HEWLETT PACKARD

A1 Keyboard

08360–60001



NOTES: UNLESS OTHERWISE SPECIFIED.

1. ALL SWITCHES SHOWN FOR REFERENCE ONLY.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
DS5 J1 S53	

A1 Keyboard

08360-60001

(SHEET 1 of 1)

Schematic Package for 08360-60002 A2 Source Module Interface

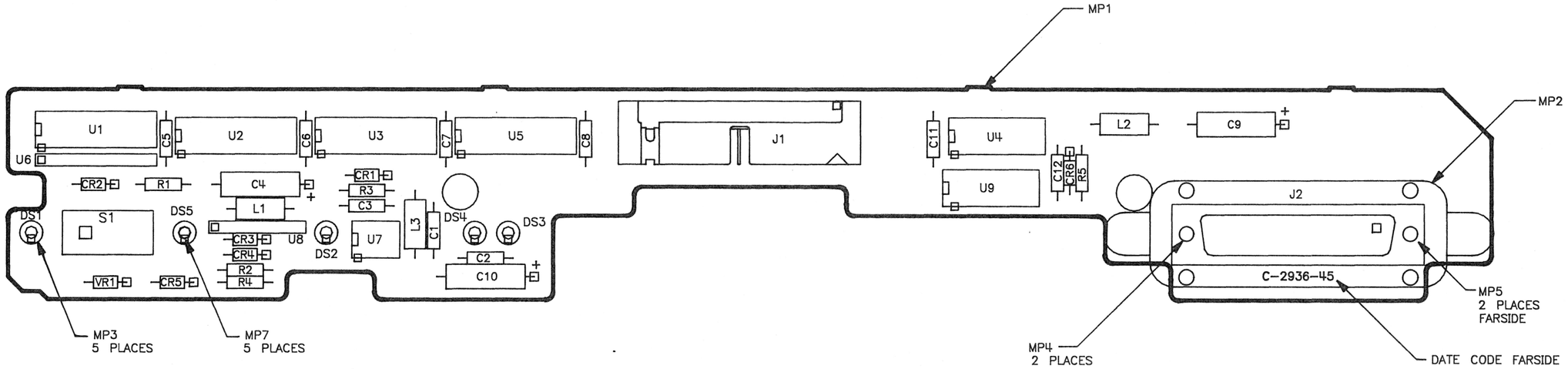
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Information in this document is subject to change without notice. The configuration of some assemblies may differ from that indicated in this document.

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Replaceable Parts List for A2 Source Module Interface Assembly, Part Number 08360–60002 (1 of 1)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A2	08360–60002	1	BD AY–SRC MOD IN	28480	08360–60002
A2C1	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A2C2	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A2C3	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A2C4	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A2C5	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A2C6	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A2C7	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A2C8	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A2C9	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A2C10	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A2C11	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A2C12	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A2CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A2CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A2CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A2CR4	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A2CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A2CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A2DS1	1990–0858	1	LED–LAMP LUM–INT=150UCD IF=25MA–MAX	08838	AND226Y
A2DS2	1990–0856	1	LED–LAMP LUM–INT=150UCD IF=20MA–MAX	08838	
A2DS3	1990–0858	1	LED–LAMP LUM–INT=150UCD IF=25MA–MAX	08838	AND226Y
A2DS4	1990–0858	1	LED–LAMP LUM–INT=150UCD IF=25MA–MAX	08838	AND226Y
A2DS5	1990–0857	1	LED–LAMP LUM–INT=150UCD IF=25MA–MAX	08838	226G
A2J1	1252–3199	1	CONN–POST TYPE .100–PIN–SPCG 34–CONT	04726	2534–5003UB
A2J2	1252–2732	1	CONN–RECT D–SUBMIN 20–CKT 20–CONT	03462	CBM21W1F3000X–882.0
A2L1	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03706	24702M–5%
A2L2	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03706	24702M–5%
A2L3	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03706	24702M–5%
A2MP2	08360–20031	1			
A2MP3	1400–1520	5	MOUNT–LED NYLON MATERIAL; 0.120 IN ID	03724	908–775
A2MP4	1251–2942	2	SCREW LOCK KIT–SUBMIN D CONN	04486	D20418–2
A2MP5	2200–0103	2	SCREW–MACH 4–40 .25–IN–LG PAN–HD–POZI	04771	
A2MP7	0890–0099		TUBING–FLEX .025–ID TFE .012–WALL	02408	I–SW
A2R1	0698–3150	1	RESISTOR 2.37K ±1% .125W TF TC=0±100	05524	CMF–55–1
A2R2	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A2R3	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A2R4	0698–0085	1	RESISTOR 2.61K ±1% .125W TF TC=0±100	05524	CMF–55–1
A2R5	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A2S1	3101–2993	1	SWITCH–RKR SIG–SW SPDT .02A 20VAC/DC PC	02392	E101J1V7BE–W/7602–19–000
A2U1	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A2U2	1820–3082	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC374N
A2U3	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A2U4	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A2U5	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A2U6	1810–0279	1	NETWORK–RES 10–SIP 4.7K OHM X 9	05524	MSP10A01–472G
A2U7	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A2U8	1810–0203	1	NETWORK–RES 8–SIP 470.0 OHM X 7	02483	750–81
A2U9	1906–0074	1	DIODE–ARRAY 50V 400MA	02037	MMAD1103P
A2VR1	1902–0943	1	DIODE–ZNR 2.4V 5% DO–35 PD=.4W TC=–.037	02037	SZ30035–1



NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

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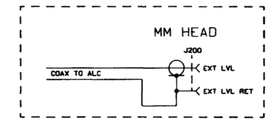
A2 Source Module Interface

08360-60002

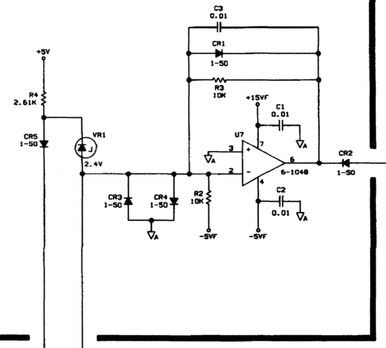
NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
C12	
CR6	
DS5	
J2	
L3	
R5	
S1	
U9	
VR1	

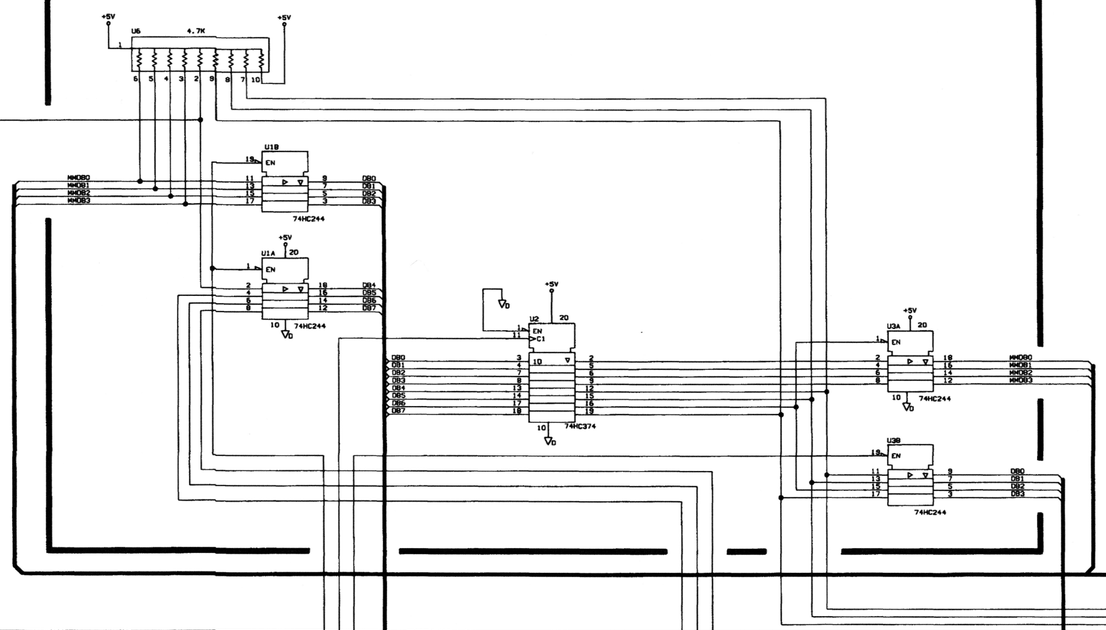
OFF BOARD SOURCE MODULE INTERFACE



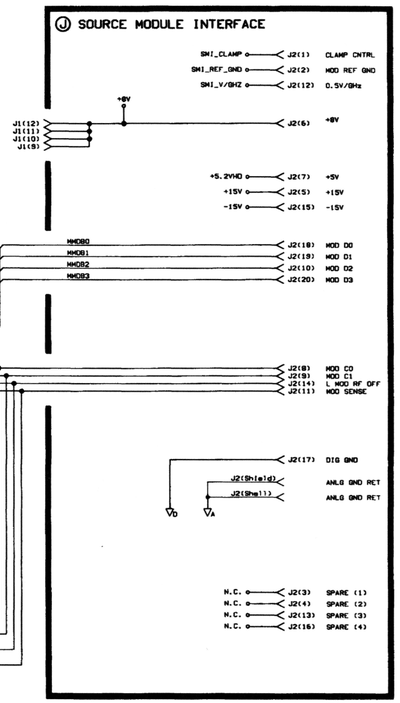
A MODULE SENSE



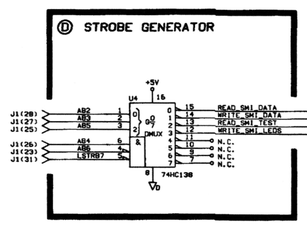
C SOURCE MODULE CONTROL



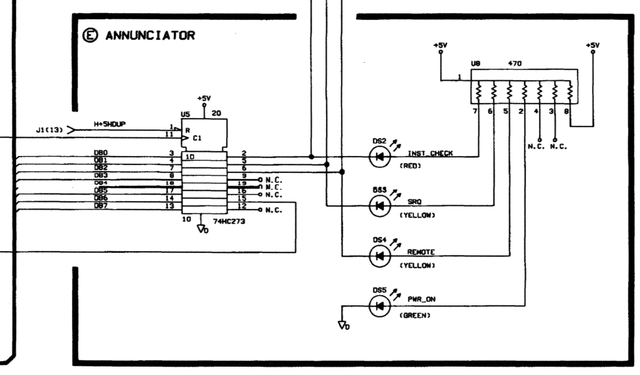
J SOURCE MODULE INTERFACE



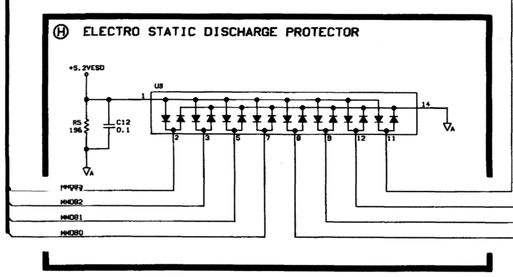
D STROBE GENERATOR



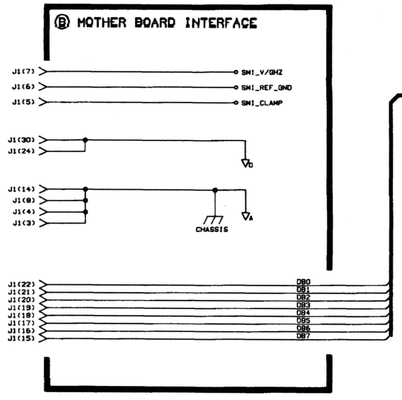
E ANNUNCIATOR



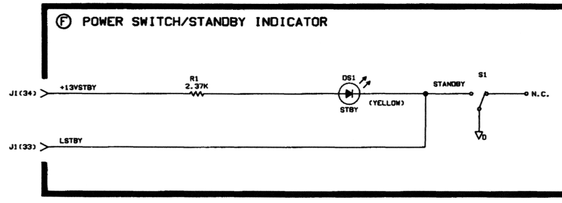
H ELECTRO STATIC DISCHARGE PROTECTOR



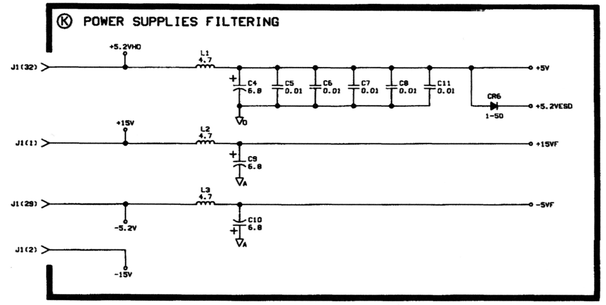
B MOTHER BOARD INTERFACE



F POWER SWITCH/STANDBY INDICATOR



K POWER SUPPLIES FILTERING



A2 Source Module Interface

08360-60002

(SHEET 1 of 1)

Schematic Package for 08360-60003 A3 Front Panel Processor

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Information in this document is subject to change without notice. The configuration of some assemblies may differ from that indicated in this document.

HEWLETT PACKARD

Replaceable Parts List for A3 Front Panel Processor Assembly, Part Number 08360–60003 (1 of 3)

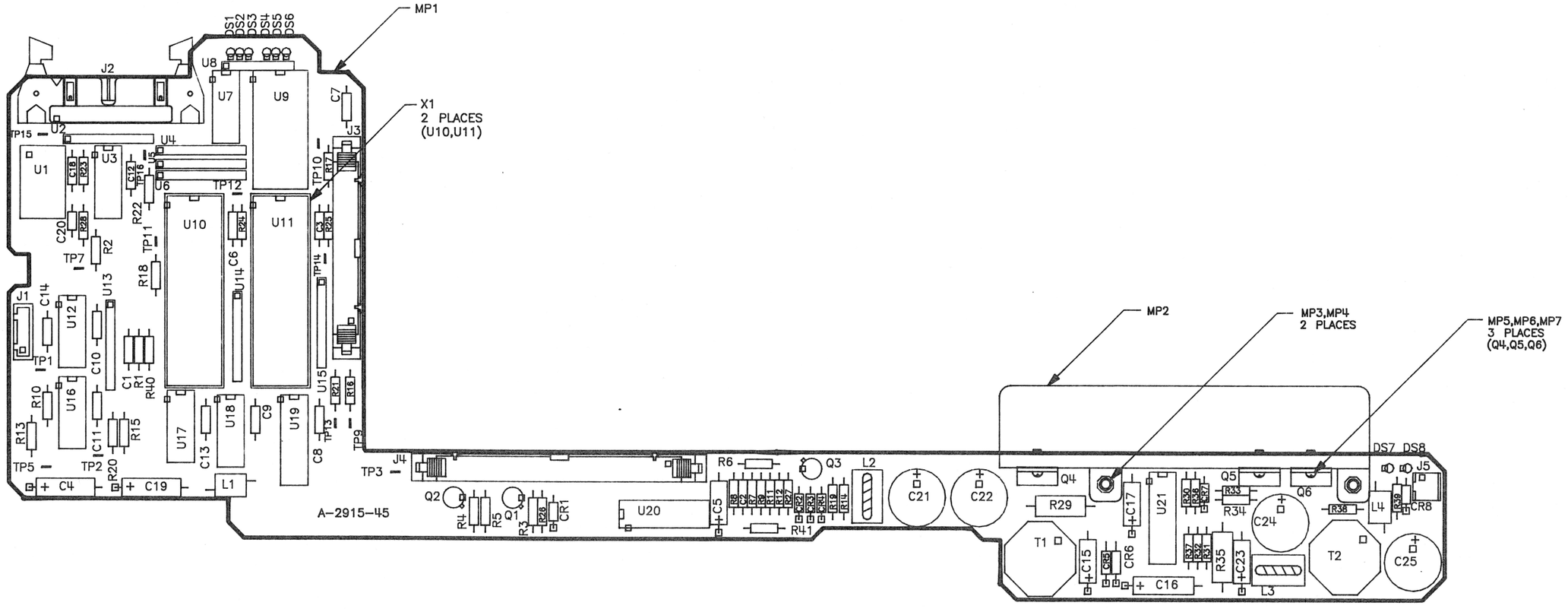
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3	08360–60003	1	BD AY–FR PNL PRC	28480	08360–60003
A3C1	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A3C2	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A3C3	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A3C4	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A3C5	0180–3713	1	CAP–FXD 2.2uF ±10% 25 V TA	04200	173D225X9025V
A3C6	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A3C7	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A3C8	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A3C9	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A3C10	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A3C11	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A3C12	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A3C13	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A3C14	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A3C15	0180–4129	1	CAP–FXD 1uF ±10% 35 V TA	04200	173D105X9035V
A3C16	0180–4082	1	CAP–FXD 2.2uF ±10% 125 V TA	12340	T110B225K125AS
A3C17	0180–4129	1	CAP–FXD 1uF ±10% 35 V TA	04200	173D105X9035V
A3C18	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A3C19	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A3C20	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A3C21	0180–3634	1	CAP–FXD 2200uF ±20% 10 V AL–ELCTLT	00493	SR10VB222M16X15
A3C22	0180–3634	1	CAP–FXD 2200uF ±20% 10 V AL–ELCTLT	00493	SR10VB222M16X15
A3C23	0180–3713	1	CAP–FXD 2.2uF ±10% 25 V TA	04200	173D225X9025V
A3C24	0180–3634	1	CAP–FXD 2200uF ±20% 10 V AL–ELCTLT	00493	SR10VB222M16X15
A3C25	0180–3634	1	CAP–FXD 2200uF ±20% 10 V AL–ELCTLT	00493	SR10VB222M16X15
A3CR1	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A3CR2	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A3CR3	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A3CR4	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A3CR5	1901–1214	1	DIODE–PWR RECT 600V 1A 50NS	02037	MUR160
A3CR6	1901–1214	1	DIODE–PWR RECT 600V 1A 50NS	02037	MUR160
A3CR7	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A3CR8	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A3DS1	1990–0670	1	LED–LAMP LUM–INT=1MCD IF=20MA–MAX BVR=5V	01542	HLMP–6400
A3DS2	1990–0670	1	LED–LAMP LUM–INT=1MCD IF=20MA–MAX BVR=5V	01542	HLMP–6400
A3DS3	1990–0670	1	LED–LAMP LUM–INT=1MCD IF=20MA–MAX BVR=5V	01542	HLMP–6400
A3DS4	1990–0670	1	LED–LAMP LUM–INT=1MCD IF=20MA–MAX BVR=5V	01542	HLMP–6400
A3DS5	1990–0670	1	LED–LAMP LUM–INT=1MCD IF=20MA–MAX BVR=5V	01542	HLMP–6400
A3DS6	1990–0670	1	LED–LAMP LUM–INT=1MCD IF=20MA–MAX BVR=5V	01542	HLMP–6400
A3DS7	1990–0678	1	LED–LAMP LUM–INT=800UCD IF=30MA–MAX	01542	HLMP–6500 (SEL)
A3DS8	1990–0678	1	LED–LAMP LUM–INT=800UCD IF=30MA–MAX	01542	HLMP–6500 (SEL)
A3J1	1252–1744	1	CONN–POST TYPE .100–PIN–SPCG 5–CONT	01380	103414–3
A3J2	1252–2829	1	CONN–POST TYPE .100–PIN–SPCG 26–CONT	04726	3429–5203
A3J3	1252–2370	1	CONN–POST TYPE .100–PIN–SPCG 34–CONT	04726	3431–6203
A3J4	1252–0272	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	04726	3433–6203
A3J5	1252–2201	1	CONN–POST TYPE .100–PIN–SPCG 6–CONT	02946	69168–106
A3L1	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A3L2	9140–1351	1	INDUCTOR 25UH +20% –12%	01869	92100K
A3L3	9140–1351	1	INDUCTOR 25UH +20% –12%	01869	92100K
A3L4	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB

Replaceable Parts List for A3 Front Panel Processor Assembly, Part Number 08360–60003 (2 of 3)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3MP2	08360–00021	1			
A3MP3	0535–0031	2	NUT–HEX W/LKWR M3 X 0.5 2.4MM–THK	06691	
A3MP4	0570–0639	2	STD–PRS–IN M3 X 0.5 12.000 PH–BRZ	03981	KFH–M3–12–ET
A3MP5	0340–1170	3	INSULATOR–XSTR THRM–CNDCT	05447	K10AC–58
A3MP6	0515–0367	3	SCREW–MACHINE ASSEMBLY M2.5 X 0.45	05610	
A3MP7	3050–1309	3	WASHER–SHLDR NM .1–IN–ID .234–IN–OD NYL	07041	5662–N–137–040–100
A3Q1	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A3Q2	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A3Q3	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A3Q4	1855–0548	1	TRANSISTOR MOSFET N–CHAN E–MODE TO–220	06121	BUZ71A
A3Q5	1855–0548	1	TRANSISTOR MOSFET N–CHAN E–MODE TO–220	06121	BUZ71A
A3Q6	1855–0548	1	TRANSISTOR MOSFET N–CHAN E–MODE TO–220	06121	BUZ71A
A3R1	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R2	0698–0082	1	RESISTOR 464 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R3	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R4	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R5	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R6	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R7	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R8	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R9	0757–0462	1	RESISTOR 75K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R10	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R11	0757–0288	1	RESISTOR 9.09K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R12	0757–0464	1	RESISTOR 90.9K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R13	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R14	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R15	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R16	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R17	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R18	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R19	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R20	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R21	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R22	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R23	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R24	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R25	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R26	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R27	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R28	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R29	0811–3768	1	RESISTOR .04 ±3% 3W PWI TC=0±90	05524	LVR–3
A3R30	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R31	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R32	0757–0458	1	RESISTOR 51.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R33	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R34	0757–0458	1	RESISTOR 51.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R35	0811–3730	1	RESISTOR .07 ±3% 3W MFS TC=0±90	05524	LVR–3
A3R36	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R37	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R38	0698–3160	1	RESISTOR 31.6K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A3 Front Panel Processor Assembly, Part Number 08360–60003 (3 of 3)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A3R39	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R40	0698–0082	1	RESISTOR 464 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3R41	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A3T1	9100–4872	1	TRANSFORMER–SWITCHING; PRI IND: 12.1 H	12918	5181–0141
A3T2	9100–4871	1	TRANSFORMER–SWITCHING; PRI IND: 13.25 H	12918	5181–0142
A3TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A3TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A3TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A3TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A3TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A3TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A3TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A3TP11	1460–2201	1	SPRING RADIAL TEST POINT		
A3TP12	1460–2201	1	SPRING RADIAL TEST POINT		
A3TP13	1460–2201	1	SPRING RADIAL TEST POINT		
A3TP14	1460–2201	1	SPRING RADIAL TEST POINT		
A3TP15	1460–2201	1	SPRING RADIAL TEST POINT		
A3TP16	1460–2201	1	SPRING RADIAL TEST POINT		
A3U1	1813–0878	1	CLOCK–OSCILLATOR–XTAL 11.0592–MHZ 0.01%	09235	F5C–11.0592MHZ
A3U2	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A3U3	1820–2922	1	IC GATE CMOS/HC NAND QUAD 2–INP	02037	MC74HC00N
A3U4	1810–0707	1	NETWORK–RES 10–SIP 470.0 OHM X 5	05524	MSP10A03–471G
A3U5	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A3U6	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A3U7	1820–0668	1	IC DRVR TTL BUS HEX	01698	SN7407N
A3U8	1810–0203	1	NETWORK–RES 8–SIP 470.0 OHM X 7	02483	750–81
A3U9	1820–2177	1	IC–INPUT/OUTPUT EXPANDER	03811	P8243
A3U10	08360–80007	1	IC – MICRO CONTROLLER	28480	08360–80007
A3U11	08360–80007	1	IC – MICRO CONTROLLER	28480	08360–80007
A3U12	1820–3185	1	IC SCHMITT–TRIG CMOS/HC INV HEX	03406	MM74HC14N
A3U13	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A3U14	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A3U15	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A3U16	1820–3183	1	IC GATE CMOS/HC NAND QUAD 2–INP	02037	MC74HC03N
A3U17	1820–2924	1	IC GATE CMOS/HC NOR QUAD 2–INP	02037	MC74HC02N
A3U18	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A3U19	1820–3330	1	IC TRANSCEIVER CMOS/HC BUS OCTL	03406	MM74HC245AN
A3U20	1826–1448	1	IC V RGLTR–SWG 4.85/5.15V 18–DIP–P PKG	03793	SG3526N
A3U21	1826–1448	1	IC V RGLTR–SWG 4.85/5.15V 18–DIP–P PKG	03793	SG3526N
A3X1	1200–1254	2	SOCKET–IC–DIP 40–CONT DIP DIP–SLDR	01380	2–641616–2



NOTES: UNLESS OTHERWISE SPECIFIED

1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
   SOLDERING PER A-5951-1585-1 (741.070F)
   REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

A3 Front Panel Processor

08360-60003

FUNCTION	DEVICE ADDRESS	RD	WR
KEYBOARD DATA	600		
KEYBOARD STATUS	601		
DISPLAY DATA	602		
DISPLAY CMD	603		
SMI	604		

Ⓐ CRYSTAL CLOCK

Ⓑ DIGITAL INTERFACE

Ⓒ RPG INPUT

Ⓓ POWER SUPPLIES AND FILTER

Ⓔ DISPLAY INTERFACE

Ⓕ FRONT PANEL PROCESSOR

Ⓗ INSTRUMENT PRESET

Ⓙ DISPLAY POWER SUPPLY

Ⓚ ANNUNCIATORS

NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
C25, CR9, DS8, J5 L4, Q6, R41, T2, TP16, U21	TP4, TP6, TP8

A3 Front Panel Processor

08360-60003

(SHEET 1 of 1)

Schematic Package for 08360-60010 A4 Fractional-N

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Replaceable Parts List for A4 Fractional−N Assembly, Part Number 08360−60010 (1 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4	08360−60010	1	BOARD AY−FRAC N	28480	08360−60010
A4C1	0160−4830	1	CAP−FXD 2200pF ±10% 100 V CER X7R	02010	SA101C222KAAH
A4C2	0160−4830	1	CAP−FXD 2200pF ±10% 100 V CER X7R	02010	SA101C222KAAH
A4C3	0160−4084	1	CAP−FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C4	0160−4084	1	CAP−FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C5	0160−4801	1	CAP−FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A4C6	0160−4835	1	CAP−FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A4C7	0160−4084	1	CAP−FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C8	0160−4084	1	CAP−FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C9	0160−4835	1	CAP−FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A4C10	0160−4806	1	CAP−FXD 39pF ±5% 100 V CER C0G	02010	SA102A390JAAH
A4C11	0160−4084	1	CAP−FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C12	0180−4134	1	CAP−FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A4C13	0160−4801	1	CAP−FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A4C14	0160−4801	1	CAP−FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A4C15	0160−4084	1	CAP−FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C16	0180−4134	1	CAP−FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A4C17	0160−4084	1	CAP−FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C18	0160−4084	1	CAP−FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C19	0180−4134	1	CAP−FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A4C20	0160−4084	1	CAP−FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C21	0180−4135	1	CAP−FXD 33uF ±10% 10 V TA	04200	173D336X9010X
A4C22	0160−4814	1	CAP−FXD 150pF ±5% 100 V CER C0G	02010	SA101A151JAAH
A4C23	0180−4135	1	CAP−FXD 33uF ±10% 10 V TA	04200	173D336X9010X
A4C24	0160−4084	1	CAP−FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C25	0160−4535	1	CAP−FXD 1uF ±10% 50 V CER X7R	09939	RPE113−130X7R105K50V
A4C26	0180−3849	1	CAP−FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A4C27	0160−4835	1	CAP−FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A4C28	0160−4808	1	CAP−FXD 470pF ±5% 100 V CER C0G	02010	SA101A471JAAH
A4C29	0160−4808	1	CAP−FXD 470pF ±5% 100 V CER C0G	02010	SA101A471JAAH
A4C30	0160−4835	1	CAP−FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A4C31	0180−3849	1	CAP−FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A4C32	0180−3849	1	CAP−FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A4C33	0180−3849	1	CAP−FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A4C34	0160−4801	1	CAP−FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A4C37	0160−4084	1	CAP−FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C38	0180−3849	1	CAP−FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A4C39	0160−4084	1	CAP−FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C40	0160−4084	1	CAP−FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C41	0180−3831	1	CAP−FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A4C42	0160−4084	1	CAP−FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C43	0160−4084	1	CAP−FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C44	0180−3831	1	CAP−FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A4C45	0180−3831	1	CAP−FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A4C46	0160−4835	1	CAP−FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A4C47	0160−4835	1	CAP−FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A4C48	0180−4135	1	CAP−FXD 33uF ±10% 10 V TA	04200	173D336X9010X
A4C49	0160−4835	1	CAP−FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A4C50	0160−4084	1	CAP−FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C51	0180−4132	1	CAP−FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A4C52	0160−4835	1	CAP−FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A4C53	0160−4084	1	CAP−FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH

Replaceable Parts List for A4 Fractional–N Assembly, Part Number 08360–60010 (2 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4C54	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C55	0160–4804	1	CAP–FXD 56pF ±5% 100 V CER C0G	02010	SA102A560JAAH
A4C56	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	02010	SA102A100JAAH
A4C57	0160–4814	1	CAP–FXD 150pF ±5% 100 V CER C0G	02010	SA101A151JAAH
A4C58	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C60	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C61	0160–4653	1	CAP–FXD 0.1uF ±5% 100 V POLYP–MET	05176	HEW–505
A4C62	0160–6716	1	CAP–FXD 1200pF ±2.5% 100 V POLYP–FL	06121	B33074–A1122–H6
A4C63	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A4C64	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	02010	SA102A100JAAH
A4C65	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A4C66	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A4C67	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A4C69	0160–4830	1	CAP–FXD 2200pF ±10% 100 V CER X7R	02010	SA101C222KAAH
A4C70	0160–5880	1	CAP–FXD 2200pF ±1% 50 V CER C0G	02010	SA205A222FAAH
A4C71	0160–5880	1	CAP–FXD 2200pF ±1% 50 V CER C0G	02010	SA205A222FAAH
A4C72	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A4C73	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A4C74	0160–6359	1	CAP–FXD 0.22uF ±5% 100 V POLYP–MET	05176	X363UW–.22–500VDC
A4C75	0160–4830	1	CAP–FXD 2200pF ±10% 100 V CER X7R	02010	SA101C222KAAH
A4C76	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A4C77	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A4C78	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A4C79	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A4C80	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A4C81	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A4C82	0160–4808	1	CAP–FXD 470pF ±5% 100 V CER C0G	02010	SA101A471JAAH
A4C83	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A4C84	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A4C85	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A4C86	0160–4830	1	CAP–FXD 2200pF ±10% 100 V CER X7R	02010	SA101C222KAAH
A4C87	0160–4830	1	CAP–FXD 2200pF ±10% 100 V CER X7R	02010	SA101C222KAAH
A4C88	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A4C89	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A4C90	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A4C91	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A4C92	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A4C93	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A4C94	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A4C95	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A4C96	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A4C97	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A4C98	0180–4135	1	CAP–FXD 33uF ±10% 10 V TA	04200	173D336X9010X
A4C99	0180–4135	1	CAP–FXD 33uF ±10% 10 V TA	04200	173D336X9010X
A4C100	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A4C101	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A4C105	0180–4135	1	CAP–FXD 33uF ±10% 10 V TA	04200	173D336X9010X
A4C106	0180–4135	1	CAP–FXD 33uF ±10% 10 V TA	04200	173D336X9010X
A4C107	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A4C108	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A4C109	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A4C110	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X

Replaceable Parts List for A4 Fractional–N Assembly, Part Number 08360–60010 (3 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4C111	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A4C112	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A4C113	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A4C114	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A4C115	0160–4830	1	CAP–FXD 2200pF ±10% 100 V CER X7R	02010	SA101C222KAAH
A4C116	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A4C119	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A4C120	0160–4535	1	CAP–FXD 1uF ±10% 50 V CER X7R	09939	RPE113–130X7R105K50V
A4C121	0160–4830	1	CAP–FXD 2200pF ±10% 100 V CER X7R	02010	SA101C222KAAH
A4CR1	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A4CR2	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A4CR3	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A4CR4	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR14	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A4CR15	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A4CR16	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A4CR17	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A4CR18	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A4CR19	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A4CR20	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A4CR21	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A4CR22	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR23	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR24	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR25	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR26	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR27	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR28	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR30	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A4CR31	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR32	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR33	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR35	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A4CR36	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A4CR37	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR40	0122–0167	1	DIODE–VVC 29PF 10% C 3/C25–MIN=5	06121	BB409
A4CR41	0122–0167	1	DIODE–VVC 29PF 10% C 3/C25–MIN=5	06121	BB409
A4CR42	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4CR43	1901–1068	1	DIODE–SCHOTTKY SM SIG	02062	5082–5541
A4CR44	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A4CR45	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A4J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A4J2	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A4L1	9140–0460	1	COIL–VAR 351NH–429NH Q=120 PC–MTG	08123	HP.39T

Replaceable Parts List for A4 Fractional–N Assembly, Part Number 08360–60010 (4 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4L2	9140–0264	1	INDUCTOR RF–CH–MLD 1.2UH ±5%	03273	15M121J
A4L3	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A4L4	9140–1351	1	INDUCTOR 25UH +20% –12%	01869	92100K
A4L5	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A4L6	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A4L7	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A4L8	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A4L9	9140–1351	1	INDUCTOR 25UH +20% –12%	01869	92100K
A4MP2	0403–0621	1	EXTR–PC BD BLK NYL .062–IN–BD–THKNS	02123	91–2–BLACK–5
A4MP3	0403–0622	1	EXTR–PC BD YEL NYL .062–IN–BD–THKNS	02123	91–2–YELLOW–4
A4MP4	2260–0001	1	NUT–HEX–DBL–CHAM 4–40–THD .094–IN–THK	04939	
A4MP5	3050–0874	1	WASHER–SPR BLVL NO. 4 .1195–IN–ID	02037	B52200F006
A4MP6	1205–0644	1	HEAT SINK PLSTC–PWR–CS	02608	6084B–SE–3
A4MP7	08360–20034	1	RF SHIELD – BACK	28480	08360–20034
A4MP8	08360–20035	1	RF SHIELD – FRONT	28480	08360–20035
A4MP9	0515–1410	8	SCREW–MACHINE ASSEMBLY M3 X 0.5 20MM–LG	05610	
A4MP10	8160–0648	7	RFI ROUND STRIP CNDCT–ELSTMR .07–IN–OD	02923	10–04–1687–1285
A4MP11	6040–0454		HEAT SINK COMPOUND SYNTH/REFRC	07477	52022lJ
A4P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A4P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A4Q1	1854–0907	1	TRANSISTOR NPN 2N2484 TO–18 PD=360MW	02037	
A4Q2	1854–0907	1	TRANSISTOR NPN 2N2484 TO–18 PD=360MW	02037	
A4Q3	1854–0907	1	TRANSISTOR NPN 2N2484 TO–18 PD=360MW	02037	
A4Q4	1855–0232	1	TRANSISTOR–JFET DUAL 2N5565 N–CHAN	02883	2N5565
A4Q5	1853–0451	1	TRANSISTOR PNP 2N3799 SI TO–18 PD=360MW	02037	
A4Q6	1854–0907	1	TRANSISTOR NPN 2N2484 TO–18 PD=360MW	02037	
A4Q7	1854–0907	1	TRANSISTOR NPN 2N2484 TO–18 PD=360MW	02037	
A4Q8	1853–0451	1	TRANSISTOR PNP 2N3799 SI TO–18 PD=360MW	02037	
A4Q9	1855–0232	1	TRANSISTOR–JFET DUAL 2N5565 N–CHAN	02883	2N5565
A4Q10	1854–0809	1	TRANSISTOR NPN 2N2369A SI TO–18 PD=360MW	02037	2N2369A
A4Q11	1854–0809	1	TRANSISTOR NPN 2N2369A SI TO–18 PD=360MW	02037	2N2369A
A4Q12	1853–0007	1	TRANSISTOR PNP 2N3251 SI TO–18 PD=360MW	02037	2N3251
A4Q13	1854–0809	1	TRANSISTOR NPN 2N2369A SI TO–18 PD=360MW	02037	2N2369A
A4Q14	1855–0386	1	TRANSISTOR J–FET 2N4392 N–CHAN D–MODE	02037	2N4392
A4Q15	1855–0278	1	TRANSISTOR J–FET 2N5116 P–CHAN D–MODE	03406	2N5116
A4Q16	1853–0635	1	TRANSISTOR–DUAL PNP TO–71 PD=400MW		
A4Q17	1854–0529	1	TRANSISTOR–DUAL NPN PD=750MW	11699	CEN672
A4Q18	1855–0386	1	TRANSISTOR J–FET 2N4392 N–CHAN D–MODE	02037	2N4392
A4Q19	1853–0213	1	TRANSISTOR PNP 2N4236 SI TO–5 PD=1W	02037	2N4236
A4Q20	1855–0423	1	TRANSISTOR MOSFET N–CHAN E–MODE TO–237	02883	VN10KM
A4Q21	1853–0213	1	TRANSISTOR PNP 2N4236 SI TO–5 PD=1W	02037	2N4236
A4Q22	1855–0423	1	TRANSISTOR MOSFET N–CHAN E–MODE TO–237	02883	VN10KM
A4Q23	1855–0386	1	TRANSISTOR J–FET 2N4392 N–CHAN D–MODE	02037	2N4392
A4Q24	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A4Q25	1855–0386	1	TRANSISTOR J–FET 2N4392 N–CHAN D–MODE	02037	2N4392
A4Q26	1854–0907	1	TRANSISTOR NPN 2N2484 TO–18 PD=360MW	02037	
A4Q27	1854–0907	1	TRANSISTOR NPN 2N2484 TO–18 PD=360MW	02037	
A4Q28	1854–0401	1	TRANSISTOR NPN SI TO–72 PD=200MW	02037	
A4Q29	1854–0401	1	TRANSISTOR NPN SI TO–72 PD=200MW	02037	
A4Q30	1853–0451	1	TRANSISTOR PNP 2N3799 SI TO–18 PD=360MW	02037	
A4Q31	1854–0401	1	TRANSISTOR NPN SI TO–72 PD=200MW	02037	

Replaceable Parts List for A4 Fractional–N Assembly, Part Number 08360–60010 (5 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4Q32	1854–0401	1	TRANSISTOR NPN SI TO–72 PD=200MW	02037	
A4Q33	1854–0401	1	TRANSISTOR NPN SI TO–72 PD=200MW	02037	
A4Q34	1853–0398	1	TRANSISTOR PNP SI PD=15W FT=65MHZ	02037	MJE 210
A4R1	0698–7212	1	RESISTOR 100 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R3	0698–7236	1	RESISTOR 1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R4	0698–7256	1	RESISTOR 6.81K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R5	0698–7251	1	RESISTOR 4.22K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R6	0698–7236	1	RESISTOR 1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R7	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A4R8	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A4R9	0698–7204	1	RESISTOR 46.4 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R10	0698–7240	1	RESISTOR 1.47K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R11	0698–7260	1	RESISTOR 10K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R12	0698–7212	1	RESISTOR 100 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R13	0698–7220	1	RESISTOR 215 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R14	0698–7206	1	RESISTOR 56.2 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R15	0698–7206	1	RESISTOR 56.2 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R16	0698–7224	1	RESISTOR 316 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R17	0698–7224	1	RESISTOR 316 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R18	0698–7213	1	RESISTOR 110 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R19	0698–7254	1	RESISTOR 5.62K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R20	0698–7268	1	RESISTOR 21.5K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R21	0698–7262	1	RESISTOR 12.1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R22	0698–7251	1	RESISTOR 4.22K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R23	0698–7251	1	RESISTOR 4.22K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R24	0698–7204	1	RESISTOR 46.4 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R25	0698–7244	1	RESISTOR 2.15K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R26	0699–0073	1	RESISTOR 10M ±1% .125W TF TC=0±100	06118	MK2
A4R27	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A4R28	0698–7260	1	RESISTOR 10K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R30	2100–3296	1	RESISTOR–TRMR 1K 10% TKF TOP–ADJ 17–TRN	04568	67WR
A4R31	2100–3097	1	RESISTOR–TRMR 100K 10% TKF TOP–ADJ	04568	67WR
A4R32	0698–7260	1	RESISTOR 10K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R33	0698–7202	1	RESISTOR 38.3 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R35	0698–7228	1	RESISTOR 464 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R36	0698–7253	1	RESISTOR 5.11K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R37	0698–7256	1	RESISTOR 6.81K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R38	0698–7248	1	RESISTOR 3.16K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R40	0698–7268	1	RESISTOR 21.5K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R41	0698–7262	1	RESISTOR 12.1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R42	0698–7236	1	RESISTOR 1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R43	0698–7206	1	RESISTOR 56.2 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R44	0698–7260	1	RESISTOR 10K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R45	0811–1732	1	RESISTOR 1 ±5% 3W PWI TC=0±50	05524	CW–2B–39
A4R46	0698–7205	1	RESISTOR 51.1 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R47	0698–7205	1	RESISTOR 51.1 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R49	0698–7244	1	RESISTOR 2.15K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R51	0698–7206	1	RESISTOR 56.2 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R52	0698–7231	1	RESISTOR 619 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R53	0698–7238	1	RESISTOR 1.21K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R54	0698–7204	1	RESISTOR 46.4 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R55	0698–7236	1	RESISTOR 1K ±1% .05W TF TC=0±100	05524	CMF–50–2

Replaceable Parts List for A4 Fractional–N Assembly, Part Number 08360–60010 (6 of 8)

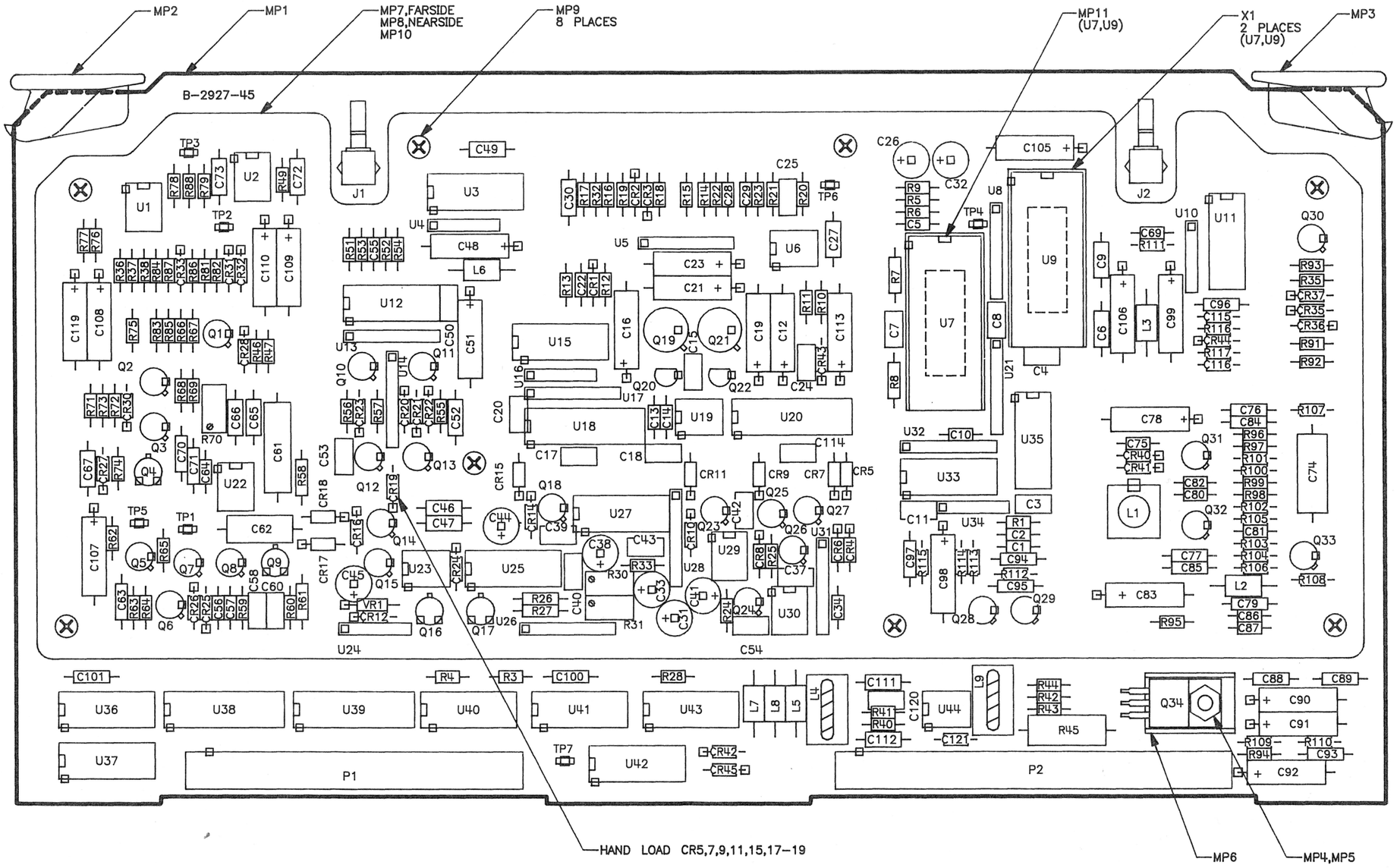
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4R56	0698–7234	1	RESISTOR 825 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R57	0698–7196	1	RESISTOR 21.5 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R58	0698–4442	1	RESISTOR 4.42K ±1% .125W TF TC=0±100	05524	CMF–55–1
A4R59	0698–7235	1	RESISTOR 909 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R60	0698–7222	1	RESISTOR 261 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R61	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A4R62	0698–7260	1	RESISTOR 10K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R63	0698–7236	1	RESISTOR 1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R64	0698–7251	1	RESISTOR 4.22K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R65	0698–7196	1	RESISTOR 21.5 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R66	0698–7212	1	RESISTOR 100 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R67	0698–7212	1	RESISTOR 100 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R68	0698–7240	1	RESISTOR 1.47K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R69	0698–7240	1	RESISTOR 1.47K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R70	2100–3296	1	RESISTOR–TRMR 1K 10% TKF TOP–ADJ 17–TRN	04568	67WR
A4R71	0698–7254	1	RESISTOR 5.62K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R72	0698–7231	1	RESISTOR 619 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R73	0698–7231	1	RESISTOR 619 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R74	0698–7224	1	RESISTOR 316 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R75	0698–7231	1	RESISTOR 619 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R76	0698–7260	1	RESISTOR 10K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R77	0698–7268	1	RESISTOR 21.5K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R78	0698–7262	1	RESISTOR 12.1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R79	0698–7260	1	RESISTOR 10K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R81	0698–7268	1	RESISTOR 21.5K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R82	0698–7254	1	RESISTOR 5.62K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R83	0698–7244	1	RESISTOR 2.15K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R84	0698–7241	1	RESISTOR 1.62K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R85	0698–7267	1	RESISTOR 19.6K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R86	0698–7256	1	RESISTOR 6.81K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R87	0698–7267	1	RESISTOR 19.6K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R88	0698–7240	1	RESISTOR 1.47K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R91	0698–7241	1	RESISTOR 1.62K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R92	0698–7241	1	RESISTOR 1.62K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R93	0698–7240	1	RESISTOR 1.47K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R94	0698–7240	1	RESISTOR 1.47K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R95	0698–7244	1	RESISTOR 2.15K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R96	0698–7227	1	RESISTOR 422 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R97	0698–7212	1	RESISTOR 100 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R98	0698–7212	1	RESISTOR 100 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R99	0698–7260	1	RESISTOR 10K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R100	0698–7205	1	RESISTOR 51.1 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R101	0698–7236	1	RESISTOR 1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R102	0698–7236	1	RESISTOR 1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R103	0698–7231	1	RESISTOR 619 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R104	0698–7212	1	RESISTOR 100 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R105	0698–7244	1	RESISTOR 2.15K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R106	0698–7244	1	RESISTOR 2.15K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R107	0698–7226	1	RESISTOR 383 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R108	0698–7248	1	RESISTOR 3.16K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R109	0698–7220	1	RESISTOR 215 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R110	0698–7220	1	RESISTOR 215 ±1% .05W TF TC=0±100	05524	CMF–50–2

Replaceable Parts List for A4 Fractional–N Assembly, Part Number 08360–60010 (7 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4R111	0698–7244	1	RESISTOR 2.15K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R112	0698–7244	1	RESISTOR 2.15K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R113	0698–7213	1	RESISTOR 110 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R114	0698–7220	1	RESISTOR 215 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R115	0698–7226	1	RESISTOR 383 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R116	0698–7212	1	RESISTOR 100 ±1% .05W TF TC=0±100	05524	CMF–50–2
A4R117	0698–7260	1	RESISTOR 10K ±1% .05W TF TC=0±100	05524	CMF–50–2
A4TP1	0360–2359	1	TERMINAL–TEST POINT .230IN ABOVE	04055	230.100
A4TP2	0360–2359	1	TERMINAL–TEST POINT .230IN ABOVE	04055	230.100
A4TP3	0360–2359	1	TERMINAL–TEST POINT .230IN ABOVE	04055	230.100
A4TP4	0360–2359	1	TERMINAL–TEST POINT .230IN ABOVE	04055	230.100
A4TP5	0360–2359	1	TERMINAL–TEST POINT .230IN ABOVE	04055	230.100
A4TP6	0360–2359	1	TERMINAL–TEST POINT .230IN ABOVE	04055	230.100
A4TP7	0360–2359	1	TERMINAL–TEST POINT .230IN ABOVE	04055	230.100
A4U1	1826–0412	1	IC COMPARATOR PRCN DUAL 8 PIN DIP–P	03406	LM393N
A4U2	1826–1081	1	IC OP AMP PRCN 8 PIN DIP–P	03406	LF411ACN
A4U3	1820–0802	1	IC GATE ECL NOR QUAD 2–INP	02037	MC10102P
A4U4	1810–0364	1	NETWORK–RES 6–SIP 470.0 OHM X 5	02483	750–61
A4U5	1810–0689	1	NETWORK–RES 8–SIP 10.0 OHM X 4	02483	750–83–R–10
A4U6	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A4U7	1SD6–0001	1	IC – FRAC N CONTROL	28480	1SD6–0001
A4U8	1810–0302	1	NETWORK–RES 8–SIP 47.0 OHM X 4	02483	750–83–R47
A4U9	1DK9–0001	1	IC – ÷N COUNTER	28480	1DK9–0001
A4U10	1810–0364	1	NETWORK–RES 6–SIP 470.0 OHM X 5	02483	750–61
A4U11	1820–1308	1	IC RCVR ECL LINE RCVR TPL 2–INP	02037	MC10116L
A4U12	1820–2849	1	IC FF ECL/10KH D–M/S POS–EDGE–TRIG COM	02037	MC10H131P
A4U13	1810–0203	1	NETWORK–RES 8–SIP 470.0 OHM X 7	02483	750–81
A4U14	1810–0302	1	NETWORK–RES 8–SIP 47.0 OHM X 4	02483	750–83–R47
A4U15	1858–0077	1	TRANSISTOR ARRAY 14–PIN PLSTC TO–116	02037	MPQ2222P
A4U16	1810–0364	1	NETWORK–RES 6–SIP 470.0 OHM X 5	02483	750–61
A4U17	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A4U18	1DL1–0001	1	IC – API RESYNCHRONIZER	28480	1DL1–0001
A4U19	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A4U20	1DL1–0002	1	IC – API RESYNCHRONIZER	28480	1DL1–0001
A4U21	1810–0370	1	NETWORK–RES 8–SIP 220.0 OHM X 7	02483	750–81
A4U22	1826–1844	1	IC OP AMP HS 8 PIN DIP–C	02180	OP–42FZ
A4U23	1826–1844	1	IC OP AMP HS 8 PIN DIP–C	02180	OP–42FZ
A4U24	1810–0775	1	NETWORK–RES 6–SIP 1.0K OHM X 3	02483	750–63–R1.0K
A4U25	1QJ3–0103	1	NETWORK – RES – CUSTOM	28480	1QJ3 – 0103
A4U26	1810–0709	1	NETWORK–RES 8–SIP 82.0 OHM X 4	02483	750–83–R82
A4U27	1826–1150	1	IC OP AMP INSTM DUAL 14 PIN DIP–C	02180	OP–227GY
A4U28	1810–0347	1	NETWORK–RES 8–SIP 2.2K OHM X 4	02483	750–83–R2.2K
A4U29	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A4U30	1826–1081	1	IC OP AMP PRCN 8 PIN DIP–P	03406	LF411ACN
A4U31	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A4U32	1810–0302	1	NETWORK–RES 8–SIP 47.0 OHM X 4	02483	750–83–R47
A4U33	1820–2849	1	IC FF ECL/10KH D–M/S POS–EDGE–TRIG COM	02037	MC10H131P
A4U34	1810–0364	1	NETWORK–RES 6–SIP 470.0 OHM X 5	02483	750–61
A4U35	1820–1308	1	IC RCVR ECL LINE RCVR TPL 2–INP	02037	MC10116L
A4U36	1820–3182	1	IC RGTR CMOS/HC D–TYPE 4–BIT	02037	MC74HC173N
A4U37	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A4U38	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N

Replaceable Parts List for A4 Fractional–N Assembly, Part Number 08360–60010 (8 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A4U39	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A4U40	1820–3081	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG	02037	MC74HC74N
A4U41	1820–3097	1	IC GATE CMOS/HC AND QUAD 2–INP	03406	MM74HC08N
A4U42	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A4U43	1820–3794	1	IC CNTR CMOS/HC BIN UP/DOWN SYNCHRO	03406	MM74HC191N
A4U44	1826–1081	1	IC OP AMP PRCN 8 PIN DIP–P	03406	LF411ACN
A4VR1	1902–0625	1	DIODE–ZNR 1N829 6.2V 5% DO–35 PD=.4W	02037	1N829
A4X1	1200–1425	2	SOCKET–IC–DIP 28–CONT DIP DIP–SLDR	06665	SEP–20269–02



NOTES: UNLESS OTHERWISE SPECIFIED

1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
   SOLDERING PER A-5951-1585-1 (741.070F)
   REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

A4 Fractional-N

08360-60010

Ⓐ VARACTOR CLAMP

Ⓑ 30-60 MHz VCO

Ⓒ COUNTER BUFFER

Ⓓ OUTPUT BUFFER

Ⓔ FRAC-N CONTROL

Ⓕ DIVIDE BY N COUNTER

Ⓖ DIGITAL INTERFACE

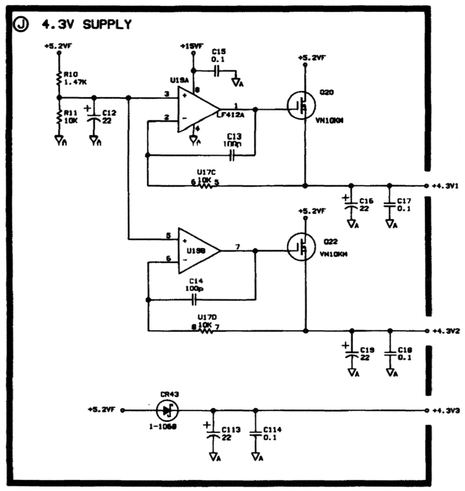
Ⓗ SELF TEST MUX

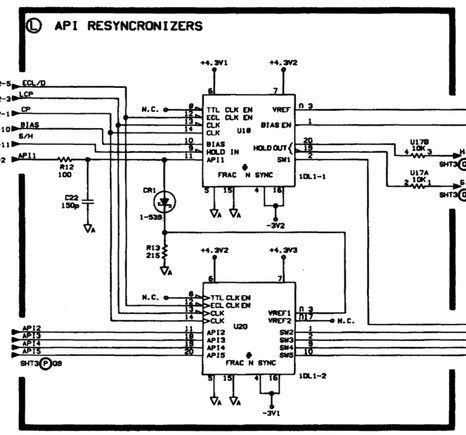
Ⓘ POWER SUPPLIES

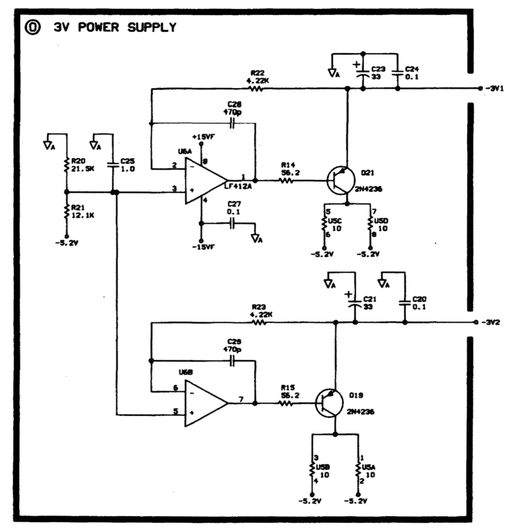
NOTES: UNLESS OTHERSPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

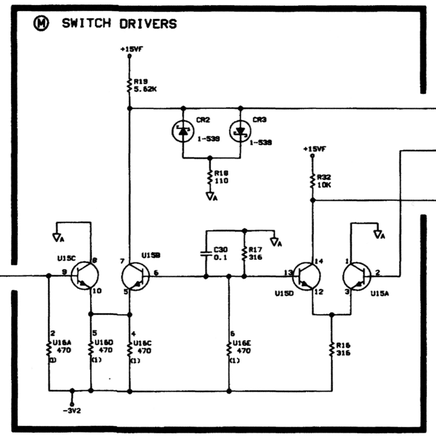
REFERENCE DESIGNATORS	
LAST USED	NOT USED
C121	C35, 36, 58, 68, C102-104, 117, 118
CR45	CR13, 28, 34, 37-38
J2	
L8	
P2	
Q34	
R117	R2, 28, 34, 38, 48, R50, 80, 88, 90
TP7	
U44	
VR1	

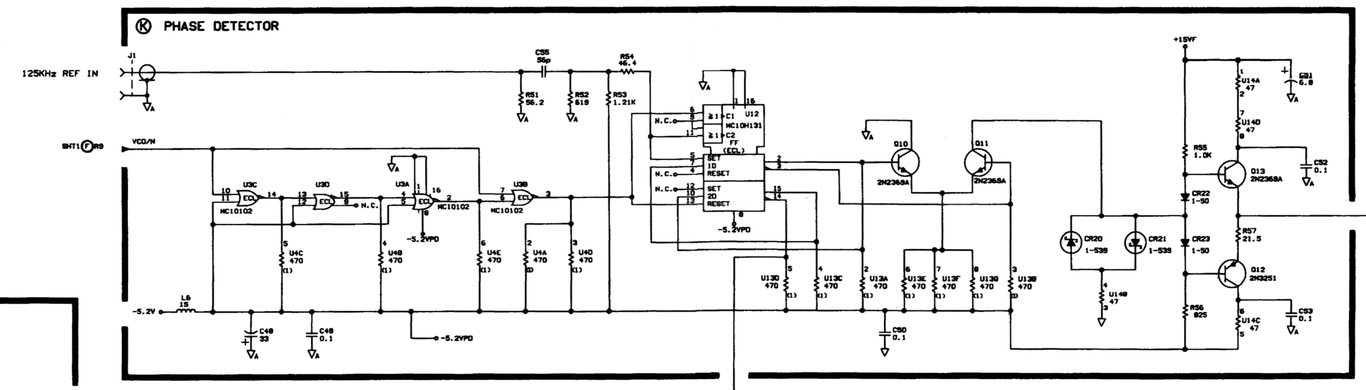
A4 Fractional-N
08360-60010
(SHEET 1 of 3)

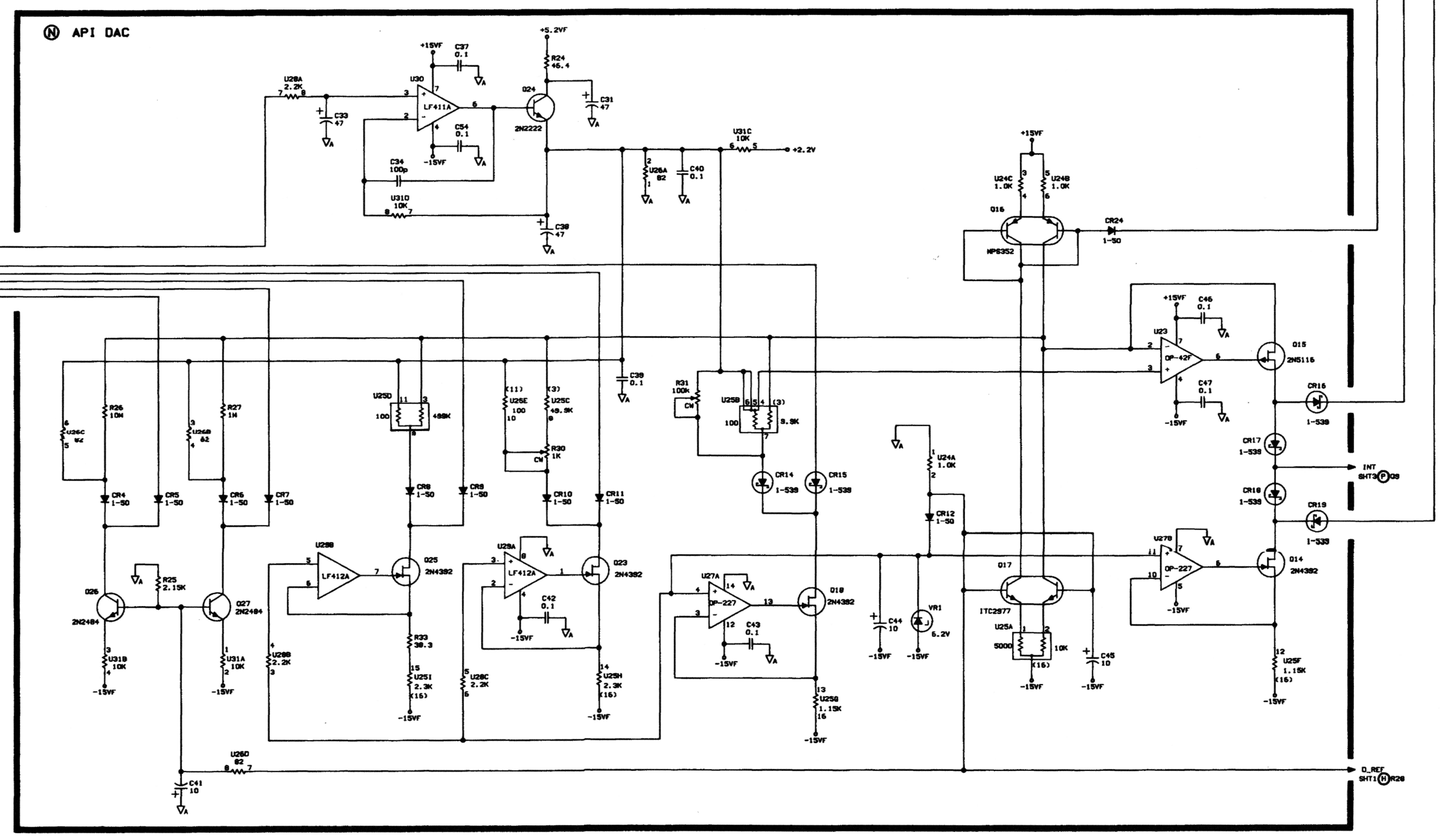






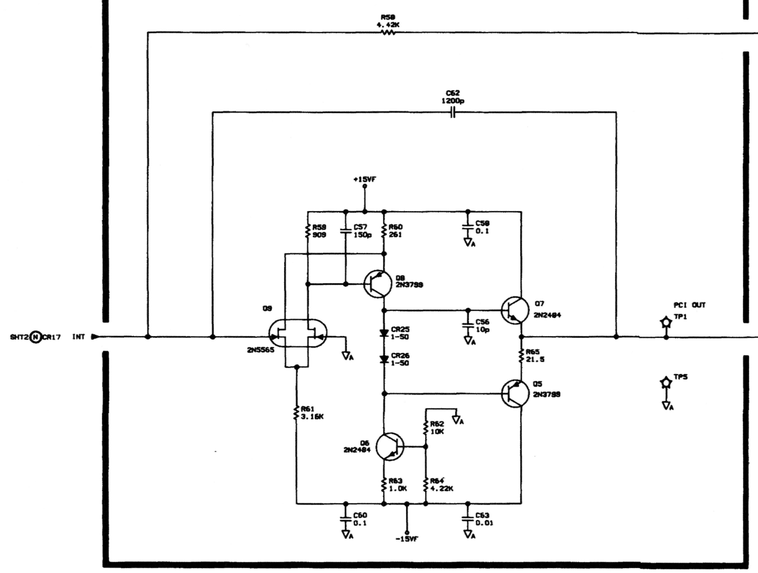




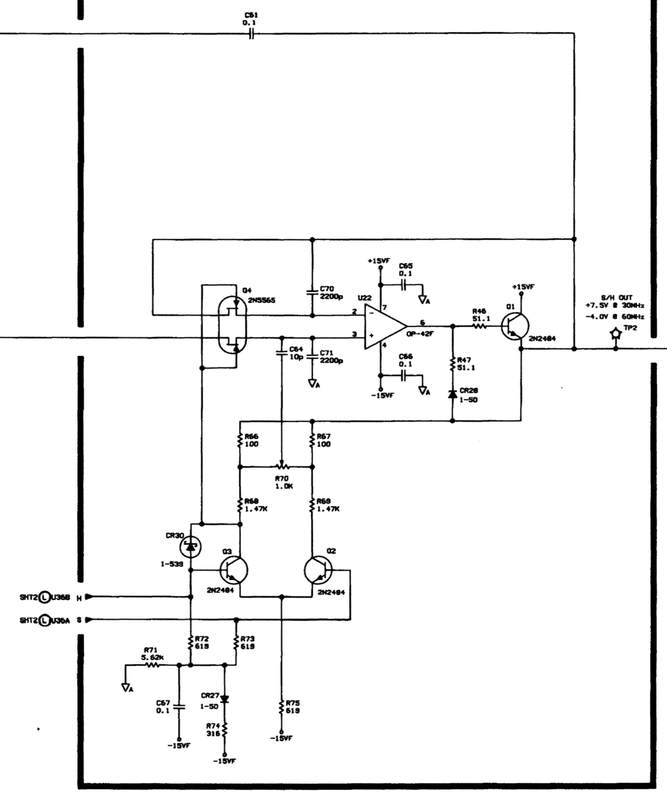


A4 Fractional-N
08360-60010
(SHEET 2 of 3)

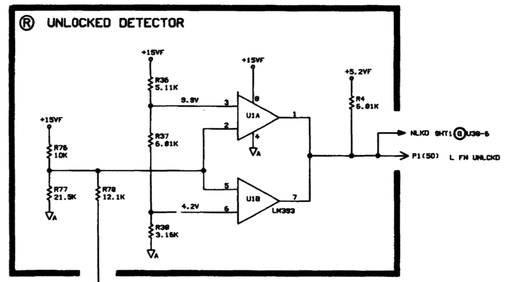
Ⓟ PHASE COMPARISON INTEGRATOR



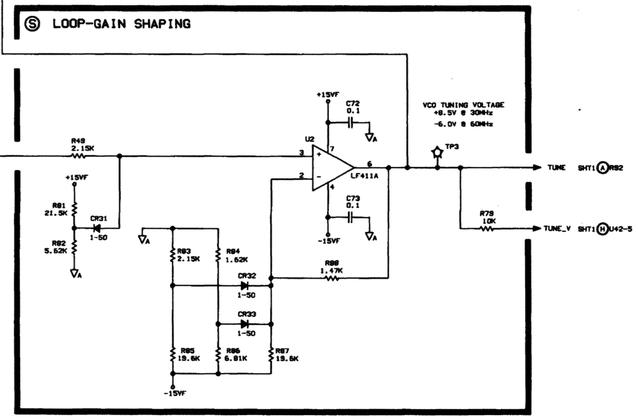
Ⓠ SAMPLE & HOLD



Ⓡ UNLOCKED DETECTOR



Ⓢ LOOP-GAIN SHAPING



A4 Fractional-N
08360-60010
(SHEET 3 of 3)

Schematic Package for 08360-60009 A5 YO Phase Detector

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Replaceable Parts List for A5 YO Phase Detector Assembly, Part Number 08360–60009 (1 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5	08360–60009	1	BD AY–YO PH DET	28480	08360–60009
A5C1	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X903SB2–DYS
A5C2	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X903SB2–DYS
A5C3	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X901SB2–DYS
A5C4	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X901SB2–DYS
A5C5	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C6	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C7	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C8	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C9	0160–4786	1	CAP–FXD 27pF ±5% 100 V CER C0G	02010	SA102A270JAAH
A5C10	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C11	0160–4804	1	CAP–FXD 56pF ±5% 100 V CER C0G	02010	SA102A560JAAH
A5C12	0160–4799	1	CAP–FXD 2.2pF ±11.36% 100 V CER C0G	02010	MA101A2R2CAAH
A5C13	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C14	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C15	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C16	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X901SB2–DYS
A5C17	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C18	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C19	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C20	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C21	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C22	0160–4786	1	CAP–FXD 27pF ±5% 100 V CER C0G	02010	SA102A270JAAH
A5C23	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C24	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C25	0160–4794	1	CAP–FXD 5.6pF ±8.92% 100 V CER C0G	02010	SA102A5R6DAAH
A5C26	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C27	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C28	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C29	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A5C30	0160–4800	1	CAP–FXD 120pF ±5% 100 V CER C0G	02010	SA102A121JAAH
A5C31	0160–4800	1	CAP–FXD 120pF ±5% 100 V CER C0G	02010	SA102A121JAAH
A5C32	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A5C33	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C34	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C35	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C36	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C37	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A5C38	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	02010	SA102A330JAAH
A5C39	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C40	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C41	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C42	0160–3335	1	CAP–FXD 470pF ±10% 100 V CER X7R	02010	SA102C471KAAH
A5C43	0160–3335	1	CAP–FXD 470pF ±10% 100 V CER X7R	02010	SA102C471KAAH
A5C45	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C46	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C47	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C48	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C49	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C50	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C52	0170–0040	1	CAP–FXD 0.047uF ±10% 200V POLYE–FL	05176	HEW238T
A5C53	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH

Replaceable Parts List for A5 YO Phase Detector Assembly, Part Number 08360–60009 (2 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5C54	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C55	0160–4786	1	CAP–FXD 27pF ±5% 100 V CER C0G	02010	SA102A270JAAH
A5C56	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C57	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C58	0160–0161	1	CAP–FXD 0.01uF ±10% 200 V POLYE–FL	05176	HEW238T
A5C59	0160–0161	1	CAP–FXD 0.01uF ±10% 200 V POLYE–FL	05176	HEW238T
A5C60	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C61	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C62	0170–0040	1	CAP–FXD 0.047uF ±10% 200 V POLYE–FL	05176	HEW238T
A5C63	0170–0040	1	CAP–FXD 0.047uF ±10% 200 V POLYE–FL	05176	HEW238T
A5C64	0180–0291	1	CAP–FXD 1uF ±10% 35 V TA	04200	150D105X9035A2–DYS
A5C65	0180–0291	1	CAP–FXD 1uF ±10% 35 V TA	04200	150D105X9035A2–DYS
A5C66	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A5C67	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A5C69	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C70	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C71	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C72	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C73	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C74	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C75	0160–4786	1	CAP–FXD 27pF ±5% 100 V CER C0G	02010	SA102A270JAAH
A5C76	0160–0161	1	CAP–FXD 0.01uF ±10% 200 V POLYE–FL	05176	HEW238T
A5C77	0160–0161	1	CAP–FXD 0.01uF ±10% 200 V POLYE–FL	05176	HEW238T
A5C78	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C79	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C80	0160–3405	1	CAP–FXD 2uF ±10% 50 V POLYC–MET	05176	HEW–249
A5C81	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C82	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C83	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A5C84	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A5C85	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C86	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A5C87	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A5C88	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A5CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A5CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A5CR3	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A5CR4	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A5CR5	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A5CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A5CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A5CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A5J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A5J2	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A5J3	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A5L1	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A5L2	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A5L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A5L4	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A5L5	9140–0351	1	INDUCTOR RF–CH–MLD 180NH ±5%	03273	15M180J
A5L6	9140–0451	1	INDUCTOR RF–CH–MLD 390NH ±5%	03273	15M390J

Replaceable Parts List for A5 YO Phase Detector Assembly, Part Number 08360–60009 (3 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5L7	9140–0451	1	INDUCTOR RF–CH–MLD 390NH ±5%	03273	15M390J
A5L8	9100–2486	1	INDUCTOR RF–CH–MLD 330NH ±5%	03273	15M330J
A5L9	9100–3315	1	INDUCTOR RF–CH–MLD 820NH ±5%	03273	15M820J
A5L10	9100–3314	1	INDUCTOR RF–CH–MLD 150NH ±5%	03273	15M150J
A5L11	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A5L12	9140–0398	1	INDUCTOR RF–CH–MLD 12UH ±5%	03273	15M122J
A5L13	9140–0398	1	INDUCTOR RF–CH–MLD 12UH ±5%	03273	15M122J
A5L14	9100–3313	1	INDUCTOR RF–CH–MLD 22UH ±5%	03273	15M222J
A5L15	9100–3313	1	INDUCTOR RF–CH–MLD 22UH ±5%	03273	15M222J
A5L16	9135–0079	1	INDUCTOR 100NH ±5.5% 2.6D–MMX6.6LG–MM	03273	10M0100X–1
A5L17	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A5L18	9140–0143	1	INDUCTOR RF–CH–MLD 3.3UH ±10%	05826	1025–32
A5L19	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A5MP2	1205–0533	4	HEAT SINK SGL DIP	07179	580200B00000
A5MP3	0403–0621	1	EXTR–PC BD BLK NYL .062–IN–BD–THKNS	02123	91–2–BLACK–5
A5MP4	0403–0623	1	EXTR–PC BD GRN NYL .062–IN–BD–THKNS	02123	91–2–GREEN–3
A5MP5	08360–20056	1	RF SHIELD – BACK	28480	08360–20056
A5MP6	08360–20057	1	RF SHIELD – FRONT	28480	08360–20057
A5MP7	1200–0173	2	INSULATOR–XSTR DAP–GL	02210	A–10001 DAP
A5MP8	0515–1410	7	SCREW–MACHINE ASSEMBLY M3 X 0.5 20MM–LG	05610	
A5MP9	8160–0648	5	RFI ROUND STRIP CNDCT–ELSTMR .07–IN–OD	02923	10–04–1687–1285
A5P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A5P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A5Q1	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A5Q2	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A5Q3	1854–0295	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD4465
A5R1	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R2	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R3	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R4	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R5	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R6	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R7	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R8	0757–0397	1	RESISTOR 68.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R9	0757–0397	1	RESISTOR 68.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R10	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R11	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R12	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R13	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R14	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R15	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R16	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R17	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R18	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R19	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R20	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R21	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R22	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R23	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R24	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R25	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R26	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A5 YO Phase Detector Assembly, Part Number 08360–60009 (4 of 6)

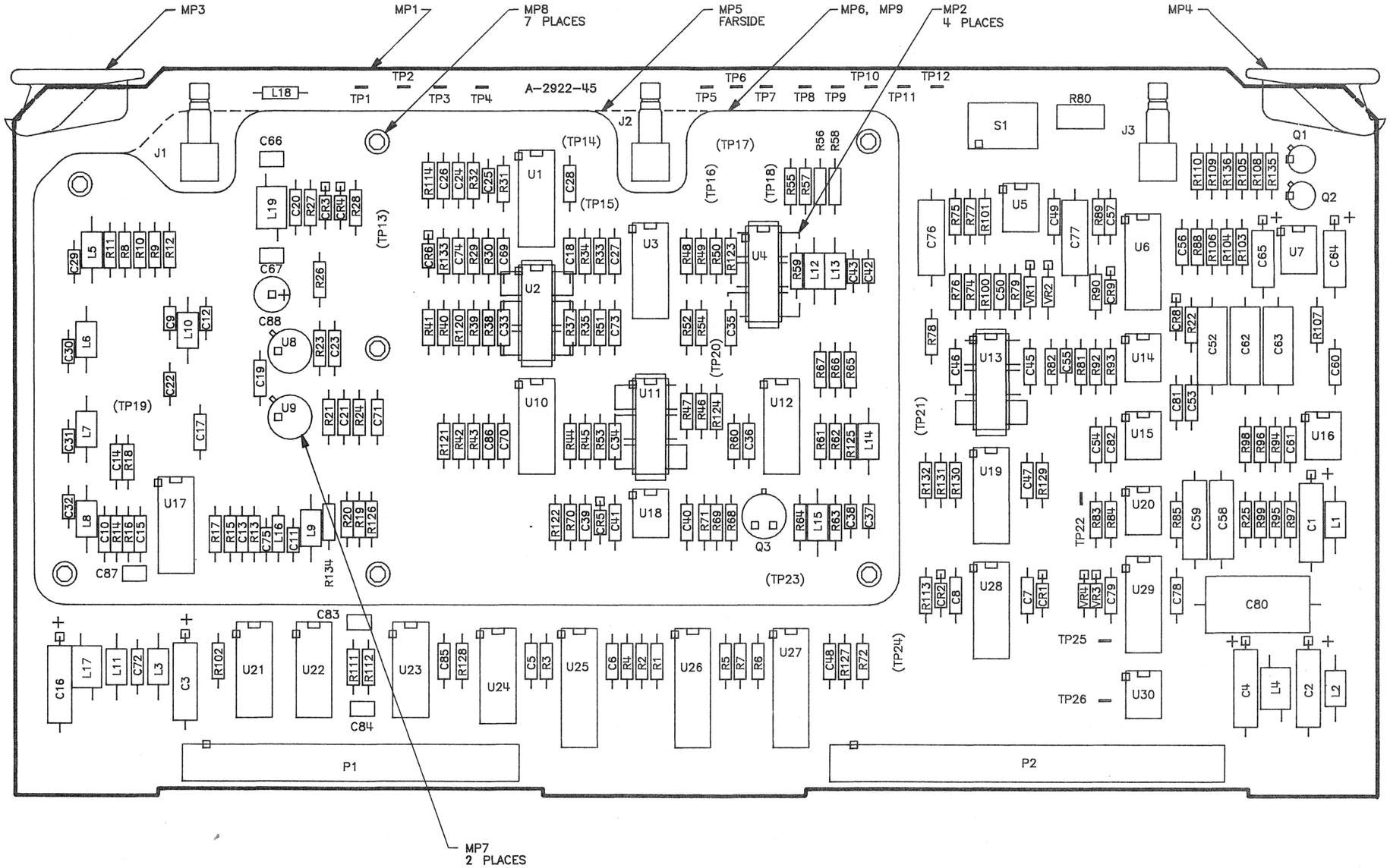
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5R27	0698–3429	1	RESISTOR 19.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R28	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R29	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R30	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R31	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R32	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R33	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R34	0698–3442	1	RESISTOR 237 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R35	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R37	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R38	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R39	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R40	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R41	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R42	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R43	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R44	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R45	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R46	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R47	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R48	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R49	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R50	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R51	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R52	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R53	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R54	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R55	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R56	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R57	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R58	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R59	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R60	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R61	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R62	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R63	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R64	0698–3429	1	RESISTOR 19.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R65	0698–4037	1	RESISTOR 46.4 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R66	0757–0276	1	RESISTOR 61.9 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R67	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R68	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R69	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R70	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R71	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R72	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R74	0757–0418	1	RESISTOR 619 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R75	0757–0418	1	RESISTOR 619 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R76	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R77	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R78	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R79	0698–3449	1	RESISTOR 28.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R80	2100–3273	1	RESISTOR–TRMR 2K 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–202

Replaceable Parts List for A5 YO Phase Detector Assembly, Part Number 08360–60009 (5 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5R81	0698–0083	1	RESISTOR 1.96K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R82	0757–0290	1	RESISTOR 6.19K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R83	0698–3153	1	RESISTOR 3.83K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R84	0698–3161	1	RESISTOR 38.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R85	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R88	0698–3455	1	RESISTOR 261K±1% .125W TF TC=0±100	05524	CMF–55–1
A5R89	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R90	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R92	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R93	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R94	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R95	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R96	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R97	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R98	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R99	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R100	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R101	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R102	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R103	0757–0419	1	RESISTOR 681 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R104	0757–0419	1	RESISTOR 681 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R105	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R106	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R107	0698–3429	1	RESISTOR 19.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R108	0698–3429	1	RESISTOR 19.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R109	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R110	0698–3429	1	RESISTOR 19.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R111	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R112	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R113	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R114	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R120	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R121	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R122	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R123	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R124	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R125	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R126	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R127	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R128	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R129	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R130	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R131	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R132	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R133	0698–3455	1	RESISTOR 261K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R134	0698–0082	1	RESISTOR 464 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R135	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R136	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5S1	3101–2340	1	SWITCH–DIP RKR 5–1A 0.05A 30VDC	04990	76PSB05S
A5TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP3	1460–2201	1	SPRING RADIAL TEST POINT		

Replaceable Parts List for A5 YO Phase Detector Assembly, Part Number 08360–60009 (6 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP11	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP12	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP22	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP25	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP26	1460–2201	1	SPRING RADIAL TEST POINT		
A5U1	1820–2848	1	IC RCVR ECL/10KH LINE RCVR TPL	02037	MC10H116P
A5U2	1820–0820	1	IC FF ECL J–BAR K–BAR COM CLOCK DUAL	02037	MC10135L
A5U3	1820–0802	1	IC GATE ECL NOR QUAD 2–INP	02037	MC10102P
A5U4	1820–1344	1	IC MISC ECL	02037	MC12040L
A5U5	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27GZ
A5U6	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A5U7	1826–0982	1	IC OP AMP LOW–NOISE 8 PIN DIP–C	02180	OP–37GZ (SELECTED)
A5U8	1813–0211	1	IC WIDEBAND AMPL TO–39	02037	MWA110
A5U9	1813–0211	1	IC WIDEBAND AMPL TO–39	02037	MWA110
A5U10	1820–0802	1	IC GATE ECL NOR QUAD 2–INP	02037	MC10102P
A5U11	1820–0820	1	IC FF ECL J–BAR K–BAR COM CLOCK DUAL	02037	MC10135L
A5U12	1820–0802	1	IC GATE ECL NOR QUAD 2–INP	02037	MC10102P
A5U13	1820–1052	1	IC XLTR ECL ECL–TO–TTL QUAD 2–INP	02037	MC10125L
A5U14	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27GZ
A5U15	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27GZ
A5U16	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27GZ
A5U17	1820–2848	1	IC RCVR ECL/10KH LINE RCVR TPL	02037	MC10H116P
A5U18	1826–0065	1	IC COMPARATOR PRCN 8 PIN DIP–P	03406	LM311N
A5U19	1820–3505	1	IC CNTR TTL/ALS BIN UP/DOWN SYNCHRO	01698	SN74ALS191N
A5U20	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A5U21	1820–3081	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG	02037	MC74HC74N
A5U22	1820–3185	1	IC SCHMITT–TRIG CMOS/HC INV HEX	03406	MM74HC14N
A5U23	1820–2922	1	IC GATE CMOS/HC NAND QUAD 2–INP	02037	MC74HC00N
A5U24	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A5U25	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A5U26	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A5U27	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A5U28	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A5U29	1826–1145	1	SAMPLE AND HOLD 14 –CERDIP	02180	SMP–10EY
A5U30	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A5VR1	1902–3036	1	DIODE–ZNR 3.16V 5% DO–7 PD=.4W TC=–.064	02037	
A5VR2	1902–3036	1	DIODE–ZNR 3.16V 5% DO–7 PD=.4W TC=–.064	02037	
A5VR3	1902–3149	1	DIODE–ZNR 9.09V 5% DO–35 PD=.4W	02037	
A5VR4	1902–3149	1	DIODE–ZNR 9.09V 5% DO–35 PD=.4W	02037	



NOTES: UNLESS OTHERWISE SPECIFIED

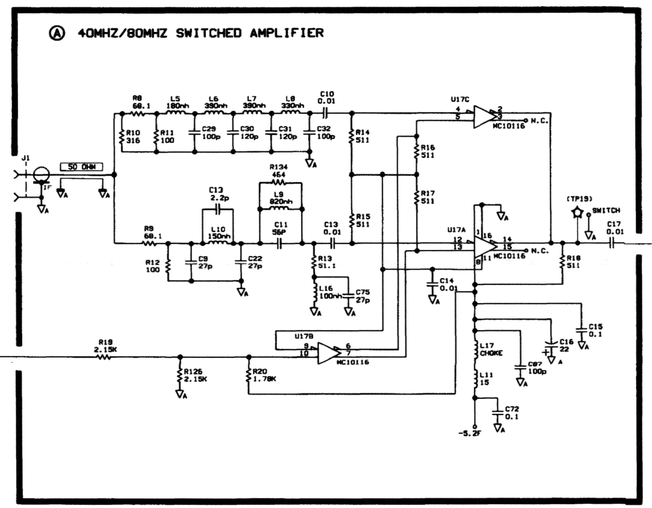
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
   SOLDERING PER A-5951-1585-1 (741.070F)
   REWORK PER A-5951-1586-1 (741.070G)
2. TP13-21,TP23,TP24 SHOWN FOR REFERENCE ONLY.

HEWLETT PACKARD

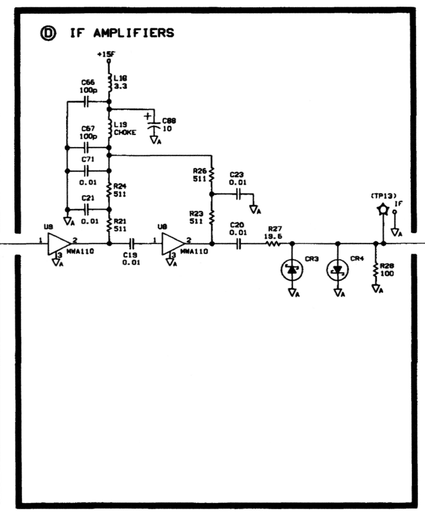
A5 YO Phase Detector

08360-60009

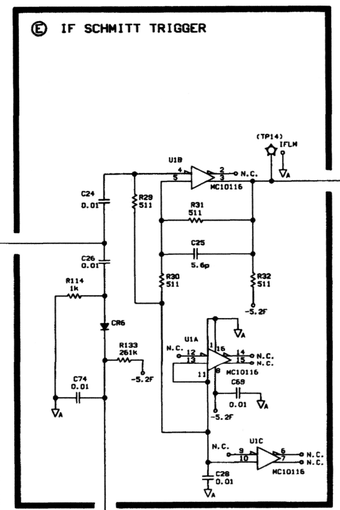
Ⓐ 40MHZ/80MHZ SWITCHED AMPLIFIER



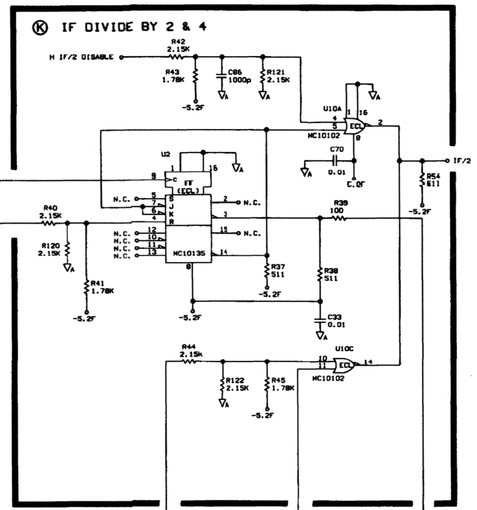
Ⓓ IF AMPLIFIERS



Ⓔ IF SCHMITT TRIGGER



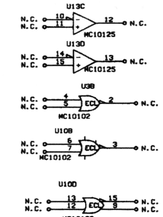
Ⓚ IF DIVIDE BY 2 & 4



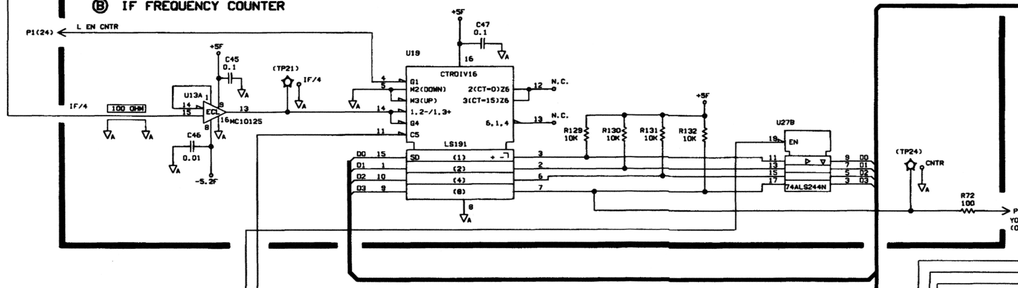
NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.
4. TP13-21,23,24 SHOWN FOR REFERENCE ONLY.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
R136	R36,73,86,87,91, R115-119
C88	C44,51
CR9	CR7
Q3	
J3	
U30	
L19	
VR4	
TP26	

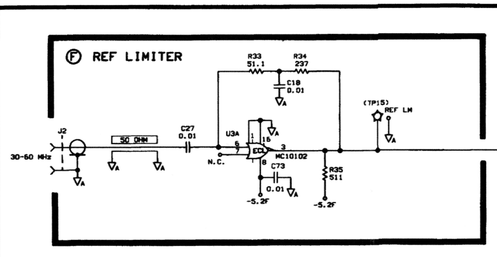
FUNCTION	DEVICE ADDRESS	RD	WR
CONTROL REGISTER	403		X
ABUS CONTROL	404		X



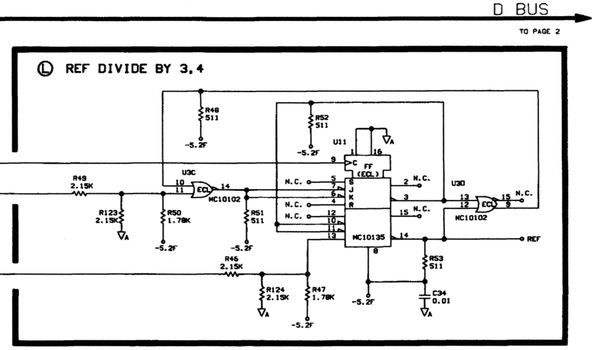
Ⓑ IF FREQUENCY COUNTER



Ⓕ REF LIMITER

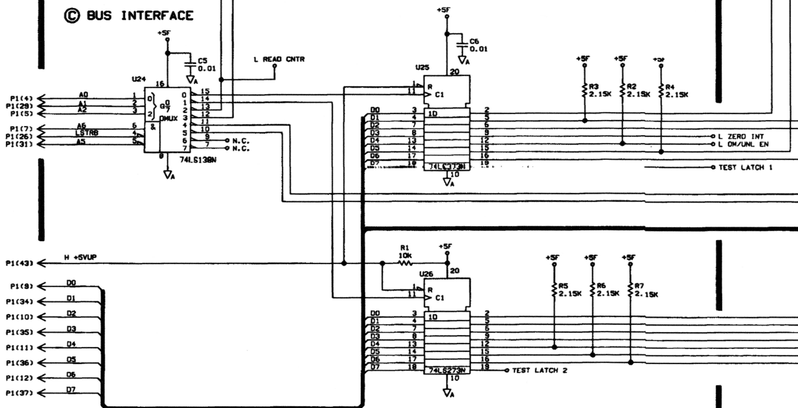


Ⓛ REF DIVIDE BY 3,4

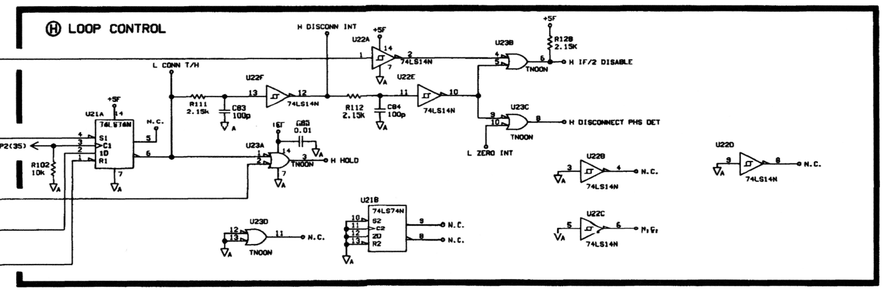


D BUS
TO PAGE 2

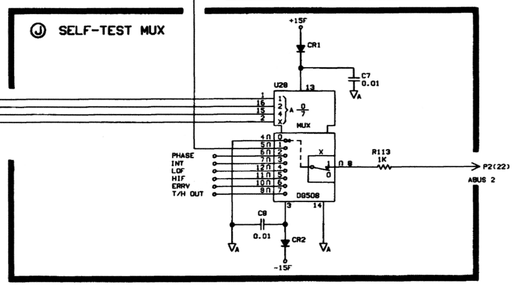
Ⓒ BUS INTERFACE



Ⓗ LOOP CONTROL

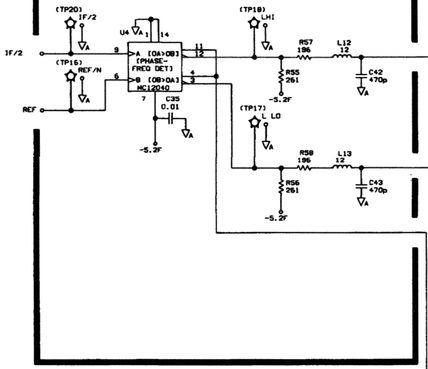


Ⓙ SELF-TEST MUX

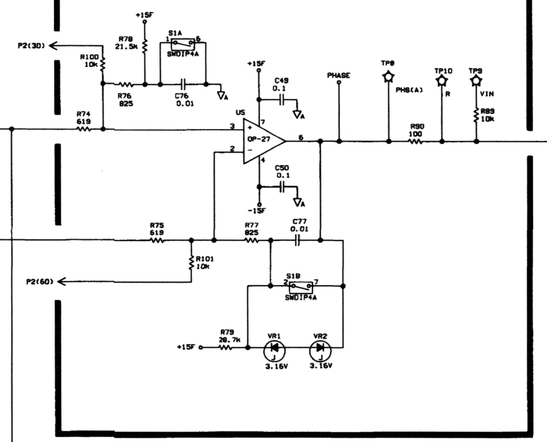


A5 YO Phase Detector
08360-60009
(SHEET 1 of 2)

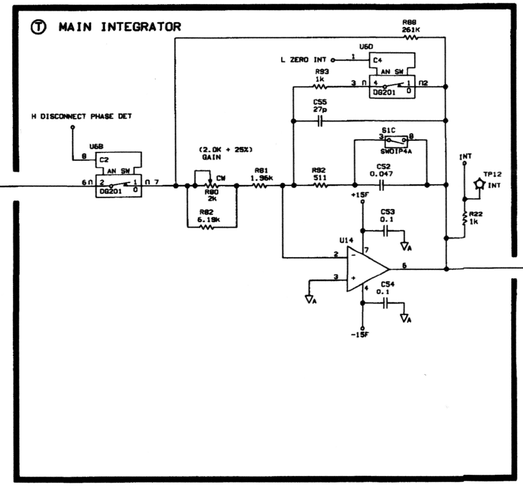
Ⓗ PHASE DETECTOR



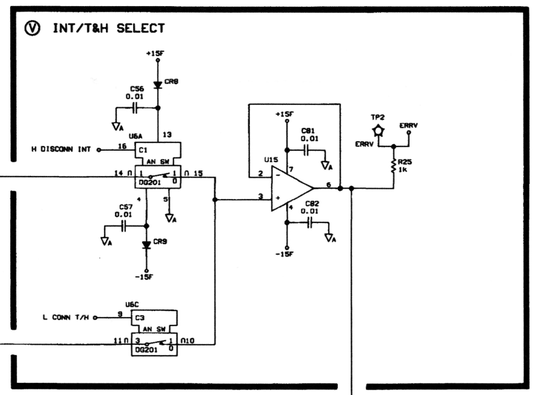
Ⓟ PHASE DETECTOR INTEGRATOR



Ⓣ MAIN INTEGRATOR

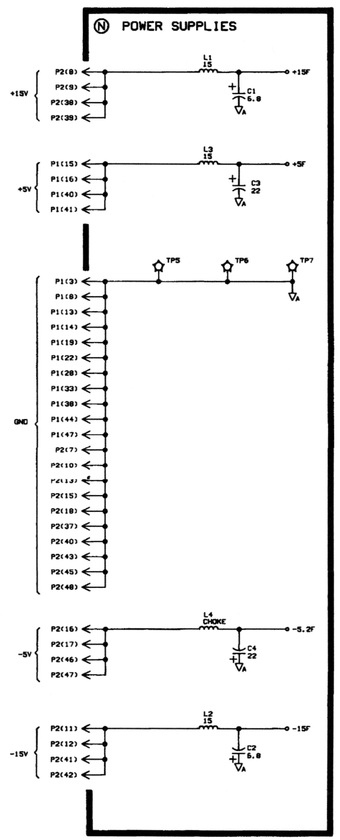


Ⓥ INT/T&H SELECT

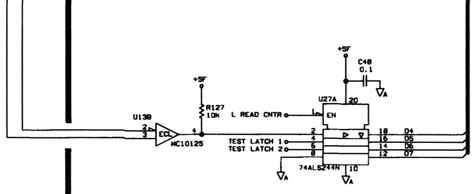


FROM PAGE 1
D BUS

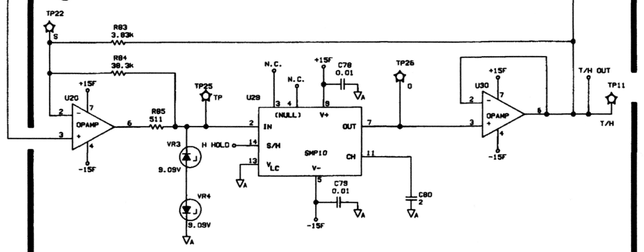
Ⓝ POWER SUPPLIES



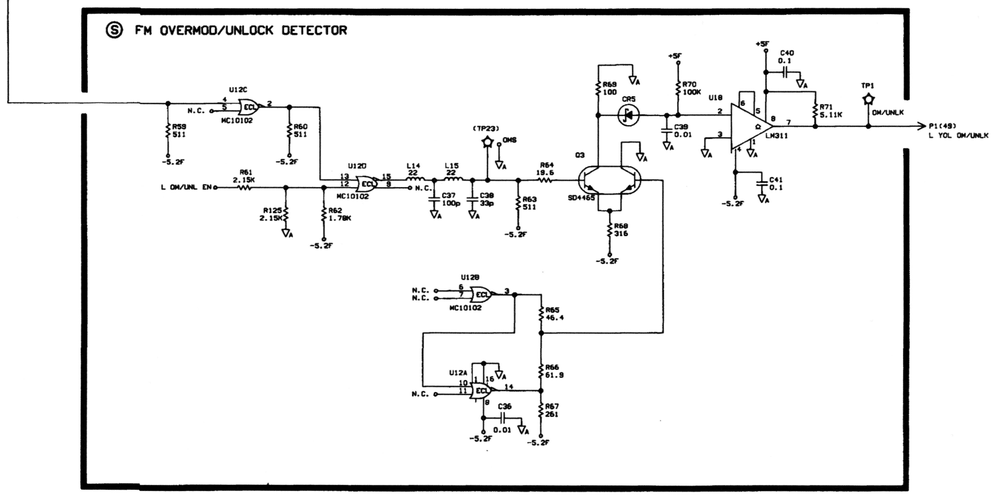
Ⓡ PHASE DETECTOR TEST



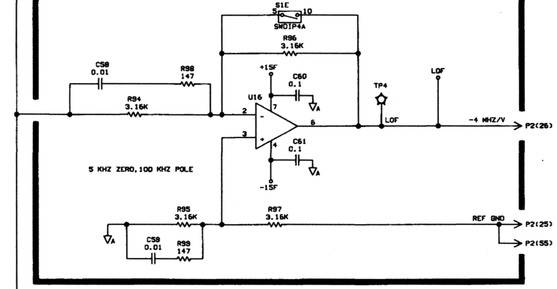
Ⓤ TRACK & HOLD



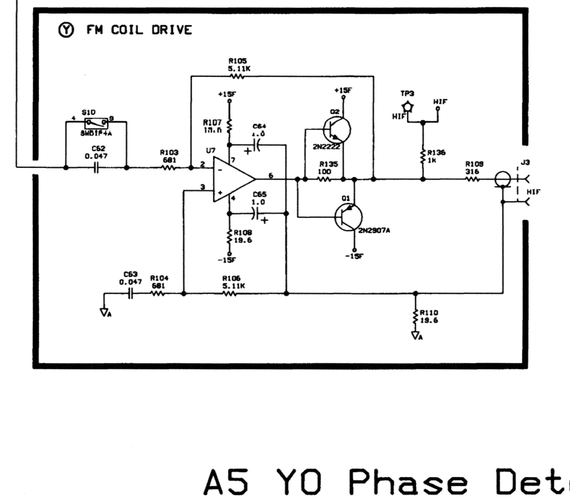
Ⓢ FM OVERMOD/UNLOCK DETECTOR



Ⓦ YO DRIVER INTERFACE



Ⓨ FM COIL DRIVE



A5 YO Phase Detector
08360-60009
(SHEET 2 of 2)

Schematic Package for 08360-60209 A5 YO Phase Detector

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HEWLETT PACKARD

Replaceable Parts List for A5 YO Phase Detector Assembly, Part Number 08360–60209 (1 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5	08360–60209	1	BD AY–YO PH DET	28480	08360–60209
A5C1	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A5C2	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A5C3	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A5C4	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A5C5	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C6	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C7	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C8	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C9	0160–4786	1	CAP–FXD 27pF ±5% 100 V CER C0G	02010	SA102A270JAAH
A5C10	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C11	0160–4804	1	CAP–FXD 56pF ±5% 100 V CER C0G	02010	SA102A560JAAH
A5C12	0160–4799	1	CAP–FXD 2.2pF ±11.36% 100 V CER C0G	02010	MA101A2R2CAAH
A5C13	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C14	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C15	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C16	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A5C17	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C18	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C19	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C20	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C21	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C22	0160–4786	1	CAP–FXD 27pF ±5% 100 V CER C0G	02010	SA102A270JAAH
A5C23	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C24	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C25	0160–4794	1	CAP–FXD 5.6pF ±8.92% 100 V CER C0G	02010	SA102A5R6DAAH
A5C26	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C27	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C28	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C29	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A5C30	0160–4800	1	CAP–FXD 120pF ±5% 100 V CER C0G	02010	SA102A121JAAH
A5C31	0160–4800	1	CAP–FXD 120pF ±5% 100 V CER C0G	02010	SA102A121JAAH
A5C32	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A5C33	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C34	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C35	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C36	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C37	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A5C38	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	02010	SA102A330JAAH
A5C39	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C40	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C41	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C42	0160–3335	1	CAP–FXD 470pF ±10% 100 V CER X7R	02010	SA102C471KAAH
A5C43	0160–3335	1	CAP–FXD 470pF ±10% 100 V CER X7R	02010	SA102C471KAAH
A5C45	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C46	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C47	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C48	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C49	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C50	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C52	0160–4834	1	CAP–FXD 0.047uF ±10% 100 V CER X7R	02010	SA301C473KAAH
A5C53	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH

Replaceable Parts List for A5 YO Phase Detector Assembly, Part Number 08360–60209 (2 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5C54	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C55	0160–4786	1	CAP–FXD 27pF ±5% 100 V CER C0G	02010	SA102A270JAAH
A5C56	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C57	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C58	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C59	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C60	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C61	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C62	0170–0040	1	CAP–FXD 0.047uF ±10% 200 V POLYE–FL	05176	HEW238T
A5C63	0160–4834	1	CAP–FXD 0.047uF ±10% 100 V CER X7R	02010	SA301C473KAAH
A5C64	0180–4129	1	CAP–FXD 1uF ±10% 35 V TA	04200	173D105X9035V
A5C65	0180–4129	1	CAP–FXD 1uF ±10% 35 V TA	04200	173D105X9035V
A5C66	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A5C67	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A5C69	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C70	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C71	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C72	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A5C73	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C74	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C75	0160–4786	1	CAP–FXD 27pF ±5% 100 V CER C0G	02010	SA102A270JAAH
A5C76	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C77	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C78	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C79	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C80	0160–3405	1	CAP–FXD 2uF ±10% 50 V POLYC–MET	05176	HEW–249
A5C81	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C82	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C83	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A5C84	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A5C85	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C86	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A5C87	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A5C88	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A5C89	0160–4834	1	CAP–FXD 0.047uF ±10% 100 V CER X7R	02010	SA301C473KAAH
A5C90	0160–4535	1	CAP–FXD 1uF ±10% 50 V CER X7R	09939	RPE113–130X7R105K50V
A5C91	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C92	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C93	0160–3405	1	CAP–FXD 2uF ±10% 50 V POLYC–MET	05176	HEW–249
A5C94	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C95	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C96	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5C97	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A5CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A5CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A5CR3	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A5CR4	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A5CR5	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A5CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A5CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A5CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A5CR10	1901–0033	1	DIODE–GEN PRP 180V 200MA DO–35	03406	

Replaceable Parts List for A5 YO Phase Detector Assembly, Part Number 08360–60209 (3 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5CR11	1901–0033	1	DIODE–GEN PRP 180V 200MA DO–35	03406	
A5CR12	1901–0033	1	DIODE–GEN PRP 180V 200MA DO–35	03406	
A5CR13	1901–0033	1	DIODE–GEN PRP 180V 200MA DO–35	03406	
A5CR14	1901–0033	1	DIODE–GEN PRP 180V 200MA DO–35	03406	
A5CR15	1901–0033	1	DIODE–GEN PRP 180V 200MA DO–35	03406	
A5J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A5J2	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A5J3	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A5L1	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A5L2	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A5L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A5L4	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A5L5	9140–0351	1	INDUCTOR RF–CH–MLD 180NH ±5%	03273	15M180J
A5L6	9140–0451	1	INDUCTOR RF–CH–MLD 390NH ±5%	03273	15M390J
A5L7	9140–0451	1	INDUCTOR RF–CH–MLD 390NH ±5%	03273	15M390J
A5L8	9100–2486	1	INDUCTOR RF–CH–MLD 330NH ±5%	03273	15M330J
A5L9	9100–3315	1	INDUCTOR RF–CH–MLD 820NH ±5%	03273	15M820J
A5L10	9100–3314	1	INDUCTOR RF–CH–MLD 150NH ±5%	03273	15M150J
A5L11	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A5L12	9140–0398	1	INDUCTOR RF–CH–MLD 12UH ±5%	03273	15M122J
A5L13	9140–0398	1	INDUCTOR RF–CH–MLD 12UH ±5%	03273	15M122J
A5L14	9100–3313	1	INDUCTOR RF–CH–MLD 22UH ±5%	03273	15M222J
A5L15	9100–3313	1	INDUCTOR RF–CH–MLD 22UH ±5%	03273	15M222J
A5L16	9135–0079	1	INDUCTOR 100NH ±5.5% 2.6D–MMX6.6LG–MM	03273	10M0100X–1
A5L17	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A5L18	9140–0143	1	INDUCTOR RF–CH–MLD 3.3UH ±10%	05826	1025–32
A5L19	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A5MP2	1205–0533	4	HEAT SINK SGL DIP	07179	580200B00000
A5MP3	0403–0621	1	EXTR–PC BD BLK NYL .062–IN–BD–THKNS	02123	91–2–BLACK–5
A5MP4	0403–0623	1	EXTR–PC BD GRN NYL .062–IN–BD–THKNS	02123	91–2–GREEN–3
A5MP5	08360–20056	1	RF SHIELD – BACK	28240	08360–20056
A5MP6	08360–20057	1	RF SHIELD – FRONT	28240	08360–20057
A5MP7	1200–0173	2	INSULATOR–XSTR DAP–GL	02210	A–10001 DAP
A5MP8	0515–1410	7	SCREW–MACHINE ASSEMBLY M3 X 0.5 20MM–LG	05610	
A5MP9	8160–0648	5	RFI ROUND STRIP CNDCT–ELSTMR .07–IN–OD	02923	10–04–1687–1285
A5P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A5P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A5Q1	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A5Q2	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A5Q3	1854–0295	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD4465
A5R1	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R2	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R3	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R4	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R5	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R6	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R7	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R8	0757–0397	1	RESISTOR 68.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R9	0757–0397	1	RESISTOR 68.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R10	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R11	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A5 YO Phase Detector Assembly, Part Number 08360–60209 (4 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5R12	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R13	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R14	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R15	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R16	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R17	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R18	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R19	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R20	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R21	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R22	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R23	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R24	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R25	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R26	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R27	0698–3429	1	RESISTOR 19.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R28	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R29	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R30	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R31	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R32	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R33	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R34	0698–3442	1	RESISTOR 237 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R35	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R37	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R38	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R39	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R40	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R41	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R42	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R43	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R44	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R45	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R46	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R47	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R48	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R49	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R50	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R51	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R52	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R53	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R54	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R55	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R56	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R57	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R58	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R59	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R60	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R61	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R62	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R63	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R64	0698–3429	1	RESISTOR 19.6 ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A5 YO Phase Detector Assembly, Part Number 08360–60209 (5 of 7)

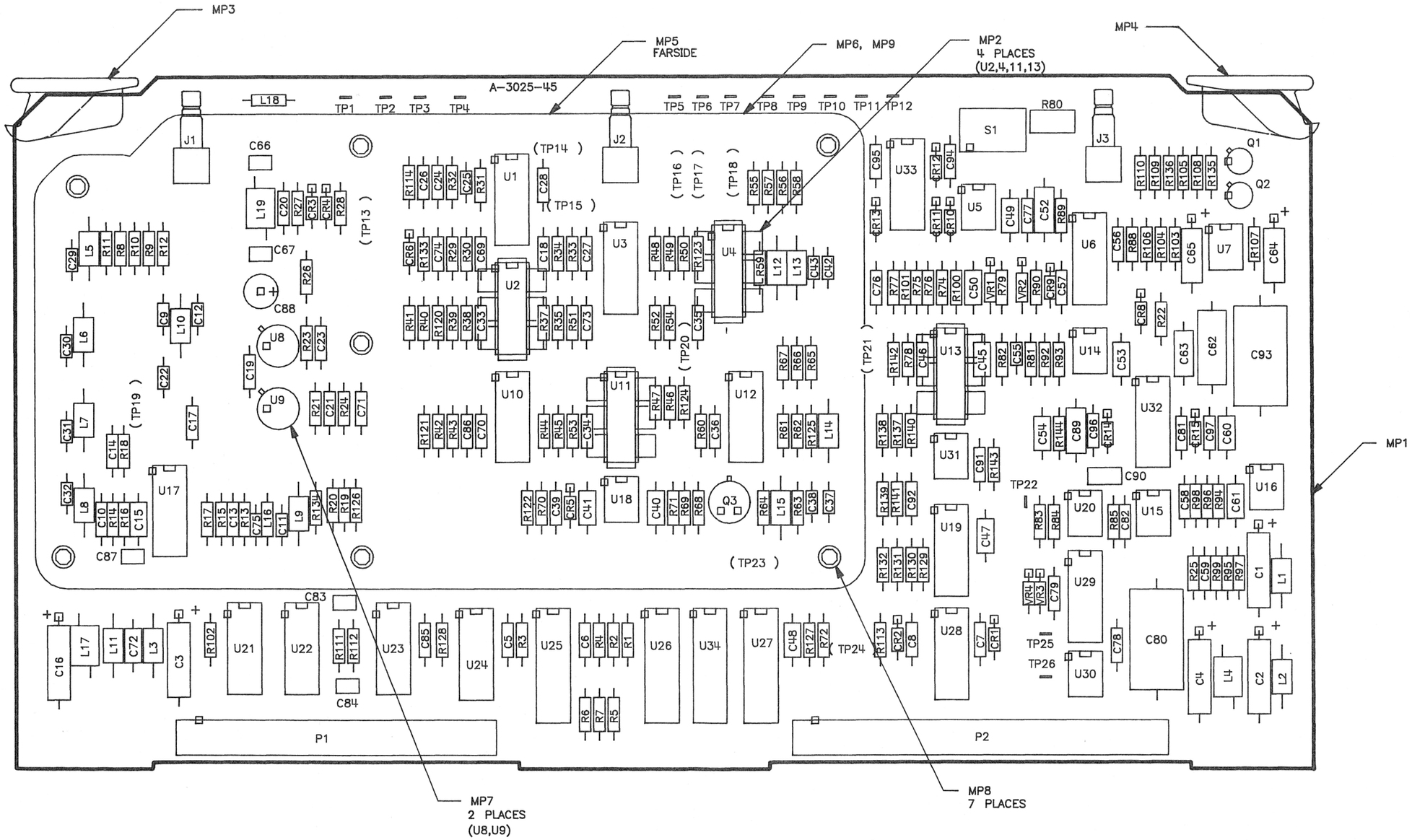
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5R65	0698–4037	1	RESISTOR 46.4 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R66	0757–0276	1	RESISTOR 61.9 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R67	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R68	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R69	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R70	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R71	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R72	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R74	0757–0418	1	RESISTOR 619 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R75	0757–0418	1	RESISTOR 619 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R76	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R77	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R78	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R79	0698–3449	1	RESISTOR 28.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R80	2100–3273	1	RESISTOR–TRMR 2K 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–202
A5R81	0698–0083	1	RESISTOR 1.96K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R82	0757–0290	1	RESISTOR 6.19K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R83	0698–3153	1	RESISTOR 3.83K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R84	0698–3161	1	RESISTOR 38.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R85	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R88	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R89	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R90	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R92	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R93	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R94	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R95	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R96	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R97	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R98	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R99	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R100	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R101	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R102	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R103	0757–0419	1	RESISTOR 681 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R104	0757–0419	1	RESISTOR 681 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R105	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R106	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R107	0698–3429	1	RESISTOR 19.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R108	0698–3429	1	RESISTOR 19.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R109	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R110	0698–3429	1	RESISTOR 19.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R111	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R112	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R113	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R114	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R120	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R121	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R122	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R123	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R124	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R125	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A5 YO Phase Detector Assembly, Part Number 08360–60209 (6 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5R126	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R127	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R128	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R129	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R130	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R131	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R132	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R133	0698–3455	1	RESISTOR 261K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R134	0698–0082	1	RESISTOR 464 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R135	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R136	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R137	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R138	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R139	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R140	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R141	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R142	0698–3266	1	RESISTOR 237K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R143	0757–0463	1	RESISTOR 82.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5R144	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A5S1	3101–2340	1	SWITCH–DIP RKR 5–1A 0.05A 30VDC	04990	76PSB05S
A5TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP11	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP12	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP22	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP25	1460–2201	1	SPRING RADIAL TEST POINT		
A5TP26	1460–2201	1	SPRING RADIAL TEST POINT		
A5U1	1820–2848	1	IC RCVR ECL/10KH LINE RCVR TPL	02037	MC10H116P
A5U2	1820–0820	1	IC FF ECL J–BAR K–BAR COM CLOCK DUAL	02037	MC10135L
A5U3	1820–0802	1	IC GATE ECL NOR QUAD 2–INP	02037	MC10102P
A5U4	1820–1344	1	IC MISC ECL	02037	MC12040L
A5U5	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27GZ
A5U6	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A5U7	1826–0982	1	IC OP AMP LOW–NOISE 8 PIN DIP–C	02180	OP–37GZ (SELECTED)
A5U8	1813–0211	1	IC WIDEBAND AMPL TO–39	02037	MWA110
A5U9	1813–0211	1	IC WIDEBAND AMPL TO–39	02037	MWA110
A5U10	1820–0802	1	IC GATE ECL NOR QUAD 2–INP	02037	MC10102P
A5U11	1820–0820	1	IC FF ECL J–BAR K–BAR COM CLOCK DUAL	02037	MC10135L
A5U12	1820–0802	1	IC GATE ECL NOR QUAD 2–INP	02037	MC10102P
A5U13	1820–1052	1	IC XLTR ECL ECL–TO–TTL QUAD 2–INP	02037	MC10125L
A5U14	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27GZ
A5U15	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27GZ
A5U16	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27GZ
A5U17	1820–2848	1	IC RCVR ECL/10KH LINE RCVR TPL	02037	MC10H116P

Replaceable Parts List for A5 YO Phase Detector Assembly, Part Number 08360–60209 (7 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A5U18	1826–0065	1	IC COMPARATOR PRCN 8 PIN DIP–P	03406	LM311N
A5U19	1820–3505	1	IC CNTR TTL/ALS BIN UP/DOWN SYNCHRO	01698	SN74ALS191N
A5U20	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A5U21	1820–3081	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG	02037	MC74HC74N
A5U22	1820–3185	1	IC SCHMITT–TRIG CMOS/HC INV HEX	03406	MM74HC14N
A5U23	1820–2922	1	IC GATE CMOS/HC NAND QUAD 2–INP	02037	MC74HC00N
A5U24	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A5U25	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A5U26	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A5U27	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A5U28	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A5U29	1826–1145	1	SAMPLE AND HOLD 14 –CERDIP	02180	SMP–10EY
A5U30	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A5U31	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A5U32	1826–2007	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG413DJ
A5U33	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A5U34	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A5VR1	1902–3036	1	DIODE–ZNR 3.16V 5% DO–7 PD=.4W TC=–.064	02037	
A5VR2	1902–3036	1	DIODE–ZNR 3.16V 5% DO–7 PD=.4W TC=–.064	02037	
A5VR3	1902–3149	1	DIODE–ZNR 9.09V 5% DO–35 PD=.4W	02037	
A5VR4	1902–3149	1	DIODE–ZNR 9.09V 5% DO–35 PD=.4W	02037	



NOTES: UNLESS OTHERWISE SPECIFIED

1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
   SOLDERING PER A-5951-1585-1 (741.070F)
   REWORK PER A-5951-1586-1 (741.070G)

2. TP13-21,TP23,TP24 SHOWN FOR REFERENCE ONLY

HEWLETT PACKARD

A5 YO Phase Detector

08360-60209

Ⓐ 40MHZ/80MHZ SWITCHED AMPLIFIER

Ⓓ IF AMPLIFIERS

Ⓔ IF SCHMITT TRIGGER

Ⓚ IF DIVIDE BY 2 & 4

Ⓑ IF FREQUENCY COUNTER

Ⓕ REF LIMITER

Ⓛ REF DIVIDE BY 3,4

Ⓒ BUS INTERFACE

Ⓗ LOOP CONTROL

Ⓙ SELF-TEST MUX

D BUS

TO PAGE 2

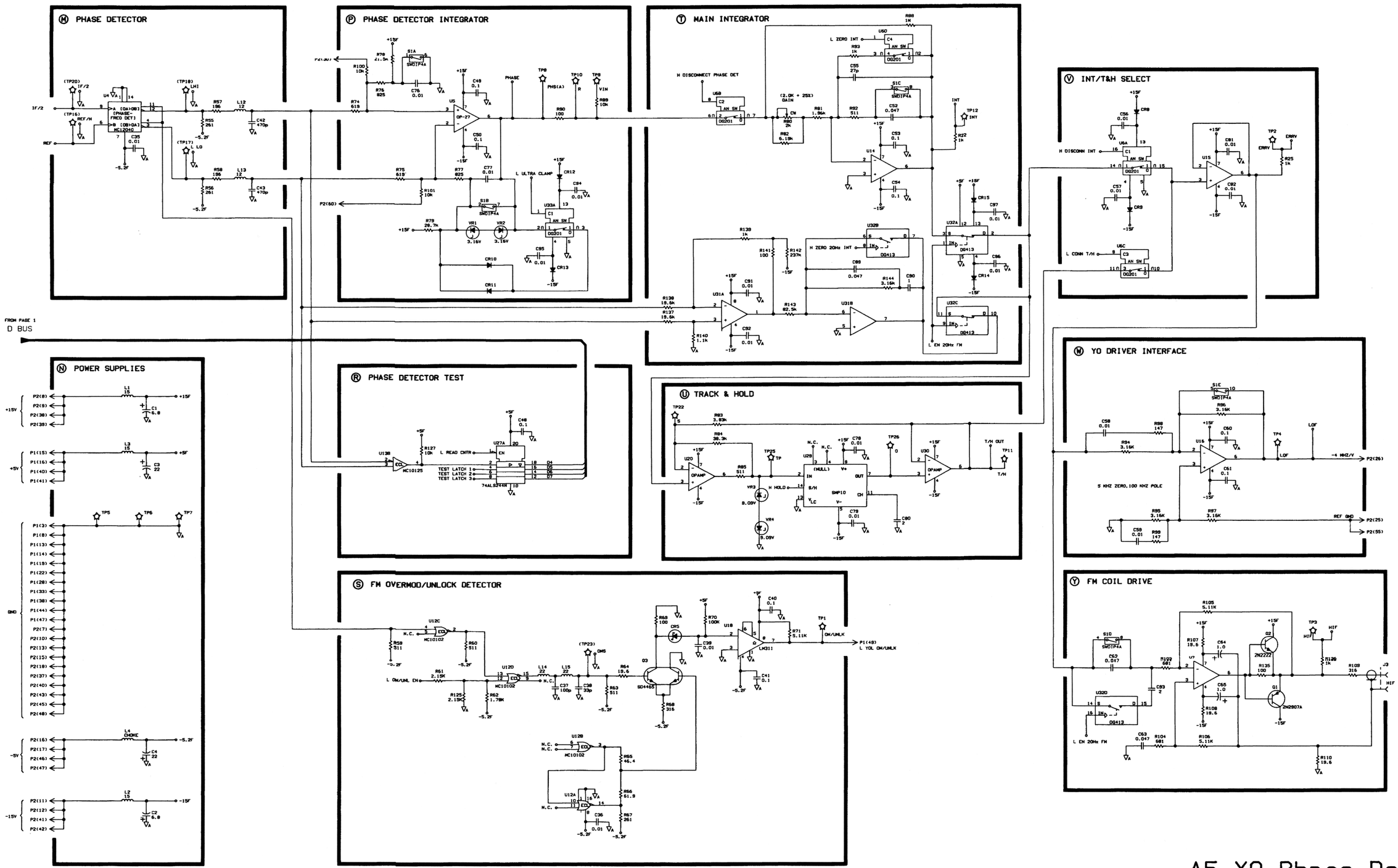
NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

REFERENCE DESIGNATORS			
LAST USED			NOT USED
C87	Q3	S1	C60
CR15	R144		CR7
J3	TP26		R36,73,86,87,91,
L18	U34		R115-118
P2	VR4		TP13-21,23,24

A5 YO Phase Detector

08360-60209

(SHEET 1 of 2)



A5 YO Phase Detector

08360-60209

(SHEET 2 of 2)

Schematic Package for 08360-60007 A6 Sampler

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Replaceable Parts List for A6 Sampler Assembly, Part Number 08360–60007 (1 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6	08360–60007	1	BD ASSY–SAMPLER	28480	08360–60007
A6C1	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C10	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C100	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C101	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C102	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C103	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A6C104	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1
A6C105	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1
A6C106	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A6C107	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A6C108	0160–5896	1	CAP–FXD 1pF ±25% 100 V CER C0G	06352	DA12C0G2A010C
A6C109	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C11	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1
A6C110	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C111	0160–4803	1	CAP–FXD 68pF ±5% 100 V CER C0G	02010	SA102A680JAAH
A6C112	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A6C113	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A6C114	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A6C115	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A6C116	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A6C117	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A6C118	0160–5896	1	CAP–FXD 1pF ±25% 100 V CER C0G	06352	DA12C0G2A010C
A6C119	0160–5896	1	CAP–FXD 1pF ±25% 100 V CER C0G	06352	DA12C0G2A010C
A6C12	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C120	0160–5896	1	CAP–FXD 1pF ±25% 100 V CER C0G	06352	DA12C0G2A010C
A6C121	0160–5896	1	CAP–FXD 1pF ±25% 100 V CER C0G	06352	DA12C0G2A010C
A6C125	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C126	0160–4831	1	CAP–FXD 4700pF ±10% 100 V CER X7R	02010	SA101C472KAAH
A6C13	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C14	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C15	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A6C16	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A6C17	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C18	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C19	0160–4623	1	CAP–FXD 3900pF ±5% 100 V CER C0G	02010	SA301A392JAAH
A6C2	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A6C20	0160–4623	1	CAP–FXD 3900pF ±5% 100 V CER C0G	02010	SA301A392JAAH
A6C21	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C22	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C23	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C24	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C25	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C26	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C27	0160–4825	1	CAP–FXD 560pF ±5% 100 V CER C0G	02010	SA101A561JAAH
A6C28	0160–4808	1	CAP–FXD 470pF ±5% 100 V CER C0G	02010	SA101A471JAAH
A6C29	0160–4808	1	CAP–FXD 470pF ±5% 100 V CER C0G	02010	SA101A471JAAH
A6C3	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A6C30	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A6C31	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A6C32	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH

Replaceable Parts List for A6 Sampler Assembly, Part Number 08360–60007 (2 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6C33	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C34	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C35	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	02010	SA102A330JAAH
A6C36	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C37	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C38	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C39	0160–4833	1	CAP–FXD 0.022uF ±10% 100 V CER X7R	02010	SA201C223KAAH
A6C4	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1
A6C40	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C41	0160–4800	1	CAP–FXD 120pF ±5% 100 V CER C0G	02010	SA102A121JAAH
A6C42	0160–4623	1	CAP–FXD 3900pF ±5% 100 V CER C0G	02010	SA301A392JAAH
A6C43	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C44	0160–3829	1	CAP–0.47uF ±10% 50 V POLYC–MET	05176	HEW–249
A6C45	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A6C46	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A6C47	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A6C48	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A6C49	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C5	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1
A6C50	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C51	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C52	0160–5896	1	CAP–FXD 1pF ±25% 100 V CER C0G	06352	DA12C0G2A010C
A6C53	0160–4796	1	CAP–FXD 3.9pF ±6.4% 100 V CER C0G	02010	SA101A3R9CAAH
A6C54	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C56	0160–4811	1	CAP–FXD 270pF ±5% 100 V CER C0G	02010	SA101A271JAAH
A6C57	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C58	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A6C59	0180–4169	1	CAP–FXD 47uF ±10% 35 V TA	12340	T322F476K035AS
A6C6	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1
A6C60	0160–4790	1	CAP–FXD 12pF ±5% 100 V CER C0G	02010	SA102A120JAAH
A6C61	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	02010	SA102A330JAAH
A6C62	0160–4792	1	CAP–FXD 8.2pF ±6.1% 100 V CER C0G	02010	SA102A8R2DAAH
A6C63	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C64	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C65	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A6C66	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C67	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C68	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C7	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C74	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A6C75	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	02010	SA102A100JAAH
A6C76	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C77	0160–4789	1	CAP–FXD 15pF ±5% 100 V CER C0G	02010	SA102A150JAAH
A6C78	0160–4794	1	CAP–FXD 5.6pF ±8.92% 100 V CER C0G	02010	SA102A5R6DAAH
A6C79	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C8	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A6C80	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A6C81	0160–4795	1	CAP–FXD 4.7pF ±10.64% 100 V CER C0G	02010	SA102A4R7DAAH
A6C82	0121–0046	1	CAP–VAR 35pF 9pF 200 V CER	09538	538–016 D 9–35
A6C83	0121–0046	1	CAP–VAR 35pF 9pF 200 V CER	09538	538–016 D 9–35
A6C84	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH

Replaceable Parts List for A6 Sampler Assembly, Part Number 08360–60007 (3 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6C85	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C86	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C87	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C88	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C89	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C9	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A6C90	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	02010	SA102A330JAAH
A6C91	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C92	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C93	0160–4802	1	CAP–FXD 82pF ±5% 100 V CER C0G	02010	SA102A820JAAH
A6C94	0160–4802	1	CAP–FXD 82pF ±5% 100 V CER C0G	02010	SA102A820JAAH
A6C95	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A6C96	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C97	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C98	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6C99	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A6CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR4	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR7	0122–0167	1	DIODE–VVC 29PF 10% C 3/C25–MIN=5	06121	BB409
A6CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A6J2	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A6J3	1250–0257	1	CONNECTOR–RF SMB M PC–W–STDFS 50–OHM	05769	051–351–0049–226
A6L10	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A6L11	9100–2430	1	INDUCTOR RF–CH–MLD 220UH ±10%	05826	1537–736
A6L12	9100–3548	1	INDUCTOR RF–CH–MLD 470NH ±5%	03273	15M470J
A6L13	9140–0395	1	INDUCTOR RF–CH–MLD 560NH ±5%	03273	15M560J
A6L14	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A6L15	9135–0073	1	INDUCTOR RF–CH–MLD 51NH ±6.596%	02172	
A6L16	9135–0081	1	INDUCTOR RF–CH–MLD 68NH ±5%	03273	10M068X–1
A6L17	9135–0079	1	INDUCTOR 100NH ±5.5% 2.6D–MMX6.6LG–MM	03273	10M0100X–1
A6L18	9135–0079	1	INDUCTOR 100NH ±5.5% 2.6D–MMX6.6LG–MM	03273	10M0100X–1
A6L19	9135–0081	1	INDUCTOR RF–CH–MLD 68NH ±5%	03273	10M068X–1
A6L2	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A6L20	9140–0452	1	INDUCTOR RF–CH–MLD 2.7UH ±5%	03273	15M–271J
A6L21	9140–0261	1	INDUCTOR RF–CH–MLD 100NH ±5%	03273	15M100J
A6L22	9140–0308	1	INDUCTOR RF–CH–MLD 120NH ±5%	03273	15M120J
A6L23	9140–0308	1	INDUCTOR RF–CH–MLD 120NH ±5%	03273	15M120J
A6L24	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A6L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A6L4	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A6L5	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A6L6	9140–0261	1	INDUCTOR RF–CH–MLD 100NH ±5%	03273	15M100J

Replaceable Parts List for A6 Sampler Assembly, Part Number 08360–60007 (4 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6L8	9100–2430	1	INDUCTOR RF–CH–MLD 220UH ±10%	05826	1537–736
A6L9	9100–2430	1	INDUCTOR RF–CH–MLD 220UH ±10%	05826	1537–736
A6MP10	2950–0216	1	NUT–HEX–DBL–CHAM 1/4–36–THD .062–IN–THK	12384	
A6MP11	08360–20036	1	RF SHIELD – BACK	28480	08360–20036
A6MP12	08360–20037	1	RF SHIELD – FRONT	28480	08360–20037
A6MP13	0515–1410	12	SCREW–MACHINE ASSEMBLY M3 X 0.5 20MM–LG	05610	
A6MP14	8160–0648	6	RFI ROUND STRIP CNDCT–ELSTMR .07–IN–OD	02923	10–04–1687–1285
A6MP15	0515–0664	2	SCREW–MACHINE ASSEMBLY M3 X 0.5 12MM–LG	05610	
A6MP16	0535–0004	2	NUT–HEX DBL–CHAM M3 X 0.5 2.9MM–THK	06691	
A6MP17	3050–0891	2	WASHER–FL MTLC 3.0 3.3–MM–ID 6.85–MM–OD	06691	
A6MP18	1401–0245	1	CAP–PROT STR FLG .24–ID .277–OD BLK	04726	
A6MP3	1205–0533	3	HEAT SINK SGL DIP	07179	580200B00000
A6MP5	1200–0173	2	INSULATOR–XSTR DAP–GL	02210	A–10001 DAP
A6MP6	0403–0621	1	EXTR–PC BD BLK NYL .062–IN–BD–THKNS	02123	91–2–BLACK–5
A6MP7	0403–0629	1	EXTR–PC BD BLU NYL .062–IN–BD–THKNS	02123	91–2–BLUE–2
A6MP8	86701–00054	2			
A6MP9	2190–0067	1	WASHER–LK INTL T 1/4 IN .256–IN–ID	04805	1914–05
A6P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A6P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A6Q1	1855–0518	1	TRANSISTOR MOSFET N–CHAN E–MODE SI	03038	IRFD110
A6Q10	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A6Q11	1854–0378	1	TRANSISTOR NPN 2N5109 SI TO–39 PD=800MW	02037	2N5109
A6Q12	1854–0720	1	TRANSISTOR NPN SI PD=500MW FT=4GHZ	06337	
A6Q13	1854–0378	1	TRANSISTOR NPN 2N5109 SI TO–39 PD=800MW	02037	2N5109
A6Q2	1854–0345	1	TRANSISTOR NPN 2N5179 SI TO–72 PD=200MW	02037	2N5179
A6Q3	1854–0378	1	TRANSISTOR NPN 2N5109 SI TO–39 PD=800MW	02037	2N5109
A6Q4	1853–0430	1	TRANSISTOR PNP 2N4959 SI TO–72 PD=200MW	02037	2N4959
A6Q5	1854–0345	1	TRANSISTOR NPN 2N5179 SI TO–72 PD=200MW	02037	2N5179
A6Q6	1854–0345	1	TRANSISTOR NPN 2N5179 SI TO–72 PD=200MW	02037	2N5179
A6Q7	1853–0430	1	TRANSISTOR PNP 2N4959 SI TO–72 PD=200MW	02037	2N4959
A6Q8	1855–0235	1	TRANSISTOR J–FET N–CHAN D–MODE TO–52 SI	02883	
A6Q9	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A6R1	0698–3434	1	RESISTOR 34.8 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R10	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R100	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R101	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R102	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R103	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R104	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R105	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R106	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R107	0698–3161	1	RESISTOR 38.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R108	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R109	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R11	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R110	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R111	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R112	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R113	0757–0180	1	RESISTOR 31.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R114	0757–0180	1	RESISTOR 31.6 ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A6 Sampler Assembly, Part Number 08360–60007 (5 of 7)

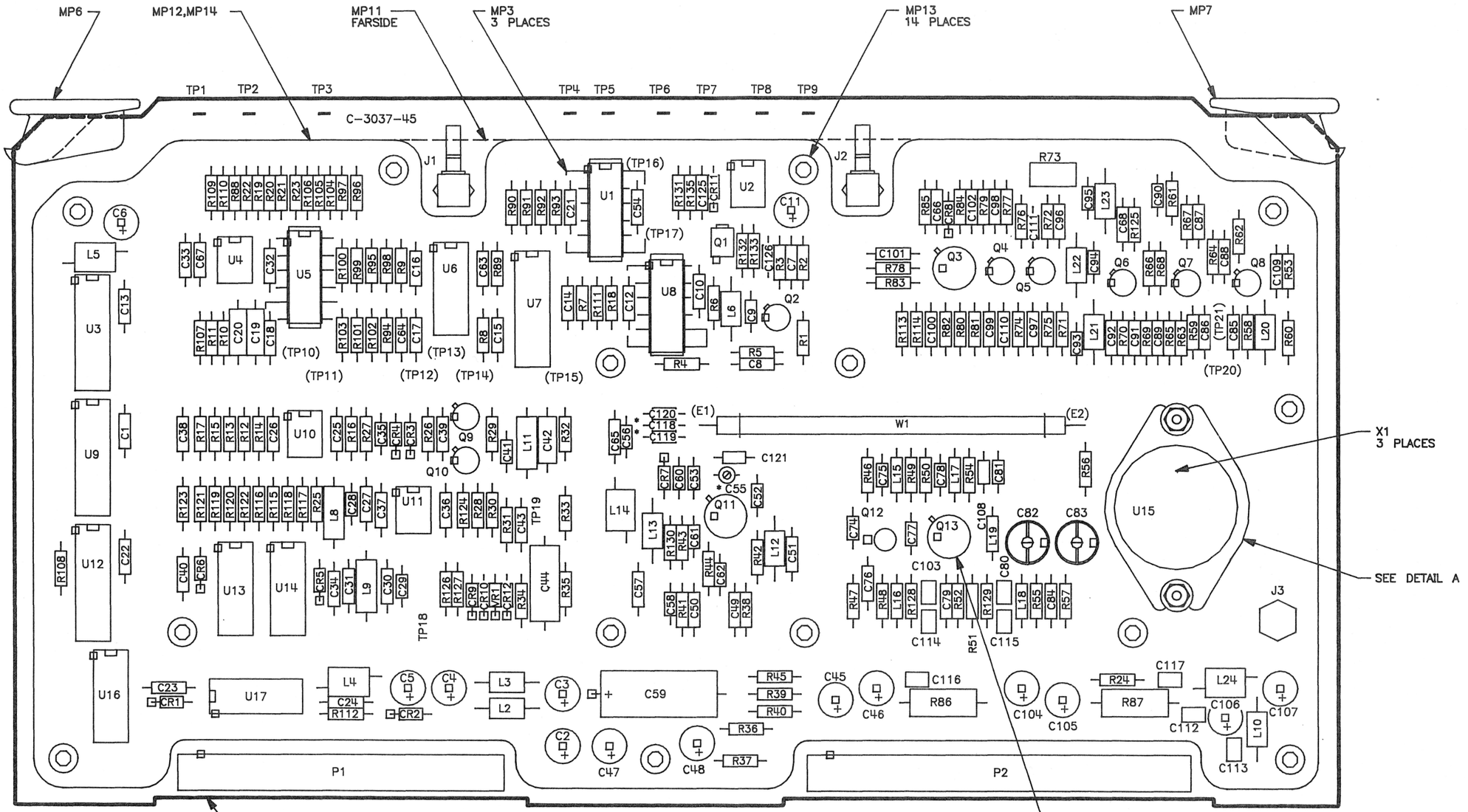
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6R115	0698–3457	1	RESISTOR 316K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R116	0698–3266	1	RESISTOR 237K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R117	0757–0470	1	RESISTOR 162K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R118	0757–0463	1	RESISTOR 82.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R119	0757–0458	1	RESISTOR 51.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R12	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R120	0698–3243	1	RESISTOR 178K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R121	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R122	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R123	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R124	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R125	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R126	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R127	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R128	0698–3437	1	RESISTOR 133 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R129	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R13	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R130	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R131	0757–0462	1	RESISTOR 75K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R132	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R133	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R135	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R14	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R15	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R16	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R17	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R18	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R19	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R2	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R20	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R21	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R22	0757–0289	1	RESISTOR 13.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R23	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R24	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R25	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R26	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R27	0757–0289	1	RESISTOR 13.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R28	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R29	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R3	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R30	0698–3443	1	RESISTOR 287 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R31	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R32	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R33	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R34	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R35	0698–3432	1	RESISTOR 26.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R36	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R37	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R38	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R39	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R4	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A6 Sampler Assembly, Part Number 08360–60007 (6 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6R40	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R41	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R42	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R43	0698–3439	1	RESISTOR 178 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R44	0698–3432	1	RESISTOR 26.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R45	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R46	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R47	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R48	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R49	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R5	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R50	0757–0422	1	RESISTOR 909 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R51	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R52	0757–0316	1	RESISTOR 42.2 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R53	0757–0276	1	RESISTOR 61.9 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R54	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R55	0698–0082	1	RESISTOR 464 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R56	0757–0398	1	RESISTOR 75 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R57	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R58	0698–3266	1	RESISTOR 237K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R59	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R6	0698–3439	1	RESISTOR 178 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R60	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R61	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R62	0757–0398	1	RESISTOR 75 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R63	0698–3442	1	RESISTOR 237 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R64	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R65	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R66	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R67	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R68	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R69	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R7	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R70	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R71	0757–0317	1	RESISTOR 1.33K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R72	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R73	2100–0552	1	RESISTOR–TRMR 50 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–500
A6R74	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R75	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R76	0757–0180	1	RESISTOR 31.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R77	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R78	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R79	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R8	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R80	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R81	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R82	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R83	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R84	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R85	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R86	0698–3631	1	RESISTOR 330 ±5% 2W MO TC=0±200	02499	GS–3

Replaceable Parts List for A6 Sampler Assembly, Part Number 08360–60007 (7 of 7)

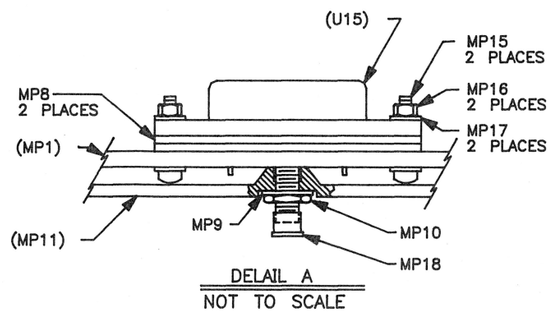
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6R87	0698–3626	1	RESISTOR 180 ±5% 2W MO TC=0±200	02499	GS–3
A6R88	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R89	0698–3442	1	RESISTOR 237 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R9	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R90	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R91	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R92	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R93	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R94	0698–3442	1	RESISTOR 237 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R95	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R96	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R97	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R98	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R99	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A6TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A6TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A6TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A6TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A6TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A6TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A6TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A6TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A6U1	1820–0817	1	IC FF ECL D–M/S DUAL	02037	MC10131P
A6U10	1826–0982	1	IC OP AMP LOW–NOISE 8 PIN DIP–C	02180	OP–37GZ (SELECTED)
A6U11	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27GZ
A6U12	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A6U13	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A6U14	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A6U15	5086–7846	1	SAMPLER – MICROCIRCUIT		
A6U16	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A6U17	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A6U2	1826–0961	1	IC OP AMP LOW–BIAS–H–IMPD 8 PIN DIP–P	03406	LF411CN
A6U3	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A6U4	1826–0065	1	IC COMPARATOR PRCN 8 PIN DIP–P	03406	LM311N
A6U5	1820–1344	1	IC MISC ECL	02037	MC12040L
A6U6	1820–0802	1	IC GATE ECL NOR QUAD 2–INP	02037	MC10102P
A6U7	08360–80005	1	IC – PAL		
A6U8	1820–2934	1	IC PRESCR ECL	02037	MC12009P
A6U9	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A6VR1	1902–0959	1	DIODE–ZNR 11V 5% DO–35 PD=.4W TC=+.076%	02037	
A6W1	08360–20041	1			
A6X1	1251–3172	3	CONNECTOR–SGL CONT SKT .03–IN–BSC–SZ RND	01380	2–331677–9



NOTES: UNLESS OTHERWISE SPECIFIED

1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
   SOLDERING PER A-5951-1585-1 (741.070F)
   REWORK PER A-5951-1586-1 (741.070G)

2. (*) DENOTES FACTORY SELECT PARTS. (C55,C118,C119)



DELAIL A
NOT TO SCALE

HEWLETT PACKARD

A6 Sampler

08360-60007

Ⓐ DIVIDE BY 5/6

Ⓑ LEVEL SHIFT

Ⓒ PHASE DETECTOR

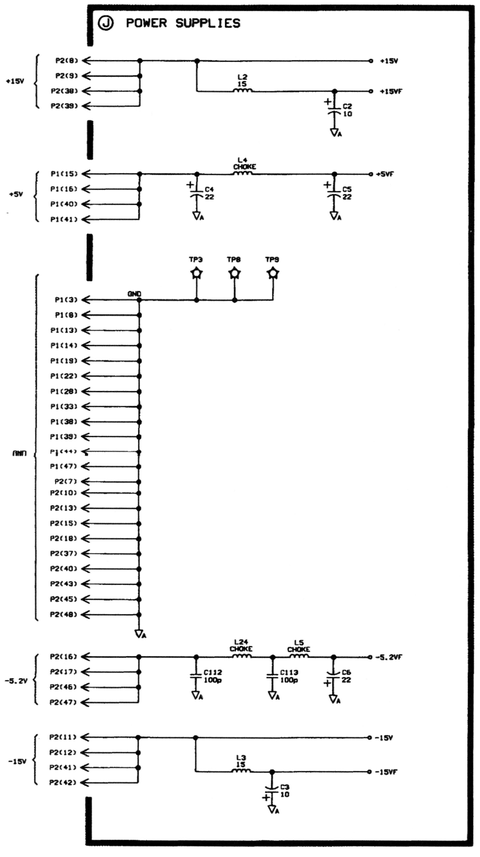
Ⓓ 500KHz LPF

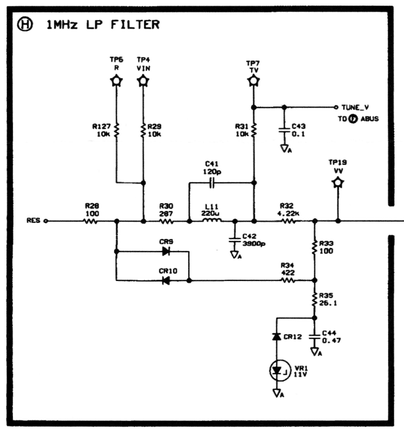
Ⓔ DIGITAL INTERFACE

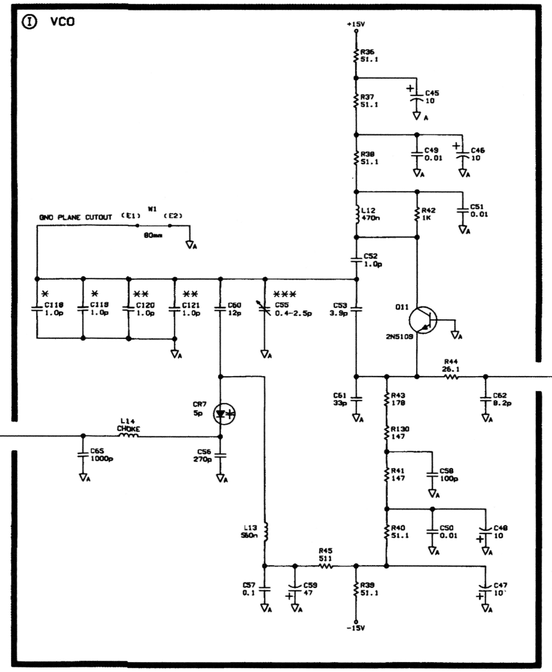
Ⓕ ABUS

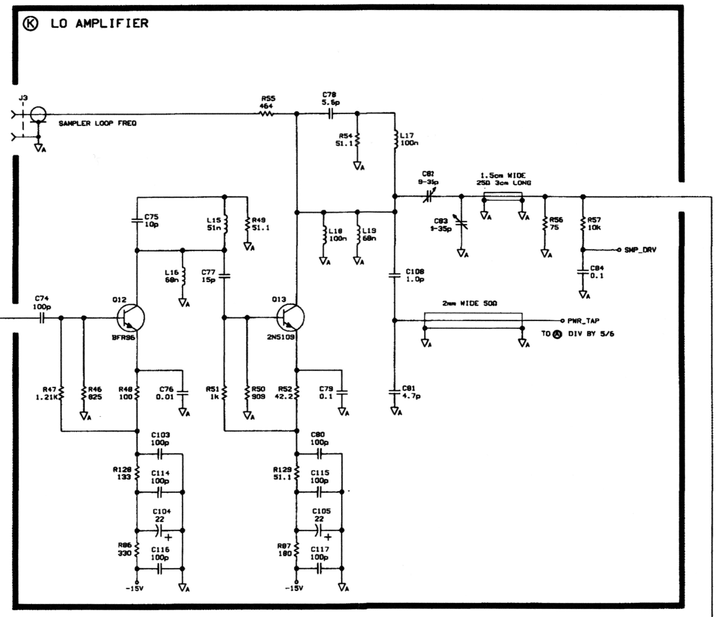
Ⓖ INTEGRATOR/GAIN CONTROL

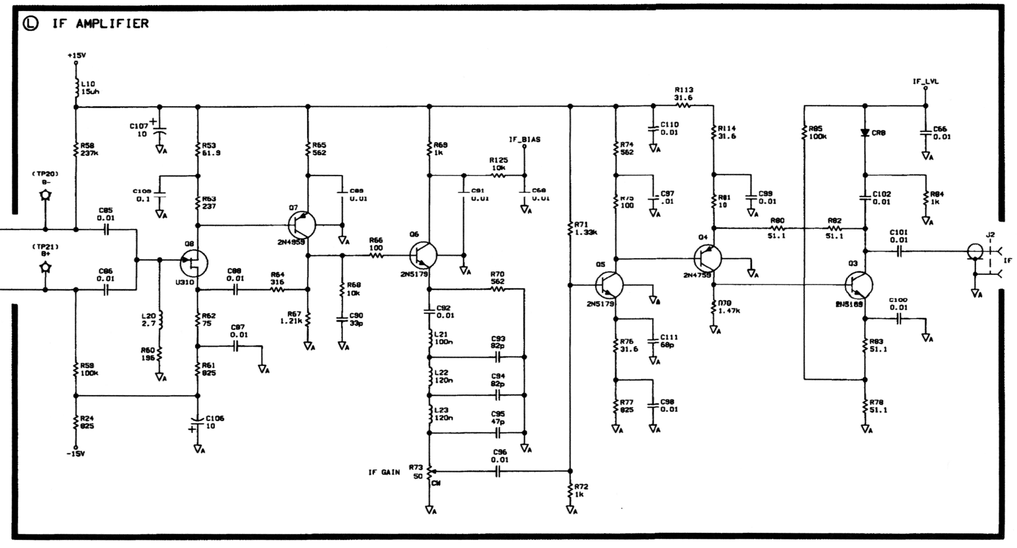
A6 Sampler
08360-60007
(SHEET 1 of 2)











NOTES: UNLESS OTHERWISE SPECIFIED.

1. ALL RESITOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MILLIHENRIES
4. TP10-17,20,21 FOR REFERENCE ONLY

REFERENCE DESIGNATORS	
LAST USED	NOT USED
C126	C69-73,122-124
CR12	
E2	
J3	
L24	L1.7
P2	
Q13	
R135	R134
TP21	
U17	
VR1	
W1	

* NOT CURRENTLY LOADED; FACTORY LOADED COMPONENTS

** FACTORY CLIPPED COMPONENTS

*** FACTORY SELECTED COMPONENT

FUNCTION	DEVICE ADDRESS	RD	WR
FREQ. CONTROL	400		X
CONTROL REGISTER	401		X
LOOP GAIN CONTROL	402		X

A6 Sampler
08360-60007
(SHEET 2 of 2)

Schematic Package for 08360-60214 A6 Sampler

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Replaceable Parts List for A6 Sampler Assembly, Part Number 08360–60214 (1 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6	08360–60214	1	BD AY–SAMPLER	28480	08360–60214
A6C1	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C2	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A6C3	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A6C4	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1
A6C5	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1
A6C6	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1
A6C7	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C8	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C9	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	09939	RPA10C0G101J100V
A6C10	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C11	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1
A6C12	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C13	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C14	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C15	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	09939	RPA20C0G102J100V
A6C16	0160–4385	1	CAP–FXD 15pF ±5% 200 V CER C0G	09939	RPE121–105C0G150J200V
A6C17	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C18	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C19	0160–4623	1	CAP–FXD 3900pF ±5% 100 V CER C0G	09939	RPA40C0G392J100V
A6C20	0160–4623	1	CAP–FXD 3900pF ±5% 100 V CER C0G	09939	RPA40C0G392J100V
A6C21	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C22	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C23	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C24	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C25	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C26	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C27	0160–4825	1	CAP–FXD 560pF ±5% 100 V CER C0G	09939	RPA10C0G561J100V
A6C28	0160–4808	1	CAP–FXD 470pF ±5% 100 V CER C0G	09939	RPA10C0G471J100V
A6C29	0160–4808	1	CAP–FXD 470pF ±5% 100 V CER C0G	09939	RPA10C0G471J100V
A6C30	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	09939	RPA20C0G102J100V
A6C31	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	09939	RPA20C0G102J100V
A6C32	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C33	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C34	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C35	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10COG330J100
A6C36	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C37	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C38	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C39	0160–4833	1	CAP–FXD 0.022uF ±10% 100 V CER X7R	09939	RPA20X7R223K100V
A6C40	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C41	0160–4800	1	CAP–FXD 120pF ±5% 100 V CER C0G	09939	RPA10C0G121J100V
A6C42	0160–4623	1	CAP–FXD 3900pF ±5% 100 V CER C0G	09939	RPA40C0G392J100V
A6C43	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C44	0160–3829	1	CAP–0.47uF ±10% 50 V POLYC–MET	05176	HEW–249

Replaceable Parts List for A6 Sampler Assembly, Part Number 08360–60214 (2 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6C45	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A6C46	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A6C47	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A6C48	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A6C49	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C50	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C51	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C52	0160–5896	1	CAP–FXD 1pF ±25% 100 V CER C0G		
A6C53	0160–4796	1	CAP–FXD 3.9pF ±6.4% 100 V CER C0G	09939	RPA10C0G3R9C100
A6C54	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C56	0160–4811	1	CAP–FXD 270pF ±5% 100 V CER C0G	09939	RPA10C0G271J100V
A6C57	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C58	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	09939	RPA10C0G101J100V
A6C59	0180–4169	1	CAP–FXD 47uF ±10% 35 V TA		
A6C60	0160–4790	1	CAP–FXD 12pF ±5% 100 V CER C0G	09939	RPA10C0G120J100
A6C61	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10COG330J100
A6C62	0160–4792	1	CAP–FXD 8.2pF ±6.1% 100 V CER C0G	09939	RPA10C0G8R2D100
A6C63	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C64	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C65	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	09939	RPA20C0G102J100V
A6C66	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C67	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C68	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C74	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	09939	RPA10C0G101J100V
A6C75	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	09939	RPA10C0G100D100
A6C76	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C77	0160–4789	1	CAP–FXD 15pF ±5% 100 V CER C0G	09939	RPA10C0G150J100
A6C78	0160–4794	1	CAP–FXD 5.6pF ±8.92% 100 V CER C0G	09939	RPA10C0G5R6D100PT
A6C79	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C80	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	09939	RPE121–105C0G101J200V
A6C81	0160–4795	1	CAP–FXD 4.7pF ±10.64% 100 V CER C0G	09939	RPA10C0G4R7D100
A6C82	0121–0046	1	CAP–VAR 35pF 9pF 200 V CER	09538	538–016 D 9–35
A6C83	0121–0046	1	CAP–VAR 35pF 9pF 200 V CER	09538	538–016 D 9–35
A6C84	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C85	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C86	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C87	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C88	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C89	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C90	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10COG330J100
A6C91	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C92	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C93	0160–4802	1	CAP–FXD 82pF ±5% 100 V CER C0G	09939	RPA10COG820J100V
A6C94	0160–4802	1	CAP–FXD 82pF ±5% 100 V CER C0G	09939	RPA10COG820J100V
A6C95	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	09939	RPA10C0G470J100V
A6C96	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V

Replaceable Parts List for A6 Sampler Assembly, Part Number 08360–60214 (3 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6C97	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C98	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C99	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C100	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C101	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C102	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C103	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	09939	RPE121–105C0G101J200V
A6C104	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1
A6C105	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1
A6C106	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A6C107	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A6C108	0160–5896	1	CAP–FXD 1pF ±25% 100 V CER C0G		
A6C109	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C110	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	09939	RPA10X7R103K100V
A6C111	0160–4803	1	CAP–FXD 68pF ±5% 100 V CER C0G	09939	RPA10C0G680J100V
A6C112	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	09939	RPE121–105C0G101J200V
A6C113	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	09939	RPE121–105C0G101J200V
A6C114	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	09939	RPE121–105C0G101J200V
A6C115	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	09939	RPE121–105C0G101J200V
A6C116	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	09939	RPE121–105C0G101J200V
A6C117	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	09939	RPE121–105C0G101J200V
A6C118	0160–5896	1	CAP–FXD 1pF ±25% 100 V CER C0G		
A6C119	0160–5896	1	CAP–FXD 1pF ±25% 100 V CER C0G		
A6C120	0160–5896	1	CAP–FXD 1pF ±25% 100 V CER C0G		
A6C121	0160–5896	1	CAP–FXD 1pF ±25% 100 V CER C0G		
A6C125	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A6C126	0160–4831	1	CAP–FXD 4700pF ±10% 100 V CER X7R	09939	RPA10X7R472K100V
A6C127	0160–4385	1	CAP–FXD 15pF ±5% 200 V CER C0G	09939	RPE121–105C0G150J200V
A6CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR4	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR7	0122–0167	1	DIODE–VVC 29PF 10% C 3/C25–MIN=5		
A6CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A6J1	1250–0543	1	CONNECTOR–RF SMB PLUG PC–W/O–STDF 50–OHM		
A6J2	1250–0543	1	CONNECTOR–RF SMB PLUG PC–W/O–STDF 50–OHM		
A6J3	1250–0257	1	CONNECTOR–RF SMB PLUG PC–W–STDFS 50–OHM		
A6L2	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03706	21501M–5%
A6L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03706	21501M–5%
A6L4	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB

Replaceable Parts List for A6 Sampler Assembly, Part Number 08360–60214 (4 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6L5	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A6L6	9140–0261	1	INDUCTOR RF–CH–MLD 100NH ±5%	03706	21003M–5%
A6L8	9100–2430	1	INDUCTOR RF–CH–MLD 220UH ±10%	05826	1537–736
A6L9	9100–2430	1	INDUCTOR RF–CH–MLD 220UH ±10%	05826	1537–736
A6L10	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03706	21501M–5%
A6L11	9100–2430	1	INDUCTOR RF–CH–MLD 220UH ±10%	05826	1537–736
A6L12	9100–3548	1	INDUCTOR RF–CH–MLD 470NH ±5%	03706	24703M–5%
A6L13	9140–0395	1	INDUCTOR RF–CH–MLD 560NH ±5%	03706	25603M–5%
A6L14	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A6L15	9135–0073	1	INDUCTOR RF–CH–MLD 51NH ±6.596%	02172	
A6L16	9135–0081	1	INDUCTOR RF–CH–MLD 68NH ±5%	02172	010150–056J
A6L17	9135–0079	1	INDUCTOR 100NH ±5.5% 2.6D–MMX6.6LG–MM	03273	10M0100X–1
A6L18	9135–0079	1	INDUCTOR 100NH ±5.5% 2.6D–MMX6.6LG–MM	03273	10M0100X–1
A6L19	9135–0081	1	INDUCTOR RF–CH–MLD 68NH ±5%	02172	010150–056J
A6L20	9140–0452	1	INDUCTOR RF–CH–MLD 2.7UH ±5%	03706	22702M–5%
A6L21	9140–0261	1	INDUCTOR RF–CH–MLD 100NH ±5%	03706	21003M–5%
A6L22	9140–0308	1	INDUCTOR RF–CH–MLD 120NH ±5%	03706	21203M–5%
A6L23	9140–0308	1	INDUCTOR RF–CH–MLD 120NH ±5%	03706	21203M–5%
A6L24	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A6L25	9100–3551	1	INDUCTOR RF–CH–MLD 1UH ±5%	03706	21002M–5%
A6MP3	1205–0533	3	HEAT SINK SGL DIP	07179	580200B00000
A6MP5	1200–0173	2	INSULATOR–XSTR DAP–GL	02210	A–10001 DAP
A6MP6	0403–0621	1	EXTR–PC BD BLK NYL .062–IN–BD–THKNS	02123	91–2–BLACK–5
A6MP7	0403–0629	1	EXTR–PC BD BLU NYL .062–IN–BD–THKNS	02123	91–2–BLUE–2
A6MP8	86701–00054	2	SPACER – SAMPLER		
A6MP9	2190–0067	1	WASHER–LK INTL T 1/4 IN .256–IN–ID	04805	1914–05
A6MP10	2950–0216	1	NUT–HEX–DBL–CHAM 1/4–36–THD .062–IN–THK	12384	
A6MP11	08360–20036	1	RF SHIELD – BACK	28480	08360–20036
A6MP12	08360–20037	1	RF SHIELD – FRONT	28480	08360–20037
A6MP13	0515–1410	14	SCREW–MACHINE ASSEMBLY M3 X 0.5 20MM–LG	05610	
A6MP14	8160–0648	6	RFI ROUND STRIP CNDCT–ELSTMR .07–IN–OD	02923	10–04–1687–1285
A6MP15	0515–0664	2	SCREW–MACHINE ASSEMBLY M3 X 0.5 12MM–LG	05610	
A6MP16	0535–0004	2	NUT–HEX DBL–CHAM M3 X 0.5 2.9MM–THK	06691	
A6MP17	3050–0891	2	WASHER–FL MTLC 3.0 3.3–MM–ID 6.85–MM–OD	06691	
A6MP18	1401–0245	1	CAP–PROT STR FLG .24–ID .277–OD BLK	04726	
A6P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT		
A6P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT		
A6Q1	1855–0518	1	TRANSISTOR MOSFET N–CHAN E–MODE SI	03038	IRFD110
A6Q2	1854–0345	1	TRANSISTOR NPN 2N5179 SI TO–72 PD=200MW	02037	2N5179
A6Q3	1854–0378	1	TRANSISTOR NPN 2N5109 SI TO–39 PD=800MW	02037	2N5109
A6Q4	1853–0430	1	TRANSISTOR PNP 2N4959 SI TO–72 PD=200MW	02037	2N4959
A6Q5	1854–0345	1	TRANSISTOR NPN 2N5179 SI TO–72 PD=200MW	02037	2N5179
A6Q6	1854–0345	1	TRANSISTOR NPN 2N5179 SI TO–72 PD=200MW	02037	2N5179
A6Q7	1853–0430	1	TRANSISTOR PNP 2N4959 SI TO–72 PD=200MW	02037	2N4959
A6Q8	1855–0235	1	TRANSISTOR J–FET N–CHAN D–MODE TO–52 SI	02883	
A6Q9	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A

Replaceable Parts List for A6 Sampler Assembly, Part Number 08360–60214 (5 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6Q10	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A6Q11	1854–0378	1	TRANSISTOR NPN 2N5109 SI TO–39 PD=800MW	02037	2N5109
A6Q12	1854–0720	1	TRANSISTOR NPN SI PD=500MW FT=4GHZ	06337	BFR96S/02
A6Q13	1854–0378	1	TRANSISTOR NPN 2N5109 SI TO–39 PD=800MW	02037	2N5109
A6R1	0698–3434	1	RESISTOR 34.8 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R2	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R3	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R4	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R5	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R6	0698–3439	1	RESISTOR 178 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R7	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R8	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R9	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R10	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R11	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R12	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R13	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R14	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R15	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R16	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R17	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R18	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R19	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R20	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R21	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R22	0757–0289	1	RESISTOR 13.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R23	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R24	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R25	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R26	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R27	0757–0289	1	RESISTOR 13.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R28	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R29	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R30	0698–3443	1	RESISTOR 287 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R31	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R32	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R33	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R34	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R35	0698–3432	1	RESISTOR 26.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R36	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R37	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R38	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R39	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R40	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R41	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R42	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A6 Sampler Assembly, Part Number 08360–60214 (6 of 8)

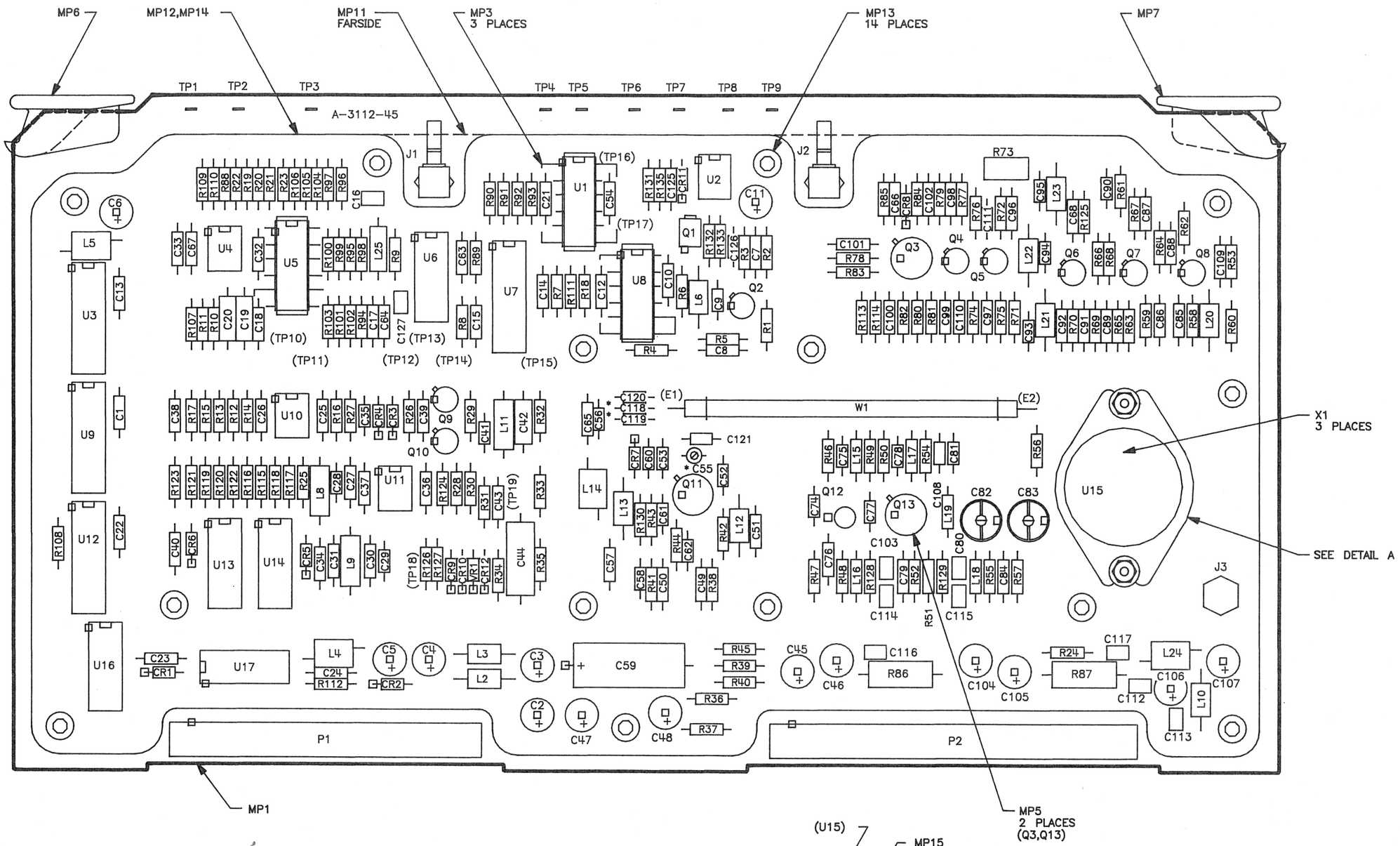
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6R43	0698–3439	1	RESISTOR 178 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R44	0698–3432	1	RESISTOR 26.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R45	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R46	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R47	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R48	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R49	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R50	0757–0422	1	RESISTOR 909 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R51	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R52	0757–0316	1	RESISTOR 42.2 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R53	0757–0276	1	RESISTOR 61.9 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R54	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R55	0698–0082	1	RESISTOR 464 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R56	0757–0398	1	RESISTOR 75 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R57	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R58	0698–3266	1	RESISTOR 237K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R59	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R60	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R61	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R62	0757–0398	1	RESISTOR 75 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R63	0698–3442	1	RESISTOR 237 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R64	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R65	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R66	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R67	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R68	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R69	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R70	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R71	0757–0317	1	RESISTOR 1.33K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R72	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R73	2100–0552	1	RESISTOR–TRMR 50 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–500
A6R74	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R75	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R76	0757–0180	1	RESISTOR 31.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R77	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R78	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R79	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R80	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R81	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R82	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R83	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R84	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R85	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R86	0698–3631	1	RESISTOR 330 ±5% 2W MO TC=0±200	02499	GS–3
A6R87	0698–3626	1	RESISTOR 180 ±5% 2W MO TC=0±200	02499	GS–3
A6R88	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A6 Sampler Assembly, Part Number 08360–60214 (7 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6R89	0698–3442	1	RESISTOR 237 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R90	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R91	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R92	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R93	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R94	0698–3442	1	RESISTOR 237 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R95	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R96	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R97	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R98	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R99	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R100	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R101	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R102	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R103	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R104	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R105	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R106	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R107	0698–3161	1	RESISTOR 38.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R108	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R109	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R110	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R111	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R112	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R113	0757–0180	1	RESISTOR 31.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R114	0757–0180	1	RESISTOR 31.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R115	0698–3457	1	RESISTOR 316K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R116	0698–3266	1	RESISTOR 237K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R117	0757–0470	1	RESISTOR 162K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R118	0757–0463	1	RESISTOR 82.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R119	0757–0458	1	RESISTOR 51.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R120	0698–3243	1	RESISTOR 178K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R121	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R122	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R123	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R124	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R125	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R126	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R127	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R128	0698–3437	1	RESISTOR 133 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R129	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R130	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R131	0757–0462	1	RESISTOR 75K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R132	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R133	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A6R135	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A6 Sampler Assembly, Part Number 08360–60214 (8 of 8)

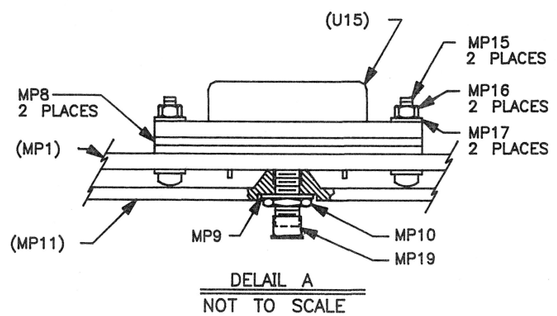
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A6TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A6TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A6TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A6TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A6TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A6TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A6TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A6TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A6TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A6U1	1820–0817	1	IC FF ECL D–M/S DUAL	02037	MC10131P
A6U2	1826–0961	1	IC OP AMP LOW–BIAS–H–IMPD 8 PIN DIP–P	03406	LF411CN
A6U3	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A6U4	1826–0065	1	IC COMPARATOR PRCN 8 PIN DIP–P	03406	LM311N
A6U5	1820–1344	1	IC MISC ECL	02037	MC12040L
A6U6	1820–0802	1	IC GATE ECL NOR QUAD 2–INP	02037	MC10102P
A6U7	08360–80005	1	PROG. LOGIC ARRAY		
A6U8	1820–2934	1	IC PRESCR ECL	02037	MC12009P
A6U9	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A6U10	1826–0982	1	IC OP AMP LOW–NOISE 8 PIN DIP–C	03285	OP–37GZ (SELECTED)
A6U11	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A6U12	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A6U13	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A6U14	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A6U15	5086–7846	1	SAMPLER		
A6U16	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138AN
A6U17	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A6VR1	1902–0959	1	DIODE–ZNR 11V 5% DO–35 PD=.4W TC=+.076%	02037	SZ30035–1
A6W1	08360–20041	1	RF CABLE – 80 MM		
A6X1	1251–3172	3	CONNECTOR–SGL CONT SKT .03–IN–BSC–SZ RND	01380	2–331677–9



NOTES: UNLESS OTHERWISE SPECIFIED

1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
   SOLDERING PER A-5951-1585-1 (741.070F)
   REWORK PER A-5951-1586-1 (741.070G)

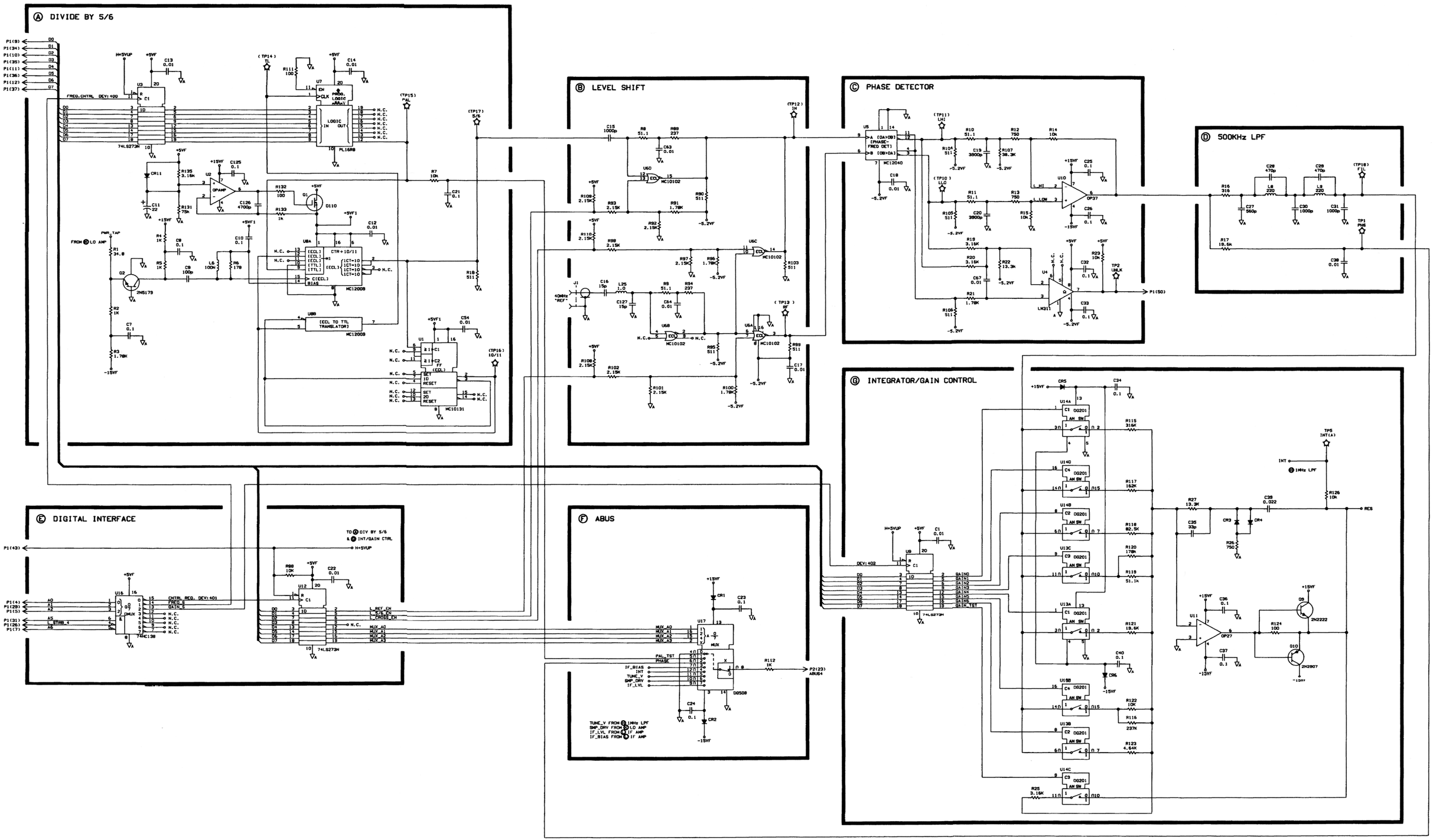
2. (*) DENOTES FACTORY SELECT PARTS. (C55,C118,C119)



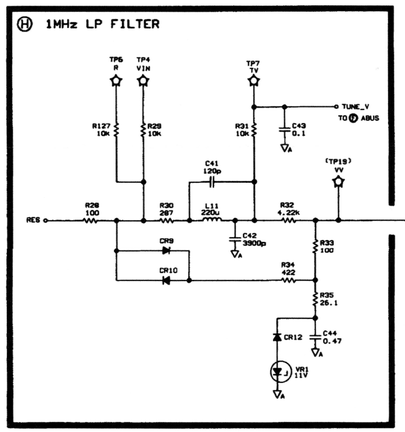
DELAIL A
NOT TO SCALE

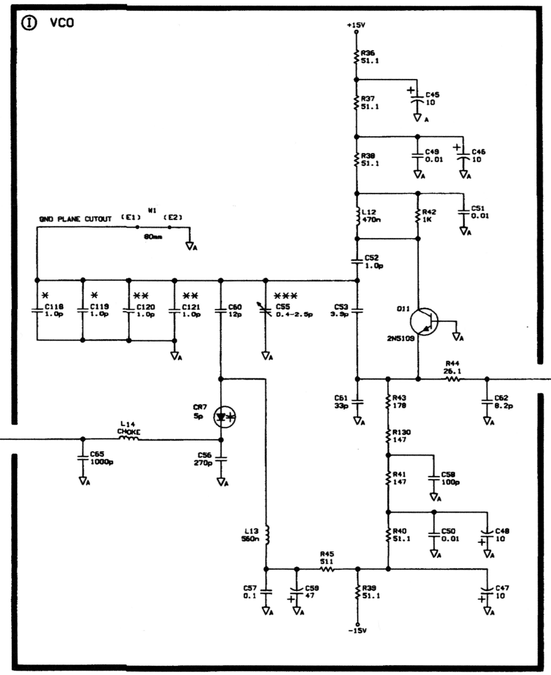
HEWLETT PACKARD

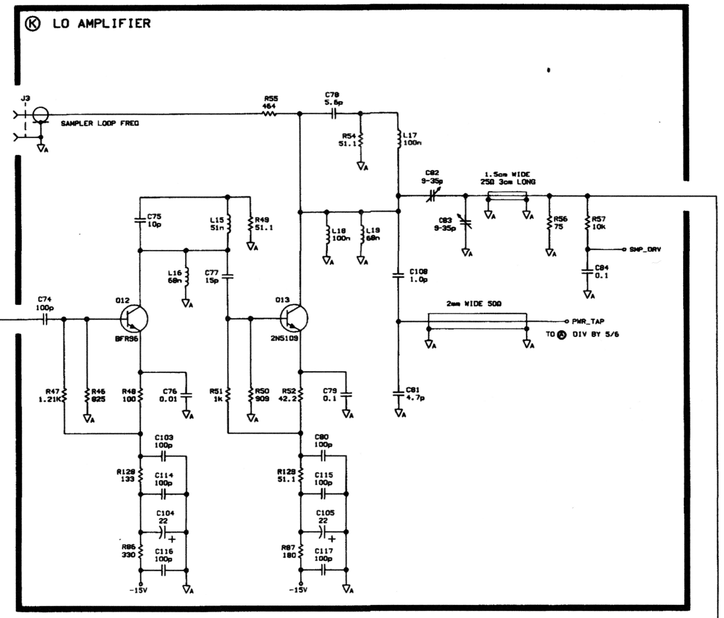
A6 Sampler
08360-60214

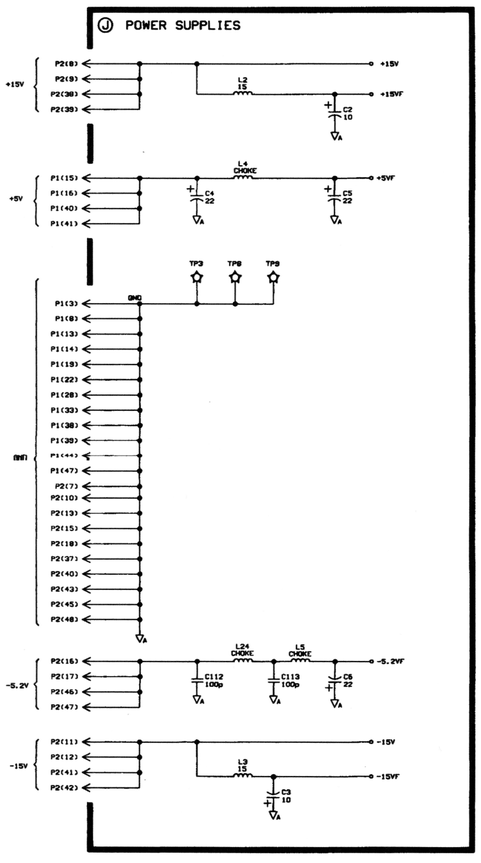


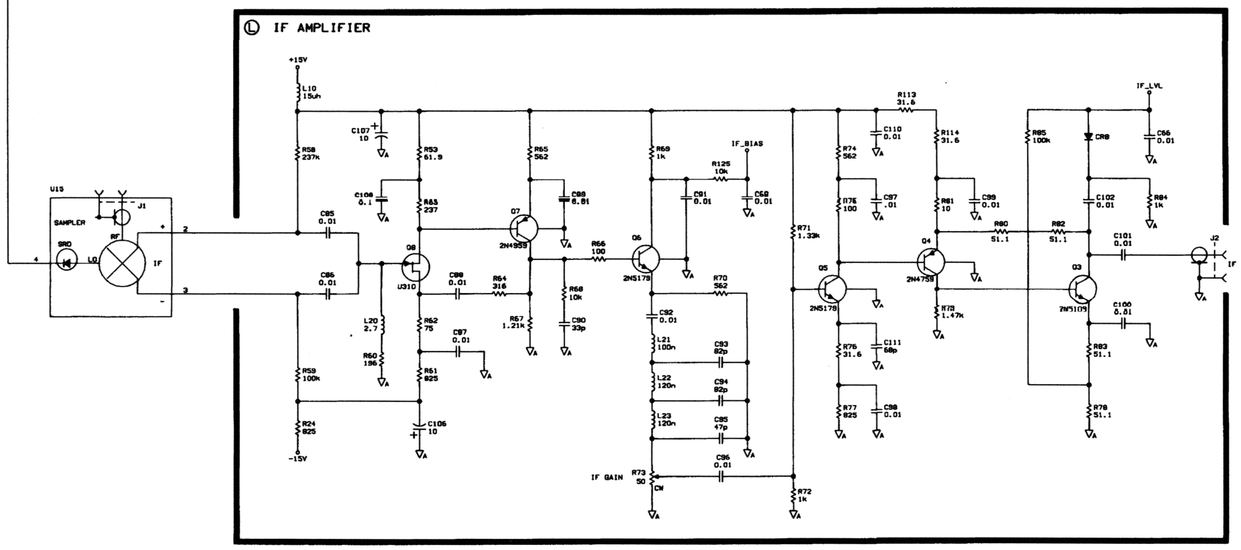
A6 Sampler
08360-60214
(SHEET 1 of 2)











NOTES: UNLESS OTHERWISE SPECIFIED.

1. ALL RESITOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MILLIHENRIES

REFERENCE DESIGNATORS	
LAST USED	NOT USED
C127	C59-73,122-124
CR12	
C2	
J3	L1,7
L25	
P2	
Q13	R134
R135	
TP19	
U17	
VR1	
W1	

* NOT CURRENTLY LOADED; FACTORY LOADED COMPONENTS

** FACTORY CLIPPED COMPONENTS

*** FACTORY SELECTED COMPONENT

FUNCTION	DEVICE ADDRESS	RD	WR
FREQ. CONTROL	400		X
CONTROL REGISTER	401		X
LOOP GAIN CONTROL	402		X

A6 Sampler
08360-60214
(SHEET 2 of 2)

Schematic Package for 08360-60008 A7 Reference

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Replaceable Parts List for A7 Reference Assembly, Part Number 08360–60008 (1 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A7	08360–60008	1	BD AY–REFERENCE	28480	08360–60008
A7C1	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C2	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C3	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A7C4	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C5	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C6	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C7	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C8	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C9	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C10	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C11	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A7C12	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A7C13	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A7C14	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A7C15	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A7C16	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A7C17	0160–4830	1	CAP–FXD 2200pF ±10% 100 V CER X7R	02010	SA101C222KAAH
A7C18	0160–4830	1	CAP–FXD 2200pF ±10% 100 V CER X7R	02010	SA101C222KAAH
A7C19	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A7C20	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A7C21	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A7C22	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C23	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C24	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A7C25	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A7C26	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A7C27	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A7C28	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A7C29	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A7C30	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A7C31	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A7C32	0160–4789	1	CAP–FXD 15pF ±5% 100 V CER C0G	02010	SA102A150JAAH
A7C33	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C34	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C35	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C36	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C37	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A7C38	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A7C39	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A7C40	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A7C41	0160–4803	1	CAP–FXD 68pF ±5% 100 V CER C0G	02010	SA102A680JAAH
A7C42	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A7C43	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A7C44	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A7C45	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH

Replaceable Parts List for A7 Reference Assembly, Part Number 08360–60008 (2 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A7C46	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A7C47	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A7C48	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A7C49	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A7C50	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A7C51	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A7C52	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A7C53	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A7C54	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C55	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C56	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A7C57	0160–5871	1	CAP–FXD 510pF ±1% 100 V CER C0G	09939	RPA20C0G511F100V
A7C58	0160–5871	1	CAP–FXD 510pF ±1% 100 V CER C0G	09939	RPA20C0G511F100V
A7C59	0160–4812	1	CAP–FXD 220pF ±5% 100 V CER C0G	02010	SA101A221JAAH
A7C60	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A7C61	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A7C62	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A7C63	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A7C64	0160–6359	1	CAP–FXD 0.22uF ±5% 100 V POLYP–MET	05176	X363UW–.22–500VDC
A7C65	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A7C66	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A7C67	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A7C68	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A7C69	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A7C70	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A7C71	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C72	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C73	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C74	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C100	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A7C101	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A7C102	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A7C103	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A7C104	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A7C105	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A7C106	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A7C111	0160–4810	1	CAP–FXD 330pF ±5% 100 V CER C0G	02010	SA101A331JAAH
A7C112	0160–4810	1	CAP–FXD 330pF ±5% 100 V CER C0G	02010	SA101A331JAAH
A7CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A7CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A7CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A7CR4	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A7CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A7CR6	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A7CR7	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510

Replaceable Parts List for A7 Reference Assembly, Part Number 08360–60008 (3 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A7CR8	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A7CR9	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A7CR10	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A7CR12	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A7CR13	0122–0161	1	DIODE–VVC 2.15PF 7% C 3/C25–MIN=4.5	06121	BB505B
A7CR14	0122–0161	1	DIODE–VVC 2.15PF 7% C 3/C25–MIN=4.5	06121	BB505B
A7CR15	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A7CR16	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A7CR19	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A7CR20	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A7CR21	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A7CR22	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A7CR23	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A7CR24	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A7CR25	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A7J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A7J2	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A7J3	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A7J4	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A7J5	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A7J6	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A7J7	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A7L1	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A7L2	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A7L3	9170–1276	1	CORE–FERRITE WIDE–BAND CHOKE; Z:750 OHMS	06337	VK 200 10/3B
A7L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A7L5	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A7L6	9170–1276	1	CORE–FERRITE WIDE–BAND CHOKE; Z:750 OHMS	06337	VK 200 10/3B
A7L7	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A7L8	9100–3551	1	INDUCTOR RF–CH–MLD 1UH ±5%	03273	15M101J
A7L9	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A7L10	9140–0797	1	INDUCTOR 87NH ±5% .23W–INX.38LG–IN Q=66	01886	BUGS/132–7.5T
A7L11	9100–3551	1	INDUCTOR RF–CH–MLD 1UH ±5%	03273	15M101J
A7L12	9140–0797	1	INDUCTOR 87NH ±5% .23W–INX.38LG–IN Q=66	01886	BUGS/132–7.5T
A7L13	9100–2256	1	INDUCTOR RF–CH–MLD 560NH ±10%	03273	10M560K
A7L14	9140–1218	1	INDUCTOR 475NH ±5% .23W–INX.38LG–IN	01886	BUGS/132–17.5T
A7L15	9140–0797	1	INDUCTOR 87NH ±5% .23W–INX.38LG–IN Q=66	01886	BUGS/132–7.5T
A7L16	9140–0142	1	INDUCTOR RF–CH–MLD 2.2UH ±10%	05826	1025–28
A7L17	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A7L18	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A7L19	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A7L20	9170–1276	1	CORE–FERRITE WIDE–BAND CHOKE; Z:750 OHMS	06337	VK 200 10/3B
A7L21	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A7L23	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A7MP2	1205–0644	1	HEAT SINK PLSTC–PWR–CS	02608	6084B–SE–3

Replaceable Parts List for A7 Reference Assembly, Part Number 08360–60008 (4 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A7MP3	0403–0621	1	EXTR–PC BD BLK NYL .062–IN–BD–THKNS	02123	91–2–BLACK–5
A7MP4	0403–0624	1	EXTR–PC BD VIO NYL .062–IN–BD–THKNS	02123	91–2–VIOLET–7
A7MP5	08360–20054	1	RF SHIELD – BACK	28240	08360–20054
A7MP6	08360–20055	1	RF SHIELD – FRONT	28240	08360–20055
A7MP7	1200–0173	1	INSULATOR–XSTR DAP–GL	02210	A–10001 DAP
A7MP8	2260–0001	1	NUT–HEX–DBL–CHAM 4–40–THD .094–IN–THK	04939	
A7MP9	3050–0874	1	WASHER–SPR BLVL NO. 4 .1195–IN–ID	02037	B52200F006
A7MP10	0515–1410	10	SCREW–MACHINE ASSEMBLY M3 X 0.5 20MM–LG	05610	
A7MP11	8160–0648	6	RFI ROUND STRIP CNDCT–ELSTMR .07–IN–OD	02923	10–04–1687–1285
A7MP12	1205–0095	1	HEAT SINK SGL TO–5/TO–39–CS	02608	2225B
A7P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A7P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A7Q1	1853–0036	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A7Q2	1853–0036	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A7Q3	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A7Q4	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A7Q5	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A7Q6	1854–0809	1	TRANSISTOR NPN 2N2369A SI TO–18 PD=360MW	02037	2N2369A
A7Q7	1854–1063	1	TRANSISTOR NPN SI TO–72 PD=200MW FT=1GHZ	02037	BFY90
A7Q8	1854–1063	1	TRANSISTOR NPN SI TO–72 PD=200MW FT=1GHZ	02037	BFY90
A7Q9	1854–1063	1	TRANSISTOR NPN SI TO–72 PD=200MW FT=1GHZ	02037	BFY90
A7Q10	1854–1063	1	TRANSISTOR NPN SI TO–72 PD=200MW FT=1GHZ	02037	BFY90
A7Q11	1854–1063	1	TRANSISTOR NPN SI TO–72 PD=200MW FT=1GHZ	02037	BFY90
A7Q12	1854–1063	1	TRANSISTOR NPN SI TO–72 PD=200MW FT=1GHZ	02037	BFY90
A7Q13	1855–0278	1	TRANSISTOR J–FET 2N5116 P–CHAN D–MODE	03406	2N5116
A7Q14	1853–0213	1	TRANSISTOR PNP 2N4236 SI TO–5 PD=1W	02037	2N4236
A7Q15	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A7Q16	1853–0398	1	TRANSISTOR PNP SI PD=15W FT=65MHZ	02037	MJE 210
A7R1	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R2	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R3	0698–3442	1	RESISTOR 237 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R4	0698–3442	1	RESISTOR 237 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R5	0698–3442	1	RESISTOR 237 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R6	0698–3442	1	RESISTOR 237 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R7	0698–3439	1	RESISTOR 178 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R8	0698–3439	1	RESISTOR 178 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R9	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R10	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R12	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R13	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R14	0757–0398	1	RESISTOR 75 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R15	0757–0398	1	RESISTOR 75 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R16	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R17	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R18	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A7 Reference Assembly, Part Number 08360–60008 (5 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A7R19	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R20	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R21	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R22	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R23	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R24	0698–0083	1	RESISTOR 1.96K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R25	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R26	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R27	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R28	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R29	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R30	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R31	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R32	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R33	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R34	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R35	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R36	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R37	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R38	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R39	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R40	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R41	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R42	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R43	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R44	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R45	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R46	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R47	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R48	0757–0405	1	RESISTOR 162 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R49	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R50	0698–3442	1	RESISTOR 237 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R51	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R52	0698–0085	1	RESISTOR 2.61K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R53	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R54	0698–0083	1	RESISTOR 1.96K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R55	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R56	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R57	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R58	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R59	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R60	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R61	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R62	0698–3446	1	RESISTOR 383 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R63	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A7 Reference Assembly, Part Number 08360–60008 (6 of 8)

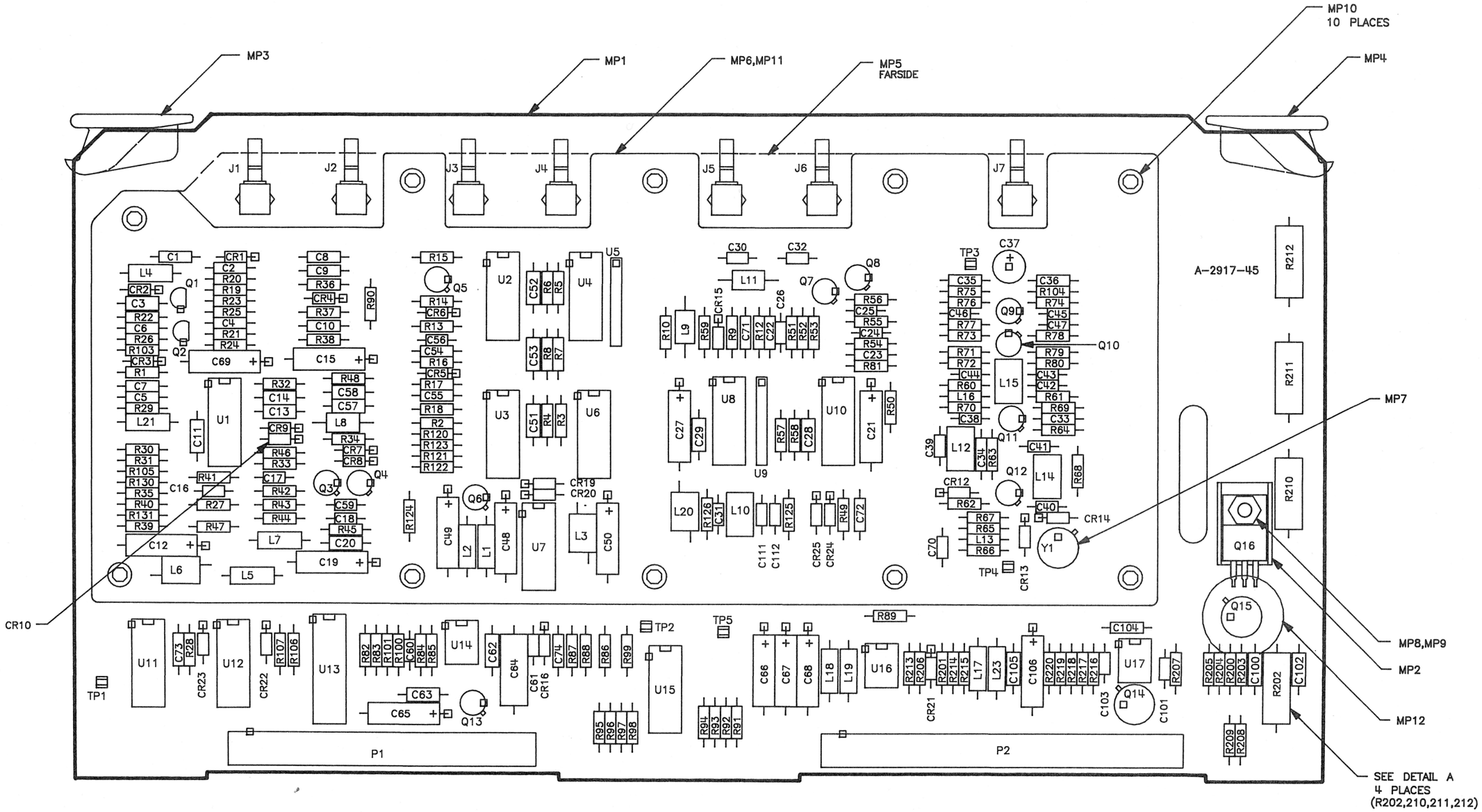
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A7R64	0757–0418	1	RESISTOR 619 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R65	0757–0382	1	RESISTOR 16.2 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R66	0698–3162	1	RESISTOR 46.4K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R67	0698–3162	1	RESISTOR 46.4K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R68	0698–3162	1	RESISTOR 46.4K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R69	0757–0418	1	RESISTOR 619 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R70	0757–0398	1	RESISTOR 75 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R71	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R72	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R73	0757–0418	1	RESISTOR 619 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R74	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R75	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R76	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R77	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R78	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R79	0757–0418	1	RESISTOR 619 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R80	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R81	0757–0382	1	RESISTOR 16.2 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R82	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R83	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R84	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R85	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R86	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R87	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R88	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R89	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R90	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R91	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R92	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R93	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R94	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R95	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R96	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R97	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R98	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R99	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R100	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R101	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R103	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R104	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R105	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R106	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R107	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R120	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R121	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A7 Reference Assembly, Part Number 08360–60008 (7 of 8)

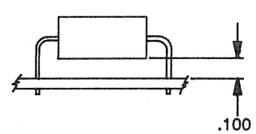
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A7R122	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R123	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R124	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R125	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R126	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R130	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R131	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R200	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R201	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R202	0811–1000	1	RESISTOR 68 ±5% 3W PWI TC=0±20	05524	RS–2B
A7R203	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R204	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R205	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R206	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R207	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R208	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R209	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R210	0811–1718	1	RESISTOR 10 ±5% 3W PWI TC=0±20	05524	CW–2B–39
A7R211	0811–1718	1	RESISTOR 10 ±5% 3W PWI TC=0±20	05524	CW–2B–39
A7R212	0811–1718	1	RESISTOR 10 ±5% 3W PWI TC=0±20	05524	CW–2B–39
A7R213	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R214	0698–3158	1	RESISTOR 23.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R215	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R216	0698–0083	1	RESISTOR 1.96K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R217	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R218	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R219	0757–0180	1	RESISTOR 31.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7R220	0757–0180	1	RESISTOR 31.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A7TP1	0360–2359	1	TERMINAL–TEST POINT .230IN ABOVE	04055	230.100
A7TP2	0360–2359	1	TERMINAL–TEST POINT .230IN ABOVE	04055	230.100
A7TP3	0360–2359	1	TERMINAL–TEST POINT .230IN ABOVE	04055	230.100
A7TP4	0360–2359	1	TERMINAL–TEST POINT .230IN ABOVE	04055	230.100
A7TP5	0360–2359	1	TERMINAL–TEST POINT .230IN ABOVE	04055	230.100
A7U1	1820–0802	1	IC GATE ECL NOR QUAD 2–INP	02037	MC10102P
A7U2	1820–2691	1	IC FF TTL/F D–TYPE POS–EDGE–TRIG	02910	74F74N
A7U3	1820–2778	1	IC CNTR TTL/ALS DECD SYNCHRO	01698	SN74ALS162BN
A7U4	1858–0055	1	TRANSISTOR ARRAY 14–PIN PLSTC DIP	02037	MPQ2369
A7U5	1810–0302	1	NETWORK–RES 8–SIP 47.0 OHM X 4	02483	750–83–R47
A7U6	1820–2779	1	IC CNTR TTL/ALS BIN SYNCHRO	01698	SN74ALS163BN
A7U7	1820–2635	1	IC GATE TTL/ALS AND QUAD 2–INP	01698	SN74ALS08N
A7U8	1820–0802	1	IC GATE ECL NOR QUAD 2–INP	02037	MC10102P
A7U9	1810–0203	1	NETWORK–RES 8–SIP 470.0 OHM X 7	02483	750–81
A7U10	1820–1383	1	IC CNTR ECL/10K BCD POS–EDGE–TRIG	02037	MC10138P
A7U11	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A7U12	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ

Replaceable Parts List for A7 Reference Assembly, Part Number 08360–60008 (8 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A7U13	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A7U14	1826–0932	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27FZ
A7U15	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A7U16	1826–1431	1	IC V RGLTR–V–REF–FXD 4.9975/5.0025V	10858	LT1021CCN8–5
A7U17	1826–0962	1	IC OP AMP LOW–BIAS–H–IMPD DUAL 8 PIN	03406	LF412CN
A7Y1	0410–2122	1	CRYSTAL–QUARTZ 100.0 MHZ HC–35/U–HLDR	03747	CCAT505311



NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

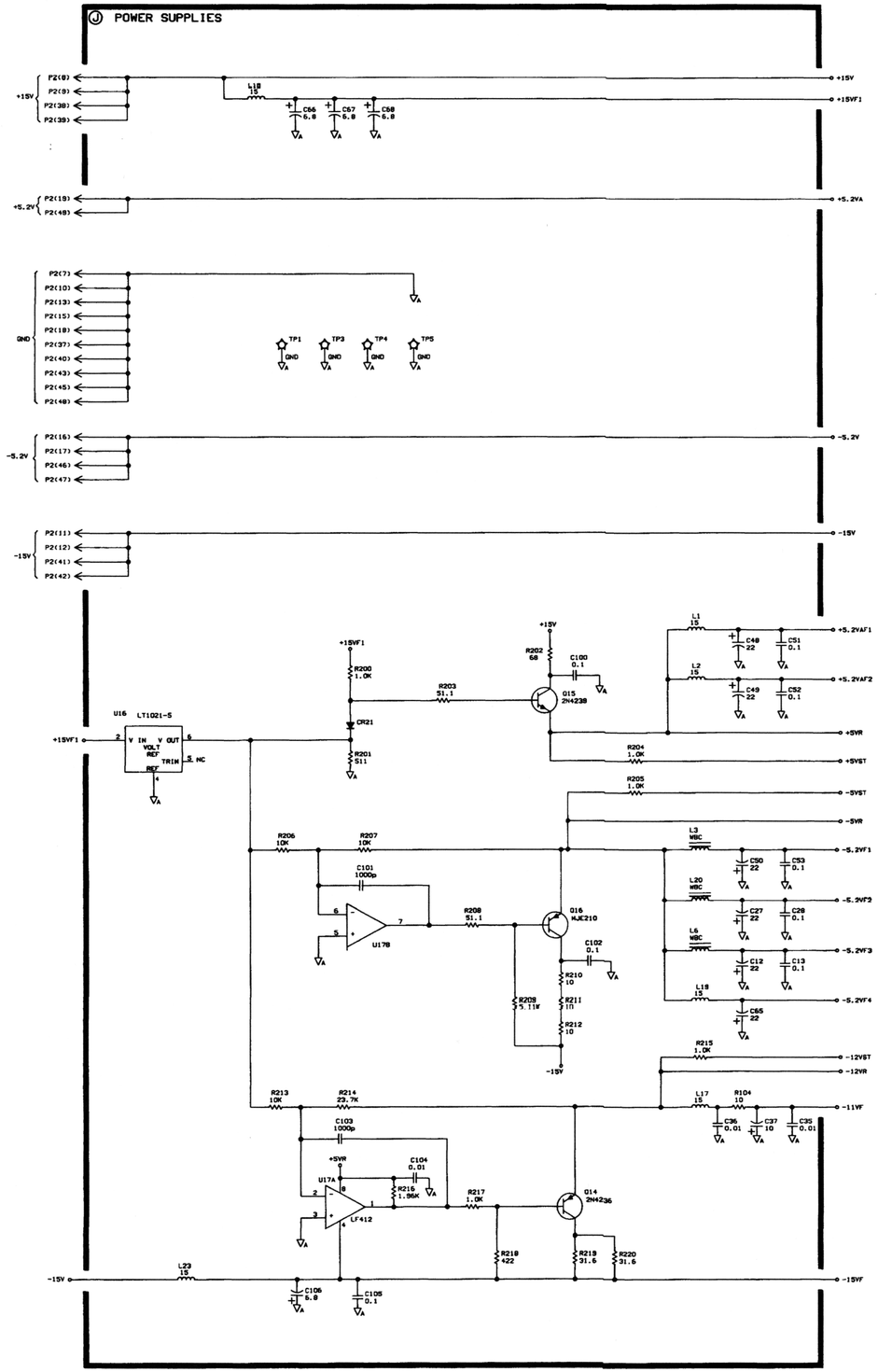


DETAIL A
NOT TO SCALE

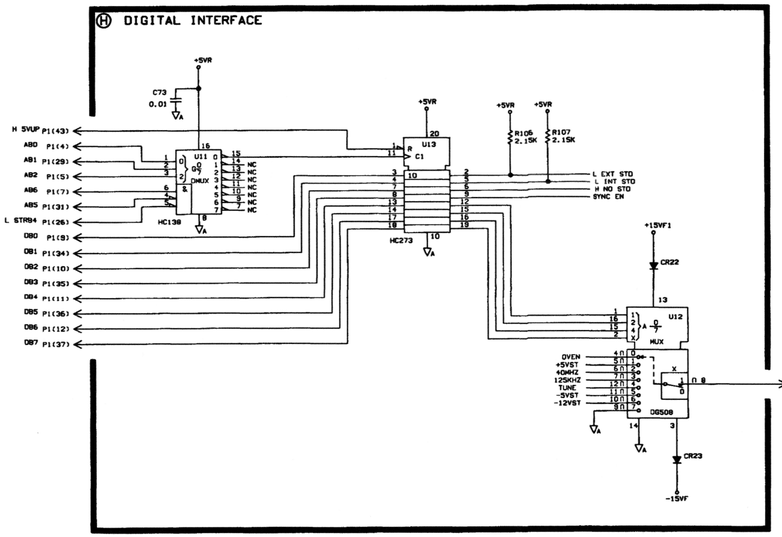
HEWLETT PACKARD

A7 Reference
08360-60008

J POWER SUPPLIES

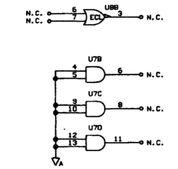


H DIGITAL INTERFACE

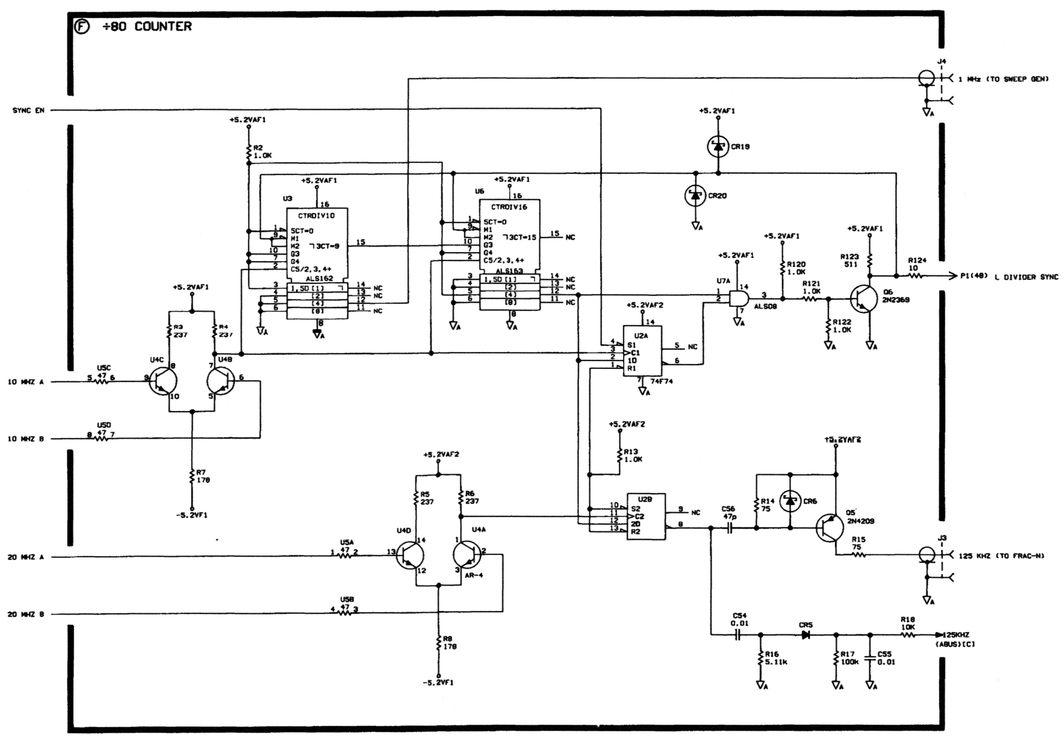


NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

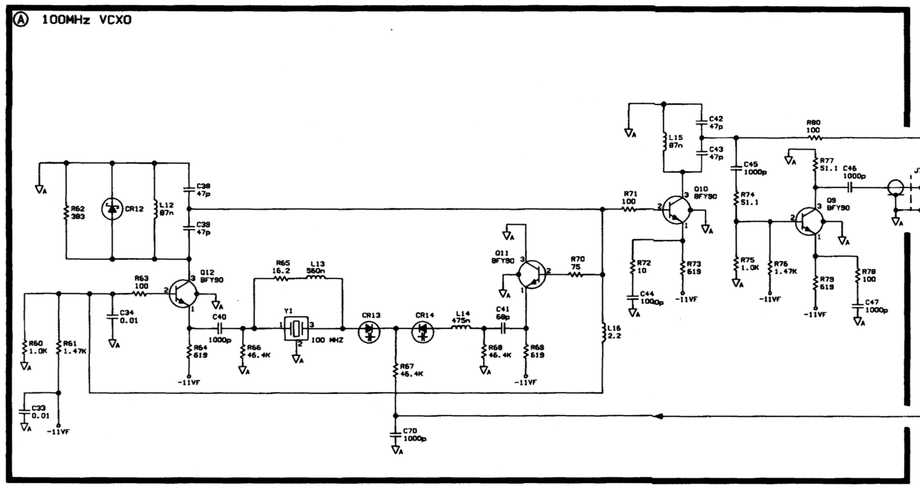
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LAST USED	NOT USED
C112	C75-99,C107-110
CR25	CR11,CR17-18
J7	
L23	L22
P2	
G16	
R220	R11,R102,R108-119 R127-129,R132-199
TP5	
U17	
Y1	

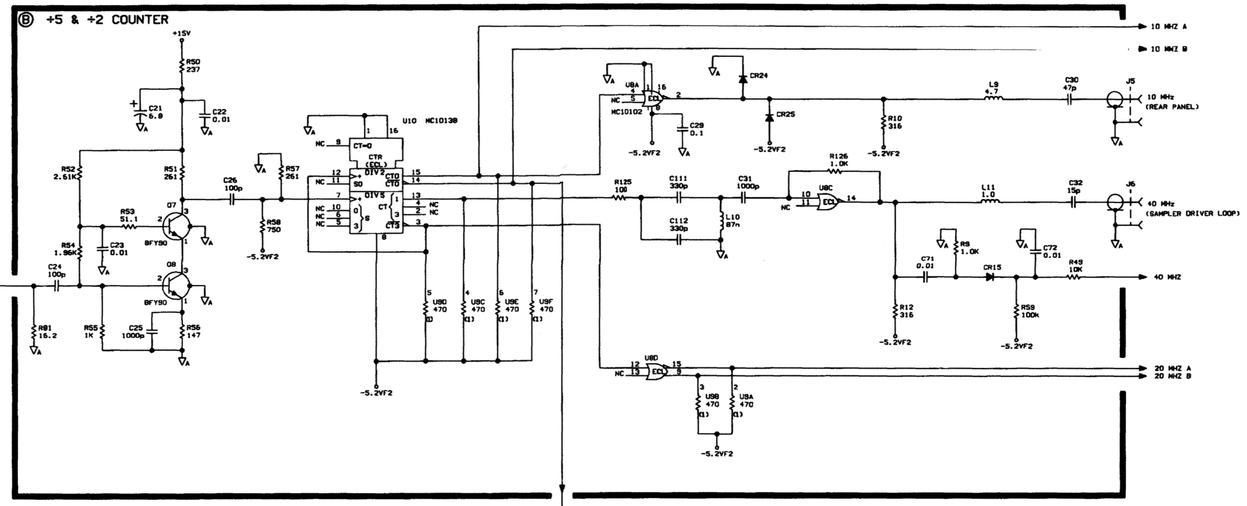


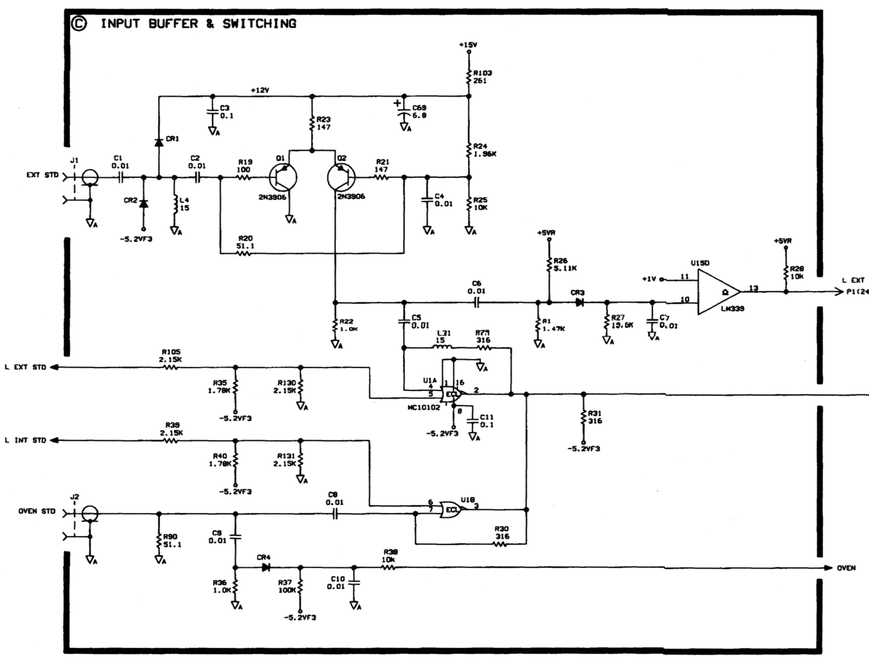
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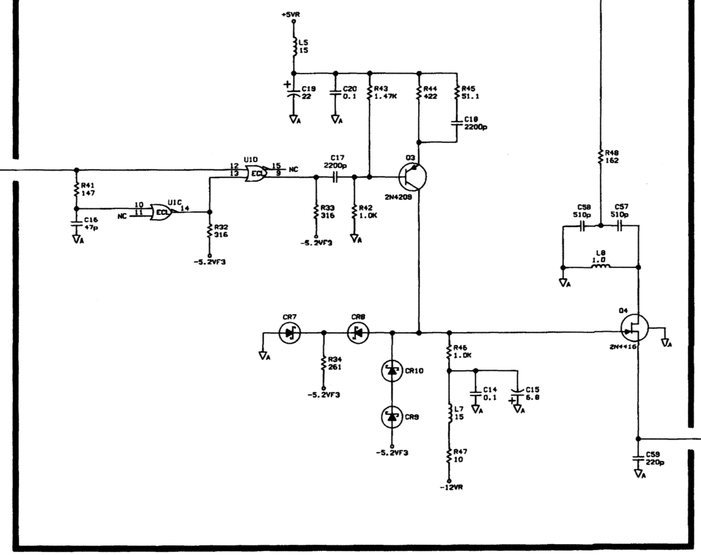


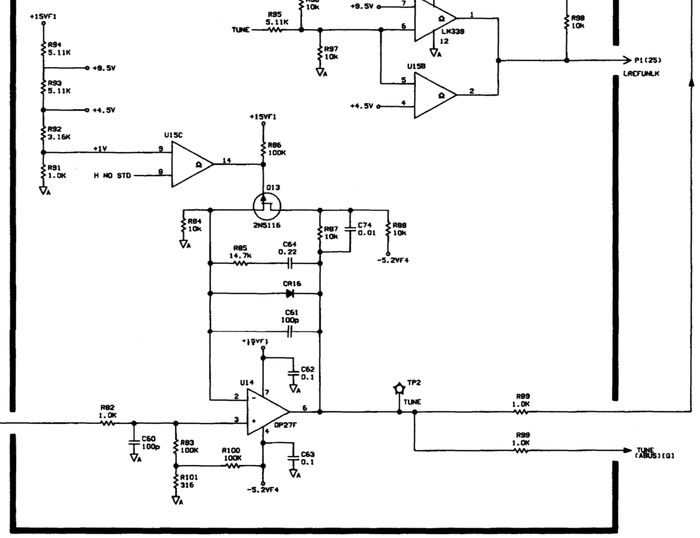
A7 Reference
08360-60008
(SHEET 1 of 2)











A7 Reference
08360-60008
(SHEET 2 of 2)

Schematic Package for 08360-60166 A8 Modulation Generator

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Replaceable Parts List for A8 Modulation Generator Assembly, Part Number 08360–60166 (1 of 10)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A8	08360–60166	1	BD AY–MOD GEN	28480	08360–60166
A8C1	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1
A8C2	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A8C3	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A8C4	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A8C5	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A8C6	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A8C7	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A8C8	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C9	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C10	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C11	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C12	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C13	0180–3845	1	CAP–FXD 4.7uF ±10% 35 V TA	04200	299D475X9035CB1
A8C14	0180–3845	1	CAP–FXD 4.7uF ±10% 35 V TA	04200	299D475X9035CB1
A8C15	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C16	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C17	0180–3770	1	CAP–FXD 2.2uF ±10% 35 V TA	04200	299D225X9035BB1
A8C18	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C19	0160–4814	1	CAP–FXD 150pF ±5% 100 V CER C0G	02010	SA101A151JAAH
A8C20	0160–4803	1	CAP–FXD 68pF ±5% 100 V CER C0G	02010	SA102A680JAAH
A8C21	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C23	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C24	0160–4814	1	CAP–FXD 150pF ±5% 100 V CER C0G	02010	SA101A151JAAH
A8C25	0160–4803	1	CAP–FXD 68pF ±5% 100 V CER C0G	02010	SA102A680JAAH
A8C26	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C27	0180–3849	1	CAP–FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A8C28	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C29	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C30	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C31	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C32	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C33	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C34	0180–3941	1	CAP–FXD 100uF ±10% 10 V TA	12340	T396J107K010AS
A8C35	0180–3941	1	CAP–FXD 100uF ±10% 10 V TA	12340	T396J107K010AS
A8C36	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C37	0180–3813	1	CAP–FXD 10uF ±10% 10 V TA	04200	299D106X9010BB1
A8C38	0180–3941	1	CAP–FXD 100uF ±10% 10 V TA	12340	T396J107K010AS
A8C39	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A8C40	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A8C41	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A8C42	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A8C43	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A8C44	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A8C45	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A8C46	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1

Replaceable Parts List for A8 Modulation Generator Assembly, Part Number 08360–60166 (2 of 10)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A8C47	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C48	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C49	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C50	0180–3849	1	CAP–FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A8C51	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C52	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C53	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C54	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C55	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C56	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C57	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C58	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C59	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C60	0180–3849	1	CAP–FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A8C61	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C62	0180–3849	1	CAP–FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A8C63	0180–3849	1	CAP–FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A8C64	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C65	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C66	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C67	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C68	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C69	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C70	0160–4813	1	CAP–FXD 180pF ±5% 100 V CER C0G	02010	SA101A181JAAH
A8C71	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C72	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C73	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C74	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C75	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C76	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C77	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C78	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C79	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C80	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C81	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A8C82	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A8C83	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A8C84	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A8C85	0160–4787	1	CAP–FXD 22pF ±5% 100 V CER C0G	02010	SA102A220JAAH
A8C86	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C87	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C88	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C89	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C90	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C91	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH

Replaceable Parts List for A8 Modulation Generator Assembly, Part Number 08360–60166 (3 of 10)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A8C92	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A8C93	0180–3849	1	CAP–FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A8C94	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C95	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C96	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C97	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C98	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C99	0180–3849	1	CAP–FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A8C100	0180–3849	1	CAP–FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A8C101	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C102	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C103	0160–4813	1	CAP–FXD 180pF ±5% 100 V CER C0G	02010	SA101A181JAAH
A8C104	0160–4823	1	CAP–FXD 820pF ±5% 100 V CER C0G	02010	SA101A821JAAH
A8C105	0160–4846	1	CAP–FXD 1500pF ±5% 100 V CER C0G	02010	SA201A152JAAH
A8C106	0160–5099	1	CAP–FXD 3300pF ±5% 100 V CER C0G	02010	SA301A332JAAH
A8C107	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C108	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C109	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C110	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C111	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C112	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A8C113	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C114	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C115	0160–4802	1	CAP–FXD 82pF ±5% 100 V CER C0G	02010	SA102A820JAAH
A8C116	0160–4814	1	CAP–FXD 150pF ±5% 100 V CER C0G	02010	SA101A151JAAH
A8C117	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C120	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C122	0160–4823	1	CAP–FXD 820pF ±5% 100 V CER C0G	02010	SA101A821JAAH
A8C123	0160–4846	1	CAP–FXD 1500pF ±5% 100 V CER C0G	02010	SA201A152JAAH
A8C124	0160–5099	1	CAP–FXD 3300pF ±5% 100 V CER C0G	02010	SA301A332JAAH
A8C125	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C126	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C304	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C305	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A8C306	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A8C307	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A8C400	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A8C401	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A8CR1	0122–0245	1	DIODE–VVC 1N5139 6.8PF 10% C	02037	1N5139
A8CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR4	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	

Replaceable Parts List for A8 Modulation Generator Assembly, Part Number 08360–60166 (4 of 10)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A8CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR13	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR14	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR15	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR16	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR17	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR18	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR19	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR20	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A8CR21	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR22	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR25	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR26	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR27	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR28	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR29	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR30	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR31	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR32	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR37	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR38	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR39	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR40	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR42	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR43	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR44	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR45	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR46	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR47	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8CR48	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A8E1	1251–2194	1	CONNECTOR–SGL CONT SKT .021–IN–BSC–SZ	01380	3–331272–0
A8E2	1251–2194	1	CONNECTOR–SGL CONT SKT .021–IN–BSC–SZ	01380	3–331272–0
A8E3	1251–2194	1	CONNECTOR–SGL CONT SKT .021–IN–BSC–SZ	01380	3–331272–0
A8E4	1251–2194	1	CONNECTOR–SGL CONT SKT .021–IN–BSC–SZ	01380	3–331272–0
A8E5	1251–2194	1	CONNECTOR–SGL CONT SKT .021–IN–BSC–SZ	01380	3–331272–0
A8E6	1251–2194	1	CONNECTOR–SGL CONT SKT .021–IN–BSC–SZ	01380	3–331272–0
A8E7	1251–2194	1	CONNECTOR–SGL CONT SKT .021–IN–BSC–SZ	01380	3–331272–0
A8E8	1251–2194	1	CONNECTOR–SGL CONT SKT .021–IN–BSC–SZ	01380	3–331272–0
A8J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A8J2	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A8J3	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8

Replaceable Parts List for A8 Modulation Generator Assembly, Part Number 08360–60166 (5 of 10)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A8J4	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A8J5	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A8J6	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A8J7	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A8J8	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A8J9	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A8J10	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A8J11	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A8K1	0490–1409	1	RELAY 2C 5VDC–COIL 2A 250VAC	01850	DS2E–S–DC5V–H121
A8K2	0490–1409	1	RELAY 2C 5VDC–COIL 2A 250VAC	01850	DS2E–S–DC5V–H121
A8L1	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A8L2	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A8L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A8L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A8L5	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A8L6	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A8L7	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A8L8	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A8L9	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A8L10	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A8L11	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A8L12	9140–1147	1	INDUCTOR RF–CH–MLD 6.8UH ±5%	03273	17S–681J
A8L14	9100–3551	1	INDUCTOR RF–CH–MLD 1UH ±5%	03273	15M101J
A8L16	9140–0399	1	INDUCTOR RF–CH–MLD 2.2UH ±5%	03273	15M221J
A8L17	9100–2486	1	INDUCTOR RF–CH–MLD 330NH ±5%	03273	15M330J
A8L18	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A8L19	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A8L20	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A8L21	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A8L22	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A8L23	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A8L24	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A8L25	9100–3552	1	INDUCTOR RF–CH–MLD 1.5UH ±5%	03273	15M151J
A8L26	9140–0452	1	INDUCTOR RF–CH–MLD 2.7UH ±5%	03273	15M–271J
A8L27	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A8L28	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A8L33	9100–0539	1	INDUCTOR RF–CH–MLD 10UH ±5%	03273	15M102J
A8L34	9100–3552	1	INDUCTOR RF–CH–MLD 1.5UH ±5%	03273	15M151J
A8L35	9140–0452	1	INDUCTOR RF–CH–MLD 2.7UH ±5%	03273	15M–271J
A8L36	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A8L37	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A8L300	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A8MP2	0403–0621	1	EXTR–PC BD BLK NYL .062–IN–BD–THKNS	02123	91–2–BLACK–5
A8MP3	0403–0625	1	EXTR–PC BD GRA NYL .062–IN–BD–THKNS	02123	91–2–GRAY–8
A8P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1

Replaceable Parts List for A8 Modulation Generator Assembly, Part Number 08360–60166 (6 of 10)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A8P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A8Q1	1855–0235	1	TRANSISTOR J–FET N–CHAN D–MODE TO–52 SI	02883	
A8Q2	1854–1063	1	TRANSISTOR NPN SI TO–72 PD=200MW FT=1GHZ	02037	BFY90
A8Q3	1854–1063	1	TRANSISTOR NPN SI TO–72 PD=200MW FT=1GHZ	02037	BFY90
A8Q4	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A8Q5	1854–0345	1	TRANSISTOR NPN 2N5179 SI TO–72 PD=200MW	02037	2N5179
A8Q6	1854–0809	1	TRANSISTOR NPN 2N2369A SI TO–18 PD=360MW	02037	2N2369A
A8Q7	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A8Q8	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A8Q9	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A8Q10	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A8Q100	1855–0235	1	TRANSISTOR J–FET N–CHAN D–MODE TO–52 SI	02883	
A8Q300	1854–0809	1	TRANSISTOR NPN 2N2369A SI TO–18 PD=360MW	02037	2N2369A
A8Q301	1854–0809	1	TRANSISTOR NPN 2N2369A SI TO–18 PD=360MW	02037	2N2369A
A8R1	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R2	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R3	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R4	0757–0317	1	RESISTOR 1.33K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R5	0698–0082	1	RESISTOR 464 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R6	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R7	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R8	0757–0288	1	RESISTOR 9.09K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R9	0698–3150	1	RESISTOR 2.37K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R10	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R11	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R12	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R13	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R14	0698–3153	1	RESISTOR 3.83K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R15	0698–3153	1	RESISTOR 3.83K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R16	0698–3153	1	RESISTOR 3.83K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R17	0698–3453	1	RESISTOR 196K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R18	0698–3150	1	RESISTOR 2.37K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R19	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R20	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R21	0757–0403	1	RESISTOR 121 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R22	0698–3455	1	RESISTOR 261K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R23	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R24	0698–3454	1	RESISTOR 215K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R26	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R27	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R28	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R29	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R30	0698–3311	1	RESISTOR 51 ±5% 2W MO TC=0±200	02499	GS–3
A8R31	0698–3150	1	RESISTOR 2.37K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R32	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A8 Modulation Generator Assembly, Part Number 08360–60166 (7 of 10)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A8R33	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R34	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R35	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R36	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R37	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R38	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R39	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R40	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R41	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R44	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R45	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R46	0698–3153	1	RESISTOR 3.83K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R47	0757–0180	1	RESISTOR 31.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R48	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R49	0698–6323	1	RESISTOR 100 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R50	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R51	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R52	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R53	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R54	0698–6774	1	RESISTOR 150 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R55	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R56	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R57	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R58	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R59	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R60	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R61	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R62	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R63	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R64	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R65	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R66	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R67	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R68	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R69	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R70	0698–3620	1	RESISTOR 100 ±5% 2W MO TC=0±200	02499	GS–3
A8R71	0698–3620	1	RESISTOR 100 ±5% 2W MO TC=0±200	02499	GS–3
A8R72	0698–3150	1	RESISTOR 2.37K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R73	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R74	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R75	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R76	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R77	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R78	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R79	8159–0005	1	RESISTOR 0 CWM	01339	L–2007–1

Replaceable Parts List for A8 Modulation Generator Assembly, Part Number 08360–60166 (8 of 10)

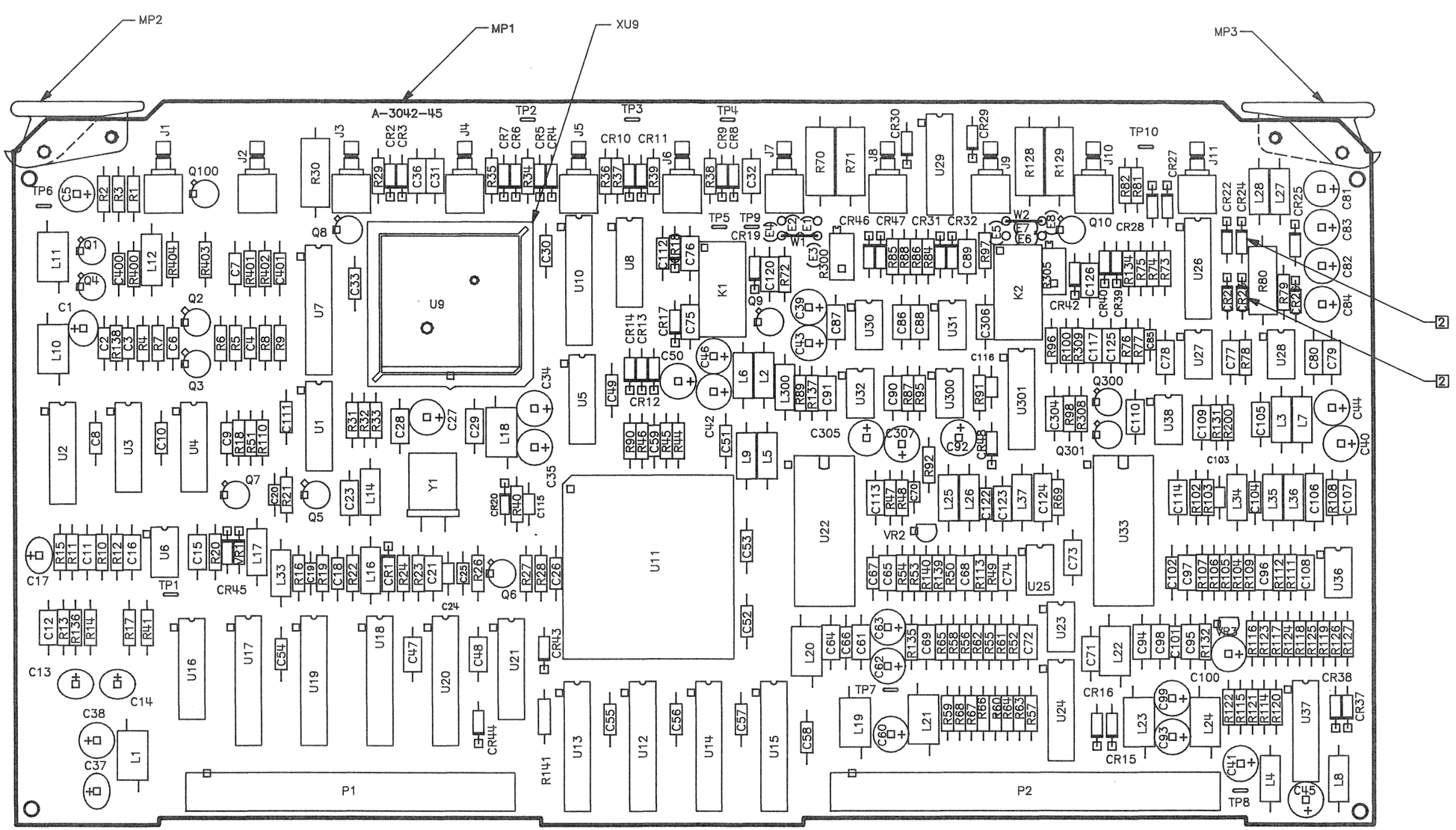
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A8R80	0698–3601	1	RESISTOR 10 ±5% 2W MO TC=0±200	02499	GS–3
A8R81	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R82	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R84	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R85	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R86	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R87	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R88	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R89	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R90	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R91	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R92	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R95	0698–6782	1	RESISTOR 250 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R96	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R97	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R98	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R100	0757–0418	1	RESISTOR 619 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R102	0757–0180	1	RESISTOR 31.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R103	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R104	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R105	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R106	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R107	0698–6774	1	RESISTOR 150 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R108	0698–6323	1	RESISTOR 100 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R109	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R110	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R111	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R112	0698–0082	1	RESISTOR 464 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R113	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R114	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R115	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R116	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R117	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R118	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R119	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R120	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R121	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R122	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R123	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R124	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R125	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R126	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R127	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R128	0811–3781	1	RESISTOR 68.1 ±1% 3W PWN TC=0±30	05524	NS–2B
A8R129	0757–1090	1	RESISTOR 261 ±1% .5W TF TC=0±100	05524	CMF–65–2

Replaceable Parts List for A8 Modulation Generator Assembly, Part Number 08360–60166 (9 of 10)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A8R131	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R132	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R134	0698–3150	1	RESISTOR 2.37K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R135	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R136	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R137	0698–6782	1	RESISTOR 250 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R138	0698–3150	1	RESISTOR 2.37K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R139	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R140	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A8R141	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R200	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R300	2100–3757	1	RESISTOR–TRMR 100 10% TKF SIDE–ADJ	04568	67XR
A8R305	2100–3757	1	RESISTOR–TRMR 100 10% TKF SIDE–ADJ	04568	67XR
A8R308	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R309	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R400	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R401	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R402	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R403	0757–0397	1	RESISTOR 68.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8R404	0757–0397	1	RESISTOR 68.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A8TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A8TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A8TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A8TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A8TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A8TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A8TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A8TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A8TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A8TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A8U1	1820–4164	1	IC SCHMITT–TRIG TTL/F NAND QUAD 2–INP	02910	74F132N SELECTED
A8U2	1820–3348	1	IC CNTR TTL/F BIN SYNCHRO POS–EDGE–TRIG	02910	74F163AN
A8U3	1820–2691	1	IC FF TTL/F D–TYPE POS–EDGE–TRIG	02910	74F74N
A8U4	1820–2691	1	IC FF TTL/F D–TYPE POS–EDGE–TRIG	02910	74F74N
A8U5	1820–2684	1	IC GATE TTL/F NAND QUAD 2–INP	02910	74F00N
A8U6	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27GZ
A8U7	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A8U8	1820–2692	1	IC GATE TTL/F EXCL–OR QUAD 2–INP	02910	74F86N
A8U9	1820–6539	1	IC–PLD SRAM–FPGA UNPRGMD CMOS 3030	12404	XC3030–70PC84C UNPRGMD
A8U10	1820–4496	1	IC DRVR TTL/AS AND HEX 2–INP	01698	SN74AS1808N
A8U11	1FI7–0002	1			
A8U12	1820–4235	1	IC FF TTL/F D–TYPE POS–EDGE–TRIG COM	02910	74F273N
A8U13	1820–4235	1	IC FF TTL/F D–TYPE POS–EDGE–TRIG COM	02910	74F273N
A8U14	1820–4235	1	IC FF TTL/F D–TYPE POS–EDGE–TRIG COM	02910	74F273N
A8U15	1820–4235	1	IC FF TTL/F D–TYPE POS–EDGE–TRIG COM	02910	74F273N
A8U16	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N

Replaceable Parts List for A8 Modulation Generator Assembly, Part Number 08360–60166 (10 of 10)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A8U17	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A8U18	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A8U19	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A8U20	1820–3145	1	IC DRVR TTL/ALS BUS OCTL	01698	SN74ALS244BN
A8U21	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A8U22	1826–2058	1	D/A 12–BIT 24–PLASTIC BPLR	04507	TDC1012N7C2
A8U23	1826–1940	1	IC OP AMP HS 8 PIN DIP–P	03285	AD847JN
A8U24	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A8U25	1826–1940	1	IC OP AMP HS 8 PIN DIP–P	03285	AD847JN
A8U26	1826–1824	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG411DJ
A8U27	1826–1940	1	IC OP AMP HS 8 PIN DIP–P	03285	AD847JN
A8U28	1826–1608	1	IC MISC HS 8 PIN DIP–P	03406	LM6321N
A8U29	1826–0606	1	ANALOG SWITCH 4 SPST 16 –CERDIP	02883	DG201ABK
A8U30	1826–1940	1	IC OP AMP HS 8 PIN DIP–P	03285	AD847JN
A8U31	1826–1940	1	IC OP AMP HS 8 PIN DIP–P	03285	AD847JN
A8U32	1826–1940	1	IC OP AMP HS 8 PIN DIP–P	03285	AD847JN
A8U33	1826–2058	1	D/A 12–BIT 24–PLASTIC BPLR	04507	TDC1012N7C2
A8U36	1826–1940	1	IC OP AMP HS 8 PIN DIP–P	03285	AD847JN
A8U37	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A8U38	1826–1940	1	IC OP AMP HS 8 PIN DIP–P	03285	AD847JN
A8U300	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A8U301	1820–0919	1	IC COMPTR ECL A/D DUAL	02037	MC1650L
A8VR1	1902–0949	1	DIODE–ZNR 4.3V 5% DO–35 PD=.4W TC=+.017C>02037		
A8VR2	1826–0774	1	IC V RGLTR–V–REF–FXD 1.223/1.247V TO–92	03406	LM385BZ–1.2
A8VR3	1826–0774	1	IC V RGLTR–V–REF–FXD 1.223/1.247V TO–92	03406	LM385BZ–1.2
A8W1	1258–0124	1	SHUNT–PROGRAMMABLE 1 DBL PIN SET; .100	05518	8136–475G1
A8W2	1258–0124	1	SHUNT–PROGRAMMABLE 1 DBL PIN SET; .100	05518	8136–475G1
A8XU9	1200–1343	1	SOCKET–IC–CHP–CARR 84–CONT SQUARE	01380	821573–1
A8Y1	0410–2221	1	CRYSTAL–QUARTZ PRECISION CRYSTAL	01409	



NOTES: UNLESS OTHERWISE SPECIFIED

1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
   SOLDERING PER A-5951-1585-1 (741.070F)
   REWORK PER A-5951-1586-1 (741.070G)

2. CR23, CR24 NOT LOADED

HEWLETT PACKARD

A8 Modulation Generator

08360-60166

A8 Modulation Generator

08360-60166

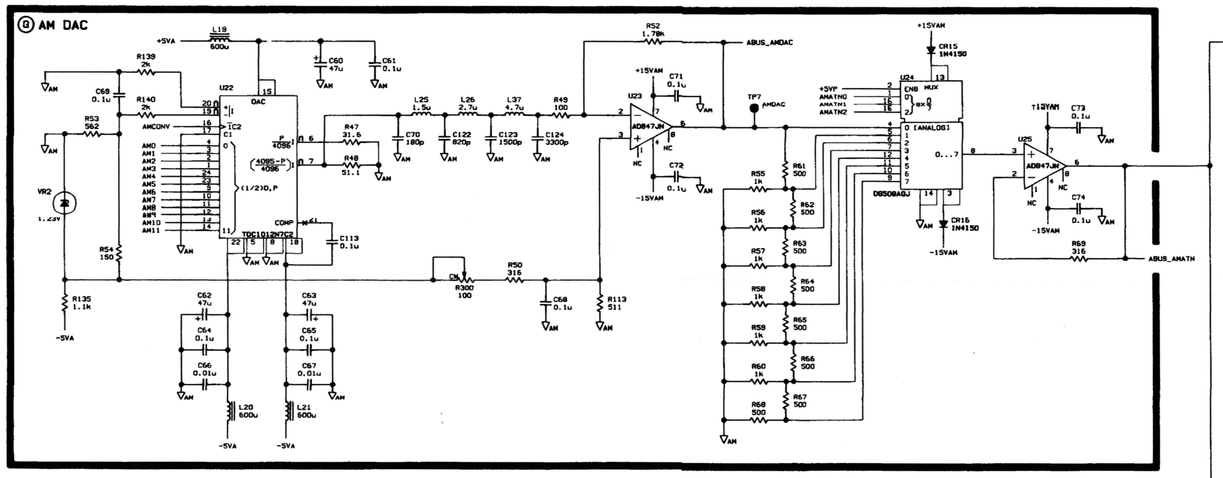
(SHEET 1 of 2)

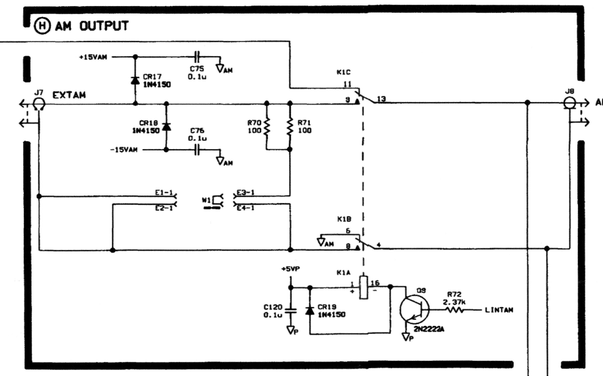
NOTES: UNLESS OTHERWISE SPECIFIED.

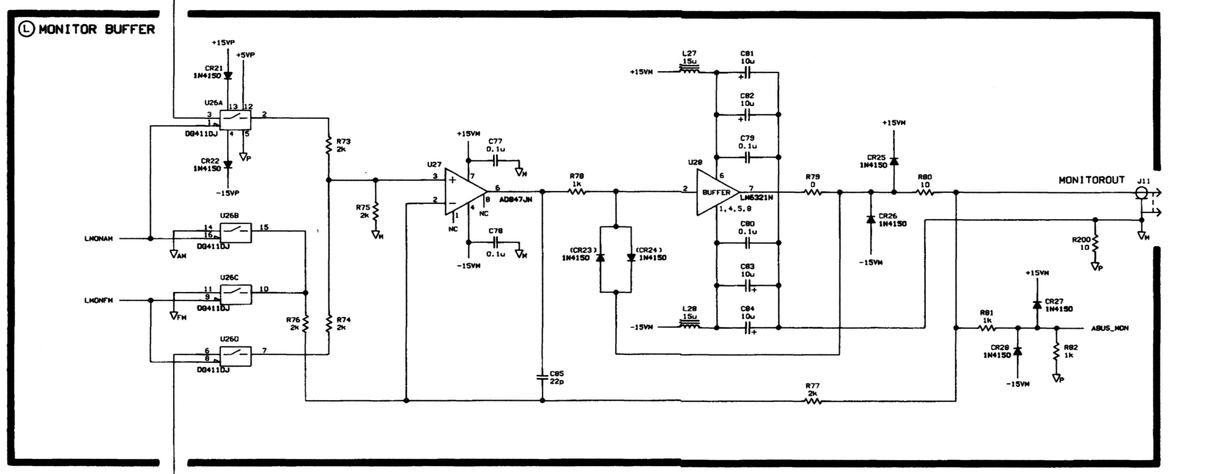
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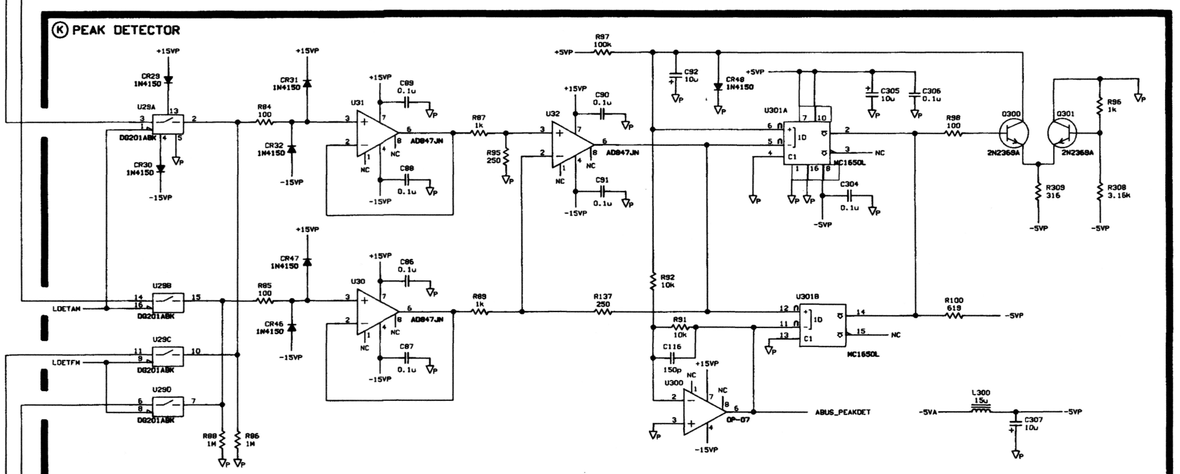
REFERENCE DESIGNATORS	
LAST USED	NOT USED
C401	C22,118,119,121 C127-303,308-388 CR33-36,41
CR48	
E8	
H2	
L300	L13,15,29-32,38-295
P2	
Q301	Q11-88,101-295
R404	R25,42,43,83,93 R84,99,101,130,133 R142-198,201-289 R301-304,306,307 R310-359
TP10	
U301	U34,35,39-288
VR3	
W2	
Y1	

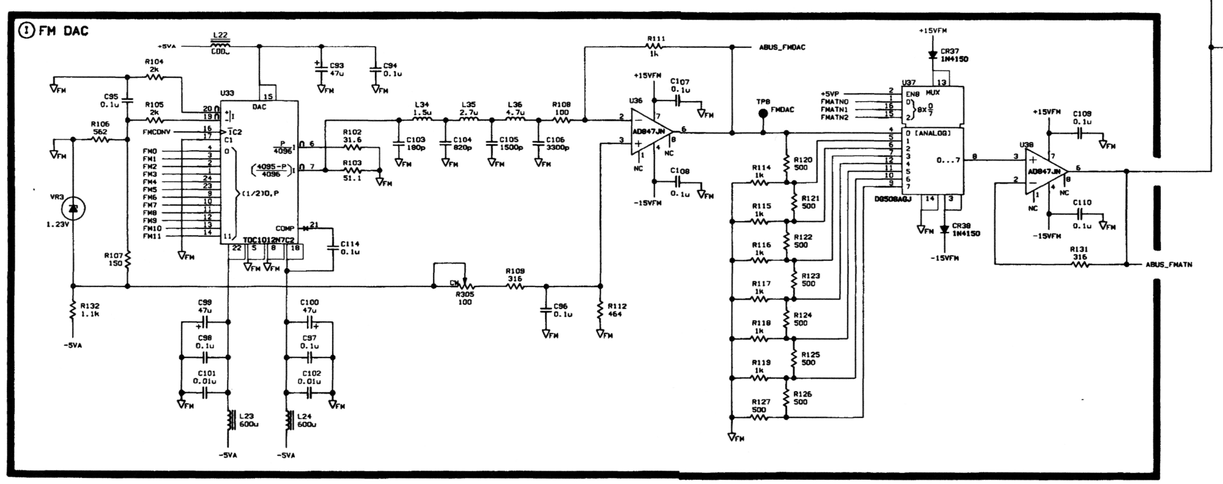
2. CR23, CR24 NOT LOADED

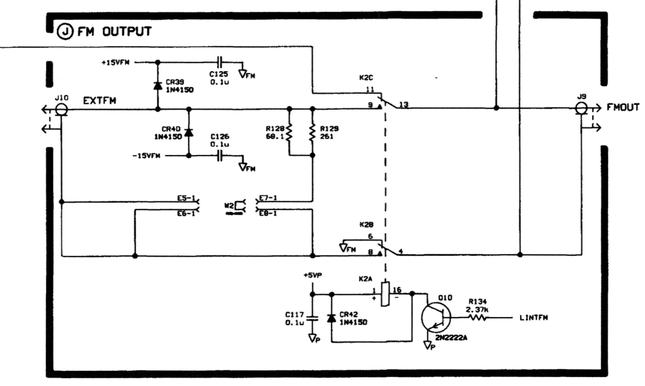












A8 Modulation Generator

08360-60166

(SHEET 2 of 2)

Schematic Package for 08360-60005 A9 Pulse

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Information in this document is subject to change without notice. The configuration of some assemblies may differ from that indicated in this document.



Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60005 (1 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9	08360–60005	1	BD AY–PULSE	28480	08360–60152
A9C1	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C2	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C3	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C4	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C5	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A9C6	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C7	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C8	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C9	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A9C10	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A9C11	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C12	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C13	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A9C14	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C15	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A9C16	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A9C17	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A9C18	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X9015B2–DYS
A9C19	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X9015B2–DYS
A9C20	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X9015B2–DYS
A9C21	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A9C22	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A9C23	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A9C24	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C25	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C26	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C27	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C28	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C29	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C30	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C31	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C32	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C33	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C34	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C35	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C36	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C37	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C38	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C39	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C40	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C41	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A9C42	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	02010	SA102A100JAAH
A9C43	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C44	0160–5871	1	CAP–FXD 510pF ±1% 100 V CER C0G	09939	RPA20C0G511F100V
A9C45	0160–5871	1	CAP–FXD 510pF ±1% 100 V CER C0G	09939	RPA20C0G511F100V

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60005 (2 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9C46	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C47	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C48	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C49	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C50	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A9C51	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C52	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C53	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C54	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C55	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C56	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C57	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C58	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A9C59	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C60	0180–3941	1	CAP–FXD 100uF ±10% 10 V TA	12340	T396J107K010AS
A9C61	0180–3941	1	CAP–FXD 100uF ±10% 10 V TA	12340	T396J107K010AS
A9C62	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C63	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR13	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR15	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR16	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR19	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A9CR20	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A9CR22	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR23	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR26	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR27	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR28	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR29	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR30	1901–0731	1	DIODE–PWR RECT 400V 1A	02037	1N4004
A9J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A9J2	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A9J3	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A9L1	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60005 (3 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9L2	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A9L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L5	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L6	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L7	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L8	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L9	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L10	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L11	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L12	9100–3560	1	INDUCTOR RF–CH–MLD 5.6UH ±5%	03273	15M561J
A9MP2	0403–0621	1	EXTR–PC BD BLK NYL .062–IN–BD–THKNS	02123	91–2–BLACK–5
A9MP3	0403–0626	1	EXTR–PC BD WHT NYL .062–IN–BD–THKNS	02123	91–2–WHITE–0
A9MP4	0340–1135	2	SPACER–COMPONENT FOR MOST RADIAL LEAD	03724	300–100
A9MP5	1200–0173	4	INSULATOR–XSTR DAP–GL	02210	A–10001 DAP
A9P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A9P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A9Q1	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A9Q2	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q3	1854–1028	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904
A9Q4	1853–0269	1	TRANSISTOR–DUAL PNP 2N3809 TO–78	02037	2N3809
A9Q5	1853–0269	1	TRANSISTOR–DUAL PNP 2N3809 TO–78	02037	2N3809
A9Q6	1853–0269	1	TRANSISTOR–DUAL PNP 2N3809 TO–78	02037	2N3809
A9Q7	1854–0457	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD485
A9Q8	1853–0075	1	TRANSISTOR–DUAL PNP PD=400MW	02037	
A9Q9	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q10	1854–0457	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD485
A9Q11	1855–0232	1	TRANSISTOR–JFET DUAL 2N5565 N–CHAN	02883	2N5565
A9Q12	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q13	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q14	1854–1028	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904
A9Q15	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q16	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q17	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q18	1854–0809	1	TRANSISTOR NPN 2N2369A SI TO–18 PD=360MW	02037	2N2369A
A9Q19	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q20	1855–0251				
A9Q21	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q22	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q23	1855–0251		TRANSISTOR MOSFET N–CHAN EMODE TO–39 SI	02037	2N6659
A9Q24	1854–0809	1	TRANSISTOR NPN 2N2369A SI TO–18 PD=360MW	02037	2N2369A
A9Q25	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q26	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q27	1854–1028	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904
A9Q28	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60005 (4 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9Q29	1854–1028	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904
A9Q30	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q31	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q32	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9R1	0698–3154	1	RESISTOR 422K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R2	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R3	0698–3615	1	RESISTOR 47 ±5% 2W MO TC=0±200	02499	FP–42
A9R4	0698–3615	1	RESISTOR 47 ±5% 2W MO TC=0±200	02499	FP–42
A9R5	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R6	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R7	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R8	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R9	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R10	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R11	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R12	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R13	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R14	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R15	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R16	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R17	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R18	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R19	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R20	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R21	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R22	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R23	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R24	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R25	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R26	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R27	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R28	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R29	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R30	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R31	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R32	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R33	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R34	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R35	0698–3445	1	RESISTOR 348 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R36	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R37	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R38	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R39	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R40	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R41	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60005 (5 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9R42	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R43	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R44	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R45	0757–0447	1	RESISTOR 16.2K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R46	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R47	0757–0447	1	RESISTOR 16.2K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R48	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R49	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R50	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R51	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R52	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R53	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R54	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R55	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R56	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R57	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R58	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A959	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R60	0757–0439	1	RESISTOR 6.81K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R61	0698–3161	1	RESISTOR 38.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R62	0698–3439	1	RESISTOR 178 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R63	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R64	0757–0461	1	RESISTOR 68.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R65	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R66	0757–0288	1	RESISTOR 9.09K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R67	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R68	0757–0288	1	RESISTOR 9.09K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R69	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R70	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R71	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R72	0698–3441	1	RESISTOR 215 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R73	0698–3445	1	RESISTOR 348 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R74	0698–0085	1	RESISTOR 2.61K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R75	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R76	2100–3351	1	RESISTOR–TRMR 500 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–501
A9R77	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R78	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R79	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R80	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R81	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R82	0698–3430	1	RESISTOR 21.5 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R83	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R84	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R85	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R86	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60005 (6 of 8)

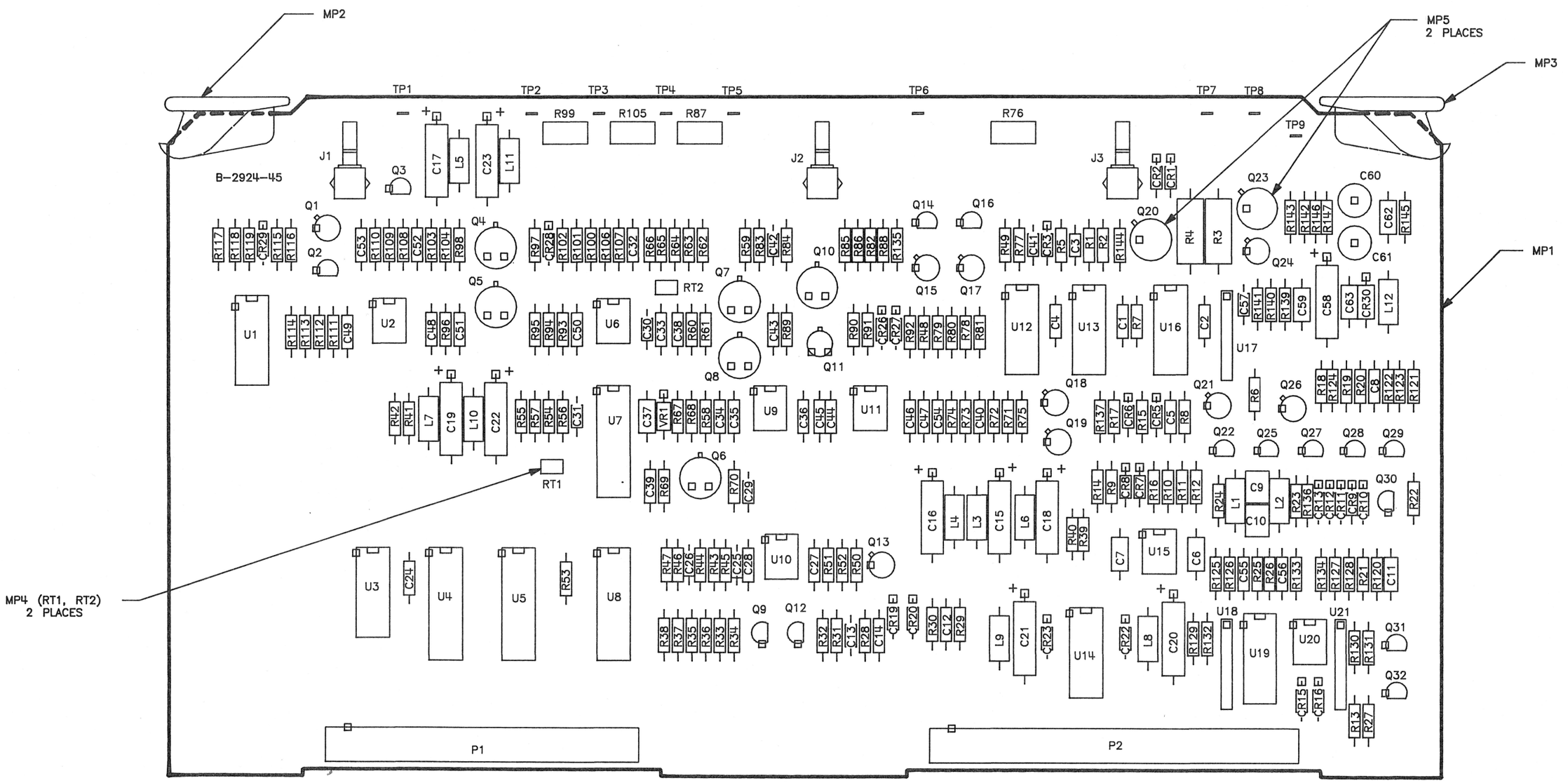
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9R87	2100–3354	1	RESISTOR–TRMR 50K 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–503
A9R88	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R89	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R90	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R91	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R92	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R93	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R94	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R95	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R96	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R97	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R98	0757–0317	1	RESISTOR 1.33K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R99	2100–0552	1	RESISTOR–TRMR 50 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–500
A9R100	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R101	0757–0317	1	RESISTOR 1.33K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R102	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R103	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R104	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R105	2100–3351	1	RESISTOR–TRMR 500 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–501
A9R106	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R107	0698–3441	1	RESISTOR 215 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R108	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R109	0757–0200	1	RESISTOR 5.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R110	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R111	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R112	0698–3430	1	RESISTOR 21.5 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R113	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R114	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R115	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R116	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R117	0698–3430	1	RESISTOR 21.5 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R118	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R119	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R120	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R121	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R122	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R123	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R124	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R125	0757–0461	1	RESISTOR 68.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R126	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R127	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R128	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R129	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R130	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R131	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60005 (7 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9R132	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R133	0757–0461	1	RESISTOR 68.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R134	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R135	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R136	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R137	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R138	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R139	0698–0083	1	RESISTOR 1.96K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R140	8159–0083	1	RESISTOR 1.96K ± 1% .125W TF TC=0±100	05524	CMF–55–1
A9R141	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R142	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R143	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R144	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R145	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R146	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R147	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R148	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9RT1	0837–0035	1	THERMISTOR DISC 5K–OHM TC=–4.4–DEG	05098	35D24
A9RT2	0837–0035	1	THERMISTOR DISC 5K–OHM TC=–4.4–DEG	05098	35D24
A9TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A9U1	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A9U2	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27GZ
A9U3	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A9U4	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A9U5	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A9U6	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U7	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A9U8	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A9U9	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U10	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U11	1826–1844	1	IC OP AMP HS 8 PIN DIP–C	02180	OP–42FZ
A9U12	1820–2739	1	IC GATE TTL/ALS NOR QUAD 2–INP	01698	SN74ALS02N
A9U13	1820–2775	1	IC GATE TTL/ALS NAND TPL 3–INP	01698	SN74ALS10AN
A9U14	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A9U15	1826–1844	1	IC OP AMP HS 8 PIN DIP–C	02180	OP–42FZ
A9U16	1820–2775	1	IC GATE TTL/ALS NAND TPL 3–INP	01698	SN74ALS10AN
A9U17	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60005 (8 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9U18	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A9U19	1858–0116	1	TRANSISTOR ARRAY 14–PIN PLSTC TO–116	02883	VQ1001J
A9U20	1826–0412	1	IC COMPARATOR PRCN DUAL 8 PIN DIP–P	03406	LM393N
A9U21	1810–0347	1	NETWORK–RES 8–SIP 2.2K OHM X 4	02483	750–83–R2.2K
A9U24	1826–1081	1	IC OP AMP PRCN 8 PIN DIP–P	03406	LF411ACN
A9VR1	1902–0551	1	DIODE–ZNR 6.2V 5% PD=1W IR=10UA	02037	SZ40145–8RL
A9VR2	1902–0950		DIODE–ZNR 4.7V 5% DO–35 PD=.4W TC+.025%	02237	FZ3359



NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

A9 Pulse

08360-60005

Ⓐ PULSE INPUT

L PLS EN

PULSE IN/OUT

J3

R1 4.22K

R2 51.1

U12A

C4 0.01

+5.2VF1

+1SVF1

+5.2VA

C58 6.8

C58 0.1

L12 3.6

CR30

C60 100

C61 100

C62 0.1

C63 0.1

R147 1.47K

R146 1.47K

R142 1.47K

Q23 S-251

R145 1K

R143 1K

R139 1.96K

R140 1.96K

Q24 4-809

CR1

C57 47p

R141 51.1

R3 47

R4 47

CR2

R144 100

Q20 S-251

U17B 10K

U13C

P1(1) INT PULSE

H INT PLS EN

Ⓒ PULSE MODULATOR CONTROL GATING

C1 0.01

U13A

H BIAS TRACK (SHT 2 BLK M)

CR3

R5 316

C3 47p

U12D

U13B

H=RF OFF OR SLOW PLS
L=RF ON

U12B N.C.

U12C

C2 0.01

U16A

U17A 10K

(BLK D) H SLOW

P1(25) L RF OFF

U17C 10K

Q26 3-405

R5 5.11K

R7 1K

U16B

U16C

U17D 10K

P1(50) L OPEN LOOP

H=INTEGRATE
L=HOLD

SLOW RISE 27MHz WAVEFORM

-8V
0V
-0.5V
-2V

U15 PIN 6 WAVEFORM, SCALAR PULSE MODE

Ⓔ SLOW RISE PULSE

+5.2VF1

SLOW SYM

R8 21.5K

Q21 3-405

R10 5.11K

R11 14.7K

R12 511

-15VF1

C5 1000p

CR5

CR6

CR7

CR8

R15 1K

R16 316

R14 12.1K

+1SVF1

C6 0.1

U15 OP-42

C7 0.1

R9 147K

R137 4.22K

R17 1K

SLO DRV

Ⓕ FAST PULSE

+1SVF1

R18 1.1K

R124 1.1K

Q22 3-563

Q25 3-563

+5.2VF1

R19 422

C8 0.01

R20 422

L1 4.7

C9 1.0

PULSE RET

P2(29)

P2(58)

R120 750

CR13

CR9

CR10

CR11

CR12

R21 100

Q27 4-028

R23 51.1

R135 51.1

Q29 3-563

C10 1.0

Q30 3-563

R122 261

Q28 4-028

R121 750

R123 261

R22 261

L2 4.7

C11 0.01

R24 10

Ⓚ MOD SELECT

+1.5VF1

+5.2VF1

+15VF1

U20A LM393

P1(48)

L LOBAND (SHT 2 BLK P)

-15VF1

CR15

R25 1K

R127 100K

R128 100K

Q31 3-563

R125 68.1K

H PLS OUT

TP8

HI PLS OUT

U18B 10K

U18A 10K

C55 0.01

R126 147K

U19A 8-116

U18C 12

U21A 2.2K

U21B 2.2K

R27 10K

P2(30) MOD/SPLITTER PULSE MODULATOR

R129 100K

U20B LM393

R130 100K

R131 100K

Q32 3-563

CR16

R26 1K

R133 68.1K

U18C 10K

U18D 10K

C56 0.01

R134 147K

L PLS OUT

TP9

LO PLS OUT

U19B 8-116

U18D 12

U21C 2.2K

U21D 2.2K

R13 10K

P2(60) LOBAND PULSE MODULATOR

R132 100K

Ⓑ POWER SUPPLIES

+15V

P2(8) P2(9) P2(38) P2(39)

L3 15

C15 6.8

+15VF1

L4 15

C16 6.8

+15VF2

L5 15

C17 6.8

+15VF3

+5.2VA

P2(18) P2(48)

L6 15

C18 22

R39 3.48K

+5.2VF1

R40 1.47K

+1.5VF1

L7 15

C19 22

R41 3.48K

+5.2VF2

R42 1.47K

+1.5VF2

-5.2V

P2(16) P2(17)

L8 15

C20 22

-5.2VF

-15V

P2(11) P2(12) P2(41) P2(42)

L9 15

C21 6.8

-15VF1

L10 15

C22 6.8

-15VF2

L11 15

C23 6.8

-15VF3

P1(3) P1(8) P1(13) P1(14) P1(19) P1(22) P1(28) P1(33) P1(38) P1(39) P1(44) P1(47)

GND

P2(7) P2(10) P2(13) P2(15) P2(18) P2(37) P2(40) P2(43) P2(45) P2(48)

GND

TP7 GND

TP4 GND

TP2

Ⓓ DIGITAL INTERFACE

P1(30) A2
P1(31) A4
A5
P1(7) P1(26) A6 LSTRB 3

U3 HC138 DMUX

SRD BIAS DAC
CLAMP DAC

N.C.

P1(3) P1(34) P1(10) P1(35) P1(11) P1(36) P1(12) P1(37) DB0 DB1 DB2 DB3 DB4 DB5 DB6 DB7

U4 HC273

L PLS EN (BLK A)
H INT PLS EN (BLK A)
H SLOW (BLK C)
N.C.
L B1 (SHT 2 BLK L)
L B2-3 (SHT 2 BLK L)
N.C.

P1(43) H+5VUP

U5 HC273

N.C.

DATA BUS

Ⓗ ANALOG BUS

+15VF1

CR22

U14 MUX

(SHT1 BLK K) HI PLS OUT
(SHT1 BLK C) SLO DRV
(SHT1 BLK J) I/H
(SHT2 BLK N) RAMP
(SHT2 BLK L) CLAMP
(SHT2 BLK M) DET T/H
SRD OUT
LO PLS OUT

ABUS 4

P2(23)

CR23

-15VF1

Ⓙ INTEGRATE & HOLD DELAY

+5.2VF1

C14 0.01

R28 1.21K

+15VF1

R32 3.48K

Q13 3-405

CR18 20V

C12 0.01

C13 100p

R31 51.1

Q12 3-563

Q8 3-563

R35 348

R36 730

R37 1.1K

P1(48) TO ALC BOARD

P1(24)

CR20 20V

R29 100

-5.2VF

R30 10K

-15VF1

R33 261

R34 261

R38 10K

I/H

DATA BUS

TO SHEET 2

A9 Pulse
08360-60005
(SHEET 1 of 2)

(L) SQUEGGING CLAMP

RS5 0.25k
RS6 750
RS4 7.5k
RS7 2.15k
-4.40X/DEG C 1K@25°C
RT1 5k
-15VF2
+5.2VF2
U7 DAC
CLAMP DAC
A2
C1 (LOAD DAC A)
C2 (LOAD DAC B)
AD7528
DAC A
DAC B
VREF
RFB
C29 47p
C30 47p
U9B
U9A
RS8 422
+15VF2
R60 6.81k
Q8 3-075
C34 0.01
+15VF288
U5A LF412
C35 0.01
C36 0.01
C37 0.1
VR1 6.19V
TP5 CLAMP
R67 1k
CLAMP (SHT 1 BLK D)
R66 8.06k
R56 4.22k
L RF OFF
Q7
RS9 51.1
4-457
RS1 38.3k
R62 178
R63 21.5k
R64 68.1k
C38 0.01
SLOW SYN
FROM SHEET 1
DATA BUS

(N) BIAS RAMP

A2 P1(5)
YO -1.25V/GHz P2(56)
RCF GND P2(55)
R43 8.25k
R46 8.25k
R44 14.7k
R47 16.2k
R45 16.2k
C25 47p
C26 47p
C27 0.01
C28 0.01
U10A LF412A
+5.2VF288
-15VF284
2.7 GHZ 6.7 GHZ
0V
-10V
2.7GHZ
6.7GHZ
R50 14.7k
RS1 10k
RS2 10k
U10B LF412A
BRD BIAS DAC
U8 DAC
DAC A
DAC B
AD7528
RFB
H.C.
C31 47p
C32 0.01
C33 0.01
U6B LF412A
TP3 RAMP
RAMP (SHT 1 BLK H)
R53 1k
0 TO 10V

(M) DETECTOR TRACK & HOLD

J2 DETECTOR IN AMP/DETECTOR
R82 21.5
R83 3.16k
C42 10p
R84 51.1
Q10 4-457
C43 0.01
R86 12.1k
R87 50K OFS
CW
C44 510p
C45 510p
Q11 S-232
U11 OP-42
C46 0.01
C47 0.01
R85 100
TP6 DET T/H
R88 1k
DET T/H (SHT 1 BLK H)
R89 3.16k
R90 1k
R91 2.15k
R49 422
Q14 4-028
CR26
CR27
R92 422
Q16 3-563
R78 1.1k
R79 185
R80 185
R81 100
Q17 3-405
Q15 3-405
R48 3.16k
C54 0.01
DELAY
R77 51.1
R76 500
C41 100p
Q18 4-808
Q19 3-405
R71 422
R72 215
R75 51.1
R73 348
R74 2.61k
H BIAS TRACK (SHT 1 BLK C)

(P) SRD BIAS GENERATOR

R93 3.16k
C50 1000p
R94 4.22k
C51 0.01
Q5 3-268
R95 7.5k
R96 7.5k
U2 OP-27
C48 0.01
R97 12.1k
R98 1.33k
CR28
R99 50
C POT
Q4 3-268
R100 1.21k
R101 1.33k
R102 1M
R103 1.1k
MIN
R105 500
R104 7.5k
R106 10k
R107 215
R108 51.1
-4.40X/DEG C 1K@25°C
RT2 5k
P2(57) YTH +100mV/DEG C
U1A LM339
$5.2VF283
N.C.
$15VF2812
U1B LM339
U1C LM339
U1D LM339
(SHT 1 BLK K) L LO BAND
(SHT 1 BLK D) L B1
(SHT 1 BLK D) L B2-3
R118 21.5k
R119 21.5k
CR29
R115 4.22k
R114 10k
R111 4.22k
R113 147k
R112 21.5
Q1 5-420
Q3 4-028
R110 51.1
Q2 3-563
R109 5.62k
C53 0.01
C52 0.01
R116 10k
TP1 BIAS
J1
SRD BIAS TO YTH
R117 21.5
SRD OUT (SHT 1 BLK H)

NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
C53	R147
CR30	R72
J3	TP8
L12	U21
P2	VR1
Q32	

A9 Pulse
08360-60005
(SHEET 2 of 2)

Schematic Package for 08360-60152 A9 Pulse

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Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60152 (1 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9	08360–60152	1	BD AY–PULSE	28480	08360–60152
A9C1	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C2	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C3	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C4	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C5	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A9C6	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C7	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C8	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C9	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A9C10	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A9C11	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C12	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C13	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A9C14	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C15	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A9C16	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A9C17	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A9C18	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X9015B2–DYS
A9C19	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X9015B2–DYS
A9C20	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X9015B2–DYS
A9C21	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A9C22	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A9C23	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A9C24	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C25	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C26	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C27	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C28	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C29	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C30	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C31	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C32	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C33	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C34	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C35	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C36	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C37	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C38	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C39	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C40	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C41	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A9C42	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	02010	SA102A100JAAH
A9C43	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C44	0160–5871	1	CAP–FXD 510pF ±1% 100 V CER C0G	09939	RPA20C0G511F100V
A9C45	0160–5871	1	CAP–FXD 510pF ±1% 100 V CER C0G	09939	RPA20C0G511F100V

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60152 (2 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9C46	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C47	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C48	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C49	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C50	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A9C51	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C52	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C53	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C54	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C55	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C56	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C60	0180–3941	1	CAP–FXD 100uF ±10% 10 V TA	12340	T396J107K010AS
A9C61	0180–3941	1	CAP–FXD 100uF ±10% 10 V TA	12340	T396J107K010AS
A9C62	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C63	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR13	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR15	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR16	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR17	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR18	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR19	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A9CR20	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A9CR22	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR23	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR24	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR25	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR26	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR27	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR28	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR29	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A9J2	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A9J3	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A9J4	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60152 (3 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9L1	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A9L2	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A9L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L5	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L6	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L7	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L8	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L9	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L10	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L11	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L12	9100–3560	1	INDUCTOR RF–CH–MLD 5.6UH ±5%	03273	15M561J
A9MP2	0403–0621	1	EXTR–PC BD BLK NYL .062–IN–BD–THKNS	02123	91–2–BLACK–5
A9MP3	0403–0626	1	EXTR–PC BD WHT NYL .062–IN–BD–THKNS	02123	91–2–WHITE–0
A9MP4	0340–1135	2	SPACER–COMPONENT FOR MOST RADIAL LEAD	03724	300–100
A9P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A9P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A9Q1	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A9Q2	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q3	1854–1028	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904
A9Q4	1853–0269	1	TRANSISTOR–DUAL PNP 2N3809 TO–78	02037	2N3809
A9Q5	1853–0269	1	TRANSISTOR–DUAL PNP 2N3809 TO–78	02037	2N3809
A9Q6	1853–0269	1	TRANSISTOR–DUAL PNP 2N3809 TO–78	02037	2N3809
A9Q7	1854–0457	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD485
A9Q8	1853–0075	1	TRANSISTOR–DUAL PNP PD=400MW	02037	
A9Q9	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q10	1854–0457	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD485
A9Q11	1855–0232	1	TRANSISTOR–JFET DUAL 2N5565 N–CHAN	02883	2N5565
A9Q12	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q13	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q14	1854–1028	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904
A9Q15	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q16	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q17	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q18	1854–0809	1	TRANSISTOR NPN 2N2369A SI TO–18 PD=360MW	02037	2N2369A
A9Q19	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q21	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q22	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q25	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q26	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q27	1854–1028	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904
A9Q28	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q29	1854–1028	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904
A9Q30	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q31	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60152 (4 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9Q32	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9R1	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R2	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R3	0698–3620	1	RESISTOR 100 ±5% 2W MO TC=0±200	02499	GS–3
A9R4	0698–3620	1	RESISTOR 100 ±5% 2W MO TC=0±200	02499	GS–3
A9R5	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R6	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R7	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R8	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R9	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R10	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R11	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R12	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R13	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R14	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R15	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R16	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R17	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R18	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R19	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R20	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R21	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R22	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R23	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R24	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R25	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R26	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R27	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R28	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R29	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R30	0757–0289	1	RESISTOR 13.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R31	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R32	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R33	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R34	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R35	0698–3445	1	RESISTOR 348 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R36	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R37	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R38	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R39	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R40	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R41	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R42	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R43	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R44	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R45	0757–0447	1	RESISTOR 16.2K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60152 (5 of 7)

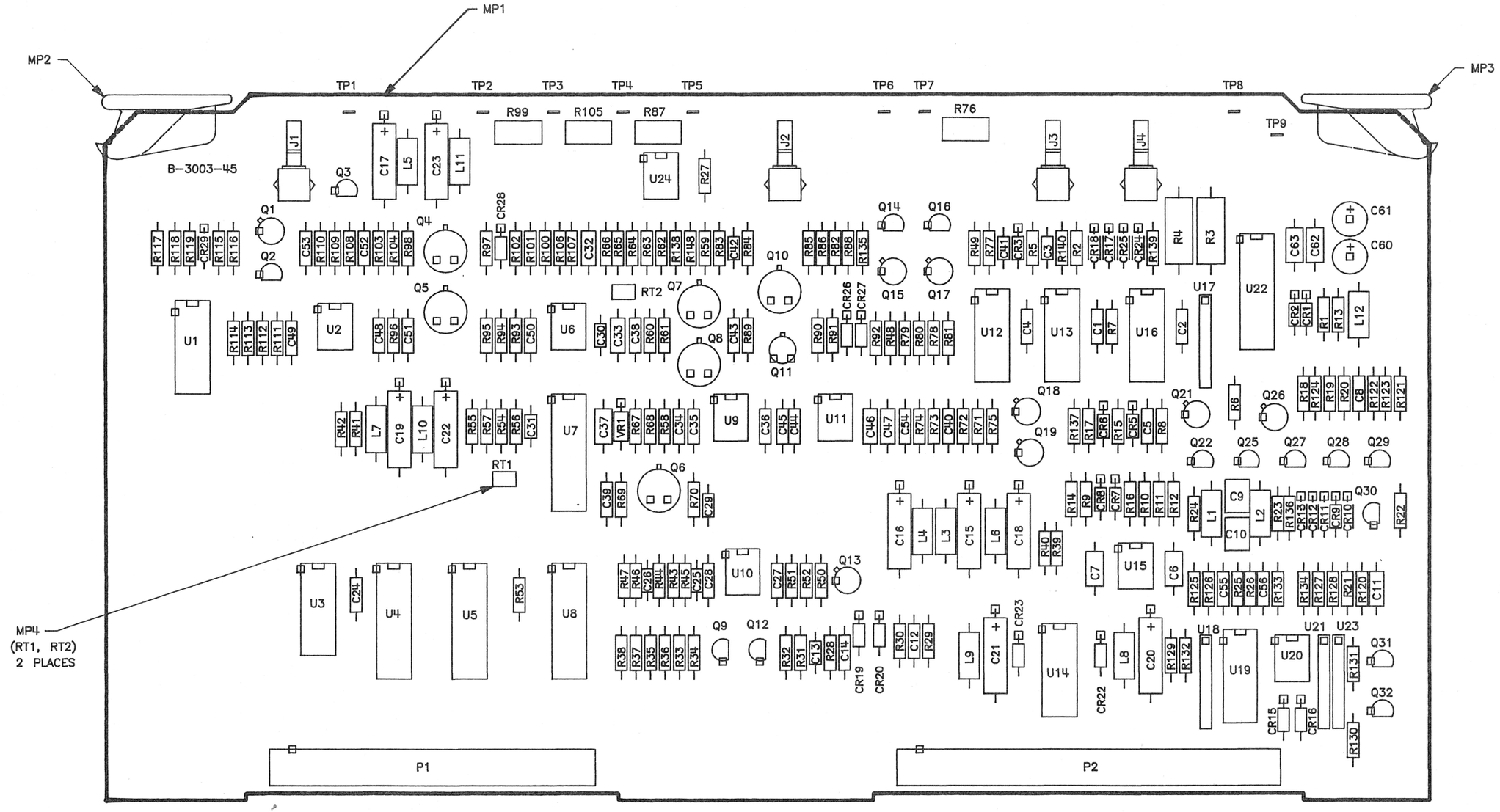
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9R46	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R47	0757–0447	1	RESISTOR 16.2K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R48	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R49	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R50	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R51	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R52	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R53	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R54	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R55	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R56	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R57	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R58	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R59	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R60	0757–0439	1	RESISTOR 6.81K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R61	0698–3161	1	RESISTOR 38.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R62	0698–3439	1	RESISTOR 178 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R63	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R64	0757–0461	1	RESISTOR 68.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R65	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R66	0757–0288	1	RESISTOR 9.09K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R67	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R68	0757–0288	1	RESISTOR 9.09K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R69	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R70	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R71	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R72	0698–3441	1	RESISTOR 215 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R73	0698–3445	1	RESISTOR 348 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R74	0698–0085	1	RESISTOR 2.61K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R75	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R76	2100–3351	1	RESISTOR–TRMR 500 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–501
A9R77	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R78	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R79	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R80	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R81	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R82	0698–3430	1	RESISTOR 21.5 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R83	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R84	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R85	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R86	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R87	2100–3354	1	RESISTOR–TRMR 50K 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–503
A9R88	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R89	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R90	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60152 (6 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9R91	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R92	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R93	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R94	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R95	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R96	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R97	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R98	0757–0317	1	RESISTOR 1.33K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R99	2100–0552	1	RESISTOR–TRMR 50 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–500
A9R100	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R101	0757–0317	1	RESISTOR 1.33K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R102	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R103	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R104	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R105	2100–3351	1	RESISTOR–TRMR 500 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–501
A9R106	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R107	0698–3441	1	RESISTOR 215 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R108	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R109	0757–0200	1	RESISTOR 5.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R110	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R111	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R112	0698–3430	1	RESISTOR 21.5 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R113	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R114	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R115	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R116	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R117	0698–3430	1	RESISTOR 21.5 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R118	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R119	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R120	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R121	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R122	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R123	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R124	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R125	0757–0461	1	RESISTOR 68.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R126	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R127	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R128	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R129	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R130	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R131	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R132	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R133	0757–0461	1	RESISTOR 68.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R134	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R135	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R136	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60152 (7 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9R137	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R138	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R139	8159–0005	1	RESISTOR 0 CWM	01339	L–2007–1
A9R140	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R148	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9RT1	0837–0035	1	THERMISTOR DISC 5K–OHM TC=–4.4–DEG	05098	35D24
A9RT2	0837–0035	1	THERMISTOR DISC 5K–OHM TC=–4.4–DEG	05098	35D24
A9TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A9U1	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A9U2	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27GZ
A9U3	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A9U4	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A9U5	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A9U6	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U7	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A9U8	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A9U9	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U10	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U11	1826–1844	1	IC OP AMP HS 8 PIN DIP–C	02180	OP–42FZ
A9U12	1820–2739	1	IC GATE TTL/ALS NOR QUAD 2–INP	01698	SN74ALS02N
A9U13	1820–2774	1	IC GATE TTL/ALS NAND DUAL 4–INP	01698	SN74ALS20AN
A9U14	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A9U15	1826–1844	1	IC OP AMP HS 8 PIN DIP–C	02180	OP–42FZ
A9U16	1820–2775	1	IC GATE TTL/ALS NAND TPL 3–INP	01698	SN74ALS10AN
A9U17	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A9U18	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A9U19	1858–0116	1	TRANSISTOR ARRAY 14–PIN PLSTC TO–116	02883	VQ1001J
A9U20	1826–0412	1	IC COMPARATOR PRCN DUAL 8 PIN DIP–P	03406	LM393N
A9U21	1810–0347	1	NETWORK–RES 8–SIP 2.2K OHM X 4	02483	750–83–R2.2K
A9U22	1820–2557	1	IC DRVR TTL/AS NAND HEX 2–INP	01698	SN74AS804BN
A9U23	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A9U24	1826–1081	1	IC OP AMP PRCN 8 PIN DIP–P	03406	LF411ACN
A9VR1	1902–0551	1	DIODE–ZNR 6.2V 5% PD=1W IR=10UA	02037	SZ40145–8RL

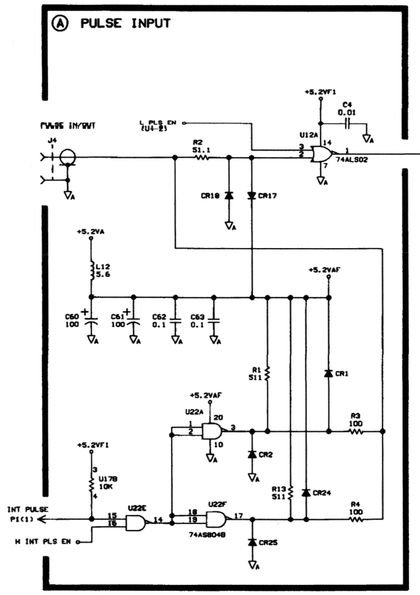


NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

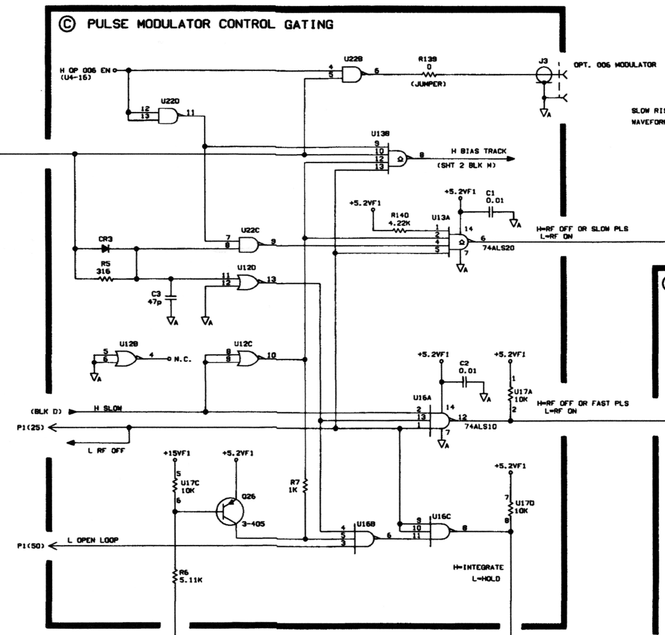
HEWLETT PACKARD

A9 Pulse
08360-60152

Ⓐ PULSE INPUT



Ⓒ PULSE MODULATOR CONTROL GATING

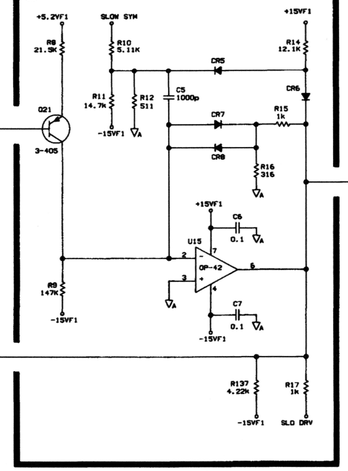


SLOW RISE 27KHz WAVEFORM

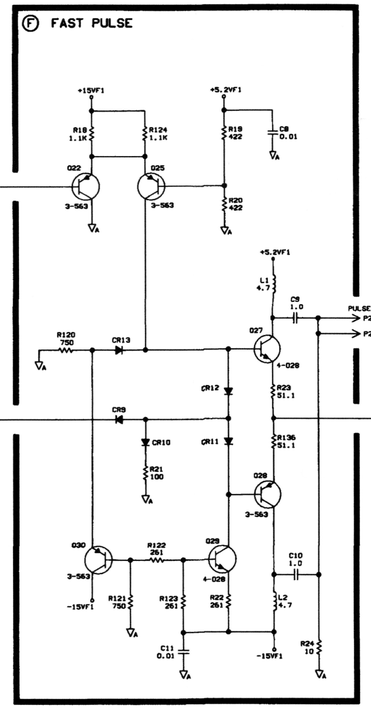


U15 PIN 6 WAVEFORM, SCALAR PULSE MODE

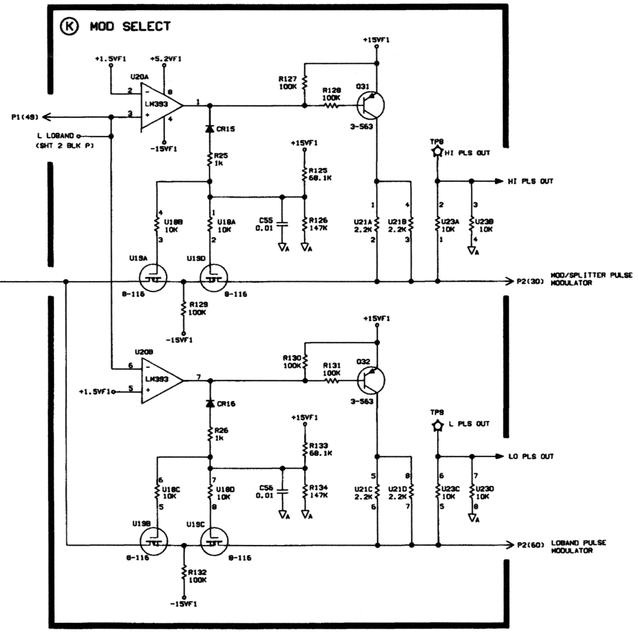
Ⓔ SLOW RISE PULSE



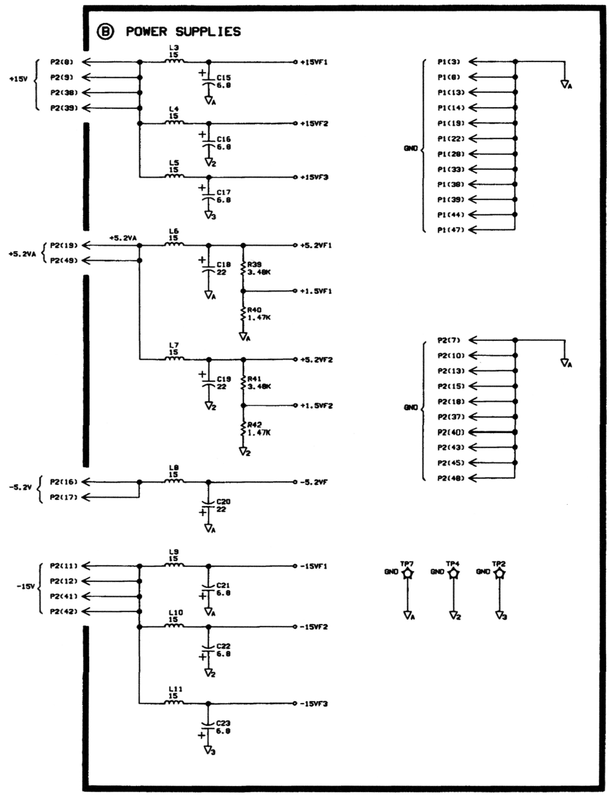
Ⓕ FAST PULSE



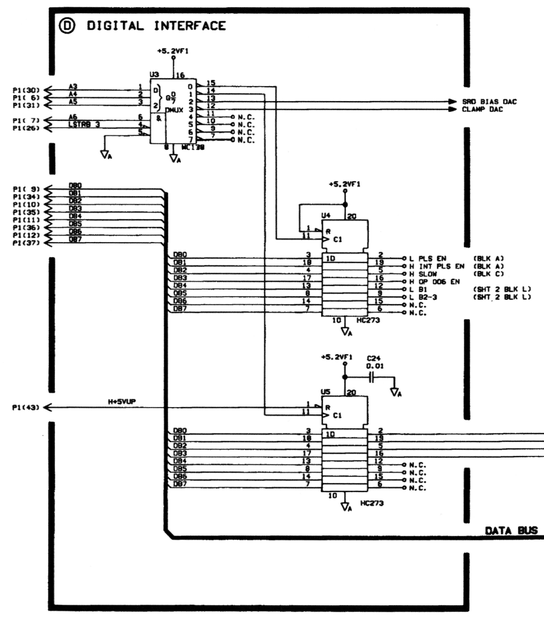
Ⓚ MOD SELECT



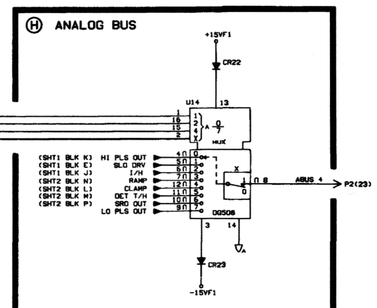
Ⓑ POWER SUPPLIES



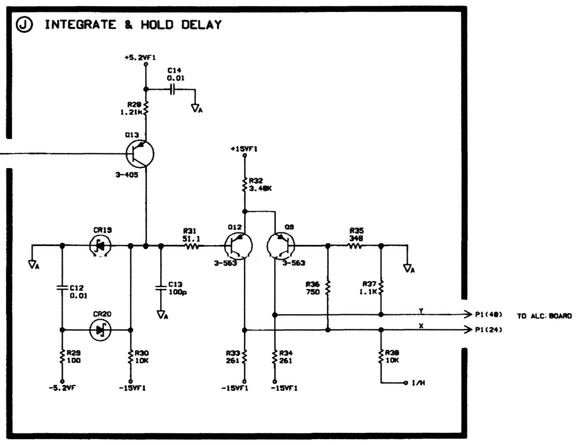
Ⓓ DIGITAL INTERFACE



Ⓗ ANALOG BUS



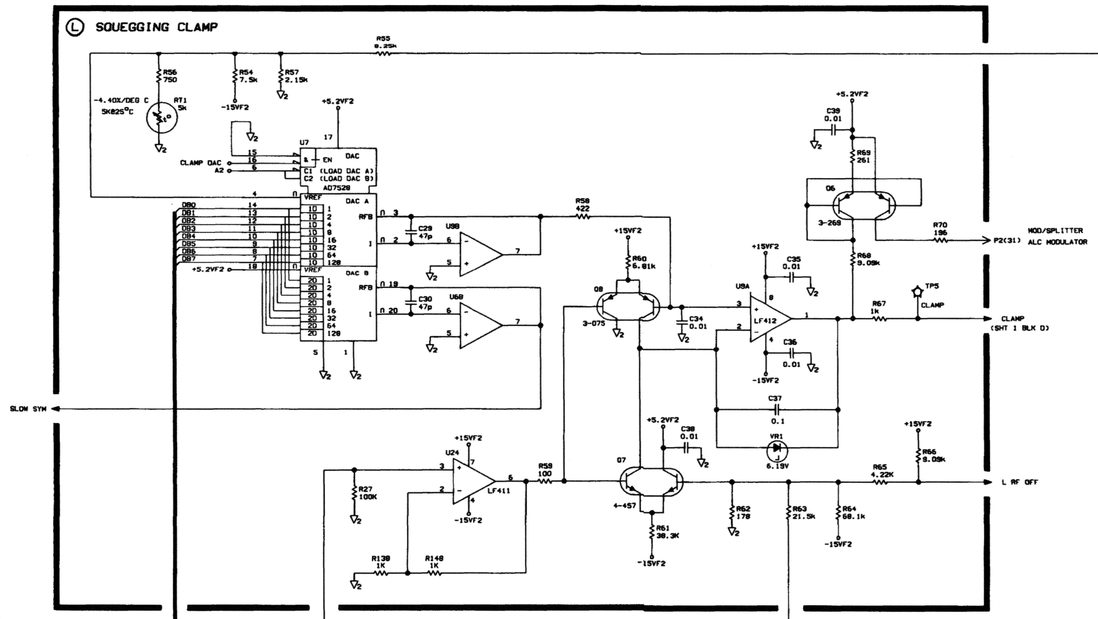
Ⓙ INTEGRATE & HOLD DELAY



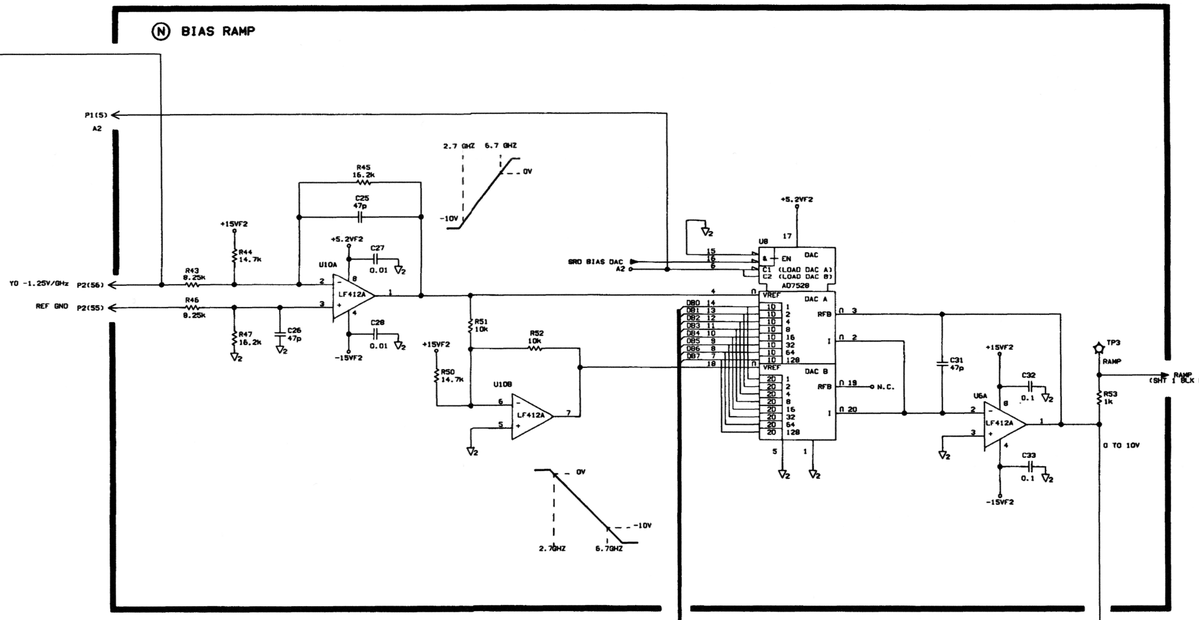
DATA BUS TO SHEET 2

A9 Pulse
08360-60152
(SHEET 1 of 2)

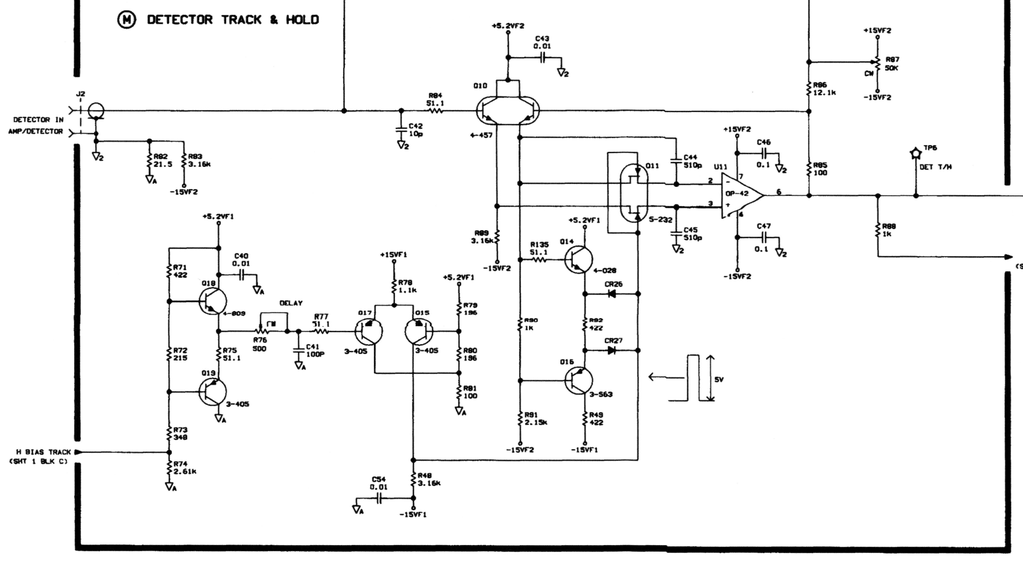
(L) SQUEGGING CLAMP



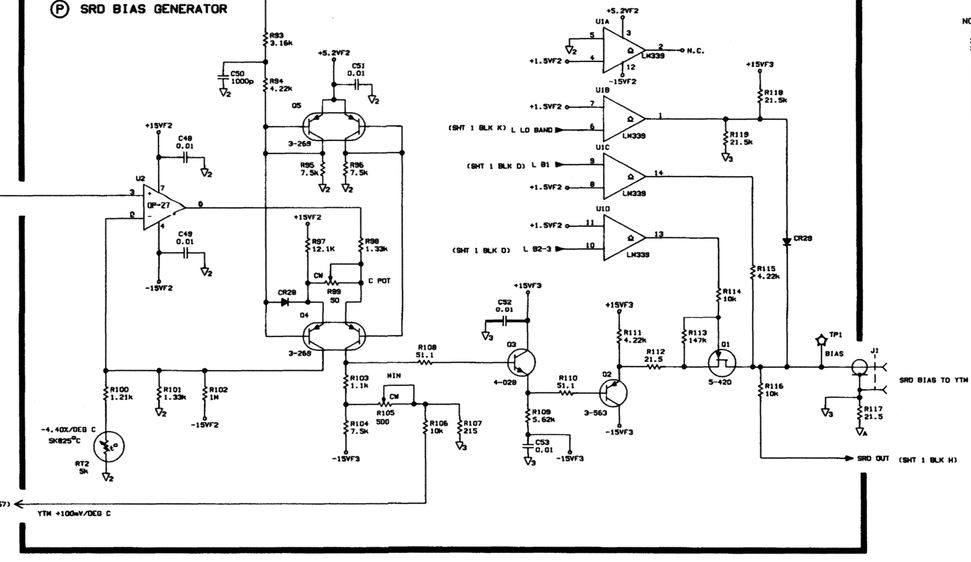
(N) BIAS RAMP



(M) DETECTOR TRACK & HOLD



(P) SRD BIAS GENERATOR



NOTES: UNLESS OTHERWISE SPECIFIED.

1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
C53	C57-58
CR29	CR4, 14, 21
J4	
L12	
P2	
Q32	Q20, 23, 24
R148	R141-147
RT2	
TP8	
U24	
VR1	

A9 Pulse
08360-60152
(SHEET 2 of 2)

Schematic Package for 08360-60188 A9 Pulse

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Information in this document is subject to change without notice. The configuration of some assemblies may differ from that indicated in this document.



Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60188 (1 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9	08360–60188	1	BD AY–PULSE	28480	08360–60188
A9C1	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C2	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C3	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C4	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C5	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A9C6	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C7	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C8	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C9	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A9C10	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A9C11	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C12	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C13	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A9C14	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C15	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A9C16	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A9C17	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C18	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A9C19	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A9C20	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A9C21	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A9C22	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A9C23	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C24	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C25	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C26	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C27	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C28	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C29	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C30	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C31	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C32	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C33	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C34	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C35	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C36	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C37	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C38	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C39	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C40	0160–4808	1	CAP–FXD 470pF ±5% 100 V CER C0G	02010	SA101A471JAAH
A9C41	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C42	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C43	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C44	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60188 (2 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9C45	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C46	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C47	0160–4808	1	CAP–FXD 470pF ±5% 100 V CER C0G	02010	SA101A471JAAH
A9C52	0180–3941	1	CAP–FXD 100uF ±10% 10 V TA	12340	T396J107K010AS
A9C53	0180–3941	1	CAP–FXD 100uF ±10% 10 V TA	12340	T396J107K010AS
A9C54	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C55	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C56	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C57	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C58	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR4	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR13	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR14	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR15	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR16	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR17	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR18	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR19	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A9CR20	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A9CR22	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR23	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR24	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR25	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A9J2	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A9L1	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A9L2	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A9L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L6	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L7	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L8	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L9	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L10	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60188 (3 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9L12	9100–3560	1	INDUCTOR RF–CH–MLD 5.6UH ±5%	03273	15M561J
A9MP2	0403–0621	1	EXTR–PC BD BLK NYL .062–IN–BD–THKNS	02123	91–2–BLACK–5
A9MP3	0403–0626	1	EXTR–PC BD WHT NYL .062–IN–BD–THKNS	02123	91–2–WHITE–0
A9P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A9P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A9Q2	1854–0457	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD485
A9Q3	1853–0075	1	TRANSISTOR–DUAL PNP PD=400MW	02037	
A9Q4	1853–0269	1	TRANSISTOR–DUAL PNP 2N3809 TO–78	02037	2N3809
A9Q5	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q6	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q7	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q8	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q9	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q10	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q11	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q12	1854–1028	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904
A9Q13	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q14	1854–1028	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904
A9Q15	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q16	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q17	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9R1	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R2	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R3	0698–3620	1	RESISTOR 100 ±5% 2W MO TC=0±200	02499	GS–3
A9R4	0698–3620	1	RESISTOR 100 ±5% 2W MO TC=0±200	02499	GS–3
A9R5	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R6	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R7	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R8	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R9	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R10	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R11	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R12	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R13	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R14	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R15	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R16	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R17	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R18	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R19	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R20	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R21	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R22	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R23	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R24	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R25	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60188 (4 of 6)

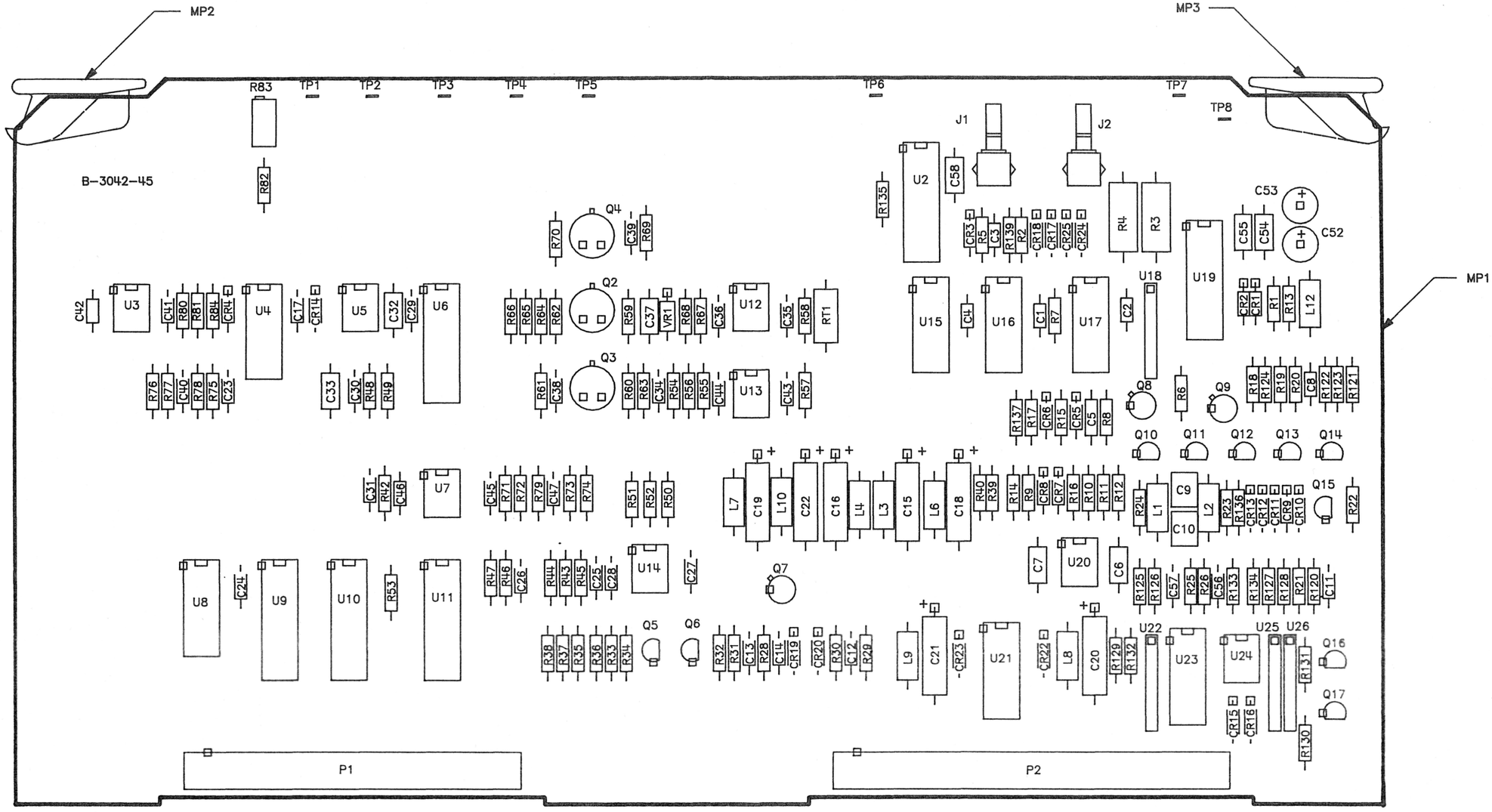
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9R26	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R28	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R29	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R30	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R31	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R32	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R33	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R34	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R35	0698–3445	1	RESISTOR 348 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R36	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R37	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R38	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R39	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R40	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R42	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R43	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R44	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R45	0757–0447	1	RESISTOR 16.2K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R46	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R47	0757–0447	1	RESISTOR 16.2K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R48	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R49	0757–0317	1	RESISTOR 1.33K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R50	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R51	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R52	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R53	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R54	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R55	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R56	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R57	0698–6320	1	RESISTOR 9K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A9R58	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A9R59	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R60	0757–0439	1	RESISTOR 6.81K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R61	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R62	0698–3439	1	RESISTOR 178 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R63	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R64	0757–0461	1	RESISTOR 68.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R65	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R66	0757–0288	1	RESISTOR 9.09K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R67	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R68	0757–0288	1	RESISTOR 9.09K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R69	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R70	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R71	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R72	0698–6627	1	RESISTOR 25K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A9R73	0698–6348	1	RESISTOR 3K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60188 (5 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9R74	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R75	0698–3151	1	RESISTOR 2.87K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R76	0698–6348	1	RESISTOR 3K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A9R77	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R78	0698–6620	1	RESISTOR 150K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A9R79	0698–6348	1	RESISTOR 3K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A9R80	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R81	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R82	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R83	2100–3732	1	RESISTOR–TRMR 500 10% TKF SIDE–ADJ	04568	67XR
A9R84	0698–3443	1	RESISTOR 287 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R120	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R121	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R122	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R123	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R124	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R125	0757–0461	1	RESISTOR 68.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R126	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R127	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R128	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R129	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R130	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R131	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R132	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R133	0757–0461	1	RESISTOR 68.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R134	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R135	8159–0005	1	RESISTOR 0 CWM	01339	L–2007–1
A9R136	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R137	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R139	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9RT1	0811–3575	1	RESISTOR 3K ±2% .125W PN TC=+5600±300	01854	R3118
A9TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A9U2	1820–3443	1	IC DRVR TTL/AS AND HEX 2–INP	01698	SN74AS808BN
A9U3	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U4	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A9U5	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U6	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A9U7	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U8	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60188 (6 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9U9	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A9U10	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A9U11	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A9U12	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U13	1826–1844	1	IC OP AMP HS 8 PIN DIP–C	02180	OP–42FZ
A9U14	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U15	1820–2739	1	IC GATE TTL/ALS NOR QUAD 2–INP	01698	SN74ALS02N
A9U16	1820–2774	1	IC GATE TTL/ALS NAND DUAL 4–INP	01698	SN74ALS20AN
A9U17	1820–2775	1	IC GATE TTL/ALS NAND TPL 3–INP	01698	SN74ALS10AN
A9U18	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A9U19	1820–2557	1	IC DRVR TTL/AS NAND HEX 2–INP	01698	SN74AS804BN
A9U20	1826–1844	1	IC OP AMP HS 8 PIN DIP–C	02180	OP–42FZ
A9U21	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A9U22	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A9U23	1858–0116	1	TRANSISTOR ARRAY 14–PIN PLSTC TO–116	02883	VQ1001J
A9U24	1826–0412	1	IC COMPARATOR PRCN DUAL 8 PIN DIP–P	03406	LM393N
A9U25	1810–0347	1	NETWORK–RES 8–SIP 2.2K OHM X 4	02483	750–83–R2.2K
A9U26	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A9VR1	1902–0551	1	DIODE–ZNR 6.2V 5% PD=1W IR=10UA	02037	SZ40145–8RL



NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

A9 Pulse

08360-60188

Ⓐ PULSE INPUT

PULSE IN/OUT
L PLS EN (U4-2)
INT PULSE P1(1)
H INT PLS EN
H BIAS TRACK
H SLOW (BLK D)
P1(25)
L RF OFF
L OPEN LOOP P1(50)
H=RF OFF OR SLOW PLS
L=RF ON
H=RF OFF OR FAST PLS
L=RF ON
H=INTEGRATE
L=HOLD
H I/H ENABLE (BLK D)
74AS02
74AS804B
74AL820

Ⓑ POWER SUPPLIES

+15V P2(8) P2(9) P2(38) P2(39) → +15VF1
+15V P2(41) P2(42) → +15VF2
+5.2V P2(18) P2(49) → +5.2VF1
-5.2V P2(16) P2(17) → -5.2VF
-15V P2(11) P2(12) → -15VF1
GND P1(3) P1(6) P1(13) P1(14) P1(19) P1(22) P1(28) P1(33) P1(38) P1(39) P1(44) P1(47)
GND P2(7) P2(10) P2(13) P2(15) P2(18) P2(37) P2(40) P2(43) P2(45) P2(48)
TP6 GND TP4

Ⓒ PULSE MODULATOR CONTROL GATING

H OP 006 EN (U4-16)
OPT. 006 MODULATOR
(JUMPER)

Ⓓ DIGITAL INTERFACE

P1(30) P1(6) P1(31) P1(7) P1(26)
SRD GATE BIAS
CLAMP DACA
P1(9) P1(34) P1(10) P1(35) P1(11) P1(36) P1(12) P1(37)
(BLK A) L PLS EN
(BLK A) H INT PLS EN
(BLK C) H SLOW
H OP 006 EN
L B1
H B2-4
(BLK C) H I/H ENABLE
(SHEET 2 BLK N)
P1(43) H+5VUP
DATA BUS

Ⓔ SLOW RISE PULSE

SLOW RISE 27KHz WAVEFORM
+2V 0V -0.5V -2V
U15 PIN 6 WAVEFORM, SCALAR PULSE MODE

Ⓕ FAST PULSE

PULSE RET P2(29) P2(59)

Ⓗ ANALOG BUS

(SHT1 BLK K) HI PLS OUT
(SHT1 BLK E) SLO DRV
(SHT1 BLK J) I/H
(SHT2 BLK N) GATE
(SHT2 BLK L) CLAMP
N.C.
SOURCE
LO PLS OUT
ABUS 4 P2(23)

Ⓙ INTEGRATE & HOLD DELAY

P1(40) TO ALC BOARD
P1(24)
I/H

Ⓚ MOD SELECT

L LOBAND (SHEET 2 BLK N)
P1(49)
HI PLS OUT
MOD/SPLITTER PULSE MODULATOR P2(30)
LO PLS OUT
LOBAND PULSE MODULATOR P2(60)

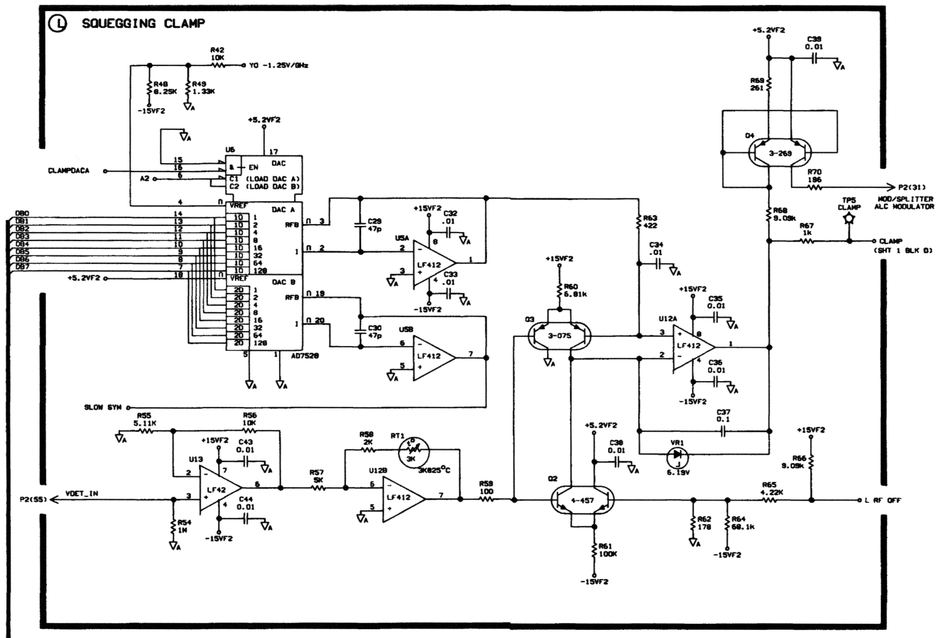
DATA BUS TO SHEET 2

A9 Pulse
08360-60188
(SHEET 1 of 2)

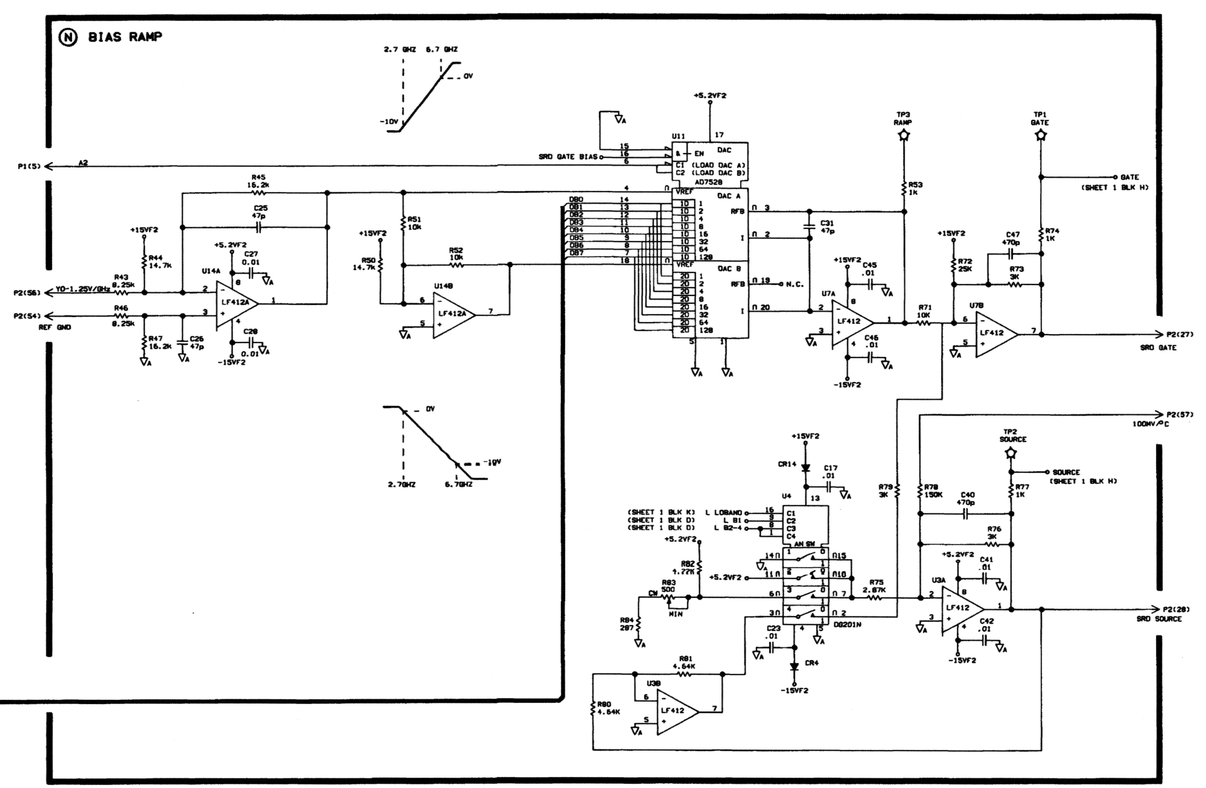
NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
CR8 CR25 J2 L12 P2 Q17 R138 RT1 TP8 U26 VR1	C48-51 CR21 L5,11 R85-119 U1

(L) SQUEGGING CLAMP



(N) BIAS RAMP



DATA BUS
FROM SHEET 1

A9 Pulse
08360-60188
(SHEET 2 of 2)

Schematic Package for 08360-60205 A9 Pulse

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Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60205 (1 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9	08360–60205	1	BD AY–PULSE 50G	28480	08360–60205
A9C1	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C2	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C3	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C4	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C5	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A9C6	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C7	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C8	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C9	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A9C10	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A9C11	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C12	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C13	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A9C14	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C15	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A9C16	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A9C17	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A9C18	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A9C19	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A9C20	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A9C21	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A9C22	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A9C23	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A9C24	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C25	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C26	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C27	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C28	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C29	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C30	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C31	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C32	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C33	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C34	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C35	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C36	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C37	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C38	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C39	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C40	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C41	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A9C42	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	02010	SA102A100JAAH
A9C43	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C44	0160–5871	1	CAP–FXD 510pF ±1% 100 V CER C0G	09939	RPA20C0G511F100V
A9C45	0160–5871	1	CAP–FXD 510pF ±1% 100 V CER C0G	09939	RPA20C0G511F100V

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60205 (2 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9C46	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C47	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C48	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C49	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C50	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A9C51	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C52	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C53	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C54	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C55	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C56	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C57	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C58	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C59	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C60	0180–3941	1	CAP–FXD 100uF ±10% 10 V TA	12340	T396J107K010AS
A9C61	0180–3941	1	CAP–FXD 100uF ±10% 10 V TA	12340	T396J107K010AS
A9C62	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C63	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C64	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C65	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR13	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR15	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR16	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR17	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR18	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR19	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A9CR20	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A9CR22	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR23	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR24	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR25	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR26	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR27	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR28	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60205 (3 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9CR29	1901–0050	1	DIODE–SWITCHING 60V 200MA 2NS DO–35	03406	
A9J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A9J2	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A9J3	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A9J4	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A9L1	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A9L2	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A9L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L5	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L6	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L7	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L8	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L9	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L10	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L11	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L12	9100–3560	1	INDUCTOR RF–CH–MLD 5.6UH ±5%	03273	15M561J
A9MP2	0403–0621	1	EXTR–PC BD BLK NYL .062–IN–BD–THKNS	02123	91–2–BLACK–5
A9MP3	0403–0626	1	EXTR–PC BD WHT NYL .062–IN–BD–THKNS	02123	91–2–WHITE–0
A9MP4	0340–1135	2	SPACER–COMPONENT FOR MOST RADIAL LEAD	03724	300–100
A9P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A9P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A9Q1	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A9Q2	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q3	1854–1028	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904
A9Q4	1853–0269	1	TRANSISTOR–DUAL PNP 2N3809 TO–78	02037	2N3809
A9Q5	1853–0269	1	TRANSISTOR–DUAL PNP 2N3809 TO–78	02037	2N3809
A9Q6	1853–0269	1	TRANSISTOR–DUAL PNP 2N3809 TO–78	02037	2N3809
A9Q7	1854–0457	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD485
A9Q8	1853–0075	1	TRANSISTOR–DUAL PNP PD=400MW	02037	
A9Q9	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q10	1854–0457	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD485
A9Q11	1855–0232	1	TRANSISTOR–JFET DUAL 2N5565 N–CHAN	02883	2N5565
A9Q12	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q13	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q14	1854–1028	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904
A9Q15	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q16	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q17	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q18	1854–0809	1	TRANSISTOR NPN 2N2369A SI TO–18 PD=360MW	02037	2N2369A
A9Q19	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q21	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q22	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q25	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q26	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q27	1854–1028	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60205 (4 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9Q28	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q29	1854–1028	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904
A9Q30	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q31	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q32	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9R1	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R2	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R3	0698–3620	1	RESISTOR 100 ±5% 2W MO TC=0±200	02499	GS–3
A9R4	0698–3620	1	RESISTOR 100 ±5% 2W MO TC=0±200	02499	GS–3
A9R5	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R6	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R7	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R8	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R9	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R10	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R11	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R12	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R13	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R14	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R15	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R16	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R17	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R18	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R19	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R20	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R21	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R22	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R23	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R24	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R25	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R26	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R27	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R28	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R29	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R30	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R31	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R32	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R33	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R34	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R35	0698–3445	1	RESISTOR 348 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R36	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R37	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R38	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R39	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R40	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R41	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60205 (5 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9R42	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R43	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R44	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R45	0757–0447	1	RESISTOR 16.2K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R46	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R47	0757–0447	1	RESISTOR 16.2K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R48	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R49	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R50	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R51	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R52	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R53	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R54	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R55	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R56	0698–3151	1	RESISTOR 2.87K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R57	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R58	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R59	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R60	0757–0439	1	RESISTOR 6.81K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R61	0698–3161	1	RESISTOR 38.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R62	0698–3439	1	RESISTOR 178 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R63	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R64	0757–0461	1	RESISTOR 68.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R65	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R66	0757–0288	1	RESISTOR 9.09K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R67	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R68	0757–0288	1	RESISTOR 9.09K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R69	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R70	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R71	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R72	0698–3441	1	RESISTOR 215 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R73	0698–3445	1	RESISTOR 348 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R74	0698–0085	1	RESISTOR 2.61K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R75	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R76	2100–3351	1	RESISTOR–TRMR 500 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–501
A9R77	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R78	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R79	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R80	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R81	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R82	0698–3430	1	RESISTOR 21.5 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R83	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R84	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R85	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R86	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R87	2100–3354	1	RESISTOR–TRMR 50K 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–503

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60205 (6 of 8)

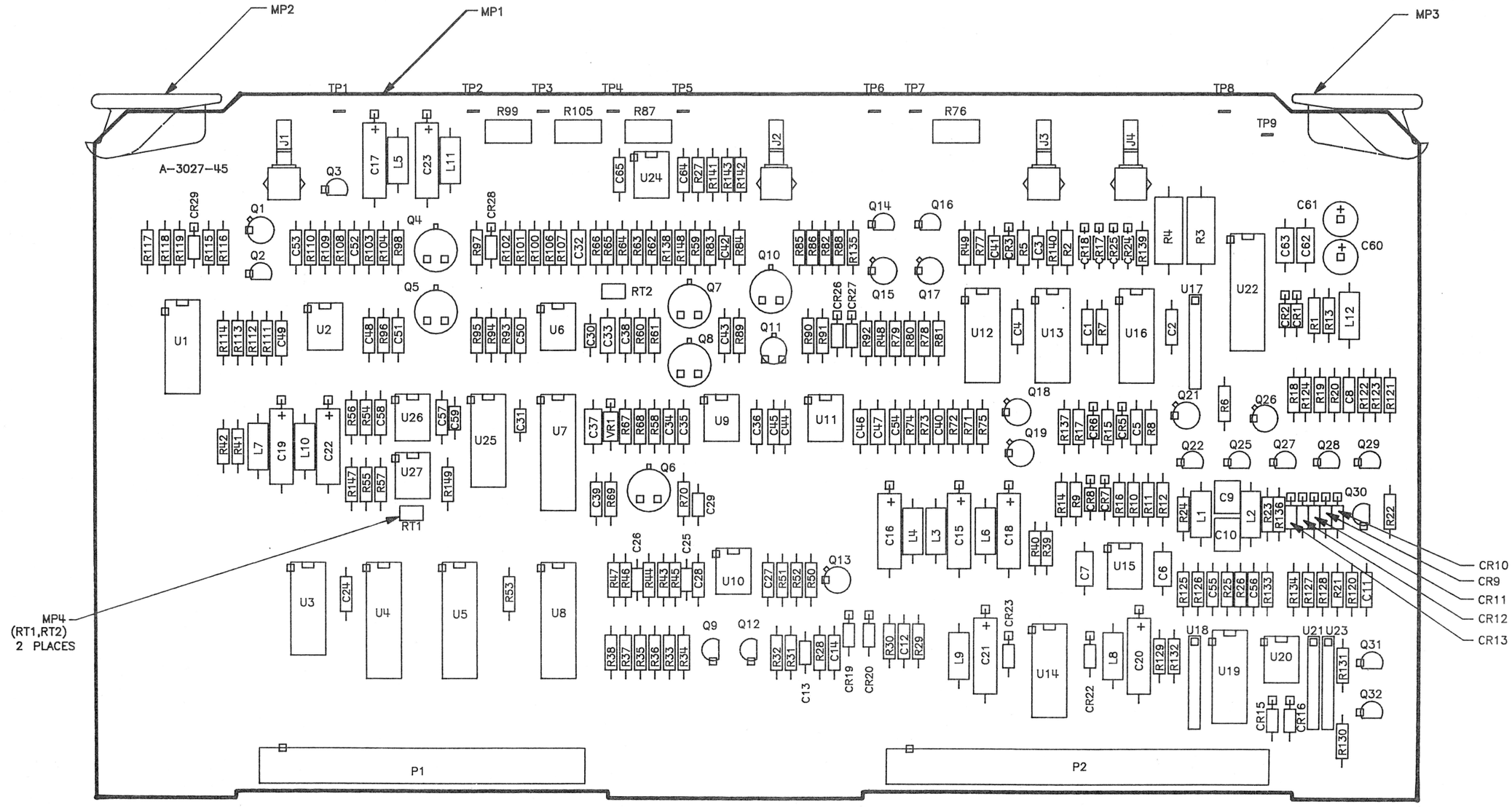
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9R88	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R89	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R90	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R91	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R92	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R93	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R94	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R95	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R96	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R97	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R98	0757–0317	1	RESISTOR 1.33K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R99	2100–0552	1	RESISTOR–TRMR 50 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–500
A9R100	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R101	0757–0317	1	RESISTOR 1.33K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R102	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R103	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R104	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R105	2100–3351	1	RESISTOR–TRMR 500 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–501
A9R106	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R107	0698–3441	1	RESISTOR 215 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R108	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R109	0757–0200	1	RESISTOR 5.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R110	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R111	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R112	0698–3430	1	RESISTOR 21.5 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R113	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R114	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R115	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R116	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R117	0698–3430	1	RESISTOR 21.5 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R118	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R119	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R120	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R121	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R122	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R123	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R124	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R125	0757–0461	1	RESISTOR 68.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R126	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R127	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R128	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R129	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R130	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R131	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R132	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R133	0757–0461	1	RESISTOR 68.1K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60205 (7 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9R134	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R135	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R136	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R137	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R138	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R139	8159–0005	1	RESISTOR 0 CWM	01339	L–2007–1
A9R140	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R141	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R142	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R143	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R147	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R148	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R149	0698–0083	1	RESISTOR 1.96K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9RT1	0837–0035	1	THERMISTOR DISC 5K–OHM TC=–4.4–DEG	05098	35D24
A9RT2	0837–0035	1	THERMISTOR DISC 5K–OHM TC=–4.4–DEG	05098	35D24
A9TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A9U1	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A9U2	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27GZ
A9U3	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A9U4	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A9U5	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A9U6	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U7	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A9U8	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A9U9	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U10	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U11	1826–1844	1	IC OP AMP HS 8 PIN DIP–C	02180	OP–42FZ
A9U12	1820–2739	1	IC GATE TTL/ALS NOR QUAD 2–INP	01698	SN74ALS02N
A9U13	1820–2774	1	IC GATE TTL/ALS NAND DUAL 4–INP	01698	SN74ALS20AN
A9U14	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A9U15	1826–1844	1	IC OP AMP HS 8 PIN DIP–C	02180	OP–42FZ
A9U16	1820–2775	1	IC GATE TTL/ALS NAND TPL 3–INP	01698	SN74ALS10AN
A9U17	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A9U18	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A9U19	1858–0116	1	TRANSISTOR ARRAY 14–PIN PLSTC TO–116	02883	VQ1001J
A9U20	1826–0412	1	IC COMPARATOR PRCN DUAL 8 PIN DIP–P	03406	LM393N
A9U21	1810–0347	1	NETWORK–RES 8–SIP 2.2K OHM X 4	02483	750–83–R2.2K
A9U22	1820–2557	1	IC DRVR TTL/AS NAND HEX 2–INP	01698	SN74AS804BN

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60205 (8 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9U23	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A9U24	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U25	1826–0639	1	D/A 8–BIT 16–PLASTIC CMOS	03285	AD7524JN
A9U26	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U27	1826–1081	1	IC OP AMP PRCN 8 PIN DIP–P	03406	LF411ACN
A9VR1	1902–0551	1	DIODE–ZNR 6.2V 5% PD=1W IR=10UA	02037	SZ40145–8RL



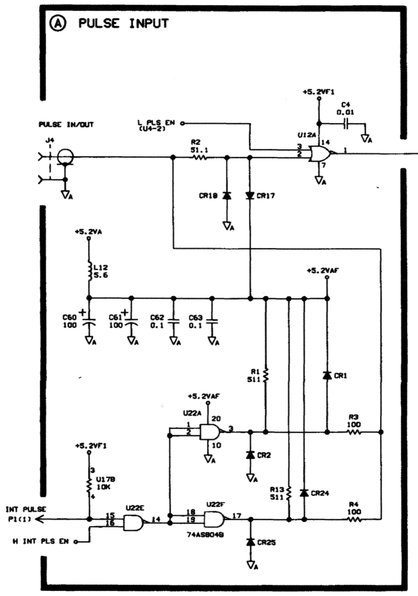
NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

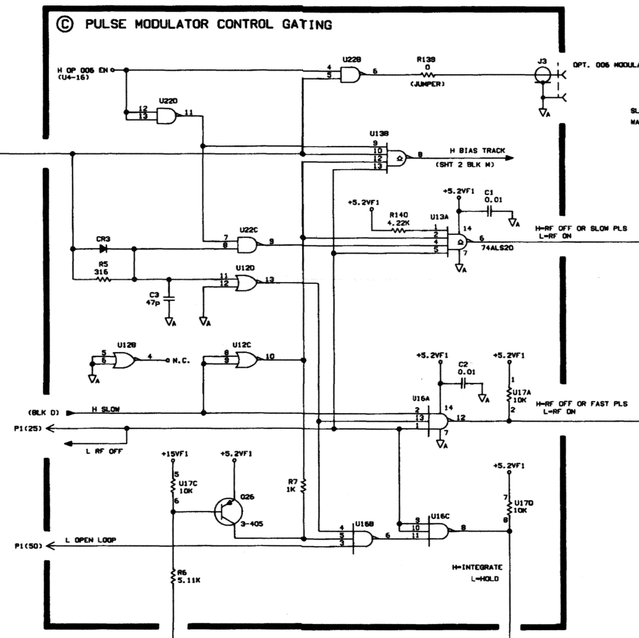
A9 Pulse

08360-60205

(A) PULSE INPUT



(C) PULSE MODULATOR CONTROL GATING

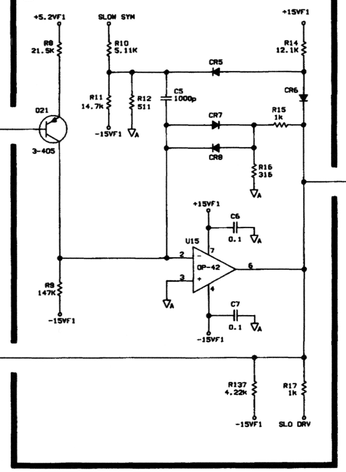


SLOW RISE 27KHz WAVEFORM

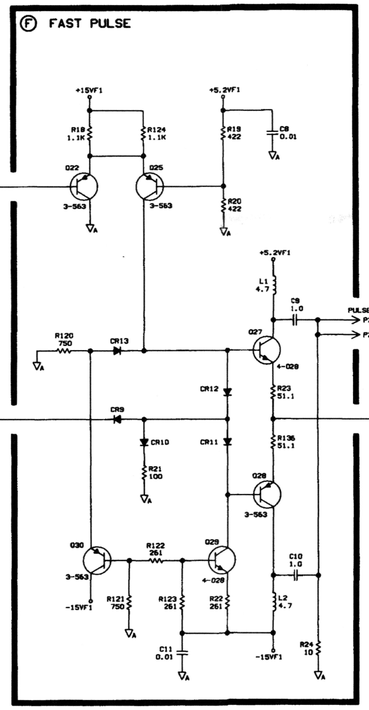


U15 PIN 6 WAVEFORM, SCALAR PULSE MODE

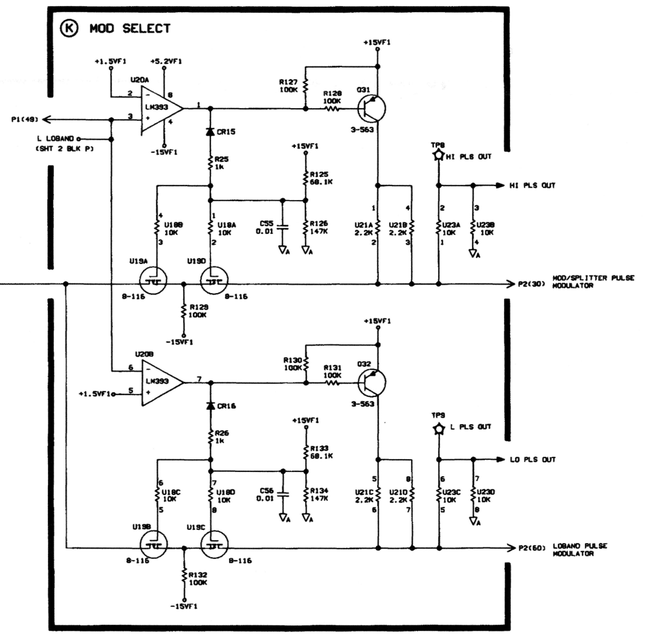
(E) SLOW RISE PULSE



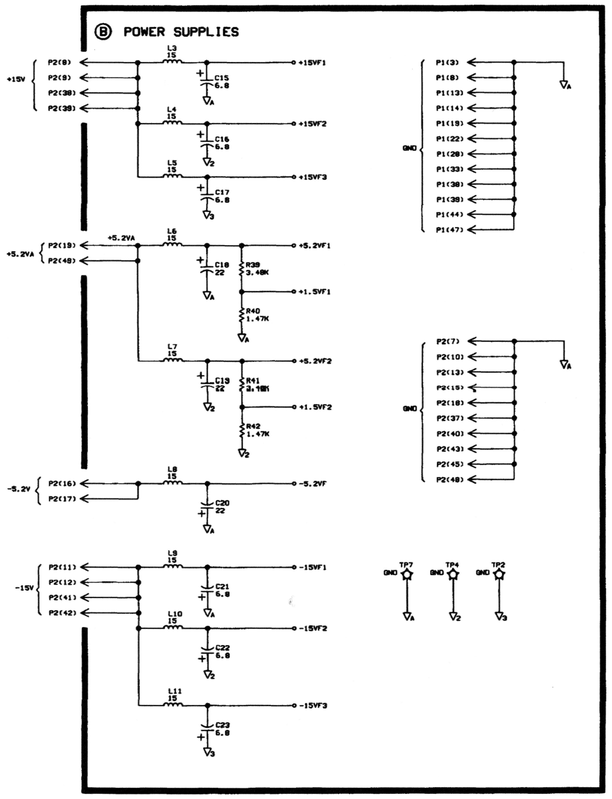
(F) FAST PULSE



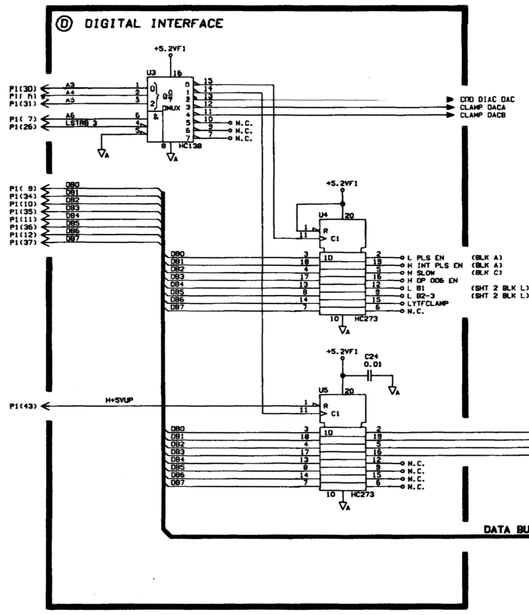
(K) MOD SELECT



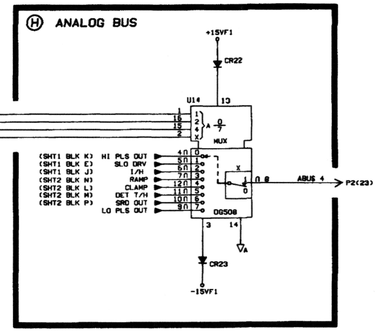
(B) POWER SUPPLIES



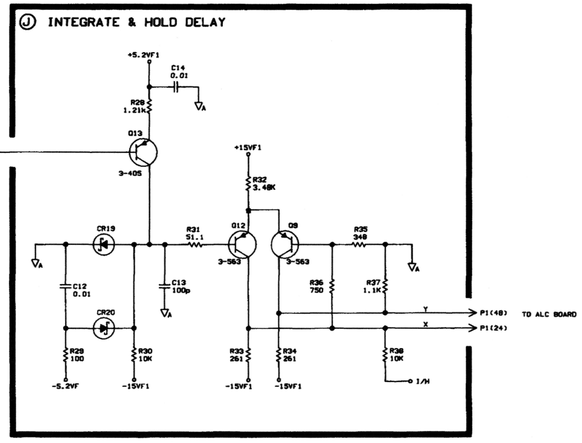
(D) DIGITAL INTERFACE



(H) ANALOG BUS



(J) INTEGRATE & HOLD DELAY



DATA BUS TO SHEET 2

A9 Pulse
08360-60205
(SHEET 1 of 2)

NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
C65 CR29 J4 L12 P2 Q32 R149 RT2 TP9 U27 VR1	CR4,14,21 Q23,24

(L) SQUEGGING CLAMP

(N) BIAS RAMP

(M) DETECTOR TRACK & HOLD

(P) SRD BIAS GENERATOR

DATA BUS

FROM SHEET 1

A9 Pulse
08360-60205
(SHEET 2 of 2)

Schematic Package for 08360-60232 A9 Pulse

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Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60232 (1 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9	08360–60232	1	BOARD AY–PULSE	28480	08360–60232
A9C1	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C2	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C3	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C4	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C5	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A9C6	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C7	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C8	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C9	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A9C10	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A9C11	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C12	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C13	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A9C14	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C15	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A9C16	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A9C17	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C18	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A9C19	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A9C20	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A9C21	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A9C22	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A9C23	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C24	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C25	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C26	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C27	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C28	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C29	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C30	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C31	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A9C32	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C33	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C34	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C35	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C36	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C37	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C38	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C39	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C40	0160–4808	1	CAP–FXD 470pF ±5% 100 V CER C0G	02010	SA101A471JAAH
A9C41	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C42	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C43	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C44	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C45	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60232 (2 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9C46	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C47	0160–4808	1	CAP–FXD 470pF ±5% 100 V CER C0G	02010	SA101A471JAAH
A9C52	0180–3941	1	CAP–FXD 100uF ±10% 10 V TA	12340	T396J107K010AS
A9C53	0180–3941	1	CAP–FXD 100uF ±10% 10 V TA	12340	T396J107K010AS
A9C54	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C55	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A9C56	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C57	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9C58	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A9CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR4	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR13	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR14	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR15	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR16	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR17	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR18	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR19	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A9CR20	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A9CR22	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR23	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR24	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR25	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A9CR26	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A9J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A9J2	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A9L1	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A9L2	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A9L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L6	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L7	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L8	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L9	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A9L10	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60232 (3 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9L12	9100–3560	1	INDUCTOR RF–CH–MLD 5.6UH ±5%	03273	15M561J
A9MP2	0403–0621	1	EXTR–PC BD BLK NYL .062–IN–BD–THKNS	02123	91–2–BLACK–5
A9MP3	0403–0626	1	EXTR–PC BD WHT NYL .062–IN–BD–THKNS	02123	91–2–WHITE–0
A9P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A9P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A9Q2	1854–0457	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD485
A9Q3	1853–0075	1	TRANSISTOR–DUAL PNP PD=400MW	02037	
A9Q4	1853–0269	1	TRANSISTOR–DUAL PNP 2N3809 TO–78	02037	2N3809
A9Q5	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q6	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q7	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q8	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q9	1853–0405	1	TRANSISTOR PNP SI PD=360MW FT=850MHZ	02037	2N4209
A9Q10	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q11	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q12	1854–1028	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904
A9Q13	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q14	1854–1028	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904
A9Q15	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q16	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9Q17	1853–0563	1	TRANSISTOR PNP SI TO–92 PD=625MW	02037	2N3906(SEL)
A9R1	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R2	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R3	0698–3620	1	RESISTOR 100 ±5% 2W MO TC=0±200	02499	GS–3
A9R4	0698–3620	1	RESISTOR 100 ±5% 2W MO TC=0±200	02499	GS–3
A9R5	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R6	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R7	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R8	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R9	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R10	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R11	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R12	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R13	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R14	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R15	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R16	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R17	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R18	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R19	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R20	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R21	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R22	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R23	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R24	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60232 (4 of 6)

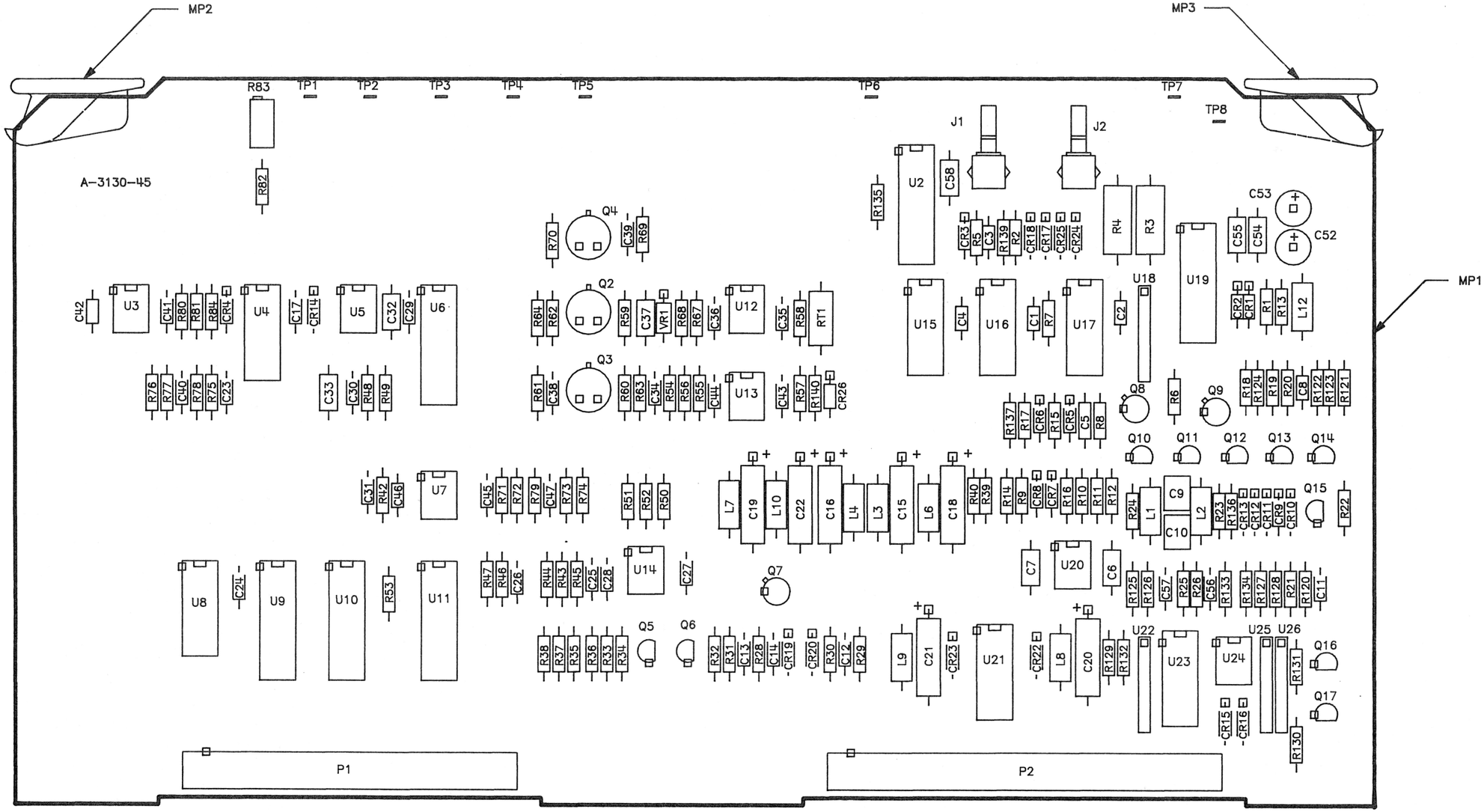
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9R25	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R26	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R28	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R29	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R30	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R31	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R32	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R33	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R34	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R35	0698–3445	1	RESISTOR 348 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R36	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R37	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R38	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R39	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R40	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R42	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R43	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R44	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R45	0757–0447	1	RESISTOR 16.2K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R46	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R47	0757–0447	1	RESISTOR 16.2K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R48	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R49	0757–0317	1	RESISTOR 1.33K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R50	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R51	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R52	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R53	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R54	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R55	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R56	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R57	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A9R58	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A9R59	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R60	0757–0439	1	RESISTOR 6.81K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R61	0698–3161	1	RESISTOR 38.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R62	0698–3439	1	RESISTOR 178 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R63	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R64	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R67	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R68	0757–0288	1	RESISTOR 9.09K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R69	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R70	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R71	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R72	0698–6627	1	RESISTOR 25K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A9R73	0698–6348	1	RESISTOR 3K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A9R74	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60232 (5 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9R75	0698–3151	1	RESISTOR 2.87K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R76	0698–6348	1	RESISTOR 3K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A9R77	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R78	0698–6620	1	RESISTOR 150K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A9R79	0698–6348	1	RESISTOR 3K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A9R80	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R81	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R82	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R83	2100–3732	1	RESISTOR–TRMR 500 10% TKF SIDE–ADJ	04568	67XR
A9R84	0698–3443	1	RESISTOR 287 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R120	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R121	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R122	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R123	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R124	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R125	0757–0461	1	RESISTOR 68.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R126	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R127	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R128	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R129	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R130	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R131	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R132	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R133	0757–0461	1	RESISTOR 68.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R134	0698–3452	1	RESISTOR 147K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R135	8159–0005	1	RESISTOR 0 CWM	01339	L–2007–1
A9R136	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R137	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R139	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9R140	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A9RT1	0811–3575	1	RESISTOR 3K ±2% .125W PN TC=+5600±300	01854	R3118
A9TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A9TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A9U2	1820–3443	1	IC DRVR TTL/AS AND HEX 2–INP	01698	SN74AS808BN
A9U3	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U4	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A9U5	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U6	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A9U7	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN

Replaceable Parts List for A9 Pulse Assembly, Part Number 08360–60232 (6 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A9U8	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A9U9	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A9U10	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A9U11	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A9U12	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U13	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27GZ
A9U14	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A9U15	1820–2739	1	IC GATE TTL/ALS NOR QUAD 2–INP	01698	SN74ALS02N
A9U16	1820–2774	1	IC GATE TTL/ALS NAND DUAL 4–INP	01698	SN74ALS20AN
A9U17	1820–2775	1	IC GATE TTL/ALS NAND TPL 3–INP	01698	SN74ALS10AN
A9U18	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A9U19	1820–2557	1	IC DRVR TTL/AS NAND HEX 2–INP	01698	SN74AS804BN
A9U20	1826–1844	1	IC OP AMP HS 8 PIN DIP–C	02180	OP–42FZ
A9U21	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A9U22	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A9U23	1858–0116	1	TRANSISTOR ARRAY 14–PIN PLSTC TO–116	02883	VQ1001J
A9U24	1826–0412	1	IC COMPARATOR PRCN DUAL 8 PIN DIP–P	03406	LM393N
A9U25	1810–0347	1	NETWORK–RES 8–SIP 2.2K OHM X 4	02483	750–83–R2.2K
A9U26	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A9VR1	1902–0551	1	DIODE–ZNR 6.2V 5% PD=1W IR=10UA	02037	SZ40145–8RL



NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

A9 Pulse
08360-60232

Ⓐ PULSE INPUT

PULSE IN/OUT J2
L PLS EN (U4-2)
+5.2VF1
C4 0.01
R2 51.1
U15A 74AS02
CR18 CR17
+5.2VA
L12 9.6
CS2 100 CS3 100 CS4 0.1 CS5 0.1
+5.2VAF
R1 511
CR1
U19A
R3 100
+5.2VF1
U18B 10K
U19C U19F 74ASB04B
R13 511
CR24
R4 100
INT PULSE P1(1)
H INT PLS EN
CR25

Ⓒ PULSE MODULATOR CONTROL GATING

H OP 006 EN (U4-16)
U19B U19D U16B
U2A
R135 0 (JUMPER)
J1 OPT. 006 MODULATOR
H BIAS TRACK N.C.
+5.2VF1
C1 0.01
R139 4.22K
U16A 74ALS20
H=RF OFF OR SLOW PLS L=RF ON
CR3
R5 316
U19C U15D
C3 47p
U15B N.C. U15C
C2 0.01
U17A U18A 10K
H=RF OFF OR FAST PLS L=RF ON
(BLK D) H SLOW
P1(25) L RF OFF
+1SVF1
U18C 10K
D9 3-405
R7 1K
U17B U17C U18D 10K
P1(50) L OPEN LOOP
H=INTEGRATE L=HOLD
H I/H ENABLE (BLK D)
R6 5.11K

U2B U2E U2C U2F U2D N.C.

SLOW RISE 27KHz WAVEFORM
+2V 0V -0.5V -2V
U15 PIN 6 WAVEFORM, SCALAR PULSE MODE

Ⓔ SLOW RISE PULSE

+5.2VF1
R8 21.3K
SLOW SYM R10 5.11K
R11 14.7K R12 511
C5 1000p
CR5 CR6 CR7 CR8
R15 1K
R16 316
D8 3-405
-15VF1
+15VF1
R14 12.1K
U20 OP-42
C5 0.1 C7 0.1
R9 147K
R17 1K SLO DRV
R137 4.22K

Ⓕ FAST PULSE

+15VF1 +5.2VF1
R10 1.1K R124 1.1K
R19 422 C8 0.01
Q10 Q11 3-563
R20 422
R120 750 CR13
L1 4.7 C9 1.0
PULSE RET P2(28) P2(58)
Q12 4-028
CR12
R23 51.1
CR9 CR10 CR11
R21 100
R136 51.1
Q13 3-563
Q15 Q14 4-028
R122 261
R121 750 R123 261 R22 261
C10 1.0 L2 4.7
C11 0.01
R24 10

Ⓚ MOD SELECT

+1.5VF1 +5.2VF1
L LOBAND (SHEET 2 BLK N)
P1(49)
U24A LM393
CR15
R25 1K
R127 100K R128 100K Q16 3-563
TP7 HI PLS OUT
HI PLS OUT
U22B 10K U22A 10K C57 0.01
R125 68.1K R126 147K
U25A 2.2K U25B 2.2K U26A 10K U26B 10K
U23A U23B 74C 0-116
R129 100K
P2(30) MOD/SPLITTER PULSE MODULATOR
U24B LM393
CR16
R26 1K
R130 100K R131 100K Q17 3-563
TP8 L PLS OUT
LO PLS OUT
U22C 10K U22D 10K C56 0.01
R133 68.1K R134 147K
U25C 2.2K U25D 2.2K U26C 10K U26D 10K
U23C U23D 74C 0-116
R132 100K
P2(60) LOBAND PULSE MODULATOR

Ⓑ POWER SUPPLIES

+15V P2(8) P2(9) P2(38) P2(39)
L3 15 C15 6.8 +15VF1
L4 15 C16 6.8 +15VF2
-15V P2(11) P2(12) P2(41) P2(42)
L9 15 C21 6.8 -15VF1
L10 15 C22 6.8 -15VF2
+5.2V P2(18) P2(49)
L6 15 C18 22 +5.2VF1
R39 3.48K +1.5VF1
R40 1.47K
L7 15 C19 22 +5.2VF2
-5.2V P2(16) P2(17)
L8 15 C20 22 -5.2VF
GND P1(3) P1(8) P1(13) P1(14) P1(19) P1(22) P1(28) P1(33) P1(38) P1(39) P1(44) P1(47)
GND P2(7) P2(10) P2(13) P2(15) P2(18) P2(37) P2(40) P2(43) P2(45) P2(48)
TP6 TP4

Ⓓ DIGITAL INTERFACE

+5.2VF1
U8 HC138
A3 A2 A1 A0 G1 G2A G2B DMUX
L STRB 3
P1(30) P1(6) P1(31) P1(7) P1(26)
END GATE BIAS CLAMP DACA
P1(8) P1(34) P1(10) P1(35) P1(11) P1(36) P1(12) P1(37)
OB0 OB1 OB2 OB3 OB4 OB5 OB6 OB7
U9 HC273
L PLS EN (BLK A)
H INT PLS EN (BLK A)
H SLOW (BLK C)
H OP 006 EN
L B1 (SHEET 2 BLK N)
L B2-4
H I/H ENABLE (BLK C)
N.C.
P1(43) H+5VUP
U10 HC273
N.C.
DATA BUS

Ⓗ ANALOG BUS

+15VF1
CR22
U41 MUX
(SHT1 BLK K) HI PLS OUT
(SHT1 BLK E) SLO DRV
(SHT1 BLK J) I/H
(SHT2 BLK N) GATE
(SHT2 BLK L) CLAMP
N.C.
(SHT2 BLK N) SOURCE
LO PLS OUT
D0508
ABUS 4 P2(23)
CR23
-15VF1

Ⓙ INTEGRATE & HOLD DELAY

+5.2VF1
C14 0.01
R28 1.21K
Q7 3-405
+15VF1
R32 3.48K
CR19 CR20
R31 51.1
Q6 Q5 3-563
R35 348
C12 0.01 C13 100p
R36 750 R37 1.1K
P1(48) TO ALC BOARD
P1(24)
R29 10D R30 10K
R33 261 R24 261 R38 10K
-5.2VF -15VF1 -15VF1 -15VF1 I/H

DATA BUS TO SHEET 2

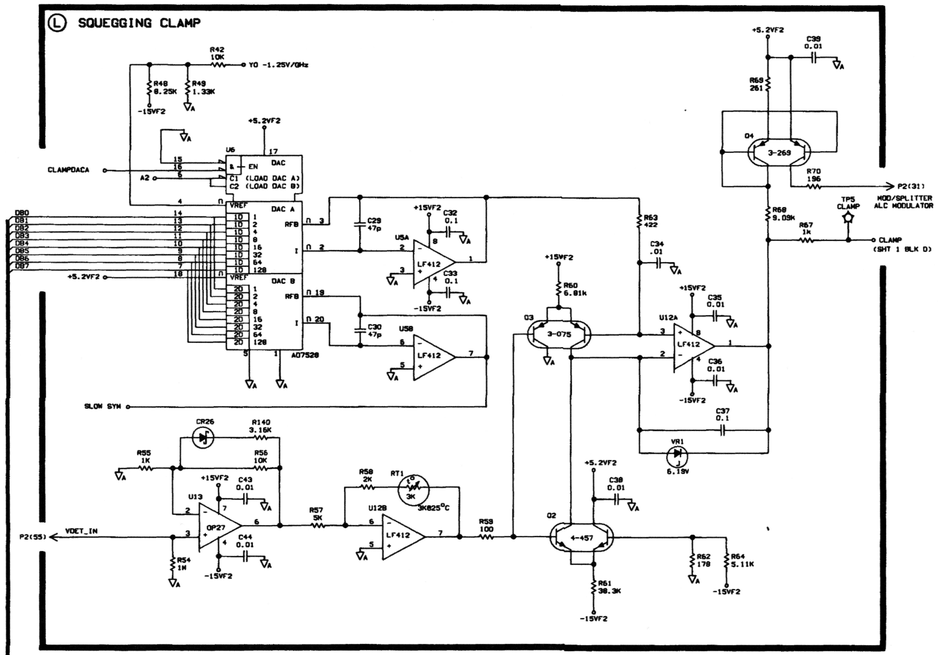
A9 Pulse
08360-60232
(SHEET 1 of 2)

NOTES: UNLESS OTHERWISE SPECIFIED.

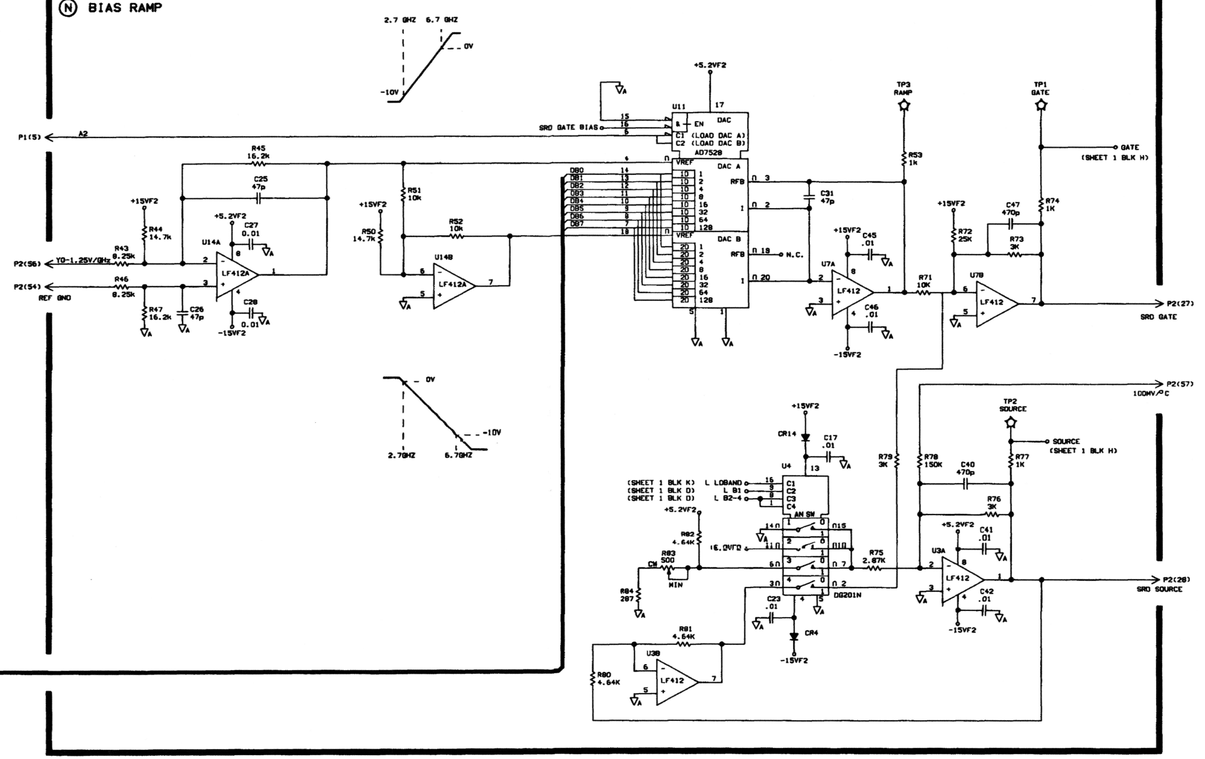
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
C58	C48-51
CR26	CR21
J2	
L12	L5,11
P2	
Q17	Q1
R140	R27,41,65,66, R85-119,138
RT1	
TP8	
U26	U1
VR1	

(L) SQUEGGING CLAMP



(N) BIAS RAMP



DATA BUS

FROM SHEET 1

A9 Pulse
08360-60232
(SHEET 2 of 2)

Schematic Package for 08360-60206 A10 ALC

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Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60206 (1 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10	08360–60206	1	BOARD ASSY–ALC	28480	08360–60206
A10C1	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A10C2	0160–0161	1	CAP–FXD 0.01uF ±10% 200 V POLYE–FL	05176	HEW238T
A10C3	0160–6268	1	CAP–FXD 1000pF ±1% 50 V CER C0G	02010	SA105A102FAAH
A10C4	0160–6268	1	CAP–FXD 1000pF ±1% 50 V CER C0G	02010	SA105A102FAAH
A10C5	0160–0161	1	CAP–FXD 0.01uF ±10% 200 V POLYE–FL	05176	HEW238T
A10C6	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C7	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C8	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	02010	SA102A100JAAH
A10C9	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C10	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C11	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C12	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C13	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	02010	SA102A100JAAH
A10C14	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C15	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C16	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C17	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C18	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C19	0160–3335	1	CAP–FXD 470pF ±10% 100 V CER X7R	02010	SA102C471KAAH
A10C20	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C21	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A10C22	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C23	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A10C24	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C25	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C26	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C27	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A10C28	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C29	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C30	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C31	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C32	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C33	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C34	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C35	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C36	0160–5098	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	02010	SA405C224KAAH
A10C37	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A10C38	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C39	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C40	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C41	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C42	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A10C43	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A10C44	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C45	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	02010	SA102A100JAAH

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60206 (2 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10C46	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A10C47	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A10C48	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C49	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C50	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A10C51	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A10C52	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C53	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C54	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C55	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C56	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C57	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C58	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C59	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C60	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C61	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C62	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C63	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C64	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C65	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C66	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C67	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C68	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A10C69	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A10C70	0180–3849	1	CAP–FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A10C71	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A10C72	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A10C73	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A10C74	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C75	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C76	0160–4788	1	CAP–FXD 18pF ±5% 100 V CER C0G	02010	SA102A180JAAH
A10C77	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C78	0180–3849	1	CAP–FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A10C79	0180–3849	1	CAP–FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A10CR1	1901–0880	1	DIODE–GEN PRP 200MA DO–35	03406	FDH5323.03
A10CR2	1901–0880	1	DIODE–GEN PRP 200MA DO–35	03406	FDH5323.03
A10CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR4	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60206 (3 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR13	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR14	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR15	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR16	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR17	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR18	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR19	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR20	1901–0880	1	DIODE–GEN PRP 200MA DO–35	03406	FDH5323.03
A10CR21	1901–0880	1	DIODE–GEN PRP 200MA DO–35	03406	FDH5323.03
A10CR22	1901–0880	1	DIODE–GEN PRP 200MA DO–35	03406	FDH5323.03
A10CR23	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR24	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR25	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR26	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR27	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR28	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR29	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR30	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR31	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J2	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J3	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J4	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J5	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J6	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J7	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10L1	9140–1359	1	INDUCTOR 10MH ±2% .685D–IN	05524	ITP–1331–96
A10L2	9140–1359	1	INDUCTOR 10MH ±2% .685D–IN	05524	ITP–1331–96
A10L3	9100–3560	1	INDUCTOR RF–CH–MLD 5.6UH ±5%	03273	15M561J
A10L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A10L5	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A10L6	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A10L7	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A10MP2	0403–0621	1	EXTR–PC BD BLK NYL .062–IN–BD–THKNS	02123	91–2–BLACK–5
A10MP3	0403–0630	1	EXTR–PC BD BRN NYL .062–IN–BD–THKNS	02123	91–2–BROWN–9
A10MP4	08360–40008	1			
A10MP5	0624–0518	2	SCREW–TPG 6–19 .25–IN–LG PAN–HD–TORX T15	05610	
A10P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A10P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A10Q1	1854–1109	1	TRANSISTOR–DUAL NPN TO–78 PD=500MW	02180	MAT–02FH
A10Q2	1854–0907	1	TRANSISTOR NPN 2N2484 TO–18 PD=360MW	02037	
A10Q3	1853–0388	1	TRANSISTOR–DUAL PNP TO–78 PD=600MW	02037	
A10Q4	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A10Q5	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A10Q6	1855–0278	1	TRANSISTOR J–FET 2N5116 P–CHAN D–MODE	03406	2N5116

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60206 (4 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10Q5	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A10Q6	1855–0278	1	TRANSISTOR J–FET 2N5116 P–CHAN D–MODE	03406	2N5116
A10Q7	1855–0232	1	TRANSISTOR–JFET DUAL 2N5565 N–CHAN	02883	2N5565
A10Q8	1853–0388	1	TRANSISTOR–DUAL PNP TO–78 PD=600MW	02037	
A10Q9	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A10Q10	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A10Q11	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A10Q12	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q13	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q14	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q15	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q16	1854–0457	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD485
A10Q17	1853–0388	1	TRANSISTOR–DUAL PNP TO–78 PD=600MW	02037	
A10Q18	1853–0451	1	TRANSISTOR PNP 2N3799 SI TO–18 PD=360MW	02037	
A10Q19	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A10Q20	1854–0457	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD485
A10Q21	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A10Q22	1854–0457	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD485
A10Q23	1853–0075	1	TRANSISTOR–DUAL PNP PD=400MW	02037	
A10Q24	1854–1109	1	TRANSISTOR–DUAL NPN TO–78 PD=500MW	02180	MAT–02FH
A10Q25	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q26	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q27	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A10R1	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R2	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R3	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R4	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R5	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R6	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R7	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R8	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R9	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R10	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R11	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R12	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R13	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R14	0757–0419	1	RESISTOR 681 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R15	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R16	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R17	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R18	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R19	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R20	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R21	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R22	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60206 (5 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10R23	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R24	0757–0419	1	RESISTOR 681 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R25	0698–3443	1	RESISTOR 287 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R26	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R27	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R28	0698–3158	1	RESISTOR 23.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R29	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R30	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R31	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R32	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R33	0698–3620	1	RESISTOR 100 ±5% 2W MO TC=0±200	02499	GS–3
A10R34	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R35	2100–3350	1	RESISTOR–TRMR 200 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–201
A10R36	0757–0398	1	RESISTOR 75 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R37	0698–6364	1	RESISTOR 50 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R38	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R39	2100–3352	1	RESISTOR–TRMR 1K 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–102
A10R40	0698–8607	1	RESISTOR 4.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1
A10R41	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R42	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R43	0698–3620	1	RESISTOR 100 ±5% 2W MO TC=0±200	02499	GS–3
A10R44	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R45	0698–6614	1	RESISTOR 7.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R46	0698–6614	1	RESISTOR 7.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R47	0757–0418	1	RESISTOR 619 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R48	0698–3442	1	RESISTOR 237 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R49	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R50	0698–6614	1	RESISTOR 7.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R51	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R52	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R53	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R54	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R55	2100–3351	1	RESISTOR–TRMR 500 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–501
A10R56	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R57	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R58	0698–6977	1	RESISTOR 30K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R59	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R60	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R61	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R62	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R63	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R64	0698–3446	1	RESISTOR 383 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R65	0757–0398	1	RESISTOR 75 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R66	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R67	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60206 (6 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10R68	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R69	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R70	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R71	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R72	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R73	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R74	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R75	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R76	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R77	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R78	0698–6977	1	RESISTOR 30K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R79	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R80	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R81	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R82	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R83	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R84	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R85	0698–3153	1	RESISTOR 3.83K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R86	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R87	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R88	0698–3434	1	RESISTOR 34.8 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R89	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R90	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R91	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R92	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R93	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R94	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R95	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R96	0698–6376	1	RESISTOR 200K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R97	0698–3158	1	RESISTOR 23.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R98	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R99	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R100	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R101	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R102	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R103	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R104	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R105	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R106	0698–6358	1	RESISTOR 100K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R107	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R108	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R109	0699–2456	1	RESISTOR 1K ±0.01% .1W TF TC=0±5	06337	5023Z
A10R110	0699–2456	1	RESISTOR 1K ±0.01% .1W TF TC=0±5	06337	5023Z
A10R111	0699–2455	1	RESISTOR 9K ±0.01% .1W TF TC=0±5	06337	5023Z
A10R112	0757–0460	1	RESISTOR 61.9K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60206 (7 of 9)

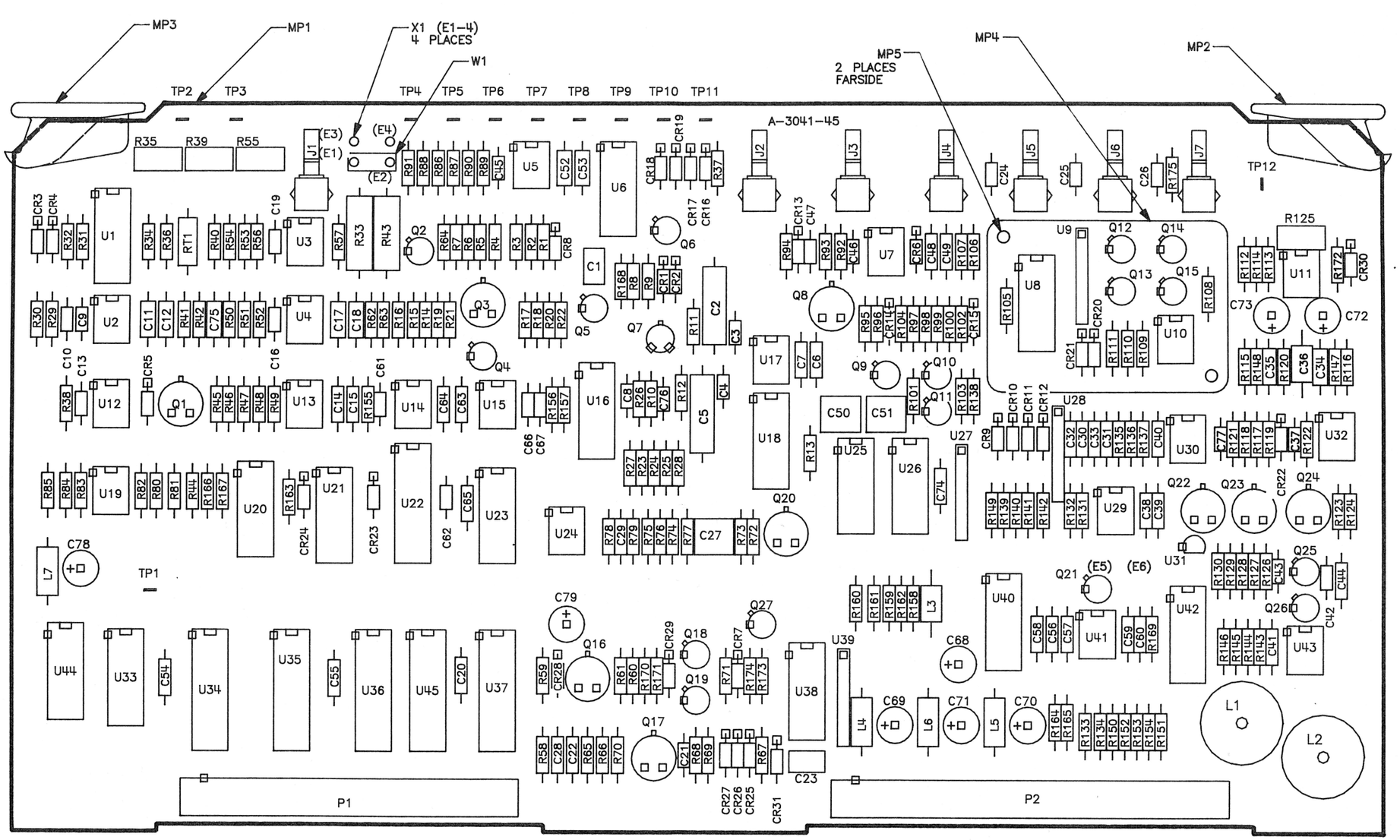
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10R113	0698–6965	1	RESISTOR 505 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R114	0698–8607	1	RESISTOR 4.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1
A10R115	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R116	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R117	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R118	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R119	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R120	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R121	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R122	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R123	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R124	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R125	2100–3274	1	RESISTOR–TRMR 10K 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–103
A10R126	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R127	0698–3429	1	RESISTOR 19.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R128	0698–3446	1	RESISTOR 383 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R129	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R130	0757–0459	1	RESISTOR 56.2K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R131	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R132	0698–6782	1	RESISTOR 250 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R133	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R134	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R135	0757–0459	1	RESISTOR 56.2K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R136	0698–6353	1	RESISTOR 50K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R137	0698–6358	1	RESISTOR 100K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R138	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R139	0698–3459	1	RESISTOR 383K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R140	0698–3459	1	RESISTOR 383K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R141	0698–3459	1	RESISTOR 383K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R142	0698–3459	1	RESISTOR 383K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R143	0757–0458	1	RESISTOR 51.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R144	0757–0460	1	RESISTOR 61.9K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R145	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R146	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R147	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R148	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R149	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R150	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R151	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R152	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R153	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R154	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R155	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R156	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R157	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60206 (8 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10R158	0698–6977	1	RESISTOR 30K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R159	0698–6343	1	RESISTOR 9K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R160	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R161	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R162	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R163	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R164	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R165	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R166	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R167	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R168	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R169	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R170	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R171	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R172	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R173	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R174	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R175	0757–0459	1	RESISTOR 56.2K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10RT1	0837–0342	1	THERMISTOR TUB WITH AXL LEADS 100–OHM	06784	1K101J
A10TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP11	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP12	1460–2201	1	SPRING RADIAL TEST POINT		
A10U1	1826–1824	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG411DJ
A10U2	1826–0932	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27FZ
A10U3	1826–0932	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27FZ
A10U4	1826–0932	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27FZ
A10U5	1826–1367	1	IC OP AMP LOW–BIAS–H–IMPD 8 PIN DIP–C	02180	OP–16FZ
A10U6	1826–1824	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG411DJ
A10U7	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A10U8	1858–0116	1	TRANSISTOR ARRAY 14–PIN PLSTC TO–116	02883	VQ1001J
A10U9	1810–0444	1	NETWORK–RES 8–SIP 100.0K OHM X 4	05524	MSP08A03–104G
A10U10	1826–1719	1	IC OP AMP PRCN 8 PIN CBRZ	02180	OP–77E SELECTED
A10U11	1826–2241	1	IC OP AMP H–SLEW–RATE SINGLE 8 PIN DIP–P	03285	AD843KN
A10U12	1826–0932	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27FZ
A10U13	1826–0987	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–37FZ
A10U14	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60206 (9 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10U15	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A10U16	1858–0077	1	TRANSISTOR ARRAY 14–PIN PLSTC TO–116	02037	MPQ2222P
A10U17	1826–1367	1	IC OP AMP LOW–BIAS–H–IMPD 8 PIN DIP–C	02180	OP–16FZ
A10U18	1826–1900	1	ANALOG SWITCH 4 SPST 16 –DIP–P		
A10U19	1826–0412	1	IC COMPARATOR PRCN DUAL 8 PIN DIP–P	03406	LM393N
A10U20	1820–2923	1	IC GATE CMOS/HC NAND TPL 3–INP	02037	MC74HC10N
A10U21	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A10U22	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A10U23	1826–0639	1	D/A 8–BIT 16–PLASTIC CMOS	03285	AD7524JN
A10U24	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A10U25	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A10U26	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A10U27	1810–0444	1	NETWORK–RES 8–SIP 100.0K OHM X 4	05524	MSP08A03–104G
A10U28	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A10U29	1826–0987	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–37FZ
A10U30	1826–0932	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27FZ
A10U31	1826–1362	1	IC TEMP XDCR 3 PIN TO–92	03285	AD592AN
A10U32	1826–1857	1	IC OP AMP HS 8 PIN DIP–P	03406	LM6361N SELECTED
A10U33	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A10U34	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A10U35	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A10U36	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A10U37	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A10U38	1855–0591	1	TRANSISTOR ARRAY 14–PIN PLSTC DIP	02883	VQ1000J
A10U39	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A10U40	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A10U41	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A10U42	1855–0591	1	TRANSISTOR ARRAY 14–PIN PLSTC DIP	02883	VQ1000J
A10U43	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A10U44	1820–2922	1	IC GATE CMOS/HC NAND QUAD 2–INP	02037	MC74HC00N
A10U45	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A10W1	1258–0124	1	SHUNT–PROGRAMMABLE 1 DBL PIN SET; .100	05518	8136–475G1
A10X1	1251–2194	4	CONNECTOR–SGL CONT SKT .021–IN–BSC–SZ	01380	3–331272–0

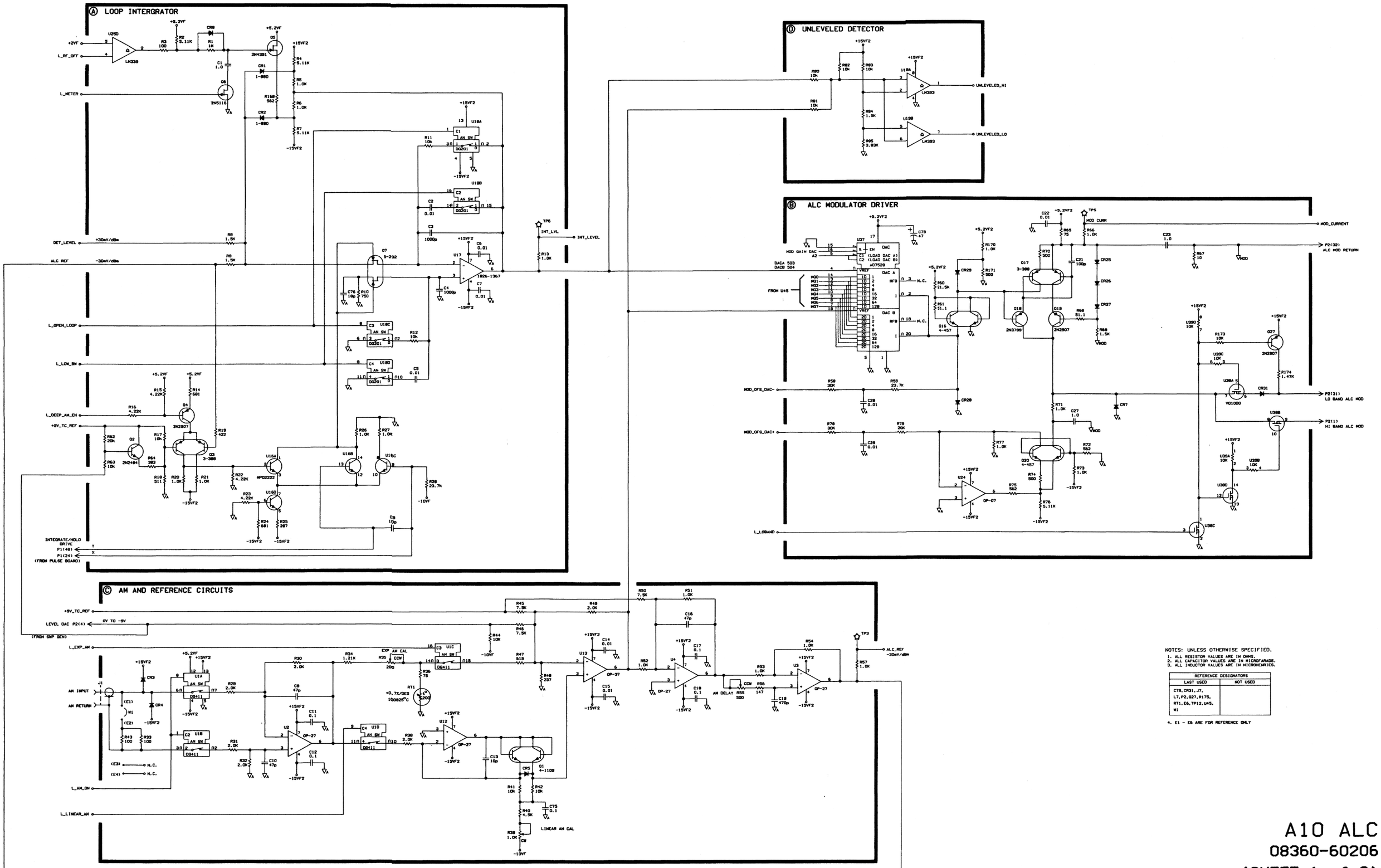


NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

A10 ALC

08360-60206



NOTES: UNLESS OTHERWISE SPECIFIED.

1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
C79,CR31,J7, L7,P2,Q27,R175, RT1,E6,TP12,U45, W1	

4. E1 - E6 ARE FOR REFERENCE ONLY

A10 ALC
08360-60206
(SHEET 1 of 2)

E POWER METER LOG AMPLIFIER

S .365

H LEVELING MODE MULTIPLEXER

K DETECTOR MULTIPLEXER

J DETECTOR LOG AMPLIFIER

SHIELD BOX

A10 ALC
08360-60206
(SHEET 2 of 2)

Schematic Package for 08360-60222 A10 ALC

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HEWLETT PACKARD

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60222 (1 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10	08360–60222	1	BOARD ASSY–ALC	28480	08360–60222
A10C1	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A10C2	0160–0161	1	CAP–FXD 0.01uF ±10% 200 V POLYE–FL	05176	HEW238T
A10C3	0160–6268	1	CAP–FXD 1000pF ±1% 50 V CER C0G	02010	SA105A102FAAH
A10C4	0160–6268	1	CAP–FXD 1000pF ±1% 50 V CER C0G	02010	SA105A102FAAH
A10C5	0160–0161	1	CAP–FXD 0.01uF ±10% 200 V POLYE–FL	05176	HEW238T
A10C6	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C7	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C8	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	02010	SA102A100JAAH
A10C9	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C10	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C11	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C12	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C13	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	02010	SA102A100JAAH
A10C14	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C15	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C16	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C17	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C18	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C19	0160–3335	1	CAP–FXD 470pF ±10% 100 V CER X7R	02010	SA102C471KAAH
A10C20	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C21	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A10C22	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C23	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A10C24	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C25	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C26	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C27	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A10C28	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C29	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C30	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C31	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C32	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C33	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C34	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C35	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C36	0160–5098	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	02010	SA405C224KAAH
A10C37	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A10C38	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C39	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C40	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C41	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C42	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A10C43	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A10C44	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60222 (2 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10C45	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	02010	SA102A100JAAH
A10C46	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A10C47	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A10C48	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C49	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C50	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A10C51	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A10C52	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C53	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C54	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C55	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C56	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C57	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C58	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C59	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C60	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C61	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C62	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C63	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C64	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C65	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C66	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C67	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C68	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A10C69	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A10C70	0180–3849	1	CAP–FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A10C71	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A10C72	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A10C73	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A10C74	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C75	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C76	0160–4788	1	CAP–FXD 18pF ±5% 100 V CER C0G	02010	SA102A180JAAH
A10C77	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C78	0180–3849	1	CAP–FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A10C79	0180–3849	1	CAP–FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A10CR1	1901–0880	1	DIODE–GEN PRP 200MA DO–35	03406	FDH5323.03
A10CR2	1901–0880	1	DIODE–GEN PRP 200MA DO–35	03406	FDH5323.03
A10CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR4	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60222 (3 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR13	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR14	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR15	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR16	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR17	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR18	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR19	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR20	1901–0880	1	DIODE–GEN PRP 200MA DO–35	03406	FDH5323.03
A10CR21	1901–0880	1	DIODE–GEN PRP 200MA DO–35	03406	FDH5323.03
A10CR22	1901–0880	1	DIODE–GEN PRP 200MA DO–35	03406	FDH5323.03
A10CR23	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR24	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR25	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR26	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR27	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR28	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR29	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR30	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR31	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J2	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J3	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J4	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J5	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J6	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J7	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10L1	9140–1359	1	INDUCTOR 10MH ±2% .685D–IN	05524	ITP–1331–96
A10L2	9140–1359	1	INDUCTOR 10MH ±2% .685D–IN	05524	ITP–1331–96
A10L3	9100–3560	1	INDUCTOR RF–CH–MLD 5.6UH ±5%	03273	15M561J
A10L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A10L5	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A10L6	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A10L7	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A10MP2	0403–0621	1	EXTR–PC BD BLK NYL .062–IN–BD–THKNS	02123	91–2–BLACK–5
A10MP3	0403–0630	1	EXTR–PC BD BRN NYL .062–IN–BD–THKNS	02123	91–2–BROWN–9
A10MP4	08360–40008	1			
A10MP5	0624–0518	2	SCREW–TPG 6–19 .25–IN–LG PAN–HD–TORX T15	05610	
A10P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A10P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A10Q1	1854–1109	1	TRANSISTOR–DUAL NPN TO–78 PD=500MW	02180	MAT–02FH
A10Q2	1854–0907	1	TRANSISTOR NPN 2N2484 TO–18 PD=360MW	02037	
A10Q3	1853–0388	1	TRANSISTOR–DUAL PNP TO–78 PD=600MW	02037	
A10Q4	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60222 (4 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10Q4	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A10Q5	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A10Q6	1855–0278	1	TRANSISTOR J–FET 2N5116 P–CHAN D–MODE	03406	2N5116
A10Q7	1855–0232	1	TRANSISTOR–JFET DUAL 2N5565 N–CHAN	02883	2N5565
A10Q8	1853–0388	1	TRANSISTOR–DUAL PNP TO–78 PD=600MW	02037	
A10Q9	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A10Q10	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A10Q11	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A10Q12	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q13	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q14	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q15	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q16	1854–0457	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD485
A10Q17	1853–0388	1	TRANSISTOR–DUAL PNP TO–78 PD=600MW	02037	
A10Q18	1853–0451	1	TRANSISTOR PNP 2N3799 SI TO–18 PD=360MW	02037	
A10Q19	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A10Q20	1854–0457	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD485
A10Q21	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A10Q22	1854–0457	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD485
A10Q23	1853–0075	1	TRANSISTOR–DUAL PNP PD=400MW	02037	
A10Q24	1854–1109	1	TRANSISTOR–DUAL NPN TO–78 PD=500MW	02180	MAT–02FH
A10Q25	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q26	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q27	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A10R1	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R2	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R3	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R4	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R5	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R6	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R7	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R8	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R9	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R10	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R11	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R12	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R13	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R14	0757–0419	1	RESISTOR 681 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R15	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R16	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R17	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R18	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R19	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R20	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R21	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60222 (5 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10R22	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R23	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R24	0757–0419	1	RESISTOR 681 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R25	0698–3443	1	RESISTOR 287 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R26	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R27	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R28	0698–3158	1	RESISTOR 23.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R29	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R30	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R31	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R32	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R33	0698–3620	1	RESISTOR 100 ±5% 2W MO TC=0±200	02499	GS–3
A10R34	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R35	2100–3350	1	RESISTOR–TRMR 200 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–201
A10R36	0757–0398	1	RESISTOR 75 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R37	0698–6364	1	RESISTOR 50 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R38	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R39	2100–3352	1	RESISTOR–TRMR 1K 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–102
A10R40	0698–8607	1	RESISTOR 4.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1
A10R41	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R42	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R43	0698–3620	1	RESISTOR 100 ±5% 2W MO TC=0±200	02499	GS–3
A10R44	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R45	0698–6614	1	RESISTOR 7.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R46	0698–6614	1	RESISTOR 7.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R47	0757–0418	1	RESISTOR 619 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R48	0698–3442	1	RESISTOR 237 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R49	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R50	0698–6614	1	RESISTOR 7.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R51	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R52	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R53	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R54	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R55	2100–3351	1	RESISTOR–TRMR 500 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–501
A10R56	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R57	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R58	0698–6977	1	RESISTOR 30K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R59	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R60	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R61	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R62	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R63	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R64	0698–3446	1	RESISTOR 383 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R65	0757–0398	1	RESISTOR 75 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R66	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60222 (6 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10R67	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R68	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R69	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R70	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R71	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R72	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R73	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R74	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R75	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R76	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R77	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R78	0698–6977	1	RESISTOR 30K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R79	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R80	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R81	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R82	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R83	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R84	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R85	0698–3153	1	RESISTOR 3.83K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R86	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R87	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R88	0698–3434	1	RESISTOR 34.8 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R89	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R90	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R91	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R92	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R93	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R94	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R95	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R96	0698–6376	1	RESISTOR 200K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R97	0698–3158	1	RESISTOR 23.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R98	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R99	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R100	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R101	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R102	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R103	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R104	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R105	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R106	0698–6358	1	RESISTOR 100K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R107	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R108	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R109	0699–2456	1	RESISTOR 1K ±0.01% .1W TF TC=0±5	06337	5023Z
A10R110	0699–2456	1	RESISTOR 1K ±0.01% .1W TF TC=0±5	06337	5023Z
A10R111	0699–2455	1	RESISTOR 9K ±0.01% .1W TF TC=0±5	06337	5023Z

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60222 (7 of 9)

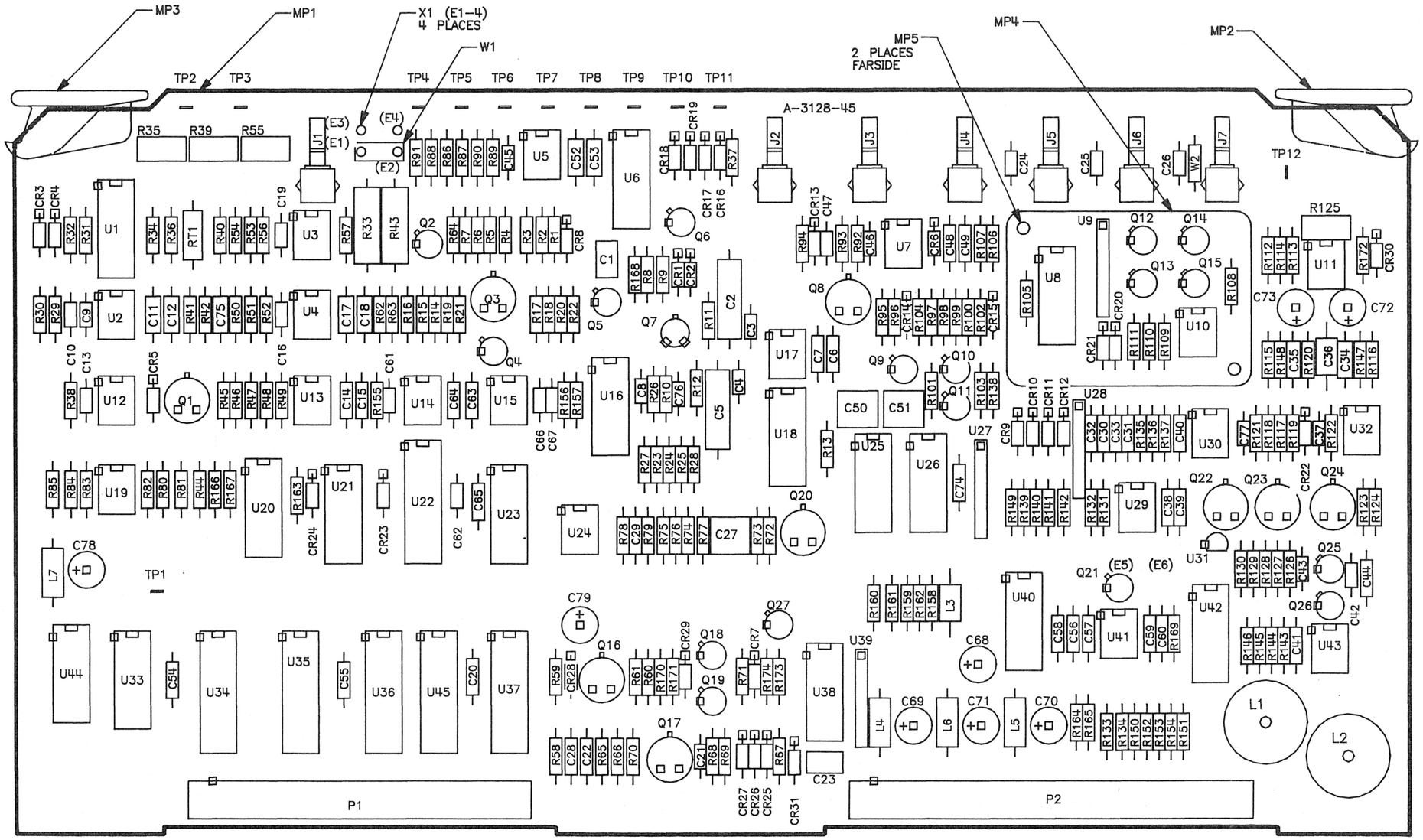
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10R112	0757–0460	1	RESISTOR 61.9K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R113	0698–6965	1	RESISTOR 505 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R114	0698–8607	1	RESISTOR 4.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1
A10R115	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R116	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R117	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R118	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R119	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R120	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R121	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R122	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R123	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R124	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R125	2100–3274	1	RESISTOR–TRMR 10K 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–103
A10R126	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R127	0698–3429	1	RESISTOR 19.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R128	0698–3446	1	RESISTOR 383 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R129	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R130	0757–0459	1	RESISTOR 56.2K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R131	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R132	0698–6782	1	RESISTOR 250 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R133	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R134	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R135	0757–0459	1	RESISTOR 56.2K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R136	0698–6353	1	RESISTOR 50K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R137	0698–6358	1	RESISTOR 100K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R138	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R139	0698–3459	1	RESISTOR 383K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R140	0698–3459	1	RESISTOR 383K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R141	0698–3459	1	RESISTOR 383K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R142	0698–3459	1	RESISTOR 383K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R143	0757–0458	1	RESISTOR 51.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R144	0757–0460	1	RESISTOR 61.9K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R145	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R146	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R147	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R148	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R149	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R150	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R151	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R152	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R153	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R154	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R155	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R156	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60222 (8 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10R157	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R158	0698–6977	1	RESISTOR 30K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R159	0698–6343	1	RESISTOR 9K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R160	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R161	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R162	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R163	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R164	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R165	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R166	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R167	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R168	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R169	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R170	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R171	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R172	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R173	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R174	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10RT1	0837–0342	1	THERMISTOR TUB WITH AXL LEADS 100–OHM	06784	1K101J
A10TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP11	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP12	1460–2201	1	SPRING RADIAL TEST POINT		
A10U1	1826–1824	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG411DJ
A10U2	1826–0932	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27FZ
A10U3	1826–0932	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27FZ
A10U4	1826–0932	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27FZ
A10U5	1826–1367	1	IC OP AMP LOW–BIAS–H–IMPD 8 PIN DIP–C	02180	OP–16FZ
A10U6	1826–1824	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG411DJ
A10U7	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A10U8	1858–0116	1	TRANSISTOR ARRAY 14–PIN PLSTC TO–116	02883	VQ1001J
A10U9	1810–0444	1	NETWORK–RES 8–SIP 100.0K OHM X 4	05524	MSP08A03–104G
A10U10	1826–1719	1	IC OP AMP PRCN 8 PIN CBRZ	02180	OP–77E SELECTED
A10U11	1826–2241	1	IC OP AMP H–SLEW–RATE SINGLE 8 PIN DIP–P	03285	AD843KN
A10U12	1826–0932	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27FZ
A10U13	1826–0987	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–37FZ
A10U14	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60222 (9 of 9)

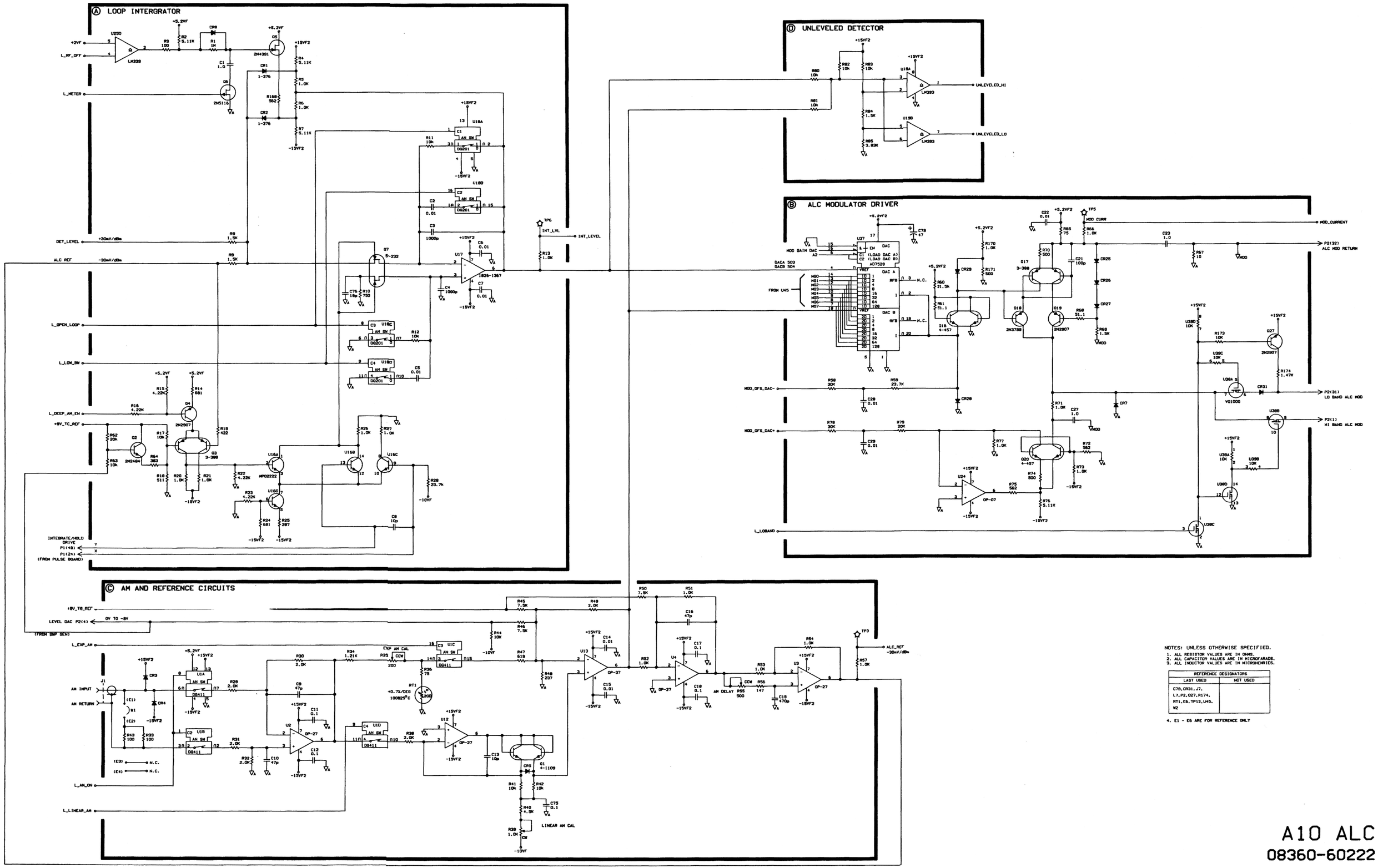
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10U15	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A10U16	1858–0077	1	TRANSISTOR ARRAY 14–PIN PLSTC TO–116	02037	MPQ2222P
A10U17	1826–1367	1	IC OP AMP LOW–BIAS–H–IMPD 8 PIN DIP–C	02180	OP–16FZ
A10U18	1826–1900	1	ANALOG SWITCH 4 SPST 16 –DIP–P		
A10U19	1826–0412	1	IC COMPARATOR PRCN DUAL 8 PIN DIP–P	03406	LM393N
A10U20	1820–2923	1	IC GATE CMOS/HC NAND TPL 3–INP	02037	MC74HC10N
A10U21	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A10U22	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A10U23	1826–0639	1	D/A 8–BIT 16–PLASTIC CMOS	03285	AD7524JN
A10U24	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A10U25	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A10U26	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A10U27	1810–0444	1	NETWORK–RES 8–SIP 100.0K OHM X 4	05524	MSP08A03–104G
A10U28	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A10U29	1826–2457	1	IC OP AMP PRCN SINGLE 8 PIN DIP–P	03285	AD845KN
A10U30	1826–0932	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27FZ
A10U31	1826–1362	1	IC TEMP XDCR 3 PIN TO–92	03285	AD592AN
A10U32	1826–1857	1	IC OP AMP HS 8 PIN DIP–P	03406	LM6361N SELECTED
A10U33	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A10U34	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A10U35	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A10U36	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A10U37	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A10U38	1855–0591	1	TRANSISTOR ARRAY 14–PIN PLSTC DIP	02883	VQ1000J
A10U39	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A10U40	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A10U41	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A10U42	1855–0591	1	TRANSISTOR ARRAY 14–PIN PLSTC DIP	02883	VQ1000J
A10U43	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A10U44	1820–2922	1	IC GATE CMOS/HC NAND QUAD 2–INP	02037	MC74HC00N
A10U45	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A10W1	1258–0124	1	SHUNT–PROGRAMMABLE 1 DBL PIN SET; .100	05518	8136–475G1
A10W2	8159–0005	1	RESISTOR 0 CWM	01339	L–2007–1
A10X1	1251–2194	4	CONNECTOR–SGL CONT SKT .021–IN–BSC–SZ	01380	3–331272–0



NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

A10 ALC
08360-60222



NOTES: UNLESS OTHERWISE SPECIFIED.

1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
C78,CR31,J7, L7,P2,Q27,R174, RT1,E6,TP12,U45, W2	

4. E1 - E6 ARE FOR REFERENCE ONLY

A10 ALC
08360-60222
(SHEET 1 of 2)

E POWER METER LOG AMPLIFIER

5 .365

H LEVELING MODE MULTIPLEXER

K DETECTOR MULTIPLEXER

J DETECTOR LOG AMPLIFIER

SHIELD BOX

A10 ALC
08360-60222
(SHEET 2 of 2)

Schematic Package for 08360-60006 A10 ALC

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HEWLETT PACKARD

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60006 (1 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10	08360–60006	1	BOARD ASSY–ALC	28480	08360–60206
A10C1	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A10C2	0160–0161	1	CAP–FXD 0.01uF ±10% 200 V POLYE–FL	05176	HEW238T
A10C3	0160–6268	1	CAP–FXD 1000pF ±1% 50 V CER C0G	02010	SA105A102FAAH
A10C4	0160–6268	1	CAP–FXD 1000pF ±1% 50 V CER C0G	02010	SA105A102FAAH
A10C5	0160–0161	1	CAP–FXD 0.01uF ±10% 200 V POLYE–FL	05176	HEW238T
A10C6	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C7	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C8	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	02010	SA102A100JAAH
A10C9	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C10	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C11	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C12	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C13	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	02010	SA102A100JAAH
A10C14	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C15	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C16	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C17	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C18	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C19	0160–3335	1	CAP–FXD 470pF ±10% 100 V CER X7R	02010	SA102C471KAAH
A10C20	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C21	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A10C22	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C23	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A10C24	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C25	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C26	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C27	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C28	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C29	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C30	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C31	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C32	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C33	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C34	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C35	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C36	0160–5098	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	02010	SA405C224KAAH
A10C37	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A10C38	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C39	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C40	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C41	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C42	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A10C43	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A10C44	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C45	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	02010	SA102A100JAAH

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60006 (2 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10C46	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A10C47	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A10C48	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C49	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C50	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A10C51	0160–5469	1	CAP–FXD 1uF ±10% 50 V POLYE–MET	06127	MKS 2
A10C52	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C53	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C54	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C55	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C56	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C57	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C58	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C59	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C60	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C61	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C62	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C63	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C64	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C65	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C66	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C67	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10C68	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A10C69	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A10C70	0180–3849	1	CAP–FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A10C71	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A10C72	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A10C73	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A10C74	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A10C75	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A10C76	0160–4788	1	CAP–FXD 18pF ±5% 100 V CER C0G	02010	SA102A180JAAH
A10C77	0160–4805	1	CAP–FXD 47pF ±5% 100 V CER C0G	02010	SA102A470JAAH
A10CR1	1901–0376	1	DIODE–GEN PRP 35V 50MA DO–35	00046	S303
A10CR2	1901–0376	1	DIODE–GEN PRP 35V 50MA DO–35	00046	S303
A10CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR4	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR13	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR14	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60006 (3 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10CR15	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR16	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR17	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR18	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR19	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR20	1901–0376	1	DIODE–GEN PRP 35V 50MA DO–35	00046	S303
A10CR21	1901–0376	1	DIODE–GEN PRP 35V 50MA DO–35	00046	S303
A10CR22	1901–0376	1	DIODE–GEN PRP 35V 50MA DO–35	00046	S303
A10CR23	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR24	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR25	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR26	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR27	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR28	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR29	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR30	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10CR31	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A10J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J2	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J3	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J4	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J5	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J6	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10J7	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A10L1	9140–1359	1	INDUCTOR 10MH ±2% .685D–IN	05524	ITP–1331–96
A10L2	9140–1359	1	INDUCTOR 10MH ±2% .685D–IN	05524	ITP–1331–96
A10L3	9100–3560	1	INDUCTOR RF–CH–MLD 5.6UH ±5%	03273	15M561J
A10L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A10L5	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A10L6	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A10MP2	0403–0621	1	EXTR–PC BD BLK NYL .062–IN–BD–THKNS	02123	91–2–BLACK–5
A10MP3	0403–0630	1	EXTR–PC BD BRN NYL .062–IN–BD–THKNS	02123	91–2–BROWN–9
A10MP4	08360–40008	1			
A10MP5	0624–0518	2	SCREW–TPG 6–19 .25–IN–LG PAN–HD–TORX T15	05610	
A10P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A10P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A10Q1	1854–1109	1	TRANSISTOR–DUAL NPN TO–78 PD=500MW	02180	MAT–02FH
A10Q2	1854–0907	1	TRANSISTOR NPN 2N2484 TO–18 PD=360MW	02037	
A10Q3	1853–0388	1	TRANSISTOR–DUAL PNP TO–78 PD=600MW	02037	
A10Q4	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A10Q5	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A10Q6	1855–0278	1	TRANSISTOR J–FET 2N5116 P–CHAN D–MODE	03406	2N5116
A10Q7	1855–0232	1	TRANSISTOR–JFET DUAL 2N5565 N–CHAN	02883	2N5565
A10Q8	1853–0388	1	TRANSISTOR–DUAL PNP TO–78 PD=600MW	02037	
A10Q9	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A10Q10	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60006 (4 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10Q11	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A10Q12	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q13	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q14	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q15	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q16	1854–0457	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD485
A10Q17	1853–0388	1	TRANSISTOR–DUAL PNP TO–78 PD=600MW	02037	
A10Q18	1853–0451	1	TRANSISTOR PNP 2N3799 SI TO–18 PD=360MW	02037	
A10Q19	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A10Q20	1854–0457	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD485
A10Q21	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A10Q22	1854–0457	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD485
A10Q23	1853–0075	1	TRANSISTOR–DUAL PNP PD=400MW	02037	
A10Q24	1854–1109	1	TRANSISTOR–DUAL NPN TO–78 PD=500MW	02180	MAT–02FH
A10Q25	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q26	1855–0276	1	TRANSISTOR J–FET 2N4416A N–CHAN D–MODE	02037	2N4416A
A10Q27	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A10R1	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R2	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R3	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R4	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R5	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R6	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R7	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R8	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R9	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R10	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R11	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R12	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R13	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R14	0757–0419	1	RESISTOR 681 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R15	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R16	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R17	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R18	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R19	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R20	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R21	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R22	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R23	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R24	0757–0419	1	RESISTOR 681 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R25	0698–3443	1	RESISTOR 287 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R26	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R27	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R28	0698–3158	1	RESISTOR 23.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R29	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60006 (5 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10R30	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R31	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R32	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R33	0698–3620	1	RESISTOR 100 ±5% 2W MO TC=0±200	02499	GS–3
A10R34	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R35	2100–3350	1	RESISTOR–TRMR 200 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–201
A10R36	0757–0398	1	RESISTOR 75 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R37	0698–6364	1	RESISTOR 50 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R38	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R39	2100–3352	1	RESISTOR–TRMR 1K 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–102
A10R40	0698–8607	1	RESISTOR 4.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1
A10R41	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R42	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R43	0698–3620	1	RESISTOR 100 ±5% 2W MO TC=0±200	02499	GS–3
A10R44	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R45	0698–6614	1	RESISTOR 7.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R46	0698–6614	1	RESISTOR 7.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R47	0757–0418	1	RESISTOR 619 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R48	0698–3442	1	RESISTOR 237 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R49	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R50	0698–6614	1	RESISTOR 7.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R51	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R52	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R53	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R54	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R55	2100–3351	1	RESISTOR–TRMR 500 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–501
A10R56	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R57	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R58	0698–6977	1	RESISTOR 30K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R59	0698–3158	1	RESISTOR 23.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R60	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R61	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R62	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R63	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R64	0698–3446	1	RESISTOR 383 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R65	0757–0398	1	RESISTOR 75 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R66	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R67	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R68	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R69	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R70	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R71	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R72	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R73	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R74	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R75	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60006 (6 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10R76	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R77	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R78	0698–6977	1	RESISTOR 30K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R79	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R80	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R81	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R82	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R83	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R84	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R85	0698–3153	1	RESISTOR 3.83K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R86	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R87	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R88	0698–3434	1	RESISTOR 34.8 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R89	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R90	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R91	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R92	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R93	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R94	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R95	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R96	0698–6376	1	RESISTOR 200K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R97	0698–3158	1	RESISTOR 23.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R98	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R99	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R100	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R101	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R102	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R103	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R104	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R105	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R106	0698–6358	1	RESISTOR 100K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R107	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R108	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R109	0699–2456	1	RESISTOR 1K ±0.01% .1W TF TC=0±5	06337	5023Z
A10R110	0699–2456	1	RESISTOR 1K ±0.01% .1W TF TC=0±5	06337	5023Z
A10R111	0699–2455	1	RESISTOR 9K ±0.01% .1W TF TC=0±5	06337	5023Z
A10R112	0757–0460	1	RESISTOR 61.9K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R113	0698–6965	1	RESISTOR 505 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R114	0698–8607	1	RESISTOR 4.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1
A10R115	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R116	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R117	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R118	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R119	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R120	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R121	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60006 (7 of 9)

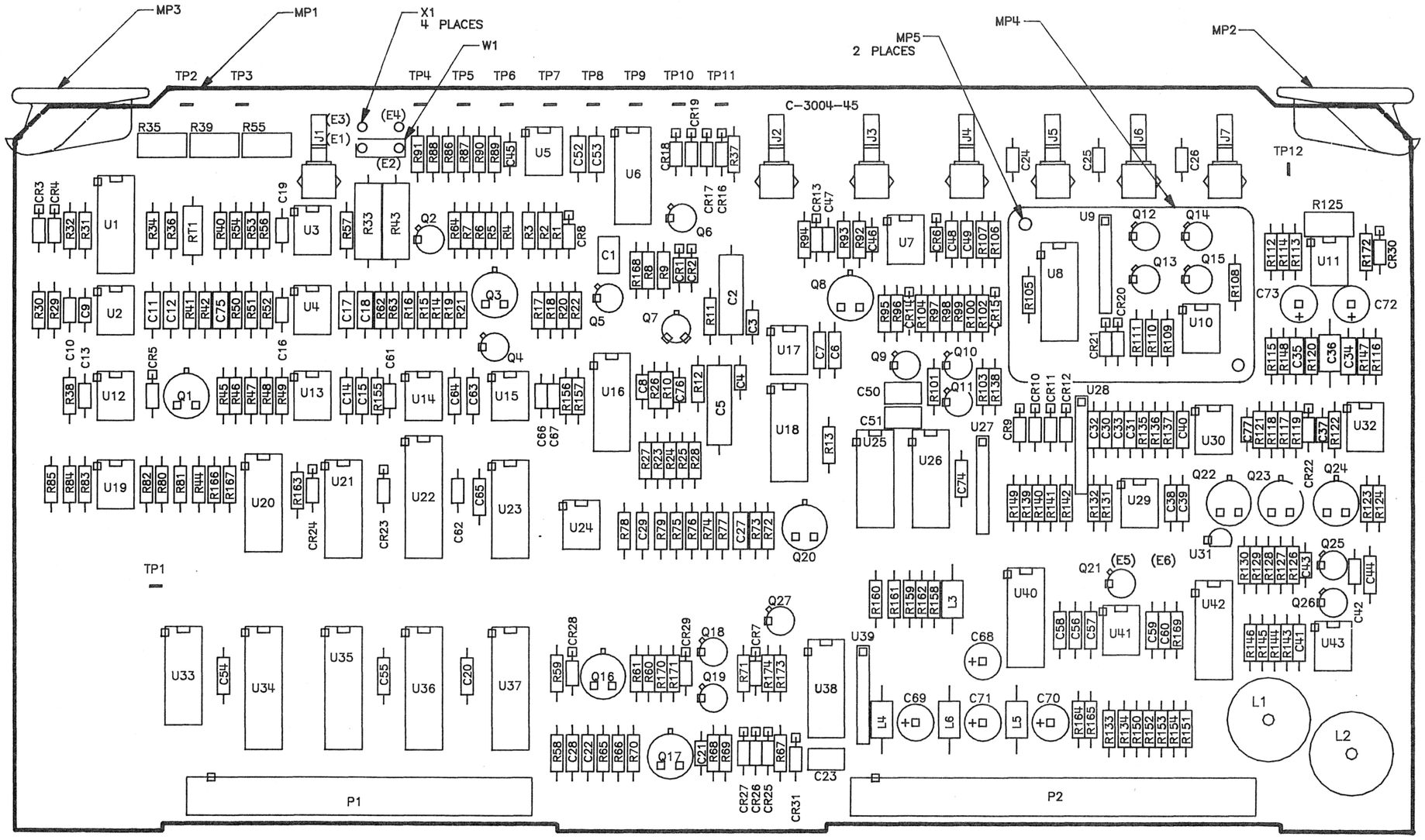
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10R122	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R123	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R124	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R125	2100–3274	1	RESISTOR–TRMR 10K 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–103
A10R126	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R127	0698–3429	1	RESISTOR 19.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R128	0698–3446	1	RESISTOR 383 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R129	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R130	0757–0459	1	RESISTOR 56.2K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R131	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R132	0698–6782	1	RESISTOR 250 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R133	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R134	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R135	0757–0459	1	RESISTOR 56.2K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R136	0698–6353	1	RESISTOR 50K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R137	0698–6358	1	RESISTOR 100K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R138	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R139	0698–3459	1	RESISTOR 383K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R140	0698–3459	1	RESISTOR 383K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R141	0698–3459	1	RESISTOR 383K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R142	0698–3459	1	RESISTOR 383K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R143	0757–0458	1	RESISTOR 51.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R144	0757–0460	1	RESISTOR 61.9K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R145	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R146	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R147	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R148	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R149	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R150	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R151	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R152	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R153	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R154	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R155	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R156	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R157	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R158	0698–6977	1	RESISTOR 30K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R159	0698–6343	1	RESISTOR 9K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R160	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R161	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R162	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R163	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R164	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R165	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R166	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R167	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60006 (8 of 9)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10R168	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R169	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R170	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R171	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A10R172	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R173	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10R174	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A10RT1	0837–0342	1	THERMISTOR TUB WITH AXL LEADS 100–OHM	06784	1K101J
A10TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP11	1460–2201	1	SPRING RADIAL TEST POINT		
A10TP12	1460–2201	1	SPRING RADIAL TEST POINT		
A10U1	1826–1824	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG411DJ
A10U2	1826–0932	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27FZ
A10U3	1826–0932	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27FZ
A10U4	1826–0932	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27FZ
A10U5	1826–1367	1	IC OP AMP LOW–BIAS–H–IMPD 8 PIN DIP–C	02180	OP–16FZ
A10U6	1826–1824	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG411DJ
A10U7	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A10U8	1858–0116	1	TRANSISTOR ARRAY 14–PIN PLSTC TO–116	02883	VQ1001J
A10U9	1810–0444	1	NETWORK–RES 8–SIP 100.0K OHM X 4	05524	MSP08A03–104G
A10U10	1826–1719	1	IC OP AMP PRCN 8 PIN CBRZ	02180	OP–77E SELECTED
A10U11	1826–2241	1	IC OP AMP H–SLEW–RATE SINGLE 8 PIN DIP–P	03285	AD843KN
A10U12	1826–0932	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27FZ
A10U13	1826–0987	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–37FZ
A10U14	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A10U15	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A10U16	1858–0077	1	TRANSISTOR ARRAY 14–PIN PLSTC TO–116	02037	MPQ2222P
A10U17	1826–1367	1	IC OP AMP LOW–BIAS–H–IMPD 8 PIN DIP–C	02180	OP–16FZ
A10U18	1826–1900	1	ANALOG SWITCH 4 SPST 16 –DIP–P		
A10U19	1826–0412	1	IC COMPARATOR PRCN DUAL 8 PIN DIP–P	03406	LM393N
A10U20	1820–2923	1	IC GATE CMOS/HC NAND TPL 3–INP	02037	MC74HC10N
A10U21	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A10U22	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A10U23	1826–0639	1	D/A 8–BIT 16–PLASTIC CMOS	03285	AD7524JN
A10U24	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A10U25	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A10U26	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N

Replaceable Parts List for A10 ALC Assembly, Part Number 08360–60006 (9 of 9)

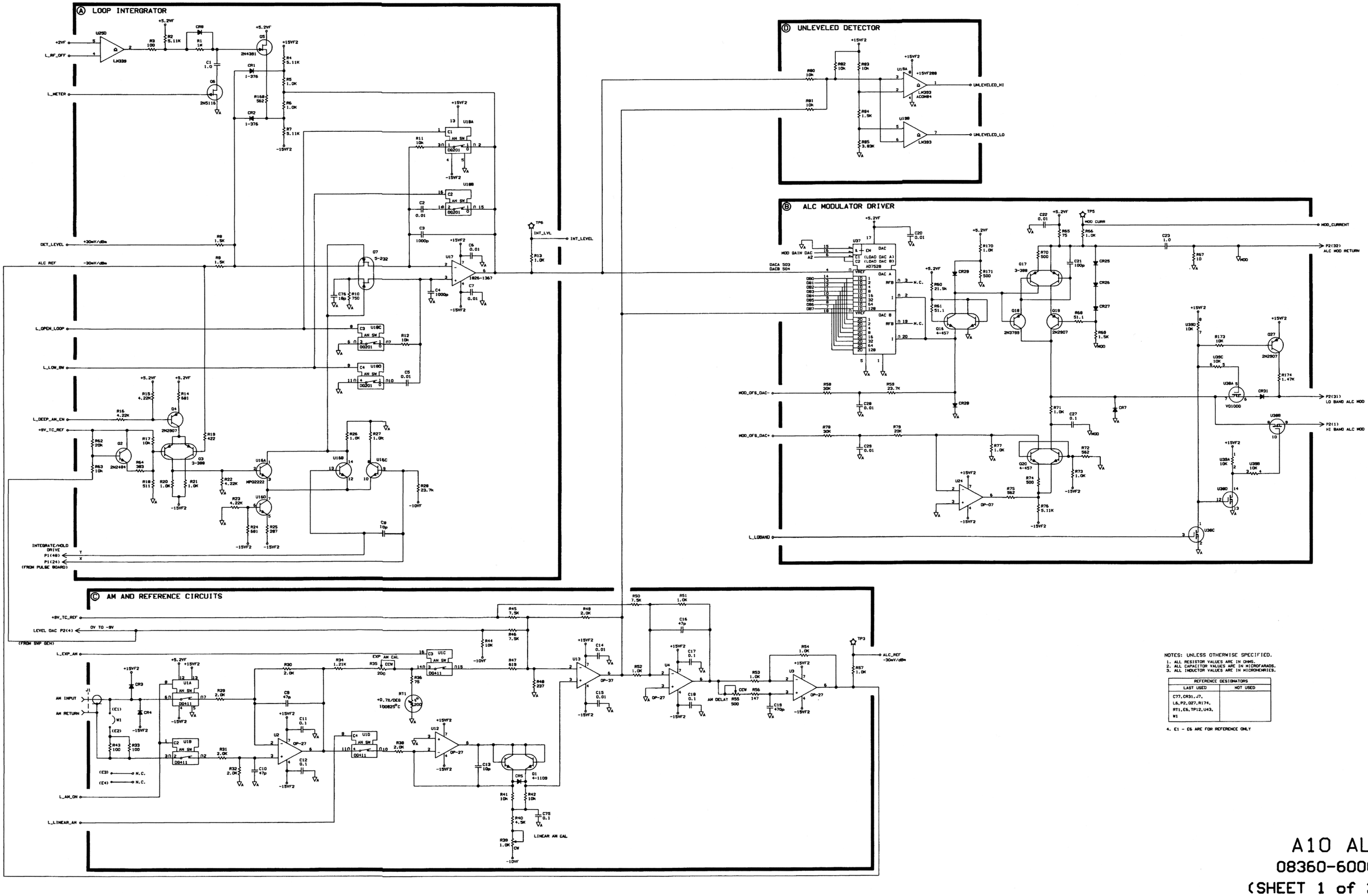
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A10U27	1810–0444	1	NETWORK–RES 8–SIP 100.0K OHM X 4	05524	MSP08A03–104G
A10U28	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A10U29	1826–0987	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–37FZ
A10U30	1826–0932	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27FZ
A10U31	1826–1362	1	IC TEMP XDCR 3 PIN TO–92	03285	AD592AN
A10U32	1826–1857	1	IC OP AMP HS 8 PIN DIP–P	03406	LM6361N SELECTED
A10U33	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A10U34	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A10U35	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A10U36	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A10U37	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A10U38	1855–0591	1	TRANSISTOR ARRAY 14–PIN PLSTC DIP	02883	VQ1000J
A10U39	1810–0406	1	NETWORK–RES 8–SIP 10.0K OHM X 4	02483	750–83–R10K
A10U40	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A10U41	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A10U42	1855–0591	1	TRANSISTOR ARRAY 14–PIN PLSTC DIP	02883	VQ1000J
A10U43	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A10W1	1258–0124	1	SHUNT–PROGRAMMABLE 1 DBL PIN SET; .100	05518	8136–475G1
A10X1	1251–2194	4	CONNECTOR–SGL CONT SKT .021–IN–BSC–SZ	01380	3–331272–0



NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

A10 ALC
08360-60006



NOTES: UNLESS OTHERWISE SPECIFIED.

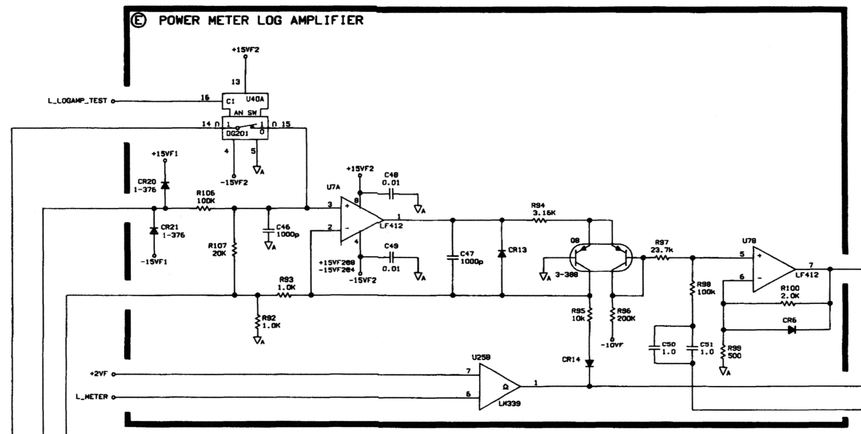
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
C77, CR31..7, L6, P2, Q27, R174, RT1, E6, TP12, U43, W1	

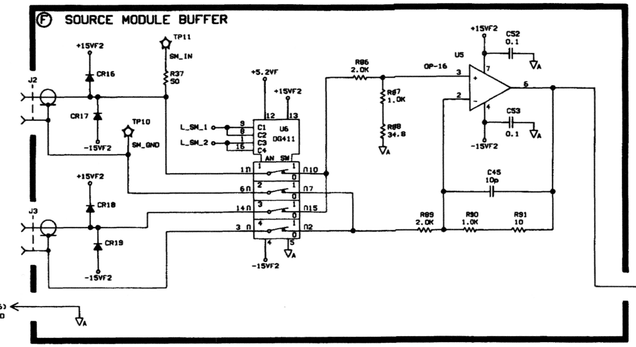
4. E1 - E6 ARE FOR REFERENCE ONLY

A10 ALC
08360-60006
(SHEET 1 of 2)

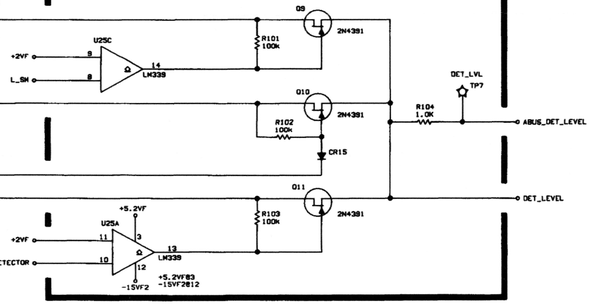
(E) POWER METER LOG AMPLIFIER



(F) SOURCE MODULE BUFFER

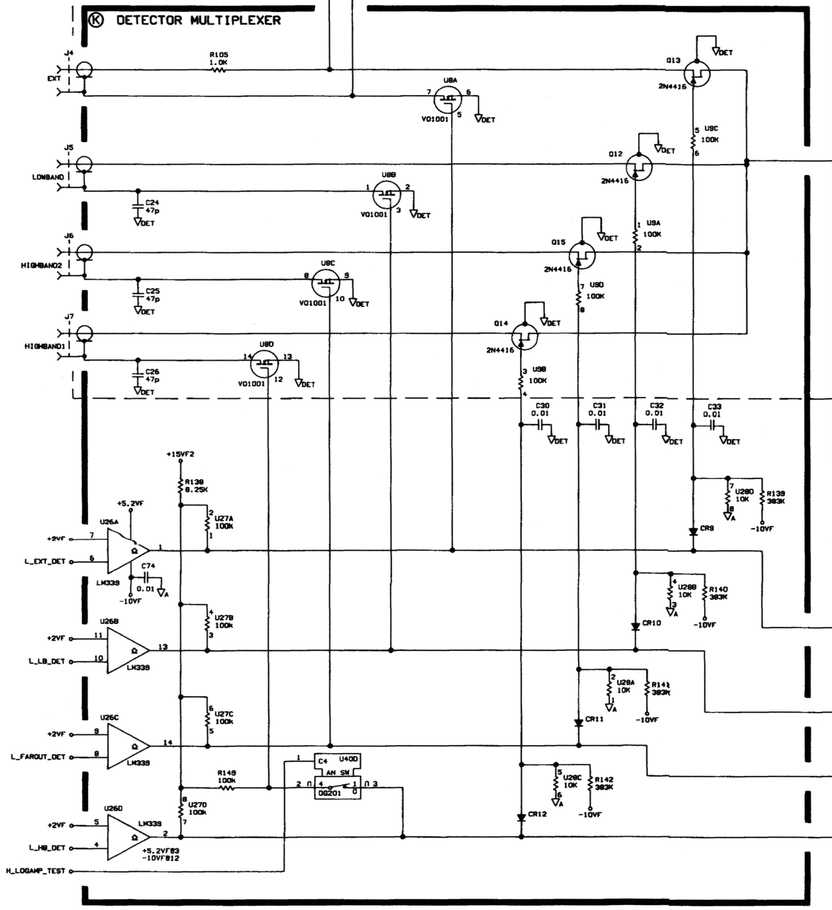


(H) LEVELING MODE MULTIPLEXER

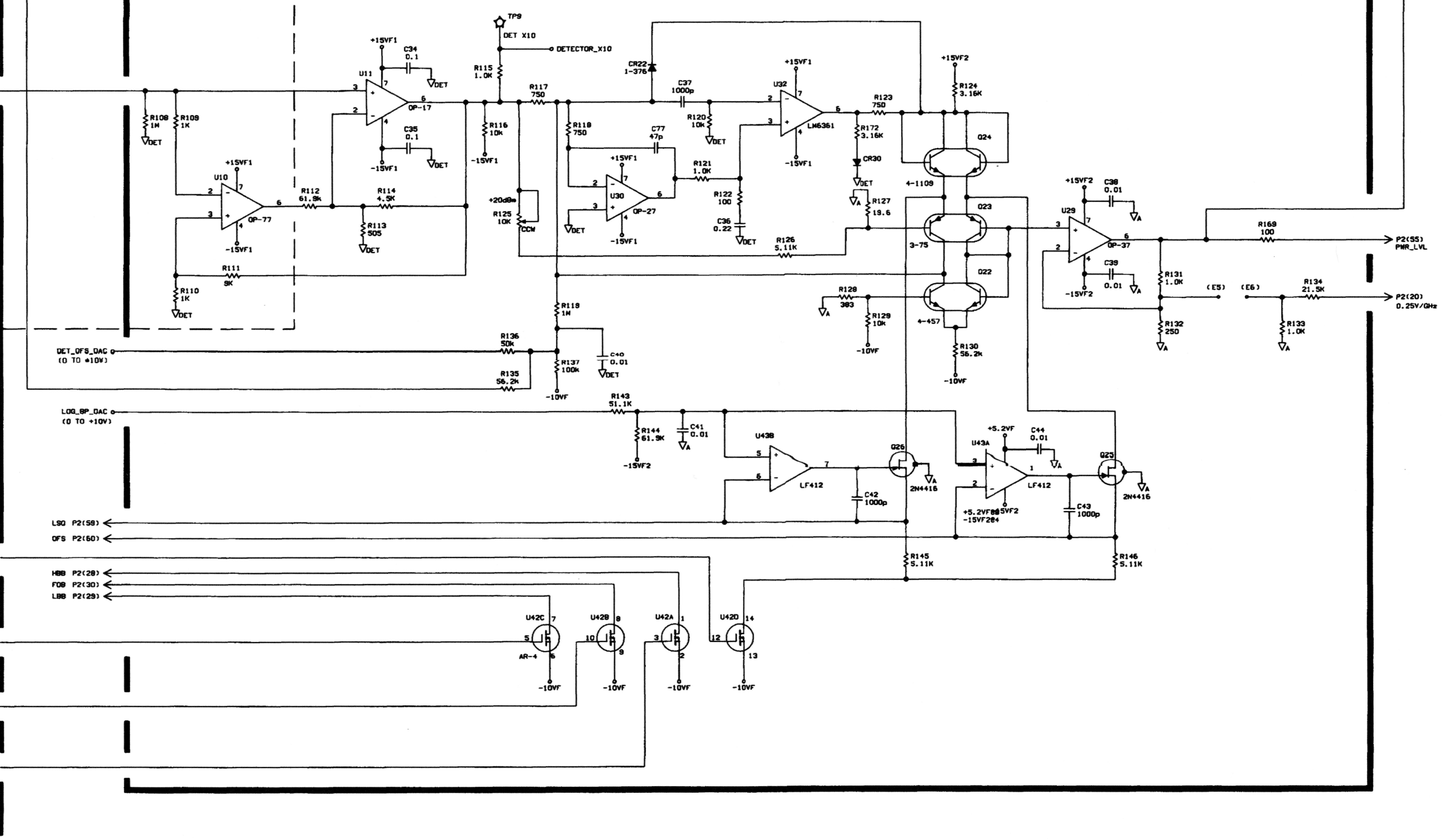


SHIELD BOX

(K) DETECTOR MULTIPLEXER



(J) DETECTOR LOG AMPLIFIER



A10 ALC
08360-60006
(SHEET 2 of 2)

Schematic Package for 08360-60011 A11 FM Driver

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Replaceable Parts List for A11 FM Driver Assembly, Part Number 08360–60011 (1 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A11	08360–60011	1	BD ASSY–FM DRVR	28480	08360–60011
A11C1	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A11C2	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A11C3	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A11C4	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A11C5	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C6	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C9	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C10	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C11	0160–5755	1	CAP–FXD 0.1uF ±10% 100 V CER X7R	02010	SA401C104KAAH
A11C12	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C13	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C14	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C15	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C16	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C17	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C18	0160–4819	1	CAP–FXD 2200pF ±5% 100 V CER C0G	02010	SA301A222JAAH
A11C19	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A11C20	0160–4812	1	CAP–FXD 220pF ±5% 100 V CER C0G	02010	SA101A221JAAH
A11C21	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C22	0160–5755	1	CAP–FXD 0.1uF ±10% 100 V CER X7R	02010	SA401C104KAAH
A11C24	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C26	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C27	0160–4535	1	CAP–FXD 1uF ±10% 50 V CER X7R	09939	RPE113–130X7R105K50V
A11C28	0160–4535	1	CAP–FXD 1uF ±10% 50 V CER X7R	09939	RPE113–130X7R105K50V
A11C29	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C30	0160–4517	1	CAP–FXD 1.2pF ±20.8% 200 V CER C0G	06352	FD11C0G2D1R2C
A11C31	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C32	0180–4129	1	CAP–FXD 1uF ±10% 35 V TA	04200	173D105X9035V
A11C33	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C34	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C35	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A11C37	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C38	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A11C39	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A11C40	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A11C41	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A11C42	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A11C43	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A11C44	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C45	0160–4833	1	CAP–FXD 0.022uF ±10% 100 V CER X7R	02010	SA201C223KAAH
A11C46	0160–4833	1	CAP–FXD 0.022uF ±10% 100 V CER X7R	02010	SA201C223KAAH
A11C47	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C48	0160–3335	1	CAP–FXD 470pF ±10% 100 V CER X7R	02010	SA102C471KAAH
A11C50	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A11C51	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH

Replaceable Parts List for A11 FM Driver Assembly, Part Number 08360–60011 (2 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A11CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A11CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A11CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A11CR4	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A11CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A11CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A11CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A11CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A11CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A11CR11	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A11CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A11CR13	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A11J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A11J2	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A11L1	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A11L2	9100–1629	1	INDUCTOR RF–CH–MLD 47UH ±5%	05826	1537–60
A11L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A11L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A11L5	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A11L6	9100–1629	1	INDUCTOR RF–CH–MLD 47UH ±5%	05826	1537–60
A11MP2	1205–0037	6	HEAT SINK TO–18–CS	05792	TXBF–019–025B
A11MP3	1205–0011	3	HEAT SINK TO–5/TO–39–CS	05792	TXBF–032–025B
A11MP4	0403–0630	2	EXTR–PC BD BRN NYL .062–IN–BD–THKNS	02123	91–2–BROWN–9
A11MP5	1200–0173	4	INSULATOR–XSTR DAP–GL	02210	A–10001 DAP
A11P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A11P2	1251–6912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A11Q1	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A11Q2	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A11Q3	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A11Q4	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A11Q5	1854–0215	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904
A11Q6	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A11Q7	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A11Q8	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A11Q9	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A11Q10	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A11Q11	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A11Q12	1854–0215	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904
A11Q13	1853–0007	1	TRANSISTOR PNP 2N3251 SI TO–18 PD=360MW	02037	2N3251
A11Q14	1853–0007	1	TRANSISTOR PNP 2N3251 SI TO–18 PD=360MW	02037	2N3251
A11Q15	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A11Q16	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A11Q17	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A11Q18	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A11Q19	1854–0215	1	TRANSISTOR NPN SI TO–92 PD=625MW	02037	2N3904

Replaceable Parts List for A11 FM Driver Assembly, Part Number 08360–60011 (3 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A11Q20	1854–0378	1	TRANSISTOR NPN 2N5109 SI TO–39 PD=800MW	02037	2N5109
A11Q21	1854–0809	1	TRANSISTOR NPN 2N2369A SI TO–18 PD=360MW	02037	2N2369A
A11Q22	1854–0809	1	TRANSISTOR NPN 2N2369A SI TO–18 PD=360MW	02037	2N2369A
A11Q23	1853–0430	1	TRANSISTOR PNP 2N4959 SI TO–72 PD=200MW	02037	2N4959
A11Q24	1854–0401	1	TRANSISTOR NPN SI TO–72 PD=200MW	02037	
A11Q25	1853–0430	1	TRANSISTOR PNP 2N4959 SI TO–72 PD=200MW	02037	2N4959
A11Q26	1854–0401	1	TRANSISTOR NPN SI TO–72 PD=200MW	02037	
A11Q27	1853–0293	1	TRANSISTOR PNP 2N5583 SI TO–39 PD=1W	02037	2N5583
A11Q28	1854–0597	1	TRANSISTOR NPN 2N5943 SI TO–39 PD=1W	02037	2N5943
A11Q29	1853–0314	1	TRANSISTOR PNP 2N2905A SI TO–39 PD=400MW	02037	2N2905A
A11Q30	1854–0295	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD4465
A11Q31	1854–0295	1	TRANSISTOR–DUAL NPN TO–78 PD=400MW	02037	SD4465
A11R1	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R2	0698–3401	1	RESISTOR 215 ±1% .5W TF TC=0±100	05524	CMF–65–2
A11R3	0698–3401	1	RESISTOR 215 ±1% .5W TF TC=0±100	05524	CMF–65–2
A11R4	0698–3401	1	RESISTOR 215 ±1% .5W TF TC=0±100	05524	CMF–65–2
A11R5	0698–3401	1	RESISTOR 215 ±1% .5W TF TC=0±100	05524	CMF–65–2
A11R6	0698–3434	1	RESISTOR 34.8 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R7	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R8	0757–0395	1	RESISTOR 56.2 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R9	0698–8823	1	RESISTOR 8.25 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R10	0698–3432	1	RESISTOR 26.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R11	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R12	0698–3457	1	RESISTOR 316K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R13	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R14	0698–3411	1	RESISTOR 3.48K ±1% .5W TF TC=0±100	05524	CMF–65–2
A11R15	0698–6323	1	RESISTOR 100 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R16	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R17	0698–6323	1	RESISTOR 100 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R18	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R19	0698–6377	1	RESISTOR 200 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R20	0698–6323	1	RESISTOR 100 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R21	0698–6323	1	RESISTOR 100 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R22	0698–6774	1	RESISTOR 150 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R23	0698–3435	1	RESISTOR 38.3 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R24	0698–8815	1	RESISTOR 1.78 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R25	0698–6377	1	RESISTOR 200 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R26	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R27	0698–3406	1	RESISTOR 1.33K ±1% .5W TF TC=0±100	05524	CMF–65–2
A11R28	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R29	0698–3460	1	RESISTOR 422K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R30	0698–3443	1	RESISTOR 287 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R31	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R32	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R33	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A11 FM Driver Assembly, Part Number 08360–60011 (4 of 6)

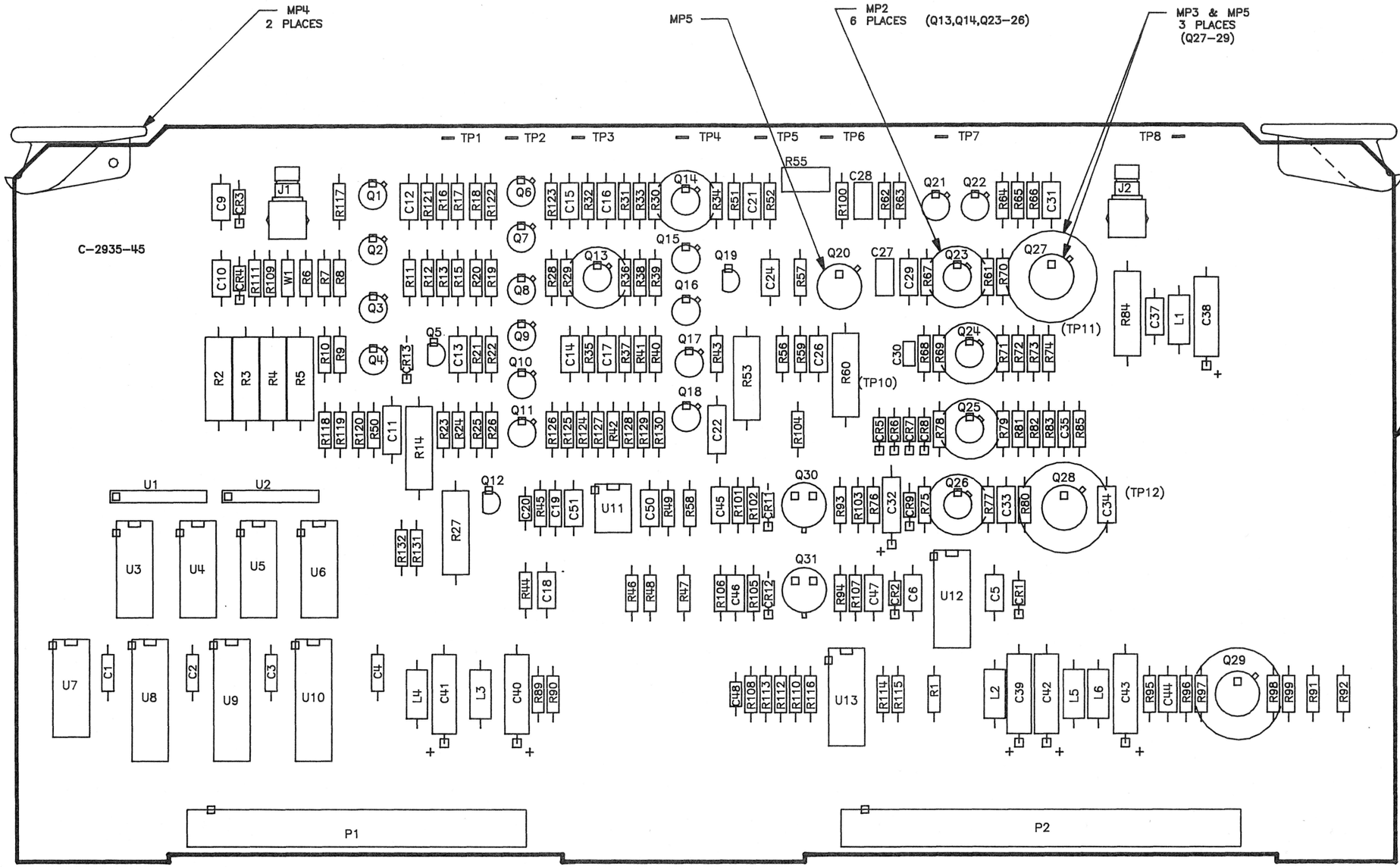
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A11R34	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R35	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R36	0698–6323	1	RESISTOR 100 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R37	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R38	0698–6323	1	RESISTOR 100 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R39	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R40	0698–6377	1	RESISTOR 200 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R41	0698–6323	1	RESISTOR 100 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R42	0698–6346	1	RESISTOR 300 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R43	0698–6627	1	RESISTOR 25K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R44	0698–8812	1	RESISTOR 1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R45	0698–3136	1	RESISTOR 17.8K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R46	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R47	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R48	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R49	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R50	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R51	0698–3457	1	RESISTOR 316K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R52	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R53	0698–3411	1	RESISTOR 3.48K ±1% .5W TF TC=0±100	05524	CMF–65–2
A11R55	2100–3352	1	RESISTOR–TRMR 1K 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–102
A11R56	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R57	0757–0180	1	RESISTOR 31.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R58	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R59	0698–3430	1	RESISTOR 21.5 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R60	0757–0816	1	RESISTOR 681 ±1% .5W TF TC=0±100	05524	CMF–65–2
A11R61	0698–6782	1	RESISTOR 250 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R62	0698–6782	1	RESISTOR 250 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R63	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R64	0698–3151	1	RESISTOR 2.87K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R65	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R66	0698–3151	1	RESISTOR 2.87K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R67	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R68	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R69	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R70	0757–0397	1	RESISTOR 68.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R71	0698–0082	1	RESISTOR 464 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R72	0757–0400	1	RESISTOR 90.9 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R73	0757–0439	1	RESISTOR 6.81K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R74	0698–3429	1	RESISTOR 19.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R75	0698–3132	1	RESISTOR 261 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R76	0757–0439	1	RESISTOR 6.81K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R77	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R78	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R79	0698–0082	1	RESISTOR 464 ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A11 FM Driver Assembly, Part Number 08360–60011 (5 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A11R80	0757–0397	1	RESISTOR 68.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R81	0757–0400	1	RESISTOR 90.9 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R82	0757–0439	1	RESISTOR 6.81K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R83	0698–3429	1	RESISTOR 19.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R84	0698–3396	1	RESISTOR 38.3 ±1% .5W TF TC=0±100	05524	CMF–65–2
A11R85	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R89	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R90	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R91	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R92	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R93	0757–0180	1	RESISTOR 31.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R94	0757–0180	1	RESISTOR 31.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R95	0757–0288	1	RESISTOR 9.09K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R96	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R97	0698–0082	1	RESISTOR 464 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R98	0698–3449	1	RESISTOR 28.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R99	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R100	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R101	0698–0083	1	RESISTOR 1.96K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R102	0698–3449	1	RESISTOR 28.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R103	0698–3151	1	RESISTOR 2.87K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R104	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R105	0698–3449	1	RESISTOR 28.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R106	0698–0083	1	RESISTOR 1.96K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R107	0698–3151	1	RESISTOR 2.87K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R108	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R109	0698–3159	1	RESISTOR 26.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R110	0698–3158	1	RESISTOR 23.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R111	0757–0458	1	RESISTOR 51.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R112	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R113	0757–0439	1	RESISTOR 6.81K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R114	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R115	0698–6322	1	RESISTOR 4K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11R116	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R117	0698–3260	1	RESISTOR 464K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R118	0698–3260	1	RESISTOR 464K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R119	0698–3260	1	RESISTOR 464K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R120	0698–3260	1	RESISTOR 464K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R121	0698–3260	1	RESISTOR 464K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R122	0698–3260	1	RESISTOR 464K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R123	0698–3260	1	RESISTOR 464K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R124	0698–3260	1	RESISTOR 464K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R125	0698–3260	1	RESISTOR 464K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R126	0698–3260	1	RESISTOR 464K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R127	0698–3260	1	RESISTOR 464K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A11 FM Driver Assembly, Part Number 08360–60011 (6 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A11R128	0698–3260	1	RESISTOR 464K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R129	0698–3260	1	RESISTOR 464K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R130	0698–3260	1	RESISTOR 464K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R131	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A11R132	0698–6322	1	RESISTOR 4K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A11TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A11TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A11TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A11TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A11TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A11TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A11TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A11TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A11U1	1810–0371	1	NETWORK–RES 8–SIP 100.0K OHM X 7	02483	750–81
A11U2	1810–0371	1	NETWORK–RES 8–SIP 100.0K OHM X 7	02483	750–81
A11U3	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A11U4	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A11U5	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A11U6	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A11U7	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A11U8	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A11U9	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A11U10	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A11U11	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A11U12	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A11U13	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A11W1	8159–0005	1	RESISTOR 0 CWM	01339	L–2007–1

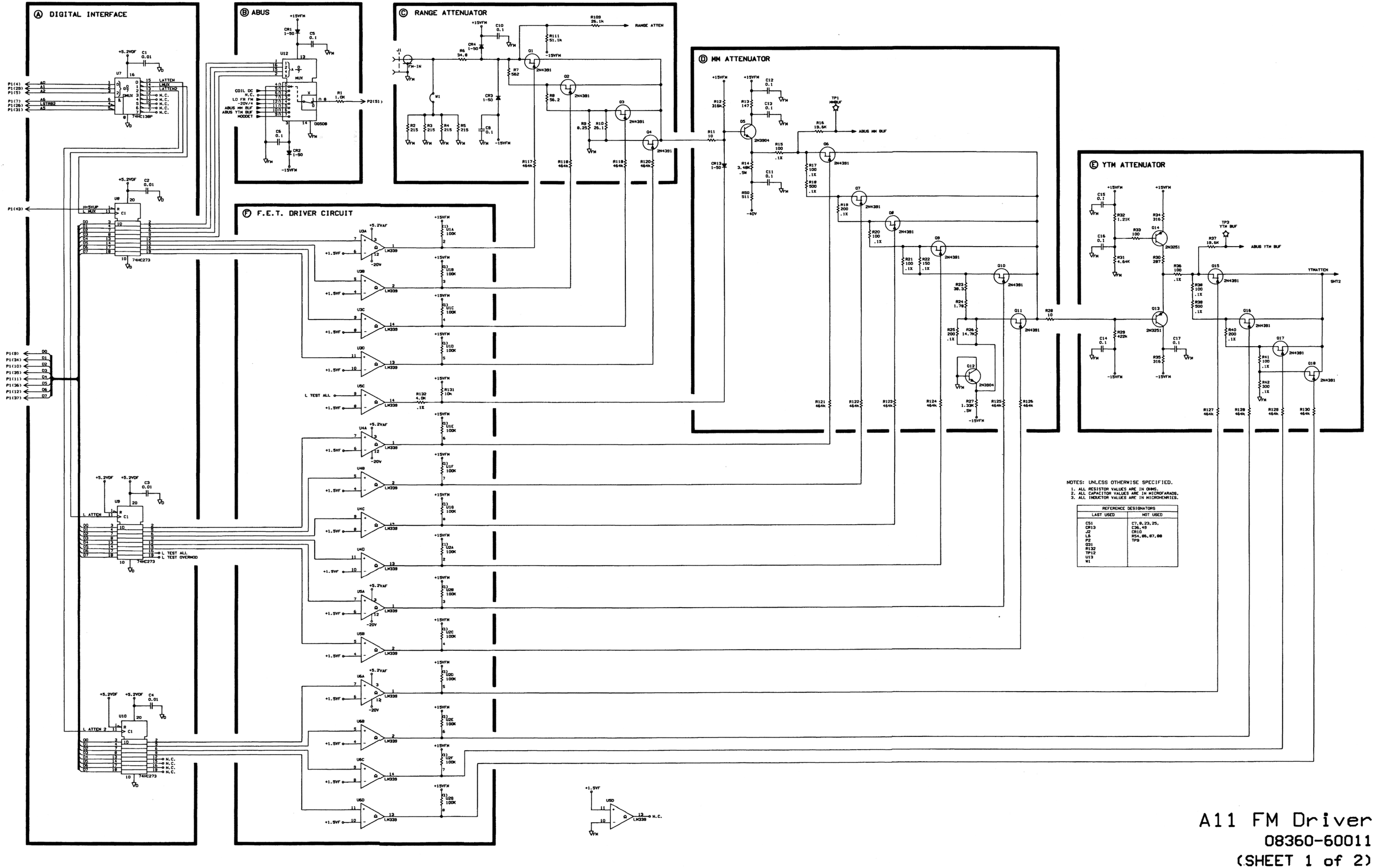


NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A–5951–1582–1 (741.070C)
SOLDERING PER A–5951–1585–1 (741.070F)
REWORK PER A–5951–1586–1 (741.070G)

HEWLETT PACKARD

A11 FM Driver

08360–60011



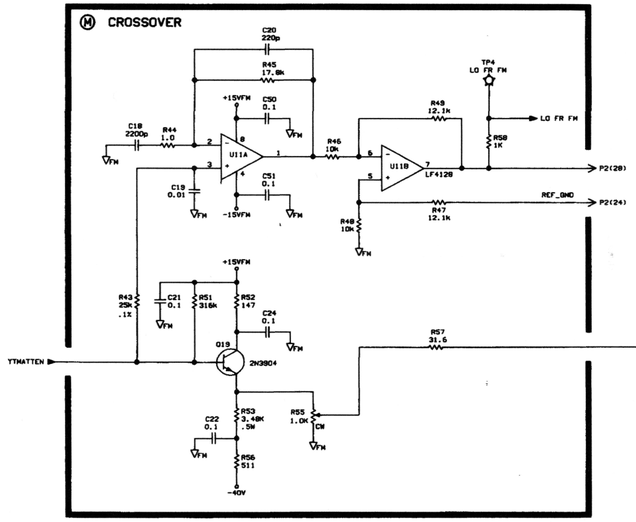
NOTES: UNLESS OTHERWISE SPECIFIED.

1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

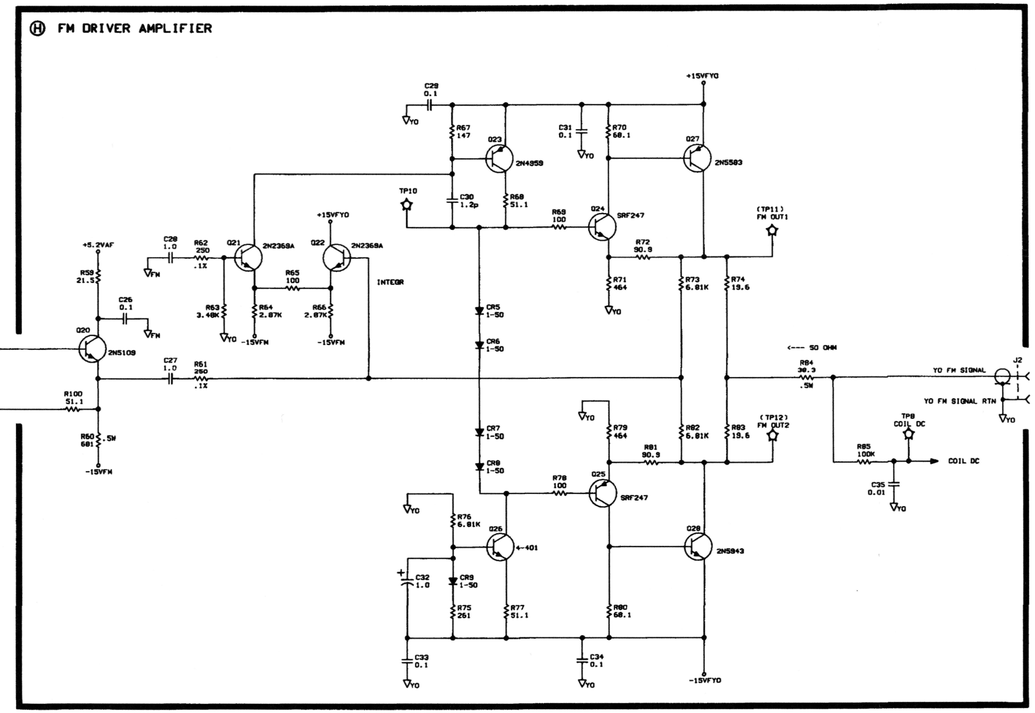
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LAST USED	NOT USED
C51	C7,8,23,25,
CR13	C36,49
J2	CR10
L6	R54,86,87,88
P2	TP9
Q31	
R132	
TP12	
U13	
W1	

A11 FM Driver
08360-60011
(SHEET 1 of 2)

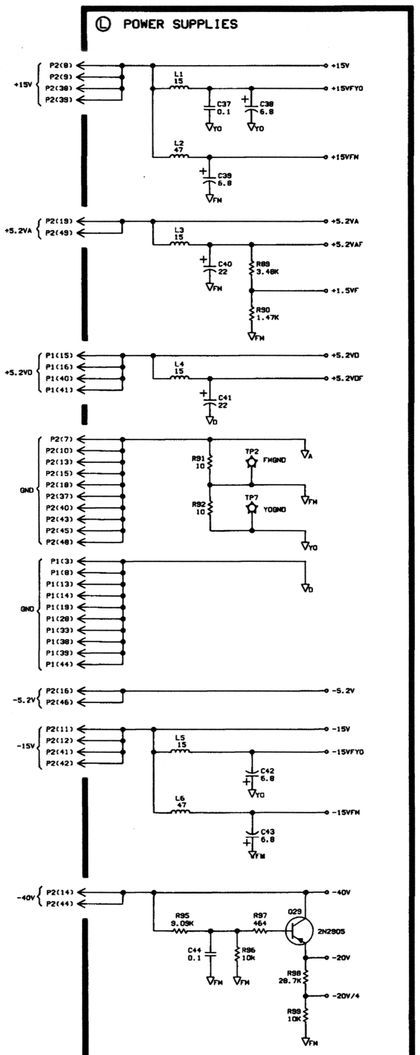
M CROSSOVER



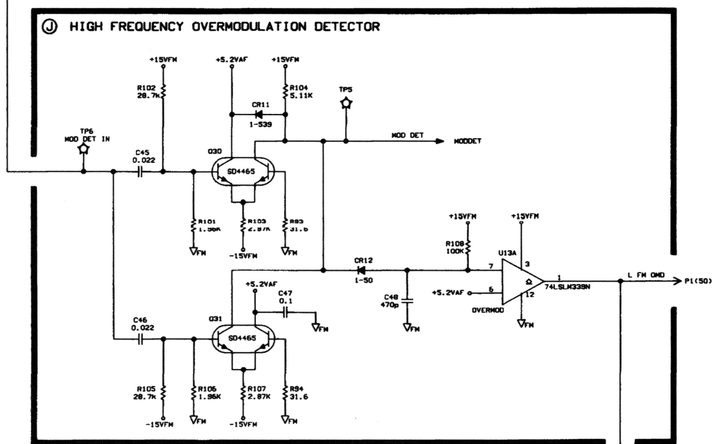
H FM DRIVER AMPLIFIER



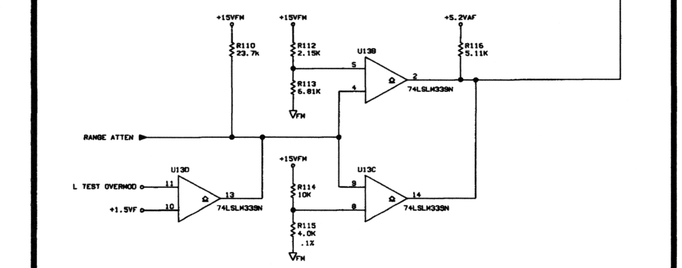
L POWER SUPPLIES



J HIGH FREQUENCY OVERMODULATION DETECTOR



K LOW FREQ OVERMODULATION DETECTION



A11 FM Driver
08360-60011
(SHEET 2 of 2)

Schematic Package for 08360-60012 A12 SYTM Driver

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Information in this document is subject to change without notice. The configuration of some assemblies may differ from that indicated in this document.



Replaceable Parts List for A12 SYTM Driver Assembly, Part Number 08360–60012 (1 of 5)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A12	08360–60012	1	BD AY–SYTM DRVR	28480	08360–60012
A12C2	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C3	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C4	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C5	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C6	0160–4811	1	CAP–FXD 270pF ±5% 100 V CER C0G	02010	SA101A271JAAH
A12C7	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C8	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C9	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C11	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	02010	SA102A330JAAH
A12C12	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	02010	SA102A330JAAH
A12C13	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C14	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C15	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C16	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C17	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C18	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	02010	SA102A330JAAH
A12C19	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	02010	SA102A330JAAH
A12C22	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	02010	SA102A330JAAH
A12C23	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C24	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C25	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C26	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C27	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	02010	SA102A330JAAH
A12C32	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A12C33	0160–0155	1	CAP–FXD 3300pF ±10% 200 V POLYE–FL	05176	HEW238T
A12C34	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C35	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C36	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	02010	SA102A330JAAH
A12C37	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A12C38	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C39	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C40	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C45	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C46	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C48	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C49	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C50	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A12C51	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A12C52	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C53	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A12C54	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A12C55	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A12C56	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12C57	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A12CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	

Replaceable Parts List for A12 SYTM Driver Assembly, Part Number 08360–60012 (2 of 5)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A12CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR4	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR14	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR15	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR16	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR17	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR18	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR19	1901–0376	1	DIODE–GEN PRP 35V 50MA DO–35	00046	S303
A12J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A12L1	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A12L2	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A12L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A12L5	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A12L6	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A12MP2	1205–0011	1	HEAT SINK TO–5/TO–39–CS	05792	TXBF–032–025B
A12MP3	08360–20033	1	HEAT SINK		
A12MP4	0535–0031	3	NUT–HEX W/LKWR M3 X 0.5 2.4MM–THK	06691	
A12MP5	0570–0639	3	STD–PRS–IN M3 X 0.5 12.000 PH–BRZ	03981	KFH–M3–12–ET
A12MP6	1200–0147	2	INSULATOR–FLG–BSHG NYLON	03380	974–302
A12MP7	1200–0081	1	INSULATOR–FLG–BSHG NYLON	03380	974 307
A12MP8	1200–0173	1	INSULATOR–XSTR DAP–GL	02210	A–10001 DAP
A12MP9	0515–0658	8	SCREW–MACHINE ASSEMBLY M2 X 0.4 6MM–LG	05610	
A12MP10	0340–1180	1	INSULATOR–XSTR THRM–CNDCT	05447	K4–06
A12MP11	0403–0630	1	EXTR–PC BD BRN NYL .062–IN–BD–THKNS	02123	91–2–BROWN–9
A12MP12	0403–0627	1	EXTR–PC BD RED NYL .062–IN–BD–THKNS	02123	91–2–RED–1
A12P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A12P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A12Q1	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A12Q2	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A12Q3	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A12Q4	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A12Q5	1855–0527	1	TRANSISTOR MOSFET P–CHAN E–MODE TO–3 SI	02037	MTM2P50
A12R1	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R2	0698–0083	1	RESISTOR 1.96K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R3	0698–0083	1	RESISTOR 1.96K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R4	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R5	2100–3353	1	RESISTOR–TRMR 20K 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–203
A12R6	0698–6619	1	RESISTOR 15K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R7	0757–0464	1	RESISTOR 90.9K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A12 SYTM Driver Assembly, Part Number 08360–60012 (3 of 5)

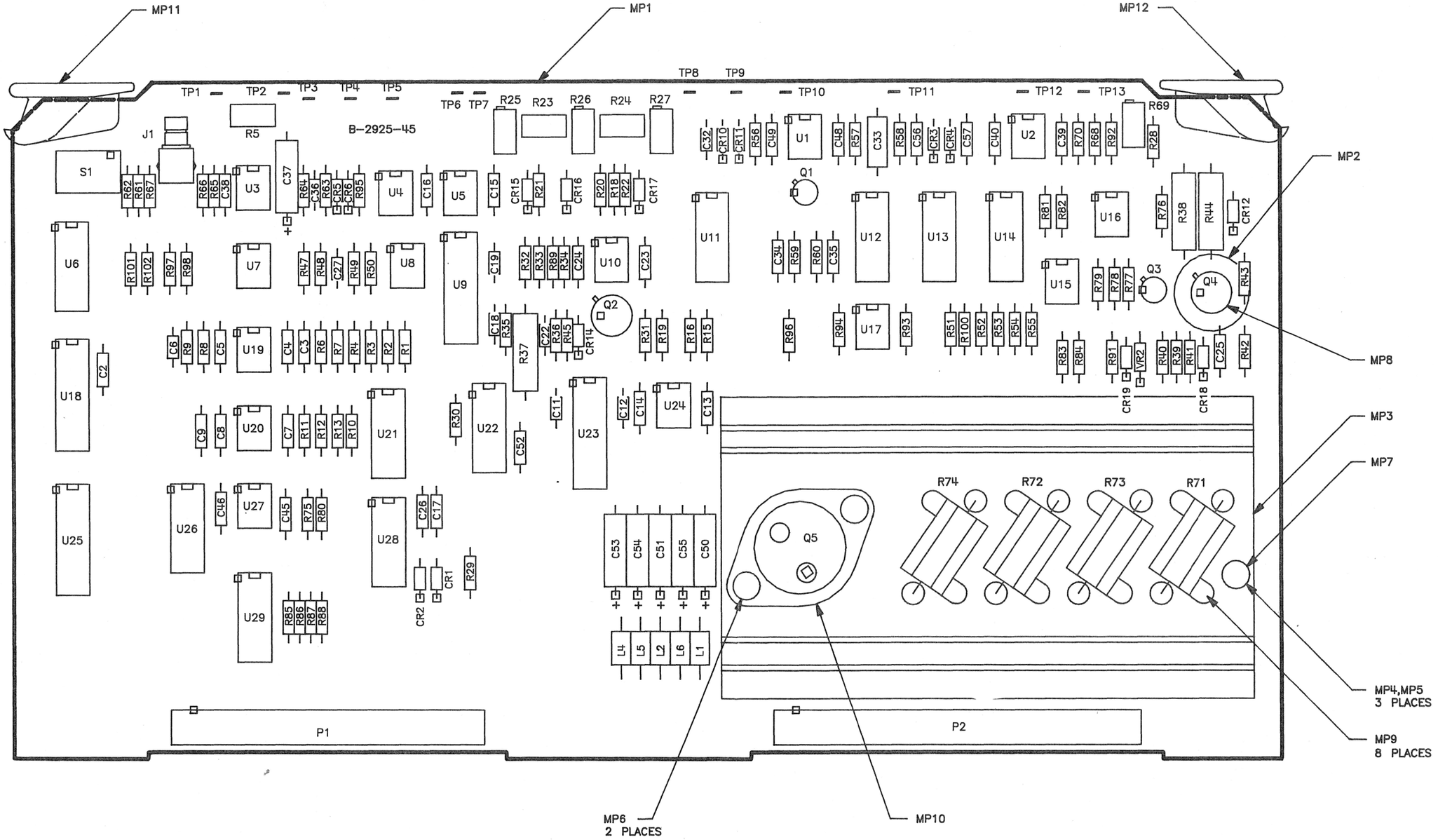
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A12R8	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R9	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R10	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R11	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R12	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R13	0757–0458	1	RESISTOR 51.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R15	0698–6977	1	RESISTOR 30K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R16	0698–6342	1	RESISTOR 90K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R18	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R19	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R20	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R21	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R22	0698–3153	1	RESISTOR 3.83K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R23	2100–3350	1	RESISTOR–TRMR 200 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–201
A12R24	2100–3350	1	RESISTOR–TRMR 200 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–201
A12R25	2100–0544	1	RESISTOR–TRMR 100K 10% TKF SIDE–ADJ	04568	67XR
A12R26	2100–3611	1	RESISTOR–TRMR 50K 10% TKF SIDE–ADJ	04568	67XR
A12R27	2100–0670	1	RESISTOR–TRMR 10K 10% TKF SIDE–ADJ	04568	67XR
A12R28	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R29	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R30	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R31	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R32	0698–6627	1	RESISTOR 25K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R33	0757–0460	1	RESISTOR 61.9K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R34	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R35	0698–6363	1	RESISTOR 40K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R36	0698–6627	1	RESISTOR 25K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R37	0698–0089	1	RESISTOR 1.78K ±1% .5W TF TC=0±100	05524	CMF–65–2
A12R38	0757–0159	1	RESISTOR 1K ±1% .5W TF TC=0±100	05524	CMF–65–2
A12R39	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R40	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R41	0757–0428	1	RESISTOR 1.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R42	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R43	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R44	0698–3396	1	RESISTOR 38.3 ±1% .5W TF TC=0±100	05524	CMF–65–2
A12R45	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R47	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R48	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R49	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R50	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R51	0698–6377	1	RESISTOR 200 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R52	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R53	0698–6355	1	RESISTOR 400 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R54	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9

Replaceable Parts List for A12 SYTM Driver Assembly, Part Number 08360–60012 (4 of 5)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A12R55	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R56	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R57	0698–0083	1	RESISTOR 1.96K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R58	0698–3442	1	RESISTOR 237 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R59	0698–0085	1	RESISTOR 2.61K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R60	0698–3443	1	RESISTOR 287 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R61	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R62	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R63	0698–6363	1	RESISTOR 40K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R64	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R65	0698–6363	1	RESISTOR 40K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R66	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R67	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R68	0698–0085	1	RESISTOR 2.61K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R69	2100–0670	1	RESISTOR–TRMR 10K 10% TKF SIDE–ADJ	04568	67XR
A12R70	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R71	0811–3763	1	RESISTOR 45 ±1% 12W PWI TC=0±2	01854	R3200–3
A12R72	0811–3763	1	RESISTOR 45 ±1% 12W PWI TC=0±2	01854	R3200–3
A12R73	0811–3763	1	RESISTOR 45 ±1% 12W PWI TC=0±2	01854	R3200–3
A12R74	0811–3761	1	RESISTOR 3 ±1% 12W PWI TC=0±5	01854	R3200–1
A12R75	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R76	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R77	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R78	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R79	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R80	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R81	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R82	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R83	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R84	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R85	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R86	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R87	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R88	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R89	0698–6358	1	RESISTOR 100K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R91	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R92	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R93	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R94	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R95	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R96	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R97	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R98	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R100	0698–6631	1	RESISTOR 2.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R101	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9

Replaceable Parts List for A12 SYTM Driver Assembly, Part Number 08360–60012 (5 of 5)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A12R102	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12S1	3101–2340	1	SWITCH–DIP RKR 5–1A 0.05A 30VDC	04990	76PSB05S
A12TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP11	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP12	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP13	1460–2201	1	SPRING RADIAL TEST POINT		
A12U1	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A12U2	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A12U3	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A12U4	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A12U5	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A12U6	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A12U7	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A12U8	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A12U9	1826–1443	1	D/A 12–DGT 20–CERDIP CMOS	03285	AD7549BD
A12U10	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A12U11	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A12U12	1810–0535	1	NETWORK–RES 16–DIP 2.5K OHM X 8	09366	HC8253
A12U13	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A12U14	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A12U15	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A12U16	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A12U17	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A12U18	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A12U19	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A12U20	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A12U21	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A12U22	1820–2922	1	IC GATE CMOS/HC NAND QUAD 2–INP	02037	MC74HC00N
A12U23	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A12U24	1826–0962	1	IC OP AMP LOW–BIAS–H–IMPD DUAL 8 PIN	03406	LF412CN
A12U25	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A12U26	1826–0639	1	D/A 8–BIT 16–PLASTIC CMOS	03285	AD7524JN
A12U27	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A12U28	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A12U29	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A12VR2	1902–0962	1	DIODE–ZNR 15V 5% DO–35 PD=.4W TC=+.087%	02037	



NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

A12 SYTM Driver

08360-60012

NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

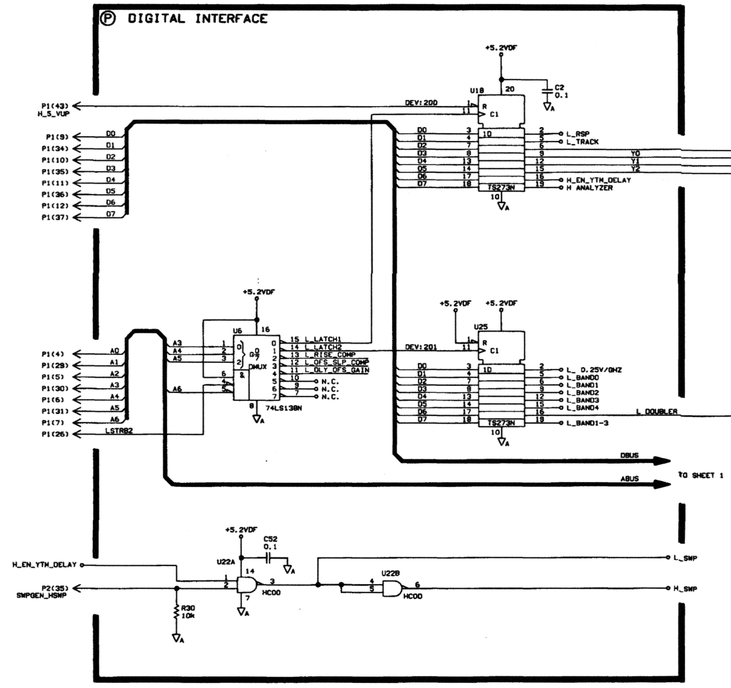
REFERENCE DESIGNATORS	
LAST USED	NOT USED
J1,C57,CR19,L6,P2 Q5,R102,S1,TP13, U29,VR2	C1,C10 C20-21,C28-31, C41-44,C47 CR7-9,CR13, L3, R14,R17, R80,R98,VR1

FROM SHEET 2
DBUS
ABUS

Ⓐ SLOW RISE TIME
Ⓑ DELAY COMPENSATION
Ⓒ VOLTAGE FOLLOWER SUBTRACTOR
Ⓓ TRACKING
Ⓔ COMPENSATION SUMMING AMP
Ⓕ KICK PULSE
Ⓖ LINEARITY COMPENSATION
Ⓗ INPUT BUFFER
Ⓘ ATTENUATOR
Ⓙ SAMPLE AND HOLD
Ⓚ OUTPUT AMPLIFIER
Ⓛ PHASE LOCK TRACKING

A12 SYTM Driver
08360-60012
(SHEET 1 of 2)

FUNCTION	DEVICE ADDRESS	RD	WR
AMUX & CONTROL LATCH	200		X
V/GHZ ATTENUATOR LATCH	201		X
RISETIME DAC	202		X
DRIVER OFFSET DAC	203		X
DRIVER SLOPE DAC	204		X
DELAY OFFSET DAC	205		X
DELAY GAIN DAC	206		X



A12 SYTM Driver
08360-60012
(SHEET 2 of 2)

HEWLETT PACKARD

HP 8360 Series Synthesized Sweepers
Component Level Repair
Assemblies A12 through A22

Service Guide

HP 8360 SERIES
SYNTHESIZED SWEEPERS
Component Level Repair
Service Guide

Asssemblies A12 through A22

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MANUAL PART NO. 08360-90077

Printed: MAY 1992

HEWLETT PACKARD

General Information

The primary repair strategy for the HP 8360 series of microwave synthesized sweep generators is assembly level repair. It is fully documented in the HP 8360 series Operating and Service manual set (p/n 08360-90076) and does not include this component level package. This package is intended to provide assistance in repairing assemblies which may be relatively expensive to replace or difficult to obtain in a timely manner, and where the problem is a simple one to repair.

This component level package is a collection of individual assembly schematic packages. Each unique package (as designated by the unique assembly part number) contains three items: 1) a parts list; 2) a parts location diagram; and 3) the unique assemblies schematics.

Within the schematic package, there may be component value discrepancies between the parts lists and the schematic. In such cases, the accurate value, at the time of publication, is in the parts list.

This component level package contains information for the following assemblies:

Reference Designator	Description	Part Number
A1	Front Panel Keyboard Interface	08360-60001
A2	Source Module Interface Assembly	08360-60002
A3	Front Panel Processor Assembly	08360-60003
A4	Fractional N Assembly	08360-60010
A5	YO Phase Detector Assembly	08360-60009 08360-60209
A6	Sampler Assembly	08360-60007 08360-60214
A7	Reference Assembly	08360-60008 08360-60166
A8	Modulation Generator Assembly	08360-60166
A9	Pulse Assembly	08360-60005 08360-60152 08360-60188 08360-60205 08360-60232
A10	ALC Assembly	08360-60006 08360-60206 08360-60222
A11	FM Driver Assembly	08360-60011
A12	YTM Driver Assembly	08360-60012 08360-60212
A13	YO Driver Assembly	08360-60013 08360-60207 08360-60213

Reference Designator	Description	Part Number
A14	Sweep Generator Assembly	08360–60014
A15	CPU Assembly	08360–60015 08360–60215
A16	Post Regulator Assembly	08360–60016
A17	Rectifier & Filter Assembly	08360–60017
A18	Switching Regulator Assembly	08360–60018 08360–60198
A19	Rear Panel Interface Assembly	08360–60019
A20	RF Interface Assembly	08360–60004 08360–60187 08360–60223 08360–60241
A22	Motherboard Assembly	08360–60022 08360–60196

The remaining assemblies are microwave microcircuits and are not included in this package. These assemblies are supported to the assembly level repair strategy. Rebuilt–exchange for these assemblies is often available at a significantly reduced net–exchange price. Refer to the operating and service manual for more information.

Manufacturer's Code List (1 of 2)

00493	UNITED CHEMI-CON INC	COMPTON	CA 90220
00715	MICROTRAN CO INC	VALLEY STREAM	NY 11582
00779	NICHICON (AMERICA) CORP	SCHAUMBERG	IL 60195
01125	LEWIS SCREW CO	CHICAGO	IL 60609
01339	GETTIG ENGRG & MFG CO INC	SPRING MILLS	PA 16875
01380	AMP INC	HARRISBURG	PA 17111
01409	CROVEN CRYSTALS	WHITBY	L1N 5
01417	NEL FREQUENCY CONTROLS INC	BURLINGTON	WI 53105
01468	STETTNER & CO	LAUF	D-856
01607	ALLEN-BRADLEY CO INC	EL PASO	TX 79935
01698	TEXAS INSTRUMENTS INC	DALLAS	TX 75265
01850	AROMAT CORP	MOUNTAINSIDE	NJ 07092
01854	RCL ELECTRONICS INC	NORTHBROOK	IL 60062
01869	PULSE ENGINEERING INC	SAN DIEGO	CA 92111
01886	COILCRAFT INC	CARY	IL 60013
01963	NYLON MOLDING CORP	SPRINGFIELD	NJ 07081
02010	AVX CORP	GREAT NECK	NY 11021
02037	MOTOROLA INC	ROSELLE	IL 60195
02121	LYN-TRON INC	BURBANK	CA 91505
02123	EG & G INC	WELLESLEY	MA 02181
02172	JEFFERS ELECTRONICS INC	NOGALES	AZ 85621
02180	PRECISION MONOLITHICS INC	SANTA CLARA	CA 95054
02210	MILTON ROSS CO	SOUTHHAMPTON	PA 18966
02367	CORNELL-DUBILIER/SANGAMO	WAYNE	NJ 07470
02392	C & K COMPONENTS INC	NEWTON	MA 02158
02408	DIXON INDUSTRIES CORPORATION	BRISTOL	RI 02809
02414	BURNDY CORP	NORWALK	CT 06856
02483	CTS CORP	ELKHART	IN 46514
02499	IRC INC	BOONE	NC 28607
02559	ALBANY PROD CO DIV OF PHEUMO DYN	NORWALK	CT 06850
02608	THERMALLOY INC	DALLAS	TX 75234
02685	LOBAUGH ROLLIN J	SOUTH SAN FRANC	CA 94080
02744	ELEC-TROL INC	SAUGUS	CA 91350
02805	COOPER INDUSTRIES INC	HOUSTON	TX 77210
02856	MOHAWK SPRING CO INC	ARLINGTON HEIGH	IL 60008
02883	SILICONIX INC	SANTA CLARA	CA 95054
02910	SIGNETICS CORP	SUNNYVALE	CA 94086
02923	CHOMERICS INC	WOBURN	MA 01801
02946	DUPONT E I DE NEMOURS & CO	WILMINGTON	DE 19801
02995	NORTH AMERICAN PHILIPS CORP	NEW YORK	NY 10017
03038	INTL RECTIFIER CORP	LOS ANGELES	CA 90069
03171	SOLITRON DEVICES INC	PALM BEACH	FL 33404
03273	GOWANDA ELECTRONICS CORP	GOWANDA	NY 14070
03285	ANALOG DEVICES INC	NORWOOD	MA 02062
03316	SPECIALTY CONNECTOR CO	FRANKLIN	IN 46131
03334	NV PHILIPS ELCOMA	EINDHOVEN	02876
03380	GRIES/DYNACAST CO DIV COATES-CLARK	NEW ROCHELLE	NY 10802
03406	NATIONAL SEMICONDUCTOR CORP	SANTA CLARA	CA 95052
03418	MOLEX INC	LISLE	IL 60532
03462	POSITRONIC INDUSTRIES INC	SPRINGFIELD	MO 65804
03627	SOLID STATE DEVICES INC	LA MIRADA	CA 90638
03724	BIVAR INC	SANTA ANA	CA 92705
03744	BOURNS NETWORKS INC	RIVERSIDE	CA 92507
03747	COLORADO CRYSTAL CORP	LOVELAND	CO 80537
03793	SILICON GENERAL INC	SAN JOSE	CA 95134
03799	HARRIS CORP	MELBOURNE	FL 32901
03811	INTEL CORP	SANTA CLARA	CA 95054
03981	PENN ENGINEERING & MFG CORP	DOYLESTOWN	PA 18901
04055	OVERLAND PRODUCTS CO	PHOENIX	AZ 68025
04200	SPRAGUE ELECTRIC CO	LEXINGTON	MA 02173
04225	THOMAS & BETTS CORP	RARITAN	NJ 08869

04486	ITT CORP	NEW YORK	NY 10022
04504	GENERAL INSTRUMENT CORP	CLIFTON	NJ 07012
04507	TRW INC	CLEVELAND	OH 44124
04567	ITT HARPER DIV	CHICAGO	IL 60606
04568	BECKMAN INDUSTRIAL CORP	FULLERTON	CA 92635
04703	LITTELFUSE INC	DES PLAINES	IL 60016
04726	3M CO	ST PAUL	MN 55144
04771	PHEOLL MFG CO DIV OF ALLIED PROD	CHICAGO	IL 60650
04805	ILLINOIS TOOL WORKS INC SHAKEPROOF	ELGIN	IL 60126
04939	SCHNITZER ALLOY PRODUCTS CO	ELIZABETH	NJ 07206
04990	GRAYHILL INC	LA GRANGE	IL 60525
05176	AMERICAN SHIZUKI CORP	CANOGA PARK	CA 91304
05447	BERGQUIST CO	MINNEAPOLIS	MN 55420
05518	AUGAT INC	MANSFIELD	MA 02048
05524	DALE ELECTRONICS INC	COLUMBUS	NE 68601
05610	CAMCAR SCREW & MFG CO	ROCKFORD	IL 61101
05769	ITT SEALECTRO CORP	TRUMBULL	CT 06611
05792	INTL ELECTRONIC RESEARCH CORP	BURBANK	CA 91502
05826	AMER PRCN IND INC DELEVAN DIV	AURORA	NY 14052
06118	ROEDERSTEIN/RESISTA GMBH	LANDSHUT	8300
06121	SIEMENS AG	MUNICH	8000
06127	WIMA	MANNHEIM	6800
06347	HITACHI LTD	CHIYODA-KU - TO	101
06352	TDK CORPORATION OF AMERICA	SKOKIE	IL 60076
06665	SAMTEC	NEW ALBANY	IN 47150
06691	HOUSE OF METRICS LTD	SPRING VALLEY	NY 10977
06784	MIDWEST COMPONENTS	MUSKEGON	MI 49443
07041	R.A.F. ELECTRONIC HARDWARE INC	STRATFORD	CT 06497
07179	AAVID ENGINEERING INC	LACONIA	NH 03247
07338	J K L COMPONENTS CORP	LOS ANGELES	CA 90064
07477	AMERICAN OIL & SUPPLY CO	NEWARK	NJ 07105
08123	COIL-Q CORP	BRONXVILLE	NY
08709	PANASONIC INDUSTRIAL CO	SECAUCUS	NJ 07094
08838	AND (ALPHA NUMERIC DISPLAYS)	BURLINGAME	CA
09366	HYCOMP, INC	MAYNARD	MA
09694	ELECTRONIC ESSENTIALS	WOODSIDE	NY
09939	MURATA ERIE NORTH AMERICA INC	SMYRNA	GA 30080
10572	XICOR, INC	MILPITAS	CA
10858	LINEAR TECHNOLOGY CORP	MILPITAS	CA 95035
11212	INDUCTOR SUPPLY, INC.	HUNTINGTON BCH	CA
11699	CENTRAL SEMICONDUCTOR CORP	HAUPPAUGE	NY 11788
11892	EVOX/RIFA INC	LINCOLNSHIRE	IL 60015
11946	BKC INTERNATIONAL ELECTRONICS	LAWRENCE	MA 01841
12186	DALLAS SEMICONDUCTOR CORP	DALLAS	TX 75244
12340	KEMET ELECTRONICS CORPORATION	GREENVILLE	SC 29606
12384	MOLKENBUHR ENTERPRISES INC	SUNNYVALE	CA 94086
12404	XILINX INC	SAN JOSE	CA 95124
12703	CHAMPION TECHNOLOGIES INC	FRANKLIN PARK	IL 60131
12830	KETEMA	BENSALEM	PA 19020
28480	HEWLETT-PACKARD CO CORP HQ	PALO ALTO	CA 94304

Schematic Package for 08360-60212 A12 Multiplier/Filter Driver

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Replaceable Parts List for A12 Multiplier/Filter Driver Assembly, Part Number 08360–60212 (1 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A12	08360–60212	1	BD AY–2X1BALL DR	28480	08360–60212
A12C1	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C2	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C3	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C4	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C5	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C6	0160–4386	1	CAP–FXD 33pF ±5% 200 V CER C0G	09939	RPE121–105C0G330J200V
A12C7	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C9	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C10	0160–3878	1	CAP–FXD 1000pF ±20% 100 V CER X7R	02010	SR201C102MAAH
A12C11	0160–4386	1	CAP–FXD 33pF ±5% 200 V CER C0G	09939	RPE121–105C0G330J200V
A12C12	0160–4386	1	CAP–FXD 33pF ±5% 200 V CER C0G	09939	RPE121–105C0G330J200V
A12C13	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C14	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C15	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C16	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C17	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C18	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A12C19	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A12C20	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C21	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C22	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C23	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C24	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C25	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C26	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C27	0160–4386	1	CAP–FXD 33pF ±5% 200 V CER C0G	09939	RPE121–105C0G330J200V
A12C28	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C29	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C30	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C31	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C32	0160–3877	1	CAP–FXD 100pF ±20% 200 V CER X7R	02010	SR202C101MAAH
A12C33	0160–0155	1	CAP–FXD 3300pF ±10% 200 V POLYE–FL	05176	HEW238T
A12C34	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C35	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C36	0160–4386	1	CAP–FXD 33pF ±5% 200 V CER C0G	09939	RPE121–105C0G330J200V
A12C37	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A12C38	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C39	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C40	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C41	0160–3878	1	CAP–FXD 1000pF ±20% 100 V CER X7R	02010	SR201C102MAAH
A12C42	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C43	0160–4386	1	CAP–FXD 33pF ±5% 200 V CER C0G	09939	RPE121–105C0G330J200V
A12C44	0160–4386	1	CAP–FXD 33pF ±5% 200 V CER C0G	09939	RPE121–105C0G330J200V
A12C46	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C50	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1

Replaceable Parts List for A12 Multiplier/Filter Driver Assembly, Part Number 08360–60212 (2 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A12C51	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A12C52	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A12C53	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1
A12C54	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A12C55	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1
A12C56	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C57	0160–4084	1	CAP–FXD 0.1uF ±20% 50 V CER X7R	02010	SR215C104MAAH
A12C58	0160–4389	1	CAP–FXD 100pF ±5% 200 V CER C0G	02010	SR202A101JAAH
A12CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR4	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR13	1901–0376	1	DIODE–GEN PRP 35V 50MA DO–35	00046	S303
A12CR14	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR15	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR16	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR17	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR18	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR19	1901–0376	1	DIODE–GEN PRP 35V 50MA DO–35	00046	S303
A12CR20	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12CR21	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A12J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A12L1	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A12L2	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A12L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A12L5	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A12L6	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A12MP2	0403–0630	1	EXTR–PC BD BRN NYL .062–IN–BD–THKNS	02123	91–2–BROWN–9
A12MP3	0403–0627	1	EXTR–PC BD RED NYL .062–IN–BD–THKNS	02123	91–2–RED–1
A12MP4	0340–1180	2	INSULATOR–XSTR THRM–CNDCT	05447	K4–06
A12MP5	1200–0147	4	INSULATOR–FLG–BSHG NYLON	03380	974–302
A12MP6	08360–20112	2	HEAT SINK		
A12MP7	1200–0081	2	INSULATOR–FLG–BSHG NYLON	03380	974 307
A12MP8	0535–0031	6	NUT–HEX W/LKWR M3 X 0.5 2.4MM–THK	06691	
A12MP9	0570–0639	6	STD–PRS–IN M3 X 0.5 12.000 PH–BRZ	03981	KFH–M3–12–ET
A12MP10	1205–0011	4	HEAT SINK TO–5/TO–39–CS	05792	TXBF–032–025B
A12MP11	1200–0173	4	INSULATOR–XSTR DAP–GL	02210	A–10001 DAP

Replaceable Parts List for A12 Multiplier/Filter Driver Assembly, Part Number 08360–60212 (3 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A12MP12	0515–0658	16	SCREW–MACHINE ASSEMBLY M2 X 0.4 6MM–LG	05610	
A12P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A12P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A12Q1	1855–0527	1	TRANSISTOR MOSFET P–CHAN E–MODE TO–3 SI	02037	MTM2P50
A12Q2	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A12Q3	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A12Q4	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A12Q5	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A12Q6	1855–0527	1	TRANSISTOR MOSFET P–CHAN E–MODE TO–3 SI	02037	MTM2P50
A12Q7	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A12Q8	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A12R1	0698–7260	1	RESISTOR 10K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R2	0698–7243	1	RESISTOR 1.96K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R3	0698–7243	1	RESISTOR 1.96K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R4	0698–7260	1	RESISTOR 10K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R6	0698–7272	1	RESISTOR 31.6K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R7	0698–7272	1	RESISTOR 31.6K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R8	0698–7260	1	RESISTOR 10K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R9	0698–7267	1	RESISTOR 19.6K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R10	0698–7267	1	RESISTOR 19.6K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R11	0698–7260	1	RESISTOR 10K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R12	0698–7260	1	RESISTOR 10K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R13	0698–7277	1	RESISTOR 51.1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R14	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R15	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R16	0698–6977	1	RESISTOR 30K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R17	0698–7260	1	RESISTOR 10K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R18	0698–7267	1	RESISTOR 19.6K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R19	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R20	0698–7240	1	RESISTOR 1.47K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R21	0698–7229	1	RESISTOR 511 ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R22	0698–7250	1	RESISTOR 3.83K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R23	2100–3350	1	RESISTOR–TRMR 200 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–201
A12R24	2100–3350	1	RESISTOR–TRMR 200 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–201
A12R25	2100–0544	1	RESISTOR–TRMR 100K 10% TKF SIDE–ADJ	04568	67XR
A12R26	2100–3611	1	RESISTOR–TRMR 50K 10% TKF SIDE–ADJ	04568	67XR
A12R27	2100–0670	1	RESISTOR–TRMR 10K 10% TKF SIDE–ADJ	04568	67XR
A12R28	0698–7260	1	RESISTOR 10K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R29	0698–7236	1	RESISTOR 1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R30	0698–7260	1	RESISTOR 10K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R31	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R32	0698–6627	1	RESISTOR 25K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R33	0757–0460	1	RESISTOR 61.9K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R34	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R35	0698–6363	1	RESISTOR 40K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9

Replaceable Parts List for A12 Multiplier/Filter Driver Assembly, Part Number 08360–60212 (4 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A12R36	0698–6627	1	RESISTOR 25K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R37	0698–0089	1	RESISTOR 1.78K ±1% .5W TF TC=0±100	05524	CMF–65–2
A12R38	0757–0159	1	RESISTOR 1K ±1% .5W TF TC=0±100	05524	CMF–65–2
A12R39	0698–7252	1	RESISTOR 4.64K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R40	0698–7236	1	RESISTOR 1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R41	0757–0428	1	RESISTOR 1.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R42	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R43	0698–7257	1	RESISTOR 7.5K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R44	0698–3396	1	RESISTOR 38.3 ±1% .5W TF TC=0±100	05524	CMF–65–2
A12R45	0698–7236	1	RESISTOR 1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R46	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R47	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R48	0698–6363	1	RESISTOR 40K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R49	0698–6363	1	RESISTOR 40K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R50	0698–6363	1	RESISTOR 40K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R51	0698–6377	1	RESISTOR 200 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R52	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R53	0698–6355	1	RESISTOR 400 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R54	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R55	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R56	0698–7253	1	RESISTOR 5.11K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R57	0698–7243	1	RESISTOR 1.96K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R58	0698–7221	1	RESISTOR 237 ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R59	0698–0085	1	RESISTOR 2.61K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R60	0698–3443	1	RESISTOR 287 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R61	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R62	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R63	0698–6363	1	RESISTOR 40K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R64	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R65	0698–6363	1	RESISTOR 40K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R66	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R67	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R68	0698–7246	1	RESISTOR 2.61K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R69	2100–0670	1	RESISTOR–TRMR 10K 10% TKF SIDE–ADJ	04568	67XR
A12R70	0698–7212	1	RESISTOR 100 ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R71	0811–3763	1	RESISTOR 45 ±1% 12W PWI TC=0±2	01854	R3200–3
A12R72	0811–3763	1	RESISTOR 45 ±1% 12W PWI TC=0±2	01854	R3200–3
A12R73	0811–3763	1	RESISTOR 45 ±1% 12W PWI TC=0±2	01854	R3200–3
A12R74	0811–3761	1	RESISTOR 3 ±1% 12W PWI TC=0±5	01854	R3200–1
A12R75	0698–7267	1	RESISTOR 19.6K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R76	0698–7251	1	RESISTOR 4.22K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R77	0698–7274	1	RESISTOR 38.3K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R78	0698–6363	1	RESISTOR 40K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R79	0698–6363	1	RESISTOR 40K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R80	0698–7267	1	RESISTOR 19.6K ±1% .05W TF TC=0±100	05524	CMF–50–2

Replaceable Parts List for A12 Multiplier/Filter Driver Assembly, Part Number 08360–60212 (5 of 7)

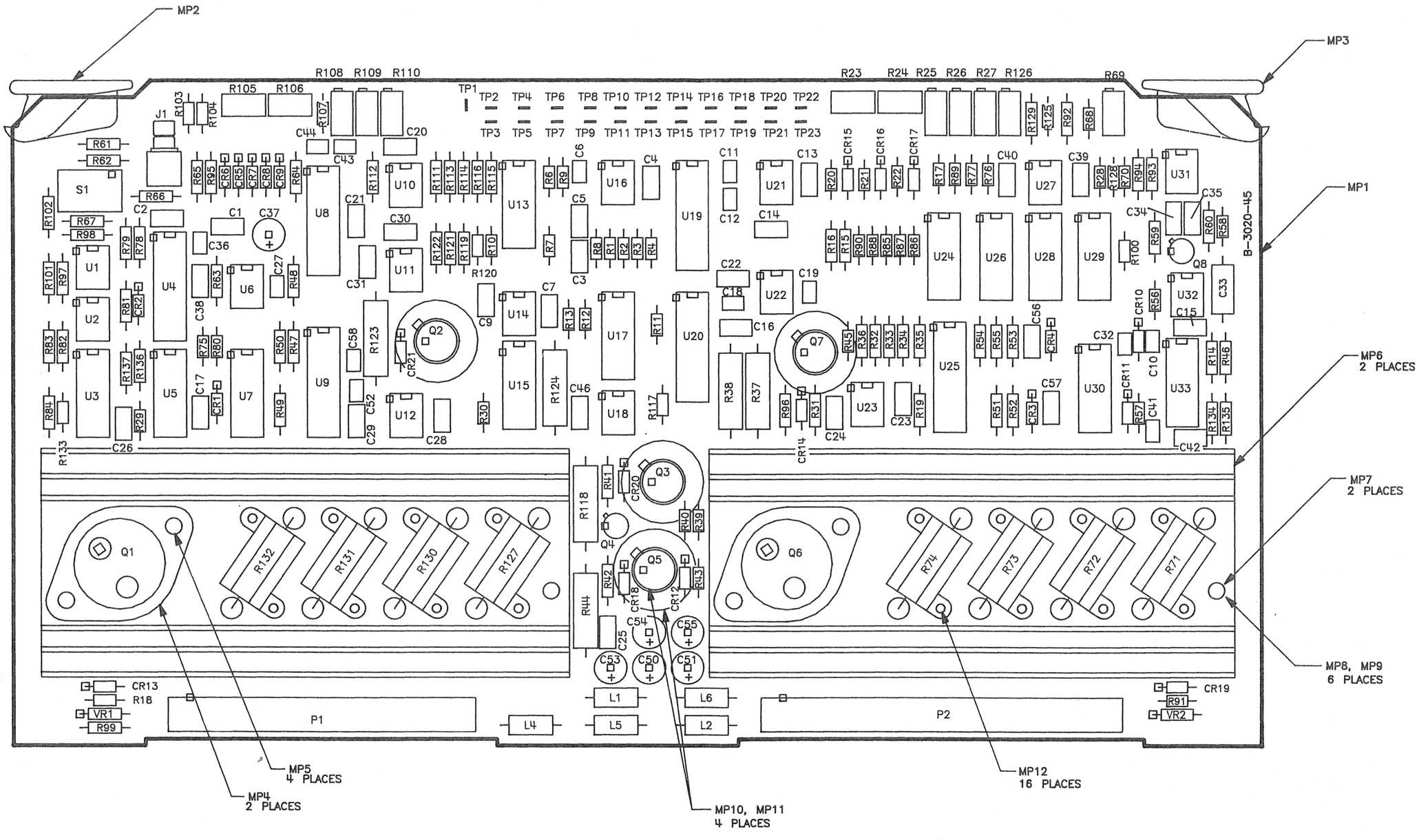
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A12R81	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R82	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R83	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R84	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R85	0698–7236	1	RESISTOR 1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R86	0698–7236	1	RESISTOR 1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R87	0698–7236	1	RESISTOR 1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R88	0698–7236	1	RESISTOR 1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R89	0698–7284	1	RESISTOR 100K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R90	0698–7284	1	RESISTOR 100K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R91	0698–7267	1	RESISTOR 19.6K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R92	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R93	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R94	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R95	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R96	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R97	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R98	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R99	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R100	0698–7246	1	RESISTOR 2.61K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R101	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R102	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R103	0698–7240	1	RESISTOR 1.47K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R104	0698–7229	1	RESISTOR 511 ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R105	2100–3350	1	RESISTOR–TRMR 200 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–201
A12R106	2100–3350	1	RESISTOR–TRMR 200 10% TKF SIDE–ADJ 1–TRN	03744	3386X–Y46–201
A12R107	0698–7250	1	RESISTOR 3.83K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R108	2100–0544	1	RESISTOR–TRMR 100K 10% TKF SIDE–ADJ	04568	67XR
A12R109	2100–3611	1	RESISTOR–TRMR 50K 10% TKF SIDE–ADJ	04568	67XR
A12R110	2100–0670	1	RESISTOR–TRMR 10K 10% TKF SIDE–ADJ	04568	67XR
A12R111	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R112	0698–6977	1	RESISTOR 30K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R113	0698–6363	1	RESISTOR 40K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R114	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R115	0757–0460	1	RESISTOR 61.9K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R116	0698–6627	1	RESISTOR 25K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R117	0698–7257	1	RESISTOR 7.5K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R118	0698–3396	1	RESISTOR 38.3 ±1% .5W TF TC=0±100	05524	CMF–65–2
A12R119	0698–6627	1	RESISTOR 25K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R120	0698–7236	1	RESISTOR 1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R121	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R122	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R123	0698–0089	1	RESISTOR 1.78K ±1% .5W TF TC=0±100	05524	CMF–65–2
A12R124	0757–0159	1	RESISTOR 1K ±1% .5W TF TC=0±100	05524	CMF–65–2
A12R125	0698–7246	1	RESISTOR 2.61K ±1% .05W TF TC=0±100	05524	CMF–50–2

Replaceable Parts List for A12 Multiplier/Filter Driver Assembly, Part Number 08360–60212 (6 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A12R126	2100–0670	1	RESISTOR–TRMR 10K 10% TKF SIDE–ADJ	04568	67XR
A12R127	0811–3761	1	RESISTOR 3 ±1% 12W PWI TC=0±5	01854	R3200–1
A12R128	0698–7212	1	RESISTOR 100 ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R129	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R130	0811–3763	1	RESISTOR 45 ±1% 12W PWI TC=0±2	01854	R3200–3
A12R131	0811–3763	1	RESISTOR 45 ±1% 12W PWI TC=0±2	01854	R3200–3
A12R132	0811–3763	1	RESISTOR 45 ±1% 12W PWI TC=0±2	01854	R3200–3
A12R133	0698–7236	1	RESISTOR 1K ±1% .05W TF TC=0±100	05524	CMF–50–2
A12R134	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R135	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A12R136	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12R137	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A12S1	3101–2340	1	SWITCH–DIP RKR 5–1A 0.05A 30VDC	04990	76PSB05S
A12TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP11	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP12	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP13	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP14	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP15	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP16	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP17	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP18	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP19	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP20	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP21	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP22	1460–2201	1	SPRING RADIAL TEST POINT		
A12TP23	1460–2201	1	SPRING RADIAL TEST POINT		
A12U1	1826–1436	1	IC OP AMP PRCN DUAL 8 PIN DIP–C	10858	LT1013ACJ8
A12U2	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A12U3	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A12U4	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A12U5	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A12U6	1826–1436	1	IC OP AMP PRCN DUAL 8 PIN DIP–C	10858	LT1013ACJ8
A12U7	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A12U8	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A12U9	1826–1443	1	D/A 12–DGT 20–CERDIP CMOS	03285	AD7549BD

Replaceable Parts List for A12 Multiplier/Filter Driver Assembly, Part Number 08360–60212 (7 of 7)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A12U10	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A12U11	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A12U12	1826–1436	1	IC OP AMP PRCN DUAL 8 PIN DIP–C	10858	LT1013ACJ8
A12U13	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A12U14	1826–1436	1	IC OP AMP PRCN DUAL 8 PIN DIP–C	10858	LT1013ACJ8
A12U15	1820–2922	1	IC GATE CMOS/HC NAND QUAD 2–INP	02037	MC74HC00N
A12U16	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A12U17	1826–0639	1	D/A 8–BIT 16–PLASTIC CMOS	03285	AD7524JN
A12U18	1826–1436	1	IC OP AMP PRCN DUAL 8 PIN DIP–C	10858	LT1013ACJ8
A12U19	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A12U20	1826–1443	1	D/A 12–DGT 20–CERDIP CMOS	03285	AD7549BD
A12U21	1826–1128	1	IC OP AMP PRCN DUAL 8 PIN DIP–P	03406	LF412ACN
A12U22	1826–1436	1	IC OP AMP PRCN DUAL 8 PIN DIP–C	10858	LT1013ACJ8
A12U23	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A12U24	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A12U25	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A12U26	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A12U27	1826–1436	1	IC OP AMP PRCN DUAL 8 PIN DIP–C	10858	LT1013ACJ8
A12U28	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A12U29	1810–0535	1	NETWORK–RES 16–DIP 2.5K OHM X 8	09366	HC8253
A12U30	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A12U31	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A12U32	1826–1436	1	IC OP AMP PRCN DUAL 8 PIN DIP–C	10858	LT1013ACJ8
A12U33	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A12VR1	1902–0962	1	DIODE–ZNR 15V 5% DO–35 PD=.4W TC=+.087%	02037	
A12VR2	1902–0962	1	DIODE–ZNR 15V 5% DO–35 PD=.4W TC=+.087%	02037	

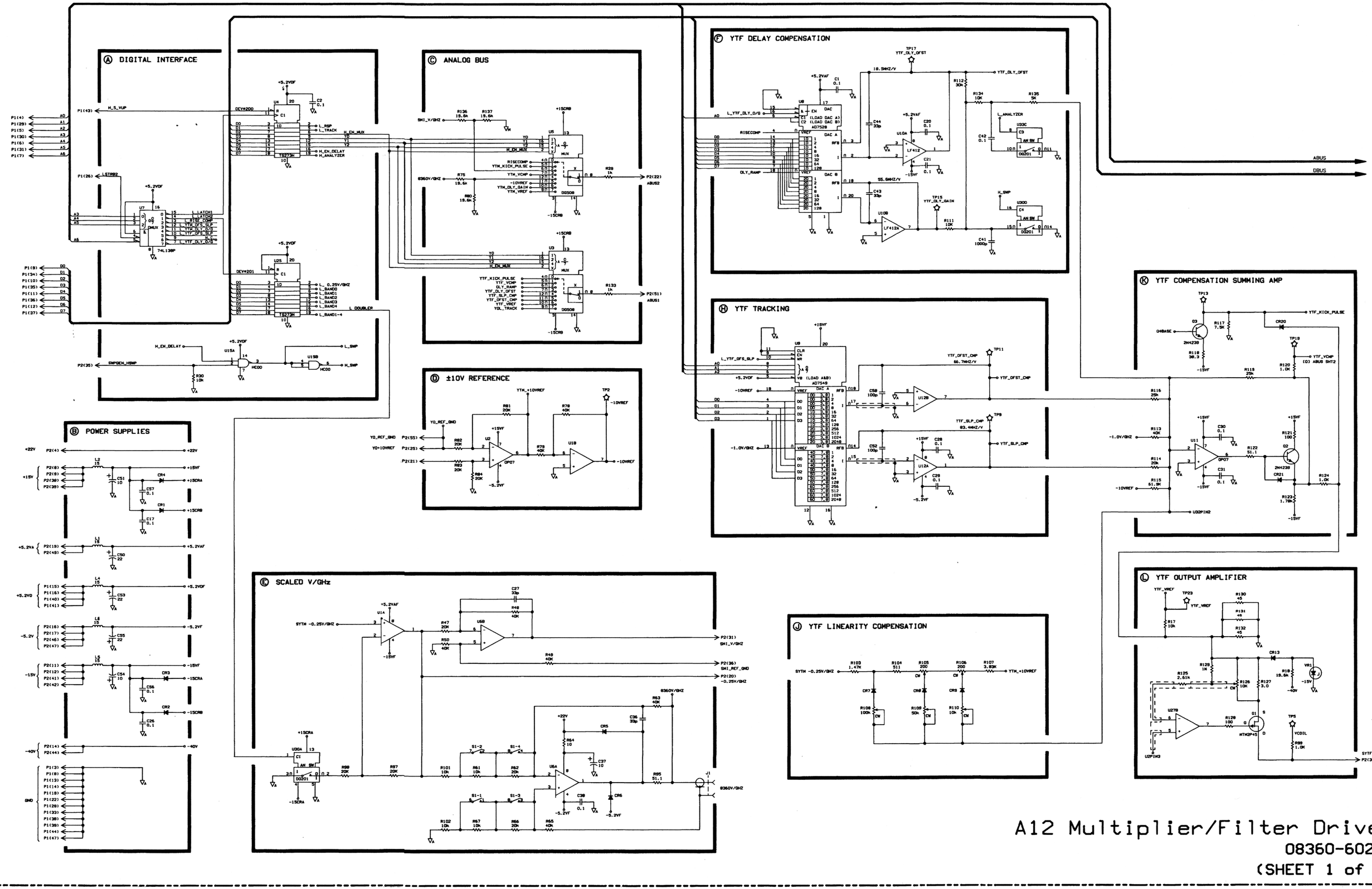


NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

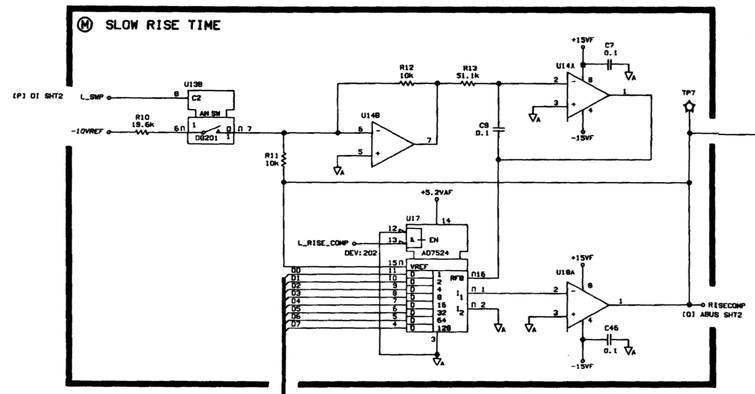
HEWLETT PACKARD

A12 Multiplier/ Filter Driver

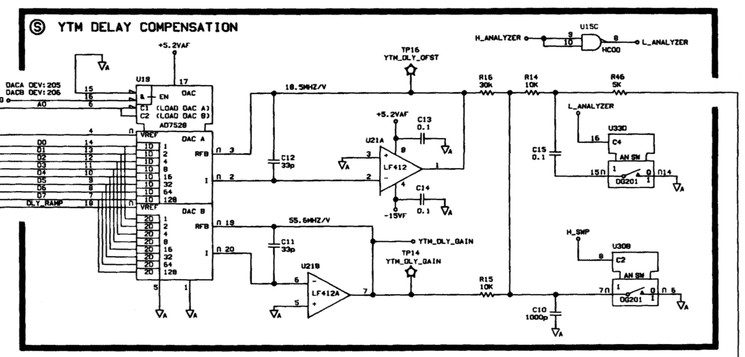
08360-60213


Ⓐ DIGITAL INTERFACE
Ⓒ ANALOG BUS
Ⓕ YTF DELAY COMPENSATION
Ⓗ YTF TRACKING
Ⓚ YTF COMPENSATION SUMMING AMP
Ⓑ POWER SUPPLIES
Ⓓ ±10V REFERENCE
Ⓔ SCALED V/GHz
Ⓙ YTF LINEARITY COMPENSATION
Ⓛ YTF OUTPUT AMPLIFIER
ABUS
DBUS
A12 Multiplier/Filter Driver
08360-60212
(SHEET 1 of 2)

Ⓜ SLOW RISE TIME



Ⓢ YTM DELAY COMPENSATION



NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

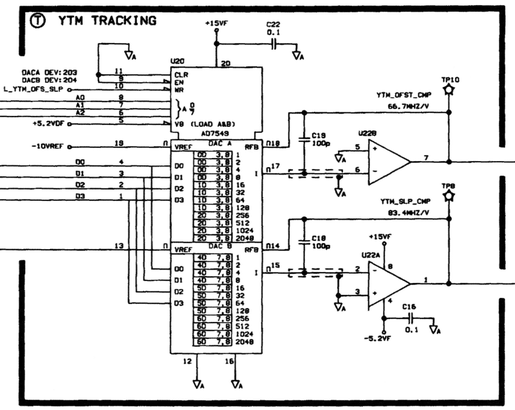
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LAST USED	NOT USED
C58	C8,10,15,41,42 C45,47-48
CR21	
J1	
L5	L3
P2	
Q8	
R132	R14,46
S1	
TP23	
U32	
VR2	

FUNCTION	DEVICE ADDRESS	RD	WR
AMUX & CONTROL LATCH	200		X
V/GHZ ATTENUATOR LATCH	201		X
RISETIME DAC	202		X
DRIVER OFFSET DAC	203		X
DRIVER SLOPE DAC	204		X
DELAY OFFSET DAC	205		X
DELAY GAIN DAC	206		X

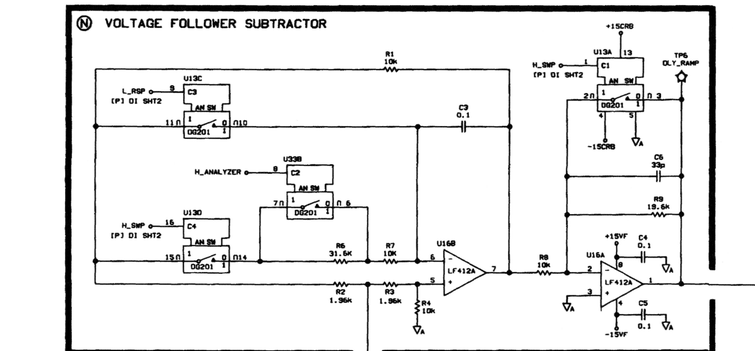
DBUS

ABUS

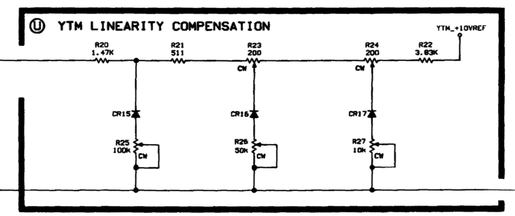
Ⓣ YTM TRACKING



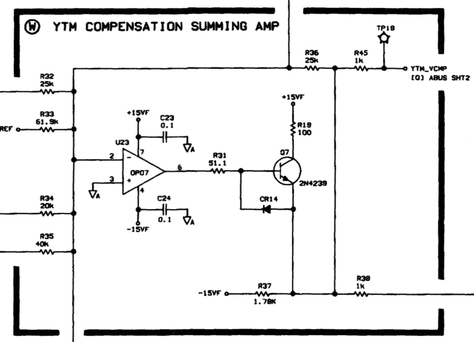
Ⓝ VOLTAGE FOLLOWER SUBTRACTOR



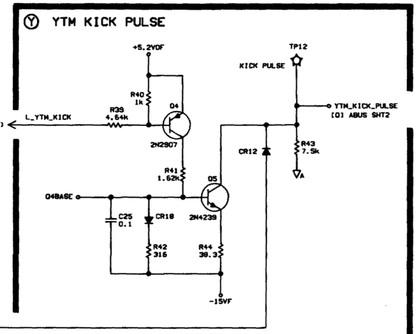
Ⓤ YTM LINEARITY COMPENSATION



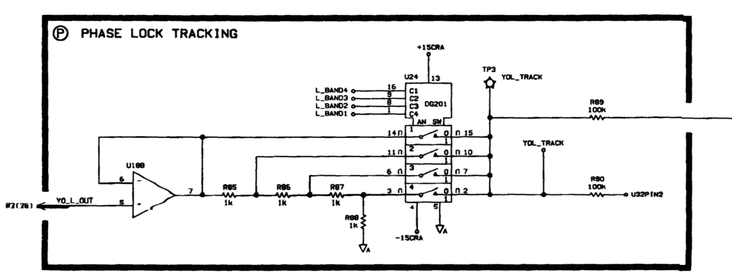
Ⓦ YTM COMPENSATION SUMMING AMP



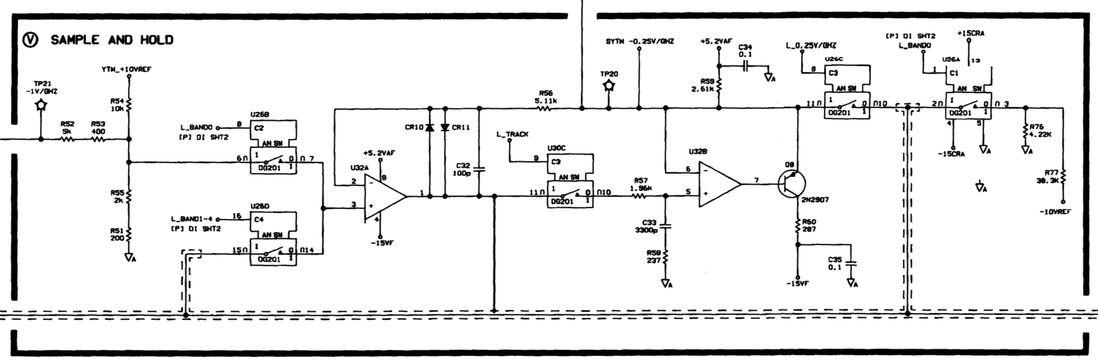
Ⓨ YTM KICK PULSE



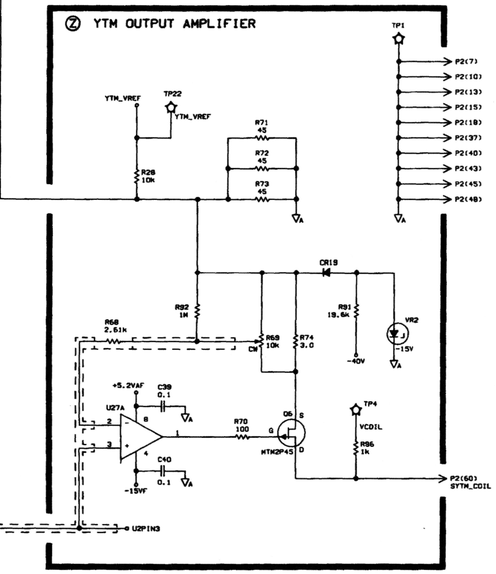
Ⓟ PHASE LOCK TRACKING



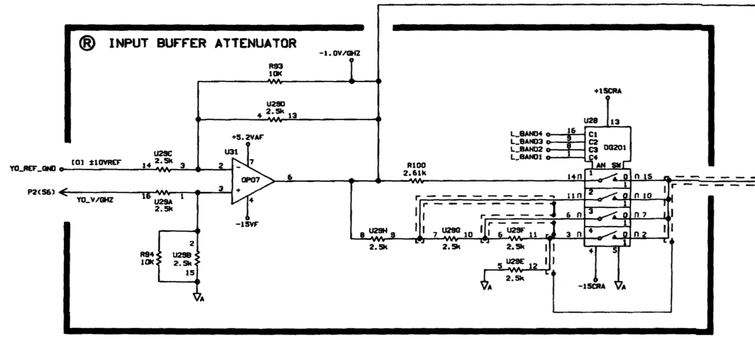
Ⓥ SAMPLE AND HOLD



Ⓩ YTM OUTPUT AMPLIFIER



Ⓡ INPUT BUFFER ATTENUATOR



A12 Multiplier/Filter Driver

08360-60212

(SHEET 2 of 2)

Schematic Package for 08360-60013 A13 YO Driver Assembly

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HEWLETT PACKARD

Replaceable Parts List for A13 YO Driver Assembly, Part Number 08360–60013 (1 of 5)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13	08360–60013	1	BD AY–YO DRIVER	28480	08360–60207
A13C2	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10C0G330J100
A13C3	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10C0G330J100
A13C4	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C5	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C6	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C7	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C8	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C9	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C10	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C11	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C12	0160–3742	1	CAP–FXD 1uF ±5% 50 V POLYC–MET	05176	HEW–576
A13C15	0160–5098	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	09939	RPA40X7R224K50V
A13C16	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C17	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C18	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10C0G330J100
A13C19	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C20	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C22	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C23	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10C0G330J100
A13C24	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10C0G330J100
A13C27	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A13C28	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A13C29	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A13C30	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C31	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	09939	RPA20C0G102J100V
A13C32	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C33	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	09939	RPA20C0G102J100V
A13C34	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A13C35	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A13C40	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	09939	RPA10C0G101J100V
A13C41	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	09939	RPA10C0G100D100
A13C42	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	09939	RPA20C0G102J100V
A13C44	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C45	0160–3742	1	CAP–FXD 1uF ±5% 50 V POLYC–MET	05176	HEW–576
A13C46	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C47	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C48	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X9015B2–DYS
A13C49	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X9015B2–DYS
A13C50	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A13C51	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A13C52	0180–3143	1	CAP–FXD 3.3uF ±10% 75 V TA	04200	150D335X9075B2
A13C57	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10C0G330J100
A13C58	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10C0G330J100
A13C62	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C66	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT

Replaceable Parts List for A13 YO Driver Assembly, Part Number 08360–60013 (2 of 5)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13C67	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR13	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR14	1901–0376	1	DIODE–GEN PRP 200MA DO–35	03406	FDH5323.03
A13CR15	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13L1	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03706	21501M–5%
A13L2	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03706	21501M–5%
A13L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03706	21501M–5%
A13L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03706	21501M–5%
A13L5	9100–3313	1	INDUCTOR RF–CH–MLD 22UH ±5%	03706	22201M–5%
A13MP2	1205–0011	1	HEAT SINK TO–5/TO–39–CS	05792	TXBF–032–025B
A13MP3	08360–20033	1	HEAT SINK		
A13MP4	0535–0031	3	NUT–HEX W/LKWR M3 X 0.5 2.4MM–THK	06691	
A13MP5	0570–0639	3	STD–PRS–IN M3 X 0.5 12.000 PH–BRZ	03981	KFH–M3–12–ET
A13MP6	1200–0147	2	INSULATOR–FLG–BSHG NYLON	03380	974–302
A13MP7	1200–0081	1	INSULATOR–FLG–BSHG NYLON	03380	974 307
A13MP8	1200–0173	1	INSULATOR–XSTR DAP–GL	02210	A–10001 DAP
A13MP9	0515–0658	4	SCREW–MACHINE ASSEMBLY M2 X 0.4 6MM–LG	05610	
A13MP10	0340–1180	1	INSULATOR–XSTR THRM–CNDCT	05447	K4–06
A13MP11	0403–0630	1	EXTR–PC BD BRN NYL .062–IN–BD–THKNS	02123	91–2–BROWN–9
A13MP12	0403–0628	1	EXTR–PC BD ORN NYL .062–IN–BD–THKNS	02123	91–2–ORANGE–6
A13P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A13P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A13Q1	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A13Q2	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A13Q3	1854–1109	1	TRANSISTOR–DUAL NPN TO–78 PD=500MW	02180	MAT–02FH
A13Q4	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A13Q5	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A13Q6	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A13Q7	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A13Q8	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A13Q9	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A13Q10	1855–0527	1	TRANSISTOR MOSFET P–CHAN E–MODE TO–3 SI	02037	MTM2P50
A13R1	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R2	0698–6323	1	RESISTOR 100 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R5	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R6	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R7	0757–0428	1	RESISTOR 1.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R8	0757–0403	1	RESISTOR 121 ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A13 YO Driver Assembly, Part Number 08360–60013 (3 of 5)

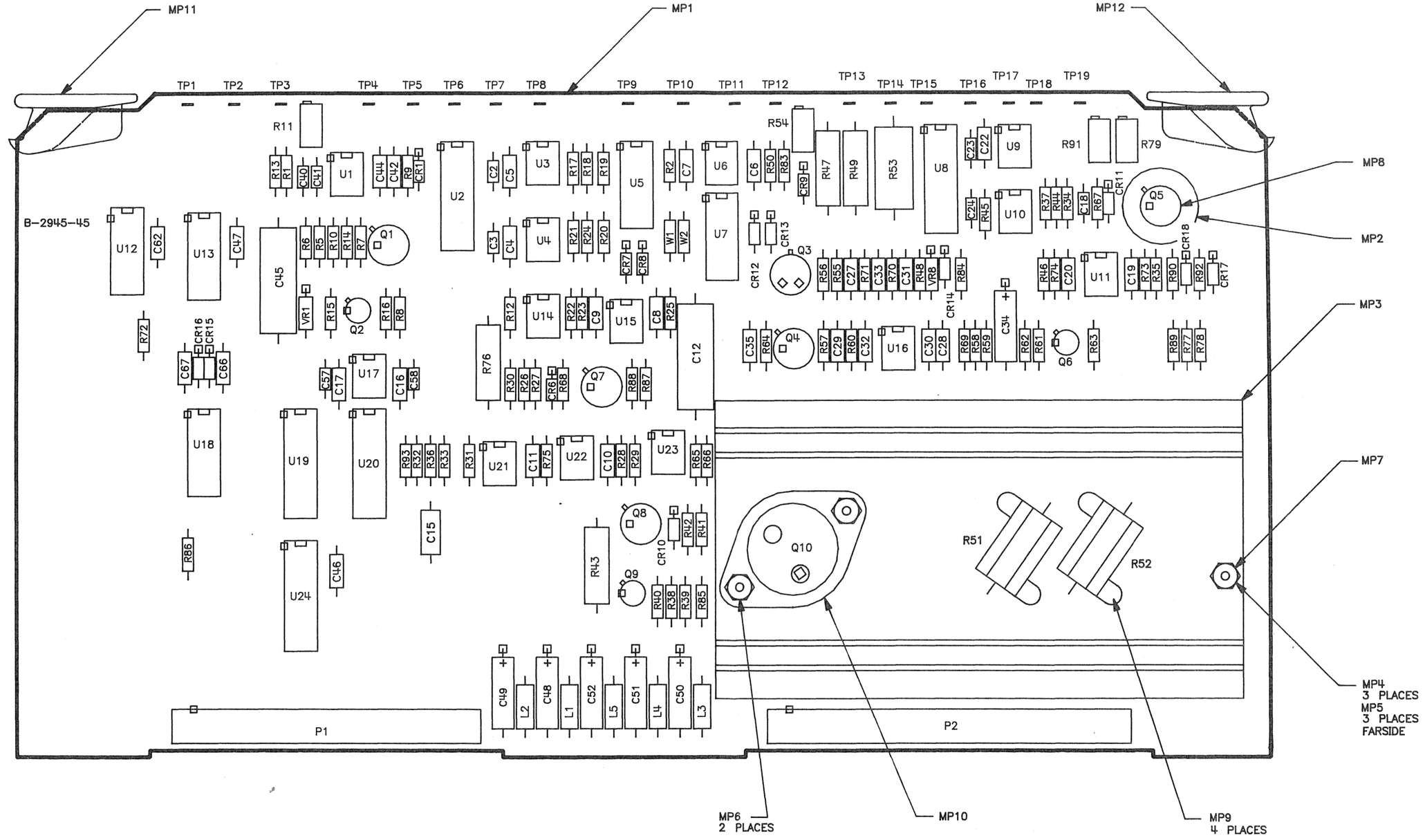
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13R9	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R10	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R11	2100–3732	1	RESISTOR–TRMR 500 10% TKF SIDE–ADJ	04568	67XR
A13R12	0757–0428	1	RESISTOR 1.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R13	0698–6631	1	RESISTOR 2.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R14	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R15	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R16	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R17	0698–6614	1	RESISTOR 7.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R18	0698–6631	1	RESISTOR 2.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R19	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R20	0698–6782	1	RESISTOR 250 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R21	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R22	0698–6322	1	RESISTOR 4K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R23	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R24	0698–6322	1	RESISTOR 4K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R25	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R26	0757–0123	1	RESISTOR 34.8K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R27	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R28	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R29	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R30	0698–6322	1	RESISTOR 4K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R31	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R32	0757–0288	1	RESISTOR 9.09K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R33	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R34	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R35	0757–0403	1	RESISTOR 121 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R36	0698–3158	1	RESISTOR 23.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R37	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R38	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R39	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R40	0757–0428	1	RESISTOR 1.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R41	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R42	0698–3445	1	RESISTOR 348 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R43	0757–1002	1	RESISTOR 61.9 ±1% .5W TF TC=0±100	05524	CMF–65–2
A13R44	0757–0464	1	RESISTOR 90.9K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R45	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R46	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R47	0757–0820	1	RESISTOR 1.1K ±1% .5W TF TC=0±100	05524	CMF–65–2
A13R48	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R49	0757–0820	1	RESISTOR 1.1K ±1% .5W TF TC=0±100	05524	CMF–65–2
A13R50	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R51	0811–3762	1	RESISTOR 100 ±1% 12W PWI TC=0±2	01854	R3200–2
A13R52	0811–3762	1	RESISTOR 100 ±1% 12W PWI TC=0±2	01854	R3200–2
A13R53	0811–2935	1	RESISTOR 7.5 ±0.01% .5W PN TC=0±5	01854	R348

Replaceable Parts List for A13 YO Driver Assembly, Part Number 08360–60013 (4 of 5)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13R54	2100–3755	1	RESISTOR–TRMR 50 10% TKF SIDE–ADJ 17–TRN	04568	67XR
A13R55	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R56	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R57	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R58	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R59	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R60	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R61	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R62	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R63	0757–0428	1	RESISTOR 1.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R64	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R65	0757–0123	1	RESISTOR 34.8K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R66	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R67	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R68	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R69	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R70	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R71	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R72	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R73	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R74	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R75	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R76	0757–0158	1	RESISTOR 619 ±1% .5W TF TC=0±100	05524	CMF–65–2
A13R77	0698–6348	1	RESISTOR 3K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R78	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R79	2100–3753	1	RESISTOR–TRMR 200K 10% TKF SIDE–ADJ	04568	67XR
A13R83	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R84	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R85	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R86	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R87	0698–6322	1	RESISTOR 4K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R88	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R89	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R90	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R91	2100–3754	1	RESISTOR–TRMR 1M 10% TKF SIDE–ADJ 17–TRN	04568	67XR
A13R92	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R93	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP9	1460–2201	1	SPRING RADIAL TEST POINT		

Replaceable Parts List for A13 YO Driver Assembly, Part Number 08360–60013 (5 of 5)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP11	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP12	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP13	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP14	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP15	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP16	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP17	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP18	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP19	1460–2201	1	SPRING RADIAL TEST POINT		
A13U1	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U2	1826–1443	1	D/A 12–DGT 20–CERDIP CMOS	03285	AD7549BD
A13U3	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U4	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A13U5	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A13U6	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U7	1826–1824	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG411DJ
A13U8	1826–1443	1	D/A 12–DGT 20–CERDIP CMOS	03285	AD7549BD
A13U9	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	10858	OP–07CJ8
A13U10	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	10858	OP–07CJ8
A13U11	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U12	1820–2922	1	IC GATE CMOS/HC NAND QUAD 2–INP	02037	MC74HC00N
A13U13	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138AN
A13U14	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U15	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U16	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U17	1826–0962	1	IC OP AMP LOW–BIAS–H–IMPD DUAL 8 PIN	03406	LF412CN
A13U18	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A13U19	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A13U20	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A13U21	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	10858	OP–07CJ8
A13U12	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U23	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	10858	OP–07CJ8
A13U24	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A13VR1	1902–0625	1	DIODE–ZNR 1N829 6.2V 5% DO–35 PD=.4W	02037	1N829
A13VR2	1902–0244	1	DIODE–ZNR 30V 5% PD=1W IR=5UA	02037	1N4751ARL
A13VR3	1902–0962	1	DIODE–ZNR 15V 5% DO–35 PD=.4W TC=+.087%	02037	SZ30035–2
A13W1	8159–0005	1	RESISTOR 0 CWM	01339	L–2007–1
A13W2	8159–0005	1	RESISTOR 0 CWM	01339	L–2007–1

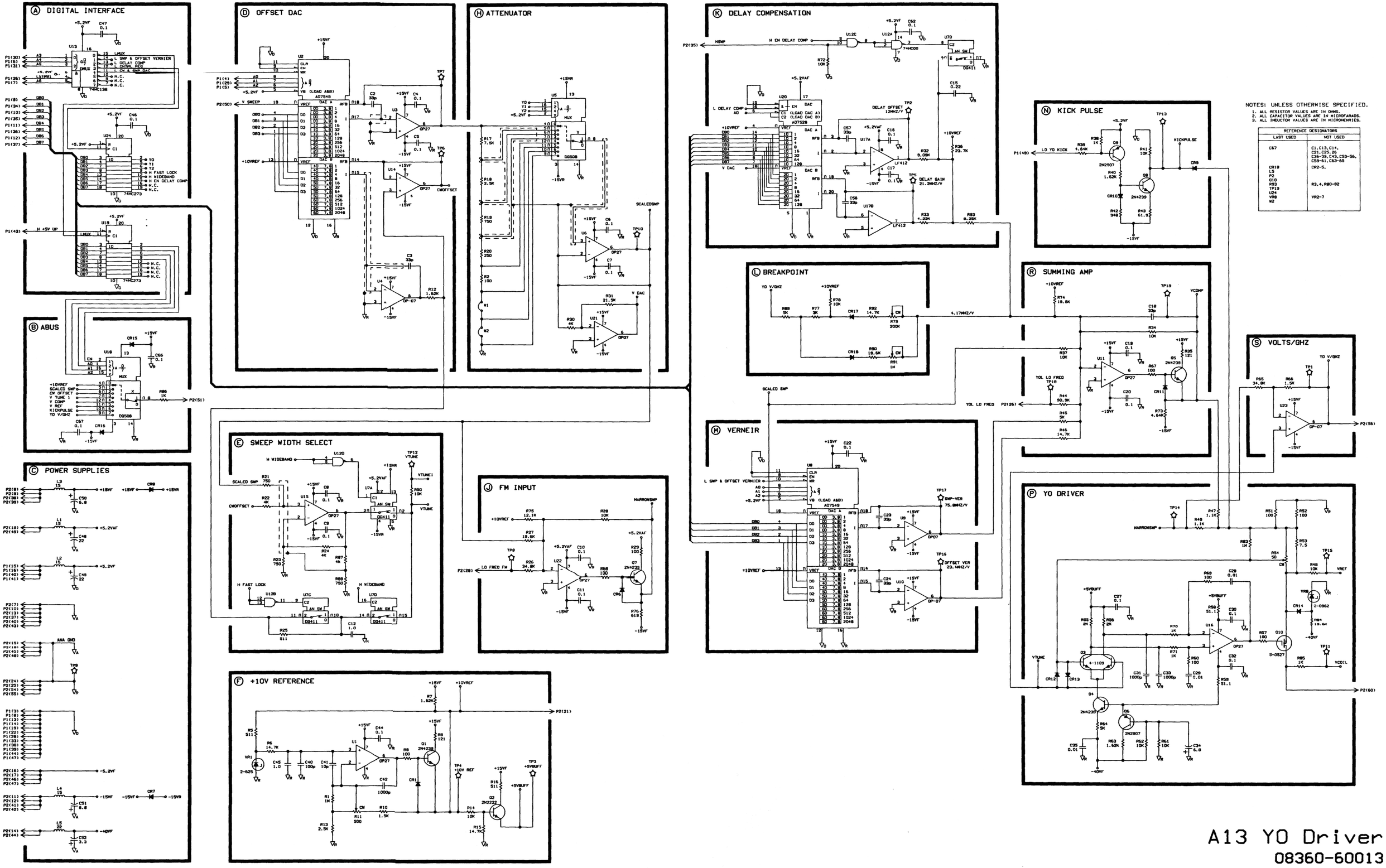


NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

A13 YO Driver

08360-60013



A13 YO Driver

08360-60013

(SHEET 1 of 1)

Schematic Package for 08360-60207 A13 YO Driver Assembly

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HEWLETT PACKARD

Replaceable Parts List for A13 YO Driver Assembly, Part Number 08360–60207 (1 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13	08360–60207	1	BD AY–YO DRIVER	28480	08360–60207
A13C1	0160–3742	1	CAP–FXD 1uF ±5% 50 V POLYC–MET	05176	HEW–576
A13C2	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10C0G330J100
A13C3	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10C0G330J100
A13C4	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C5	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C6	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C7	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C8	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C9	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C10	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C11	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C13	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	09939	RPA10C0G101J100V
A13C15	0160–4833	1	CAP–FXD 0.022uF ±10% 100 V CER X7R	09939	RPA20X7R223K100V
A13C16	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C17	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C18	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10C0G330J100
A13C19	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C20	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C21	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10C0G330J100
A13C22	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C23	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10C0G330J100
A13C24	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10C0G330J100
A13C25	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C26	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C27	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10C0G330J100
A13C28	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10C0G330J100
A13C29	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C30	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C31	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	09939	RPA20C0G102J100V
A13C32	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C33	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C34	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A13C35	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C36	0160–5098	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	09939	RPA40X7R224K50V
A13C37	0180–2186	1	CAP–FXD 300uF ±20% 30 V	04200	109D307X0030K2–DYP
A13C38	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C39	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A13C40	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	09939	RPA10C0G101J100V
A13C41	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	09939	RPA10C0G100D100
A13C42	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	09939	RPA20C0G102J100V
A13C43	0180–3143	1	CAP–FXD 3.3uF ±10% 75 V TA	04200	150D335X9075B2
A13C44	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C45	0160–3742	1	CAP–FXD 1uF ±5% 50 V POLYC–MET	05176	HEW–576
A13C46	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C47	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT

Replaceable Parts List for A13 YO Driver Assembly, Part Number 08360–60207 (2 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13C48	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A13C49	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A13C50	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A13C51	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C52	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR4	1901–0376	1	DIODE–GEN PRP 35V 50MA DO–35	00046	S303
A13CR5	1901–0033	1	DIODE–GEN PRP 180V 200MA DO–35	03406	
A13CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR13	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR14	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A13CR15	1901–0539	1	DIODE–SCHOTTKY SM SIG	02062	50825510
A13L1	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03706	21501M–5%
A13L2	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03706	21501M–5%
A13L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03706	21501M–5%
A13L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03706	21501M–5%
A13L5	9100–3313	1	INDUCTOR RF–CH–MLD 22UH ±5%	03706	22201M–5%
A13MP2	1205–0011	1	HEAT SINK TO–5/TO–39–CS	05792	TXBF–032–025B
A13MP3	08360–20112	1	HEAT SINK		
A13MP4	0535–0031	3	NUT–HEX W/LKWR M3 X 0.5 2.4MM–THK	06691	
A13MP5	0570–0639	3	STD–PRS–IN M3 X 0.5 12.000 PH–BRZ	03981	KFH–M3–12–ET
A13MP6	1200–0147	2	INSULATOR–FLG–BSHG NYLON	03380	974–302
A13MP7	1200–0081	1	INSULATOR–FLG–BSHG NYLON	03380	974 307
A13MP8	1200–0173	1	INSULATOR–XSTR DAP–GL	02210	A–10001 DAP
A13MP9	0515–0658	4	SCREW–MACHINE ASSEMBLY M2 X 0.4 6MM–LG	05610	
A13MP10	0340–1180	1	INSULATOR–XSTR THRM–CNDCT	05447	K4–06
A13MP11	0403–0630	1	EXTR–PC BD BRN NYL .062–IN–BD–THKNS	02123	91–2–BROWN–9
A13MP12	0403–0628	1	EXTR–PC BD ORN NYL .062–IN–BD–THKNS	02123	91–2–ORANGE–6
A13MP13	1400–0249	1	CABLE TIE .062–.625–DIA .091–WD NYL	04225	TY–23M–8
A13P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A13P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A13Q1	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A13Q2	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A13Q3	1853–0269	1	TRANSISTOR–DUAL PNP 2N3809 TO–78	02037	2N3809
A13Q4	1855–0527	1	TRANSISTOR MOSFET P–CHAN E–MODE TO–3 SI	02037	MTM2P50
A13Q5	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A13Q6	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A

Replaceable Parts List for A13 YO Driver Assembly, Part Number 08360–60207 (3 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13Q7	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A13Q8	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A13Q9	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A13R1	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R2	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R3	0698–6782	1	RESISTOR 250 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R4	0698–6323	1	RESISTOR 100 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R5	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R6	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R7	0757–0428	1	RESISTOR 1.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R8	0757–0403	1	RESISTOR 121 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R9	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R10	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R11	2100–3732	1	RESISTOR–TRMR 500 10% TKF SIDE–ADJ	04568	67XR
A13R12	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R13	0698–6631	1	RESISTOR 2.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R14	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R15	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R16	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R17	0698–6614	1	RESISTOR 7.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R18	0698–6322	1	RESISTOR 4K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R19	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R20	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R21	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R22	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R23	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R24	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R25	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R26	0757–0123	1	RESISTOR 34.8K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R27	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R28	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R29	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R30	0698–6348	1	RESISTOR 3K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R31	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R32	0757–0288	1	RESISTOR 9.09K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R33	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R34	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R35	0757–0403	1	RESISTOR 121 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R36	0698–3158	1	RESISTOR 23.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R37	0698–6361	1	RESISTOR 8K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R38	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R39	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R40	0757–0428	1	RESISTOR 1.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R41	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R42	0698–3445	1	RESISTOR 348 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R43	0757–1002	1	RESISTOR 61.9 ±1% .5W TF TC=0±100	05524	CMF–65–2

Replaceable Parts List for A13 YO Driver Assembly, Part Number 08360–60207 (4 of 6)

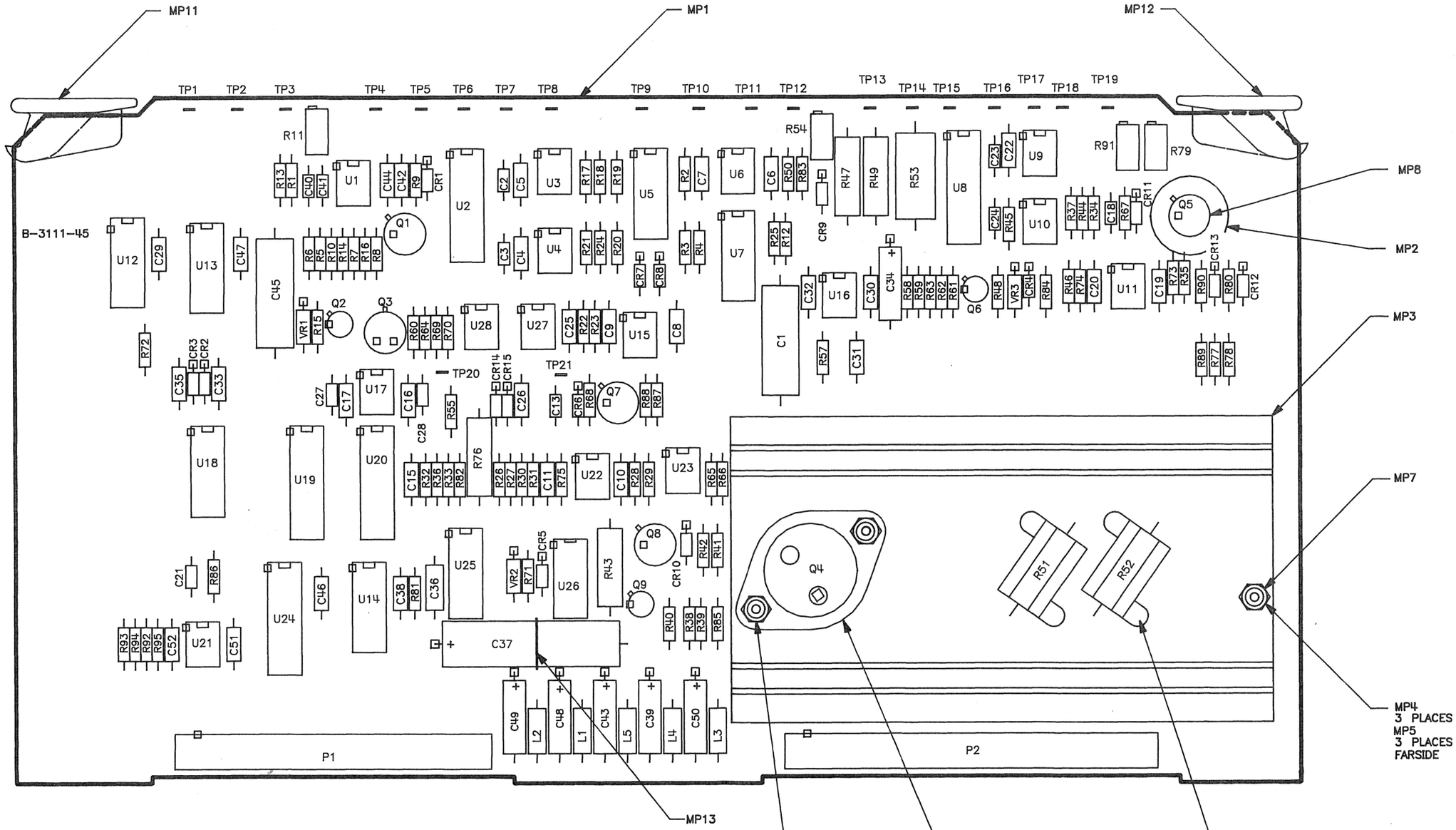
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13R44	0757–0464	1	RESISTOR 90.9K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R45	0698–6322	1	RESISTOR 4K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R46	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R47	0757–0820	1	RESISTOR 1.1K ±1% .5W TF TC=0±100	05524	CMF–65–2
A13R48	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R49	0757–0820	1	RESISTOR 1.1K ±1% .5W TF TC=0±100	05524	CMF–65–2
A13R50	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R51	0811–3762	1	RESISTOR 100 ±1% 12W PWI TC=0±2	01854	R3200–2
A13R52	0811–3762	1	RESISTOR 100 ±1% 12W PWI TC=0±2	01854	R3200–2
A13R53	0811–3859	1	RESISTOR 7.5 ±1% .5W PN TC=0±5	01854	
A13R54	2100–3755	1	RESISTOR–TRMR 50 10% TKF SIDE–ADJ 17–TRN	04568	67XR
A13R55	0757–0458	1	RESISTOR 51.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R57	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R58	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R59	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R60	0698–6614	1	RESISTOR 7.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R61	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R62	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R63	0757–0428	1	RESISTOR 1.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R64	0698–6631	1	RESISTOR 2.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R65	0757–0123	1	RESISTOR 34.8K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R66	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R67	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R68	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R69	0698–6631	1	RESISTOR 2.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R70	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R71	0698–3445	1	RESISTOR 348 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R72	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R73	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R74	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R75	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R76	0757–0158	1	RESISTOR 619 ±1% .5W TF TC=0±100	05524	CMF–65–2
A13R77	0698–6348	1	RESISTOR 3K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R78	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R79	2100–3753	1	RESISTOR–TRMR 200K 10% TKF SIDE–ADJ	04568	67XR
A13R80	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R81	0757–0200	1	RESISTOR 5.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R82	0698–0085	1	RESISTOR 2.61K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R83	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R84	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R85	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R86	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R87	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R88	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R89	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R90	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A13 YO Driver Assembly, Part Number 08360–60207 (5 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13R91	2100–3754	1	RESISTOR–TRMR 1M 10% TKF SIDE–ADJ 17–TRN	04568	67XR
A13R92	0757–0428	1	RESISTOR 1.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R93	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R94	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R95	0698–6627	1	RESISTOR 25K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP11	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP12	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP13	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP14	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP15	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP16	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP17	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP18	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP19	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP20	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP21	1460–2201	1	SPRING RADIAL TEST POINT		
A13U1	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U2	1826–1443	1	D/A 12–DGT 20–CERDIP CMOS	03285	AD7549BD
A13U3	1826–2190	1	IC OP AMP LOW–NOISE DUAL 8 PIN DIP–C	03285	OP–270FZ
A13U4	1826–0534	1	IC OP AMP SPCL 8 PIN DIP–P	03799	CA3080E
A13U5	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A13U6	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U7	1826–1824	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG411DJ
A13U8	1826–1443	1	D/A 12–DGT 20–CERDIP CMOS	03285	AD7549BD
A13U9	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	10858	OP–07CJ8
A13U10	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	10858	OP–07CJ8
A13U11	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U12	1820–2922	1	IC GATE CMOS/HC NAND QUAD 2–INP	02037	MC74HC00N
A13U13	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138AN
A13U14	1826–0639	1	D/A 8–BIT 16–PLASTIC CMOS	03285	AD7524JN
A13U15	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U16	1826–1804	1	IC OP AMP LOW–NOISE 8 PIN DIP–P	10858	LT1028ACN8
A13U17	1826–0962	1	IC OP AMP LOW–BIAS–H–IMPD DUAL 8 PIN	03406	LF412CN
A13U18	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A13U19	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A13U20	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN

Replaceable Parts List for A13 YO Driver Assembly, Part Number 08360–60207 (6 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13U21	1826–2190	1	IC OP AMP LOW–NOISE DUAL 8 PIN DIP–C	03285	OP–270FZ
A13U22	1826–2190	1	IC OP AMP LOW–NOISE DUAL 8 PIN DIP–C	03285	OP–270FZ
A13U23	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	10858	OP–07CJ8
A13U24	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A13U25	1826–1824	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG411DJ
A13U26	0490–0916	1	RELAY–REED 1A 500MA 100VDC 5VDC–COIL	02744	R–6966–1
A13U27	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U28	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13VR1	1902–0625	1	DIODE–ZNR 1N829 6.2V 5% DO–35 PD=.4W	02037	1N829
A13VR2	1902–0244	1	DIODE–ZNR 30V 5% PD=1W IR=5UA	02037	1N4751ARL
A13VR3	1902–0962	1	DIODE–ZNR 15V 5% DO–35 PD=.4W TC=+.087%	02037	SZ30035–2



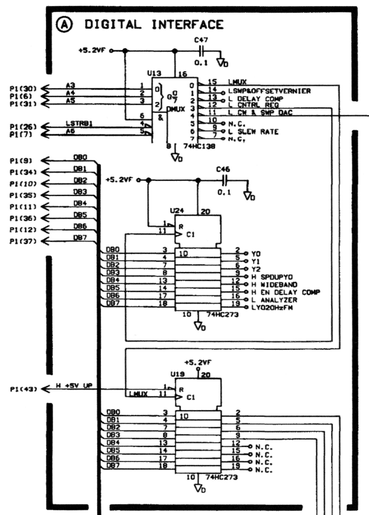
NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

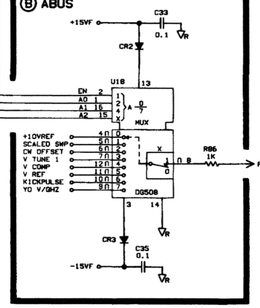
A13 YO Driver

08360-60207

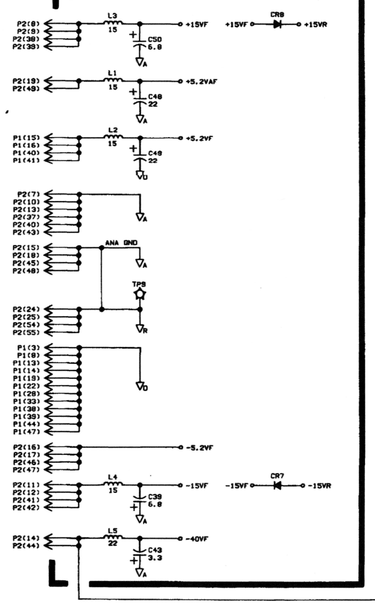
Ⓐ DIGITAL INTERFACE



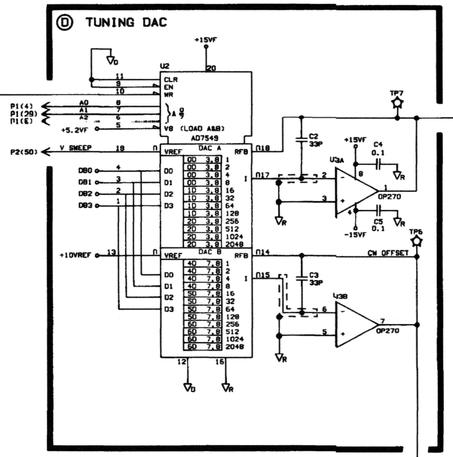
Ⓑ ABUS



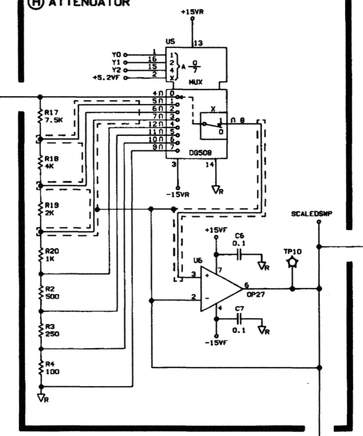
Ⓒ POWER SUPPLIES



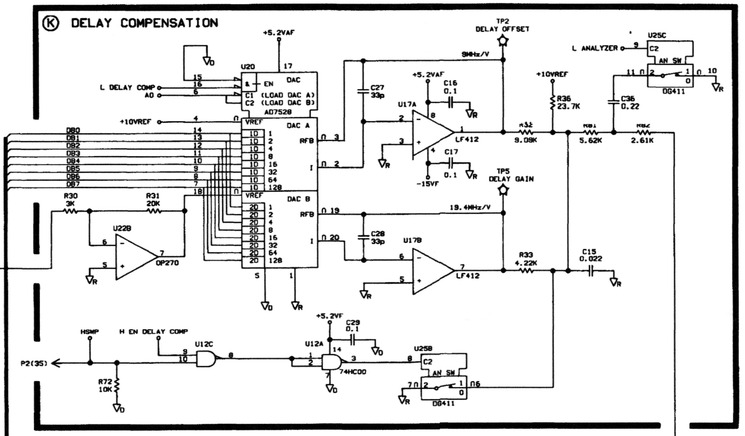
Ⓓ TUNING DAC



Ⓗ ATTENUATOR

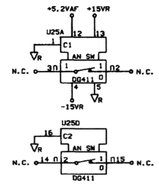


Ⓚ DELAY COMPENSATION

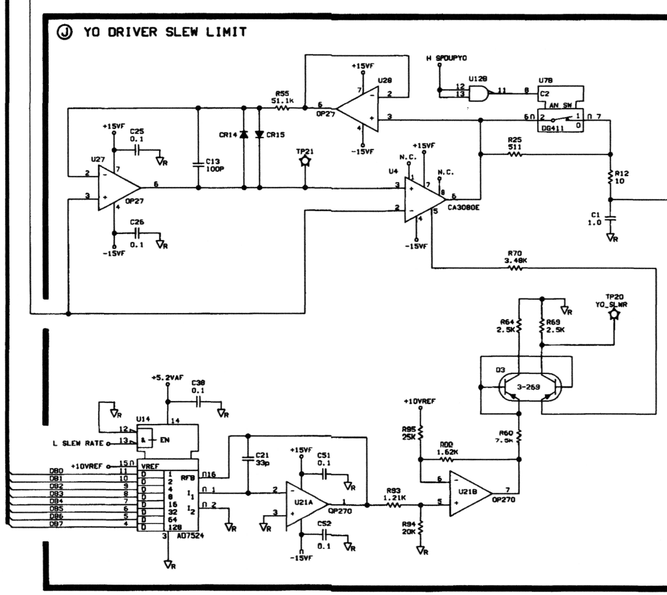


NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

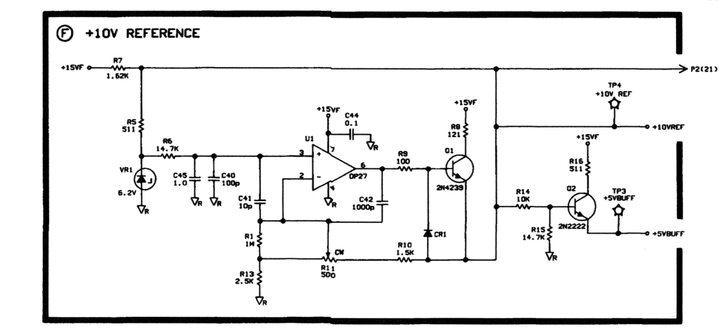
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CR15	
L5	
P2	
D9	
R95	R56
TP21	
U28	
VR3	



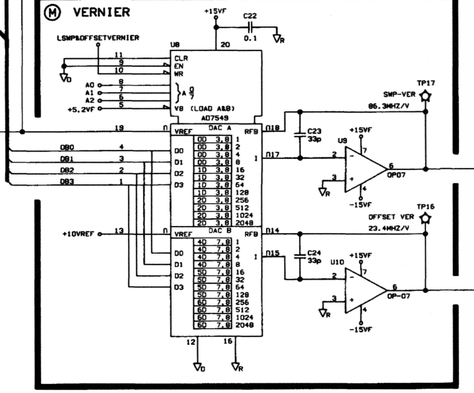
Ⓙ YO DRIVER SLEW LIMIT



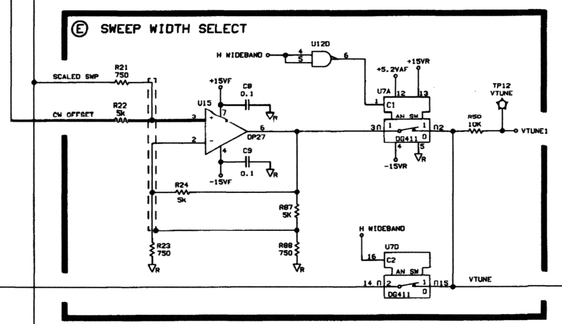
Ⓕ +10V REFERENCE



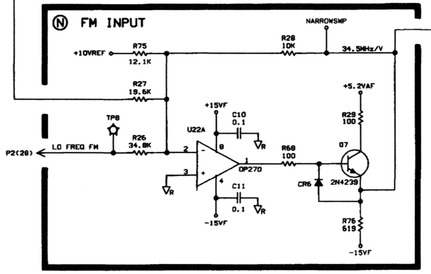
Ⓗ VERNIER



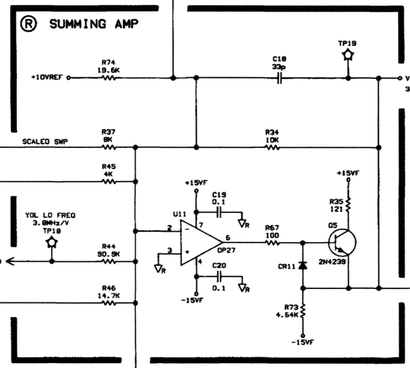
Ⓔ SWEEP WIDTH SELECT



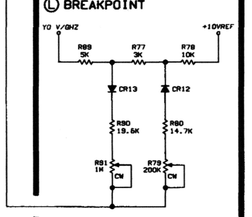
Ⓝ FM INPUT



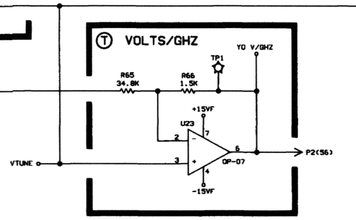
Ⓡ SUMMING AMP



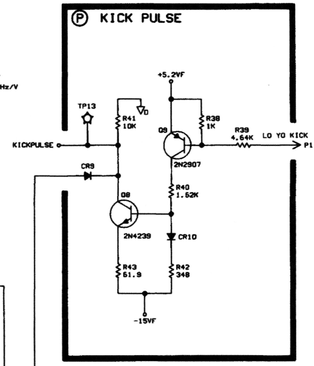
Ⓛ BREAKPOINT



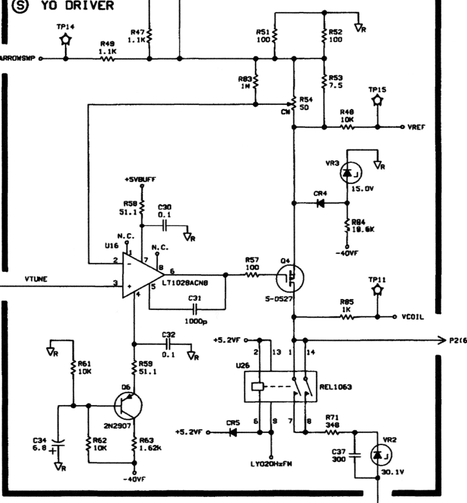
Ⓣ VOLTS/GHZ



Ⓟ KICK PULSE



Ⓢ YO DRIVER



A13 YO Driver
08360-60207
(SHEET 1 of 1)

Schematic Package for 08360-60213 A13 YO Driver Assembly

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Replaceable Parts List for A13 YO Driver Assembly, Part Number 08360–60213 (1 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13	08360–60213	1	BD AY–YO DRIVER	28480	08360–60213
A13C2	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10COG330J100
A13C3	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10COG330J100
A13C4	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C5	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C6	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C7	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C8	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C9	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C10	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C11	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C12	0160–3742	1	CAP–FXD 1uF ±5% 50 V POLYC–MET	05176	HEW–576
A13C15	0160–4833	1	CAP–FXD 0.022uF ±10% 100 V CER X7R	09939	RPA20X7R223K100V
A13C16	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C17	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C18	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10COG330J100
A13C19	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C20	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C22	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C23	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10COG330J100
A13C24	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	09939	RPA10COG330J100
A13C27	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C28	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A13C29	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A13C30	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C31	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	09939	RPA20C0G102J100V
A13C32	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C33	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	09939	RPA20C0G102J100V
A13C34	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A13C35	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A13C40	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	09939	RPA10C0G101J100V
A13C41	0160–4791	1	CAP–FXD 10pF ±5% 100 V CER C0G	09939	RPA10C0G100D100
A13C44	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C45	0160–3742	1	CAP–FXD 1uF ±5% 50 V POLYC–MET	05176	HEW–576
A13C46	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C47	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C48	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X9015B2–DYS
A13C49	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X9015B2–DYS
A13C50	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A13C51	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A13C52	0180–3143	1	CAP–FXD 3.3uF ±10% 75 V TA	04200	150D335X9075B2
A13C57	0160–4807	1	CAP–FXD 33pF ±5% 100V CER COG	09939	RPA10COG330J100
A13C58	0160–4807	1	CAP–FXD 33pF ±5% 100V CER COG	09939	RPA10COG330J100
A13C62	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C66	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT

Replaceable Parts List for A13 YO Driver Assembly, Part Number 08360–60213 (2 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13C67	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C68	0160–5098	1	CAP–FXD .22uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13C69	0160–2186	1	CAP–FXD 300uF ±10% 30 V TA	09939	RPA20X7R104K50VPT
A13C74	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	09939	RPA20X7R104K50VPT
A13CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR13	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR14	1901–0376	1	DIODE–GEN PRP 35V 50MA DO–35	00046	S303
A13CR15	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A13CR16	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	02062	50825510
A13CR17	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	02062	50825510
A13CR18	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	02062	50825510
A13CR19	1901–0033	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	02062	50825510
A13CR20	1901–0033	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	02062	50825510
A13L1	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03706	21501M–5%
A13L2	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03706	21501M–5%
A13L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03706	21501M–5%
A13L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03706	21501M–5%
A13L5	9100–3313	1	INDUCTOR RF–CH–MLD 22UH ±5%	03706	22201M–5%
A13MP2	1205–0011	1	HEAT SINK TO–5/TO–39–CS	05792	TXBF–032–025B
A13MP3	08360–20112	1	HEAT SINK		
A13MP4	0535–0031	3	NUT–HEX W/LKWR M3 X 0.5 2.4MM–THK	06691	
A13MP5	0570–0639	3	STD–PRS–IN M3 X 0.5 12.000 PH–BRZ	03981	KFH–M3–12–ET
A13MP6	1200–0147	2	INSULATOR–FLG–BSHG NYLON	03380	974–302
A13MP7	1200–0081	1	INSULATOR–FLG–BSHG NYLON	03380	974 307
A13MP8	1200–0173	1	INSULATOR–XSTR DAP–GL	02210	A–10001 DAP
A13MP9	0515–0658	4	SCREW–MACHINE ASSEMBLY M2 X 0.4 6MM–LG	05610	
A13MP10	0340–1180	1	INSULATOR–XSTR THRM–CNDCT	05447	K4–06
A13MP11	0403–0630	1	EXTR–PC BD BRN NYL .062–IN–BD–THKNS	02123	91–2–BROWN–9
A13MP12	0403–0628	1	EXTR–PC BD ORN NYL .062–IN–BD–THKNS	02123	91–2–ORANGE–6
A13MP13	1400–0249	1	CABLE TIE .062–.625–DIA .091–WD NYL	04225	TY–23M–8
A13P1	1251–7986	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534204–1
A13P2	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A13Q1	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A13Q2	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A13Q3	1854–1109	1	TRANSISTOR–DUAL NPN TO–78 PD=500MW	02180	MAT–02FH
A13Q4	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A13Q5	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A13Q6	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A13Q7	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239

Replaceable Parts List for A13 YO Driver Assembly, Part Number 08360–60213 (3 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13Q8	1854–0361	1	TRANSISTOR NPN 2N4239 SI TO–5 PD=1W	02037	2N4239
A13Q9	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A13Q11	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A13R1	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R2	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R3	0698–6782	1	RESISTOR 250 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R4	0698–6323	1	RESISTOR 100 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R5	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R6	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R7	0757–0428	1	RESISTOR 1.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R8	0757–0403	1	RESISTOR 121 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R9	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R10	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R11	2100–3732	1	RESISTOR–TRMR 500 10% TKF SIDE–ADJ	04568	67XR
A13R13	0698–6631	1	RESISTOR 2.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R14	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R15	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R16	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R17	0698–6614	1	RESISTOR 7.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R18	0698–6322	1	RESISTOR 4K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R19	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R20	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R21	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R22	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R23	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R24	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R26	0757–0123	1	RESISTOR 34.8K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R27	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R28	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R29	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R30	0698–6348	1	RESISTOR 3K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R31	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R32	0757–0288	1	RESISTOR 9.09K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R33	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R34	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R35	0757–0403	1	RESISTOR 121 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R36	0698–3158	1	RESISTOR 23.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R37	0698–6361	1	RESISTOR 8K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R38	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R39	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R40	0757–0428	1	RESISTOR 1.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R41	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R42	0698–3445	1	RESISTOR 348 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R43	0757–1002	1	RESISTOR 61.9 ±1% .5W TF TC=0±100	05524	CMF–65–2
A13R44	0757–0464	1	RESISTOR 90.9K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R45	0698–6322	1	RESISTOR 4K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9

Replaceable Parts List for A13 YO Driver Assembly, Part Number 08360–60213 (4 of 6)

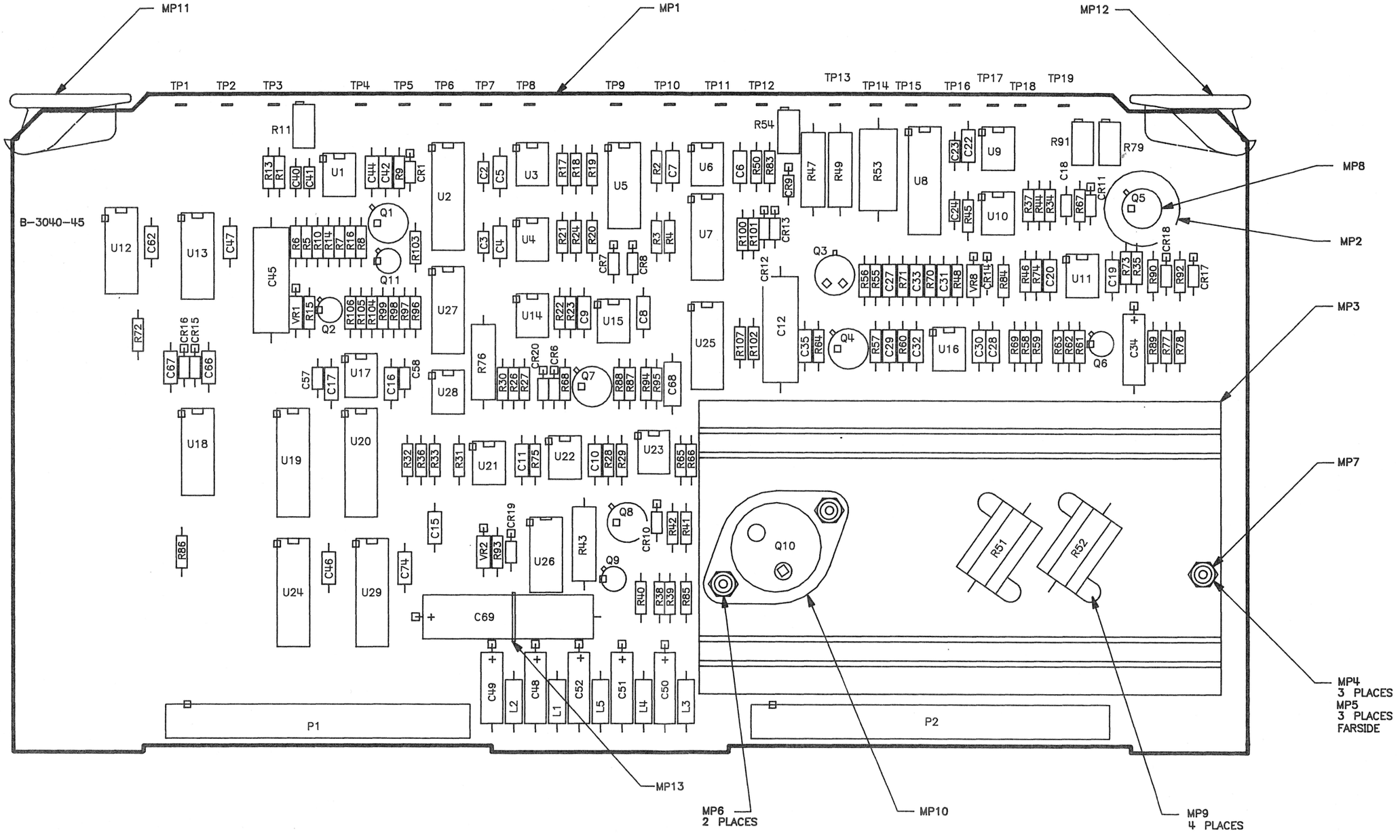
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13R46	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R47	0757–0820	1	RESISTOR 1.1K ±1% .5W TF TC=0±100	05524	CMF–65–2
A13R48	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R49	0757–0820	1	RESISTOR 1.1K ±1% .5W TF TC=0±100	05524	CMF–65–2
A13R50	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R51	0811–3762	1	RESISTOR 100 ±1% 12W PWI TC=0±2	01854	R3200–2
A13R52	0811–3762	1	RESISTOR 100 ±1% 12W PWI TC=0±2	01854	R3200–2
A13R53	0811–3859	1	RESISTOR 7.5 ±1% .5W PN TC=0±5	01854	
A13R54	2100–3755	1	RESISTOR–TRMR 50 10% TKF SIDE–ADJ 17–TRN	04568	67XR
A13R55	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R56	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R57	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R58	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R59	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R60	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R61	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R62	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R63	0757–0428	1	RESISTOR 1.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R64	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R65	0757–0123	1	RESISTOR 34.8K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R66	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R67	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R68	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R69	0757–0401	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R70	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R71	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R72	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R73	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R74	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R75	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R76	0757–0158	1	RESISTOR 619 ±1% .5W TF TC=0±100	05524	CMF–65–2
A13R77	0698–6348	1	RESISTOR 3K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R78	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R79	2100–3753	1	RESISTOR–TRMR 200K 10% TKF SIDE–ADJ	04568	67XR
A13R83	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R84	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R85	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R86	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R87	0698–6322	1	RESISTOR 4K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R88	0698–6616	1	RESISTOR 750 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R89	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R90	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R91	2100–3754	1	RESISTOR–TRMR 1M 10% TKF SIDE–ADJ 17–TRN	04568	67XR
A13R92	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R93	0698–3445	1	RESISTOR 348 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R94	0757–0200	1	RESISTOR 5.62K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A13 YO Driver Assembly, Part Number 08360–60213 (5 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13R95	0698–0085	1	RESISTOR 2.61K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R96	0698–3443	1	RESISTOR 287 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R97	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R98	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R99	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R100	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A13R101	0757–0288	1	RESISTOR 9.09K ±1% .125W TF TC=	05524	CMF–55–1
A13R102	0698–3431	1	RESISTOR 23.7 ± 19% 125W TF TC = 0±100		
A13R103	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R104	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R105	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R106	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A13R107	8159–0005	1	RESISTOR 0 CWM	01339	L–2007–1
A13TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP11	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP12	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP13	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP14	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP15	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP16	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP17	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP18	1460–2201	1	SPRING RADIAL TEST POINT		
A13TP19	1460–2201	1	SPRING RADIAL TEST POINT		
A13U1	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U2	1826–1443	1	D/A 12–DGT 20–CERDIP CMOS	03285	AD7549BD
A13U3	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27GZ
A13U4	1826–1098	1	IC OP AMP LOW NOISE 8 PIN DIP–P	02180	OP–37GP
A13U5	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A13U6	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U7	1826–1824	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG411DJ
A13U8	1826–1443	1	D/A 12–DGT 20–CERDIP CMOS	03285	AD7549BD
A13U9	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	10858	OP–07CJ8
A13U10	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	10858	OP–07CJ8
A13U11	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U12	1820–2922	1	IC GATE CMOS/HC NAND QUAD 2–INP	02037	MC74HC00N
A13U13	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138AN
A13U14	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ

Replaceable Parts List for A13 YO Driver Assembly, Part Number 08360–60213 (6 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A13U15	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U16	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U17	1826–0962	1	IC OP AMP LOW–BIAS–H–IMPD DUAL 8 PIN	03406	LF412CN
A13U18	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A13U19	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A13U20	1826–1231	1	D/A 8–DGT 20–PLASTIC CMOS	03285	AD7528KN
A13U21	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	10858	OP–07CJ8
A13U22	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U23	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	10858	OP–07CJ8
A13U24	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A13U25	1826–1824	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG411DJ
A13U26	0490–0916	1	RELAY–REED 1A 500MA 100VDC 5VDC–COIL	02744	R–6966–1
A13U27	1826–1824	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG411DJ
A13U28	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	03285	OP–27GZ
A13U29	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A13VR1	1902–0625	1	DIODE–ZNR 1N829 6.2V 5% DO–35 PD=.4W	02037	1N829
A13VR2	1902–0244	1	DIODE–ZNR 30V 5% PD=1W IR=5UA	02037	1N4751ARL
A13VR3	1902–0962	1	DIODE–ZNR 15V 5% DO–35 PD=.4W TC=+.087%	02037	SZ30035–2



NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

A13 YO Drive

08360-6021

Ⓐ DIGITAL INTERFACE

Ⓑ ABUS

Ⓒ POWER SUPPLIES

Ⓓ OFFSET DAC

Ⓔ SWEEP WIDTH SELECT

Ⓕ +10V REFERENCE

Ⓗ ATTENUATOR

Ⓙ YO DRIVER SLEW LIMIT

Ⓚ DELAY COMPENSATION

Ⓛ BREAKPOINT

Ⓜ VERNIER

Ⓝ FM INPUT

Ⓟ KICK PULSE

Ⓡ SUMMING AMP

Ⓢ YO DRIVER

Ⓣ VOLTS/GHZ

NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
C67	C1,C13,C14, C21,C25,26, C36-38,C43,C53-56, C58-61,C63-65
CR10	CR2-5,
L5	
P2	
Q10	
R107	R80-82
TP19	
U24	
VR8	VR3-7

A13 YO Driver
08360-60213
(SHEET 1 of 1)

Schematic Package for 08360-60014 A14 Sweep Generator

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Information in this document is subject to change without notice. The configuration of some assemblies may differ from that indicated in this document.

HEWLETT PACKARD

Replaceable Parts List for A14 Sweep Generator Assembly, Part Number 08360–60014 (1 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A14	08360–60014	1	BD ASSY–SWP GEN	28480	08360–60014
A14C1	0160–5880	1	CAP–FXD 2200pF ±1% 50 V CER C0G	02010	SA205A222FAAH
A14C2	0160–5880	1	CAP–FXD 2200pF ±1% 50 V CER C0G	02010	SA205A222FAAH
A14C3	0160–5839	1	CAP–FXD 1uF ±10% 100 V POLYP–MET	04200	735P105X9100NJL
A14C6	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A14C7	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A14C8	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A14C9	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A14C10	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C11	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C12	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C13	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C14	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C15	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C16	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A14C17	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A14C18	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	02010	SA102A330JAAH
A14C19	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	02010	SA102A330JAAH
A14C20	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A14C21	0160–4807	1	CAP–FXD 33pF ±5% 100 V CER C0G	02010	SA102A330JAAH
A14C23	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A14C26	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C27	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A14C28	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A14C29	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A14C30	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A14C31	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A14C32	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A14C33	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C34	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C35	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A14C36	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A14C37	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A14C38	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C39	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C40	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C41	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C43	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A14C44	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C45	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C46	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C47	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C70	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C71	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C72	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C73	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH

Replaceable Parts List for A14 Sweep Generator Assembly, Part Number 08360–60014 (2 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A14C74	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C75	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C76	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C77	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A14C78	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A14CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A14CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A14CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A14CR4	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A14CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A14CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A14CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A14CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A14CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A14CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A14CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A14CR14	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A14CR15	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A14CR16	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A14J1	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A14J2	1250–0543	1	CONNECTOR–RF SMB M PC 50–OHM	05769	51–053–0349–BE8
A14L1	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A14L2	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A14L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A14L4	9100–1788	1	CORE–FERRITE CHOKE–WIDEBAND;IMP:>680	11212	LB2/2.5ZB
A14L6	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A14L7	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A14MP2	0403–0622	1	EXTR–PC BD YEL NYL .062–IN–BD–THKNS	02123	91–2–YELLOW–4
A14MP3	0403–0630	1	EXTR–PC BD BRN NYL .062–IN–BD–THKNS	02123	91–2–BROWN–9
A14P1	1251–7907	1	CONN–POST TYPE .100–PIN–SPCG 80–CONT	01380	534204–8
A14P2	1251–8786	1	CONN–POST TYPE .100–PIN–SPCG 70–CONT	01380	1–534204–3
A14Q1	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A14Q2	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A14Q3	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A14Q4	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A14Q5	1855–0232	1	TRANSISTOR–JFET DUAL 2N5565 N–CHAN	02883	2N5565
A14Q6	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A14Q7	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A14R1	0698–6343	1	RESISTOR 9K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A14R2	0698–6376	1	RESISTOR 200K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A14R3	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A14R5	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R6	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R7	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A14R8	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9

Replaceable Parts List for A14 Sweep Generator Assembly, Part Number 08360–60014 (3 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A14R9	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A14R10	0698–6348	1	RESISTOR 3K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A14R11	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R12	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R13	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R14	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R15	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R16	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R17	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R18	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A14R19	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R20	0698–6358	1	RESISTOR 100K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A14R21	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A14R22	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R23	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R24	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R25	0698–8958	1	RESISTOR 511K ±1% .125W TF TC=0±100	01074	H8
A14R26	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R29	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A14R30	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A14R34	0698–0083	1	RESISTOR 1.96K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R35	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A14R36	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A14R37	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A14R38	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A14R39	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R40	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R41	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R42	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R43	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R44	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R46	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R47	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R48	0757–0317	1	RESISTOR 1.33K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R49	0757–0418	1	RESISTOR 619 ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R50	0757–0418	1	RESISTOR 619 ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R51	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R52	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R54	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R55	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R56	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R57	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R58	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R59	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R60	0698–3430	1	RESISTOR 21.5 ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A14 Sweep Generator Assembly, Part Number 08360–60014 (4 of 6)

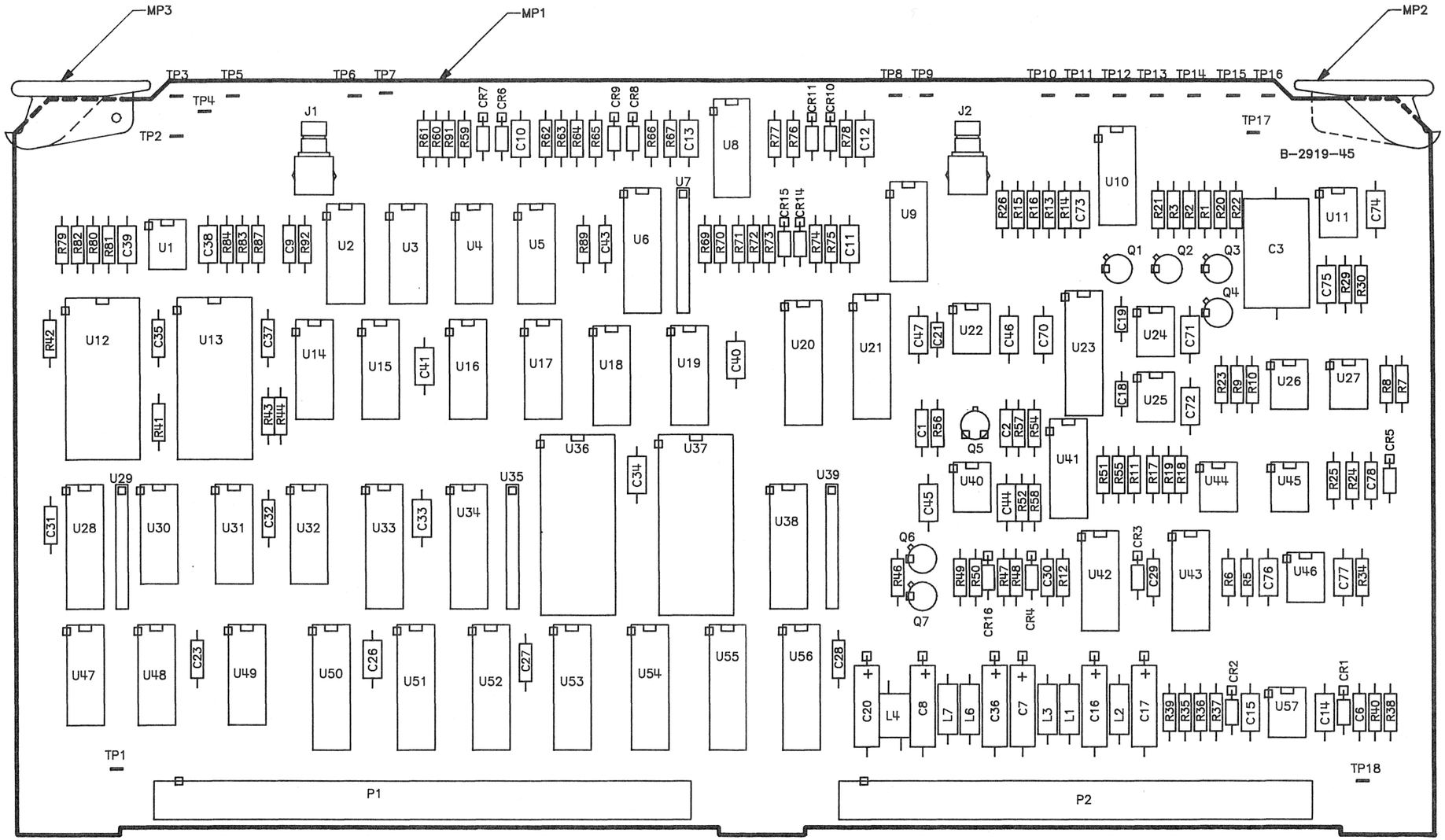
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A14R61	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R62	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R63	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R64	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R65	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R66	0698–3430	1	RESISTOR 21.5 ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R67	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R69	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R70	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R71	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R72	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R73	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R74	0698–3430	1	RESISTOR 21.5 ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R75	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R76	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R77	0757–0274	1	RESISTOR 1.21K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R78	0698–3430	1	RESISTOR 21.5 ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R79	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R80	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R81	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R82	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R83	0698–3446	1	RESISTOR 383 ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R84	0698–3446	1	RESISTOR 383 ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R87	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R89	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R91	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14R92	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A14TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A14TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A14TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A14TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A14TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A14TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A14TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A14TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A14TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A14TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A14TP11	1460–2201	1	SPRING RADIAL TEST POINT		
A14TP12	1460–2201	1	SPRING RADIAL TEST POINT		
A14TP13	1460–2201	1	SPRING RADIAL TEST POINT		
A14TP14	1460–2201	1	SPRING RADIAL TEST POINT		
A14TP15	1460–2201	1	SPRING RADIAL TEST POINT		
A14TP16	1460–2201	1	SPRING RADIAL TEST POINT		
A14TP17	1460–2201	1	SPRING RADIAL TEST POINT		
A14TP18	1460–2201	1	SPRING RADIAL TEST POINT		

Replaceable Parts List for A14 Sweep Generator Assembly, Part Number 08360–60014 (5 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A14U1	1826–1081	1	IC OP AMP PRCN 8 PIN DIP–P	03406	LF411ACN
A14U2	1820–2922	1	IC GATE CMOS/HC NAND QUAD 2–INP	02037	MC74HC00N
A14U3	1820–2924	1	IC GATE CMOS/HC NOR QUAD 2–INP	02037	MC74HC02N
A14U4	1820–3185	1	IC SCHMITT–TRIG CMOS/HC INV HEX	03406	MM74HC14N
A14U5	1820–2921	1	IC INV CMOS/HC HEX	03406	MM74HC04N
A14U6	08360–80008	1	PROG LOGIC ARRAY		
A14U7	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A14U8	1858–0055	1	TRANSISTOR ARRAY 14–PIN PLSTC DIP	02037	MPQ2369
A14U9	1820–3081	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG	02037	MC74HC74N
A14U10	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A14U11	1826–1367	1	IC OP AMP LOW–BIAS–H–IMPD 8 PIN DIP–C	02180	OP–16FZ
A14U12	1820–3093	1	IC–8000–SERIES PROGRAMMABLE TIMER	03811	P8254
A14U13	1820–3093	1	IC–8000–SERIES PROGRAMMABLE TIMER	03811	P8254
A14U14	1820–3081	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG	02037	MC74HC74N
A14U15	1820–2922	1	IC GATE CMOS/HC NAND QUAD 2–INP	02037	MC74HC00N
A14U16	1820–2924	1	IC GATE CMOS/HC NOR QUAD 2–INP	02037	MC74HC02N
A14U17	1820–3007	1	IC GATE CMOS/HC EXCL–OR QUAD 2–INP	02037	MC74HC86N
A14U18	1820–3146	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC175N
A14U19	1820–3146	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC175N
A14U20	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A14U21	1826–1386	1	D/A 12–BIT 18–PLASTIC CMOS	03285	AD7541AKN
A14U22	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27GZ
A14U23	1826–1443	1	D/A 12–DGT 20–CERDIP CMOS	03285	AD7549BD
A14U24	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A14U25	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A14U26	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A14U27	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A14U28	08360–80009	1	PROG LOGIC ARRAY		
A14U29	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A14U30	1820–3794	1	IC CNTR CMOS/HC BIN UP/DOWN SYNCHRO	03406	MM74HC191N
A14U31	1820–3794	1	IC CNTR CMOS/HC BIN UP/DOWN SYNCHRO	03406	MM74HC191N
A14U32	1820–3794	1	IC CNTR CMOS/HC BIN UP/DOWN SYNCHRO	03406	MM74HC191N
A14U33	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A14U34	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A14U35	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A14U36	1818–3183	1	IC 64K SRAM 150–NS CMOS	06347	HM6264ALP–15
A14U37	1818–3183	1	IC 64K SRAM 150–NS CMOS	06347	HM6264ALP–15
A14U38	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A14U39	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A14U40	1826–1049	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–27GZ
A14U41	1858–0077	1	TRANSISTOR ARRAY 14–PIN PLSTC TO–116	02037	MPQ2222P
A14U42	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A14U43	1826–1018	1	ANALOG SWITCH 4 SPST 16 –DIP–P	02883	DG201ACJ
A14U44	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A14U45	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ

Replaceable Parts List for A14 Sweep Generator Assembly, Part Number 08360–60014 (6 of 6)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A14U46	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A14U47	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A14U48	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A14U49	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A14U50	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A14U51	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A14U52	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A14U53	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A14U54	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A14U55	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A14U56	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A14U57	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ

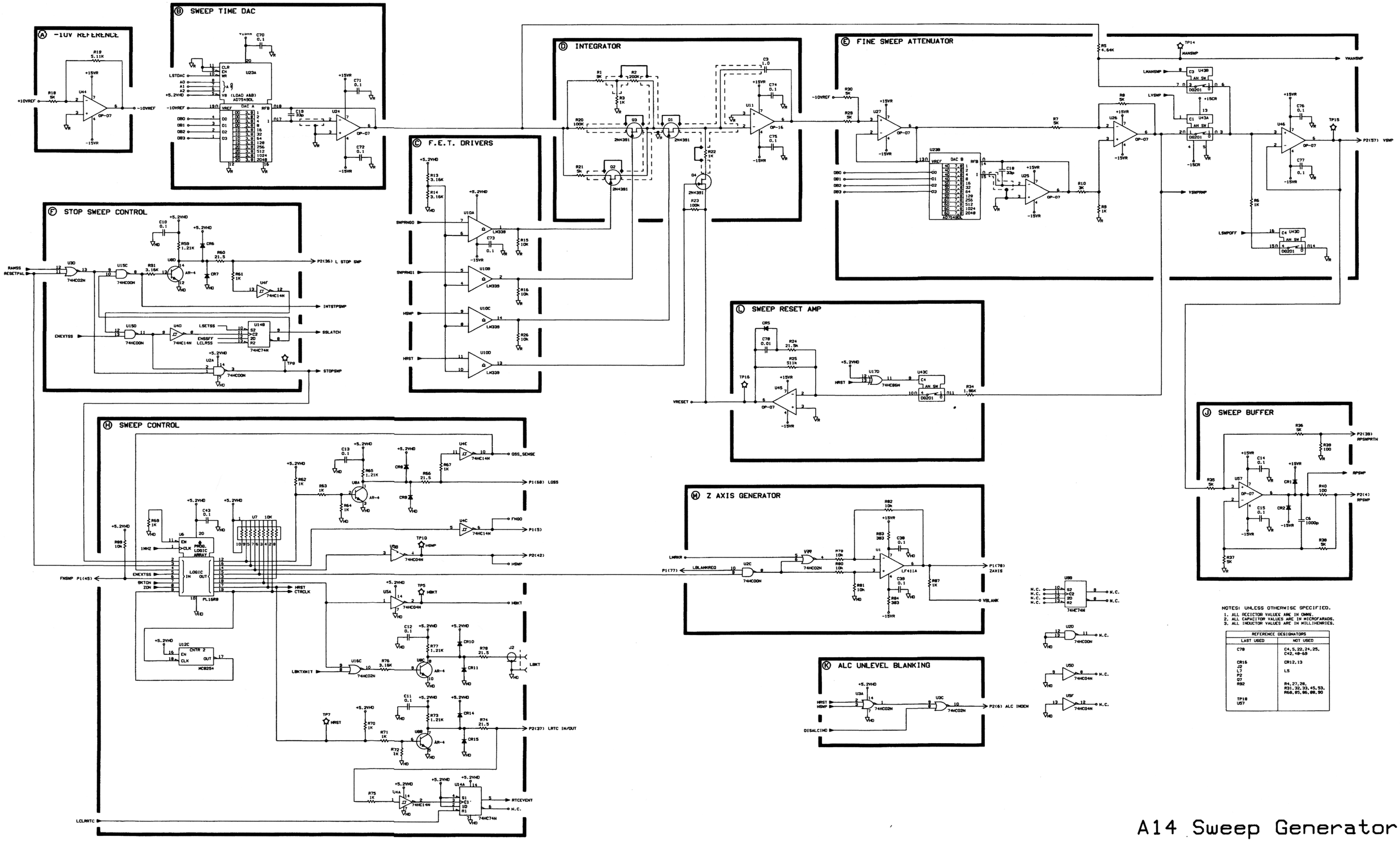


NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

A14 Sweep Generator

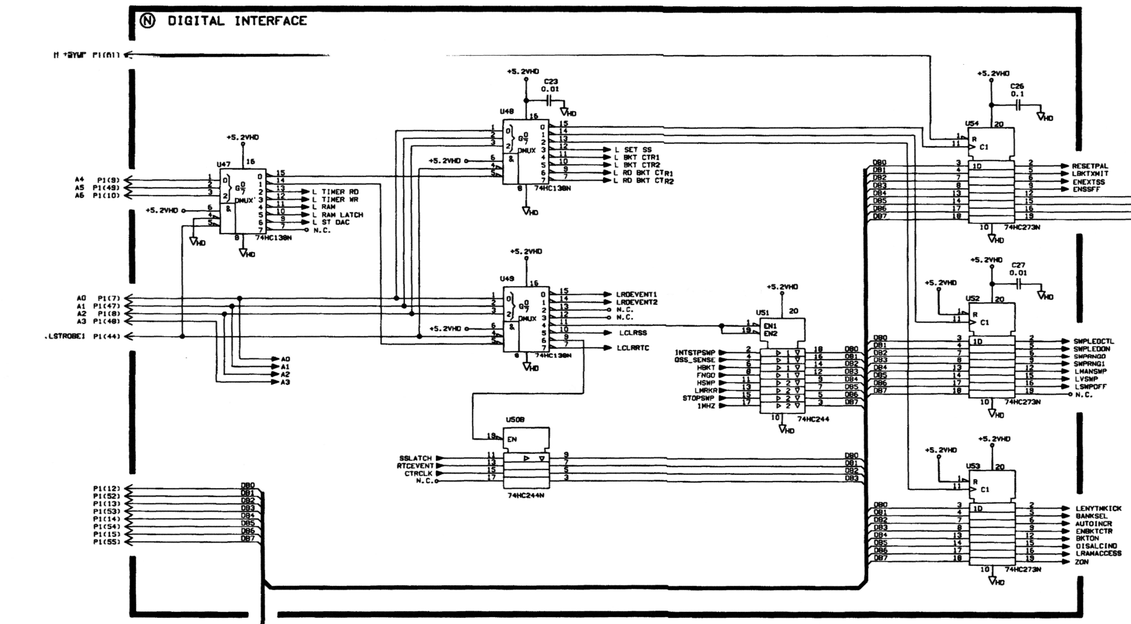
08360-60014

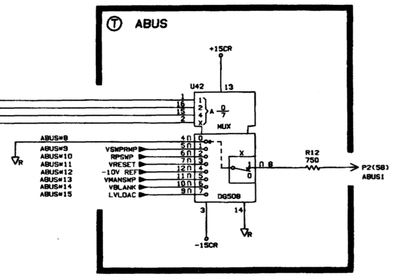


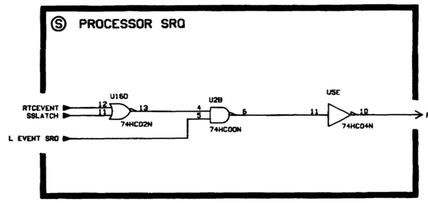
A14 Sweep Generator

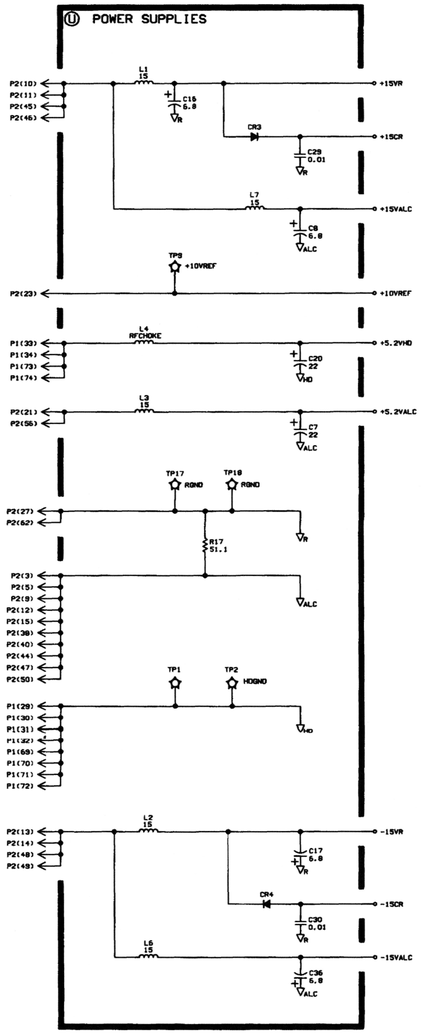
08360-60014

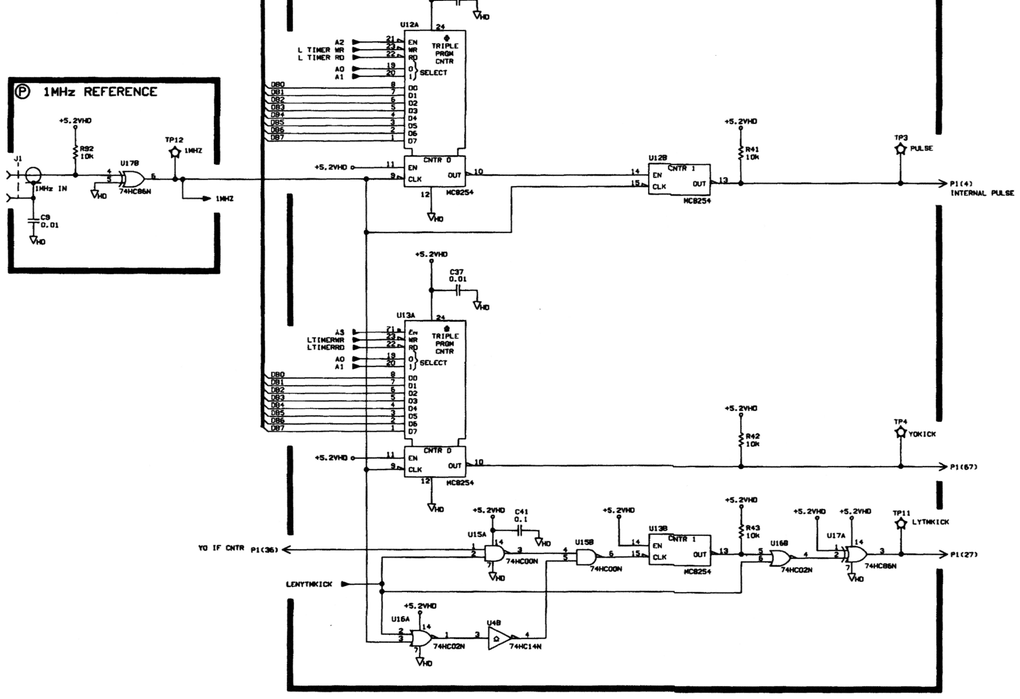
(SHEET 1 of 3)











FUNCTION	DEVICE ADDRESS	RD	WR
SWEEP CONTROL LATCH #1 (U54)	0		X
SWEEP CONTROL LATCH #2 (U52)	1		X
SWEEP CONTROL LATCH #3 (U53)	2		X
BUCKET COUNTER FULL 12 BITS	3	X	
EVENT BUFFER 16 BITS	6	X	
SET MARKER FF	9		X
CLEAR MARKER FF	10		X
PULSE GEN REP-RATE TIMER (U12)	11		X
BUCKET GENERATION TIMER (U12)	12		X
PULSE GEN. DUTY CYCLE TIMER (U12)	13		X
CONTROL REGISTER (U12)	14		X
YO KICK PULSE TIMER (U13)	15		X
ALC CORRECTION TIMER (U13)	16		X
YTM KICK TIMER (U13)	17		X
CONTROL REGISTER (U13)	18		X
WRITE RAM :16 BITS	19		X
WRITE RAM LATCH	22		X
WRITE ALC CORRECTION LATCH	23		X
SWEEP STATUS BUFFER #1 (U51)	24	X	
SWEEP STATUS BUFFER #2 (U50B)	25	X	
SWEEP TIME DAC (12 BITS)	26		X
SET MARKER	57		X
CLEAR MARKER	58		X
SET SS CIRCUIT	58		X
CLEAR SS CIRCUIT	60		X
ALC REFERENCE DAC WRITE SUBROUTINE	61		X
SWEEP TRIM DAC (12 BITS)	62		X

A14 Sweep Generator

08360-60014

(SHEET 2 of 3)

Ⓥ SWEEP EVENT RAM

Ⓜ ALC REFERENCE

A14 Sweep Generator

08360-60014

(SHEET 3 of 3)

Schematic Package for 08360-60015 A15 CPU

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Information in this document is subject to change without notice. The configuration of some assemblies may differ from that indicated in this document.



Replaceable Parts List for A15 CPU Assembly, Part Number 08360–60015 (1 of 5)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A15	08360–60015	1	BOARD ASSY–CPU	28480	08360–60215
A15BT1	1420–0516		BATTERY 2.8V .7A–HR LI/I PIN	8781	497594
A15C1	0180–3731	1	CAP–FXD 1000uF ±20% 10 V AL–ELCTLT	00493	KM10T102M10X30LL
A15C2	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C4	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C6	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C7	0180–0374		CAP–FXD 10uf ±10% 20V TA	04200	150D106X9020B2–DYS
A15C8	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C9	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A15C10	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C11	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A15C12	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C16	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C17	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C18	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C19	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C20	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C21	0160–4401		CAP–FXD 0.01uF ±10% 100V POLYP–FL	03441	PPAW–.01–100–10
A15C22	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C23	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C24	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C25	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C26	0180–0374	1	CAP–FXD 10uF ±10% 20 V TA	04200	150D106X9020B2–DYS
A15C27	0180–0374	1	CAP–FXD 10uF ±10% 20 V TA	04200	150D106X9020B2–DYS
A15C28	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C29	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C30	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C31	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C33	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C36	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C37	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C38	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C40	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C41	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C42	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C43	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C44	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C47	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C48	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C49	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C50	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C51	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C52	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C53	0180–3731	1	CAP–FXD 1000uF ±20% 10 V AL–ELCTLT	00493	KM10T102M10X30LL
A15C54	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C55	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH

Replaceable Parts List for A15 CPU Assembly, Part Number 08360–60015 (2 of 5)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A15C56	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A15C57	0180–0374	1	CAP–FXD 10uF ±10% 20 V TA	04200	150D106X9020B2–DYS
A15C58	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C59	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A15CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A15CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A15CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A15CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A15CR9	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A15CR10	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A15CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A15CR13	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A15CR14	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A15CR20	1901–0731	1	DIODE–PWR RECT 400V 1A	02037	1N4004
A15DS1	1990–0652	1	LED–LAMP ARRAY LUM–INT=200UCD IF=5MA–MAX	01542	HLMP–6620 SELECTED
A15DS2	1990–0652	1	LED–LAMP ARRAY LUM–INT=200UCD IF=5MA–MAX	01542	HLMP–6620 SELECTED
A15DS3	1990–0652	1	LED–LAMP ARRAY LUM–INT=200UCD IF=5MA–MAX	01542	HLMP–6620 SELECTED
A15L1	9140–1341	1	INDUCTOR 50UH ±10% .75W–INX.75LG–IN	03273	51–482
A15L2	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A15L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A15L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A15MP2	0403–0630	1	EXTR–PC BD BRN NYL .062–IN–BD–THKNS	02123	91–2–BROWN–9
A15MP3	0403–0623	1	EXTR–PC BD GRN NYL .062–IN–BD–THKNS	02123	91–2–GREEN–3
A15P1	1251–7907	1	CONN–POST TYPE .100–PIN–SPCG 80–CONT	01380	534204–8
A15P2	1251–8786	1	CONN–POST TYPE .100–PIN–SPCG 70–CONT	01380	1–534204–3
A15Q1	1855–0420	1	TRANSISTOR J–FET 2N4391 N–CHAN D–MODE	02883	2N4391
A15R1	0764–0016	1	RESISTOR 1K ±5% 2W MO TC=0±200	02499	GS–3
A15R2	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R3	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R7	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R8	0698–3153	1	RESISTOR 3.83K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R9	0698–3260	1	RESISTOR 464K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R10	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R11	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R16	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R17	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R18	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R19	0698–3440	4	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R20	0698–3440	4	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R23	0757–0462	1	RESISTOR 75K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R24	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R25	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R26	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R27	0698–3160	1	RESISTOR 31.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R28	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A15 CPU Assembly, Part Number 08360–60015 (3 of 5)

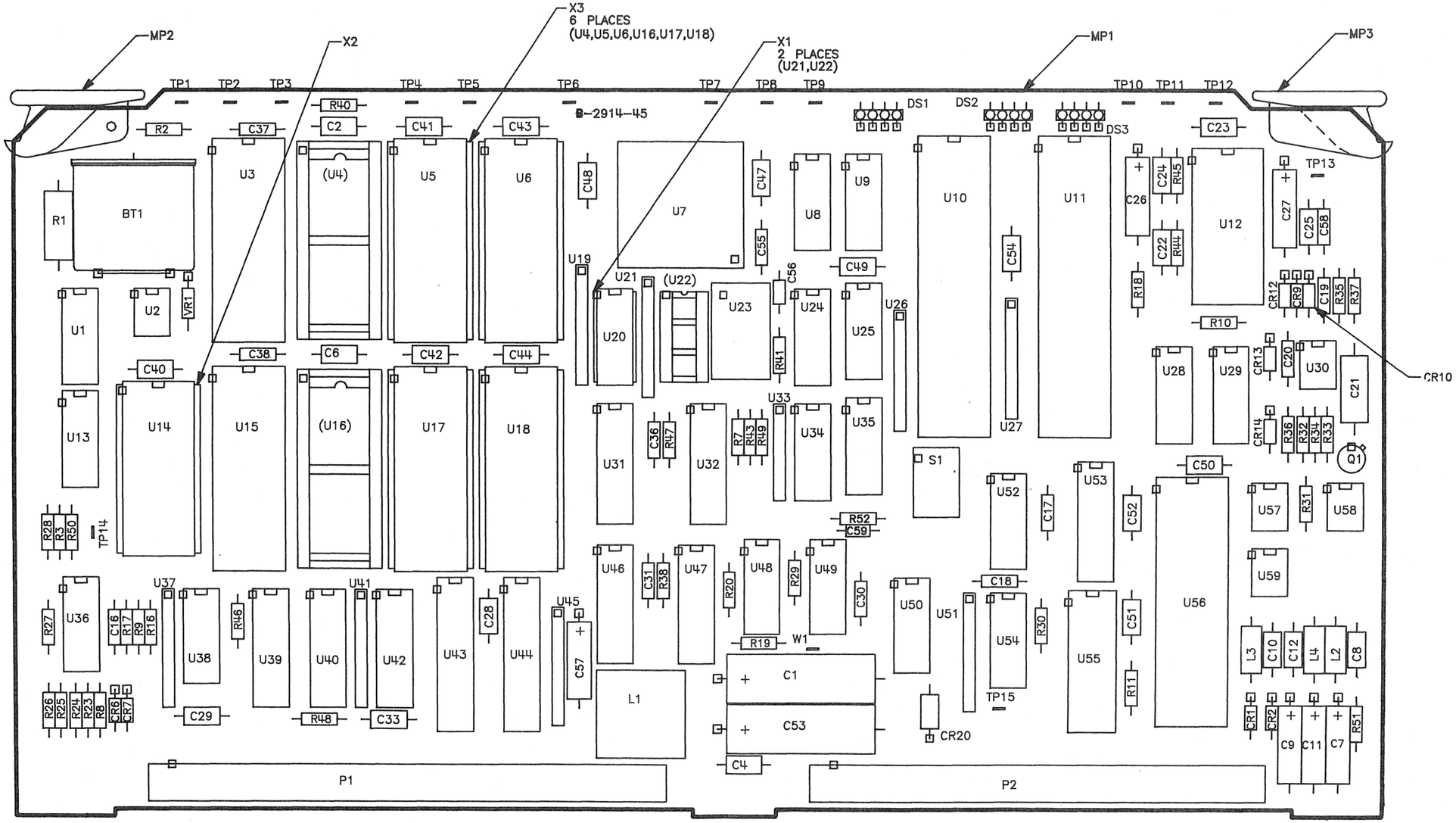
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A15R29	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R31	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R32	0698–6358	1	RESISTOR 100K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A15R33	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A15R34	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A15R35	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R36	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R37	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R38	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R40	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R41	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R43	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R44	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R45	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R46	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R47	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R48	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R49	0698–3440	4	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R50	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R51	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R52	0698–3440	4	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15S1	3101–2340	1	SWITCH–DIP RKR 5–1A 0.05A 30VDC	04990	76PSB05S
A15TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP11	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP12	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP13	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP14	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP15	1460–2201	1	SPRING RADIAL TEST POINT		
A15U1	1810–0316		NETWORK–RES 16–DIP 10.0K OHM X 8	02483	761–3–R10K
A15U2	1820–5497	1	IC–NONVOLATILE MEMORY CONTROLLER	12186	DS1210
A15U3	1818–4604	1	IC 1M SRAM 120–NS CMOS	06347	HM628128LP–12
A15U5		1	Order 08360–60147 Firmware Upgrade Kit		
A15U6		1	Order 08360–60147 Firmware Upgrade Kit		
A15U7	1820–3926	1	IC–16BIT, 10MHZ, PIN–GRID–ARRAY PKG. MPU	02037	MC68000R10
A15U8	1820–2656	1	IC GATE TTL/ALS NAND QUAD 2–INP	01698	SN74ALS00AN
A15U9	1820–2657	1	IC GATE TTL/ALS OR QUAD 2–INP	01698	SN74ALS32N

Replaceable Parts List for A15 CPU Assembly, Part Number 08360–60015 (4 of 5)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A15U10	1820–3832	1	IC–PARALLEL INTERFACE/TIMER/8MHZ/MC68000	02037	MC68230P8
A15U11	1820–3832	1	IC–PARALLEL INTERFACE/TIMER/8MHZ/MC68000	02037	MC68230P8
A15U12	1826–1693	1	A/D 12–BIT 24–CERDIP CMOS	03406	ADC1205BCJ–1
A15U13	1858–0055	1	TRANSISTOR ARRAY 14–PIN PLSTC DIP	02037	MPQ2369
A15U14	1818–4075	1	IC 256K EEPROM 350–NS NMOS	10572	X28256P–35
A15U15	1818–4604	1	IC 1M SRAM 120–NS CMOS	06347	HM628128LP–12
A15U17		1	Order 08360–60147 Firmware Upgrade Kit		
A15U18		1	Order 08360–60147 Firmware Upgrade Kit		
A15U19	1810–0279	1	NETWORK–RES 10–SIP 4.7K OHM X 9	05524	MSP10A01
A15U20	1251–4787	1	SHUNT–DIP 8 POSITION; DUAL INLINE PKG	01380	435704–8
A15U21	1810–0279	1	NETWORK–RES 10–SIP 4.7K OHM X 9	05524	MSP10A01
A15U23	1813–0196	1	CLOCK–OSCILLATOR–XTAL 14.7456–MHZ	01417	HS–109–14.7456
A15U24	1820–3205	1	IC CNTR CMOS/HC BIN UP/DOWN SYNCHRO	03406	MM74HC193N
A15U25	1820–2775	1	IC GATE TTL/ALS NAND TPL 3–INP	01698	SN74ALS10AN
A15U26	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A15U27	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A15U28	1820–1281	1	IC DCDR TTL/LS BIN 2–TO–4–LINE DUAL	01698	SN74LS139AN
A15U29	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A15U30	1826–1440	1	SAMPLE AND HOLD 8–DIP–P	03406	LF398AN
A15U31	08360–80002		PROG. LOGIC ARRAY	28480	08360–80002
A15U32	1820–2951	1	IC DRVR TTL/ALS BUS OCTL	01698	SN74ALS240AN
A15U33	1810–0205	1	NETWORK–RES 8–SIP 4.7K OHM X 7	02483	750–81
A15U34	1820–1851	1	IC ENCDR TTL/LS PRIORITY 8–TO–3–LINE	01698	SN74LS148N
A15U35	1820–2889	1	IC GATE TTL/ALS AND TPL 3–INP	01698	SN74ALS11AN
A15U36	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A15U37	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A15U38	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A15U39	1820–3082	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC374N
A15U40	1820–3082	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC374N
A15U41	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A15U42	1820–2998	1	IC LCH CMOS/HC TRANSPARENT OCTL	02037	MC74HC373N
A15U43	1820–2675	1	IC TRANSCEIVER TTL/LS BUS OCTL	01698	SN74LS646NT
A15U44	1820–2675	1	IC TRANSCEIVER TTL/LS BUS OCTL	01698	SN74LS646NT
A15U45	1810–0279	1	NETWORK–RES 10–SIP 4.7K OHM X 9	05524	MSP10A01
A15U46	08360–80003	1	PROG. LOGIC ARRAY	28480	08360–80003
A15U47	08360–80001	1	PROG. LOGIC ARRAY	28480	08360–80001
A15U48	1820–2739	1	IC GATE TTL/ALS NOR QUAD 2–INP	01698	SN74ALS02N
A15U49	1820–2488	1	IC FF TTL/ALS D–TYPE POS–EDGE–TRIG	01698	SN74ALS74AN
A15U50	1820–1440	1	IC LCH TTL/LS R–BAR S–BAR QUAD	01698	SN74LS279AN
A15U51	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A15U52	1820–1440	1	IC LCH TTL/LS R–BAR S–BAR QUAD	01698	SN74LS279AN
A15U53	1820–3431	1	IC–INTERFACE XCVR MISC/UNKNOWN	03406	DS75160AN
A15U54	1820–1440	1	IC LCH TTL/LS R–BAR S–BAR QUAD	01698	SN74LS279AN
A15U55	1820–3518	1	IC–INTERFACE XCVR MISC/UNKNOWN	03406	DS75162AN
A15U56	1820–2548	1	IC–GENERAL PURPOSE INTERFACE BUS ADAPTER	01698	

Replaceable Parts List for A15 CPU Assembly, Part Number 08360–60015 (5 of 5)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A15U57	1820–0065	1	IC FF TTL J–K POS–EDGE–TRIG CLEAR	01698	SN7470N
A15U58	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A15U59	1826–1431	1	IC V RGLTR–V–REF–FXD 4.9975/5.0025V	10858	LT1021CCN8–5
A15VR1	1902–0948	1	DIODE–ZNR 3.9V 5% DO–35 PD=.4W TC=–.012%	02037	SZ30035–6RL
A15W1	1460–2201	1	SPRING RADIAL TEST POINT		
A15W2	1460–2201	1	SPRING RADIAL TEST POINT		
A15X1	1200–0607	2	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	02414	DILB16P–308T
A15X2	1200–0567	2	SOCKET–IC–DIP 28–CONT DIP DIP–SLDR	02414	DILB28P–308T
A15X3	1200–1326		SOCKET–IC–DIP 32–CONT DIP DIP–SLDR	05518	832–AG12D



NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

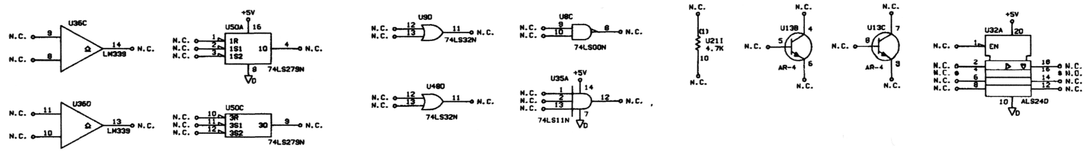
HEWLETT PACKARD

A15 CPU

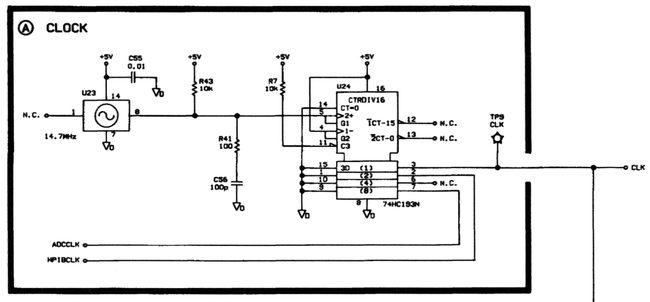
08360-60015

NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

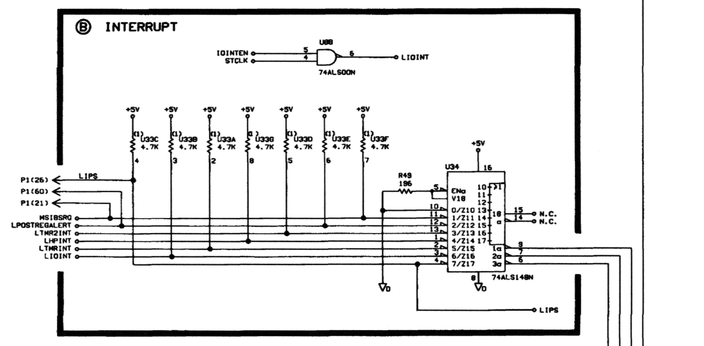
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LAST USED	NOT USED
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I4, P2, Q1, RS1, S1,	C34-35, C39, C45-46,
TP15, U60, VR1, W1	CR3-5, 8, 11, 14-19
	R4-6, 13-14, R21
	R22, 39, 42



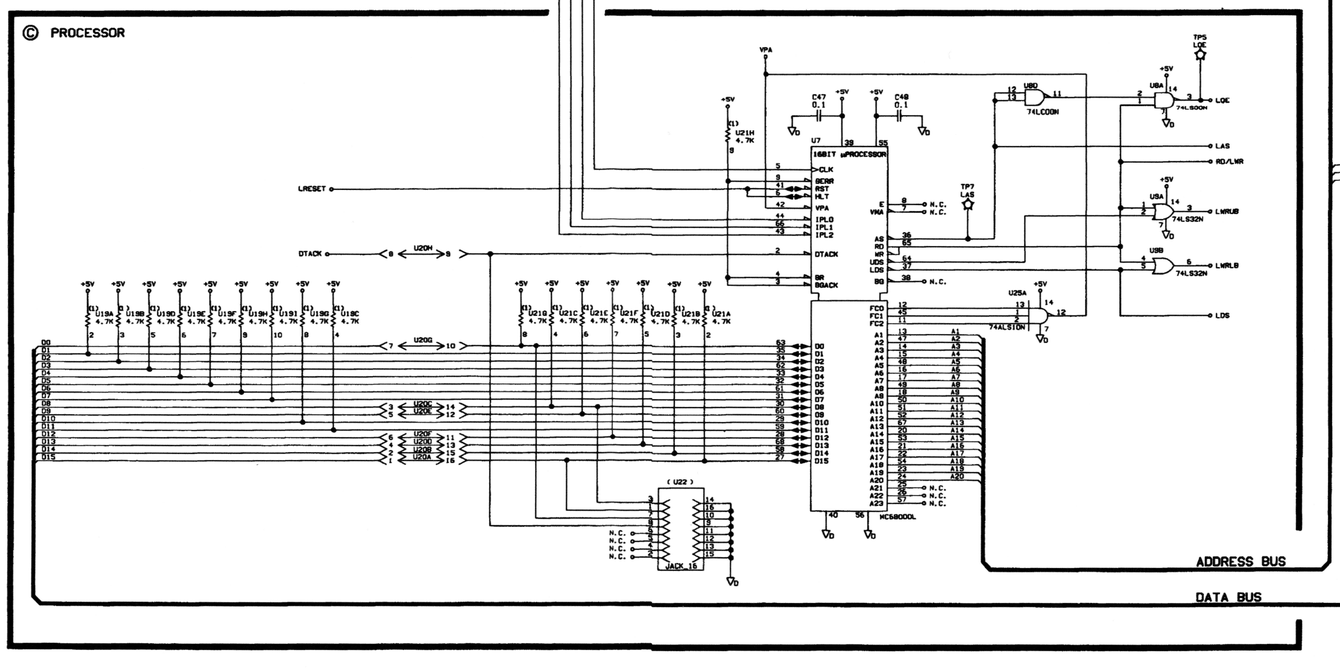
Ⓐ CLOCK



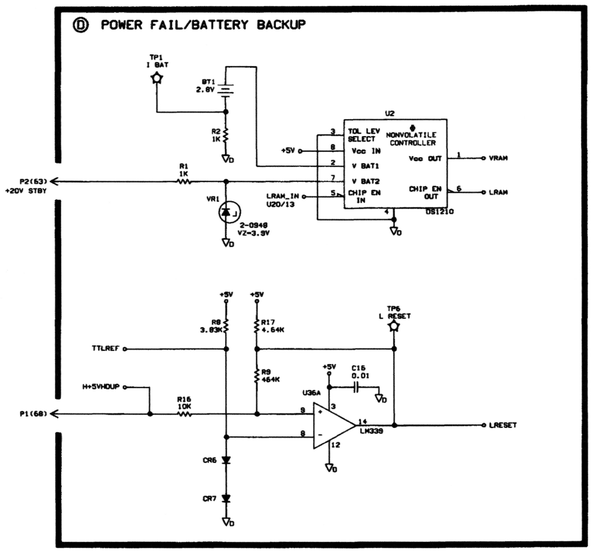
Ⓑ INTERRUPT



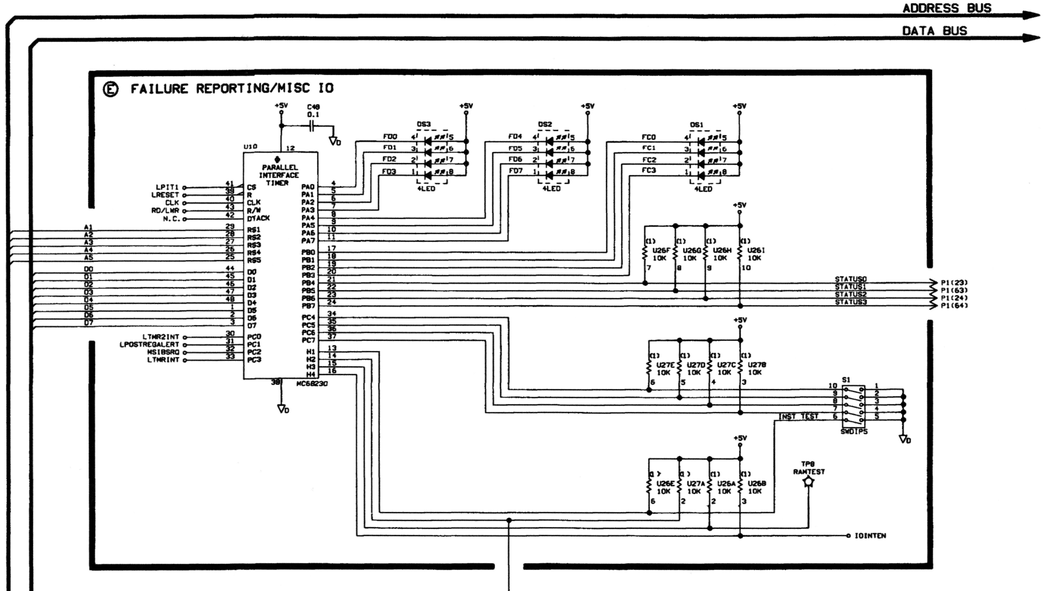
Ⓒ PROCESSOR



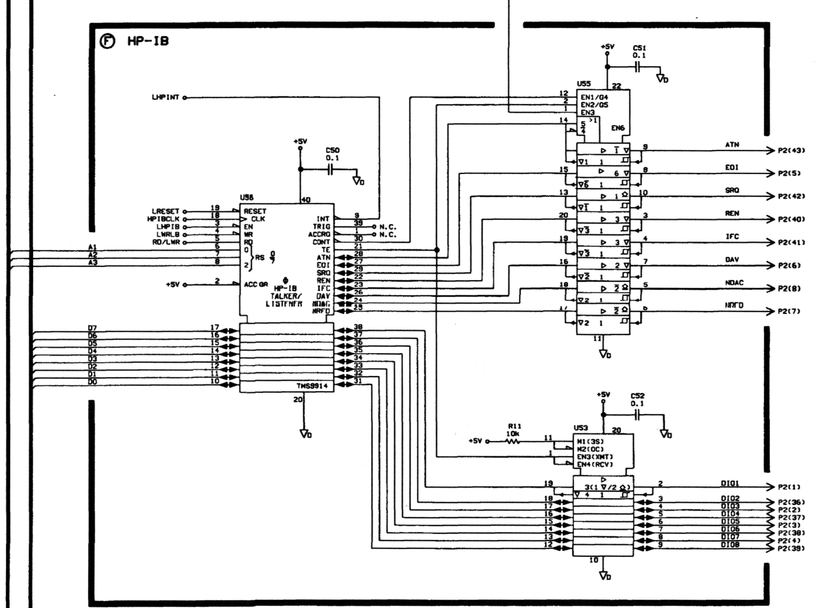
Ⓓ POWER FAIL/BATTERY BACKUP



Ⓔ FAILURE REPORTING/MISC IO



Ⓕ HP-IB



A15 CPU
08360-60015
(SHEET 1 of 3)

Ⓗ ADDRESS DECODING

Ⓚ INSTRUMENT BUS INTERFACE

Ⓙ MEMORY

Ⓛ SELF TEST

A15 CPU
08360-60015
(SHEET 2 of 3)

Ⓜ INSTRUMENT STATUS MONITORING ADC CONTROL

LPOSTREGALERT
M+5VHOUP
P1(36) LREFUNLK
P1(80) LHCTUNLK
P1(75) LYOUNLK
P1(77) LFNUNLK
P1(38) L200UNLK
P1(38) LUNLVL_HI
P1(78) LUNLVL_LO
LMISCIOWR
LMISCIORD
CLRTRIG
ADDRESS BUS
DATA BUS
P1(5) HOVC
LPIT2
LRESET
CLK
RD/LWR
LTMR21INT
LIPS
P2(66) MSIB_TAKE_CNTRL
P2(30) MSIB_TST_OK
P2(65) PARSER_IDLE
P1(61) EXTTRIG
P1(76) LFHOVRHOD
P1(40) LDISRUSY
P1(37) LEXTRIG
P1(78) LFPSRQ
P1(35) LSWPEVNT

Ⓝ ADC

P2(58) ABUS1
P2(24) ABUS2
P2(59) ABUS3
P2(25) ABUS4
P2(27) PARLVL
P2(60) ADCSPARE
TTLREF
ADCCLK
+15V
-15V
+5V
-5.2VA
DGND
AGND

Ⓟ POWER SUPPLIES

P2(10) P2(11) P2(45) P2(46) → +15V
P1(33) P1(34) P1(73) P1(74) → +5V
P1(28) P1(30) P1(31) P1(32) P1(69) P1(70) P1(71) P1(72) → DGND
P2(8) P2(12) P2(15) P2(17) P2(20) P2(44) P2(47) P2(50) P2(52) P2(55) → AGND
P2(18) P2(19) P2(53) P2(54) → -5.2VA
P2(13) P2(14) P2(48) P2(49) → -15V
P2(26) P2(61) → VR

A15 CPU
08360-60015
(SHEET 3 of 3)

Schematic Package for 08360-60215 A15 CPU

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Information in this document is subject to change without notice. The configuration of some assemblies may differ from that indicated in this document.



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Replaceable Parts List for A15 CPU Assembly, Part Number 08360–60215 (1 of 5)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A15	08360–60215	1	BOARD ASSY–CPU	28480	08360–60215
A15BT1	1420–0275	1	BATTERY 2.8V .7A–HR LI/I PIN	08781	3440 W/DP PACKAGING
A15C1	0180–3731	1	CAP–FXD 1000uF ±20% 10 V AL–ELCTLT	00493	KM10T102M10X30LL
A15C2	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C4	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C6	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C9	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A15C10	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C11	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A15C12	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C16	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C17	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C18	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C19	0180–3622	1	CAP–FXD 0.1uF ±10% 35 V TA	04200	173D104X9035U
A15C20	0180–4129	1	CAP–FXD 1uF ±10% 35 V TA	04200	173D105X9035V
A15C22	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C23	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C24	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C25	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C26	0180–4136	1	CAP–FXD 10uF ±10% 20 V TA	04200	173D106X9020W
A15C27	0180–4136	1	CAP–FXD 10uF ±10% 20 V TA	04200	173D106X9020W
A15C28	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C29	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C30	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C31	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C33	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C36	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C37	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C38	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C40	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C41	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C42	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C43	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C44	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C47	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C48	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C49	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C50	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C51	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C52	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C53	0180–3731	1	CAP–FXD 1000uF ±20% 10 V AL–ELCTLT	00493	KM10T102M10X30LL
A15C54	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15C55	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A15C56	0160–4801	1	CAP–FXD 100pF ±5% 100 V CER C0G	02010	SA102A101JAAH
A15C57	0180–4136	1	CAP–FXD 10uF ±10% 20 V TA	04200	173D106X9020W
A15C58	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH

Replaceable Parts List for A15 CPU Assembly, Part Number 08360–60215 (2 of 5)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A15C59	0160–4574	1	CAP–FXD 1000pF ±10% 100 V CER X7R	02010	SA101C102KAAH
A15C63	0180–4136	1	CAP–FXD 10uF ±10% 20 V TA	04200	173D106X9020W
A15C64	0180–4136	1	CAP–FXD 10uF ±10% 20 V TA	04200	173D106X9020W
A15C65	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A15CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A15CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A15CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A15CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A15CR13	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A15CR14	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A15CR20	1901–0731	1	DIODE–PWR RECT 400V 1A	02037	1N4004
A15CR23	1901–0518	1	DIODE–SCHOTTKY SM SIG	02062	5082–5509
A15CR24	1901–0518	1	DIODE–SCHOTTKY SM SIG	02062	5082–5509
A15CR25	1901–0518	1	DIODE–SCHOTTKY SM SIG	02062	5082–5509
A15DS1	1990–0652	1	LED–LAMP ARRAY LUM–INT=200UCD IF=5MA–MAX	01542	HLMP–6620 SELECTED
A15DS2	1990–0652	1	LED–LAMP ARRAY LUM–INT=200UCD IF=5MA–MAX	01542	HLMP–6620 SELECTED
A15DS3	1990–0652	1	LED–LAMP ARRAY LUM–INT=200UCD IF=5MA–MAX	01542	HLMP–6620 SELECTED
A15E1	1251–2194	1	CONNECTOR–SGL CONT SKT .021–IN–BSC–SZ	01380	3–331272–0
A15E2	1251–2194	1	CONNECTOR–SGL CONT SKT .021–IN–BSC–SZ	01380	3–331272–0
A15E3	1251–2194	1	CONNECTOR–SGL CONT SKT .021–IN–BSC–SZ	01380	3–331272–0
A15E4	1251–2194	1	CONNECTOR–SGL CONT SKT .021–IN–BSC–SZ	01380	3–331272–0
A15L1	9140–1341	1	INDUCTOR 50UH ±10% .75W–INX.75LG–IN	03273	51–482
A15L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A15L4	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A15L5	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A15L6	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A15L7	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A15MP2	0403–0630	1	EXTR–PC BD BRN NYL .062–IN–BD–THKNS	02123	91–2–BROWN–9
A15MP3	0403–0623	1	EXTR–PC BD GRN NYL .062–IN–BD–THKNS	02123	91–2–GREEN–3
A15P1	1251–7907	1	CONN–POST TYPE .100–PIN–SPCG 80–CONT	01380	534204–8
A15P2	1251–8786	1	CONN–POST TYPE .100–PIN–SPCG 70–CONT	01380	1–534204–3
A15Q2	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A15R1	0698–3447	1	RESISTOR 422 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R2	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R3	0698–3437	1	RESISTOR 133 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R7	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R8	0698–3153	1	RESISTOR 3.83K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R9	0698–3260	1	RESISTOR 464K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R10	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R11	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R16	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R17	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R23	0757–0462	1	RESISTOR 75K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R24	0757–0199	1	RESISTOR 21.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R25	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A15 CPU Assembly, Part Number 08360–60215 (3 of 5)

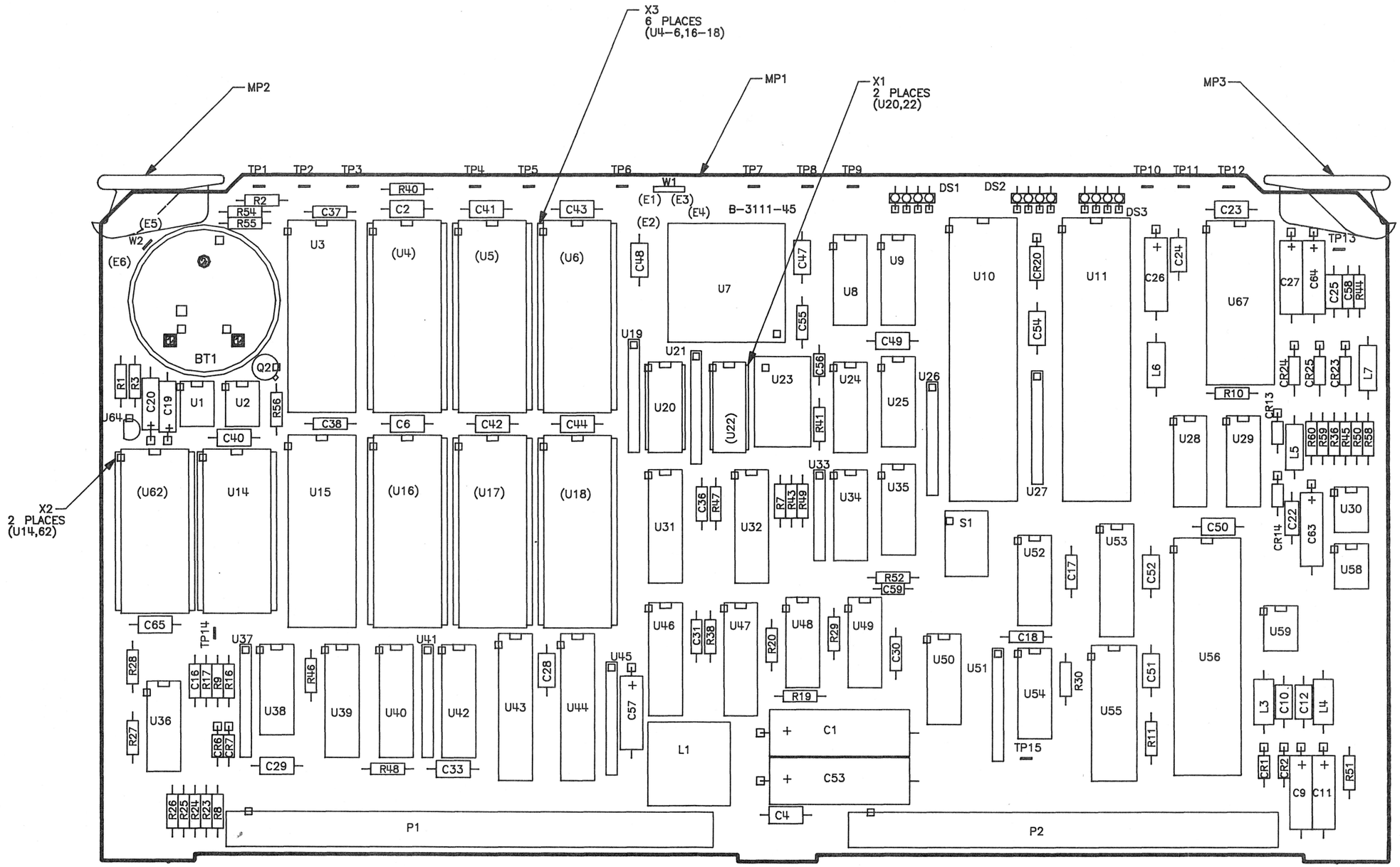
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A15R26	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R27	0698–3160	1	RESISTOR 31.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R28	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R29	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R30	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R36	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A15R38	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R40	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R41	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R43	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R44	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R45	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R46	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R47	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R48	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R50	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A15R51	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R53	0698–3440	4	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R54	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R55	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R56	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A15R58	0698–6348	1	RESISTOR 3K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A15R59	0698–6348	1	RESISTOR 3K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A15R60	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A15S1	3101–2340	1	SWITCH–DIP RKR 5–1A 0.05A 30VDC	04990	76PSB05S
A15TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP11	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP12	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP13	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP14	1460–2201	1	SPRING RADIAL TEST POINT		
A15TP15	1460–2201	1	SPRING RADIAL TEST POINT		
A15U1	1820–5497	1	IC–NONVOLATILE MEMORY CONTROLLER	12186	DS1210
A15U2	1820–5497	1	IC–NONVOLATILE MEMORY CONTROLLER	12186	DS1210
A15U3	1818–4604	1	IC 1M SRAM 120–NS CMOS	06347	HM628128LP–12
A15U6		1	Order 08360–60201 Firmware Upgrade Kit		
A15U7	1820–3926	1	IC–16BIT, 10MHZ, PIN–GRID–ARRAY PKG. MPU	02037	MC68000R10

Replaceable Parts List for A15 CPU Assembly, Part Number 08360–60215 (4 of 5)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A15U8	1820–2656	1	IC GATE TTL/ALS NAND QUAD 2–INP	01698	SN74ALS00AN
A15U9	1820–2657	1	IC GATE TTL/ALS OR QUAD 2–INP	01698	SN74ALS32N
A15U10	1820–3832	1	IC–PARALLEL INTERFACE/TIMER/8MHZ/MC68000	02037	MC68230P8
A15U11	1820–3832	1	IC–PARALLEL INTERFACE/TIMER/8MHZ/MC68000	02037	MC68230P8
A15U14	1818–4075	1	IC 256K EEPROM 350–NS NMOS	10572	X28256P–35
A15U15	1818–4604	1	IC 1M SRAM 120–NS CMOS	06347	HM628128LP–12
A15U18		1	Order 08360–60201 Firmware Upgrade Kit		
A15U19	1810–0279	1	NETWORK–RES 10–SIP 4.7K OHM X 9	05524	MSP10A01
A15U20	1251–4787	1	SHUNT–DIP 8 POSITION; DUAL INLINE PKG	01380	435704–8
A15U21	1810–0279	1	NETWORK–RES 10–SIP 4.7K OHM X 9	05524	MSP10A01
A15U23	1813–0196	1	CLOCK–OSCILLATOR–XTAL 14.7456–MHZ	01417	HS–109–14.7456
A15U24	1820–3205	1	IC CNTR CMOS/HC BIN UP/DOWN SYNCHRO	03406	MM74HC193N
A15U25	1820–2775	1	IC GATE TTL/ALS NAND TPL 3–INP	01698	SN74ALS10AN
A15U26	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A15U27	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A15U28	1820–1281	1	IC DCDR TTL/LS BIN 2–TO–4–LINE DUAL	01698	SN74LS139AN
A15U29	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A15U30	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A15U31	08360–80021	1	PROG. LOGIC ARRAY		
A15U32	1820–2951	1	IC DRVR TTL/ALS BUS OCTL	01698	SN74ALS240AN
A15U33	1810–0205	1	NETWORK–RES 8–SIP 4.7K OHM X 7	02483	750–81
A15U34	1820–1851	1	IC ENCDR TTL/LS PRIORITY 8–TO–3–LINE	01698	SN74LS148N
A15U35	1820–2889	1	IC GATE TTL/ALS AND TPL 3–INP	01698	SN74ALS11AN
A15U36	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A15U37	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A15U38	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A15U39	1820–3082	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC374N
A15U40	1820–3082	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC374N
A15U41	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A15U42	1820–2998	1	IC LCH CMOS/HC TRANSPARENT OCTL	02037	MC74HC373N
A15U43	1820–2675	1	IC TRANSCEIVER TTL/LS BUS OCTL	01698	SN74LS646NT
A15U44	1820–2675	1	IC TRANSCEIVER TTL/LS BUS OCTL	01698	SN74LS646NT
A15U45	1810–0279	1	NETWORK–RES 10–SIP 4.7K OHM X 9	05524	MSP10A01
A15U46	08360–80003	1	PROG. LOGIC ARRAY		
A15U47	08360–80001	1	PROG. LOGIC ARRAY		
A15U48	1820–2739	1	IC GATE TTL/ALS NOR QUAD 2–INP	01698	SN74ALS02N
A15U49	1820–2488	1	IC FF TTL/ALS D–TYPE POS–EDGE–TRIG	01698	SN74ALS74AN
A15U50	1820–1440	1	IC LCH TTL/LS R–BAR S–BAR QUAD	01698	SN74LS279AN
A15U51	1810–0280	1	NETWORK–RES 10–SIP 10.0K OHM X 9	05524	MSP10A01
A15U52	1820–1440	1	IC LCH TTL/LS R–BAR S–BAR QUAD	01698	SN74LS279AN
A15U53	1820–3431	1	IC–INTERFACE XCVR MISC/UNKNOWN	03406	DS75160AN
A15U54	1820–1440	1	IC LCH TTL/LS R–BAR S–BAR QUAD	01698	SN74LS279AN
A15U55	1820–3518	1	IC–INTERFACE XCVR MISC/UNKNOWN	03406	DS75162AN
A15U56	1820–2548	1	IC–GENERAL PURPOSE INTERFACE BUS ADAPTER	01698	
A15U58	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ

Replaceable Parts List for A15 CPU Assembly, Part Number 08360–60215 (5 of 5)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A15U59	1826–1431	1	IC V RGLTR–V–REF–FXD 4.9975/5.0025V	10858	LT1021CCN8–5
A15U64	1826–0772	1	IC V RGLTR–ADJ–POS 1.2/32V TO–92 PKG	02037	LM317LZ
A15U67	1826–2305	1	A/D 12–BIT 28–PLASTIC CMOS	03406	ADC1241BIJ
A15W1	1258–0124	1	SHUNT–PROGRAMMABLE 1 DBL PIN SET; .100	05518	8136–475G1
A15W2	1460–2201	1	SPRING RADIAL TEST POINT		
A15X1	1200–0607	2	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	02414	DILB16P–308T
A15X2	1200–0567	2	SOCKET–IC–DIP 28–CONT DIP DIP–SLDR	02414	DILB28P–308T
A15X3	1200–1314	6	SOCKET–IC–DIP 32–CONT DIP DIP–SLDR	01380	2–644018–1



NOTES: UNLESS OTHERWISE SPECIFIED

1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
   SOLDERING PER A-5951-1585-1 (741.070F)
   REWORK PER A-5951-1586-1 (741.070G)
2. U6, U18, U22, E5, AND E6 LOADED DURING A LATER PROCESS
3. U4,5,16,17,62 NOT LOADED, INTENDED FOR FUTURE MEMORY INCREASES.

HEWLETT PACKARD

A15 CPU

08360-60215

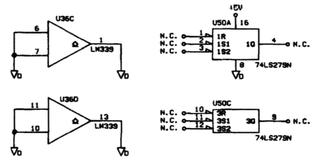
NOTES: UNLESS OTHERWISE SPECIFIED.

1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

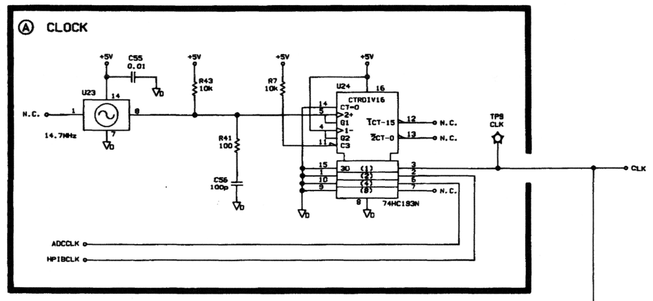
E5,6,U6,U18,U22 NOT LOADED.

U4,5,16,17,62 SHOWN FOR REFERENCE. INTENDED FOR FUTURE MEMORY INCREASES.

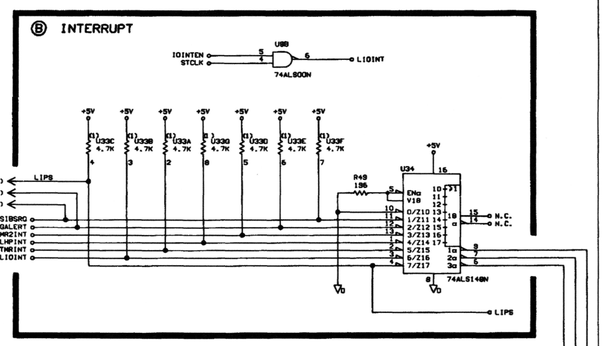
REFERENCE DESIGNATORS	
LAST USED	NOT USED
BT1, D65, CR25, DS3	C3, 5, 7, 8, 13-15, 21, C32, 34, 35, 38, 45, C46, 61, 62, CR3-5, CR8-12, 15-19, 21, L2 Q1, R4-6, 12-15, 18, R21, 22, 31-35, 37, R39, 42, 57, U12, 13, U57, 60, 61, 63, 65, 66 C60, CR22, R53, R61
E6, L7, P2, Q2, R61, TP15, U67, W1, S1	



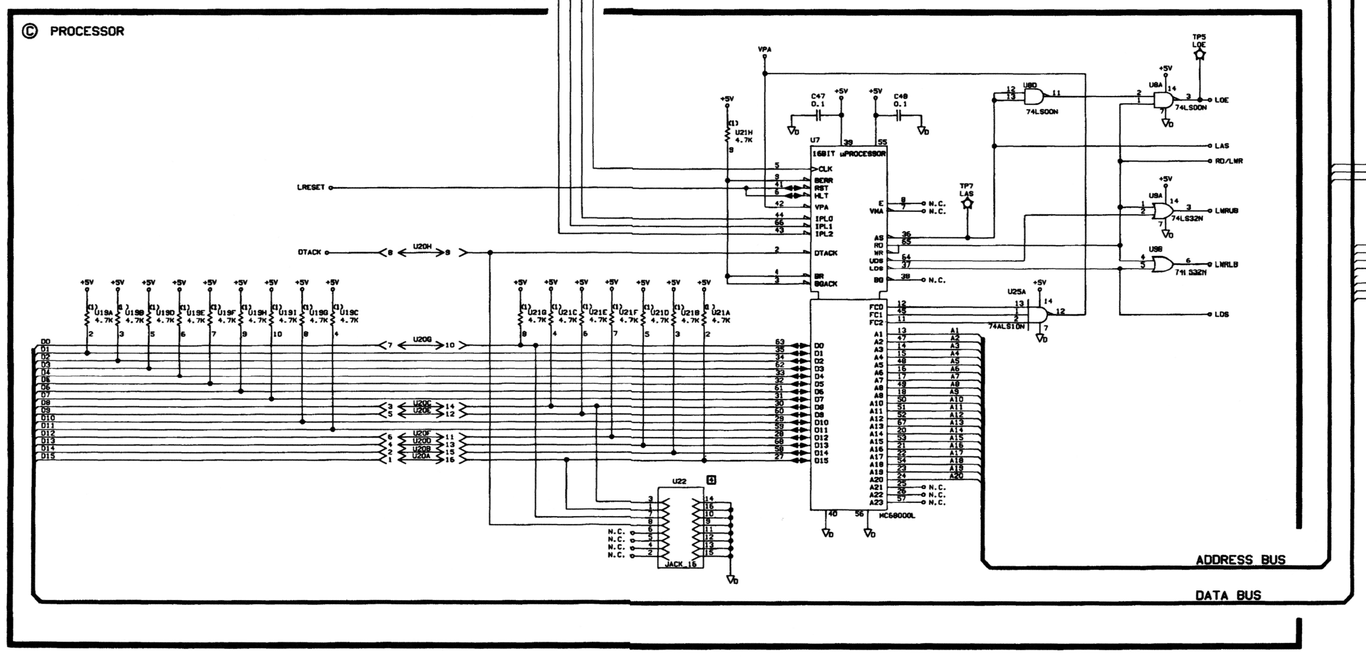
A CLOCK



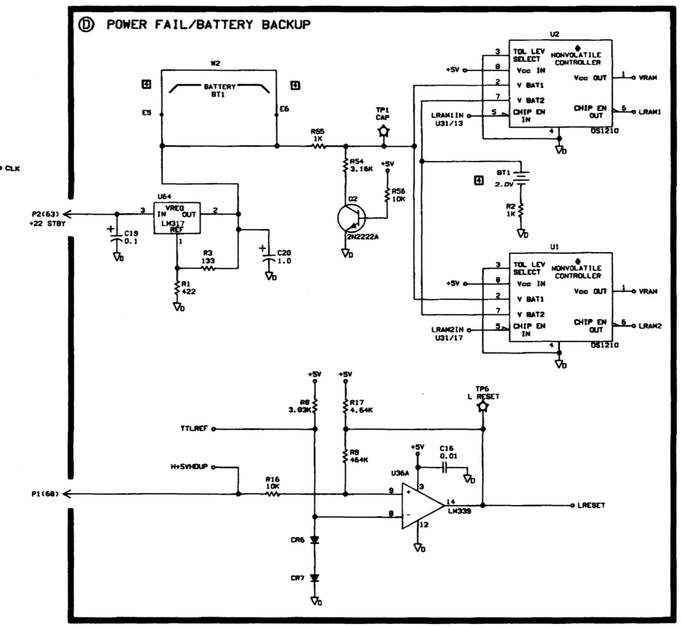
B INTERRUPT



C PROCESSOR



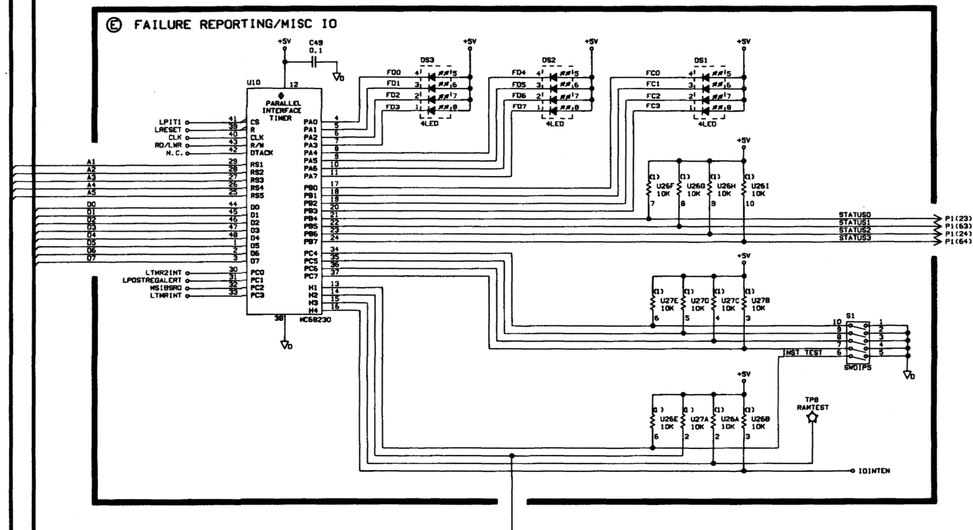
D POWER FAIL/BATTERY BACKUP



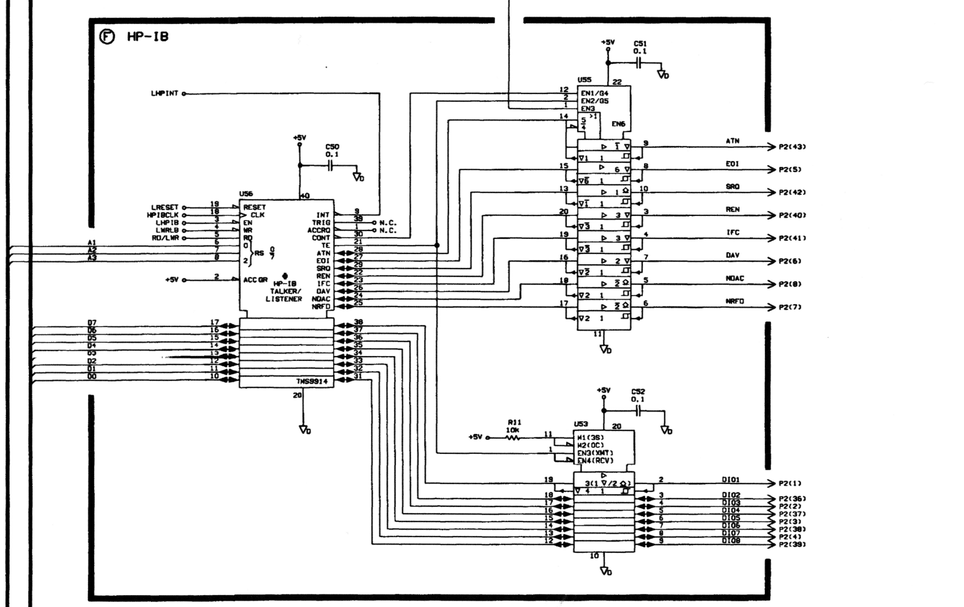
ADDRESS BUS

DATA BUS

E FAILURE REPORTING/MISC IO



F HP-IB



A15 CPU
08360-60215
(SHEET 1 of 3)

Ⓗ ADDRESS DECODING

Ⓚ INSTRUMENT BUS INTERFACE

Ⓙ MEMORY

Ⓛ SELF TEST

DATA BUS

ADDRESS BUS

A15 CPU
08360-60215
(SHEET 2 of 3)

Ⓗ INSTRUMENT STATUS MONITORING ADC CONTROL

LPOSTREGALERT
H+5VHOUP
P1(36) LREFUNLK
P1(80) LMETUNLK
P1(75) LYOUNLK
P1(77) LFNUNLK
P1(38) L20DUNLK
P1(39) LUNLVL_HI
P1(78) LUNLVL_LO
LMISCIOWR
LMISCIORD
CLRTRIG
LTHR2INT
P2(66) MSIB_TAKE_CNTRL
P2(30) LMSIB_FAIL
P2(65) PARSER_IDLE
P1(61) EXTTRIG
P1(76) LFMOVRMOD
P1(40) LDISBUSY
P1(32) LEXTRCF
P1(79) LFPSRQ
P1(35) LSHPEVNT
HDVC
LPITZ
LRESET
LCLK
LRD/LWR
LCS
LIPS

Ⓝ ADC

P2(58) ABUS1
P2(24) ABUS2
P2(58) ABUS3
P2(25) ABUS4
P2(27) MUXLVL
P2(60) ADCSPARE
DVM
ADCCLK
LMISCIORD
N.C.

Ⓟ POWER SUPPLIES

P2(10) P2(11) P2(45) P2(46) → +15V
P1(33) P1(34) P1(73) P1(74) → +5V
DGND: P1(29) P1(30) P1(31) P1(32) P1(68) P1(70) P1(71) P1(72)
AGND: P2(9) P2(12) P2(15) P2(17) P2(20) P2(44) P2(47) P2(50) P2(52) P2(55)
P2(18) P2(19) P2(53) P2(54) → -5.2VA
P2(3) P2(4) P2(48) P2(49) → -15V
P2(26) P2(61)

ADDRESS BUS
DATA BUS

A15 CPU
08360-60215
(SHEET 3 of 3)

Schematic Package for 08360-60016 A16 Post Regulator

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HEWLETT PACKARD

Replaceable Parts List for A16 Post Regulator Assembly, Part Number 08360–60016 (1 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A16	08360–60016	1	BD ASSY–POST REG	28480	08360–60016
A16C1	0160–3879	1	CAP–FXD 0.01uF ±20% 100 V CER X7R	02010	SR201C103MAAH
A16C2	0180–4168	1	CAP–FXD 47uF ±10% 20 V TA	12340	T322E476K020AS
A16C3	0160–0575	1	CAP–FXD 0.047uF ±20% 50 V CER X7R	02010	SR205C473MAAH
A16C4	0160–4535	1	CAP–FXD 1uF ±10% 50 V CER X7R	09939	RPE113–130X7R105K50V
A16C5	0160–0575	1	CAP–FXD 0.047uF ±20% 50 V CER X7R	02010	SR205C473MAAH
A16C7	0180–3831	1	CAP–FXD 10uF ±10% 35 V TA	04200	299D106X9035DB1
A16C8	0160–4535	1	CAP–FXD 1uF ±10% 50 V CER X7R	09939	RPE113–130X7R105K50V
A16C9	0180–3849	1	CAP–FXD 47uF ±10% 10 V TA	04200	299D476X9010DB1
A16C10	0160–0575	1	CAP–FXD 0.047uF ±20% 50 V CER X7R	02010	SR205C473MAAH
A16C11	0160–0575	1	CAP–FXD 0.047uF ±20% 50 V CER X7R	02010	SR205C473MAAH
A16C12	0160–4741	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	02010	SR305C224KAAH
A16C13	0160–0572	1	CAP–FXD 2200pF ±20% 100 V CER X7R	02010	SR201C222MAAH
A16C14	0180–3771	1	CAP–FXD 1uF ±10% 35 V TA	04200	299D105X9035AB1
A16C15	0180–3845	1	CAP–FXD 4.7uF ±10% 35 V TA	04200	299D475X9035CB1
A16C18	0160–4741	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	02010	SR305C224KAAH
A16C19	0160–0573	1	CAP–FXD 4700pF ±20% 100 V CER X7R	02010	SR201C472MAAH
A16C20	0180–3771	1	CAP–FXD 1uF ±10% 35 V TA	04200	299D105X9035AB1
A16C21	0180–3845	1	CAP–FXD 4.7uF ±10% 35 V TA	04200	299D475X9035CB1
A16C22	0180–3770	1	CAP–FXD 2.2uF ±10% 35 V TA	04200	299D225X9035BB1
A16C23	0160–0575	1	CAP–FXD 0.047uF ±20% 50 V CER X7R	02010	SR205C473MAAH
A16C24	0160–0573	1	CAP–FXD 4700pF ±20% 100 V CER X7R	02010	SR201C472MAAH
A16C25	0180–2610	1	CAP–FXD 10uF ±10% 75 V TA	04200	150D106X9075R2
A16C26	0180–4082	1	CAP–FXD 2.2uF ±10% 125 V TA	12340	T110B225K125AS
A16C27	0160–3878	1	CAP–FXD 1000pF ±20% 100 V CER X7R	02010	SR201C102MAAH
A16C29	0160–4741	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	02010	SR305C224KAAH
A16C30	0160–3879	1	CAP–FXD 0.01uF ±20% 100 V CER X7R	02010	SR201C103MAAH
A16C31	0180–3771	1	CAP–FXD 1uF ±10% 35 V TA	04200	299D105X9035AB1
A16C32	0160–0575	1	CAP–FXD 0.047uF ±20% 50 V CER X7R	02010	SR205C473MAAH
A16C33	0180–3845	1	CAP–FXD 4.7uF ±10% 35 V TA	04200	299D475X9035CB1
A16C34	0180–3770	1	CAP–FXD 2.2uF ±10% 35 V TA	04200	299D225X9035BB1
A16C35	0160–0575	1	CAP–FXD 0.047uF ±20% 50 V CER X7R	02010	SR205C473MAAH
A16C36	0160–4741	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	02010	SR305C224KAAH
A16C37	0180–3771	1	CAP–FXD 1uF ±10% 35 V TA	04200	299D105X9035AB1
A16C38	0160–0573	1	CAP–FXD 4700pF ±20% 100 V CER X7R	02010	SR201C472MAAH
A16C39	0160–0575	1	CAP–FXD 0.047uF ±20% 50 V CER X7R	02010	SR205C473MAAH
A16C40	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1
A16C41	0180–3143	1	CAP–FXD 3.3uF ±10% 75 V TA	04200	150D335X9075B2
A16C42	0160–0575	1	CAP–FXD 0.047uF ±20% 50 V CER X7R	02010	SR205C473MAAH
A16C43	0180–3845	1	CAP–FXD 4.7uF ±10% 35 V TA	04200	299D475X9035CB1
A16C44	0160–0574	1	CAP–FXD 0.022uF ±20% 100 V CER X7R	02010	SR201C223MAAH
A16C45	0160–0575	1	CAP–FXD 0.047uF ±20% 50 V CER X7R	02010	SR205C473MAAH
A16C46	0180–4365	1	CAP–FXD 18uF ±10% 50 V TA	12340	T322F186K050AS
A16C47	0160–0575	1	CAP–FXD 0.047uF ±20% 50 V CER X7R	02010	SR205C473MAAH
A16C48	0180–3770	1	CAP–FXD 2.2uF ±10% 35 V TA	04200	299D225X9035BB1
A16C49	0160–4741	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	02010	SR305C224KAAH

Replaceable Parts List for A16 Post Regulator Assembly, Part Number 08360–60016 (2 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A16C50	0160–0574	1	CAP–FXD 0.022uF ±20% 100 V CER X7R	02010	SR201C223MAAH
A16C51	0180–3771	1	CAP–FXD 1uF ±10% 35 V TA	04200	299D105X9035AB1
A16C52	0160–0575	1	CAP–FXD 0.047uF ±20% 50 V CER X7R	02010	SR205C473MAAH
A16C53	0180–3833	1	CAP–FXD 22uF ±10% 10 V TA	04200	299D226X9010CB1
A16C54	0160–0575	1	CAP–FXD 0.047uF ±20% 50 V CER X7R	02010	SR205C473MAAH
A16C55	0160–0575	1	CAP–FXD 0.047uF ±20% 50 V CER X7R	02010	SR205C473MAAH
A16C56	0160–0575	1	CAP–FXD 0.047uF ±20% 50 V CER X7R	02010	SR205C473MAAH
A16CR1	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A16CR2	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A16CR3	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A16CR4	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A16CR5	1901–0731	1	DIODE–PWR RECT 400V 1A	02037	1N4004
A16CR6	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A16CR7	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A16CR8	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A16CR11	1901–1081	1	DIODE–PWR RECT 100V 3A	02037	1N5401
A16CR12	1901–1081	1	DIODE–PWR RECT 100V 3A	02037	1N5401
A16CR13	1901–1081	1	DIODE–PWR RECT 100V 3A	02037	1N5401
A16CR14	1901–1081	1	DIODE–PWR RECT 100V 3A	02037	1N5401
A16CR15	1901–1081	1	DIODE–PWR RECT 100V 3A	02037	1N5401
A16CR16	1901–1081	1	DIODE–PWR RECT 100V 3A	02037	1N5401
A16CR17	1901–1081	1	DIODE–PWR RECT 100V 3A	02037	1N5401
A16DS1	1990–1275	1	LED–LAMP LUM–INT=1.5MCD IF=50MA–MAX	01542	HLMP–1002–101
A16DS2	1990–1275	1	LED–LAMP LUM–INT=1.5MCD IF=50MA–MAX	01542	HLMP–1002–101
A16DS3	1990–1079	1	LED–LAMP LUM–INT=1MCD IF=25MA–MAX BVR=5V	01542	HLMP–1503–101
A16DS4	1990–1079	1	LED–LAMP LUM–INT=1MCD IF=25MA–MAX BVR=5V	01542	HLMP–1503–101
A16DS5	1990–1079	1	LED–LAMP LUM–INT=1MCD IF=25MA–MAX BVR=5V	01542	HLMP–1503–101
A16DS6	1990–1079	1	LED–LAMP LUM–INT=1MCD IF=25MA–MAX BVR=5V	01542	HLMP–1503–101
A16DS7	1990–1079	1	LED–LAMP LUM–INT=1MCD IF=25MA–MAX BVR=5V	01542	HLMP–1503–101
A16DS8	1990–1079	1	LED–LAMP LUM–INT=1MCD IF=25MA–MAX BVR=5V	01542	HLMP–1503–101
A16DS9	1990–1079	1	LED–LAMP LUM–INT=1MCD IF=25MA–MAX BVR=5V	01542	HLMP–1503–101
A16DS10	1990–1079	1	LED–LAMP LUM–INT=1MCD IF=25MA–MAX BVR=5V	01542	HLMP–1503–101
A16F1	2110–0047	1	FUSE (INCH) 1A 125V NTD BI	02805	GMW–1
A16F2	2110–0618	1	FUSE (INCH) 5A 125V NTD BI	02805	GMW–5
A16F3	2110–0713	1	FUSE–SUBMINIATURE 10A 125V NTD AX UL CSA	04703	R251010T1
A16F4	2110–0713	1	FUSE–SUBMINIATURE 10A 125V NTD AX UL CSA	04703	R251010T1
A16F5	2110–0618	1	FUSE (INCH) 5A 125V NTD BI	02805	GMW–5
A16F6	2110–0618	1	FUSE (INCH) 5A 125V NTD BI	02805	GMW–5
A16F7	2110–0425	1	FUSE (INCH) 2A 125V NTD BI	02805	GMW 2A
A16F8	2110–0425	1	FUSE (INCH) 2A 125V NTD BI	02805	GMW 2A
A16L1	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A16MP2	0403–0630	1	EXTR–PC BD BRN NYL .062–IN–BD–THKNS	02123	91–2–BROWN–9
A16MP3	0403–0629	1	EXTR–PC BD BLU NYL .062–IN–BD–THKNS	02123	91–2–BLUE–2
A16MP4	08360–20038	1			
A16MP5	1205–0095	3	HEAT SINK SGL TO–5/TO–39–CS	02608	2225B

Replaceable Parts List for A16 Post Regulator Assembly, Part Number 08360–60016 (3 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A16MP6	1200–0173	3	INSULATOR–XSTR DAP–GL	02210	A–10001 DAP
A16MP7	0340–1170	9	INSULATOR–XSTR THRM–CNDCT	05447	K10AC–58
A16MP8	3050–1309	9	WASHER–SHLDR NM .1–IN–ID .234–IN–OD NYL	07041	5662–N–137–040–100
A16MP9	1205–0633	1	HEAT SINK TO–92–CS	05792	RUR671CB
A16MP10	0515–1941	9	SCREW–MACHINE ASSEMBLY M2.5 X 0.45	01125	
A16MP11	1200–0081	14	INSULATOR–FLG–BSHG NYLON	03380	974 307
A16MP12	0570–0639	14	STD–PRS–IN M3 X 0.5 12.000 PH–BRZ	03981	KFH–M3–12–ET
A16MP14	0535–0031	14	NUT–HEX W/LKWR M3 X 0.5 2.4MM–THK	06691	
A16MP15	0340–1114	7	INSULATOR–XSTR THRM–CNDCT	05447	K–4–05
A16MP16	0400–0018	1	GROMMET–CHAN NCH .056–IN–GRV–WD	01963	G–51H–A
A16MP17	0515–0367	1	SCREW–MACHINE ASSEMBLY M2.5 X 0.45	05610	
A16P1	1251–7907	1	CONN–POST TYPE .100–PIN–SPCG 80–CONT	01380	534204–8
A16Q1	1855–0517	1	TRANSISTOR MOSFET P–CHAN E–MODE TO–220	03038	IRF9532
A16Q2	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A16Q3	1854–0637	1	TRANSISTOR NPN 2N2219A SI TO–5 PD=800MW	02037	2N2219A
A16Q4	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A16Q5	1884–0293	1	THYRISTOR–SCR	02037	MCR69–2
A16Q6	1884–0293	1	THYRISTOR–SCR	02037	MCR69–2
A16Q7	1853–0314	1	TRANSISTOR PNP 2N2905A SI TO–39 PD=400MW	02037	2N2905A
A16Q8	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A16Q9	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A16Q10	1853–0371	1	TRANSISTOR PNP 2N6107 SI TO–220AB	02037	2N6107
A16Q11	1853–0314	1	TRANSISTOR PNP 2N2905A SI TO–39 PD=400MW	02037	2N2905A
A16Q12	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A16Q13	1884–0293	1	THYRISTOR–SCR	02037	MCR69–2
A16Q14	1854–0813	1	TRANSISTOR NPN 2N3501 SI TO–39 PD=1W	02037	2N3501(SEL)
A16Q15	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A16Q16	1853–0221	1	TRANSISTOR PNP 2N5416 SI TO–5 PD=1W	03171	2N5416
A16Q17	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A16Q18	1884–0293	1	THYRISTOR–SCR	02037	MCR69–2
A16Q19	1854–0697	1	TRANSISTOR NPN 2N5886 SI TO–3 PD=200W	02037	2N5886
A16Q20	1854–0697	1	TRANSISTOR NPN 2N5886 SI TO–3 PD=200W	02037	2N5886
A16Q21	1854–0743	1	TRANSISTOR NPN 2N5878 SI TO–3 PD=150W	02037	2N5878
A16Q22	1853–0344	1	TRANSISTOR PNP 2N5876 SI TO–3 PD=150W	02037	2N5876
A16Q23	1853–0344	1	TRANSISTOR PNP 2N5876 SI TO–3 PD=150W	02037	2N5876
A16Q24	1853–0344	1	TRANSISTOR PNP 2N5876 SI TO–3 PD=150W	02037	2N5876
A16Q25	1854–0743	1	TRANSISTOR NPN 2N5878 SI TO–3 PD=150W	02037	2N5878
A16Q26	1884–0293	1	THYRISTOR–SCR	02037	MCR69–2
A16Q27	1854–0637	1	TRANSISTOR NPN 2N2219A SI TO–5 PD=800MW	02037	2N2219A
A16Q28	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A16Q29	1854–0637	1	TRANSISTOR NPN 2N2219A SI TO–5 PD=800MW	02037	2N2219A
A16Q30	1884–0293	1	THYRISTOR–SCR	02037	MCR69–2
A16Q31	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A16Q32	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A16Q33	1853–0371	1	TRANSISTOR PNP 2N6107 SI TO–220AB	02037	2N6107

Replaceable Parts List for A16 Post Regulator Assembly, Part Number 08360–60016 (4 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A16Q34	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A16R1	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R2	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R3	0698–3449	1	RESISTOR 28.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R4	0698–3136	1	RESISTOR 17.8K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R5	0698–3136	1	RESISTOR 17.8K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R6	0698–3454	1	RESISTOR 215K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R7	0698–3153	1	RESISTOR 3.83K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R8	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R9	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R10	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R11	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R12	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R13	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R14	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R15	0698–3444	1	RESISTOR 316 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R16	0698–6347	1	RESISTOR 1.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R17	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R18	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R19	0698–6362	1	RESISTOR 1K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R20	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R21	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R25	0757–0422	1	RESISTOR 909 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R26	0698–3159	1	RESISTOR 26.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R27	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R28	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R29	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R30	0698–3159	1	RESISTOR 26.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R31	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R32	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R33	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R34	0757–0289	1	RESISTOR 13.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R35	0757–0730	1	RESISTOR 750 ±1% .25W TF TC=0±100	05524	CMF–60–1, T–1
A16R36	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R37	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R38	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R39	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R40	0811–3825	1	RESISTOR .15 ±3% 3W MFS TC=0±25	05524	LVR–3 0.15 OHM ±3%
A16R41	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R42	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R43	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R44	0757–0730	1	RESISTOR 750 ±1% .25W TF TC=0±100	05524	CMF–60–1, T–1
A16R45	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R46	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R47	0757–0441	1	RESISTOR 8.25K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A16 Post Regulator Assembly, Part Number 08360–60016 (5 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A16R48	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R49	0811–3825	1	RESISTOR .15 ±3% 3W MFS TC=0±25	05524	LVR–3 0.15 OHM ±3%
A16R50	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R51	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R52	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R53	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R54	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R55	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R56	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R57	0698–3153	1	RESISTOR 3.83K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R58	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R59	0698–3153	1	RESISTOR 3.83K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R60	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R61	0757–0458	1	RESISTOR 51.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R62	0698–6624	1	RESISTOR 2K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R63	0698–6322	1	RESISTOR 4K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R64	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R65	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R66	0764–0016	1	RESISTOR 1K ±5% 2W MO TC=0±200	02499	GS–3
A16R67	0757–0289	1	RESISTOR 13.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R68	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R69	0764–0043	1	RESISTOR 2.7K ±5% 2W MO TC=0±200	02499	GS–3
A16R70	0698–3446	1	RESISTOR 383 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R71	0812–0020	1	RESISTOR .39 ±5% 3W PWI TC=0±90	05524	CW–2B–39
A16R72	0757–0730	1	RESISTOR 750 ±1% .25W TF TC=0±100	05524	CMF–60–1, T–1
A16R73	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R74	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R75	0698–3153	1	RESISTOR 3.83K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R76	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R78	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R79	0698–0083	1	RESISTOR 1.96K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R80	0757–0394	1	RESISTOR 51.1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R81	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R82	0811–3826	1	RESISTOR .2 ±3% 3W MFS TC=0±300	05524	LVR–3 0.2 OHM ±3%
A16R83	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R84	0811–3825	1	RESISTOR .15 ±3% 3W MFS TC=0±25	05524	LVR–3 0.15 OHM ±3%
A16R85	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R86	0757–0730	1	RESISTOR 750 ±1% .25W TF TC=0±100	05524	CMF–60–1, T–1
A16R87	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R88	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R89	0698–3150	1	RESISTOR 2.37K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R90	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R91	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R92	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R93	0698–3151	1	RESISTOR 2.87K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A16 Post Regulator Assembly, Part Number 08360–60016 (6 of 8)

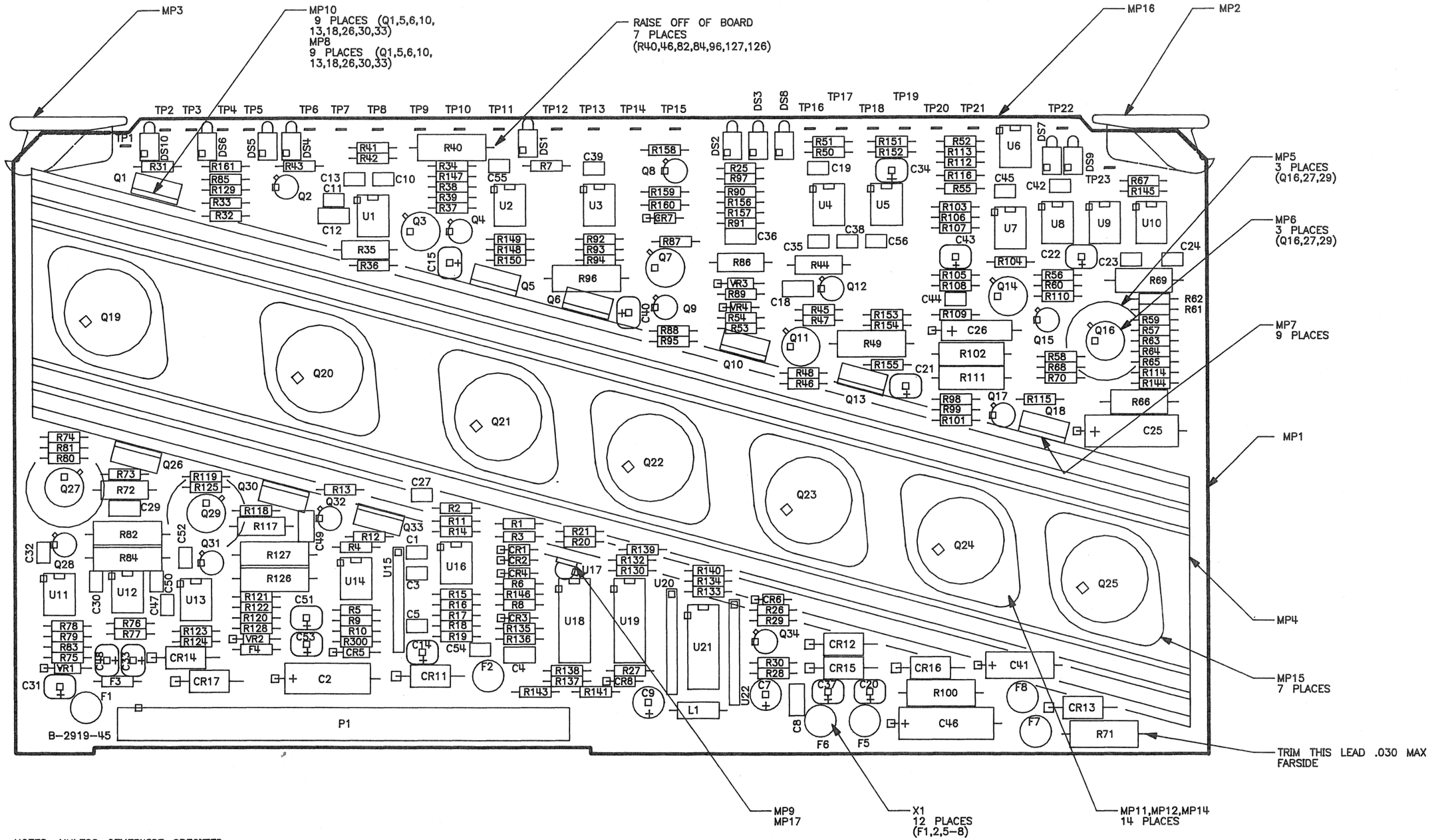
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A16R94	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R95	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R96	0811–3825	1	RESISTOR .15 ±3% 3W MFS TC=0±25	05524	LVR–3 0.15 OHM ±3%
A16R97	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R98	0698–3446	1	RESISTOR 383 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R99	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R100	0811–4507	1	RESISTOR .56 ±5% 3W PWI TC=0±90	01854	T2B–79
A16R101	0698–3136	1	RESISTOR 17.8K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R102	0764–0042	1	RESISTOR 2.2K ±5% 2W MO TC=0±200	02499	GS–3
A16R103	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R104	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R105	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R106	0698–6348	1	RESISTOR 3K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R107	0698–3454	1	RESISTOR 215K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R108	0757–0289	1	RESISTOR 13.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R109	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R110	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R111	0764–0016	1	RESISTOR 1K ±5% 2W MO TC=0±200	02499	GS–3
A16R112	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R113	0757–0424	1	RESISTOR 1.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R114	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R115	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R116	0757–0279	1	RESISTOR 3.16K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R117	0757–0730	1	RESISTOR 750 ±1% .25W TF TC=0±100	05524	CMF–60–1, T–1
A16R118	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R119	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R120	0698–3150	1	RESISTOR 2.37K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R121	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R122	0698–6630	1	RESISTOR 20K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R123	0698–3151	1	RESISTOR 2.87K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R124	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R125	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R126	0811–3826	1	RESISTOR .2 ±3% 3W MFS TC=0±300	05524	LVR–3 0.2 OHM ±3%
A16R127	0811–3825	1	RESISTOR .15 ±3% 3W MFS TC=0±25	05524	LVR–3 0.15 OHM ±3%
A16R128	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R129	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R130	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R132	0757–0200	1	RESISTOR 5.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R133	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R134	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R135	0698–6348	1	RESISTOR 3K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R136	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R137	0757–0417	1	RESISTOR 562 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R138	0698–6363	1	RESISTOR 40K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R139	0698–3152	1	RESISTOR 3.48K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A16 Post Regulator Assembly, Part Number 08360–60016 (7 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A16R140	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R141	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R143	0698–6619	1	RESISTOR 15K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R144	0757–0416	1	RESISTOR 511 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R145	0757–0289	1	RESISTOR 13.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R146	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R147	0698–6631	1	RESISTOR 2.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R148	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R149	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R150	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R151	0698–6631	1	RESISTOR 2.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R152	0757–0289	1	RESISTOR 13.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R153	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R154	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R155	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R156	0757–0467	1	RESISTOR 121K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R157	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A16R158	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R159	0757–0458	1	RESISTOR 51.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R160	0698–3161	1	RESISTOR 38.3K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R161	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A16R300	0698–8827	1	RESISTOR 1M ±1% .125W TF TC=0±100	05524	CMF–55–1
A16TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP11	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP12	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP13	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP14	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP15	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP16	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP17	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP18	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP19	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP20	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP21	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP22	1460–2201	1	SPRING RADIAL TEST POINT		
A16TP23	1460–2201	1	SPRING RADIAL TEST POINT		

Replaceable Parts List for A16 Post Regulator Assembly, Part Number 08360–60016 (8 of 8)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A16U1	1826–1533	1	IC OP AMP H–SLEW–RATE DUAL 8 PIN DIP–P	02037	MC34072P
A16U2	1826–0468	1	IC V RGLTR–OV–V–SEN 2.3/37.8V 8–DIP–P	02037	MC3423P1
A16U3	1826–0468	1	IC V RGLTR–OV–V–SEN 2.3/37.8V 8–DIP–P	02037	MC3423P1
A16U4	1826–1533	1	IC OP AMP H–SLEW–RATE DUAL 8 PIN DIP–P	02037	MC34072P
A16U5	1826–0468	1	IC V RGLTR–OV–V–SEN 2.3/37.8V 8–DIP–P	02037	MC3423P1
A16U6	1826–0468	1	IC V RGLTR–OV–V–SEN 2.3/37.8V 8–DIP–P	02037	MC3423P1
A16U7	1826–1533	1	IC OP AMP H–SLEW–RATE DUAL 8 PIN DIP–P	02037	MC34072P
A16U8	1826–1369	1	IC V RGLTR–V–REF–FXD 9.95/10.05V 8–DIP–P	10858	LT1021DCN8–10
A16U9	1826–1369	1	IC V RGLTR–V–REF–FXD 9.95/10.05V 8–DIP–P	10858	LT1021DCN8–10
A16U10	1826–1533	1	IC OP AMP H–SLEW–RATE DUAL 8 PIN DIP–P	02037	MC34072P
A16U11	1826–0468	1	IC V RGLTR–OV–V–SEN 2.3/37.8V 8–DIP–P	02037	MC3423P1
A16U12	1826–1533	1	IC OP AMP H–SLEW–RATE DUAL 8 PIN DIP–P	02037	MC34072P
A16U13	1826–0468	1	IC V RGLTR–OV–V–SEN 2.3/37.8V 8–DIP–P	02037	MC3423P1
A16U14	1826–1533	1	IC OP AMP H–SLEW–RATE DUAL 8 PIN DIP–P	02037	MC34072P
A16U15	1810–0484	1	NETWORK–RES 10–SIP 2.2K OHM X 5	02483	750–103–R2.2K
A16U16	1826–1533	1	IC OP AMP H–SLEW–RATE DUAL 8 PIN DIP–P	02037	MC34072P
A16U17	1826–1362	1	IC TEMP XDCR 3 PIN TO–92	03285	AD592AN
A16U18	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A16U19	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A16U20	1810–0707	1	NETWORK–RES 10–SIP 470.0 OHM X 5	05524	MSP10A03–471G
A16U21	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A16U22	1810–0483	1	NETWORK–RES 10–SIP 4.7K OHM X 5	02483	750–103–R4.7K
A16VR1	1902–0947	1	DIODE–ZNR 3.6V 5% DO–35 PD=.4W TC=–.036	02037	
A16VR2	1902–0947	1	DIODE–ZNR 3.6V 5% DO–35 PD=.4W TC=–.036	02037	
A16VR3	1902–0947	1	DIODE–ZNR 3.6V 5% DO–35 PD=.4W TC=–.036	02037	
A16VR4	1902–0967	1	DIODE–ZNR 24V 5% DO–35 PD=.4W TC=+.094%	02037	
A16X1	1251–2313	12	CONNECTOR–SGL CONT SKT .04–IN–BSC–SZ RND	01380	3–332070–5



NOTES: UNLESS OTHERWISE SPECIFIED

1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
   SOLDERING PER A-5951-1585-1 (741.070F)
   REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

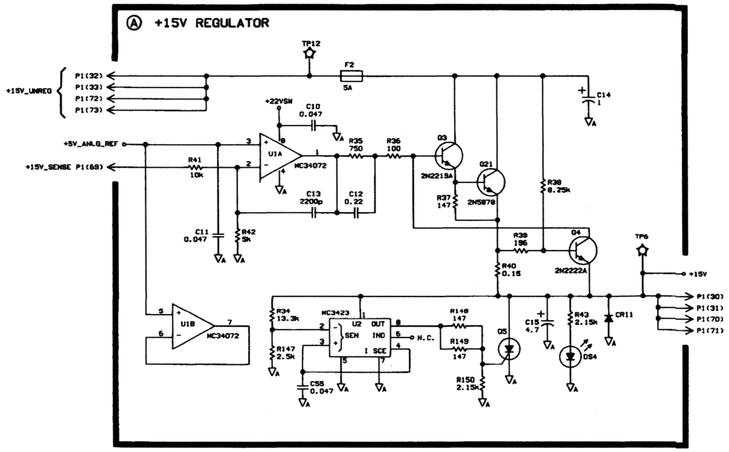
A16 Post Regulator

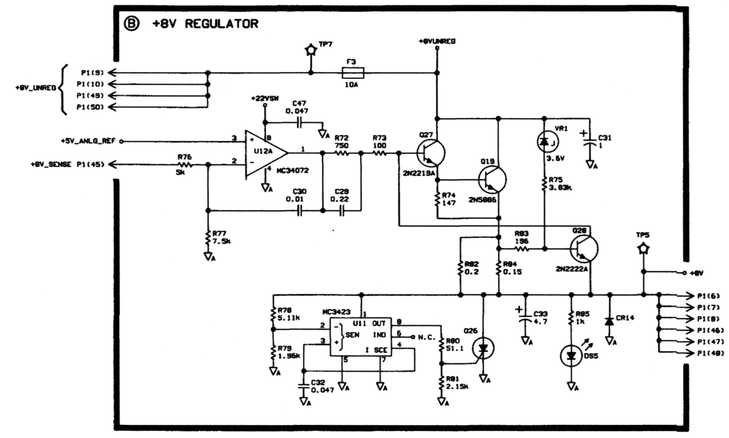
08360-60016

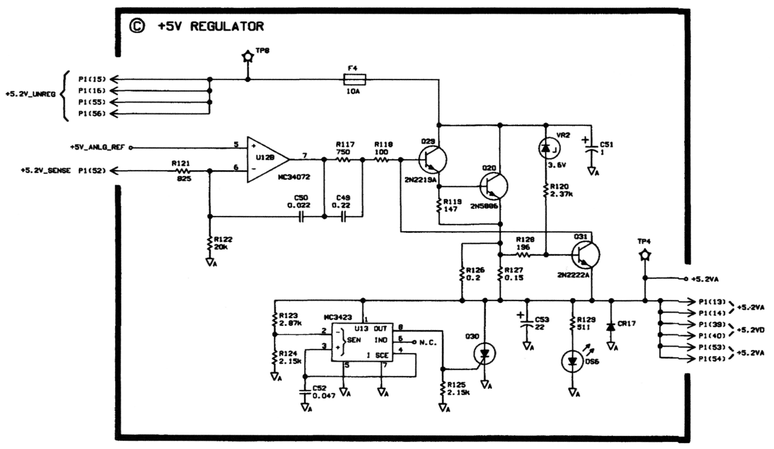
NOTES: UNLESS OTHERWISE SPECIFIED.

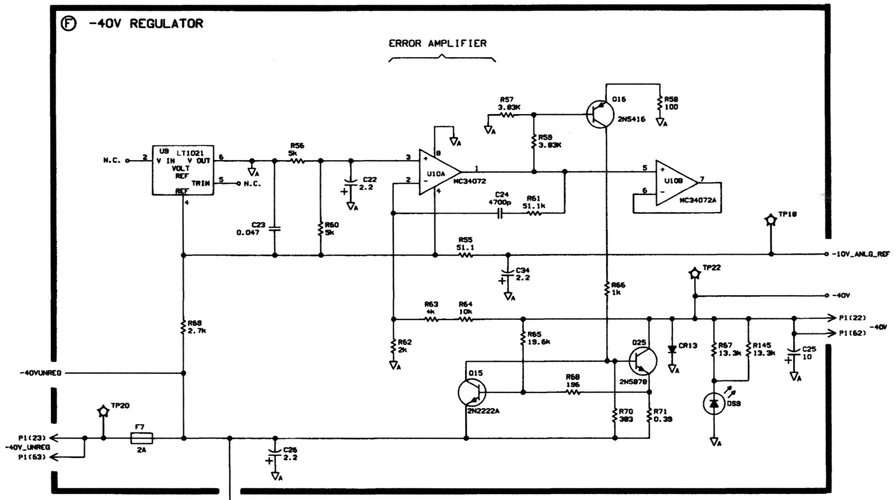
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

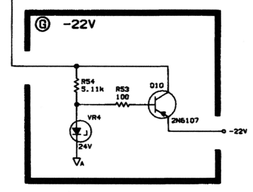
REFERENCE DESIGNATORS	
LAST USED	NOT USED
C56,CR17,DS10,F8, L1,U34,R300,TP23, U22,VR4	C6,C16-17,C28, CR9,10,R22-24, R131,R142 R152-289

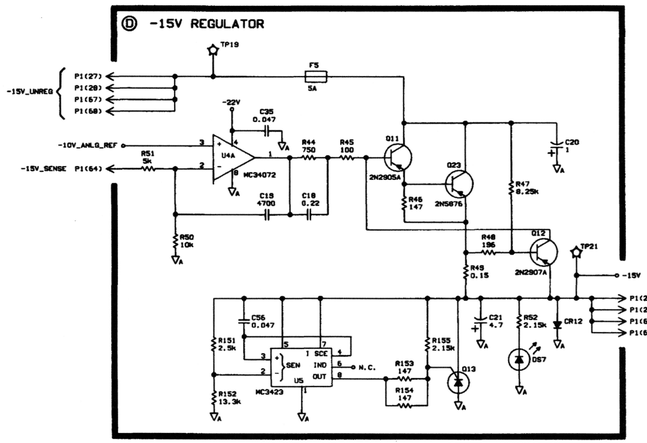


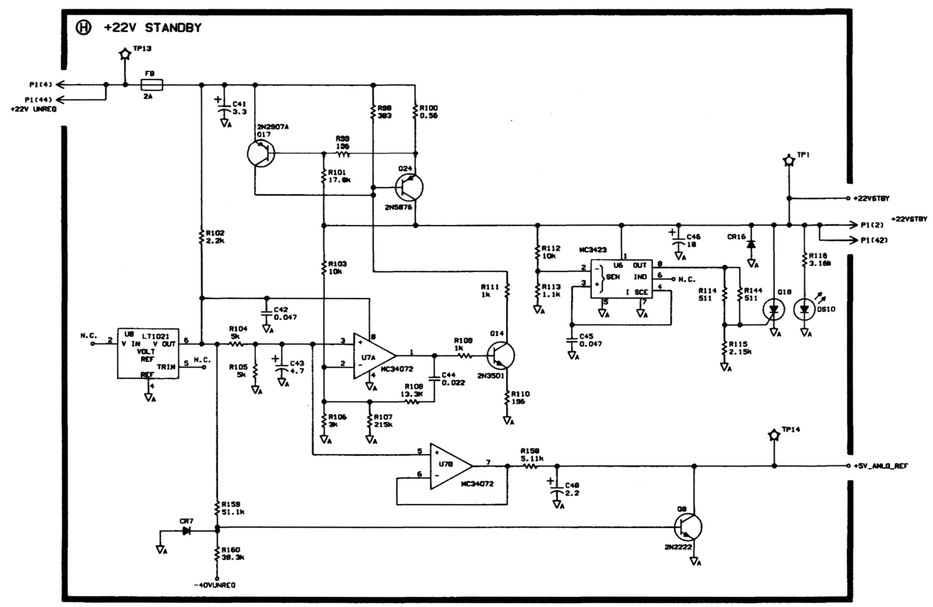










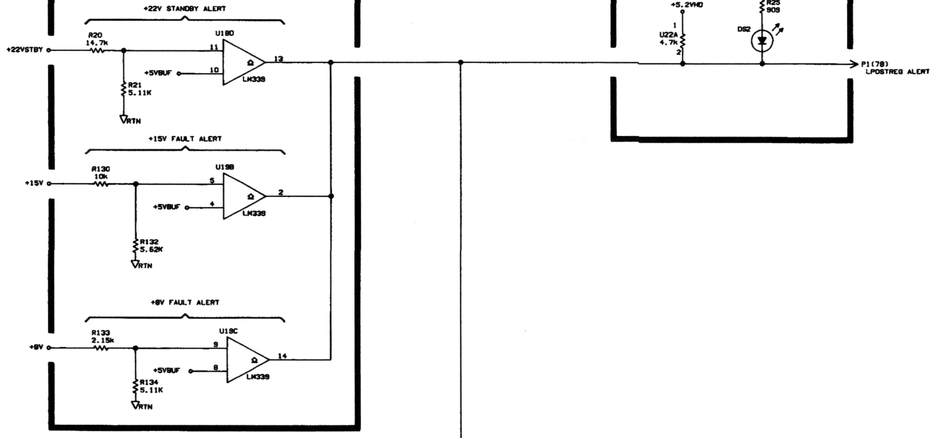


A16 Post Regulator

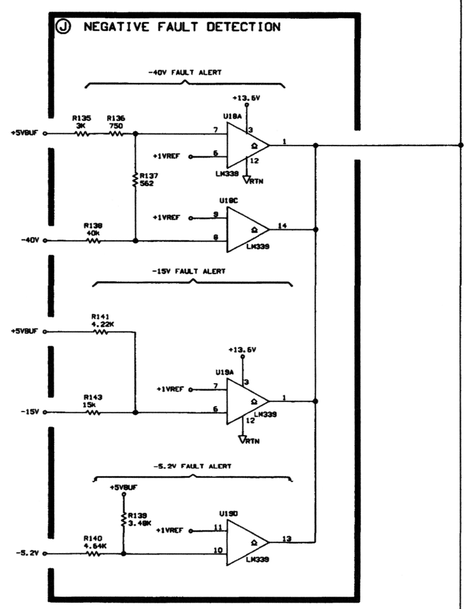
08360-60016

(SHEET 1 of 2)

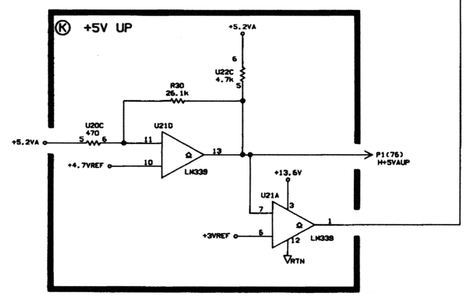
I POSITIVE FAULT DETECTION



J NEGATIVE FAULT DETECTION

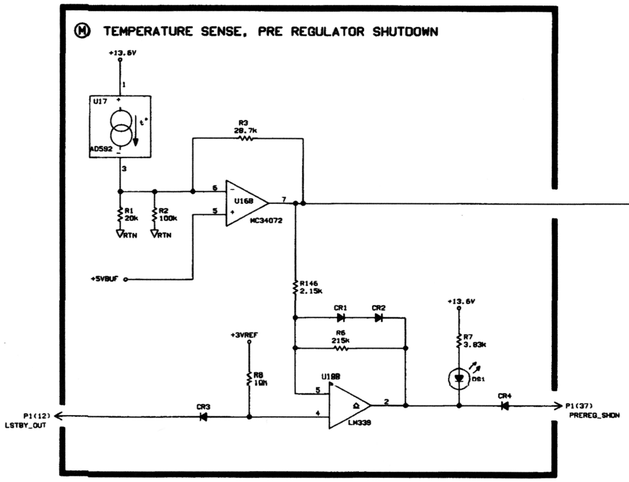


K +5V UP

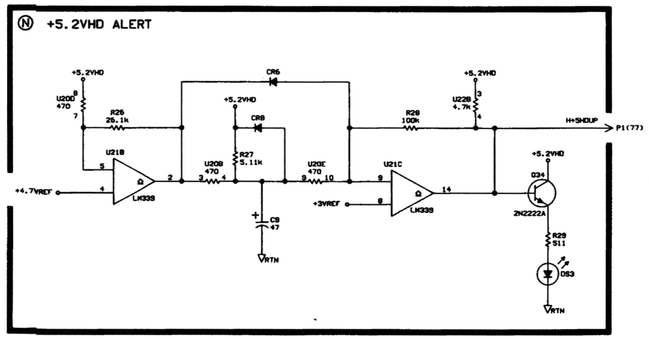


L POST REGULATOR ALERT

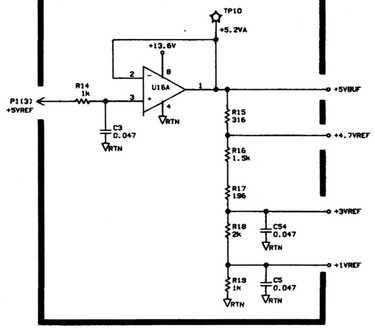
M TEMPERATURE SENSE, PRE REGULATOR SHUTDOWN



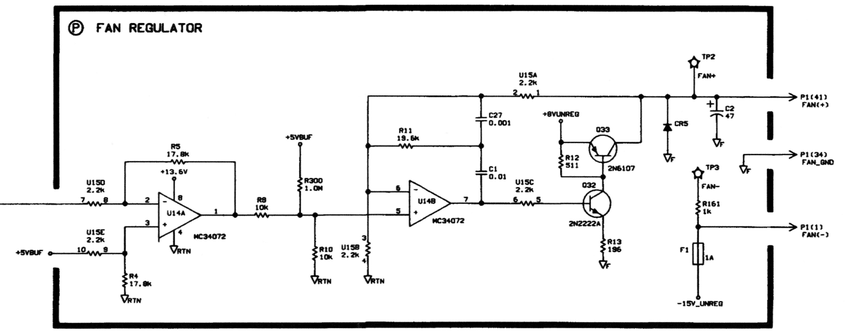
N +5.2VHD ALERT



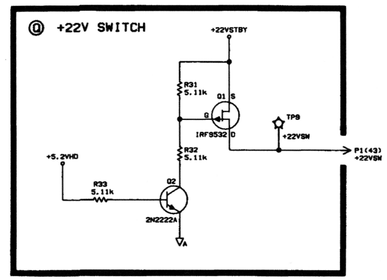
O VOLTAGE REFERENCE



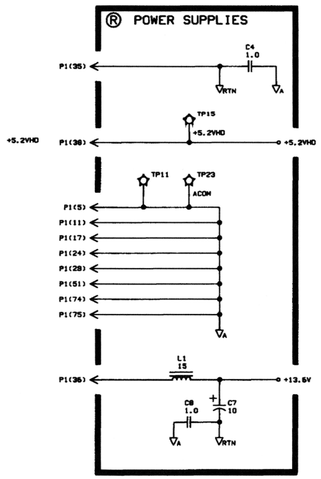
P FAN REGULATOR



Q +22V SWITCH



R POWER SUPPLIES



A16 Post Regulator
08360-60016
(SHEET 2 of 2)

Schematic Package for 08360-60017 A17 Rectifier/Filter

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Information in this document is subject to change without notice. The configuration of some assemblies may differ from that indicated in this document.

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Replaceable Parts List for A17 Rectivier/Filter Assembly, Part Number 08360–60017 (1 of 3)

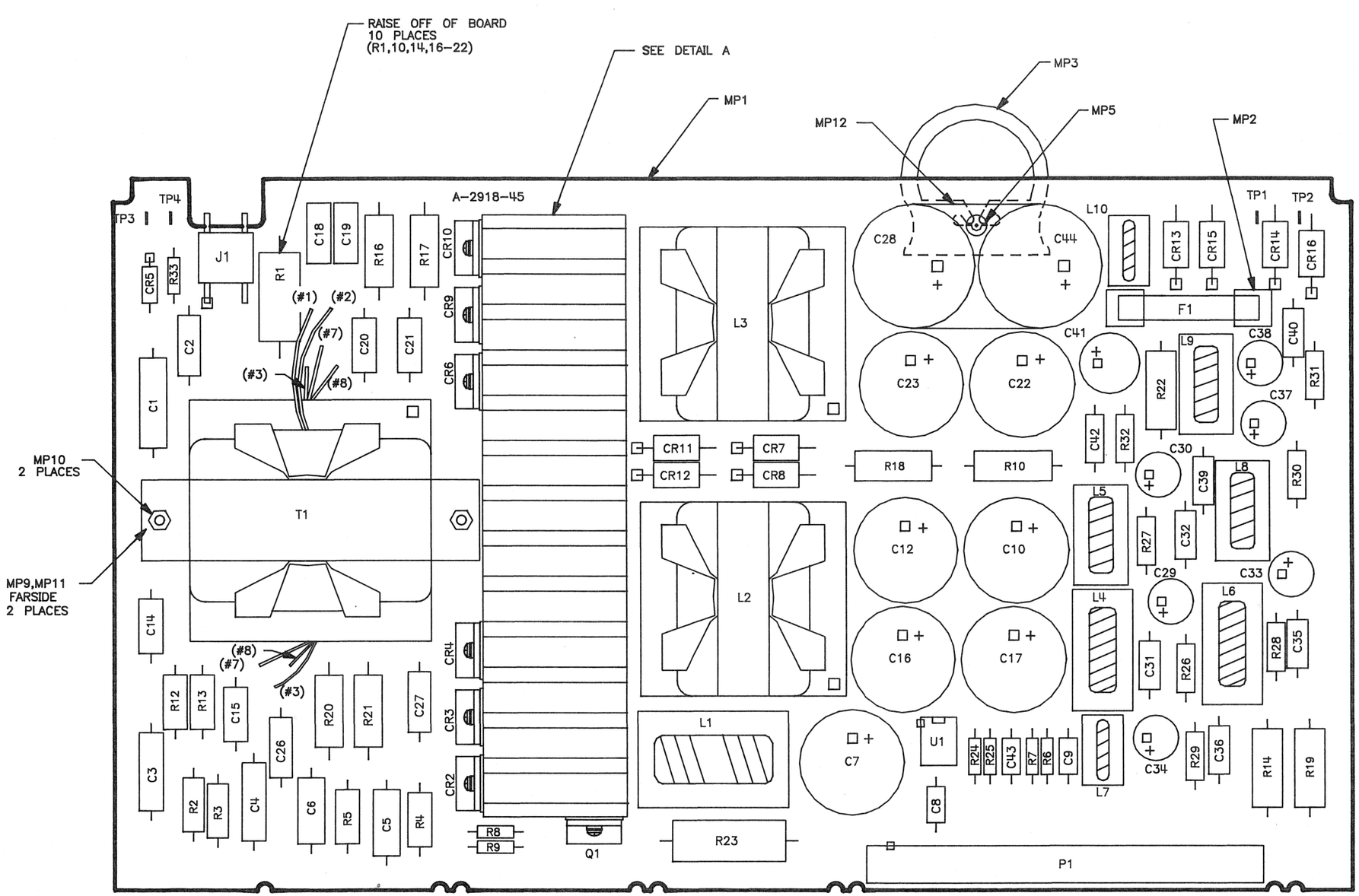
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A17	08360–60017	1	BD AY–RECT/FLTR	28480	08360–60017
A17C1	0170–0021	1	CAP–FXD 4700pF ±10% 400 V POLYE–FL	05176	HEW–781/4700PF/1000V
A17C2	0160–4914	1	CAP–FXD 470pF ±10% 600 V POLYE–FL	02367	
A17C3	0160–0160	1	CAP–FXD 8200pF ±10% 200 V POLYE–FL	05176	HEW238T
A17C4	0160–0160	1	CAP–FXD 8200pF ±10% 200 V POLYE–FL	05176	HEW238T
A17C5	0160–0301	1	CAP–FXD 0.012uF ±10% 200 V POLYE–FL	05176	HEW238T
A17C6	0160–0301	1	CAP–FXD 0.012uF ±10% 200 V POLYE–FL	05176	HEW238T
A17C7	0180–4091	1	CAP–FXD 4200uF ±20% 12 V AL–ELCTLT	04200	677D428M012HL2A
A17C8	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A17C9	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A17C10	0180–4090	1	CAP–FXD 2200uF –20% 25 V AL–ELCTLT	04200	677D228MO25HL2A
A17C12	0180–4090	1	CAP–FXD 2200uF –20% 25 V AL–ELCTLT	04200	677D228MO25HL2A
A17C14	0160–0300	1	CAP–FXD 2700pF ±10% 200 V POLYE–FL	05176	HEW238T
A17C15	0160–0300	1	CAP–FXD 2700pF ±10% 200 V POLYE–FL	05176	HEW238T
A17C16	0180–4090	1	CAP–FXD 2200uF –20% 25 V AL–ELCTLT	04200	677D228MO25HL2A
A17C17	0180–4090	1	CAP–FXD 2200uF –20% 25 V AL–ELCTLT	04200	677D228MO25HL2A
A17C18	0160–4183	1	CAP–FXD 1000pF ±20% 250 V PPR–MET	11892	PME271Y410M
A17C19	0160–4183	1	CAP–FXD 1000pF ±20% 250 V PPR–MET	11892	PME271Y410M
A17C20	0160–0300	1	CAP–FXD 2700pF ±10% 200 V POLYE–FL	05176	HEW238T
A17C21	0160–0300	1	CAP–FXD 2700pF ±10% 200 V POLYE–FL	05176	HEW238T
A17C22	0180–4092	1	CAP–FXD 1000uF ±20% 50 V AL–ELCTLT	04200	677D108M050HL2A
A17C23	0180–4092	1	CAP–FXD 1000uF ±20% 50 V AL–ELCTLT	04200	677D108M050HL2A
A17C26	0160–4914	1	CAP–FXD 470pF ±10% 600 V POLYE–FL	02367	
A17C27	0160–4914	1	CAP–FXD 470pF ±10% 600 V POLYE–FL	02367	
A17C28	0180–4084	1	CAP–FXD 1200uF +30% –10% 100 V AL–ELCTLT	04200	80D122P100JD2A
A17C29	0180–3469	1	CAP–FXD 100uF ±20% 35 V AL–ELCTLT	00493	KME35VB101M8X11LL
A17C30	0180–3469	1	CAP–FXD 100uF ±20% 35 V AL–ELCTLT	00493	KME35VB101M8X11LL
A17C31	0160–5098	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	02010	SA405C224KAAH
A17C32	0160–5098	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	02010	SA405C224KAAH
A17C33	0180–3469	1	CAP–FXD 100uF ±20% 35 V AL–ELCTLT	00493	KME35VB101M8X11LL
A17C34	0180–3469	1	CAP–FXD 100uF ±20% 35 V AL–ELCTLT	00493	KME35VB101M8X11LL
A17C35	0160–5098	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	02010	SA405C224KAAH
A17C36	0160–5098	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	02010	SA405C224KAAH
A17C37	0180–3468	1	CAP–FXD 47uF ±20% 50 V AL–ELCTLT	00493	KME63VB47RM8X11LL
A17C38	0180–3468	1	CAP–FXD 47uF ±20% 50 V AL–ELCTLT	00493	KME63VB47RM8X11LL
A17C39	0160–5098	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	02010	SA405C224KAAH
A17C40	0160–5098	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	02010	SA405C224KAAH
A17C41	0180–3596	1	CAP–FXD 100uF ±20% 100 V AL–ELCTLT	00779	UPR2A101MRH
A17C42	0160–5755	1	CAP–FXD 0.1uF ±10% 100 V CER X7R	02010	SA401C104KAAH
A17C43	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A17C44	0180–4084	1	CAP–FXD 1200uF +30% –10% 100 V AL–ELCTLT	04200	80D122P100JD2A
A17CR2	1906–0265	1	DIODE–CT–RECT 45V 12A	03038	12CTQ045
A17CR3	1906–0261	1	DIODE–CT–RECT 150V 16A	02037	
A17CR4	1906–0308	1	DIODE–CT–RECT 150V 16A	04504	FEN16CT7
A17CR5	1901–1214	1	DIODE–PWR RECT 600V 1A 50NS	02037	MUR160
A17CR6	1906–0261	1	DIODE–CT–RECT 150V 16A	02037	

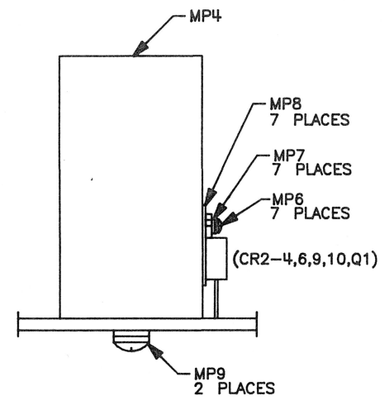
Replaceable Parts List for A17 Rectivier/Filter Assembly, Part Number 08360–60017 (2 of 3)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A17CR7	1901–1216	1	DIODE–PWR RECT 150V 4A 35NS	02037	MUR415
A17CR8	1901–1216	1	DIODE–PWR RECT 150V 4A 35NS	02037	MUR415
A17CR9	1906–0261	1	DIODE–CT–RECT 150V 16A	02037	
A17CR10	1906–0308	1	DIODE–CT–RECT 150V 16A	04504	FEN16CT7
A17CR11	1901–1199	1	DIODE–PWR RECT 600V 4A 50NS	02037	MUR460
A17CR12	1901–1199	1	DIODE–PWR RECT 600V 4A 50NS	02037	MUR460
A17CR13	1901–0870	1	DIODE–PWR RECT 200V 3A	02037	1N5402RL
A17CR14	1901–0870	1	DIODE–PWR RECT 200V 3A	02037	1N5402RL
A17CR15	1901–0870	1	DIODE–PWR RECT 200V 3A	02037	1N5402RL
A17CR16	1901–0870	1	DIODE–PWR RECT 200V 3A	02037	1N5402RL
A17F1	2110–0303	1	FUSE (INCH) 2A 250V TD FE UL	02805	MDX–2A
A17J1	1252–2790	1	CONN–POST TYPE .156–PIN–SPCG 2–CONT	04726	YLK–1003–L04A60–JPR
A17L1	9140–0677	1	INDUCTOR–FIXED 152 UH AT 10 KHZ; DCR 27M	01886	
A17L2	08360–80013	1	INDUCTOR		
A17L3	08360–80014	1	INDUCTOR		
A17L4	9140–1352	1	INDUCTOR 10UH ±10% .5W–INX1LG–IN	03273	51–369
A17L5	9140–1353	1	INDUCTOR 40UH +20% –12%	01869	92111K
A17L6	9140–1352	1	INDUCTOR 10UH ±10% .5W–INX1LG–IN	03273	51–369
A17L7	9140–1351	1	INDUCTOR 25UH +20% –12%	01869	92100K
A17L8	9140–1353	1	INDUCTOR 40UH +20% –12%	01869	92111K
A17L9	9140–1353	1	INDUCTOR 40UH +20% –12%	01869	92111K
A17L10	9140–1351	1	INDUCTOR 25UH +20% –12%	01869	92100K
A17MP2	2110–0643	1	FUHLR–CLP–TYP 15A 250V	09694	FH–8000
A17MP3	5040–6844	1	BOARD EXTRACTOR		
A17MP4	08360–20039	1	HEAT SINK		
A17MP5	5000–9044	1	PIN–EXTRACTOR		
A17MP6	0515–0367	7	SCREW–MACHINE ASSEMBLY M2.5 X 0.45	05610	
A17MP7	3050–1309	7	WASHER–SHLDR NM .1–IN–ID .234–IN–OD NYL	07041	5662–N–137–040–100
A17MP8	0340–1170	7	INSULATOR–XSTR THRM–CNDCT	05447	K10AC–58
A17MP9	0515–0380	4	SCREW–MACHINE ASSEMBLY M4 X 0.7 10MM–LG	05610	
A17MP10	0535–0006	2	NUT–HEX DBL–CHAM M4 X 0.7 3.8MM–THK	06691	
A17MP11	3050–0893	2	WASHER–FL MTLC 4.0 4.4–MM–ID 8.85–MM–OD	06691	
A17MP12	1400–0482	1	CABLE TIE .062–3–DIA .14–WD NYL	04225	TY–26M–8
A17P1	1251–8912	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534204–5
A17Q1	1884–0293	1	THYRISTOR–SCR	02037	MCR69–2
A17R1	0693–1511	1	RESISTOR 150 ±10% 2W CC TC=0+529	01607	HB1511
A17R2	0699–0002	1	RESISTOR 6.8 ±10% .5W CC TC=0+412	01607	EB68G1
A17R3	0699–0002	1	RESISTOR 6.8 ±10% .5W CC TC=0+412	01607	EB68G1
A17R4	0686–0515	1	RESISTOR 5.1 ±5% .5W CC TC=0+412	01607	EB51G5
A17R5	0686–0515	1	RESISTOR 5.1 ±5% .5W CC TC=0+412	01607	EB51G5
A17R6	0698–3438	1	RESISTOR 147 ±1% .125W TF TC=0±100	05524	CMF–55–1
A17R7	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A17R8	0698–3433	1	RESISTOR 28.7 ±1% .125W TF TC=0±100	05524	CMF–55–1
A17R9	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A17R10	0698–3635	1	RESISTOR 680 ±5% 2W MO TC=0±200	02499	GS–3

Replaceable Parts List for A17 Rectivier/Filter Assembly, Part Number 08360–60017 (3 of 3)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A17R12	0686–3305	1	RESISTOR 33 ±5% .5W CC TC=0+412	01607	EB3305
A17R13	0686–3305	1	RESISTOR 33 ±5% .5W CC TC=0+412	01607	EB3305
A17R14	0764–0016	1	RESISTOR 1K ±5% 2W MO TC=0±200	02499	GS–3
A17R16	0689–3305	1	RESISTOR 33 ±5% 1W CC TC=0+412	01607	GB3305
A17R17	0689–3305	1	RESISTOR 33 ±5% 1W CC TC=0+412	01607	GB3305
A17R18	0764–0003	1	RESISTOR 3.3K ±5% 2W MO TC=0±200	02499	GS–3
A17R19	0764–0003	1	RESISTOR 3.3K ±5% 2W MO TC=0±200	02499	GS–3
A17R20	0689–8205	1	RESISTOR 82 ±5% 1W CC TC=0+412	01607	GB8205
A17R21	0689–8205	1	RESISTOR 82 ±5% 1W CC TC=0+412	01607	GB8205
A17R22	0764–0003	1	RESISTOR 3.3K ±5% 2W MO TC=0±200	02499	GS–3
A17R23	0811–3618	1	RESISTOR .01 ±5% 3W PWI TC=0±40	02499	4LPW–3–.01–5%
A17R24	0757–0399	1	RESISTOR 82.5 ±1% .125W TF TC=0±100	05524	CMF–55–1
A17R25	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A17R26	0811–3072	1	RESISTOR .5 ±5% .5W PWI TC=0±150	02499	SP–20
A17R27	0811–3069	1	RESISTOR 1 ±5% .5W PWI TC=0±150	02499	SP–20
A17R28	0811–3072	1	RESISTOR .5 ±5% .5W PWI TC=0±150	02499	SP–20
A17R29	0811–3069	1	RESISTOR 1 ±5% .5W PWI TC=0±150	02499	SP–20
A17R30	0811–3069	1	RESISTOR 1 ±5% .5W PWI TC=0±150	02499	SP–20
A17R31	0811–3069	1	RESISTOR 1 ±5% .5W PWI TC=0±150	02499	SP–20
A17R32	0811–3069	1	RESISTOR 1 ±5% .5W PWI TC=0±150	02499	SP–20
A17R33	0757–0458	1	RESISTOR 51.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A17T1	9100–4870	1	TRANSFORMER–SWITCHING; PRI IND: 3.9 MH	12918	5180–8039
A17TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A17TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A17TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A17TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A17U1	1826–0468	1	IC V RGLTR–OV–V–SEN 2.3/37.8V 8–DIP–P	02037	MC3423P1





DETAIL A
SCALE: NONE

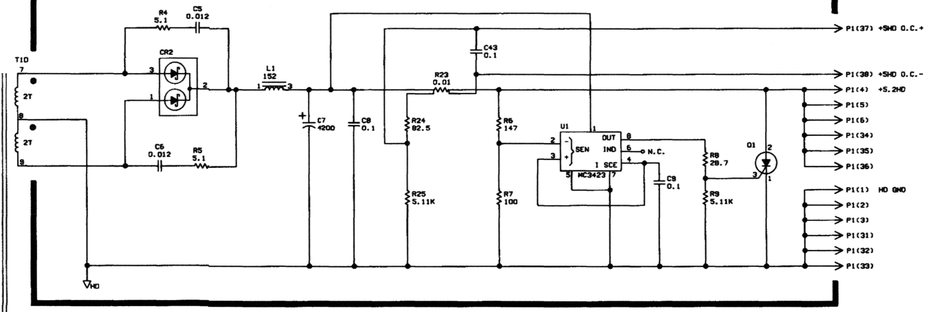
NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A–5951–1582–1 (741.070C)
SOLDERING PER A–5951–1585–1 (741.070F)
REWORK PER A–5951–1586–1 (741.070G)

HEWLETT PACKARD

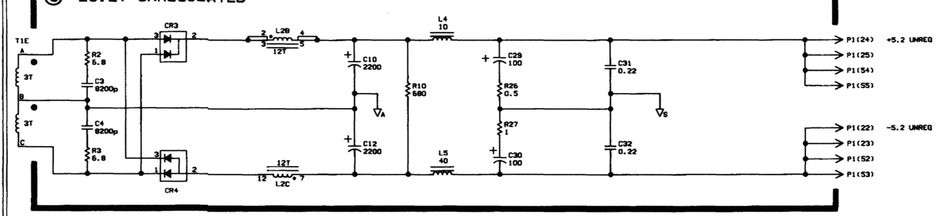
A17 Rectifier/Filter

08360–60017

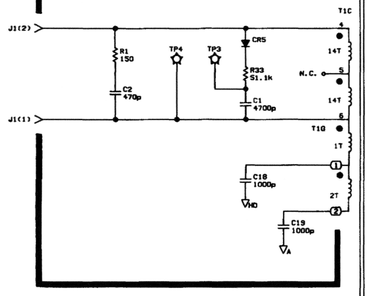
Ⓑ +5.2VHD REGULATED



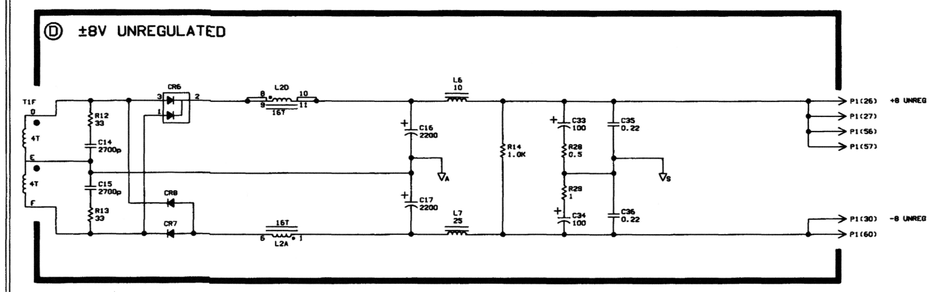
Ⓒ ±5.2V UNREGULATED



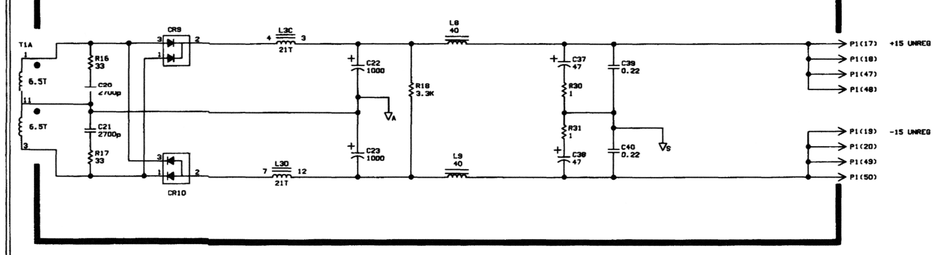
Ⓐ 60KHz POWER TRANSFORMER



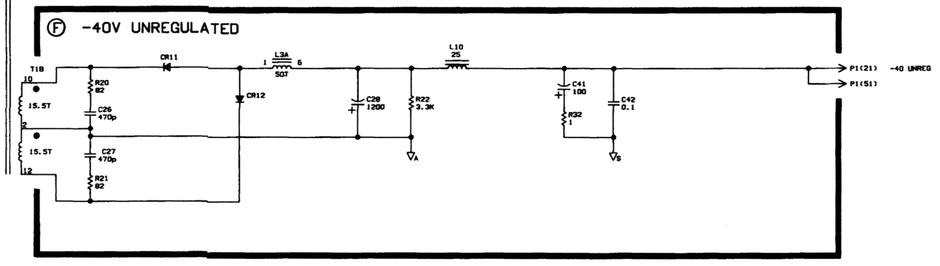
Ⓓ ±8V UNREGULATED

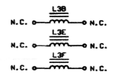


Ⓔ ±15 UNREGULATED



Ⓕ -40V UNREGULATED

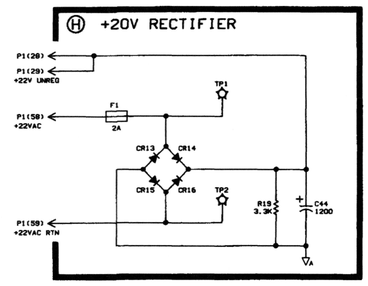




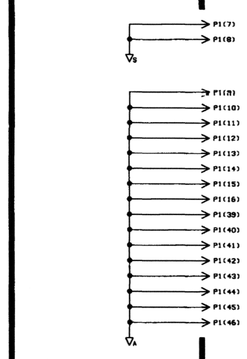
NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESITOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
C44 CR16 F1 J1 L10 P1 Q1 R33 T1 TP4 U1	C11,13,24,25 CR1 R11,15

Ⓗ +20V RECTIFIER



Ⓙ GROUNDS



A17 Rectifier/Filter
08360-60017
(SHEET 1 of 1)

Schematic Package for 08360-60018 A18 Switching Regulator

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Information in this document is subject to change without notice. The configuration of some assemblies may differ from that indicated in this document.

HEWLETT PACKARD

Replaceable Parts List for A18 Switching Regulator Assembly, Part Number 08360–60018 (1 of 4)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A18	08360–60018	1	BD AY–SW REG	28480	08360–60198
A18C1	0160–4413	1	CAP–FXD 0.6uF ±10% 250 V PPR–MET	11892	PME271M660K
A18C2	0160–4355	1	CAP–FXD .01uF ±20% 250V PPR–MET	11892	PME271Y510M
A18C3	0160–4355	1	CAP–FXD .01uF ±20% 250V PPR–MET	11892	PME271Y510M
A18C4	0160–4808	1	CAP–FXD 470pF ±5% 100 V CER C0G	02010	SA101A471JAAH
A18C5	0160–4259	1	CAP–FXD 0.22uF ±10% 250 V PPR–MET	11892	PME271M622K
A18C6	0180–3401	1	CAP–FXD 470uF ±20% 50 V AL–ELCTLT	00493	KMC 50 VB 471 M 16X25
A18C7	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A18C8	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A18C9	0180–4081	1	CAP–FXD 470uF +30% –10% 250 V AL–ELCTLT	04200	80D2359
A18C10	0180–4081	1	CAP–FXD 470uF +30% –10% 250 V AL–ELCTLT	04200	80D2359
A18C11	0180–4081	1	CAP–FXD 470uF +30% –10% 250 V AL–ELCTLT	04200	80D2359
A18C12	0180–4081	1	CAP–FXD 470uF +30% –10% 250 V AL–ELCTLT	04200	80D2359
A18C13	0160–5098	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	02010	SA405C224KAAH
A18C14	0160–6161	1	CAP–FXD 1uF ±10% 250 V POLYP–MET	11892	PME404HB6220K
A18C15	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A18C16	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A18C17	0180–0291	1	CAP–FXD 1uF ±10% 35 V TA	04200	150D105X9035A2–DYS
A18C18	0180–0229	1	CAP–FXD 33uF ±10% 10 V TA	04200	150D336X9010B2–DYS
A18C19	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A18C20	0180–0197	1	CAP–FXD 2.2uF ±10% 20 V TA	04200	150D225X9020A2–DYS
A18C21	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A18C22	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A18C23	0180–0197	1	CAP–FXD 2.2uF ±10% 20 V TA	04200	150D225X9020A2–DYS
A18C24	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A18C25	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A18C26	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A18C27	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A18C28	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A18C29	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A18C30	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A18C31	0160–4833	1	CAP–FXD 0.022uF ±10% 100 V CER X7R	02010	SA201C223KAAH
A18C32	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A18CR1	1906–0094	1	DIODE–FW BRDG 400V 1.5A	03171	
A18CR2	1906–0309	1	DIODE–FW BRDG 800V 10A	03627	SDA165F–40
A18CR3	1901–0734	1	DIODE–PWR RECT 1N5818 30V 1A	02037	1N5818
A18CR4	1901–0734	1	DIODE–PWR RECT 1N5818 30V 1A	02037	1N5818
A18CR5	1901–1081	1	DIODE–PWR RECT 100V 3A	02037	1N5401
A18CR6	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR7	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR8	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR9	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR10	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR11	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR12	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR13	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	

Replaceable Parts List for A18 Switching Regulator Assembly, Part Number 08360–60018 (2 of 4)

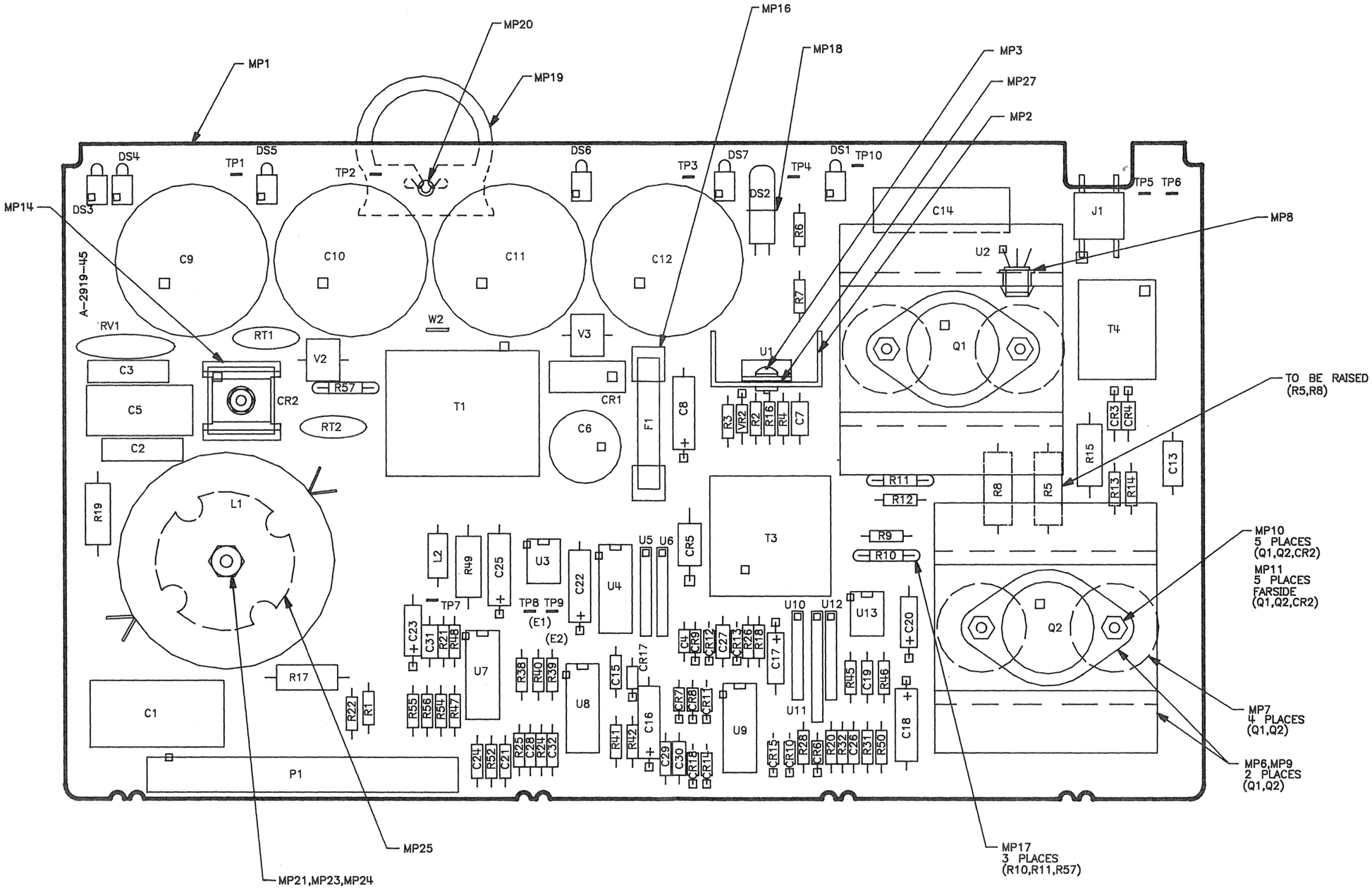
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A18CR14	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR15	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR17	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR18	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18DS1	1990–1079	1	LED–LAMP LUM–INT=1MCD IF=25MA–MAX BVR=5V	01542	HLMP–1503–101
A18DS2	2140–0018	1	LAMP–GLOW A9A–CT 90VDC 700UA T–2–BULB	07338	
A18DS3	1990–1275	1	LED–LAMP LUM–INT=1.5MCD IF=50MA–MAX	01542	HLMP–1002–101
A18DS4	1990–1275	1	LED–LAMP LUM–INT=1.5MCD IF=50MA–MAX	01542	HLMP–1002–101
A18DS5	1990–1275	1	LED–LAMP LUM–INT=1.5MCD IF=50MA–MAX	01542	HLMP–1002–101
A18DS6	1990–1275	1	LED–LAMP LUM–INT=1.5MCD IF=50MA–MAX	01542	HLMP–1002–101
A18DS7	1990–1274	1	LED–LAMP LUM–INT=2MCD IF=20MA–MAX BVR=5V	01542	HLMP–1401–101
A18F1	2110–0201	1	FUSE (INCH) .25A 250V TD FE UL	02805	MDL–1/4
A18J1	1252–2790	1	CONN–POST TYPE .156–PIN–SPCG 2–CONT	04726	YLK–1003–L04A60–JPR
A18L1	9140–0879	1	INDUCTOR 40MH ±20% 1.95D–IN	04200	99ZSPA44267
A18L2	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A18MP2	1205–0595	1	HEAT SINK SGL PLSTC–PWR–CS	02608	6021PB/W PEM NUT
A18MP3	0515–0430	1	SCREW–MACHINE ASSEMBLY M3 X 0.5 6MM–LG	05610	
A18MP6	08360–20046	2			
A18MP7	08360–40005	4			
A18MP8	08360–20047	1			
A18MP9	0340–1175	2	INSULATOR–XSTR THRM–CNDCT	05447	K–4–03
A18MP10	0535–0031	5	NUT–HEX W/LKWR M3 X 0.5 2.4MM–THK	06691	
A18MP11	0570–0647	5	STD–PRS–IN M3 X 0.5 15.000 PH–BRZ	03981	KFH–M3–15–ET
A18MP14	08753–00024	1			
A18MP16	2110–0643	1	FUHLR–CLP–TYP 15A 250V	09694	FH–8000
A18MP17	0340–1158	3	SPACER–COMPONENT FOR DISCRETE COMPONENTS	03724	316–500
A18MP18	8151–0014		WIRE 24AWG 1X24	05623	
A18MP19	5040–6846	1			
A18MP20	5000–9044	1			
A18MP21	0515–0670	1	SCREW–MACHINE ASSEMBLY M4 X 0.7 45MM–LG	05610	
A18MP23	3050–0893	1	WASHER–FL MTLC 4.0 4.4–MM–ID 8.85–MM–OD	06691	
A18MP24	0535–0006	1	NUT–HEX DBL–CHAM M4 X 0.7 3.8MM–THK	06691	
A18MP25	08360–40009	1			
A18MP27	0340–1170	1	INSULATOR–XSTR THRM–CNDCT	05447	K10AC–58
A18P1	1252–2736	1	CONN–POST TYPE .100–PIN–SPCG 38–CONT	01380	535525–1
A18Q1	1855–0536	1	TRANSISTOR MOSFET N–CHAN E–MODE TO–3 SI	02037	IRF440
A18Q2	1855–0536	1	TRANSISTOR MOSFET N–CHAN E–MODE TO–3 SI	02037	IRF440
A18R1	0698–3266	1	RESISTOR 237K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R2	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A18R3	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A18R4	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R5	0764–0007	1	RESISTOR 27K ±5% 2W MO TC=0±200	02499	GS–3
A18R6	0698–3243	1	RESISTOR 178K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R7	0698–3243	1	RESISTOR 178K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R8	0764–0007	1	RESISTOR 27K ±5% 2W MO TC=0±200	02499	GS–3

Replaceable Parts List for A18 Switching Regulator Assembly, Part Number 08360–60018 (3 of 4)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A18R9	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R10	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R11	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R12	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R13	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R14	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R15	0698–3607	1	RESISTOR 18 ±5% 2W MO TC=0±200	02499	GS–3
A18R16	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R17	0698–3601	1	RESISTOR 10 ±5% 2W MO TC=0±200	02499	GS–3
A18R18	0698–6619	1	RESISTOR 15K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A18R19	0698–3601	1	RESISTOR 10 ±5% 2W MO TC=0±200	02499	GS–3
A18R20	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R21	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R22	0698–3266	1	RESISTOR 237K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R24	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R25	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R26	0698–3451	1	RESISTOR 133K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R28	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R31	0757–0428	1	RESISTOR 1.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R32	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R38	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R39	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R40	0698–3266	1	RESISTOR 237K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R41	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R42	0757–0123	1	RESISTOR 34.8K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R45	0757–0123	1	RESISTOR 34.8K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R46	0698–3429	1	RESISTOR 19.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R47	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R48	0698–3441	1	RESISTOR 215 ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R49	0698–3601	1	RESISTOR 10 ±5% 2W MO TC=0±200	02499	GS–3
A18R50	0698–3446	1	RESISTOR 383 ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R52	0698–3266	1	RESISTOR 237K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R54	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R55	0698–6614	1	RESISTOR 7.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A18R56	0698–3445	1	RESISTOR 348 ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R57	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18RT1	0837–0135	1	THERMISTOR DISC 5–OHM TC=–3.3–DEG	12830	SG–62
A18RT2	0837–0135	1	THERMISTOR DISC 5–OHM TC=–3.3–DEG	12830	SG–62
A18RV1	0837–0261	1	VOLTAGE SUPPRESSOR PEAK CURRENT=4500A	03799	V275LA20A
A18T1	9100–4755	1	XFMR–PWR 115/230V	00715	PSD3–24
A18T3	9100–4742	1	TRANSFORMER–PULSE; PRI IND: 1.5 MH	01869	PE–63387
A18T4	9100–4440	1	TRANSFORMER SECONDARY INDUCTANCE: 5.0 MH	01869	63617
A18TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A18TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A18TP3	1460–2201	1	SPRING RADIAL TEST POINT		

Replaceable Parts List for A18 Switching Regulator Assembly, Part Number 08360–60018 (4 of 4)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A18TP4	1460–2201	1	SPRING RADIAL TEST POINT		
A18TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A18TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A18TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A18TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A18TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A18TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A18U1	1826–0393	1	IC V RGLTR–ADJ–POS 1.2/37V 3–TO–220 PKG	03406	LM317T
A18U2	1826–1362	1	IC TEMP XDCR 3 PIN TO–92	03285	AD592AN
A18U3	1826–1431	1	IC V RGLTR–V–REF–FXD 4.9975/5.0025V	10858	LT1021CCN8–5
A18U4	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A18U5	1810–0510	1	NETWORK–RES 8–SIP 20.0K OHM X 4	02483	750–83–R20K
A18U6	1810–1229	1	NETWORK–RES 8–SIP 3.3K OHM X 4	02483	750–83–R 3.3K
A18U7	1826–1243	1	IC V RGLTR–SWG 5/5.2V 16–DIP–C PKG	03793	SG3527AJ
A18U8	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A18U9	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A18U10	1810–0510	1	NETWORK–RES 8–SIP 20.0K OHM X 4	02483	750–83–R20K
A18U11	1810–0483	1	NETWORK–RES 10–SIP 4.7K OHM X 5	02483	750–103–R4.7K
A18U12	1810–0374	1	NETWORK–RES 8–SIP 1.0K OHM X 4	02483	750–83–R1K
A18U13	1826–0180	1	IC TIMER GP 8 PIN DIP–P	02910	NE555N
A18V2	1970–0092	1	TUBE–ELECTRON SURGE V PTCTR	06121	B2–B270Y33
A18V3	1970–0092	1	TUBE–ELECTRON SURGE V PTCTR	06121	B2–B270Y33
A18VR2	1902–0957	1	DIODE–ZNR 9.1V 5% DO–35 PD=.4W TC=+.069	02037	
A18W2	1460–1489	1	WIREFORM BE CU AG	02856	

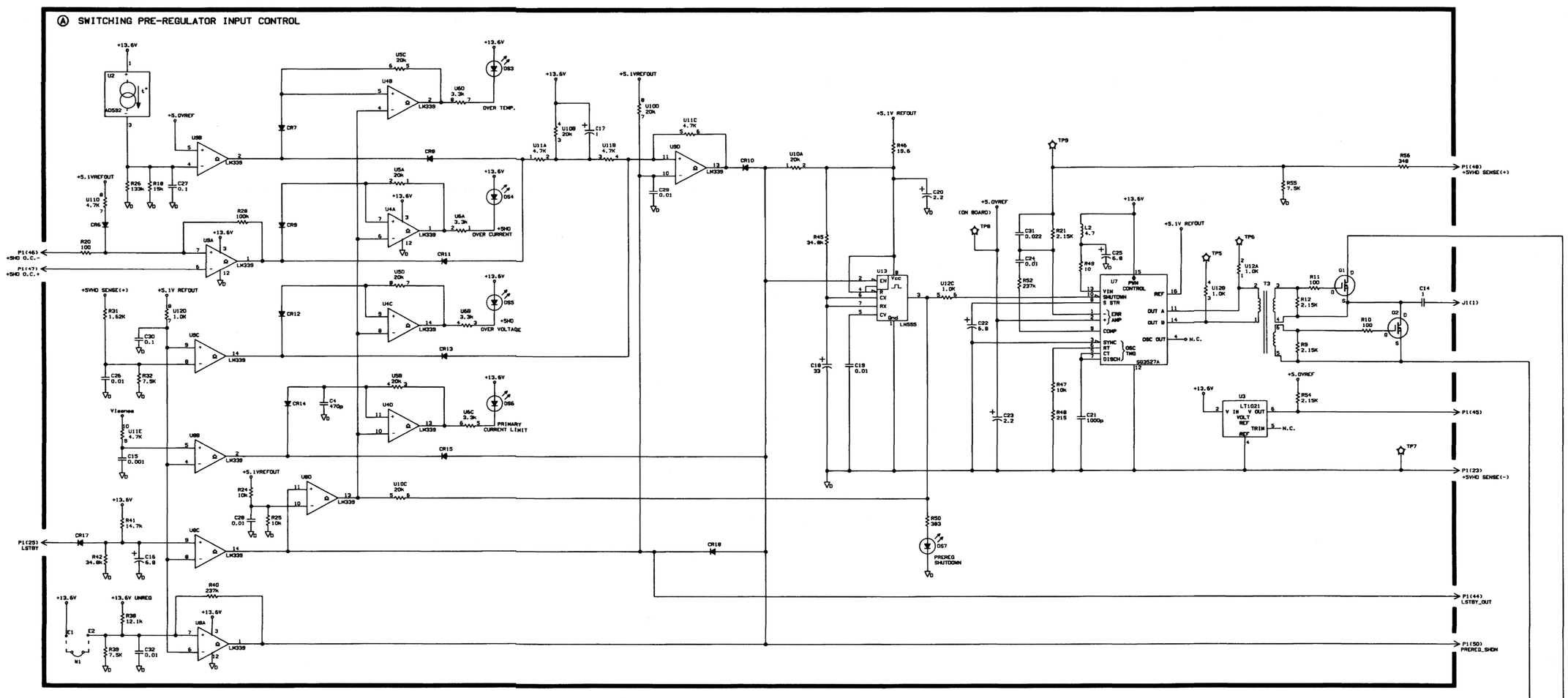


NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

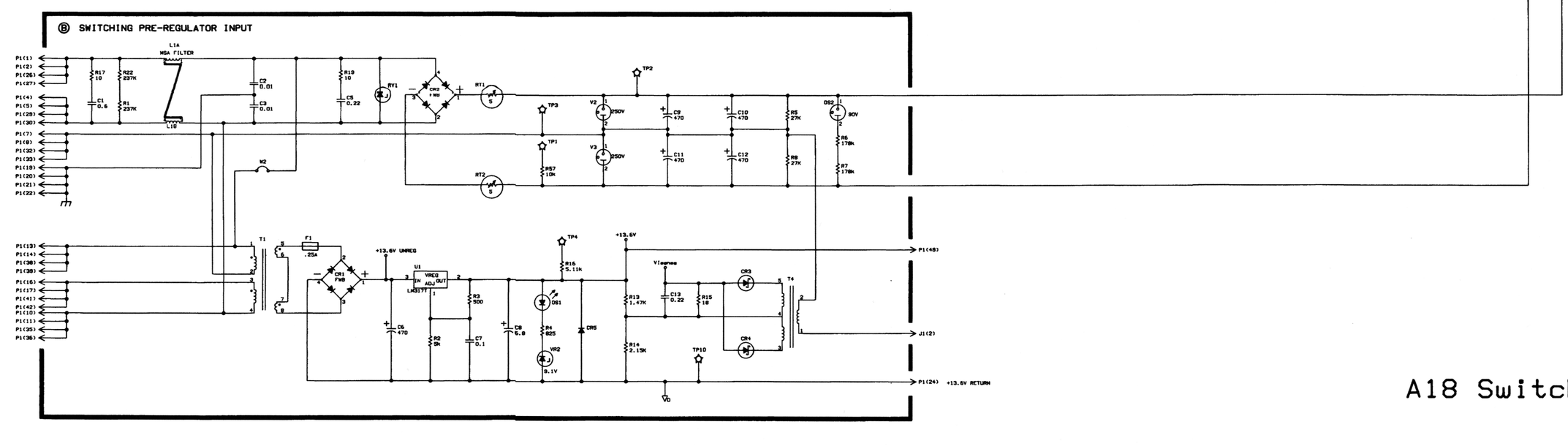
HEWLETT PACKARD

A18 Switching Regulator
08360-60018

Ⓐ SWITCHING PRE-REGULATOR INPUT CONTROL



Ⓑ SWITCHING PRE-REGULATOR INPUT



NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.
4. W1 SHOWN FOR REFERENCE ONLY.

REFERENCE DESIGNATORS

LAST USED	NOT USED
C32	
CR18	CR16
DS7	
F1	
J1	
L2	
P1	
Q2	
RS7	R23, 27, 29, 30, 33, R34-37, 43, 44, 51, 53
RT2	
RV1	
T4	T2
TP10	
U13	
V3	V1
VR2	VR1
W2	

A18 Switching Regulator
08360-60018
(SHEET 1 of 1)

Schematic Package for 08360-60198 A18 Switching Regulator

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Information in this document is subject to change without notice. The configuration of some assemblies may differ from that indicated in this document.



Replaceable Parts List for A18 Switching Regulator Assembly, Part Number 08360–60198 (1 of 4)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A18	08360–60198	1	BD AY–SW REG	28480	08360–60198
A18C1	0160–4259	1	CAP–FXD 0.22uF ±10% 250 V PPR–MET	11892	PME271M622K
A18C2	0160–4439	1	CAP–FXD 4700pF ±20% 1 kV PPR–MET	11892	PME271Y447M
A18C3	0160–4439	1	CAP–FXD 4700pF ±20% 1 kV PPR–MET	11892	PME271Y447M
A18C4	0160–4808	1	CAP–FXD 470pF ±5% 100 V CER C0G	02010	SA101A471JAAH
A18C5	0160–4413	1	CAP–FXD 0.6uF ±10% 250 V PPR–MET	11892	PME271M660K
A18C6	0180–3401	1	CAP–FXD 470uF ±20% 50 V AL–ELCTLT	00493	KMC 50 VB 471 M 16X25
A18C7	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A18C8	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A18C9	0180–4081	1	CAP–FXD 470uF +30% –10% 250 V AL–ELCTLT	04200	80D2359
A18C10	0180–4081	1	CAP–FXD 470uF +30% –10% 250 V AL–ELCTLT	04200	80D2359
A18C11	0180–4081	1	CAP–FXD 470uF +30% –10% 250 V AL–ELCTLT	04200	80D2359
A18C12	0180–4081	1	CAP–FXD 470uF +30% –10% 250 V AL–ELCTLT	04200	80D2359
A18C13	0160–5098	1	CAP–FXD 0.22uF ±10% 50 V CER X7R	02010	SA405C224KAAH
A18C14	0160–7363	1	CAP–FXD 1uF ±10% 250 V POLYP–MET	11892	PMR22.5105K250
A18C15	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A18C16	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A18C17	0180–4129	1	CAP–FXD 1uF ±10% 35 V TA	04200	173D105X9035V
A18C18	0180–4135	1	CAP–FXD 33uF ±10% 10 V TA	04200	173D336X9010X
A18C19	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A18C20	0180–3713	1	CAP–FXD 2.2uF ±10% 25 V TA	04200	173D225X9025V
A18C21	0160–4822	1	CAP–FXD 1000pF ±5% 100 V CER C0G	02010	SA201A102JAAH
A18C22	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A18C23	0180–3713	1	CAP–FXD 2.2uF ±10% 25 V TA	04200	173D225X9025V
A18C24	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A18C25	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A18C26	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A18C27	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A18C28	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A18C29	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A18C30	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A18C31	0160–4833	1	CAP–FXD 0.022uF ±10% 100 V CER X7R	02010	SA201C223KAAH
A18C32	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A18CR1	1906–0094	1	DIODE–FW BRDG 400V 1.5A	03171	
A18CR2	1906–0309	1	DIODE–FW BRDG 800V 10A	03627	SDA165F–40
A18CR3	1901–0734	1	DIODE–PWR RECT 1N5818 30V 1A	02037	1N5818
A18CR4	1901–0734	1	DIODE–PWR RECT 1N5818 30V 1A	02037	1N5818
A18CR5	1901–1081	1	DIODE–PWR RECT 100V 3A	02037	1N5401
A18CR6	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR7	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR8	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR9	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR10	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR11	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR12	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR13	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	

Replaceable Parts List for A18 Switching Regulator Assembly, Part Number 08360–60198 (2 of 4)

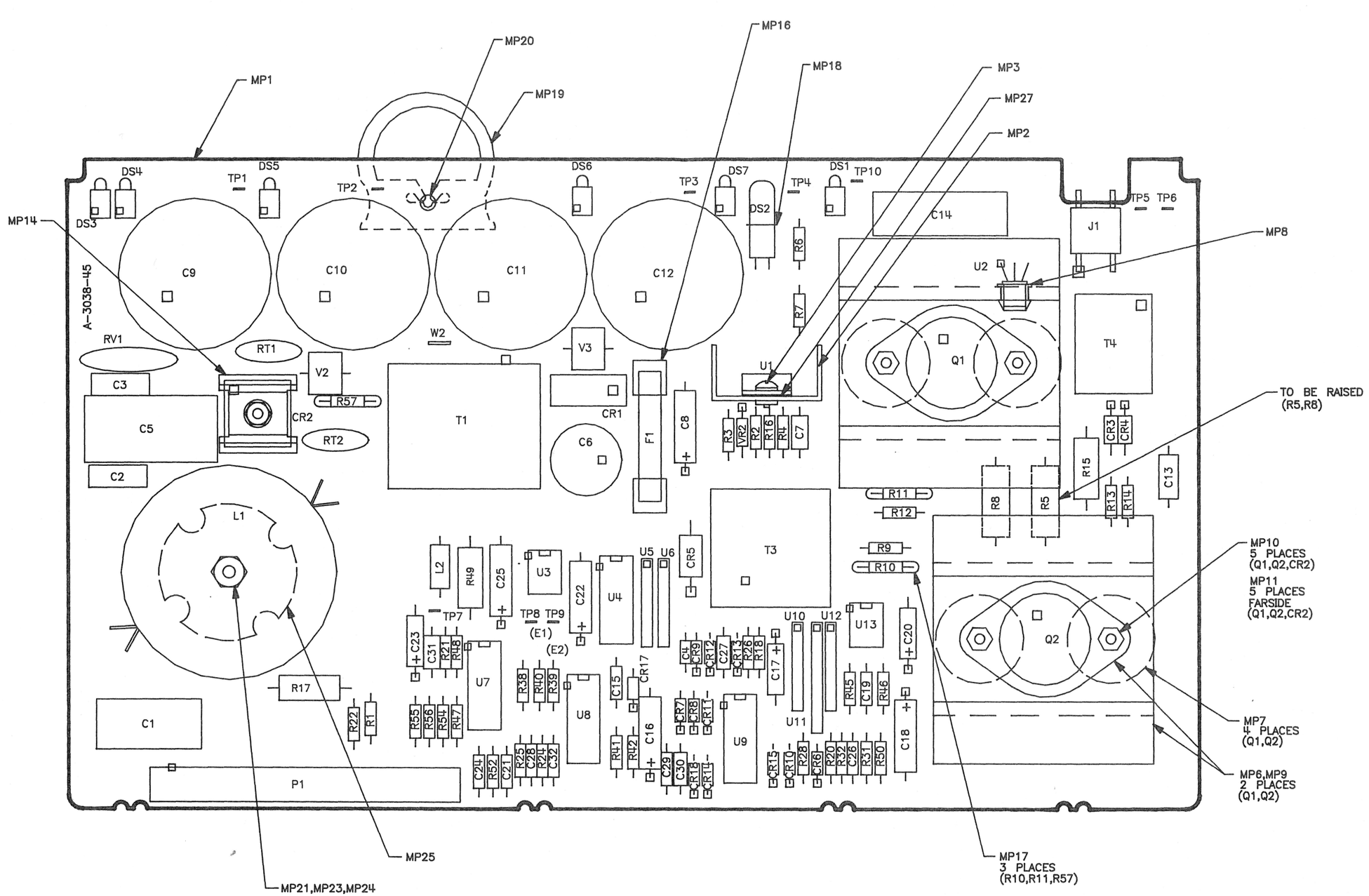
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A18CR14	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR15	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR17	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18CR18	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A18DS1	1990–1079	1	LED–LAMP LUM–INT=1MCD IF=25MA–MAX BVR=5V	01542	HLMP–1503–101
A18DS2	2140–0018	1	LAMP–GLOW A9A–CT 90VDC 700UA T–2–BULB	07338	
A18DS3	1990–1275	1	LED–LAMP LUM–INT=1.5MCD IF=50MA–MAX	01542	HLMP–1002–101
A18DS4	1990–1275	1	LED–LAMP LUM–INT=1.5MCD IF=50MA–MAX	01542	HLMP–1002–101
A18DS5	1990–1275	1	LED–LAMP LUM–INT=1.5MCD IF=50MA–MAX	01542	HLMP–1002–101
A18DS6	1990–1275	1	LED–LAMP LUM–INT=1.5MCD IF=50MA–MAX	01542	HLMP–1002–101
A18DS7	1990–1274	1	LED–LAMP LUM–INT=2MCD IF=20MA–MAX BVR=5V	01542	HLMP–1401–101
A18F1	2110–0201	1	FUSE (INCH) .25A 250V TD FE UL	02805	MDL–1/4
A18J1	1252–2790	1	CONN–POST TYPE .156–PIN–SPCG 2–CONT	04726	YLK–1003–L04A60–JPR
A18L1	9140–0879	1	INDUCTOR 40MH ±20% 1.95D–IN	04200	99ZSPA44267
A18L2	9100–3562	1	INDUCTOR RF–CH–MLD 4.7UH ±5%	03273	15M471J
A18MP2	1205–0595	1	HEAT SINK SGL PLSTC–PWR–CS	02608	6021PB/W PEM NUT
A18MP3	0515–0430	1	SCREW–MACHINE ASSEMBLY M3 X 0.5 6MM–LG	05610	
A18MP6	08360–20046	2	HEATSINK		
A18MP7	08360–40005	4	INSULATOR – HEATSINK		
A18MP8	08360–20047	1	INSULATOR – THMS		
A18MP9	0340–1175	2	INSULATOR–XSTR THRM–CNDCT	05447	K–4–03
A18MP10	0535–0031	5	NUT–HEX W/LKWR M3 X 0.5 2.4MM–THK	06691	
A18MP11	0570–0647	5	STD–PRS–IN M3 X 0.5 15.000 PH–BRZ	03981	KFH–M3–15–ET
A18MP14	08753–00024	1	HEATSINK		
A18MP16	2110–0643	1	FUHLR–CLP–TYP 15A 250V	09694	FH–8000
A18MP17	0340–1158	3	SPACER–COMPONENT FOR DISCRETE COMPONENTS	03724	316–500
A18MP18	8151–0014		WIRE 24AWG 1X24	05623	
A18MP19	5040–6846	1	BOARD EXTRACTOR		
A18MP20	5000–9044	1	EXTRACTOR PIN		
A18MP21	0515–0670	1	SCREW–MACHINE ASSEMBLY M4 X 0.7 45MM–LG	05610	
A18MP23	3050–0893	1	WASHER–FL MTLC 4.0 4.4–MM–ID 8.85–MM–OD	06691	
A18MP24	0535–0006	1	NUT–HEX DBL–CHAM M4 X 0.7 3.8MM–THK	06691	
A18MP25	08360–40009	1	INSULATOR–XFMR		
A18MP27	0340–1170	1	INSULATOR–XSTR THRM–CNDCT	05447	K10AC–58
A18P1	1252–2736	1	CONN–POST TYPE .100–PIN–SPCG 38–CONT	01380	535525–1
A18Q1	1855–0536	1	TRANSISTOR MOSFET N–CHAN E–MODE TO–3 SI	02037	IRF440
A18Q2	1855–0536	1	TRANSISTOR MOSFET N–CHAN E–MODE TO–3 SI	02037	IRF440
A18R1	0698–3266	1	RESISTOR 237K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R2	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A18R3	0698–6317	1	RESISTOR 500 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A18R4	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R5	0764–0007	1	RESISTOR 27K ±5% 2W MO TC=0±200	02499	GS–3
A18R6	0698–3243	1	RESISTOR 178K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R7	0698–3243	1	RESISTOR 178K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R8	0764–0007	1	RESISTOR 27K ±5% 2W MO TC=0±200	02499	GS–3

Replaceable Parts List for A18 Switching Regulator Assembly, Part Number 08360–60198 (3 of 4)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A18R9	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R10	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R11	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R12	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R13	0757–1094	1	RESISTOR 1.47K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R14	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R15	0698–3607	1	RESISTOR 18 ±5% 2W MO TC=0±200	02499	GS–3
A18R16	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R17	0811–1084	1	RESISTOR 22 ±5% 3W PWI TC=0±30	01854	T2B–79
A18R18	0698–6619	1	RESISTOR 15K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A18R20	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R21	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R22	0698–3266	1	RESISTOR 237K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R24	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R25	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R26	0698–3451	1	RESISTOR 133K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R28	0757–0465	1	RESISTOR 100K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R31	0757–0428	1	RESISTOR 1.62K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R32	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R38	0757–0444	1	RESISTOR 12.1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R39	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R40	0698–3266	1	RESISTOR 237K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R41	0698–3156	1	RESISTOR 14.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R42	0757–0123	1	RESISTOR 34.8K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R45	0757–0123	1	RESISTOR 34.8K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R46	0698–3429	1	RESISTOR 19.6 ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R47	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R48	0698–3441	1	RESISTOR 215 ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R49	0698–3601	1	RESISTOR 10 ±5% 2W MO TC=0±200	02499	GS–3
A18R50	0698–3446	1	RESISTOR 383 ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R52	0698–3266	1	RESISTOR 237K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R54	0698–0084	1	RESISTOR 2.15K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R55	0698–6614	1	RESISTOR 7.5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A18R56	0698–3445	1	RESISTOR 348 ±1% .125W TF TC=0±100	05524	CMF–55–1
A18R57	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A18RT1	0837–0135	1	THERMISTOR DISC 5–OHM TC=–3.3–DEG	12830	SG–62
A18RT2	0837–0135	1	THERMISTOR DISC 5–OHM TC=–3.3–DEG	12830	SG–62
A18RV1	0837–0261	1	VOLTAGE SUPPRESSOR PEAK CURRENT=4500A	03799	V275LA20A
A18T1	9100–4755	1	XFMR–PWR 115/230V	00715	PSD3–24
A18T3	9100–4742	1	TRANSFORMER–PULSE; PRI IND: 1.5 MH	01869	PE–63387
A18T4	9100–4440	1	TRANSFORMER SECONDARY INDUCTANCE: 5.0 MH	01869	63617
A18TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A18TP2	1460–2201	1	SPRING RADIAL TEST POINT		
A18TP3	1460–2201	1	SPRING RADIAL TEST POINT		
A18TP4	1460–2201	1	SPRING RADIAL TEST POINT		

Replaceable Parts List for A18 Switching Regulator Assembly, Part Number 08360–60198 (4 of 4)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A18TP5	1460–2201	1	SPRING RADIAL TEST POINT		
A18TP6	1460–2201	1	SPRING RADIAL TEST POINT		
A18TP7	1460–2201	1	SPRING RADIAL TEST POINT		
A18TP8	1460–2201	1	SPRING RADIAL TEST POINT		
A18TP9	1460–2201	1	SPRING RADIAL TEST POINT		
A18TP10	1460–2201	1	SPRING RADIAL TEST POINT		
A18U1	1826–0393	1	IC V RGLTR–ADJ–POS 1.2/37V 3–TO–220 PKG	03406	LM317T
A18U2	1826–1362	1	IC TEMP XDCR 3 PIN TO–92	03285	AD592AN
A18U3	1826–1431	1	IC V RGLTR–V–REF–FXD 4.9975/5.0025V	10858	LT1021CCN8–5
A18U4	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A18U5	1810–0510	1	NETWORK–RES 8–SIP 20.0K OHM X 4	02483	750–83–R20K
A18U6	1810–1229	1	NETWORK–RES 8–SIP 3.3K OHM X 4	02483	750–83–R 3.3K
A18U7	1826–1243	1	IC V RGLTR–SWG 5/5.2V 16–DIP–C PKG	03793	SG3527AJ
A18U8	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A18U9	1826–0138	1	IC COMPARATOR GP QUAD 14 PIN DIP–P	03406	LM339N
A18U10	1810–0510	1	NETWORK–RES 8–SIP 20.0K OHM X 4	02483	750–83–R20K
A18U11	1810–0483	1	NETWORK–RES 10–SIP 4.7K OHM X 5	02483	750–103–R4.7K
A18U12	1810–0374	1	NETWORK–RES 8–SIP 1.0K OHM X 4	02483	750–83–R1K
A18U13	1826–0180	1	IC TIMER GP 8 PIN DIP–P	02910	NE555N
A18V2	1970–0092	1	TUBE–ELECTRON SURGE V PTCTR	06121	B2–B270Y33
A18V3	1970–0092	1	TUBE–ELECTRON SURGE V PTCTR	06121	B2–B270Y33
A18VR2	1902–0957	1	DIODE–ZNR 9.1V 5% DO–35 PD=.4W TC=+.069	02037	
A18W2	1460–1489	1	WIREFORM BE CU AG	02856	



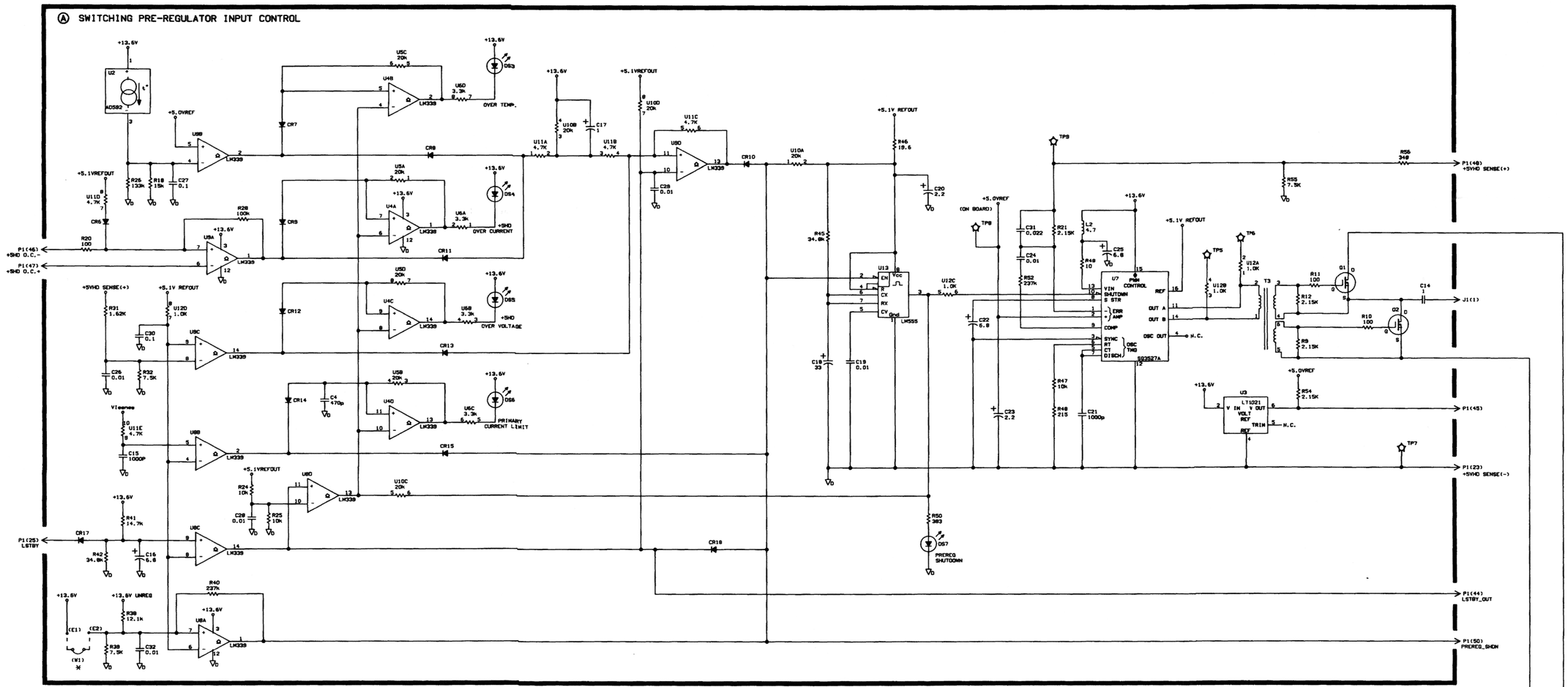
NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

A18 Switching Regulator

08360-60198

Ⓐ SWITCHING PRE-REGULATOR INPUT CONTROL



NOTES: UNLESS OTHERWISE SPECIFIED.

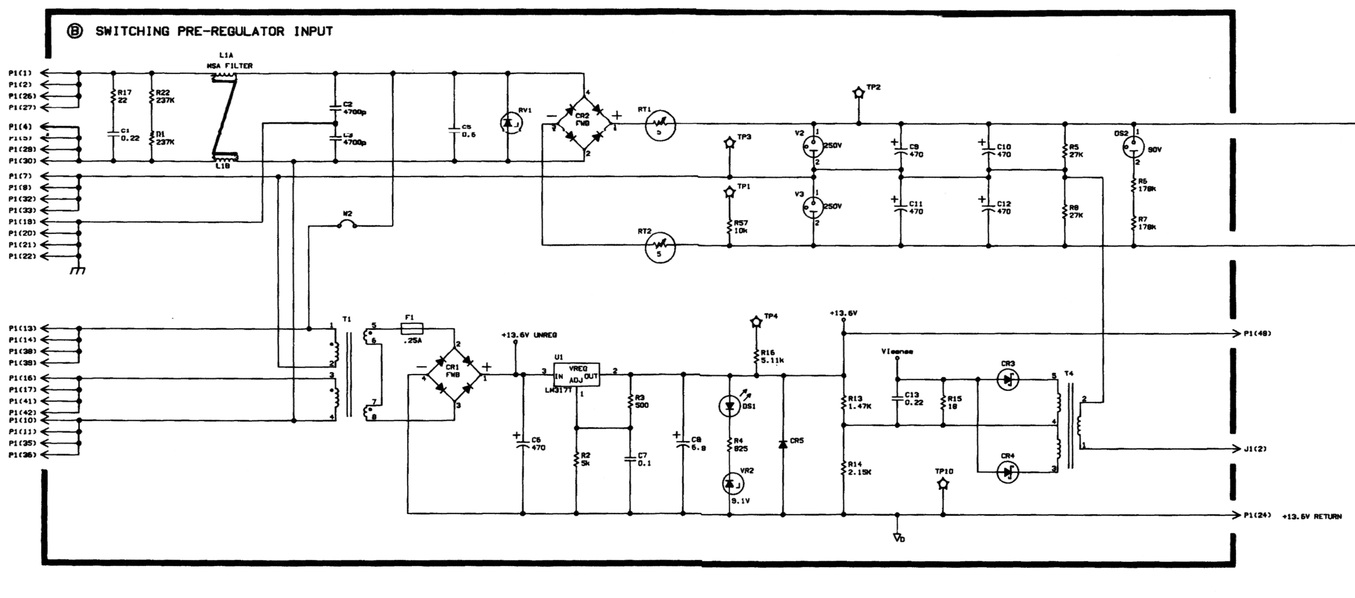
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

* W1 SHOWN FOR REFERENCE ONLY.

REFERENCE DESIGNATORS

LAST USED	NOT USED
C32	
CR18	CR16
DS7	
F1	
J1	
L2	
P1	
Q2	
RS7	R19, R23, 27, 29, 30, R33-37, 43, 44, 51, 53
RT2	
RV1	
T4	T2
TP10	
U13	
V3	V1
VR2	VR1
W2	

Ⓑ SWITCHING PRE-REGULATOR INPUT



A18 Switching Regulator

08360-60198

(SHEET 1 of 1)

Schematic Package for 08360-60019 A19 Rear Panel Interface

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HEWLETT PACKARD

Replaceable Parts List for A19 Rear Panel Interface Assembly, Part Number 08360–60019 (1 of 3)

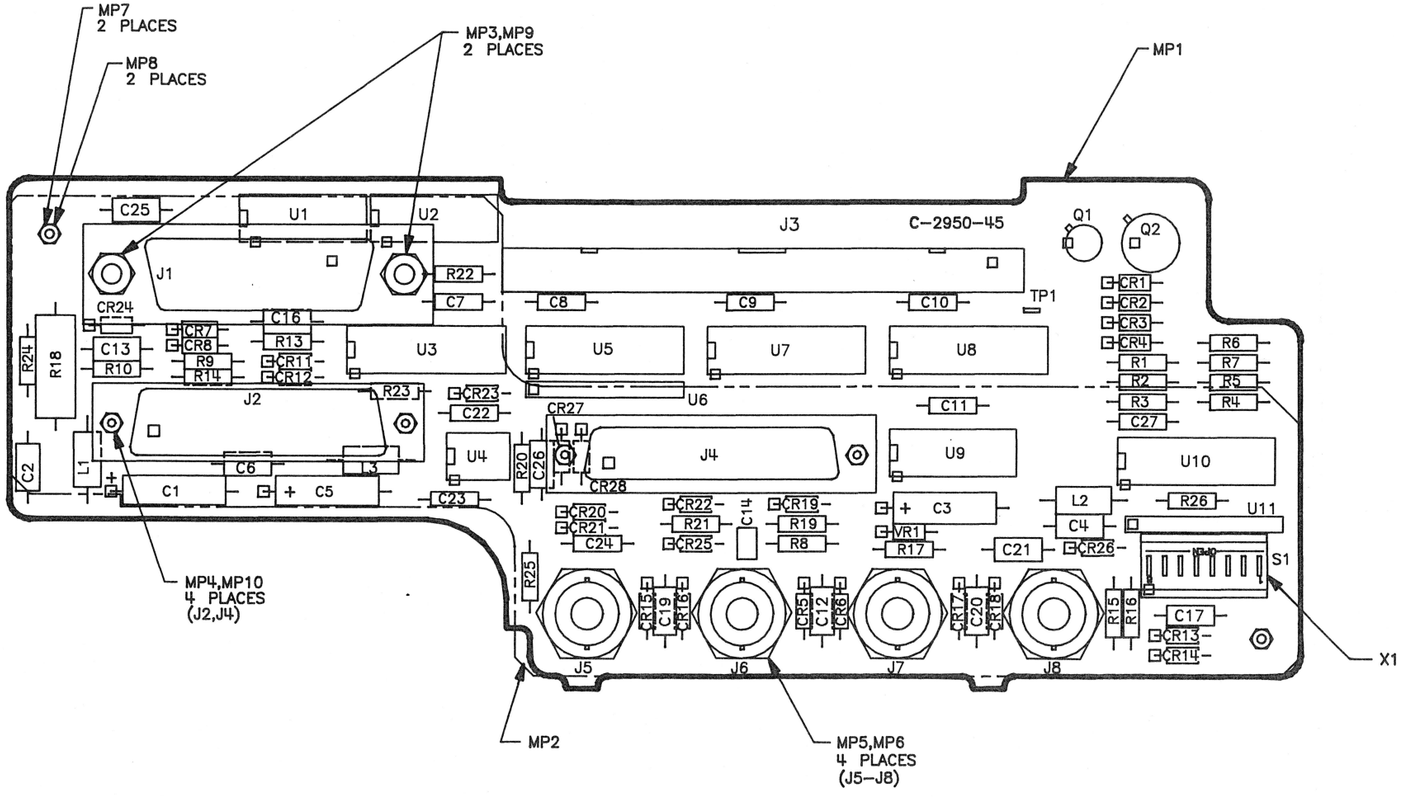
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A19	08360–60019	1	BD AY–RR PNL INT	28480	08360–60019
A19C1	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A19C2	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A19C3	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A19C4	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A19C5	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A19C6	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A19C7	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A19C8	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A19C9	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A19C10	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A19C11	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A19C12	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A19C13	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A19C14	0160–0572	1	CAP–FXD 2200pF ±20% 100 V CER X7R	02010	SR201C222MAAH
A19C16	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A19C17	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A19C19	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A19C20	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A19C21	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A19C22	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A19C23	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A19C24	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A19C25	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A19C26	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A19C27	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A19CR1	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR2	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR3	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR4	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR5	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR6	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR7	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR8	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR11	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR12	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR13	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR14	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR15	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR16	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR17	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR18	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR19	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR20	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR21	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR22	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	

Replaceable Parts List for A19 Rear Panel Interface Assembly, Part Number 08360–60019 (2 of 3)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A19CR23	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR24	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR25	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR26	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR27	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19CR28	1901–0050	1	DIODE–SWITCHING 80V 200MA 2NS DO–35	03406	
A19J1	1252–2733	1	CONN–RECT MICRORBN 24–CKT 24–CONT	01380	554501–2
A19J2	1252–2752	1	CONN–RECT D–SUBMIN 25–CKT 25–CONT	03462	HDC25F3S200X–893.0
A19J3	1251–8827	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	04726	2560–6002UB
A19J4	1252–2751	1	CONN–RECT D–SUBMIN 20–CKT 20–CONT	03462	CBM21W1F3S200X–882.0
A19J5	1250–1453	1	CONNECTOR–RF BNC FEM PC–W–STDFS 50–OHM	03316	28JR175–3
A19J6	1250–1453	1	CONNECTOR–RF BNC FEM PC–W–STDFS 50–OHM	03316	28JR175–3
A19J7	1250–1453	1	CONNECTOR–RF BNC FEM PC–W–STDFS 50–OHM	03316	28JR175–3
A19J8	1250–1453	1	CONNECTOR–RF BNC FEM PC–W–STDFS 50–OHM	03316	28JR175–3
A19L1	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A19L2	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A19L3	9100–3912	1	INDUCTOR RF–CH–MLD 15UH ±5%	03273	15M152J
A19MP2	08360–00017	1	BRACKET–CONNECTOR		
A19MP3	0380–0643	2	STANDOFF–HEX .255–IN–LG 6–32–THD	02685	
A19MP4	1251–7812	4	JACKSCREW–AMPH 17 CONN	02121	ST9412–36
A19MP5	2950–0035	4	NUT–HEX–DBL–CHAM 15/32–32–THD	04567	
A19MP6	2190–0102	4	WASHER–LK INTL T 15/32 IN .472–IN–ID	04805	1922–01
A19MP7	0380–1239	2	STANDOFF–RVT–ON 12–MM–LG M3.0 X 0.5–THD	02121	
A19MP8	0515–1227	2	SCREW–MACH M3 X 0.5 6MM–LG 90–DEG–FLH–HD	05610	
A19MP9	2190–0586	2	WASHER–LK HLCL 4.0 4.1–MM–ID 7.6–MM–OD	06691	A2WASPSR0158
A19MP10	2190–0556	4	WASHER–LK HLCL NO. 4 .115–IN–ID	02559	
A19Q1	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A19Q2	1853–0213	1	TRANSISTOR PNP 2N4236 SI TO–5 PD=1W	02037	2N4236
A19R1	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R2	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R3	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R4	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R5	0698–3155	1	RESISTOR 4.64K ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R6	0698–3154	1	RESISTOR 4.22K ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R7	0698–3150	1	RESISTOR 2.37K ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R8	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R9	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R10	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R13	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R14	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R15	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R16	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R17	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R18	0811–1085	1	RESISTOR 33 ±5% 3W PWI TC=0±30	01854	T2B–79
A19R19	0698–0085	1	RESISTOR 2.61K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A19 Rear Panel Interface Assembly, Part Number 08360–60019 (3 of 3)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A19R20	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R21	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R22	0757–0346	1	RESISTOR 10 ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R23	0757–0401	1	RESISTOR 100 ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R24	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R25	0757–0278	1	RESISTOR 1.78K ±1% .125W TF TC=0±100	05524	CMF–55–1
A19R26	0698–3440	1	RESISTOR 196 ±1% .125W TF TC=0±100	05524	CMF–55–1
A19S1	3101–2094	1	SWITCH–DIP RKR 8–1A 0.15A 30VDC	04990	76YY22308S
A19TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A19U1	1906–0074	1	DIODE–ARRAY 50V 400MA	02037	MMAD1103P
A19U2	1906–0074	1	DIODE–ARRAY 50V 400MA	02037	MMAD1103P
A19U3	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A19U4	1826–1048	1	IC OP AMP PRCN 8 PIN DIP–C	02180	OP–07CZ
A19U5	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A19U6	1810–0279	1	NETWORK–RES 10–SIP 4.7K OHM X 9	05524	MSP10A01
A19U7	1820–3082	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC374N
A19U8	1820–3082	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC374N
A19U9	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A19U10	1820–3299	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC240N
A19U11	1810–0279	1	NETWORK–RES 10–SIP 4.7K OHM X 9	05524	MSP10A01
A19VR1	1902–0943	1	DIODE–ZNR 2.4V 5% DO–35 PD=.4W TC=–.037	02037	
A19X1	1200–0607	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	02414	DILB16P–308T



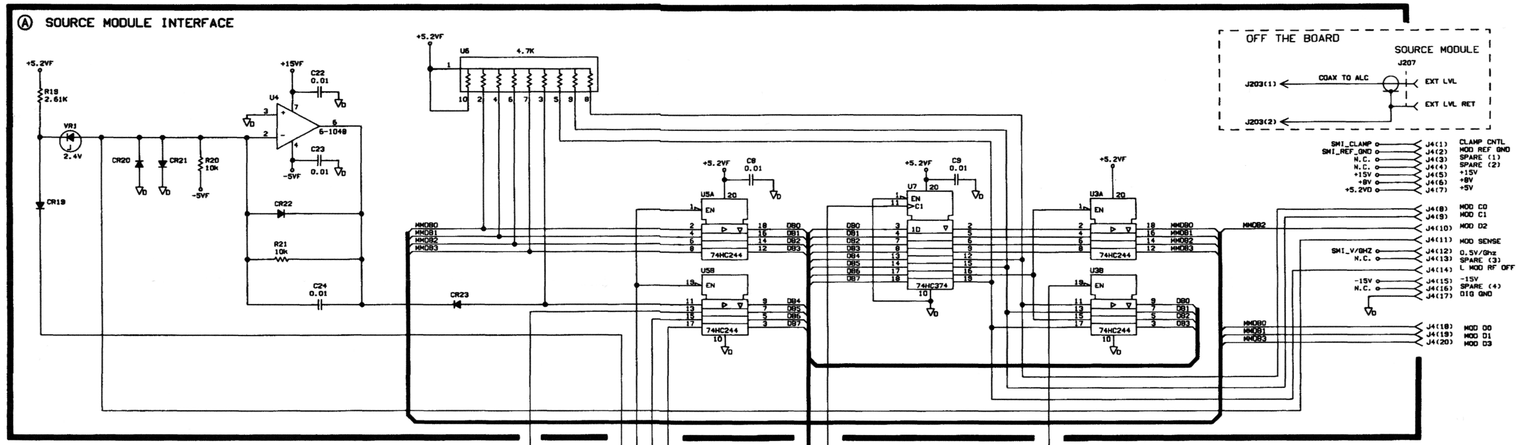
NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

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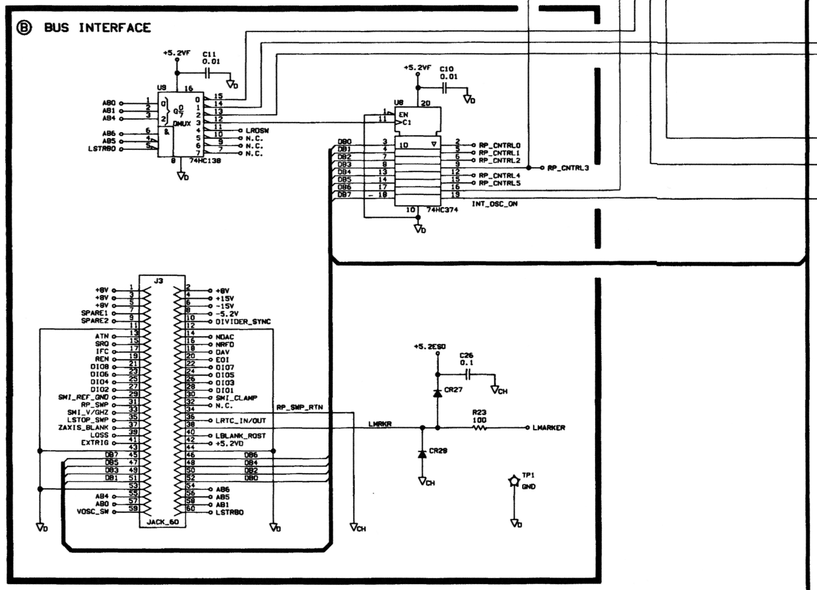
A19 Rear Panel Interface

08360-60019

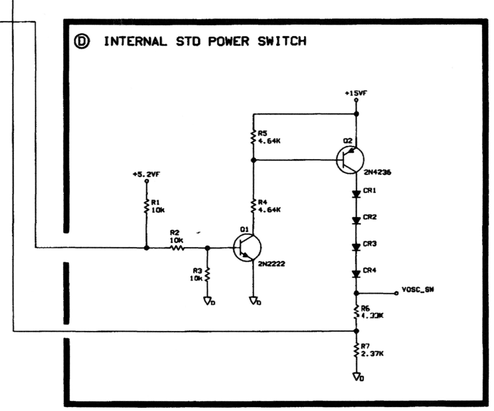
Ⓐ SOURCE MODULE INTERFACE



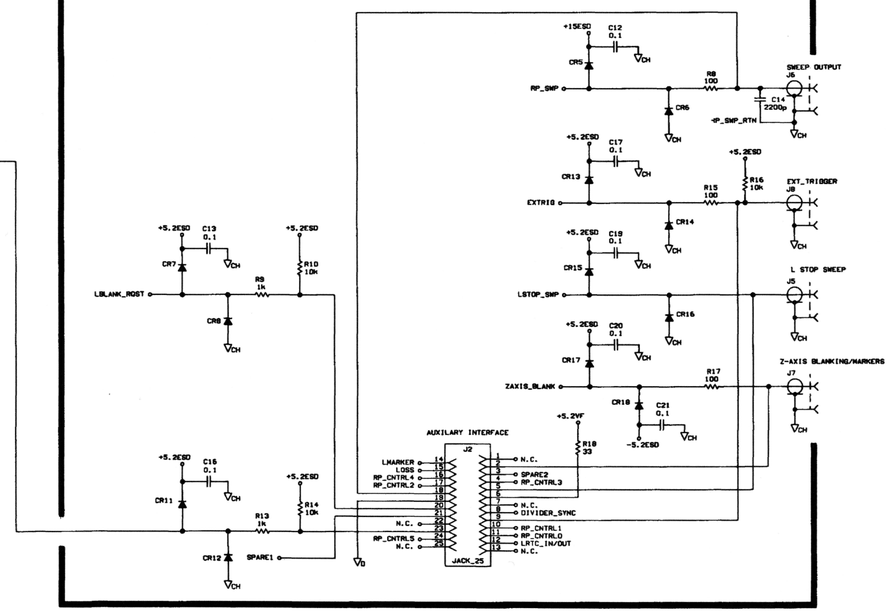
Ⓑ BUS INTERFACE



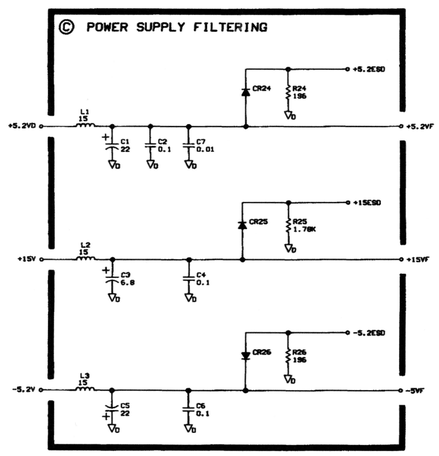
Ⓓ INTERNAL STD POWER SWITCH



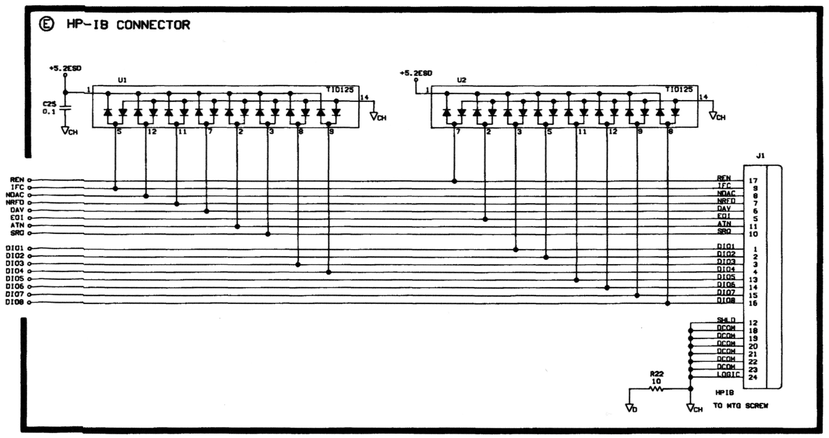
Ⓕ AUXILARY INTERFACE AND BNC CONNECTORS



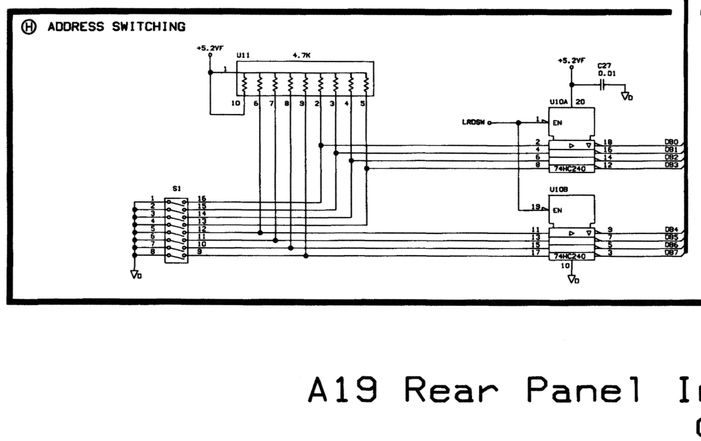
Ⓒ POWER SUPPLY FILTERING



Ⓔ HP-IB CONNECTOR



Ⓗ ADDRESS SWITCHING



NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
C27	C15,18
CR28	CR9,10
J8	
L3	
Q2	
R26	R11,12
SW1	
TP1	
U11	
VR1	

A19 Rear Panel Interface

08360-60019

(SHEET 1 of 1)

Schematic Package for 08360-60004 A20 RF Interface

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Information in this document is subject to change without notice. The configuration of some assemblies may differ from that indicated in this document.

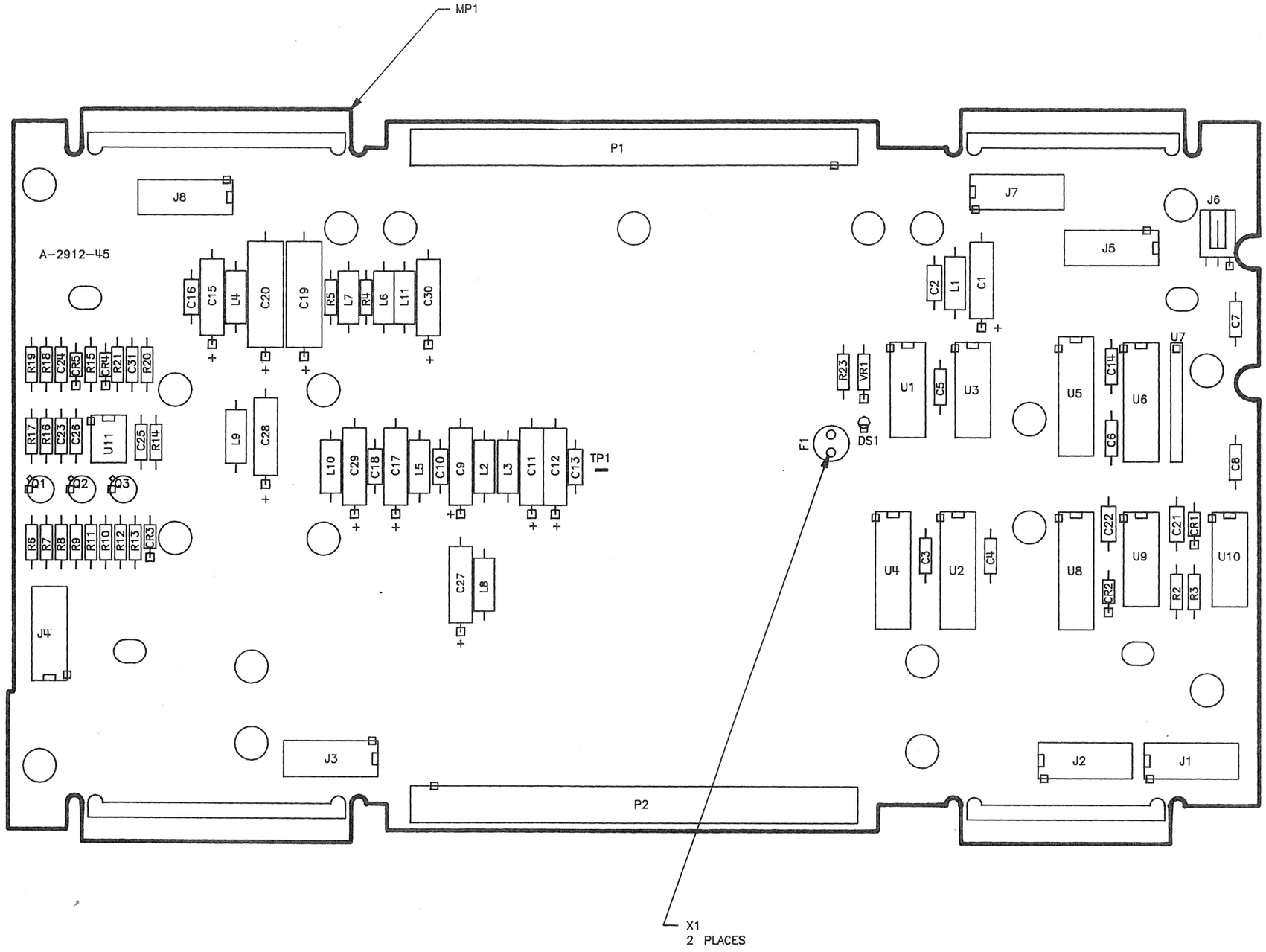
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Replaceable Parts List for A20 RF Interface Assembly, Part Number 08360–60004 (1 of 2)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A20	08360–60004	1	BD AY–RF SEC INT	28480	08360–60004
A20C1	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A20C10	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C11	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C12	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C13	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C14	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C15	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A20C16	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C17	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C18	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C19	0180–2610	1	CAP–FXD 10uF ±10% 75 V TA	04200	150D106X9075R2
A20C2	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C20	0180–2610	1	CAP–FXD 10uF ±10% 75 V TA	04200	150D106X9075R2
A20C21	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C22	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C23	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C24	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C25	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C26	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C27	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C28	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A20C29	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C3	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C30	0180–3143	1	CAP–FXD 3.3uF ±10% 75 V TA	04200	150D335X9075B2
A20C31	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C4	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C5	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C6	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C7	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C8	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C9	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20CR1	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A20CR2	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A20CR3	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A20CR4	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A20CR5	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A20DS1	1990–0678	1	LED–LAMP LUM–INT=800UCD IF=30MA–MAX	01542	HLMP–6500 (SEL)
A20F1	2110–0425	1	FUSE (INCH) 2A 125V NTD BI	02805	GMW 2A
A20J1	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J2	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J3	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J4	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J5	1200–0483	1	SOCKET–IC–DIP 14–CONT DIP–SLDR	05518	514–AG11D
A20J6	1252–1882	1	CONN–POST TYPE .100–PIN–SPCG 3–CONT	02946	78208–103
A20J7	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J8	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20L1	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L10	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L11	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L2	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K

Replaceable Parts List for A20 RF Interface Assembly, Part Number 08360–60004 (2 of 2)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A20L3	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L4	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L5	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L6	9100–2559	1	INDUCTOR RF–CH–MLD 56UH ±10%	03273	
A20L7	9100–2559	1	INDUCTOR RF–CH–MLD 56UH ±10%	03273	
A20L8	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L9	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20MP17	1251–8786	2	CONN–POST TYPE .100–PIN–SPCG 70–CONT	01380	1–534204–3
A20Q1	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A20Q2	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A20Q3	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A20R10	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R11	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R12	0698–0085	1	RESISTOR 2.61K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R13	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R14	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R15	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R16	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R17	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R18	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A20R19	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A20R2	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R20	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R21	0698–3449	1	RESISTOR 28.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R23	0698–0082	1	RESISTOR 464 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R3	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R4	0698–8812	1	RESISTOR 1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R5	0698–8812	1	RESISTOR 1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R6	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R7	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R8	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R9	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A20U1	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A20U10	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A20U11	1826–0412	1	IC COMPARATOR PRCN DUAL 8 PIN DIP–P	03406	LM393N
A20U2	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U3	1820–3146	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC175N
A20U4	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U5	1858–0069	1	TRANSISTOR ARRAY 18–LEAD PLSTC DIP	13307	ULN–2803A
A20U6	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A20U7	1810–0279	1	NETWORK–RES 10–SIP 4.7K OHM X 9	05524	MSP10A01
A20U8	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U9	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A20VR1	1902–0952	1	DIODE–ZNR 5.6V 5% DO–35 PD=.4W TC=+.046	02037	SZ30035–10RL
A20X1	1251–2313	2	CONNECTOR–SGL CONT SKT .04–IN–BSC–SZ RND	01380	3–332070–5



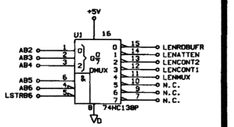
NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

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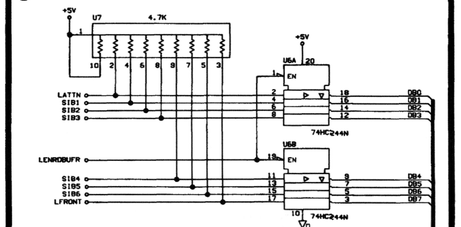
A20 RF Interface

08360-60004

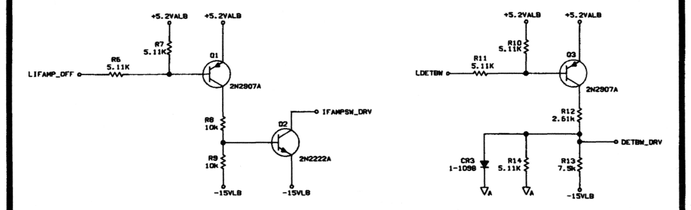
Ⓐ STROBE GENERATOR



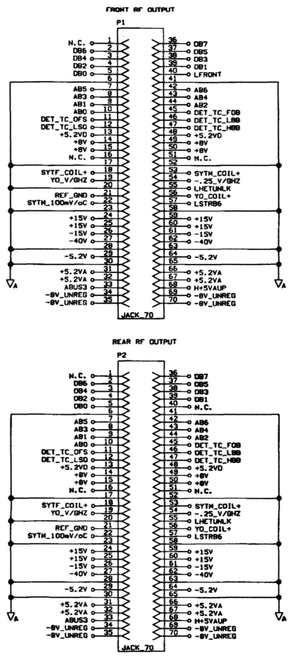
Ⓓ DATA READ BUFFER



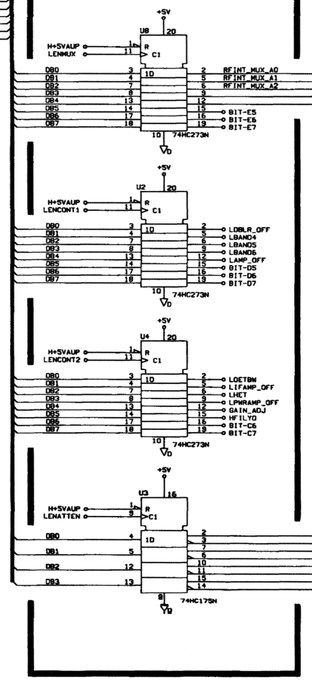
Ⓙ LEVEL TRANSLATOR



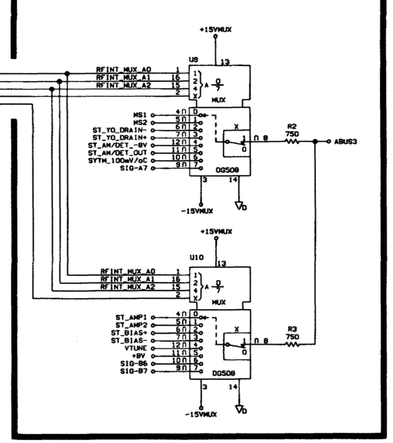
Ⓑ MOTHER BOARD



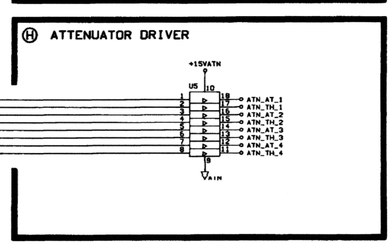
Ⓔ DATA WRITE LATCH



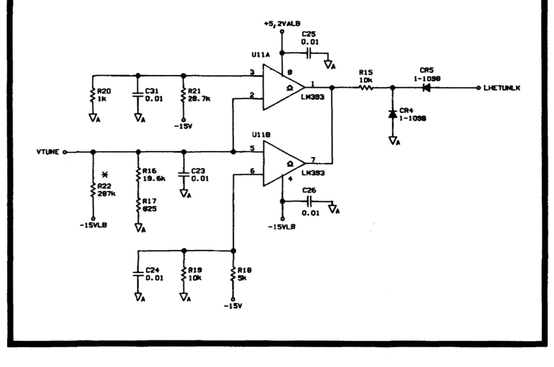
Ⓕ SELF TEST ANALOG MUX



Ⓗ ATTENUATOR DRIVER



Ⓚ UNLOCK DETECTOR



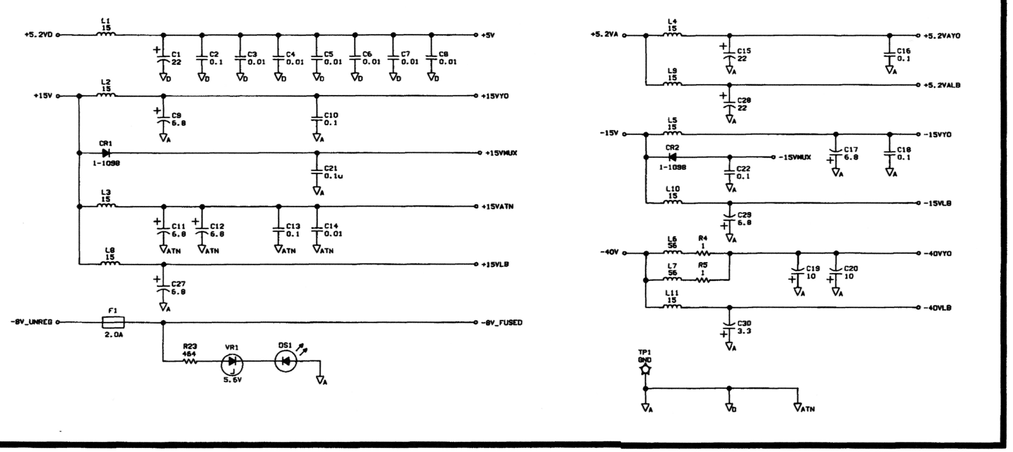
NOTES: UNLESS OTHERWISE SPECIFIED.

1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

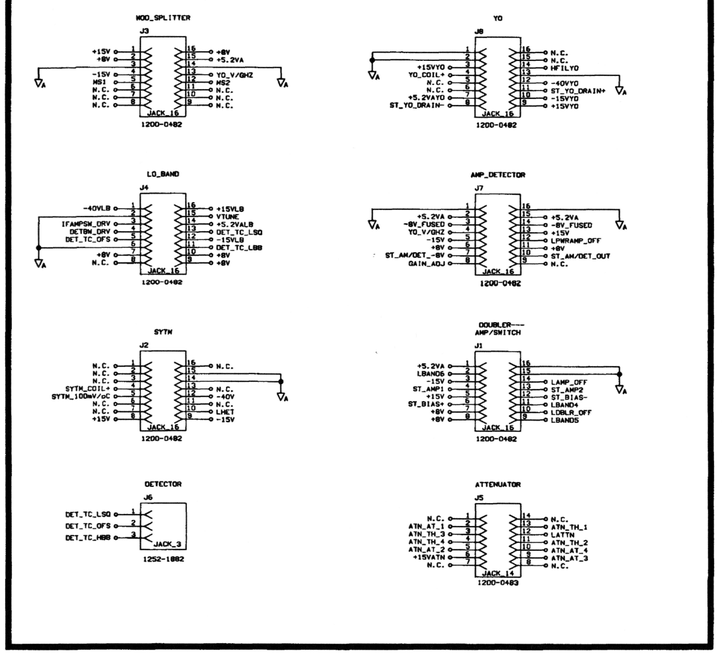
REFERENCE DESIGNATORS	
LAST USED	NOT USED
C31	
CR5	
DB1	
F1	
J8	
L11	
P2	
Q3	
R23	R1
TP1	
U11	
VR1	

✳ R22 - NOT LOADED

Ⓒ POWER SUPPLY FILTER



Ⓛ MICROCIRCUIT CONNECTORS



A20 RF Interface

08360-60004

(SHEET 1 of 1)

Schematic Package for 08360-60187 A20 RF Interface

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Information in this document is subject to change without notice. The configuration of some assemblies may differ from that indicated in this document.

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Replaceable Parts List for A20 RF Interface Assembly, Part Number 08360–60187 (1 of 3)

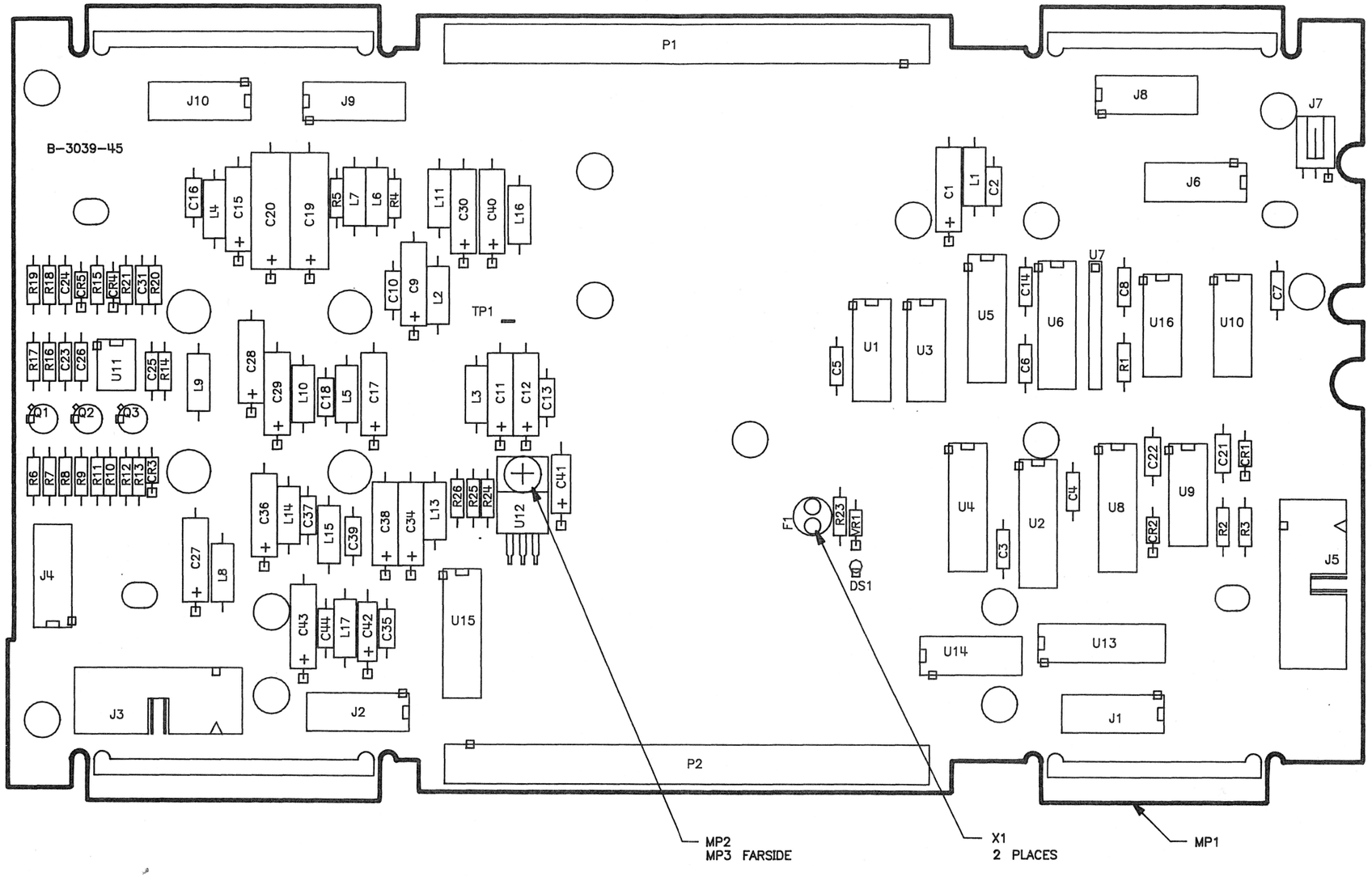
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A20	08360–60187	1	BD AY–RF INTERFC	28480	08360–60187
A20C1	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A20C2	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C3	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C4	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C5	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C6	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C7	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C8	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C9	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C10	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C11	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C12	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C13	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C14	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C15	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A20C16	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C17	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C18	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C19	0180–2610	1	CAP–FXD 10uF ±10% 75 V TA	04200	150D106X9075R2
A20C20	0180–2610	1	CAP–FXD 10uF ±10% 75 V TA	04200	150D106X9075R2
A20C21	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C22	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C23	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C24	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C25	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C26	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C27	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C28	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A20C29	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C30	0180–3143	1	CAP–FXD 3.3uF ±10% 75 V TA	04200	150D335X9075B2
A20C31	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C34	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C35	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C36	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A20C37	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C38	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C39	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C40	0180–3143	1	CAP–FXD 3.3uF ±10% 75 V TA	04200	150D335X9075B2
A20C41	0180–4129	1	CAP–FXD 1uF ±10% 35 V TA	04200	173D105X9035V
A20C42	0180–4129	1	CAP–FXD 1uF ±10% 35 V TA	04200	173D105X9035V
A20C43	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A20C44	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20CR1	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A20CR2	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A20CR3	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	

Replaceable Parts List for A20 RF Interface Assembly, Part Number 08360–60187 (2 of 3)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A20CR4	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A20CR5	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A20DS1	1990–0678	1	LED–LAMP LUM–INT=800UCD IF=30MA–MAX	01542	HLMP–6500 (SEL)
A20F1	2110–0425	1	FUSE (INCH) 2A 125V NTD BI	02805	GMW 2A
A20J1	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J2	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J3	1251–8473	1	CONN–POST TYPE .100–PIN–SPCG 20–CONT	04726	2520–5002UB
A20J4	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J5	1251–8473	1	CONN–POST TYPE .100–PIN–SPCG 20–CONT	04726	2520–5002UB
A20J6	1200–0483	1	SOCKET–IC–DIP 14–CONT DIP–SLDR	05518	514–AG11D
A20J7	1252–1882	1	CONN–POST TYPE .100–PIN–SPCG 3–CONT	02946	78208–103
A20J8	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J9	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J10	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20L1	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L2	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L3	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L4	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L5	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L6	9100–2559	1	INDUCTOR RF–CH–MLD 56UH ±10%	03273	
A20L7	9100–2559	1	INDUCTOR RF–CH–MLD 56UH ±10%	03273	
A20L8	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L9	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L10	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L11	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L13	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L14	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L15	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L16	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L17	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20MP2	0515–0430	1	SCREW–MACHINE ASSEMBLY M3 X 0.5 6MM–LG	05610	
A20MP3	0590–1095	1	THREADED INSERT–NUT M3 X 0.5 1.5–MM–LG	03981	KF2–M3–ZI
A20P1	1251–8786	1	CONN–POST TYPE .100–PIN–SPCG 70–CONT	01380	1–534204–3
A20P2	1251–8786	1	CONN–POST TYPE .100–PIN–SPCG 70–CONT	01380	1–534204–3
A20Q1	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A20Q2	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A20Q3	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A20R1	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R2	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R3	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R4	0698–8812	1	RESISTOR 1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R5	0698–8812	1	RESISTOR 1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R6	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R7	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R8	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A20 RF Interface Assembly, Part Number 08360–60187 (3 of 3)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A20R9	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R10	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R11	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R12	0698–0085	1	RESISTOR 2.61K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R13	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R14	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R15	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R16	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R17	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R18	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A20R19	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A20R20	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R21	0698–3449	1	RESISTOR 28.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R23	0698–0082	1	RESISTOR 464 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R24	0698–6782	1	RESISTOR 250 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A20R25	0698–6344	1	RESISTOR 900 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A20R26	0757–0395	1	RESISTOR 56.2 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A20U1	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A20U2	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U3	1820–3146	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC175N
A20U4	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U5	1858–0069	1	TRANSISTOR ARRAY 18–LEAD PLSTC DIP	13307	ULN–2803A
A20U6	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A20U7	1810–0279	1	NETWORK–RES 10–SIP 4.7K OHM X 9	05524	MSP10A01
A20U8	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U9	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A20U10	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A20U11	1826–0412	1	IC COMPARATOR PRCN DUAL 8 PIN DIP–P	03406	LM393N
A20U12	1826–0527	1	IC V RGLTR–ADJ–NEG 1.2/37V 3–TO–220 PKG	03406	LM337T
A20U13	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U14	1820–2922	1	IC GATE CMOS/HC NAND QUAD 2–INP	02037	MC74HC00N
A20U15	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U16	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A20VR1	1902–0952	1	DIODE–ZNR 5.6V 5% DO–35 PD=.4W TC=+.046	02037	SZ30035–10RL
A20X1	1251–2313	2	CONNECTOR–SGL CONT SKT .04–IN–BSC–SZ RND	01380	3–332070–5



NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

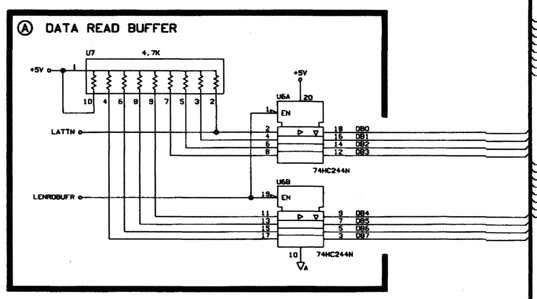
A20 RF Interface

08360-60187

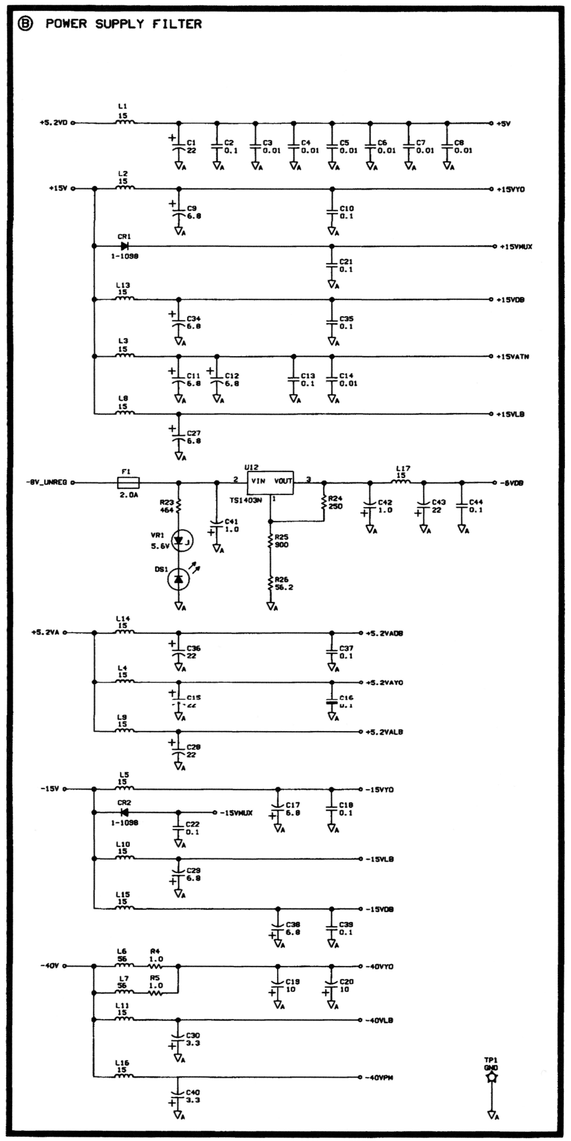
NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
C44	C32,33
CR5	
DS1	
F1	
J10	
L17	L12
P2	
Q3	
R26	
TP1	
U15	
VR1	

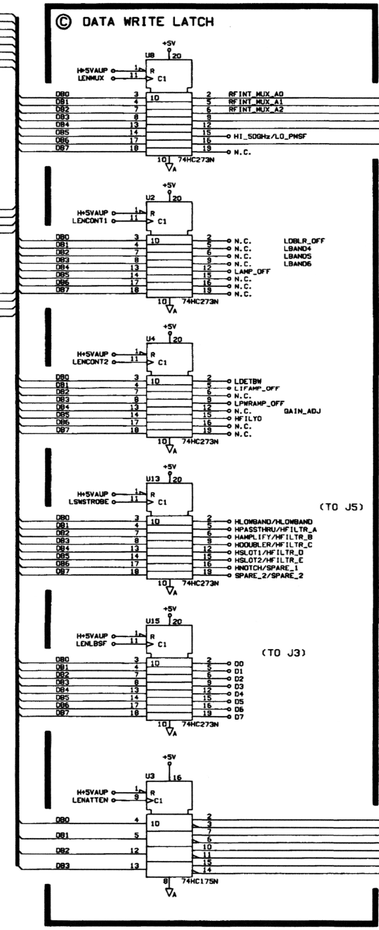
A DATA READ BUFFER



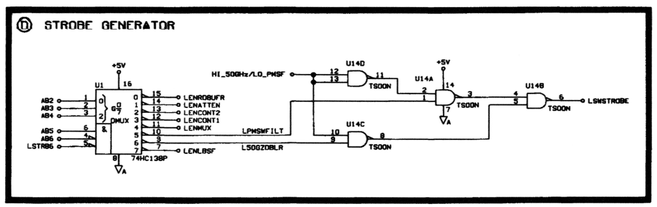
B POWER SUPPLY FILTER



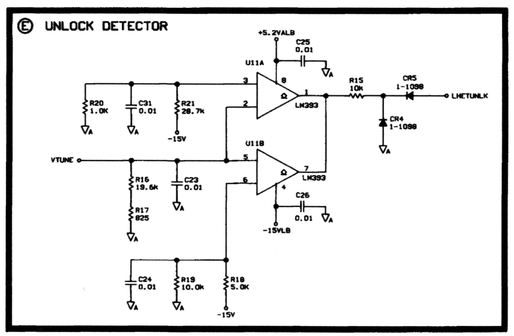
C DATA WRITE LATCH



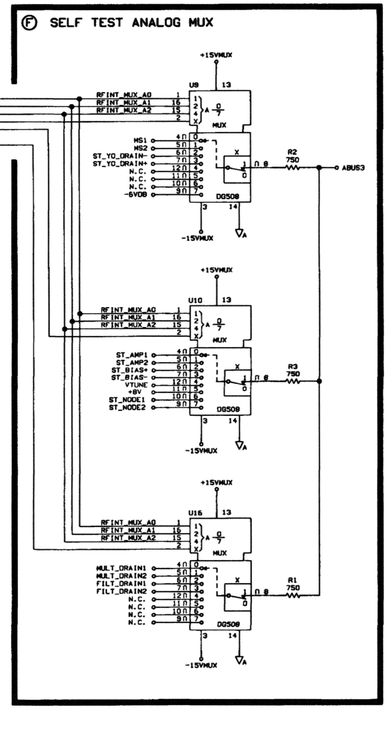
D STROBE GENERATOR



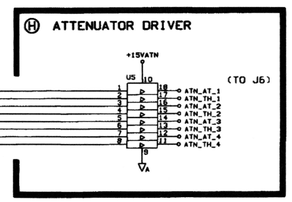
E UNLOCK DETECTOR



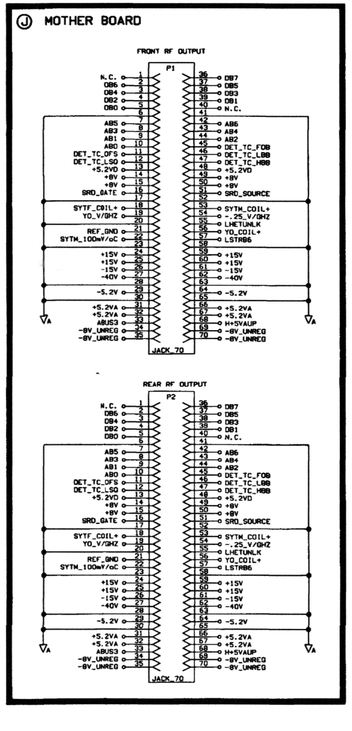
F SELF TEST ANALOG MUX



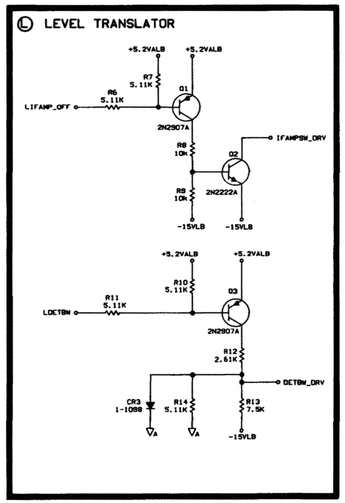
G ATTENUATOR DRIVER



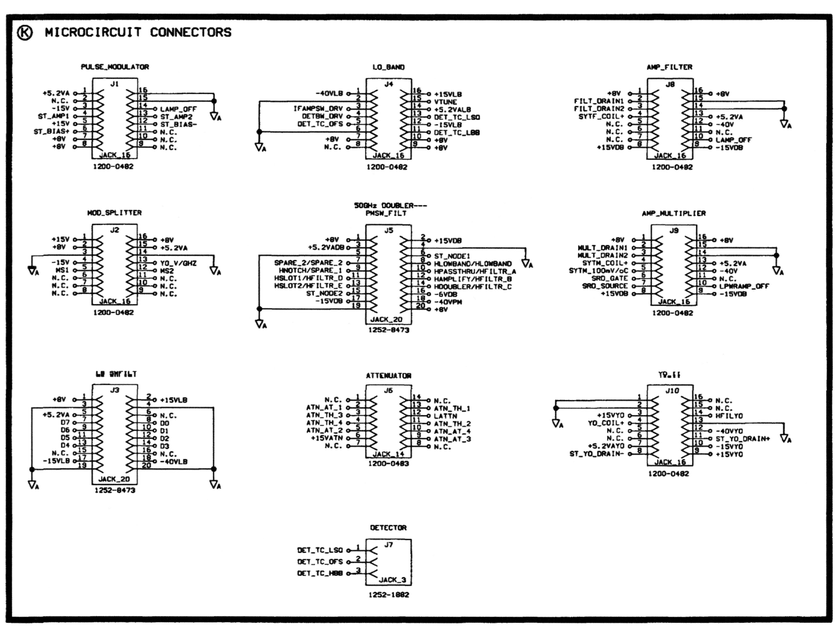
H MOTHER BOARD



I LEVEL TRANSLATOR



J MICROCIRCUIT CONNECTORS



A20 RF Interface
08360-60187
(SHEET 1 of 1)

Schematic Package for 08360-60223 A20 RF Interface

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Information in this document is subject to change without notice. The configuration of some assemblies may differ from that indicated in this document.



Replaceable Parts List for A20 RF Interface Assembly, Part Number 08360–60223 (1 of 3)

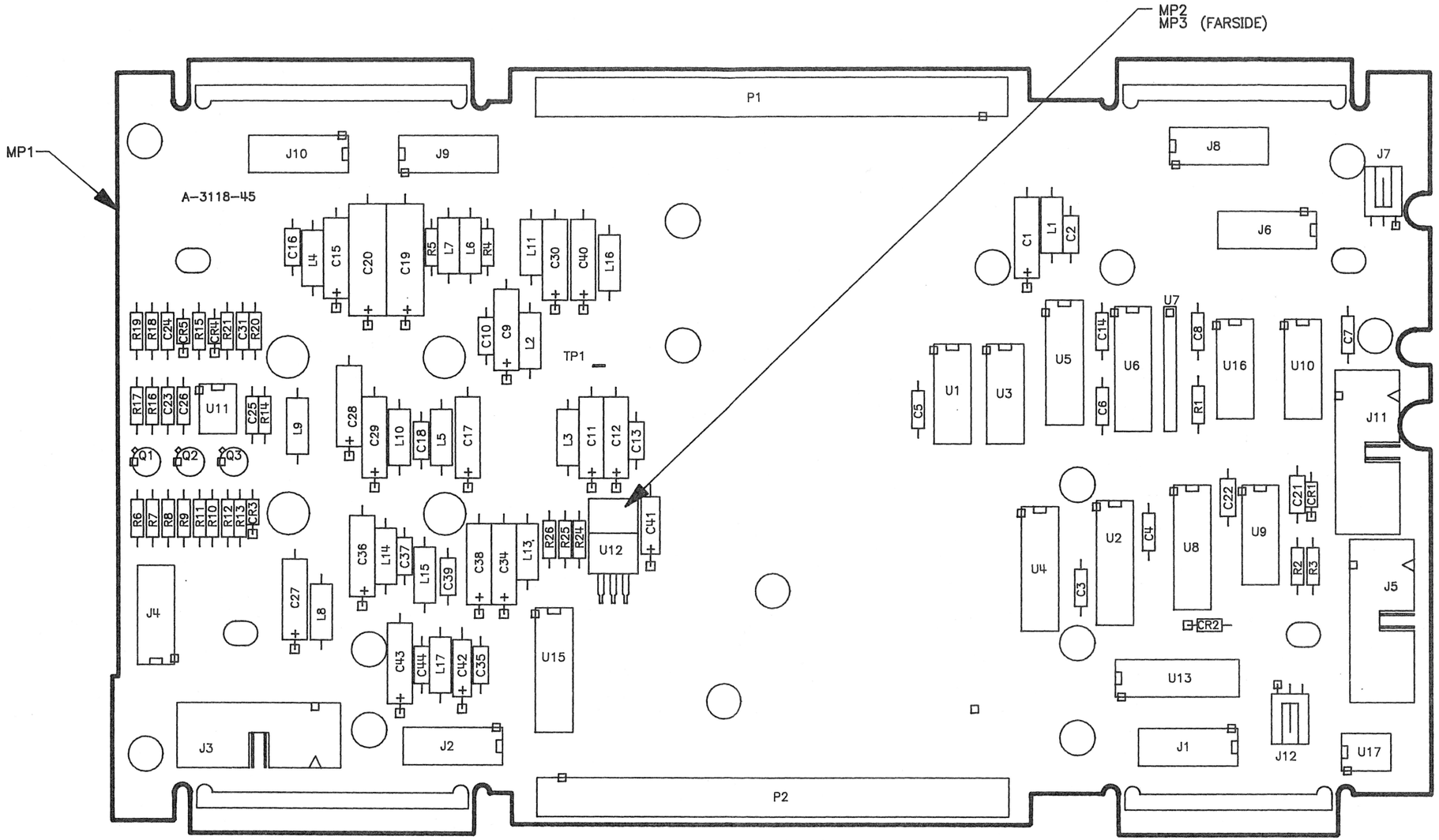
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A20	08360–60223	1	BD AY–RF INTERFC	28480	08360–60223
A20C1	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X9015B2–DYS
A20C2	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C3	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C4	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C5	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C6	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C7	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C8	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C9	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A20C10	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C11	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A20C12	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A20C13	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C14	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C15	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X9015B2–DYS
A20C16	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C17	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A20C18	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C19	0180–2610	1	CAP–FXD 10uF ±10% 75 V TA	04200	150D106X9075R2
A20C20	0180–2610	1	CAP–FXD 10uF ±10% 75 V TA	04200	150D106X9075R2
A20C21	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C22	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C23	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C24	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C25	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C26	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C27	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A20C28	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X9015B2–DYS
A20C29	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A20C30	0180–3143	1	CAP–FXD 3.3uF ±10% 75 V TA	04200	150D335X9075B2
A20C31	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C34	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A20C35	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C36	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X9015B2–DYS
A20C37	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C38	0180–0116	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	150D685X9035B2–DYS
A20C39	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C40	0180–3143	1	CAP–FXD 3.3uF ±10% 75 V TA	04200	150D335X9075B2
A20C41	0180–0291	1	CAP–FXD 1uF ±10% 35 V TA	04200	150D105X9035A2–DYS
A20C42	0180–0291	1	CAP–FXD 1uF ±10% 35 V TA	04200	150D105X9035A2–DYS
A20C43	0180–0228	1	CAP–FXD 22uF ±10% 15 V TA	04200	150D226X9015B2–DYS
A20C44	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20CR1	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A20CR2	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A20CR3	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	

Replaceable Parts List for A20 RF Interface Assembly, Part Number 08360–60223 (2 of 3)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A20CR4	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A20CR5	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A20J1	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J2	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J3	1251–8473	1	CONN–POST TYPE .100–PIN–SPCG 20–CONT	04726	2520–5002UB
A20J4	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J5	1251–8473	1	CONN–POST TYPE .100–PIN–SPCG 20–CONT	04726	2520–5002UB
A20J6	1200–0483	1	SOCKET–IC–DIP 14–CONT DIP–SLDR	05518	514–AG11D
A20J7	1252–1882	1	CONN–POST TYPE .100–PIN–SPCG 3–CONT	02946	78208–103
A20J8	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J9	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J10	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J11	1251–8473	1	CONN–POST TYPE .100–PIN–SPCG 20–CONT	04726	2520–5002UB
A20J12	1252–1882	1	CONN–POST TYPE .100–PIN–SPCG 3–CONT	02946	78208–103
A20L1	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L2	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L3	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L4	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L5	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L6	9100–2559	1	INDUCTOR RF–CH–MLD 56UH ±10%	03273	
A20L7	9100–2559	1	INDUCTOR RF–CH–MLD 56UH ±10%	03273	
A20L8	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L9	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L10	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L11	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L13	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L14	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L15	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L16	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L17	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20MP2	0515–0430	1	SCREW–MACHINE ASSEMBLY M3 X 0.5 6MM–LG	05610	
A20MP3	0590–1095	1	THREADED INSERT–NUT M3 X 0.5 1.5–MM–LG	03981	KF2–M3–ZI
A20P1	1251–8786	1	CONN–POST TYPE .100–PIN–SPCG 70–CONT	01380	1–534204–3
A20P2	1251–8786	1	CONN–POST TYPE .100–PIN–SPCG 70–CONT	01380	1–534204–3
A20Q1	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A20Q2	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A20Q3	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A20R1	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R2	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R3	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R4	0698–8812	1	RESISTOR 1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R5	0698–8812	1	RESISTOR 1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R6	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R7	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R8	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A20 RF Interface Assembly, Part Number 08360–60223 (3 of 3)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A20R9	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R10	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R11	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R12	0698–0085	1	RESISTOR 2.61K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R13	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R14	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R15	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R16	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R17	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R18	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A20R19	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A20R20	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R21	0698–3449	1	RESISTOR 28.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R24	0698–6782	1	RESISTOR 250 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A20R25	0698–6344	1	RESISTOR 900 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A20R26	0757–0395	1	RESISTOR 56.2 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A20U1	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A20U2	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U3	1820–3146	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC175N
A20U4	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U5	1858–0069	1	TRANSISTOR ARRAY 18–LEAD PLSTC DIP	13307	ULN–2803A
A20U6	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A20U7	1810–0279	1	NETWORK–RES 10–SIP 4.7K OHM X 9	05524	MSP10A01
A20U8	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U9	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A20U10	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A20U11	1826–0412	1	IC COMPARATOR PRCN DUAL 8 PIN DIP–P	03406	LM393N
A20U12	1826–0527	1	IC V RGLTR–ADJ–NEG 1.2/37V 3–TO–220 PKG	03406	LM337T
A20U13	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U15	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U16	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A20U17	1826–2095	1	ANALOG SWITCH SPST 8 –DIP–P	02883	DG419DJ



NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

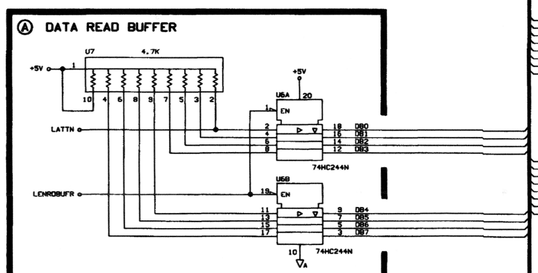
HEWLETT PACKARD

A20 RF Interface

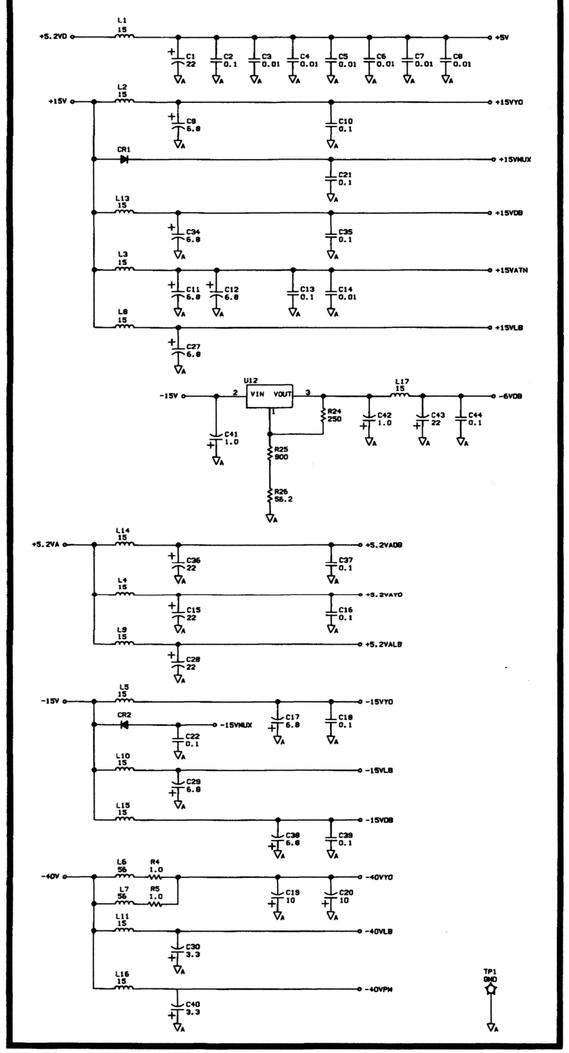
NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
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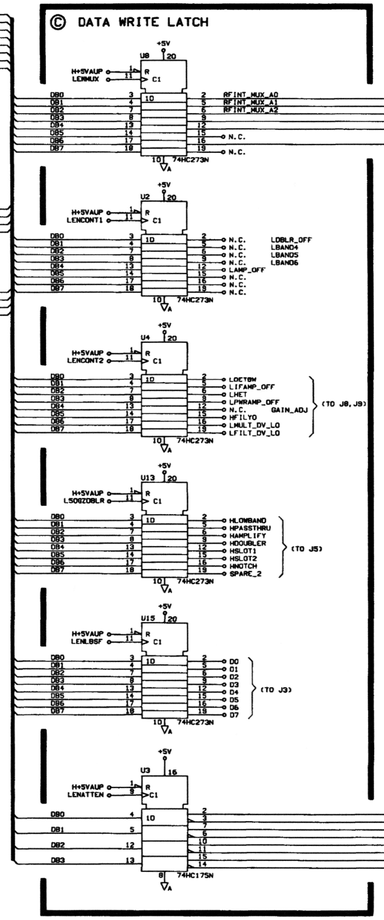
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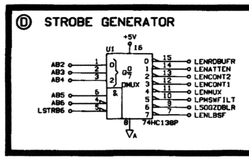
B POWER SUPPLY FILTER



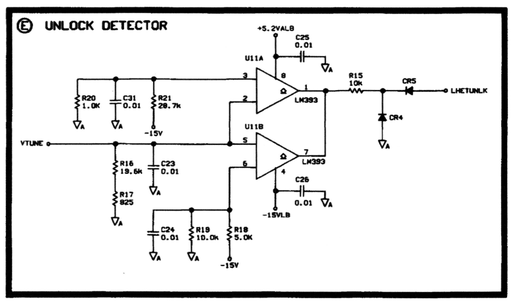
C DATA WRITE LATCH



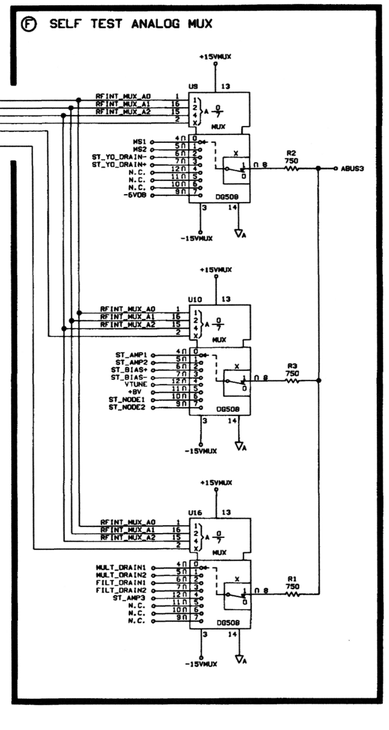
D STROBE GENERATOR



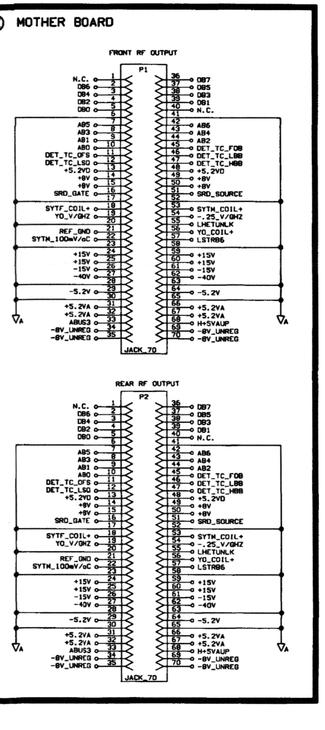
E UNLOCK DETECTOR



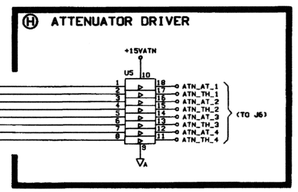
F SELF TEST ANALOG MUX



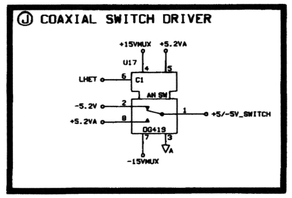
G MOTHER BOARD



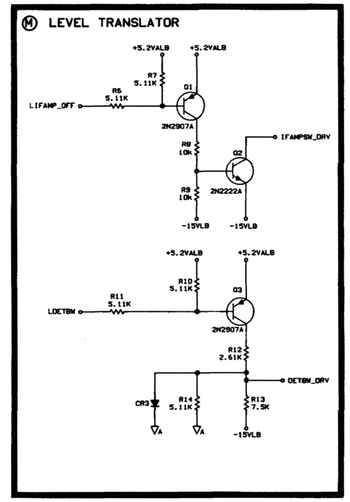
H ATTENUATOR DRIVER



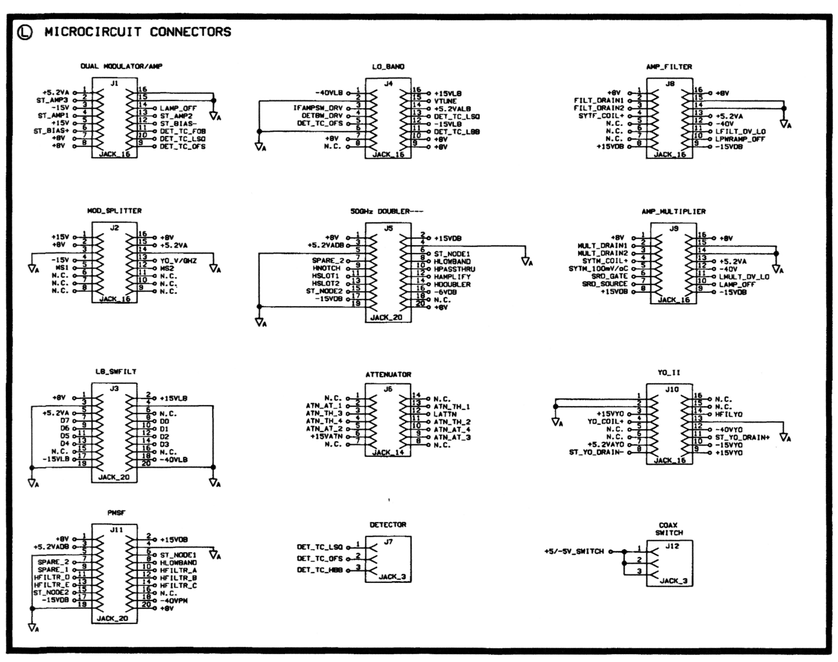
J COAXIAL SWITCH DRIVER



K LEVEL TRANSLATOR



L MICROCIRCUIT CONNECTORS



A20 RF Interface
08360-60223
(SHEET 1 of 1)

Schematic Package for 08360-60241 A20 RF Interface

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Information in this document is subject to change without notice. The configuration of some assemblies may differ from that indicated in this document.



Replaceable Parts List for A20 RF Interface Assembly, Part Number 08360–60241 (1 of 3)

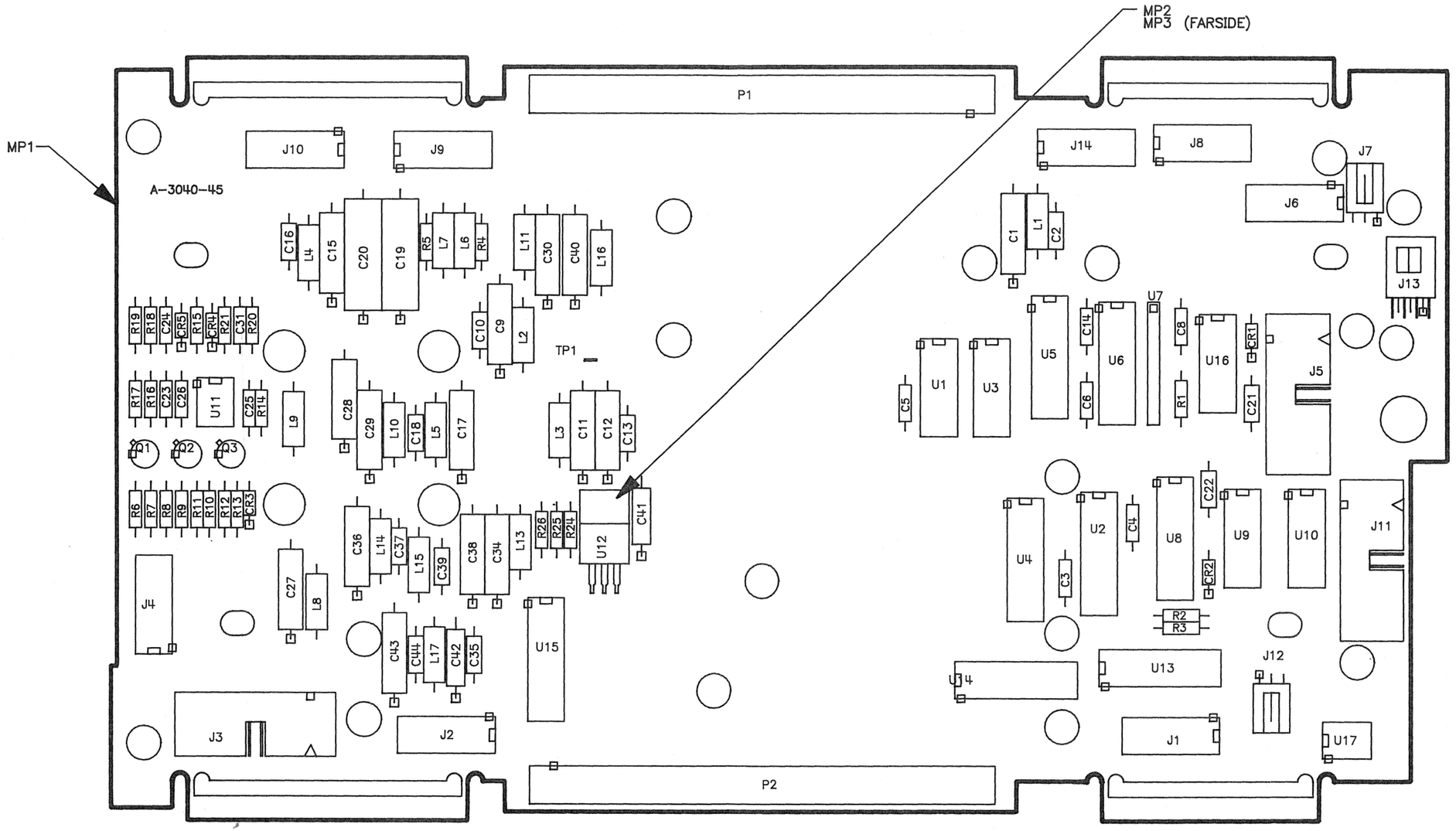
Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A20	08360–60241	1	BD AY–INTERFACE	28480	08360–60241
A20C1	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A20C2	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C3	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C4	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C5	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C6	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C8	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C9	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C10	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C11	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C12	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C13	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C14	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C15	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A20C16	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C17	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C18	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C19	0180–2610	1	CAP–FXD 10uF ±10% 75 V TA	04200	150D106X9075R2
A20C20	0180–2610	1	CAP–FXD 10uF ±10% 75 V TA	04200	150D106X9075R2
A20C21	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C22	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C23	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C24	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C25	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C26	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C27	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C28	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A20C29	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C30	0180–3143	1	CAP–FXD 3.3uF ±10% 75 V TA	04200	150D335X9075B2
A20C31	0160–4832	1	CAP–FXD 0.01uF ±10% 100 V CER X7R	02010	SA101C103KAAH
A20C34	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C35	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C36	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A20C37	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C38	0180–4132	1	CAP–FXD 6.8uF ±10% 35 V TA	04200	173D685X9035X
A20C39	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20C40	0180–3143	1	CAP–FXD 3.3uF ±10% 75 V TA	04200	150D335X9075B2
A20C41	0180–4129	1	CAP–FXD 1uF ±10% 35 V TA	04200	173D105X9035V
A20C42	0180–4129	1	CAP–FXD 1uF ±10% 35 V TA	04200	173D105X9035V
A20C43	0180–4134	1	CAP–FXD 22uF ±10% 15 V TA	04200	173D226X9015X
A20C44	0160–4835	1	CAP–FXD 0.1uF ±10% 50 V CER X7R	02010	SA105C104KAAH
A20CR1	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A20CR2	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A20CR3	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A20CR4	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	

Replaceable Parts List for A20 RF Interface Assembly, Part Number 08360–60241 (2 of 3)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A20CR5	1901–1098	1	DIODE–SWITCHING 1N4150 50V 200MA 4NS	04486	
A20J1	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J2	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J3	1251–8473	1	CONN–POST TYPE .100–PIN–SPCG 20–CONT	04726	2520–5002UB
A20J4	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J5	1251–8473	1	CONN–POST TYPE .100–PIN–SPCG 20–CONT	04726	2520–5002UB
A20J6	1200–0483	1	SOCKET–IC–DIP 14–CONT DIP–SLDR	05518	514–AG11D
A20J7	1252–1882	1	CONN–POST TYPE .100–PIN–SPCG 3–CONT	02946	78208–103
A20J8	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J9	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J10	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20J11	1251–8473	1	CONN–POST TYPE .100–PIN–SPCG 20–CONT	04726	2520–5002UB
A20J12	1252–1882	1	CONN–POST TYPE .100–PIN–SPCG 3–CONT	02946	78208–103
A20J13	1252–0637	1	CONN–POST TYPE .100–PIN–SPCG 6–CONT	01380	103166–1
A20J14	1200–0482	1	SOCKET–IC–DIP 16–CONT DIP DIP–SLDR	05518	516–AG11D
A20L1	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L2	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L3	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L4	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L5	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L6	9100–2559	1	INDUCTOR RF–CH–MLD 56UH ±10%	03273	
A20L7	9100–2559	1	INDUCTOR RF–CH–MLD 56UH ±10%	03273	
A20L8	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L9	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L10	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L11	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L13	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L14	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L15	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L16	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20L17	9100–2552	1	INDUCTOR RF–CH–MLD 15UH ±10%	03273	17S152K
A20MP2	0515–0430	1	SCREW–MACHINE ASSEMBLY M3 X 0.5 6MM–LG	05610	
A20MP3	0590–1095	1	THREADED INSERT–NUT M3 X 0.5 1.5–MM–LG	03981	KF2–M3–ZI
A20P1	1251–8786	1	CONN–POST TYPE .100–PIN–SPCG 70–CONT	01380	1–534204–3
A20P2	1251–8786	1	CONN–POST TYPE .100–PIN–SPCG 70–CONT	01380	1–534204–3
A20Q1	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A20Q2	1854–0477	1	TRANSISTOR NPN 2N2222A SI TO–18 PD=500MW	02037	2N2222A
A20Q3	1853–0281	1	TRANSISTOR PNP 2N2907A SI TO–18 PD=400MW	02037	2N2907A
A20R1	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R2	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R3	0757–0420	1	RESISTOR 750 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R4	0698–8812	1	RESISTOR 1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R5	0698–8812	1	RESISTOR 1 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R6	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R7	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1

Replaceable Parts List for A20 RF Interface Assembly, Part Number 08360–60241 (3 of 3)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A20R8	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R9	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R10	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R11	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R12	0698–0085	1	RESISTOR 2.61K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R13	0757–0440	1	RESISTOR 7.5K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R14	0757–0438	1	RESISTOR 5.11K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R15	0757–0442	1	RESISTOR 10K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R16	0698–3157	1	RESISTOR 19.6K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R17	0757–0421	1	RESISTOR 825 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R18	0698–6320	1	RESISTOR 5K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A20R19	0698–6360	1	RESISTOR 10K ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A20R20	0757–0280	1	RESISTOR 1K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R21	0698–3449	1	RESISTOR 28.7K ±1% .125W TF TC=0±100	05524	CMF–55–1
A20R24	0698–6782	1	RESISTOR 250 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A20R25	0698–6344	1	RESISTOR 900 ±0.1% .125W TF TC=0±25	05524	CMF–55–1, T–9
A20R26	0757–0395	1	RESISTOR 56.2 ±1% .125W TF TC=0±100	05524	CMF–55–1
A20TP1	1460–2201	1	SPRING RADIAL TEST POINT		
A20U1	1820–3079	1	IC DCDR CMOS/HC BIN 3–TO–8–LINE	02037	MC74HC138N
A20U2	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U3	1820–3146	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC175N
A20U4	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U5	1858–0069	1	TRANSISTOR ARRAY 18–LEAD PLSTC DIP	13307	ULN–2803A
A20U6	1820–3297	1	IC DRVR CMOS/HC BUS OCTL	02037	MC74HC244N
A20U7	1810–0279	1	NETWORK–RES 10–SIP 4.7K OHM X 9	05524	MSP10A01
A20U8	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U9	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A20U10	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A20U11	1826–0412	1	IC COMPARATOR PRCN DUAL 8 PIN DIP–P	03406	LM393N
A20U12	1826–0527	1	IC V RGLTR–ADJ–NEG 1.2/37V 3–TO–220 PKG	03406	LM337T
A20U13	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U14	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U15	1820–3399	1	IC FF CMOS/HC D–TYPE POS–EDGE–TRIG COM	02037	MC74HC273N
A20U16	1826–1021	1	ANALOG MULTIPLEXER CHNL 16 –DIP–P	02883	DG508ACJ
A20U17	1826–2095	1	ANALOG SWITCH SPST 8 –DIP–P	02883	DG419DJ



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SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

HEWLETT PACKARD

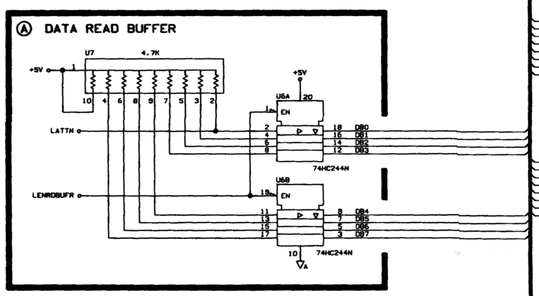
A20 RF Interface

08360-60241

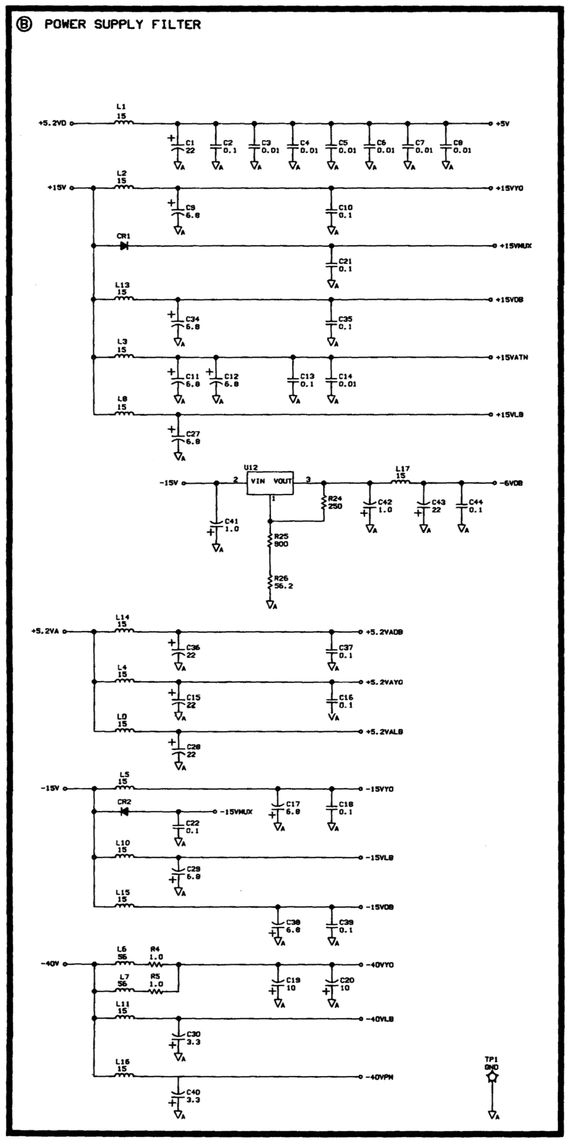
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2. ALL CAPACITOR VALUES ARE IN MICROFARADS.
3. ALL INDUCTOR VALUES ARE IN MICROHENRIES.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
C44	C32,33
CR5	
J14	
L17	L12
P2	
Q3	
R26	R22,23
TP1	
U17	

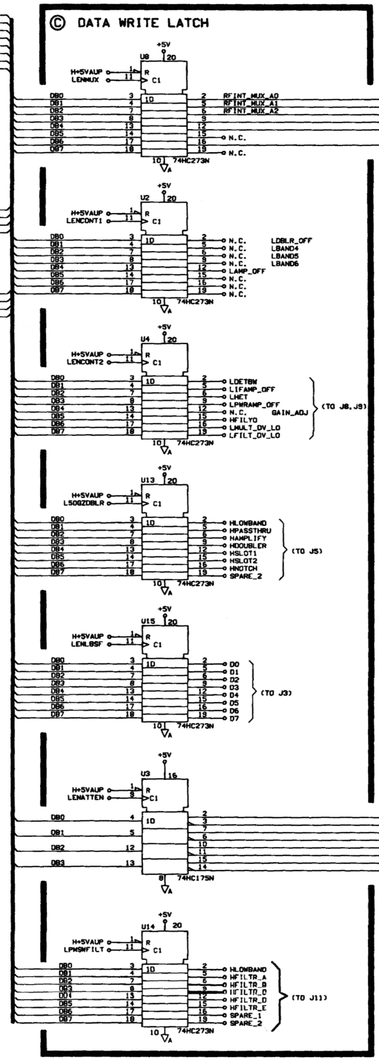
A DATA READ BUFFER



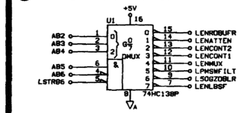
B POWER SUPPLY FILTER



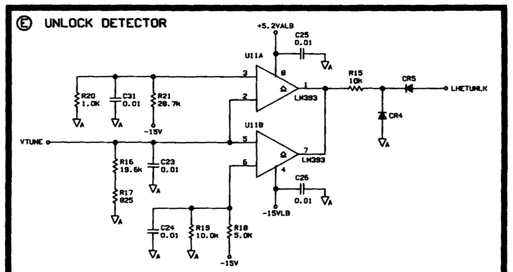
C DATA WRITE LATCH



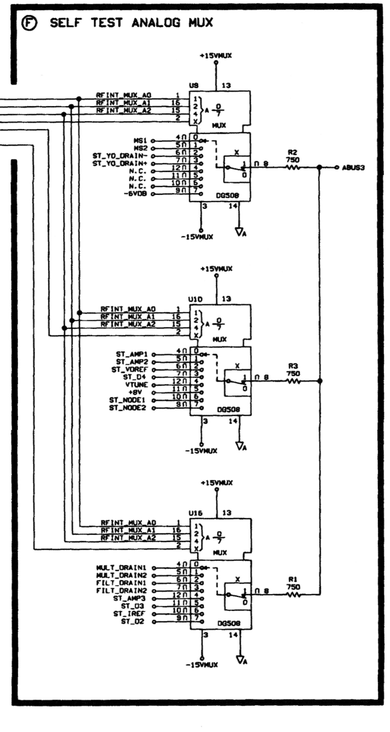
D STROBE GENERATOR



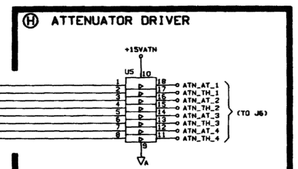
E UNLOCK DETECTOR



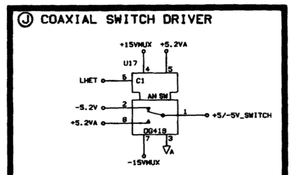
F SELF TEST ANALOG MUX



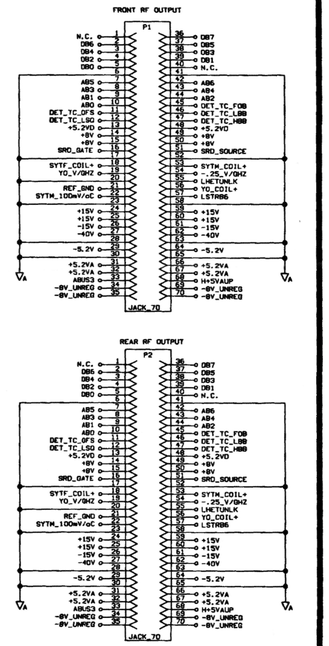
G ATTENUATOR DRIVER



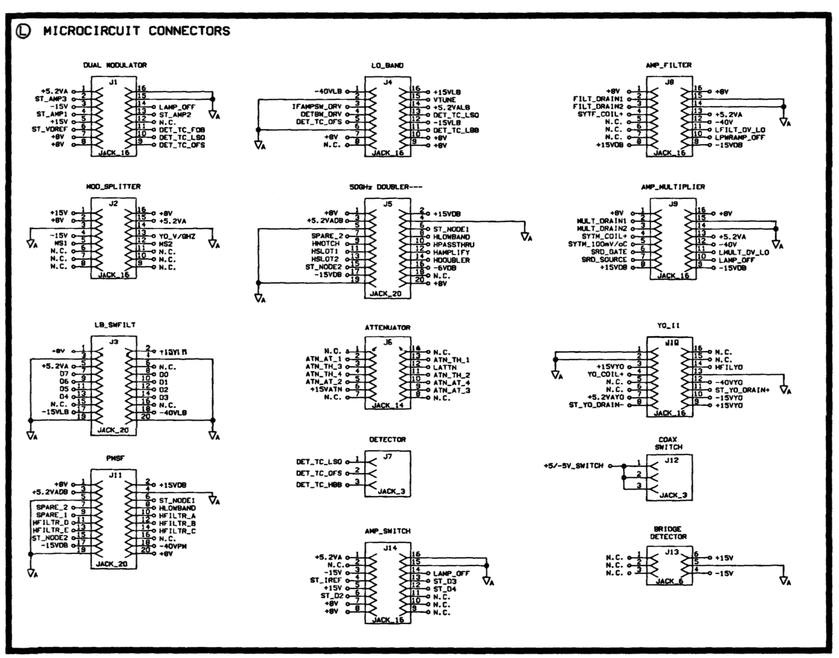
H COAXIAL SWITCH DRIVER



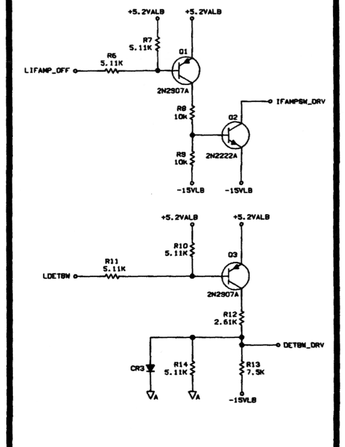
K MOTHER BOARD



L MICROCIRCUIT CONNECTORS



M LEVEL TRANSLATOR



A20 RF Interface
08360-60241
(SHEET 1 of 1)

Schematic Package for 08360-60022 A22 Motherboard

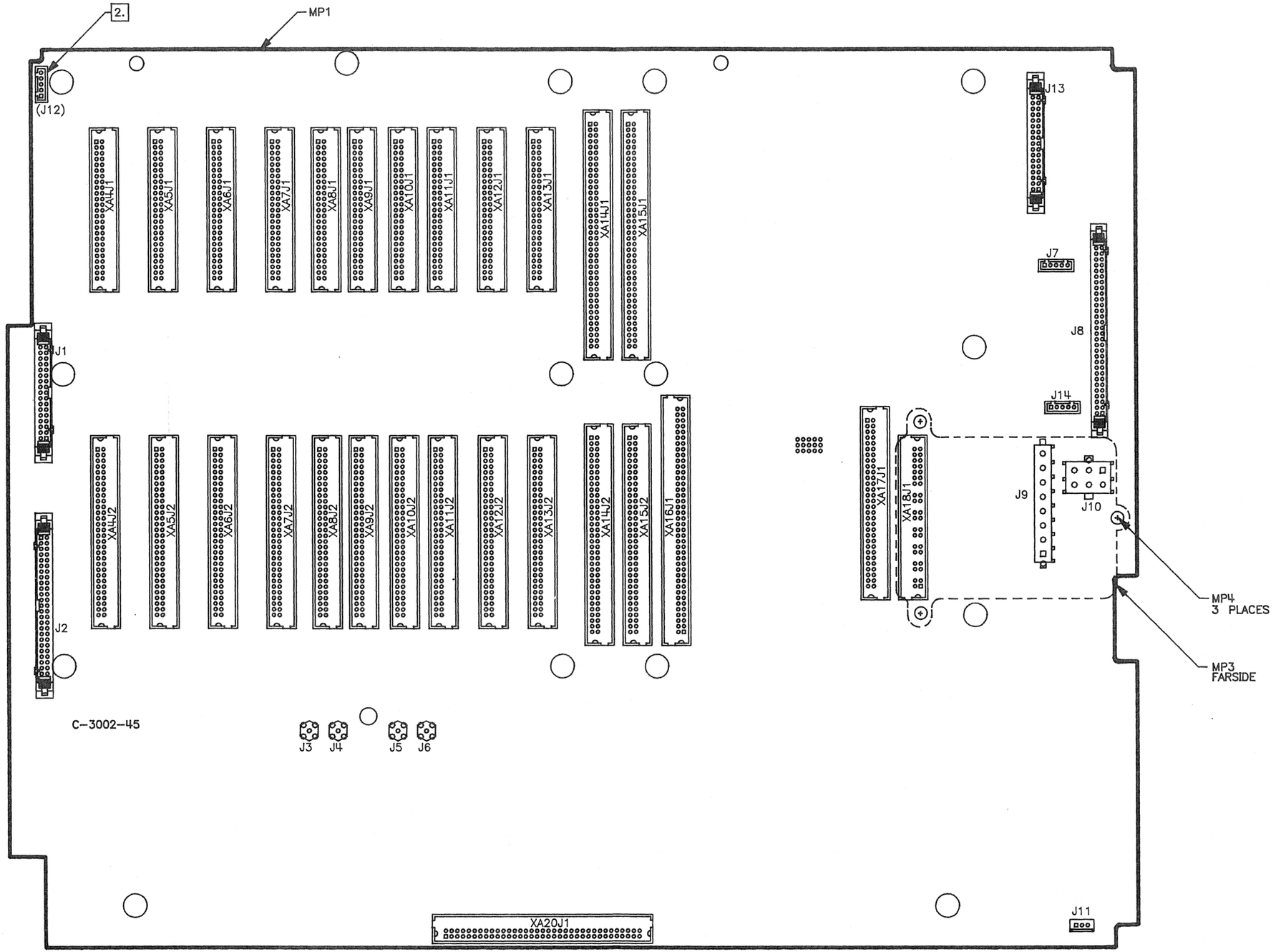
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Replaceable Parts List for A22 Motherboard Assembly, Part Number 08360–60022 (1 of 1)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A22	08360–60022	1	MOTHERBOARD ASSEMBLY	28480	08360–60022
A22J1	1252–2370	1	CONN–POST TYPE .100–PIN–SPCG 34–CONT	04726	3431–6203
A22J2	1252–0272	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	04726	3433–6203
A22J3	1250–0257	1	CONNECTOR–RF SMB M PC–W–STDFS 50–OHM	05769	051–351–0049–226
A22J4	1250–0257	1	CONNECTOR–RF SMB M PC–W–STDFS 50–OHM	05769	051–351–0049–226
A22J5	1250–0257	1	CONNECTOR–RF SMB M PC–W–STDFS 50–OHM	05769	051–351–0049–226
A22J6	1250–0257	1	CONNECTOR–RF SMB M PC–W–STDFS 50–OHM	05769	051–351–0049–226
A22J7	1252–1744	1	CONN–POST TYPE .100–PIN–SPCG 5–CONT	01380	103414–3
A22J8	1252–2828	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	04726	3372–6203
A22J9	1252–2988	1	CONN–UTIL MT–LK 8–CKT 8–CONT	01380	643410–1
A22J10	1252–2987	1	CONN–UTIL MT–LK 6–CKT 6–CONT	01380	350711–1
A22J11	1251–6932	1	CONN–POST TYPE 2.5–PIN–SPCG 3–CONT	03418	22–11–1031
A22J13	1252–2370	1	CONN–POST TYPE .100–PIN–SPCG 34–CONT	04726	3431–6203
A22J14	1252–1744	1	CONN–POST TYPE .100–PIN–SPCG 5–CONT	01380	103414–3
A22MP3	08360–40002	1	COVER – HIGH VOLTAGE		
A22MP4	0624–0518	3	SCREW–TPG 6–19 .25–IN–LG PAN–HD–TORX T15	05610	
A22XA4J1	1251–7300	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534978–8
A22XA4J2	1251–8911	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534978–9
A22XA5J1	1251–7300	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534978–8
A22XA5J2	1251–8911	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534978–9
A22XA6J1	08360–20128	1	CONN–POST TYPE MODIFIED 50–CONT		
A22XA6J2	08360–20115	1	CONN–POST TYPE MODIFIED 60–CONT		
A22XA7J1	1251–7300	7	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534978–8
A22XA7J2	1251–8911	4	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534978–9
A22XA14J1	1251–7908	1	CONN–POST TYPE .100–PIN–SPCG 80–CONT	01380	1–534978–1
A22XA14J2	1251–8787	1	CONN–POST TYPE .100–PIN–SPCG 70–CONT	01380	1–534978–5
A22XA15J1	1251–7908	1	CONN–POST TYPE .100–PIN–SPCG 80–CONT	01380	1–534978–1
A22XA15J2	1251–8787	1	CONN–POST TYPE .100–PIN–SPCG 70–CONT	01380	1–534978–5
A22XA16J1	1251–7908	1	CONN–POST TYPE .100–PIN–SPCG 80–CONT	01380	1–534978–1
A22XA17J1	1251–8911	4	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534978–9
A22XA18J1	1252–2735	1	CONN–POST TYPE .100–PIN–SPCG 38–CONT	01380	535526–1
A22XA20J1	1251–8787	1	CONN–POST TYPE .100–PIN–SPCG 70–CONT	01380	1–534978–5



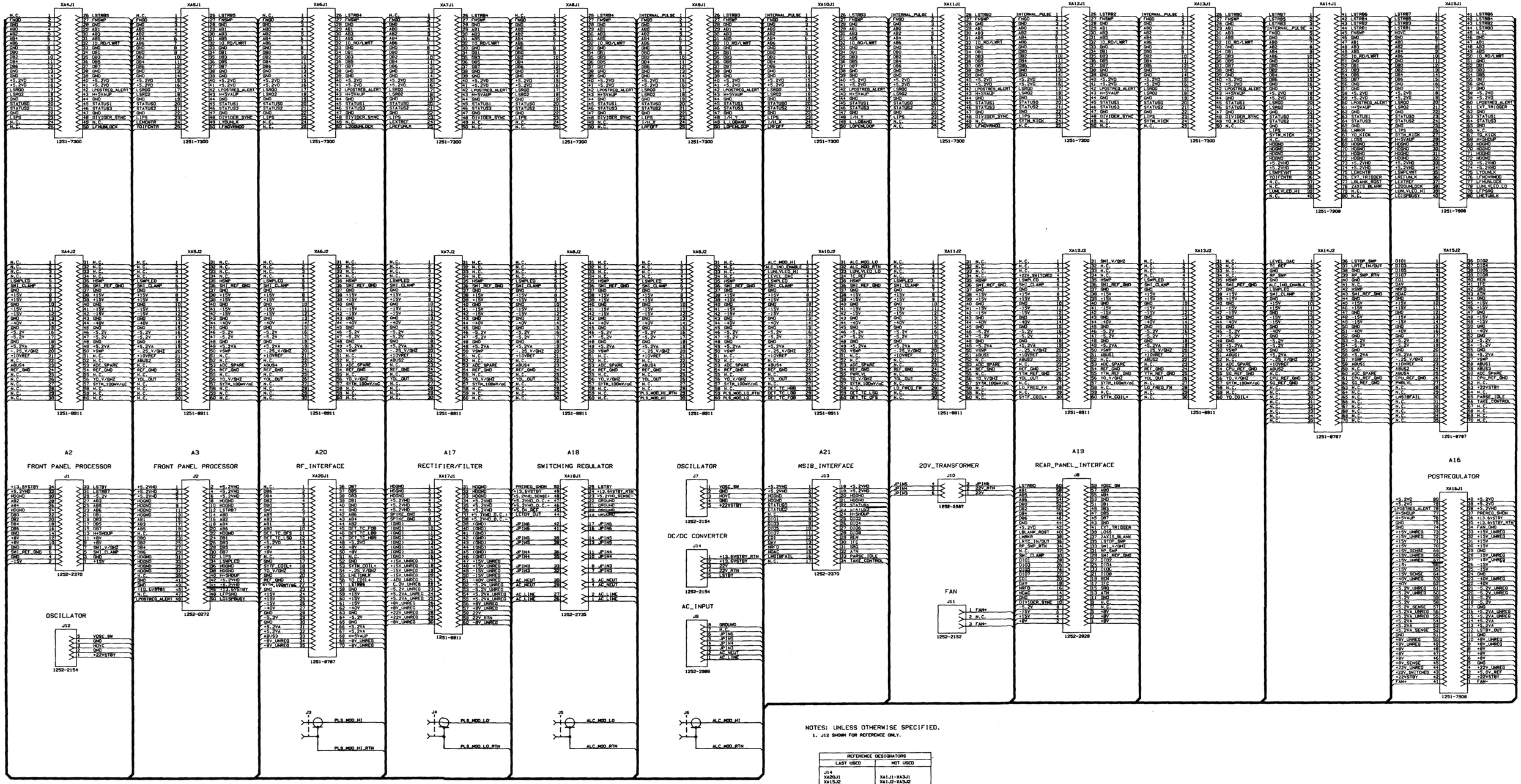
NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

2. SHOWN FOR REFERENCE ONLY, DO NOT LOAD J12, FLEX HOLES FOR SPECIAL HANDLING

HEWLETT PACKARD

A22 Motherboard

08360-60022



NOTES: UNLESS OTHERWISE SPECIFIED.
1. J12 SHOWN FOR REFERENCE ONLY.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
J14 XA20J1 XA15J2	XA1J1-XA3J1 XA1J2-XA3J2

A22 Motherboard
08360-60022
(SHEET 1 of 1)

Schematic Package for 08360-60196 A22 Motherboard

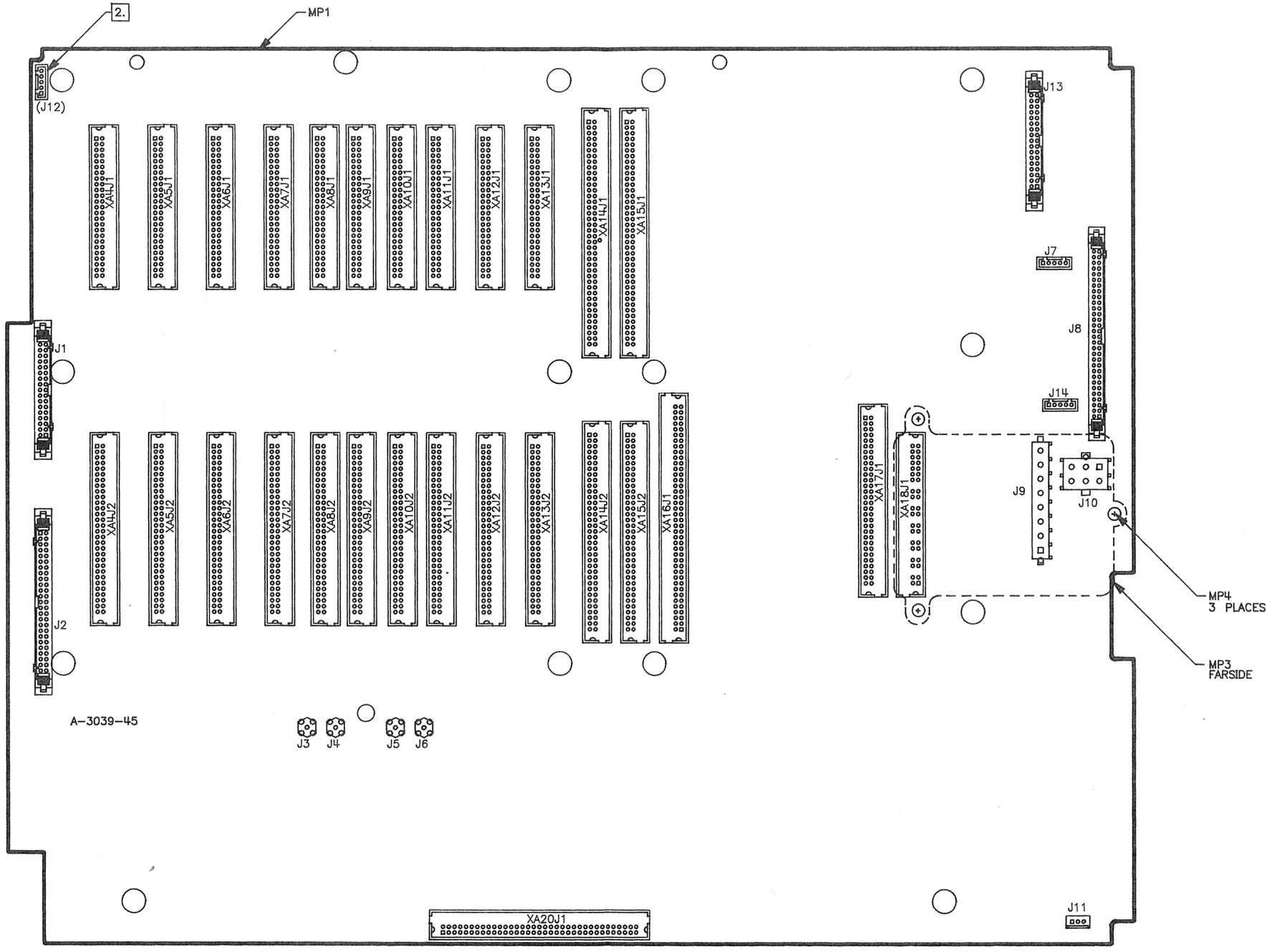
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Replaceable Parts List for A22 Motherboard Assembly, Part Number 08360–60196 (1 of 1)

Reference Designation	HP Part Number	Qty	Description	Mfr Code	Mfr Part Number
A22	08360–60196	1	BOARD AY–MOTHER	28480	08360–60196
A22J1	1252–2370	1	CONN–POST TYPE .100–PIN–SPCG 34–CONT	04726	3431–6203
A22J2	1252–0272	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	04726	3433–6203
A22J3	1250–0257	1	CONNECTOR–RF SMB M PC–W–STDFS 50–OHM	05769	051–351–0049–226
A22J4	1250–0257	1	CONNECTOR–RF SMB M PC–W–STDFS 50–OHM	05769	051–351–0049–226
A22J5	1250–0257	1	CONNECTOR–RF SMB M PC–W–STDFS 50–OHM	05769	051–351–0049–226
A22J6	1250–0257	1	CONNECTOR–RF SMB M PC–W–STDFS 50–OHM	05769	051–351–0049–226
A22J7	1252–1744	1	CONN–POST TYPE .100–PIN–SPCG 5–CONT	01380	103414–3
A22J8	1252–2828	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	04726	3372–6203
A22J9	1252–2988	1	CONN–UTIL MT–LK 8–CKT 8–CONT	01380	643410–1
A22J10	1252–2987	1	CONN–UTIL MT–LK 6–CKT 6–CONT	01380	350711–1
A22J11	1251–6932	1	CONN–POST TYPE 2.5–PIN–SPCG 3–CONT	03418	22–11–1031
A22J13	1252–2370	1	CONN–POST TYPE .100–PIN–SPCG 34–CONT	04726	3431–6203
A22J14	1252–1744	1	CONN–POST TYPE .100–PIN–SPCG 5–CONT	01380	103414–3
A22MP3	08360–40002	1	COVER – HIGH VOLTAGE		
A22MP4	0624–0518	3	SCREW–TPG 6–19 .25–IN–LG PAN–HD–TORX T15	05610	
A22XA4J1	1251–7300	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534978–8
A22XA4J2	1251–8911	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534978–9
A22XA5J1	1251–7300	1	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534978–8
A22XA5J2	1251–8911	1	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534978–9
A22XA6J1	08360–20128	1	CONN–POST TYPE MODIFIED 50–CONT		
A22XA6J2	08360–20115	1	CONN–POST TYPE MODIFIED 60–CONT		
A22XA7J1	1251–7300	7	CONN–POST TYPE .100–PIN–SPCG 50–CONT	01380	534978–8
A22XA7J2	1251–8911	4	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534978–9
A22XA14J1	1251–7908	1	CONN–POST TYPE .100–PIN–SPCG 80–CONT	01380	1–534978–1
A22XA14J2	1251–8787	1	CONN–POST TYPE .100–PIN–SPCG 70–CONT	01380	1–534978–5
A22XA15J1	1251–7908	1	CONN–POST TYPE .100–PIN–SPCG 80–CONT	01380	1–534978–1
A22XA15J2	1251–8787	1	CONN–POST TYPE .100–PIN–SPCG 70–CONT	01380	1–534978–5
A22XA16J1	1251–7908	1	CONN–POST TYPE .100–PIN–SPCG 80–CONT	01380	1–534978–1
A22XA17J1	1251–8911	4	CONN–POST TYPE .100–PIN–SPCG 60–CONT	01380	534978–9
A22XA18J1	1252–2735	1	CONN–POST TYPE .100–PIN–SPCG 38–CONT	01380	535526–1
A22XA20J1	1251–8787	1	CONN–POST TYPE .100–PIN–SPCG 70–CONT	01380	1–534978–5



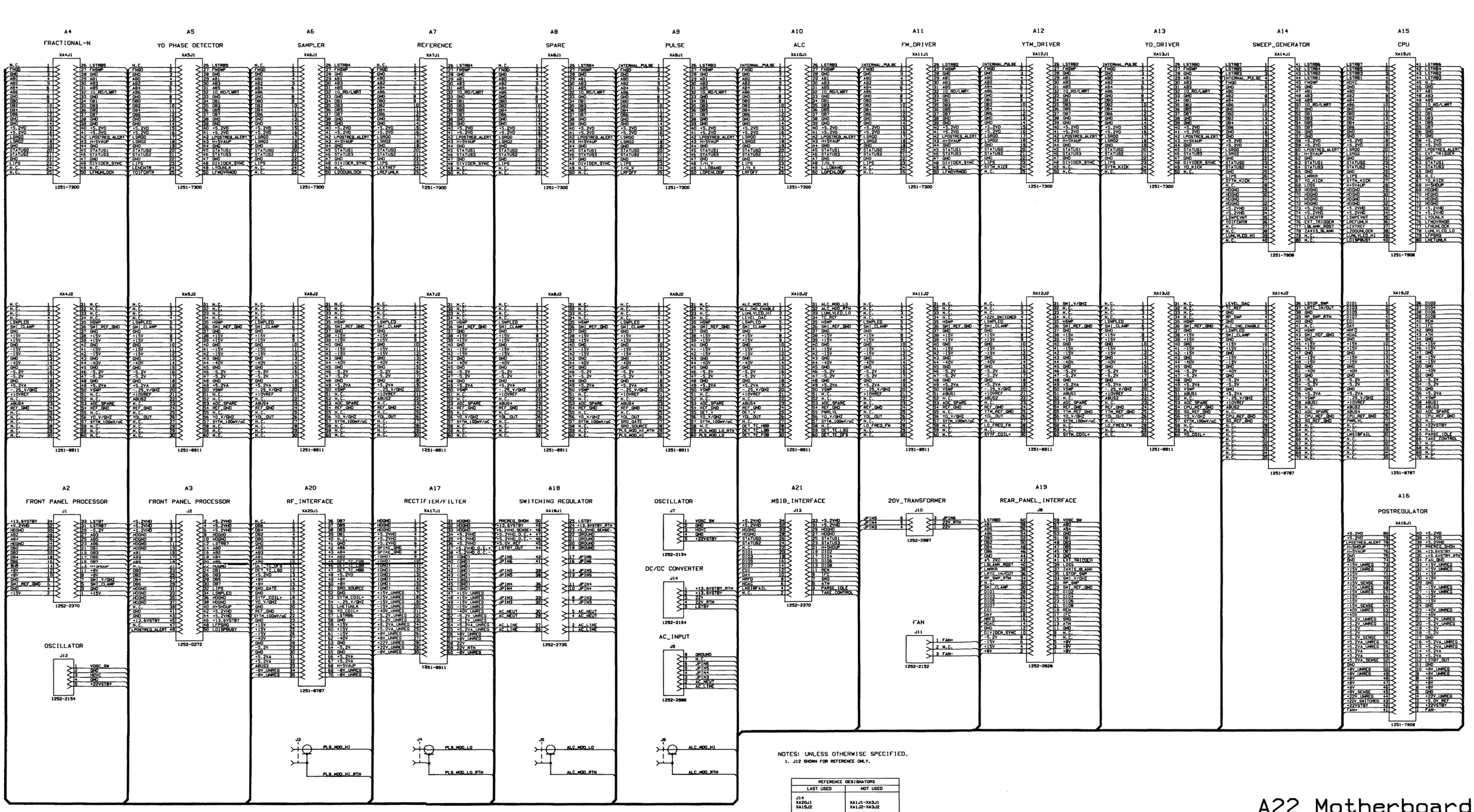
NOTES: UNLESS OTHERWISE SPECIFIED
1. WORKMANSHIP ACCEPTABILITY: ASSEMBLY PER A-5951-1582-1 (741.070C)
SOLDERING PER A-5951-1585-1 (741.070F)
REWORK PER A-5951-1586-1 (741.070G)

[2] SHOWN FOR REFERENCE ONLY, DO NOT LOAD J12, FLEX HOLES FOR SPECIAL HANDLING

HEWLETT PACKARD

A22 Motherboard

08360-60196



NOTES: UNLESS OTHERWISE SPECIFIED.
1. J12 SHOWN FOR REFERENCE ONLY.

REFERENCE DESIGNATORS	
LAST USED	NOT USED
J14 XA20J1 XA15J2	XA1J1-XA3J1 XA1J2-XA3J2

A22 Motherboard
08360-60196
(SHEET 1 of 1)