Component-Level Information Packet for HP 3458A Digital Multimeter

DO IT YOURSELF COMPONENT LEVEL REPAIRS

HISTORY OF COMPONENT LEVEL INFORMATION PACKETS (CLIPS)

In the early 1980's, Hewlett-Packard made an order of magnitude improvement in the quality and reliability of HP Digital Multimeters. These improvements resulted from an HP-wide objective of a X10 quality improvement in hardware products. HP DMMs introduced during the 1980s have very low failure rates as a result of the reliability improvements.

This dramatic improvement in failure rates caused HP to change from a component level repair strategy to an assembly level repair strategy on most new products including the HP 3458A. Assembly level repair is more cost effective.

Customers, such as the US Armed Forces, request component level documents enabling them to do their own component level repairs. For this reason, HP provides Component Level Information Packets (CLIPS) on selected products including the HP 3458A. The HP 3458A CLIP contains the following documents: 1) schematics, 2) component locators and 3) parts lists for each printed circuit assembly.

HP 3458A REPAIR STRATEGY

The HP 3458A System DMM repair strategy is assembly replacement for less expensive assemblies and assembly exchange for more expensive assemblies. Assembly exchange requires diagnosis of failure to the assembly level and exchange of the failed assembly for a rebuilt assembly. HP does not support HP Repair Centers or HP customers in doing HP 3458A component level repairs.

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HP3458A COMPONENT LEVEL INFORMATION PACKAGE

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HP 3458A A9 ASSEMBLY (03458-66509) REPLACEMENT PARTS

Reference Designation	HP Part Number	CD		Part Description	Mfr. Code	Mfr. Part Number
A9	03458-66509	6	1	PC ASSEMBLY-DC REFERENCE	28480	03458-66509
A9C411	0160-4833	5	1	CAPACITOR-FXD .022UF +-10% 100VDC CER	04222	SA201C223KAAH
A9C412	0160-4835	7	1	CAPACITOR-FXD .1UF +-10% 50VDC CER	04222	SA115C104KAAH
A9C413	0160-3847	9	1	CAPACITOR-FXD .01UF +100-0% 50VDC CER	04222	SA105C103PAAH
A9C414	0160-4835	7	1	CAPACITOR-FXD .1UF +-10% 50VDC CER	04222	SA115C104KAAH
A9CR400	1901-0040	1	1	DIODE-SWITCHING 30V 50MA 2NS DO-35	28480	1901-0040
A9CR401	1901-0743	1	1	DIODE-PWR RECT 1N4004 400V 1A DO-41	01295	1N4004
A9CVR1	03458-44102	9	1	COVER-DIODE	28480	03458-44102
A9J400-J401	1251-6041	5	2	CONNECTOR-POST TYPE .100-PIN-SPCG 5-CONT	27264	22-17-2052
A9Q401	1854-0585	8	1	TRANSISTOR NPN SI PD=12.5W FT=50MHZ	04713	MJE182
A9R411	0698-7133	3	1	RESISTOR 15K .05% .225W MF TC=0+-1.3	28480	0698-7133
A9R412	0698-8066	3		RESISTOR 1K .01% .15W MF TC=0+-1.3	28480	0698-8066
A9R413	0699-0311	7	2	RESISTOR 74.25K .1% .1W TF TC=0+-10	28480	0699-0311
A9R414	0699-2452	6	1	RESISTOR 111 .1% .3W MF TC=0+-1.3	28480	0699-2452
A9R415	0699-0311	7		RESISTOR 74.25K .1% .1W TF TC=0+-10	28480	0699-0311
A9R416	0757-0442	9		RESISTOR 10K 1% .125W TF TC=0+-100	24546	CT4-1/8-T0-1002-F
A9R417	0757-0472	5	1	RESISTOR 200K 1% .125W TF TC=0+-100	24546	CT4-1/8-T0-2003-F
A9R418	0698-4123	5	. 1	RESISTOR 499 1% .125W TF TC=0+-100	24546	CT4-1/8-T0-499R-F
A9R419	0698-3492	9	1	RESISTOR 2.67K 1% .125W TF TC=0+-100	24546	CT4-1/8-T0-2671-F
A9R420	0698-8827	4	. 1	RESISTOR 1M 1% .125W TF TC=0+-100	28480	0698-8827
A9R421	0757-0465	6	1	RESISTOR 100K 1% .125W TF TC=0+-100	24546	CT4-1/8-T0-1003-F
A9U401 A9U402	1826-1860 1826-1409	9	1	VOLTAGE REFERENCE-FIXED 7V TO-99-PKG IC OP AMP LOW-NOISE DUAL 8-DIP-P PKG	28480 28480	1826-1860 1826-1409
				PC ASSEMBLY MOUNTING HARDWARE		
	0515-1440	1	2	SCREW-MACHINE M3 X0.5 20MM-LG TORX T10	28480	0515-1410
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Mfr. Code	Manufacturer's Name	Manufacturer's Address	Zip Code
01295 04222 04713 24546 27264 28480	TEXAS INSTRUMENTS INC AVX CORP MOTOROLA INC CORNING GLASS WORKS MOLEX INC HEWLETT PACKARD COMPANY - CORPORATE	DALLAS TX US GREAT NECK NY US ROSELLE IL US CORNING NY US LISLE IL US PALO ALTO CA US	11021 60195 14830 60532

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