

Supersedes:

None

HP MODEL 8565A AND 8569B SPECTRUM-ANALYZERS

All Serials

A16 SWEEP GENERATOR BOARD REPLACEMENT

The 8565A and 8569B are similar instruments with some PC boards in common. Their A16 Sweep Generator Board Assemblies are slightly different, but have recently been combined into one board assembly. The 08565-60218 and the 08569-60067 are both superseded by the new 08569-60122, which can be ordered as Sweep Generator Board Kit, HP Part Number 5061-9058.

There are two portions of circuitry that are utilized differently, depending on whether the board is used in an 8565A or an 8569B. One important difference involves jumper wire W1 in the Auto Sweep Time Limit circuitry. The board comes with the jumper wire in place and is a drop-in replacement in an 8565A. The jumper adds a transistor and two resistors to the circuitry. This limits the sweep time in the 8565A to 2 msec for the lower frequency spans. The jumper must be removed to use the board in an 8569B. Removing the jumper limits the sweep time to 7.3 msec to meet the digital storage requirements of the 8569B.

Another difference is in the 1/N Sweep Attenuator circuitry. The 8569B uses two additional frequency bands (9 and 10). When the new Sweep Generator Board is used in an 8565A, the 1/N circuitry for bands 9 and 10 does not operate. This service note includes updated schematics and an updated material list for the new A16 Sweep Generator Board. These should be used to update your Operation and Service Manual.

The +10V adjustment pot has been removed from the board. The adjustment procedures for both instruments' Operation and Service Manuals must be updated as follows, to reflect this change.

8565A manual. Paragraph 5-22. Sweep Generator Adjustment, DESCRIPTION:

Delete the first sentence and change the second sentence to read "The sweep generator is adjusted..."

Delete the NOTE that begins "The +10V Temperature Variable Supply..."

Delete step c.

8569B manual. Paragraph 5-21. Sweep Generator Adjustment, DESCRIPTION:

Delete the first sentence and change the second sentence to read "The sweep generator is adjusted..."

Delete the NOTE that begins "The +10V Temperature Variable Supply..."

Delete step 3.

D/OF/WO

2/85-53/MLG


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FOR MORE INFORMATION, CALL YOUR LOCAL HP SALES OR SERVICE OFFICE or East (201) 265-5000 • Midwest (312) 255-9800 • South (404) 955-1500 • West (213) 970-7500 or (415) 968-9200 OR WRITE, Hewlett-Packard, 1820 Embarcadero, Palo Alto, California 94303. IN EUROPE, CALL YOUR LOCAL HP SALES OR SERVICE OFFICE OR WRITE, Hewlett-Packard S.A., 7, rue du Bois-du-Lan, P.O. Box. CH-1217 Meyrin 2-Geneva, Switzerland. IN JAPAN, Yokogawa-Hewlett-Packard Ltd., 1-27-15, Yabe Sagami-hara City, Kanagawa Prefecture, Japan 229.

A16 SWEEP GENERATOR BOARD ASSEMBLY, REPLACEABLE PARTS (HP PART NUMBER 5061-9058) (1 OF 4)

Reference Designation	HP Part Number	C D	Qty	Description	Mfr Code	Mfr Part Number
A16	5061-9058	3	1	SWEEP GENERATOR REPLACEMENT KIT	28480	5061-9058
A16C1				NOT ASSIGNED		
A16C2	0160-3456	6	4	CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3456
A16C3	0160-3456	6		CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3456
A16C4	0160-2262	0	1	CAPACITOR-FXD 16PF +-5% 500VDC CER 0+-30	28480	0160-2262
A16C5	0160-3466	8	3	CAPACITOR-FXD 100PF +-10% 1KVDC CER	28480	0160-3466
A16C6	0160-2150	5	1	CAPACITOR-FXD 33PF +-5% 300VDC MICA	28480	0160-2150
A16C7	0160-3466	8		CAPACITOR-FXD 100PF +-10% 1KVDC CER	28480	0160-3466
A16C8	0180-0197	8	5	CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56209	150D225X9020A2
A16C9				NOT ASSIGNED		
A16C10	0160-3456	6		CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3456
A16C11	0180-1735	2	1	CAPACITOR-FXD .22UF+-10% 35VDC TA	56289	150D224X9035A2
A16C12	0160-3009	5	1	CAPACITOR-FXD 902PF +-1% 100VDC MICA	28480	0160-3009
A16C13	0160-3402	2	2	CAPACITOR-FXD 1UF +-5% 50VDC MET-POLYC	28480	0160-3402
A16C14	0180-0197	8		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56209	150D225X9020A2
A16C15	0160-0166	9	1	CAPACITOR-FXD .068UF +-10% 200VDC POLYE	28480	0160-0166
A16C16	0160-2055	9	3	CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-2055
A16C17	0160-4084	8	3	CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A16C18	0160-2055	9		CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-2055
A16C19	0160-2055	9		CAPACITOR-FXD .01UF +-20% 100VDC CER	28480	0160-2055
A16C20	0160-3466	8		CAPACITOR-FXD 100PF +-10% 1KVDC CER	28480	0160-3466
A16C21	0160-4084	8		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A16C22	0160-4084	8		CAPACITOR-FXD .1UF +-20% 50VDC CER	28480	0160-4084
A16C23	0160-3456	6		CAPACITOR-FXD 1000PF +-10% 1KVDC CER	28480	0160-3456
A16C24	0180-0197	8		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56209	150D225X9020A2
A16C25	0180-0197	8		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56289	150D225X9020A2
A16C26	0180-0197	8		CAPACITOR-FXD 2.2UF+-10% 20VDC TA	56209	150D225X9020A2
A16C27	0160-3670	6	1	CAPACITOR-FXD .1UF +-20% 200VDC CER	28480	0160-3670
A16C28	0160-3402	2		CAPACITOR-FXD 1UF +-5% 50VDC MET-POLYC	28480	0160-3402
A16CR1	1901-0050	3	34	DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR2	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR3	1901-0376	6	1	DIODE-GEN PRP 35V 50MA DO-35	28480	1901-0376
A16CR4	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR5	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR6				NOT ASSIGNED		
A16CR7	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR8	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR9	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR10	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR11	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR12	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR13	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR14	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR15	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR16	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR17	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR18	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR19	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR20	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR21	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR22	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR23	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR24	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR25	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR26	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR27	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR28	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR29	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR30	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR31	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR32	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR33	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR34	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR35	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16CR36	1901-0050	3		DIODE-SWITCHING 80V 200MA 2NS DO-35	28480	1901-0050
A16L1	9140-0210	1	3	INDUCTOR RF-CH-MLD 100UH 5% .166DX.385LC	28480	9140-0210
A16L2	9140-0210	1		INDUCTOR RF-CH-MLD 100UH 5% .166DX.385LC	28480	9140-0210
A16L3	9140-0210	1		INDUCTOR RF-CH-MLD 100UH 5% .166DX.385LC	28480	9140-0210
A16Q1	1854-0404	0	24	TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A16Q2	1855-0417	7	1	TRANSISTOR J-FET N-CHAN D-MODE TO-18 SI	28480	1855-0417
A16Q3	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A16Q4				NOT ASSIGNED		
A16Q5	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404

See introduction to this section for ordering information
 *Indicates factory selected value

A16 SWEEP GENERATOR BOARD ASSEMBLY, REPLACEABLE PARTS (HP PART NUMBER 5061-9058) (2 OF 4)

Reference Designation	HP Part Number	C D	Qty	Description	Mfr Code	Mfr Part Number
A16Q6	1853-0201	9	3	TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	04713	2N2907A
A16Q7	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	20480	1854-0404
A16Q8	1855-0020	8	1	TRANSISTOR J-FET N-CHAN D-MODE TO-18 SI	28480	1855-0020
A16Q9	1853-0281	9		TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	04713	2N2907A
A16Q10	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A16Q11	1853-0316	1	1	TRANSISTOR-DUAL PNP PD=500MW	20480	1853-0316
A16Q12	1855-0082	2	2	TRANSISTOR J-FET P-CHAN D-MODE SI	28480	1855-0082
A16Q13	1854-0809	9	1	TRANSISTOR NPN 2N2369A SI TO-18 PD=360MW	28480	1854-0809
A16Q14	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A16Q15	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A16Q16	1855-0082	2		TRANSISTOR J-FET P-CHAN D-MODE SI	28430	1855-0082
A16Q17	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A16Q18	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A16Q19	1853-0281	9		TRANSISTOR PNP 2N2907A SI TO-18 PD=400MW	04713	2N2907A
A16Q20	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	20480	1854-0404
A16Q21	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	20480	1854-0404
A16Q22	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	20480	1854-0404
A16Q23	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	20480	1854-0404
A16Q24	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A16Q25	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A16Q26	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A16Q27	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A16Q28	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A16Q29	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A16Q30	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	28480	1854-0404
A16Q31	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	20480	1854-0404
A16Q32	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	20480	1854-0404
A16Q33	1853-0036	2	1	TRANSISTOR PNP SI PD=310MW FT=250MHZ	28480	1853-0036
A16Q34	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	20480	1854-0404
A16Q35	1854-0404	0		TRANSISTOR NPN SI TO-18 PD=360MW	20480	1854-0404
A16R1	0698-3451	0	1	RESISTOR 132K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1333-F
A16R2	0698-8848	8	1	RESISTOR 57.2K .25% .125W F TC=0+-100	20480	0698-8848
A16R3	0698-7421	2	1	RESISTOR 40K .25% .125W F TC=0+-100	19731	MF4C1/8-T0-4002-C
A16R4	0698-3194	8	1	RESISTOR 20K .25% .125W F TC=0+-50	03888	PME55-1/8-T0-2002-C
A16R5	0698-7797	5	1	RESISTOR 7.66K .25% .125W F TC=0+-100	19731	MF4C1/8-T0-7681-C
A16R6	0757-0442	9	9	RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A16R7	0757-0442	9		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A16R8						
A16R12				NOT ASSIGNED		
A16R13	0757-0442	9		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A16R14	0757-0289	2	2	RESISTOR 13.3K 1% .125W F TC=0+-100	19701	MF4C1/8-T0-1333-F
A16R15	2100-2851	9	2	RESISTOR-TRMR 2K 10% WW SIDE-ADJ 20-TRN	02660	3010P-202
A16R16	0698-3457	6	2	RESISTOR 316K 1% .125W F TC=0+-100	28480	0698-3457
A16R17	0757-0346	2	3	RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A16R18	0698-3442	9	1	RESISTOR 237 1% .125W F TC=0+-100	24546	C4-1/8-T0-237R-F
A16R19	2100-1702	7	1	RESISTOR-TRMR 100 10% WW SIDE-ADJ 20-TRN	02660	3010P-101
A16R20	0698-3156	2	3	RESISTOR 14.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1472-F
A16R21	0698-4482	9	1	RESISTOR 17.4K 1% .125W F TC=0+-100	03888	PME55-1/8-T0-1742-F
A16R22	0757-0465	6	16	RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A16R23	0757-0280	3	5	RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A16R24	0698-3156	2		RESISTOR 14.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1472-F
A16R25	2100-2851	9		RESISTOR-TRMR 2K 10% WW SIDE-ADJ 20-TRN	02660	3010P-202
A16R26	0757-0465	6		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A16R27	0757-0401	0	1	RESISTOR 100 1% .125W F TC=0+-100	24546	C4-1/8-T0-101-F
A16R28	0757-0465	6		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A16R29	0757-0123	3	2	RESISTOR 34.8K 1% .125W F TC=0+-100	28480	0757-0123
A16R30	0698-3519	1	1	RESISTOR 12.4K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1242-F
A16R31	0757-0440	7	1	RESISTOR 7.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-7501-F
A16R32	0757-0199	3	8	RESISTOR 21.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2152-F
A16R33	0757-0465	6		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A16R34	0698-3160	8	6	RESISTOR 31.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3162-F
A16R35	0757-0465	6		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A16R36	0757-0465	6		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A16R37	0757-0465	6		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A16R38	0698-3160	8		RESISTOR 31.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3162-F
A16R39	0698-7268	5	7	RESISTOR 21.5K 1% .05W F TC=0+-100	24546	C3-1/8-T0-2152-F
A16R40	0757-0465	6		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A16R41	0757-0465	6		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A16R42	0699-1023	0	1	RESISTOR 1.326K .25% .125W F TC=0+-100	20480	0699-1023
A16R43	0698-7208	9	8	RESISTOR 147K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1473-F
A16R44	0698-7288	9		RESISTOR 147K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1473-F
A16R45	0698-7288	9		RESISTOR 147K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1473-F
A16R46	0698-7288	9		RESISTOR 147K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1473-F
A16R47	0757-0461	2	3	RESISTOR 60.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6012-F
A16R48	0698-7288	9		RESISTOR 147K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1473-F

See introduction to this section for ordering information
 *Indicates factory selected value

A16 SWEEP GENERATOR BOARD ASSEMBLY, REPLACEABLE PARTS (HP PART NUMBER 5061-9058) (3 OF 4)

Reference Designation	HP Part Number	C D	Qty	Description	Mfr Code	Mfr Part Number
A16R49	0757-0465	6		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A16R50	0757-0465	6		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A16R51	0698-7288	9		RESISTOR 147K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1473-F
A16R52	0698-7288	9		RESISTOR 147K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1473-F
A16R53	0757-0461	2		RESISTOR 68.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6012-F
A16R54	0698-7288	9		RESISTOR 147K 1% .05W F TC=0+-100	24546	C3-1/8-T0-1473-F
A16R55	0757-0461	2		RESISTOR 68.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6012-F
A16R56	0698-0084	9	1	RESISTOR 2.15K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2151-F
A16R57	0757-0280	3		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A16R58	0698-3444	1	1	RESISTOR 316 1% .125W F TC=0+-100	24546	C4-1/8-T0-316R-F
A16R59	0698-5469	4	1	RESISTOR 8.645K 1% .125W F TC=0+-100	24546	C4-1/8-T0-8645R-F
A16R60	0698-8849	0	1	RESISTOR 45.3K 1% .125W F TC=0+-25	28480	0698-8849
A16R61	0698-6360	6	2	RESISTOR 10K 1% .125W F TC=0+-25	28480	0698-6360
A16R62	0757-0346	2		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A16R63	0683-3355	2	2	RESISTOR 3.3M 5% .25W FC TC=-900/+1100	01121	CB3355
A16R64	0683-3355	2		RESISTOR 3.3M 5% .25W FC TC=-900/+1100	01121	CB3355
A16R65	0757-0280	1	1	RESISTOR 9.09K 1% .125W F TC=0+-100	17701	MF4C1/8-T0-9091-F
A16R66	0698-0062	7	1	RESISTOR 5.6K 1% .125W F TC=0+-25	28480	0698-0062
A16R67	0757-0442	9		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A16R68	0757-0442	9		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A16R69				NOT ASSIGNED		
A16R70				NOT ASSIGNED		
A16R71	0757-0442	9		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A16R72	0698-3457	6		RESISTOR 316K 1% .125W F TC=0+-100	28480	0698-3457
A16R73	0683-6845	1	1	RESISTOR 680K 5% .25W FC TC=-800/+900	01121	CB6845
A16R74	2100-1973	4	1	RESISTOR-TRMR 200 10% WW TOP-ADJ 20-TRN	02660	3310P-201
A16R75	0698-3435	0	1	RESISTOR 38.3 1% .125W F TC=0+-100	24546	C4-1/8-T0-38R3-F
A16R76	0698-3160	0		RESISTOR 31.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3162-F
A16R77	0757-0442	9		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A16R78	0757-0465	6		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A16R79	0757-0465	6		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A16R80	0698-3155	1	1	RESISTOR 4.64K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4641-F
A16R81	0698-3260	9	2	RESISTOR 464K 1% .125W F TC=0+-100	28480	0698-3260
A16R82	0698-3160	8		RESISTOR 31.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3162-F
A16R83	0757-0277	0	2	RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A16R84	0757-0465	6		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A16R85	0698-3160	8		RESISTOR 31.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3162-F
A16R86	0757-0277	0		RESISTOR 3.16K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3161-F
A16R87	0757-0465	6		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A16R88	0757-0439	4	1	RESISTOR 6.01K 1% .125W F TC=0+-100	24546	C4-1/8-T0-6011-F
A16R89	0698-3159	5	1	RESISTOR 26.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2612-F
A16R90	0698-3450	9	2	RESISTOR 42.2K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4222-F
A16R91	0757-0465	6		RESISTOR 100K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1003-F
A16R92	0757-0346	2		RESISTOR 10 1% .125W F TC=0+-100	24546	C4-1/8-T0-10R0-F
A16R93	0698-3450	9		RESISTOR 42.2K 1% .125W F TC=0+-100	24546	C4-1/8-T0-4222-F
A16R94	0698-7864	7	1	RESISTOR 794 .25% .125W F TC=0+-100	17701	MF4C1/8-T0-794R-C
A16R95	0757-0199	3		RESISTOR 21.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2152-F
A16R96	0757-0209	2		RESISTOR 13.3K 1% .125W F TC=0+-100	17701	MF4C1/8-T0-1332-F
A16R97	0757-0458	7	1	RESISTOR 51.1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5112-F
A16R98	0757-0442	9		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A16R99	0757-0123	3		RESISTOR 34.8K 1% .125W F TC=0+-100	28480	0757-0123
A16R100	0757-0200	7	2	RESISTOR 5.62K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5621-F
A16R101	0698-6630	3		RESISTOR 20K 1% .125W F TC=0+-25	28480	0698-6630
A16R102	0757-0177	3	2	RESISTOR 21.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2152-F
A16R103	0698-7268	5		RESISTOR 21.5K 1% .05W F TC=0+-100	24546	C3-1/8-T0-2152-F
A16R104	0698-6630	3		RESISTOR 20K 1% .125W F TC=0+-25	28480	0698-6630
A16R105	0757-0199	3		RESISTOR 21.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2152-F
A16R106	0698-7268	5		RESISTOR 21.5K 1% .05W F TC=0+-100	24546	C3-1/8-T0-2152-F
A16R107	0698-6360	6		RESISTOR 10K 1% .125W F TC=0+-25	28480	0698-6360
A16R108	0757-0199	3		RESISTOR 21.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2152-F
A16R109	0698-7268	5		RESISTOR 21.5K 1% .05W F TC=0+-100	24546	C3-1/8-T0-2152-F
A16R110	0698-6861	6	1	RESISTOR 6.60K 1% .125W F TC=0+-25	28480	0698-6861
A16R111	0757-0199	3		RESISTOR 21.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2152-F
A16R112	0698-7268	5		RESISTOR 21.5K 1% .05W F TC=0+-100	24546	C3-1/8-T0-2152-F
A16R113	0698-3237	0	1	RESISTOR 5K .25% .125W F TC=0+-50	28480	0698-3237
A16R114	0757-0199	3		RESISTOR 21.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2152-F
A16R115	0698-7268	5		RESISTOR 21.5K 1% .05W F TC=0+-100	24546	C3-1/8-T0-2152-F
A16R116	0698-8172	2	1	RESISTOR 4K .25% .125W F TC=0+-50	17701	MF4C1/8-T0-4001-C
A16R117	0757-0199	3		RESISTOR 21.5K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2152-F
A16R118	0698-7268	5		RESISTOR 21.5K 1% .05W F TC=0+-100	24546	C3-1/8-T0-2152-F
A16R119	0698-8868	3	1	RESISTOR 2.215K .25% .125W F TC=0+-100	28480	0698-8868
A16R120				NOT ASSIGNED		
A16R121	0698-3156	2		RESISTOR 14.7K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1472-F
A16R122	0757-0280	3		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A16R123	0698-3260	9		RESISTOR 464K 1% .125W F TC=0+-100	28480	0698-3260

See introduction to this section for ordering information
*Indicates factory selected value

A16 SWEEP GENERATOR BOARD ASSEMBLY, REPLACEABLE PARTS (HP PART NUMBER 5061-9058) (4 OF 4)

Reference Designation	HP Part Number	C D	Qty	Description	Mfr Code	Mfr Part Number
A16R124	0757-0280	3		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0 1001-F
A16R125	0757-0280	3		RESISTOR 1K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1001-F
A16R126	0757-0442	9		RESISTOR 10K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1002-F
A16R127	0698-3167	5	2	RESISTOR 25K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2532-F
A16R128	0757-0462	3	2	RESISTOR 75K 1% .125W F TC=0+-100	24546	C4-1/8-T0-7562-F
A16R129	0757-0462	3		RESISTOR 75K 1% .125W F TC=0+-100	24546	C4-1/8-T0-7532-F
A16R130	0698-3167	5		RESISTOR 25K 1% .125W F TC=0+-100	24546	C4-1/8-T0-2532-F
A16R131	2100-3109	2	1	RESISTOR-TMR 2K 10% C SIDE-ADJ 17-TRN	02111	437212
A16R132	0698-3160	8		RESISTOR 31.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-3162-F
A16R133	0757-0290	7		RESISTOR 5.62K 1% .125W F TC=0+-100	24546	C4-1/8-T0-5621-F
A16R134	0698-6901	1	1	RESISTOR 32.0K .5% .125W F TC=0+-50	20400	0698-6901
A16R135	0698-3157	3	1	RESISTOR 19.6K 1% .125W F TC=0+-100	24546	C4-1/8-T0-1962-F
A16TP1	1251-0600	0	6	CONNECTOR-SGL CONT PIN 1.14-MM-BSC-SZ SQ	20400	1251-0600
A16TP2	1251-0600	0		CONNECTOR-SGL CONT PIN 1.14-MM-BSC-SZ SQ	20400	1251-0600
A16TP3	1251-0600	0		CONNECTOR-SGL CONT PIN 1.14-MM-BSC-SZ SQ	20400	1251-0600
A16TP4	0360-0077	5	1	TERMINAL-STUD SGL-TUR SW6FRM-MTG	20400	0360-0077
A16TP5	1251-0600	0		CONNECTOR-SGL CONT PIN 1.14-MM-BSC-SZ SQ	20400	1251-0600
A16TP6	1251-0600	0		CONNECTOR-SGL CONT PIN 1.14-MM-BSC-SZ SQ	20400	1251-0600
A16TP7	1251-0600	0		CONNECTOR-SGL CONT PIN 1.14-MM-BSC-SZ SQ	20400	1251-0600
A16U1	1026-1058	3	1	IC OP AMP GP 8-T0-99 PKG	20400	1026-1058
A16U2	5081-8117	3	2	SCREEN 1026-0092	20400	5081-8117
A16U3	1020-0223	0	1	IC OP AMP GP TO-99 PKG	3L505	CA301AT
A16U4	1026-0026	3	1	IC COMPARATOR PRGM TO-99 PKG	01273	LM311L
A16U5	1020-1550	8	1	IC GATE CMOS CR QUAD 2-INP	3L505	CD4071BF
A16U6	1020-1551	9	2	IC GATE CMOS AND QUAD 2-INP	3L505	CD4081BF
A16U7	1020-1551	9		IC GATE CMOS AND QUAD 2-INP	3L505	CD4081BF
A16U8	1020-1592	8	1	IC INV CMOS HEX 1-INP	04713	MC14069UBCL
A16U9	5081-8117	3		SCREEN 1026-0092	20400	5081-8117
A16U10	1010-0208	0	1	NETWORK-RES 8-SIP68.0K OHM X 7	01121	208A683
A16U11	1026-0698	3	1	IC TEMP XDCR TO-52 PKG	24355	AD590JH
A16VR1	1902-0025	4	2	DIODE-ZNR 10V 5% DO-35 PD=.4W TC=+.062%	20400	1902-0025
A16VR2	1902-0041	4	2	DIODE-ZNR 5.11V 5% DO-35 PD=.4W TC=+.062%	20400	1902-0041
A16VR3	1902-0025	4		DIODE-ZNR 10V 5% DO-35 PD=.4W TC=+.062%	20400	1902-0025
A16VR4	1902-3171	7	0	DIODE-ZNR 11V 5% DO-35 PD=.4W TC=+.062%	20400	1902-3171
A16VR5	1902-3171	7		DIODE-ZNR 11V 5% DO-35 PD=.4W TC=+.062%	20400	1902-3171
A16VR6	1902-3171	7		DIODE-ZNR 11V 5% DO-35 PD=.4W TC=+.062%	20400	1902-3171
A16VR7	1902-3171	7		DIODE-ZNR 11V 5% DO-35 PD=.4W TC=+.062%	20400	1902-3171
A16VR8	1902-3171	7		DIODE-ZNR 11V 5% DO-35 PD=.4W TC=+.062%	20400	1902-3171
A16VR9	1902-3171	7		DIODE-ZNR 11V 5% DO-35 PD=.4W TC=+.062%	20400	1902-3171
A16VR10	1902-3171	7		DIODE-ZNR 11V 5% DO-35 PD=.4W TC=+.062%	20400	1902-3171
A16VR11	1902-0041	4		DIODE-ZNR 5.11V 5% DO-35 PD=.4W TC=+.062%	20400	1902-0041
A16VR12	1902-3171	7		DIODE-ZNR 11V 5% DO-35 PD=.4W TC=+.062%	20400	1902-3171
A16W1	8159-0005	0	1	JUMPER WIRE 1x22 AWG	20400	8157-0005
				MISCELLANEOUS		
A16MP1	1205-0202	1	1	THERMAL LINK DUAL TO-18-CS	20400	1205-0202
A16MP2	1480-0073	6	2	PIN-ROLL .062-IN-DIA .25-IN-LG DE-CU	20400	1480-0073
A16MP3	4040-0748	3	1	EXTR-PC BD BLK POLYC .062-BD-THKNS	20400	4040-0748
A16MP4	4040-0753	0	1	EXTR-PC BD GRN POLYC .062-BD-THKNS	20400	4040-0753

See introduction to this section for ordering information
 *Indicates factory selected value

A16 SWEEP GENERATOR ASSEMBLY
08569-60122



FIGURE 8-55. A 16 SWEEP GENERATOR ASSEMBLY, SCHEMATIC DIAGRAM (SERIAL PREFIX 2514A)

AIRBORNE		EARTH		WATER		OTHER		TOTAL	
NAME	UNIT	NAME	UNIT	NAME	UNIT	NAME	UNIT	NAME	UNIT
1. 1st Airborne	1st Airborne	2. 2nd Airborne	2nd Airborne	3. 3rd Airborne	3rd Airborne	4. 4th Airborne	4th Airborne	5. 5th Airborne	5th Airborne
6. 6th Airborne	6th Airborne	7. 7th Airborne	7th Airborne	8. 8th Airborne	8th Airborne	9. 9th Airborne	9th Airborne	10. 10th Airborne	10th Airborne
11. 11th Airborne	11th Airborne	12. 12th Airborne	12th Airborne	13. 13th Airborne	13th Airborne	14. 14th Airborne	14th Airborne	15. 15th Airborne	15th Airborne
16. 16th Airborne	16th Airborne	17. 17th Airborne	17th Airborne	18. 18th Airborne	18th Airborne	19. 19th Airborne	19th Airborne	20. 20th Airborne	20th Airborne
21. 21st Airborne	21st Airborne	22. 22nd Airborne	22nd Airborne	23. 23rd Airborne	23rd Airborne	24. 24th Airborne	24th Airborne	25. 25th Airborne	25th Airborne
26. 26th Airborne	26th Airborne	27. 27th Airborne	27th Airborne	28. 28th Airborne	28th Airborne	29. 29th Airborne	29th Airborne	30. 30th Airborne	30th Airborne
31. 31st Airborne	31st Airborne	32. 32nd Airborne	32nd Airborne	33. 33rd Airborne	33rd Airborne	34. 34th Airborne	34th Airborne	35. 35th Airborne	35th Airborne
36. 36th Airborne	36th Airborne	37. 37th Airborne	37th Airborne	38. 38th Airborne	38th Airborne	39. 39th Airborne	39th Airborne	40. 40th Airborne	40th Airborne
41. 41st Airborne	41st Airborne	42. 42nd Airborne	42nd Airborne	43. 43rd Airborne	43rd Airborne	44. 44th Airborne	44th Airborne	45. 45th Airborne	45th Airborne
46. 46th Airborne	46th Airborne	47. 47th Airborne	47th Airborne	48. 48th Airborne	48th Airborne	49. 49th Airborne	49th Airborne	50. 50th Airborne	50th Airborne
51. 51st Airborne	51st Airborne	52. 52nd Airborne	52nd Airborne	53. 53rd Airborne	53rd Airborne	54. 54th Airborne	54th Airborne	55. 55th Airborne	55th Airborne
56. 56th Airborne	56th Airborne	57. 57th Airborne	57th Airborne	58. 58th Airborne	58th Airborne	59. 59th Airborne	59th Airborne	60. 60th Airborne	60th Airborne
61. 61st Airborne	61st Airborne	62. 62nd Airborne	62nd Airborne	63. 63rd Airborne	63rd Airborne	64. 64th Airborne	64th Airborne	65. 65th Airborne	65th Airborne
66. 66th Airborne	66th Airborne	67. 67th Airborne	67th Airborne	68. 68th Airborne	68th Airborne	69. 69th Airborne	69th Airborne	70. 70th Airborne	70th Airborne
71. 71st Airborne	71st Airborne	72. 72nd Airborne	72nd Airborne	73. 73rd Airborne	73rd Airborne	74. 74th Airborne	74th Airborne	75. 75th Airborne	75th Airborne
76. 76th Airborne	76th Airborne	77. 77th Airborne	77th Airborne	78. 78th Airborne	78th Airborne	79. 79th Airborne	79th Airborne	80. 80th Airborne	80th Airborne
81. 81st Airborne	81st Airborne	82. 82nd Airborne	82nd Airborne	83. 83rd Airborne	83rd Airborne	84. 84th Airborne	84th Airborne	85. 85th Airborne	85th Airborne
86. 86th Airborne	86th Airborne	87. 87th Airborne	87th Airborne	88. 88th Airborne	88th Airborne	89. 89th Airborne	89th Airborne	90. 90th Airborne	90th Airborne
91. 91st Airborne	91st Airborne	92. 92nd Airborne	92nd Airborne	93. 93rd Airborne	93rd Airborne	94. 94th Airborne	94th Airborne	95. 95th Airborne	95th Airborne
96. 96th Airborne	96th Airborne	97. 97th Airborne	97th Airborne	98. 98th Airborne	98th Airborne	99. 99th Airborne	99th Airborne	100. 100th Airborne	100th Airborne

A16