

Ref.No. Part No. Description

**SMB-2 BOARD**

1-615-156-00 PC BOARD SMB-2  
S7 1-570-233-11 SWITCH,PUSH  
S8 1-570-232-11 SWITCH,PUSH

Ref.No. Part No. Description

**FX-51 BOARD**

1-560-552-11 CONNECTOR,PIN 5P  
1-612-045-00 PC BOARD,FX-51  
S3 1-554-118-11 SWITCH,PUSH  
S4 1-554-118-11 SWITCH,PUSH

**FX-50B BOARD**

1-508-695-11 CONNECTOR PIN 6P  
1-612-044-00 PC BOARD,FX-50  
S1 1-554-118-21 SWITCH,PUSH  
S2 1-554-118-21 SWITCH,PUSH

**SMB-3A BOARD**

1-615-157-00 PC BOARD,SMB-3  
S9 1-570-234-11 SWITCH,PUSH  
S10 1-570-234-11 SWITCH,PUSH  
S11 1-570-234-11 SWITCH,PUSH  
S12 1-570-234-11 SWITCH,PUSH

**FX-50C BOARD**

1-508-695-11 CONNECTOR PIN 6P  
1-612-044-00 PC BOARD,FX-50  
S9 1-554-118-11 SWITCH,PUSH  
S10 1-554-118-11 SWITCH,PUSH

**FX-53 BOARD**

1-560-552-11 CONNECTOR,PIN 5P  
1-612-047-00 PC BOARD,FX-53  
S4 1-554-118-21 SWITCH,PUSH  
S5 1-554-118-21 SWITCH,PUSH  
S6 1-554-118-21 SWITCH,PUSH  
S7 1-554-118-21 SWITCH,PUSH  
S8 1-554-118-21 SWITCH,PUSH

Ref.No.	Part No.	Description
FX-54 BOARD		
	1-613-488-00	PC BOARD,SW-92
R71	1-214-585-00	METAL 15K 1 $\frac{1}{2}$ W
RV7	1-230-386-11	VAR,CARBON(WITH SW) 10K
S13	1-554-380-11	SWITCH,PUSH(1 KEY)

#### SMB-38 BOARD

	1-615-157-00	PC BOARD,SWB-3
S5	1-570-234-11	SWITCH,PUSH
S6	1-570-234-11	SWITCH,PUSH
S7	1-570-234-11	SWITCH,PUSH
S8	1-570-234-11	SWITCH,PUSH

#### HP-16 BOARD

	1-612-058-00	PC BOARD,HP-16
C1	1-161-013-00	CERAMIC 0.01 10% 25V
C2	1-161-013-00	CERAMIC 0.01 10% 25V
C3	1-161-013-00	CERAMIC 0.01 10% 25V
J1	1-507-707-00	JACK,LARGE TYPE
L1	1-408-117-00	MICRO INDUCTOR 10
L2	1-408-117-00	MICRO INDUCTOR 10

Ref.No.	Part No.	Description
(HP-16 BOARD)		
R1	1-247-209-00	CARBON 51 5% 1/2W (NONFLAMMABLE)
R2	1-247-209-00	CARBON 51 5% 1/2W (NONFLAMMABLE)

#### SMB-5 BOARD

	1-615-260-11	PC BOARD,SWB-5
	1-570-233-11	SWITCH,PUSH

#### IPM-1 BOARD

C1	1-102-106-00	CERAMIC 100PF 10% 50V
C2	1-101-882-00	CERAMIC 51PF 5% 50V
C3	1-101-882-00	CERAMIC 51PF 5% 50V
C4	1-131-381-00	TANTALUM 47 20% 10V
C5	1-131-371-00	TANTALUM 10 20% 16V
C6	1-102-106-00	CERAMIC 100PF 10% 50V
C7	1-108-570-00	MYLAR 0.0043 5% 50V
C8	1-108-570-00	MYLAR 0.0043 5% 50V
CON1	1-564-533-11	CONNECTOR PIN 11P
IC1	8-759-700-40	NJM4560S
Q1	8-765-492-00	2SC2014-2
Q2	8-765-492-00	2SC2014-2

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
(IPM-1 BOARD)			C23	1-131-395-00	TANTALUM 100 20% 3.15V
R1	1-214-139-00	METAL 2K 1% 1/4W	C24	1-131-381-00	TANTALUM 47 20% 10V
R2	1-214-139-00	METAL 2K 1% 1/4W	C25	1-130-483-00	MYLAR 0.01 5% 50V
R3	1-214-533-00	METAL 100 1% 1/8W	C26	1-130-483-00	MYLAR 0.01 5% 50V
R4	1-214-585-00	METAL 15K 1% 1/8W	C27	1-130-483-00	MYLAR 0.01 5% 50V
R5	1-214-585-00	METAL 15K 1% 1/8W	C28	1-124-230-00	ELECT 47 20% 10V
R6	1-214-163-00	METAL 20K 1% 1/4W	C29	1-124-233-00	ELECT 10 20% 16V
R7	1-214-163-00	METAL 20K 1% 1/4W	C30	1-108-576-00	MYLAR 0.0075 5% 50V
R8	1-247-886-00	CARBON 200K 5% 1/6W	C31	1-108-576-00	MYLAR 0.0075 5% 50V
R9	1-214-581-00	METAL 10K 1% 1/8W	C32	1-108-588-00	MYLAR 0.024 5% 50V
			C33	1-130-492-00	MYLAR 0.056 5% 50V
			C34	1-130-496-00	MYLAR 0.12 5% 50V
			C35	1-102-112-00	CERAMIC 330PF 10% 50V
			C36	1-102-112-00	CERAMIC 330PF 10% 50V
			C37	1-130-471-00	MYLAR 0.001 5% 50V
			C38	1-108-564-00	MYLAR 0.0024 5% 50V
			C39	1-108-572-00	MYLAR 0.0051 5% 50V
			C40	1-130-484-00	MYLAR 0.012 5% 50V
			C41	1-124-133-00	ELECT 220 20% 6.3V
			C42	1-124-233-00	ELECT 10 20% 16V
IPM-7 BOARD			C43	1-131-395-00	TANTALUM 100 20% 3.15V
A-4382-186-A COMPLETE PCB, IPM-7			C44	1-101-888-00	CERAMIC 68PF 5% 50V
4-904-328-01 SPACER, MODULE			C45	1-124-140-00	ELECT 220 20% 10V
C1	1-123-371-00	ELECT 22.7 20% 63V	C46	1-124-233-00	ELECT 10 20% 16V
C2	1-123-371-00	ELECT 22.7 20% 63V	C47	1-124-230-00	ELECT 47 20% 10V
C3	1-130-475-00	MYLAR 0.0022 5% 50V	C48	1-124-143-00	ELECT 100 20% 16V
C4	1-130-467-00	MYLAR 470PF 5% 50V	C49	1-124-143-00	ELECT 100 20% 16V
C5	1-102-106-00	CERAMIC 100PF 10% 50V	CNP1	1-564-463-11	LIGHT ANGLE 5P
C6	1-102-106-00	CERAMIC 100PF 10% 50V	CNP2	1-564-464-11	LIGHT ANGLE 15P
C7	1-124-233-00	ELECT 10 20% 16V	CNP3	1-564-269-11	CONNECTOR PIN 3P
C8	1-124-233-00	ELECT 10 20% 16V	D1	8-719-100-43	RD7.5E-B1
C9	1-123-299-00	ELECT 1000 20% 6.3V	D2	8-719-100-43	RD7.5E-B1
C12	1-124-233-00	ELECT 10 20% 16V	D3	8-719-100-43	RD7.5E-B1
C13	1-124-255-00	ELECT 1 20% 50V	D4	8-719-100-43	RD7.5E-B1
C14	1-124-236-00	ELECT 47 20% 16V	D5	8-719-911-19	1SS119
C15	1-108-564-00	MYLAR 0.0024 5% 50V	IC1	8-759-700-40	NJM4560S
C16	1-130-472-00	MYLAR 0.0012 5% 50V	IC2	8-759-700-40	NJM4560S
C17	1-130-483-00	MYLAR 0.01 5% 50V	IC3	8-759-700-40	NJM4560S
C18	1-130-483-00	MYLAR 0.01 5% 50V	Q1	8-729-102-14	2SD1021-F
C19	1-124-230-00	ELECT 47 20% 10V			
C20	1-130-483-00	MYLAR 0.01 5% 50V			
C21	1-130-483-00	MYLAR 0.01 5% 50V			
C22	1-124-230-00	ELECT 47 20% 10V			

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
(IPM-7 BOARD)			(IPM-7 BOARD)		
R1	1-214-589-00	METAL 22K 1% 1/8W	R40	1-214-551-00	METAL 560 1% 1/8W
R2	1-214-559-00	METAL 1.2K 1% 1/8W	R41	1-247-892-00	CARBON 360K 5% 1/6W
R4	1-214-553-00	METAL 680 1% 1/8W	R42	1-247-903-00	CARBON 1M 5% 1/6W
R6	1-214-559-00	METAL 1.2K 1% 1/8W	R43	1-247-903-00	CARBON 1M 5% 1/6W
R8	1-214-553-00	METAL 680 1% 1/8W	R44	1-247-903-00	CARBON 1M 5% 1/6W
R10	1-214-580-00	METAL 9.1K 1% 1/8W	R45	1-247-903-00	CARBON 1M 5% 1/6W
R11	1-214-580-00	METAL 9.1K 1% 1/8W	R46	1-247-903-00	CARBON 1M 5% 1/6W
R12	1-214-517-00	METAL 22 1% 1/8W	R47	1-247-903-00	CARBON 1M 5% 1/6W
R13	1-214-517-00	METAL 22 1% 1/8W	R48	1-247-903-00	CARBON 1M 5% 1/6W
R14	1-214-581-00	METAL 10K 1% 1/8W	R49	1-247-903-00	CARBON 1M 5% 1/6W
R15	1-214-581-00	METAL 10K 1% 1/8W	R50	1-247-903-00	CARBON 1M 5% 1/6W
R16	1-247-879-00	CARBON 100K 5% 1/6W	R51	1-214-571-00	METAL 3.9K 1% 1/8W
R17	1-247-879-00	CARBON 100K 5% 1/6W	R52	1-214-561-00	METAL 1.5K 1% 1/8W
R18	1-247-887-00	CARBON 220K 5% 1/6W	R53	1-214-551-00	METAL 560 1% 1/8W
R19	1-214-523-00	METAL 39 1% 1/8W	R54	1-247-889-00	CARBON 270K 5% 1/6W
R20	1-214-564-00	METAL 2K 1% 1/8W	R55	1-214-562-00	METAL 1.6K 1% 1/8W
R21	1-214-547-00	METAL 390 1% 1/8W	R56	1-247-879-00	CARBON 100K 5% 1/6W
R22	1-247-873-00	CARBON 56K 5% 1/6W(*1)	R57	1-214-557-00	METAL 1K 1% 1/8W
	1-247-875-00	CARBON 68K 5% 1/6W(*2)	R58	1-214-563-00	METAL 1.8K 1% 1/8W
R23	1-247-879-00	CARBON 100K 5% 1/6W	R59	1-214-581-00	METAL 10K 1% 1/8W
R24	1-247-855-00	CARBON 10K 5% 1/6W	R60	1-247-879-00	CARBON 100K 5% 1/6W
R25	1-247-839-00	CARBON 2.2K 5% 1/6W	R61	1-214-564-00	METAL 2K 1% 1/8W
R26	1-212-889-00	FUSIBLE 220 5% 1/4W (NONFLAMMABLE)	R62	1-214-564-00	METAL 2K 1% 1/8W
R27	1-247-846-00	CARBON 4.3K 5% 1/6W	R63	1-214-581-00	METAL 10K 1% 1/8W
R28	1-214-580-00	METAL 9.1K 1% 1/8W	R64	1-214-581-00	METAL 10K 1% 1/8W
R29	1-214-580-00	METAL 9.1K 1% 1/8W	R65	1-214-581-00	METAL 10K 1% 1/8W
R30	1-214-565-00	METAL 2.2K 1% 1/8W	R66	1-214-581-00	METAL 10K 1% 1/8W
R31	1-247-879-00	CARBON 100K 5% 1/6W	R67	1-214-564-00	METAL 2K 1% 1/8W
R32	1-247-880-00	CARBON 110K 5% 1/6W	R68	1-214-572-00	METAL 4.3K 1% 1/8W
R33	1-247-887-00	CARBON 220K 5% 1/6W	R69	1-214-573-00	METAL 5.6K 1% 1/8W
R34	1-214-565-00	METAL 2.2K 1% 1/8W	R70	1-247-879-00	CARBON 100K 5% 1/6W
R35	1-247-879-00	CARBON 100K 5% 1/6W	R74	1-214-581-00	METAL 10K 1% 1/8W
R36	1-214-581-00	METAL 10K 1% 1/8W	R75	1-212-865-00	FUSIBLE 22 5% 1/4W (NONFLAMMABLE)
R37	1-247-879-00	CARBON 100K 5% 1/6W	R76	1-212-865-00	FUSIBLE 22 5% 1/4W (NONFLAMMABLE)
R38	1-247-879-00	CARBON 100K 5% 1/6W	R77	1-247-839-00	CARBON 2.2K 1/6W
R39	1-214-563-00	METAL 1.8K 1% 1/8W	R78	1-247-146-00	CARBON 4.3K 5% 1/4W

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
<b>(IPM-7 BOARD)</b>			<b>(MSM-7 BOARD)</b>		
RV1	1-230-385-11	VAR,CARBON(WITH SW) 500/5K	C11	1-124-233-00	ELECT 10 20% 16V
RV2	1-230-799-11	VAR,CARBON 250K	C12	1-124-233-00	ELECT 10 20% 16V
RV3	1-230-384-11	VAR,CARBON(WITH SW) 250K	C13	1-124-224-00	ELECT 47 20% 6.3V
RV4	1-230-799-11	VAR,CARBON 250K	C14	1-102-106-00	CERAMIC 100PF 10% 50V
RV5	1-230-382-11	VAR,CARBON 10K	C15	1-124-139-00	ELECT 100 20% 10V
RV6	1-226-771-12	VAR METAL 1K	C16	1-130-483-00	MYLAR 0.01 5% 50V
S1	1-554-472-11	SWITCH,PUSH(1 KEY)	C17	1-130-483-00	MYLAR 0.01 5% 50V
S2	1-230-385-11	VAR, CARBON (WITH SW) 500/5K	C18	1-124-234-00	ELECT 22 20% 16V
			C19	1-124-234-00	ELECT 22 20% 16V
			C20	1-102-112-00	CERAMIC 330PF 10% 50V
			C21	1-102-112-00	CERAMIC 330PF 10% 50V
			C22	1-124-233-00	ELECT 10 20% 16V
			C23	1-124-233-00	ELECT 10 20% 16V
			C24	1-124-244-00	ELECT 47 20% 6.3V
			C25	1-102-106-00	CERAMIC 100PF 10% 50V
			C26	1-124-139-00	ELECT 100 20% 10V
			C27	1-130-483-00	MYLAR 0.01 5% 50V
			C28	1-130-483-00	MYLAR 0.01 5% 50V
			C29	1-130-483-00	MYLAR 0.01 5% 50V
			C30	1-130-483-00	MYLAR 0.01 5% 50V
			C31	1-124-143-00	ELECT 100 20% 16V
			C32	1-124-143-00	ELECT 100 20% 16V
			CNP1	1-564-464-11	LIGHT ANGLE 15P
			CNP2	1-564-464-11	LIGHT ANGLE 15P
			CNP3	1-560-361-21	POST HEADER,1LG 8P
			CNP4	1-560-361-21	POST HEADER,1LG 8P
			CNP5	1-560-360-21	POST HEADER,1LG 6P
			CNP6	1-560-360-21	POST HEADER,1LG 6P
			CNP7	1-560-360-21	POST HEADER,1LG 6P
			CNP8	1-560-358-21	POST HEADER,1LG 4P
			CNP9	1-564-269-00	CONNECTOR PIN 3P
			CNP10	1-564-269-00	CONNECTOR PIN 3P
			D1	8-719-910-03	HZ20-3L
			D2	8-719-910-03	HZ20-3L
			D3	8-719-910-03	HZ20-3L
			D4	8-719-910-03	HZ20-3L
			D5	8-719-910-03	HZ20-3L
<b>IPM-3 BOARD</b>					
	1-612-069-00	PC BOARD,IPM-3			
<b>MSM-7 BOARD</b>					
	A-4385-208-A	COMPLETE PCB,MSM-7			
C1	1-124-133-00	ELECT 220 20% 6.3V			
C2	1-101-880-00	CERAMIC 47PF 5% 50V			
C3	1-124-139-00	ELECT 100 20% 10V			
C4	1-124-133-00	ELECT 220 20% 6.3V			
C5	1-101-880-00	CERAMIC 47PF 5% 50V			
C6	1-124-139-00	ELECT 100 20% 10V			
C7	1-124-234-00	ELECT 22 20% 16V			
C8	1-124-234-00	ELECT 22 20% 16V			
C9	1-102-112-00	CERAMIC 330PF 10% 50V			
C10	1-102-112-00	CERAMIC 330PF 10% 50V			



Ref.No. Part No. Description

(IPM-7 BOARD)


R1 1-214-589-00 METAL 22K 1% 1/8W  
 R2 1-214-559-00 METAL 1.2K 1% 1/8W  
 R4 1-214-553-00 METAL 680 1% 1/8W  
 R6 1-214-559-00 METAL 1.2K 1% 1/8W  
 R8 1-214-553-00 METAL 680 1% 1/8W

R10 1-214-580-00 METAL 9.1K 1% 1/8W  
 R11 1-214-580-00 METAL 9.1K 1% 1/8W  
 R12 1-214-517-00 METAL 22 1% 1/8W  
 R13 1-214-517-00 METAL 22 1% 1/8W  
 R14 1-214-581-00 METAL 10K 1% 1/8W

R15 1-214-581-00 METAL 10K 1% 1/8W  
 R16 1-247-879-00 CARBON 100K 5% 1/6W  
 R17 1-247-879-00 CARBON 100K 5% 1/6W  
 R18 1-247-887-00 CARBON 220K 5% 1/6W  
 R19 1-214-523-00 METAL 39 1% 1/8W

R20 1-214-564-00 METAL 2K 1% 1/8W  
 R21 1-214-547-00 METAL 390 1% 1/8W  
 R22 1-247-875-00 CARBON 56K 5% 1/6W(\*1)  
 1-247-875-00 CARBON 68K 5% 1/6W(\*2)  
 R23 1-247-879-00 CARBON 100K 5% 1/6W  
 R24 1-247-855-00 CARBON 10K 5% 1/6W

R25 1-247-839-00 CARBON 2.2K 5% 1/6W

R26 1-212-889-00  FUSIBLE 220 5% 1/4W  
 (NONFLAMMABLE)

R27 1-247-846-00 CARBON 4.3K 5% 1/6W  
 R28 1-214-580-00 METAL 9.1K 1% 1/8W  
 R29 1-214-580-00 METAL 9.1K 1% 1/8W

R30 1-214-565-00 METAL 2.2K 1% 1/8W  
 R31 1-247-879-00 CARBON 100K 5% 1/6W  
 R32 1-247-880-00 CARBON 110K 5% 1/6W  
 R33 1-247-887-00 CARBON 220K 5% 1/6W  
 R34 1-214-565-00 METAL 2.2K 1% 1/8W

R35 1-247-879-00 CARBON 100K 5% 1/6W  
 R36 1-214-581-00 METAL 10K 1% 1/8W  
 R37 1-247-879-00 CARBON 100K 5% 1/6W  
 R38 1-247-879-00 CARBON 100K 5% 1/6W  
 R39 1-214-563-00 METAL 1.8K 1% 1/8W

Ref.No. Part No. Description

(IPM-7 BOARD)

R40 1-214-551-00 METAL 560 1% 1/8W  
 R41 1-247-892-00 CARBON 360K 5% 1/6W  
 R42 1-247-903-00 CARBON 1M 5% 1/6W  
 R43 1-247-903-00 CARBON 1M 5% 1/6W  
 R44 1-247-903-00 CARBON 1M 5% 1/6W

R45 1-247-903-00 CARBON 1M 5% 1/6W  
 R46 1-247-903-00 CARBON 1M 5% 1/6W  
 R47 1-247-903-00 CARBON 1M 5% 1/6W  
 R48 1-247-903-00 CARBON 1M 5% 1/6W  
 R49 1-247-903-00 CARBON 1M 5% 1/6W


R50 1-247-903-00 CARBON 1M 5% 1/6W  
 R51 1-214-571-00 METAL 3.9K 1% 1/8W  
 R52 1-214-561-00 METAL 1.5K 1% 1/8W  
 R53 1-214-551-00 METAL 560 1% 1/8W  
 R54 1-247-889-00 CARBON 270K 5% 1/6W


R55 1-214-562-00 METAL 1.6K 1% 1/8W  
 R56 1-247-879-00 CARBON 100K 5% 1/6W  
 R57 1-214-557-00 METAL 1K 1% 1/8W  
 R58 1-214-563-00 METAL 1.8K 1% 1/8W  
 R59 1-214-581-00 METAL 10K 1% 1/8W

R60 1-247-879-00 CARBON 100K 5% 1/6W  
 R61 1-214-564-00 METAL 2K 1% 1/8W  
 R62 1-214-564-00 METAL 2K 1% 1/8W  
 R63 1-214-581-00 METAL 10K 1% 1/8W  
 R64 1-214-581-00 METAL 10K 1% 1/8W

R65 1-214-581-00 METAL 10K 1% 1/8W  
 R66 1-214-581-00 METAL 10K 1% 1/8W  
 R67 1-214-564-00 METAL 2K 1% 1/8W  
 R68 1-214-572-00 METAL 4.3K 1% 1/8W  
 R69 1-214-575-00 METAL 5.6K 1% 1/8W

R70 1-247-879-00 CARBON 100K 5% 1/6W  
 R74 1-214-581-00 METAL 10K 1% 1/8W

R75 1-212-865-00  FUSIBLE 22 5% 1/4W  
 (NONFLAMMABLE)

R76 1-212-865-00  FUSIBLE 22 5% 1/4W  
 (NONFLAMMABLE)

R77 1-247-839-00 CARBON 2.2K 1/6W  
 R78 1-247-146-00 CARBON 4.3K 5% 1/4W

Ref.No.	Part No.	Description
(MSM-7 BOARD)		
D6	8-719-910-03	HZ20-3L
D7	8-719-910-03	HZ20-3L
D8	8-719-910-03	HZ20-3L
IC1	8-759-700-40	NJM4560S
IC2	8-759-700-40	NJM4560S
IC3	8-759-700-40	NJM4560S
IC4	8-759-700-40	NJM4560S
R1	1-247-879-00	CARBON 100K 5% 1/6W
R2	1-214-581-00	METAL 10K 1% 1/8W
R3	1-214-581-00	METAL 10K 1% 1/8W
R4	1-214-581-00	METAL 10K 1% 1/8W
R5	1-247-879-00	CARBON 100K 5% 1/6W
R6	1-214-581-00	METAL 10K 1% 1/8W
R7	1-214-581-00	METAL 10K 1% 1/8W
R8	1-214-581-00	METAL 10K 1% 1/8W
R9	1-214-581-00	METAL 10K 1% 1/8W
R10	1-214-581-00	METAL 10K 1% 1/8W
R11	1-214-517-00	METAL 22 1% 1/8W
R12	1-214-517-00	METAL 22 1% 1/8W
R13	1-247-872-00	CARBON 51K 5% 1/6W
R14	1-247-872-00	CARBON 51K 5% 1/6W
R15	1-214-588-00	METAL 20K 1% 1/8W
R16	1-214-581-00	METAL 10K 1% 1/8W
R17	1-214-564-00	METAL 2K 1% 1/8W
R18	1-214-581-00	METAL 10K 1% 1/8W
R19	1-214-564-00	METAL 2K 1% 1/8W
R20	1-247-879-00	CARBON 100K 5% 1/6W
R21	1-247-831-00	CARBON 1K 5% 1/6W
R22	1-214-563-00	METAL 1.8K 1% 1/8W
R23	1-214-581-00	METAL 10K 1% 1/8W
R24	1-247-879-00	CARBON 100K 5% 1/6W
R25	1-214-564-00	METAL 2K 1% 1/8W
R26	1-214-564-00	METAL 2K 1% 1/8W
R27	1-214-581-00	METAL 10K 1% 1/8W
R28	1-214-581-00	METAL 10K 1% 1/8W
R29	1-214-581-00	METAL 10K 1% 1/8W
R30	1-214-581-00	METAL 10K 1% 1/8W

Ref.No.	Part No.	Description
(MSM-7 BOARD)		
R31	1-214-517-00	METAL 22 1% 1/8W
R32	1-214-517-00	METAL 22 1% 1/8W
R33	1-247-872-00	CARBON 51K 5% 1/6W
R34	1-247-872-00	CARBON 51K 5% 1/6W
R35	1-214-588-00	METAL 20K 1% 1/8W
R36	1-214-581-00	METAL 10K 1% 1/8W
R37	1-214-564-00	METAL 2K 1% 1/8W
R38	1-214-581-00	METAL 10K 1% 1/8W
R39	1-214-564-00	METAL 2K 1% 1/8W
R40	1-247-879-00	CARBON 100K 5% 1/6W
R41	1-247-831-00	CARBON 1K 5% 1/6W
R42	1-214-563-00	METAL 1.8K 1% 1/8W
R43	1-214-581-00	METAL 10K 1% 1/8W
R44	1-247-879-00	CARBON 100K 5% 1/6W
R45	1-214-564-00	METAL 2K 1% 1/8W
R46	1-214-564-00	METAL 2K 1% 1/8W
R47	1-214-581-00	METAL 10K 1% 1/8W
R48	1-214-581-00	METAL 10K 1% 1/8W
R49	1-214-581-00	METAL 10K 1% 1/8W
R50	1-214-581-00	METAL 10K 1% 1/8W
R51	1-214-552-00	METAL 620 1% 1/8W
R52	1-214-549-00	METAL 470 1% 1/8W
R53	1-214-547-00	METAL 390 1% 1/8W
R54	1-214-544-00	METAL 300 1% 1/8W
R55	1-214-559-00	METAL 1.2K 1% 1/8W
R56	1-214-552-00	METAL 620 1% 1/8W
R57	1-214-549-00	METAL 470 1% 1/8W
R58	1-214-547-00	METAL 390 1% 1/8W
R59	1-214-544-00	METAL 300 1% 1/8W
R60	1-214-559-00	METAL 1.2K 1% 1/8W
R61	1-212-865-00	FUSIBLE 22 5% 1/4W (NONFLAMMABLE)
R62	1-212-865-00	FUSIBLE 22 5% 1/4W (NONFLAMMABLE)
R63	1-247-839-00	CARBON 2.2K 1/6W
R64	1-246-488-00	CARBON 4.3K 1/4W
R65	1-246-488-00	CARBON 4.3K 1/4W

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
(MSM-2 BOARD)			(MSM-2 BOARD)		
D11	8-719-911-19	1SS119	R6	1-214-567-00	METAL 2.7K 1% 1/8W
D12	8-719-911-19	1SS119	R7	1-214-588-00	METAL 20K 1% 1/8W
D13	8-719-911-19	1SS119	R8	1-214-593-00	METAL 33K 1% 1/8W
D14	8-719-911-19	1SS119	R9	1-214-575-00	METAL 5.6K 1% 1/8W
D15	8-719-911-19	1SS119	R10	1-214-533-00	METAL 100 1% 1/8W
D16	8-719-911-19	1SS119	R11	1-214-526-00	METAL 51 1% 1/8W
D18	8-719-911-19	1SS119	R12	1-247-892-00	CARBON 360K 5% 1/6W
D19	8-719-911-19	1SS119	R13	1-214-593-00	METAL 33K 1% 1/8W
IC1	8-759-700-40	NJM4560S	R14	1-247-879-00	CARBON 100K 5% 1/6W
IC2	8-759-910-56	2150A	R15	1-247-831-00	CARBON 1K 5% 1/6W
IC3	8-759-700-40	NJM4560S	R16	1-247-858-00	CARBON 13K 5% 1/6W
IC4	8-759-700-40	NJM4560S	R17	1-247-875-00	CARBON 68K 5% 1/6W
IC5	8-759-700-40	NJM4560S	R18	1-247-896-00	CARBON 510K 5% 1/6W
IC6	8-759-910-56	2150A	R19	1-247-860-00	CARBON 16K 5% 1/6W
IC7	8-759-700-40	NJM4560S	R20	1-247-831-00	CARBON 1K 5% 1/6W
IC8	8-759-700-40	NJM4560S	R21	1-247-875-00	CARBON 68K 5% 1/6W
IC9	8-759-700-40	NJM4560S	R22	1-247-875-00	CARBON 68K 5% 1/6W
IC10	8-759-700-40	NJM4560S	R23	1-212-857-00	FUSIBLE 10 5% 1/4W (NONFLAMMABLE)
Q1	8-729-102-14	2SD1021-F	R24	1-247-783-00	CARBON 10 5% 1/6W
Q2	8-729-102-14	2SD1021-F	R25	1-247-887-00	CARBON 220K 5% 1/6W
Q3	8-729-102-14	2SD1021-F	R26	1-247-903-00	CARBON 1M 5% 1/6W
Q4	8-729-102-14	2SD1021-F	R27	1-247-783-00	CARBON 10 5% 1/6W
Q5	8-729-218-42	2SK184-Y	R28	1-247-867-00	CARBON 33K 5% 1/6W
Q6	8-729-102-14	2SD1021-F	R29	1-247-883-00	CARBON 150K 5% 1/6W
Q7	8-729-102-14	2SD1021-F	R30	1-247-857-00	CARBON 12K 5% 1/6W
Q8	8-729-102-14	2SD1021-F	R31	1-247-879-00	CARBON 100K 5% 1/6W
Q9	8-729-102-14	2SD1021-F	R32	1-247-867-00	CARBON 33K 5% 1/6W
Q10	8-729-102-14	2SD1021-F	R33	1-247-835-00	CARBON 1.5K 5% 1/6W
Q11	8-729-218-42	2SK184-Y	R34	1-247-857-00	CARBON 12K 5% 1/6W
Q12	8-729-102-14	2SD1021-F	R35	1-248-867-00	CARBON 33K 5% 1/6W
Q13	8-729-218-42	2SK184-Y	R36	1-247-854-00	CARBON 9.1K 5% 1/6W
Q14	8-729-102-14	2SD102-F	R37	1-212-889-00	FUSIBLE 220 5% 1/4W (NONFLAMMABLE)
Q15	8-729-218-42	2SK184-Y	R38	1-247-844-00	CARBON 3.6K 5% 1/6W
Q16	8-729-102-14	2SD1021-F	R39	1-214-581-00	METAL 10K 1% 1/8W
Q17	8-729-218-42	2SK184-Y	R40	1-247-831-00	CARBON 1K 5% 1/6W
R1	1-214-581-00	METAL 10K 1% 1/8W			
R2	1-247-831-00	CARBON 1K 5% 1/6W			
R3	1-247-879-00	CARBON 100K 5% 1/6W			
R4	1-247-879-00	CARBON 100K 5% 1/6W			
R5	1-247-831-00	CARBON 1K 5% 1/6W			



Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
(MSM-2 BOARD)			(MSM-2 BOARD)		
R41	1-247-879-00	CARBON 100K 5% 1/6W	R76	1-214-581-00	METAL 10K 1% 1/8W
R42	1-247-879-00	CARBON 100K 5% 1/6W	R77	1-247-872-00	CARBON 51K 5% 1/6W
R43	1-247-831-00	CARBON 1K 5% 1/6W	R78	1-247-831-00	CARBON 1K 5% 1/6W
R44	1-214-567-00	METAL 2.7K 1% 1/8W	R79	1-247-879-00	CARBON 100K 5% 1/6W
R45	1-214-588-00	METAL 20K 1% 1/8W	R80	1-247-879-00	CARBON 100K 5% 1/6W
R46	1-214-593-00	METAL 33K 1% 1/8W	R81	1-214-577-00	METAL 6.8K 1% 1/8W
R47	1-214-575-00	METAL 5.6K 1% 1/8W	R82	1-247-879-00	CARBON 100K 5% 1/6W
R48	1-214-533-00	METAL 100 1% 1/8W	R83	1-247-879-00	CARBON 100K 5% 1/6W
R49	1-214-526-00	METAL 51 1% 1/8W	R84	1-247-872-00	CARBON 51K 5% 1/6W
R50	1-247-892-00	CARBON 360K 5% 1/6W	R85	1-214-581-00	METAL 10K 1% 1/8W
R51	1-214-593-00	METAL 33K 1% 1/8W	R86	1-214-581-00	METAL 10K 1% 1/8W
R52	1-247-879-00	CARBON 100K 5% 1/6W	R87	1-247-872-00	CARBON 51K 5% 1/6W
R53	1-247-831-00	CARBON 1K 5% 1/6W	R88	1-247-831-00	CARBON 1K 5% 1/6W
R54	1-247-858-00	CARBON 13K 5% 1/6W	R89	1-247-879-00	CARBON 100K 5% 1/6W
R55	1-247-875-00	CARBON 68K 5% 1/6W	R90	1-247-879-00	CARBON 100K 5% 1/6W
R56	1-247-896-00	CARBON 510K 5% 1/6W	R91	1-214-577-00	METAL 6.8K 1% 1/8W
R57	1-247-860-00	CARBON 16K 5% 1/6W	R92	1-247-879-00	CARBON 100K 5% 1/6W
R58	1-247-831-00	CARBON 1K 5% 1/6W	R93	1-247-879-00	CARBON 100K 5% 1/6W
R59	1-247-875-00	CARBON 68K 5% 1/6W	R94	1-247-872-00	CARBON 51K 5% 1/6W
R60	1-247-875-00	CARBON 68K 5% 1/6W	R95	1-214-581-00	METAL 10K 1% 1/8W
R61	1-212-857-00	FUSIBLE 10 5% 1/4W (NONFLAMMABLE)	R96	1-214-581-00	METAL 10K 1% 1/8W
R62	1-247-783-00	CARBON 10 5% 1/6W	R97	1-247-872-00	CARBON 51K 5% 1/6W
R63	1-247-887-00	CARBON 220K 5% 1/6W	R98	1-247-831-00	CARBON 1K 5% 1/6W
R64	1-247-903-00	CARBON 1M 5% 1/6W	R99	1-247-879-00	CARBON 100K 5% 1/6W
R65	1-247-783-00	CARBON 10 5% 1/6W	R100	1-247-879-00	CARBON 100K 5% 1/6W
R66	1-247-867-00	CARBON 33K 5% 1/6W	R101	1-214-577-00	METAL 6.8K 1% 1/8W
R67	1-247-883-00	CARBON 150K 5% 1/6W	R102	1-247-879-00	CARBON 100K 5% 1/6W
R68	1-247-857-00	CARBON 12K 5% 1/6W	R103	1-212-865-00	FUSIBLE 22 5% 1/4W (NONFLAMMABLE)
R69	1-247-879-00	CARBON 100K 5% 1/6W	R104	1-212-865-00	FUSIBLE 22 5% 1/4W (NONFLAMMABLE)
R70	1-247-867-00	CARBON 33K 5% 1/6W	RV1	1-226-702-12	VAR,METAL 2.2K
R71	1-247-835-00	CARBON 1.5K 5% 1/6W	RV2	1-226-773-12	VAR,METAL 22K
R72	1-247-857-00	CARBON 12K 5% 1/6W	RV3	1-226-702-12	VAR,METAL 2.2K
R73	1-247-879-00	CARBON 100K 5% 1/6W	RV4	1-226-773-12	VAR,METAL 22K
R74	1-247-872-00	CARBON 51K 5% 1/6W			
R75	1-214-581-00	METAL 10K 1% 1/8W			

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
<b>MSM-3 BOARD (WITH MIC BOARD)</b>			<b>(MSM-3 BOARD)</b>		
	A-438J-167-A	COMPLETE PCB,MSM-3	C36	1-124-238-00	ELECT 4.7 20% 25V
	1-609-885-00	PC BOARD,MIC	C37	1-130-483-00	MYLAR 0.01 5% 50V
	8-814-189-00	MICROPHONE,BUILT-IN(C-1007A)	C38	1-124-230-00	ELECT 47 20% 10V
C1	1-124-243-00	ELECT 2.2 20% 35V	C39	1-124-238-00	ELECT 4.7 20% 25V
C2	1-124-229-00	ELECT 33 20% 10V	C40	1-124-230-00	ELECT 47 20% 10V
C3	1-130-483-00	MYLAR 0.01 5% 50V	C41	1-130-483-00	MYLAR 0.01 5% 50V
C4	1-124-233-00	ELECT 10 20% 16V	C42	1-131-341-00	TANTALUM 0.1 20% 35V
C5	1-102-808-00	CERAMIC 6PF 50V	C43	1-102-951-00	CERAMIC 15PF 5% 50V
C6	1-130-483-00	MYLAR 0.01 5% 50V	C44	1-102-951-00	CERAMIC 15PF 5% 50V
C7	1-124-230-00	ELECT 47 20% 10V	CNP3	1-560-359-21	POST HEADER, 1LG(5P)
C8	1-124-243-00	ELECT 2.2 20% 35V	CNP4	1-560-61B-21	POST HEADER, 1LG(7P)
C9	1-124-229-00	ELECT 33 20% 10V	CNP5	1-560-359-21	POST HEADER, 1LG(5P)
C10	1-130-483-00	MYLAR 0.01 5% 50V	CNP6	1-560-358-21	POST HEADER, 1LG(4P)
C11	1-124-233-00	ELECT 10 20% 16V	CNP7	1-560-359-21	POST HEADER, 1LG(5P)
C12	1-102-808-00	CERAMIC 6PF 50V	CNP8	1-560-358-21	POST HEADER, 1LG(4P)
C13	1-130-483-00	MYLAR 0.01 5% 50V	CNP9	1-560-362-21	POST HEADER, 1LG(10P)
C14	1-124-230-00	ELECT 47 20% 10V	CNP10	1-564-269-11	CONNECTOR PIN 3P
C15	1-123-484-00	ELECT 100 20% 16V	CNP11	1-564-269-11	CONNECTOR PIN 3P
C16	1-123-484-00	ELECT 100 20% 16V	D1	8-719-911-19	1SS119
C17	1-124-229-00	ELECT 33 20% 10V	D2	8-719-911-19	1SS119
C18	1-131-341-00	TANTALUM 0.1 20% 35V	D3	8-719-911-19	1SS119
C19	1-124-222-00	ELECT 22 20% 6.3V	D6	8-719-911-19	1SS119
C20	1-124-255-00	ELECT 1 20% 50V	D7	8-719-911-19	1SS119
C21	1-130-483-00	MYLAR 0.01 5% 50V	IC1	8-759-700-40	NJM4560S
C22	1-102-112-00	CERAMIC 330PF 10% 50V	IC2	8-759-910-56	2150A
C23	1-130-491-00	MYLAR 0.047 5% 50V	IC3	8-759-700-40	NJM4560S
C24	1-124-255-00	ELECT 1 20% 50V	IC4	8-759-910-56	2150A
C25	1-130-483-00	MYLAR 0.01 5% 50V	IC5	8-759-700-40	NJM4560S
C26	1-130-483-00	MYLAR 0.01 5% 50V	IC6	8-759-700-40	NJM4560S
C27	1-130-483-00	MYLAR 0.01 5% 50V	IC7	8-759-700-40	NJM4560S
C28	1-124-255-00	ELECT 1 20% 50V	IC8	8-757-700-00	CX-770
C29	1-124-255-00	ELECT 1 20% 50V	Q1	8-729-102-14	2SD1021-F
C30	1-124-233-00	ELECT 10 20% 16V	Q2	8-729-102-14	2SD1021-F
C31	1-130-483-00	MYLAR 0.01 5% 50V	Q3	8-729-218-42	2SK184-Y
C32	1-131-368-00	TANTALUM 3.3 20% 16V	Q4	8-729-218-42	2SK184-Y
C33	1-124-233-00	ELECT 10 20% 16V	Q5	8-729-218-42	2SK184-Y
C34	1-130-483-00	MYLAR 0.01 5% 50V	Q6	8-729-218-42	2SK184-Y
C35	1-124-230-00	ELECT 47 20% 10V	Q7	8-729-102-14	2SD1021-F
			Q8	8-729-181-13	2SB811-H
			Q9	8-729-102-14	2SD1021-F

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
(MSM-3 BOARD)			(MSM-3 BOARD)		
R1	1-214-588-00	METAL 20K 1% 1/8W	R36	1-247-879-00	CARBON 100K 5% 1/6W
R2	1-247-831-00	CARBON 1K 5% 1/6W	R37	1-247-887-00	CARBON 220K 5% 1/6W
R3	1-247-879-00	CARBON 100K 5% 1/6W	R38	1-247-872-00	CARBON 51K 5% 1/6W
R4	1-247-879-00	CARBON 100K 5% 1/6W	R39	1-247-903-00	CARBON 1M 5% 1/6W
R5	1-247-831-00	CARBON 1K 5% 1/6W	R40	1-247-903-00	CARBON 1M 5% 1/6W
R6	1-214-567-00	METAL 2.7K 1% 1/8W	R41	1-214-585-00	METAL 15K 1% 1/8W
R7	1-214-588-00	METAL 20K 1% 1/8W	R42	1-214-581-00	METAL 10K 1% 1/8W
R8	1-214-593-00	METAL 33K 1% 1/8W	R43	1-214-579-00	METAL 8.2K 1% 1/8W
R9	1-214-575-00	METAL 5.6K 1% 1/8W	R44	1-214-586-00	METAL 16K 1% 1/8W
R10	1-214-533-00	METAL 100 1% 1/8W	R45	1-214-581-00	METAL 10K 1% 1/8W
R11	1-214-526-00	METAL 51 1% 1/8W	R46	1-247-903-00	CARBON 1M 5% 1/6W
R12	1-247-892-00	CARBON 360K 5% 1/6W	R47	1-247-854-00	CARBON 9.1K 5% 1/6W
R13	1-214-593-00	33K 1% 1/8W	R48	1-247-831-00	CARBON 1K 5% 1/6W
R14	1-247-879-00	CARBON 100K 5% 1/6W	R49	1-247-839-00	CARBON 2.2K 5% 1/6W
R15	1-247-831-00	CARBON 1K 5% 1/6W	R50	1-247-790-00	CARBON 20 5% 1/6W
R16	1-247-879-00	CARBON 100K 5% 1/6W	R51	1-214-593-00	METAL 33K 1% 1/8W
R17	1-247-879-00	CARBON 100K 5% 1/6W	R52	1-214-593-00	METAL 33K 1% 1/8W
R18	1-247-831-00	CARBON 1K 5% 1/6W	R53	1-214-593-00	METAL 33K 1% 1/8W
R19	1-214-567-00	METAL 2.7K 1% 1/8W	R54	1-214-593-00	METAL 33K 1% 1/8W
R20	1-214-588-00	METAL 20K 1% 1/8W	R65	1-214-559-00	METAL 1.2K 1% 1/8W
R21	1-214-593-00	METAL 33K 1% 1/8W	R66	1-214-546-00	METAL 360 1% 1/8W
R22	1-214-575-00	METAL 5.6K 1% 1/8W	R67	1-214-547-00	METAL 390 1% 1/8W
R23	1-214-533-00	METAL 100 1% 1/8W	R68	1-214-549-00	METAL 470 1% 1/8W
R24	1-214-526-00	METAL 51 1% 1/8W	R69	1-214-552-00	METAL 620 1% 1/8W
R25	1-247-892-00	CARBON 360K 5% 1/6W	R70	1-214-559-00	METAL 1.2K 1% 1/8W
R26	1-214-593-00	METAL 33K 1% 1/8W	R71	1-214-546-00	METAL 360 1% 1/8W
R27	1-247-879-00	CARBON 100K 5% 1/6W	R72	1-214-547-00	METAL 390 1% 1/8W
R28	1-212-865-00	FUSIBLE 22 5% 1/4W (NONFLAMMABLE)	R73	1-214-549-00	METAL 470 1% 1/8W
R29	1-212-865-00	FUSIBLE 22 5% 1/4W (NONFLAMMABLE)	R74	1-214-552-00	METAL 620 1% 1/8W
R30	1-247-851-00	CARBON 6.8K 5% 1/6W	R75	1-214-593-00	METAL 33K 1% 1/8W
R31	1-247-842-00	CARBON 3K 5% 1/6W	R76	1-214-593-00	METAL 33K 1% 1/8W
R32	1-214-563-00	METAL 1.8K 1% 1/8W	R77	1-214-581-00	METAL 10K 1% 1/8W
R33	1-214-581-00	METAL 10K 1% 1/8W	R78	1-214-581-00	METAL 10K 1% 1/8W
R34	1-214-581-00	METAL 10K 1% 1/8W	R79	1-247-831-00	CARBON 1K 5% 1/6W
R35	1-214-521-00	METAL 33 1% 1/8W	R80	1-247-879-00	CARBON 100K 5% 1/6W
			R81	1-247-879-00	CARBON 100K 5% 1/6W
			R82	1-247-839-00	CARBON 2.2K 5% 1/6W
			R83	1-214-569-00	METAL 3.3K 1% 1/8W
			R84	1-214-592-00	METAL 30K 1% 1/8W
			R85	1-214-557-00	METAL 1K 1% 1/8W





Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
(MSM-4 BOARD)			(MSM-4 BOARD)		
C26	1-124-229-00	ELECT 33 20% 10V	CNP1	1-564-464-11	LIGHT ANGLE 15P
C27	1-130-483-00	MYLAR 0.01 5% 50V	CNP2	1-564-465-11	LIGHT ANGLE 22P
C28	1-102-112-00	CERAMIC 330PF 10% 50V	D1	8-719-911-19	1SS119
C29	1-102-112-00	CERAMIC 330PF 10% 50V	D2	8-719-911-19	1SS119
C30	1-130-483-00	MYLAR 0.01 5% 50V	D3	8-719-911-19	1SS119
C31	1-124-229-00	ELECT 33 20% 10V	D4	8-719-911-19	1SS119
C32	1-102-112-00	CERAMIC 330PF 10% 50V	D5	8-719-911-19	1SS119
C33	1-102-112-00	CERAMIC 330PF 10% 50V	D6	8-719-911-19	1SS119
C34	1-130-483-00	MYLAR 0.01 5% 50V	D7	8-719-911-19	1SS119
C35	1-124-233-00	ELECT 10 20% 16V	D8	8-719-911-19	1SS119
C36	1-102-106-00	CERAMIC 100PF 10% 50V	D9	8-719-911-19	1SS119
C37	1-124-133-00	ELECT 220 20% 6.3V	D10	8-719-911-19	1SS119
C38	1-130-483-00	MYLAR 0.01 5% 50V	D11	8-719-911-19	1SS119
C39	1-124-144-00	ELECT 220 20% 16V	D12	8-719-911-19	1SS119
C40	1-124-144-00	ELECT 220 20% 16V	D13	8-719-911-19	1SS119
C41	1-124-237-00	ELECT 3.3 20% 25V	D14	8-719-911-19	1SS119
C42	1-124-229-00	ELECT 33 20% 10V	D15	8-719-911-19	1SS119
C43	1-130-483-00	MYLAR 0.01 5% 50V	D16	8-719-911-19	1SS119
C44	1-124-243-00	ELECT 2.2 20% 35V	D17	8-719-910-03	HZ20-3L
C45	1-124-237-00	ELECT 3.3 20% 25V	D18	8-719-910-03	HZ20-3L
C46	1-124-229-00	ELECT 33 20% 10V	D19	8-719-910-03	HZ20-3L
C47	1-130-483-00	MYLAR 0.01 5% 50V	D20	8-719-910-03	HZ20-3L
C48	1-124-243-00	ELECT 2.2 20% 35V	D21	8-719-910-03	HZ20-3L
C49	1-124-233-00	ELECT 10 20% 16V	D22	8-719-910-03	HZ20-3L
C50	1-131-318-00	TANTALUM 47 20% 10V	D23	8-719-910-03	HZ20-3L
C51	1-130-483-00	MYLAR 0.01 5% 50V	D24	8-719-910-03	HZ20-3L
C52	1-124-236-00	ELECT 47 20% 16V	D25	8-719-910-03	HZ20-3L
C53	1-124-233-00	ELECT 10 20% 16V	D26	8-719-910-03	HZ20-3L
C54	1-131-318-00	TANTALUM 47 20% 10V	D27	8-719-910-03	HZ20-3L
C55	1-130-483-00	MYLAR 0.01 5% 50V	D28	8-719-910-03	HZ20-3L
C56	1-124-236-00	ELECT 47 20% 16V	D29	8-719-912-00	MV-12N
C57	1-124-234-00	ELECT 22 20% 16V	D30	8-719-912-00	MV-12N
C58	1-124-234-00	ELECT 22 20% 16V	IC1	8-759-700-40	NJM4560S
C59	1-124-234-00	ELECT 22 20% 16V	IC2	8-759-700-40	NJM4560S
C60	1-124-234-00	ELECT 22 20% 16V	IC3	8-759-700-40	NJM4560S
C61	1-124-234-00	ELECT 22 20% 16V	IC4	8-759-700-40	NJM4560S
C62	1-124-234-00	ELECT 22 20% 16V	IC5	8-759-700-40	NJM4560S
C63	1-130-483-00	MYLAR 0.01 5% 50V			
C64	1-131-345-00	TANTALUM 0.47 20% 35V			
C65	1-102-963-00	CERAMIC 33PF 5% 50V			
C66	1-102-963-00	CERAMIC 33PF 5% 50V			



Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
(MSM-4 BOARD)			(MSM-4 BOARD)		
IC6	8-759-700-40	NJM4560S	R21	1-214-593-00	METAL 33K 1% 1/8W
IC7	8-759-700-40	NJM4560S	R22	1-247-854-00	CARBON 9.1K 5% 1/6W
IC8	8-759-700-40	NJM4560S	R23	1-247-844-00	CARBON 3.6K 5% 1/6W
IC9	8-759-700-40	NJM4560S	R24	1-212-889-00	FUSIBLE 220 5% 1/4W (NONFLAMMABLE)
Q1	8-729-102-14	2SD1021-F	R25	1-247-896-00	CARBON 510K 5% 1/6W
Q2	8-729-102-14	2SD1021-F	R26	1-214-557-00	METAL 1K 1% 1/8W
Q3	8-729-218-42	2SK184-Y	R27	1-247-875-00	CARBON 68K 5% 1/6W
Q4	8-729-102-14	2SD1021-F	R28	1-214-584-00	METAL 13K 1% 1/8W
Q5	8-729-102-14	2SD1021-F	R29	1-247-875-00	CARBON 68K 5% 1/6W
Q6	8-729-102-14	2SD1021-F	R30	1-247-783-00	CARBON 10 5% 1/6W
Q7	8-729-102-14	2SD1021-F	R31	1-214-593-00	METAL 33K 1% 1/8W
Q8	8-729-218-42	2SK184-Y	R32	1-214-583-00	METAL 12K 1% 1/8W
Q9	8-729-102-14	2SD1021-F	R33	1-247-883-00	CARBON 150K 5% 1/6W
Q10	8-729-306-72	2SD667A-C	R34	1-247-879-00	CARBON 100K 5% 1/6W
Q11	8-729-364-72	2SB647-C	R35	1-247-875-00	CARBON 68K 5% 1/6W
Q12	8-729-306-72	2SD667A-C	R36	1-214-586-00	METAL 16K 1% 1/8W
Q13	8-729-364-72	2SB647-C	R37	1-214-557-00	METAL 1K 1% 1/8W
Q14	8-729-102-14	2SD1021-F	R38	1-212-857-00	FUSIBLE 10 5% 1/4W (NONFLAMMABLE)
Q15	8-729-102-14	2SD1021-F	R39	1-247-783-00	CARBON 10 5% 1/6W
R1	1-247-879-00	CARBON 100K 5% 1/6W	R40	1-247-903-00	CARBON 1M 5% 1/6W
R2	1-214-581-00	METAL 10K 1% 1/8W	R41	1-247-887-00	CARBON 220K 5% 1/6W
R3	1-214-581-00	METAL 10K 1% 1/8W	R42	1-247-867-00	CARBON 33K 5% 1/6W
R4	1-214-581-00	METAL 10K 1% 1/8W	R43	1-214-561-00	METAL 1.5K 1% 1/8W
R5	1-214-581-00	METAL 10K 1% 1/8W	R44	1-214-583-00	METAL 12K 1% 1/8W
R6	1-247-879-00	CARBON 100K 5% 1/6W	R45	1-247-896-00	CARBON 510K 5% 1/6W
R7	1-214-581-00	METAL 10K 1% 1/8W	R46	1-214-557-00	METAL 1K 1% 1/8W
R8	1-214-581-00	METAL 10K 1% 1/8W	R47	1-247-875-00	CARBON 68K 5% 1/6W
R9	1-214-581-00	METAL 10K 1% 1/8W	R48	1-214-584-00	METAL 13K 1% 1/8W
R10	1-214-581-00	METAL 10K 1% 1/8W	R49	1-247-875-00	CARBON 68K 5% 1/6W
R11	1-247-875-00	CARBON 68K 5% 1/6W	R50	1-247-783-00	CARBON 10 5% 1/6W
R12	1-214-586-00	METAL 16K 1% 1/8W	R51	1-214-593-00	METAL 33K 1% 1/8W
R13	1-214-557-00	METAL 1K 1% 1/8W	R52	1-214-583-00	METAL 12K 1% 1/8W
R14	1-212-857-00	FUSIBLE 10 5% 1/4W (NONFLAMMABLE)	R53	1-247-883-00	CARBON 150K 5% 1/6W
R15	1-247-783-00	CARBON 10 5% 1/6W	R54	1-214-517-00	METAL 22 1% 1/8W
R16	1-247-903-00	CARBON 1M 5% 1/6W	R55	1-214-517-00	METAL 22 1% 1/8W
R17	1-247-887-00	CARBON 220K 5% 1/6W			
R18	1-247-867-00	CARBON 33K 5% 1/6W			
R19	1-214-561-00	METAL 1.5K 1% 1/8W			
R20	1-214-583-00	METAL 12K 1% 1/8W			

Ref.No.	Part No.	Description
(MSM-4 BOARD)		
R56	1-247-872-00	CARBON 51K 5% 1/6W
R57	1-247-872-00	CARBON 51K 5% 1/6W
R58	1-214-578-00	METAL 7.5K 1% 1/8W
R59	1-214-578-00	METAL 7.5K 1% 1/8W
R60	1-214-573-00	METAL 4.7K 1% 1/8W
R61	1-214-573-00	METAL 4.7K 1% 1/8W
R62	1-214-517-00	METAL 22 1% 1/8W
R63	1-214-517-00	METAL 22 1% 1/8W
R64	1-247-872-00	CARBON 51K 5% 1/6W
R65	1-247-872-00	CARBON 51K 5% 1/6W
R66	1-214-578-00	METAL 7.5K 1% 1/8W
R67	1-214-578-00	METAL 7.5K 1% 1/8W
R68	1-214-573-00	METAL 4.7K 1% 1/8W
R69	1-214-517-00	METAL 22 1% 1/8W
R70	1-214-517-00	METAL 22 1% 1/8W
R71	1-247-872-00	CARBON 51K 5% 1/6W
R72	1-247-872-00	CARBON 51K 5% 1/6W
R73	1-214-578-00	METAL 7.5K 1% 1/8W
R74	1-214-578-00	METAL 7.5K 1% 1/8W
R75	1-214-573-00	METAL 4.7K 1% 1/8W
R76	1-214-573-00	METAL 4.7K 1% 1/8W
R77	1-247-879-00	CARBON 100K 5% 1/6W
R78	1-212-849-00	FUSIBLE 4.7 5% 1/4W (NONFLAMMABLE)
R79	1-212-849-00	FUSIBLE 4.7 5% 1/4W (NONFLAMMABLE)
R80	1-247-831-00	CARBON 1K 5% 1/6W
R81	1-247-879-00	CARBON 100K 5% 1/6W
R82	1-214-558-00	METAL 1.1K 1% 1/8W
R83	1-214-586-00	METAL 16K 1% 1/8W
R84	1-247-852-00	CARBON 7.5K 5% 1/6W
R85	1-246-432-00	CARBON 20 5% 1/4W
R86	1-246-432-00	CARBON 20 5% 1/4W
R87	1-247-852-00	CARBON 7.5K 5% 1/6W
R88	1-247-831-00	CARBON 1K 5% 1/6W
R89	1-247-879-00	CARBON 100K 5% 1/6W

Ref.No.	Part No.	Description
(MSM-4 BOARD)		
R90	1-214-558-00	METAL 1.1K 1% 1/8W
R91	1-214-586-00	METAL 16K 1% 1/8W
R92	1-247-852-00	CARBON 7.5K 5% 1/6W
R93	1-246-432-00	CARBON 20 5% 1/4W
R94	1-246-432-00	CARBON 22 5% 1/4W
R95	1-247-852-00	CARBON 7.5K 5% 1/6W
R96	1-247-831-00	CARBON 1K 5% 1/6W
R97	1-247-831-00	CARBON 1K 5% 1/6W
R98	1-247-879-00	CARBON 100K 5% 1/6W
R99	1-247-879-00	CARBON 100K 5% 1/6W
R100	1-214-569-00	METAL 3.3K 1% 1/8W
R101	1-214-592-00	METAL 30K 1% 1/8W
R102	1-247-790-00	CARBON 20 5% 1/6W
R103	1-247-879-00	CARBON 100K 5% 1/6W
R104	1-247-831-00	CARBON 1K 5% 1/6W
R105	1-247-879-00	CARBON 100K 5% 1/6W
R106	1-247-879-00	CARBON 100K 5% 1/6W
R107	1-247-831-00	CARBON 1K 5% 1/6W
R108	1-214-569-00	METAL 3.3K 1% 1/8W
R109	1-214-592-00	METAL 30K 1% 1/8W
R110	1-247-879-00	CARBON 100K 5% 1/6W
R111	1-247-790-00	CARBON 20 5% 1/6W
R112	1-214-588-00	METAL 20K 1% 1/8W
R113	1-214-588-00	METAL 20K 1% 1/8W
R114	1-214-588-00	METAL 20K 1% 1/8W
R115	1-214-573-00	METAL 4.7K 1% 1/8W
R116	1-247-879-00	CARBON 100K 5% 1/6W
R117	1-214-581-00	METAL 10K 1% 1/8W

Note: The parts marked with (\*) or (\*\*) are applicable to units with the following Serial Numbers.  
 (\*1); Serial No. 10041 to 10100 (J)      (\*\*) ; Serial No. 10101 and higher (J)  
       Serial No. 20081 to 20110 (U)      Serial No. 20111 and higher (U)  
       Serial No. 50011 to 50040 (AEP)     Serial No. 50041 and higher (AEP)

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
MT-8 BOARD (VU model)			(MT-8 BOARD)		
	A-4360-050-A	MOUNTED PCB,MT-8	Q6	8-729-102-14	2SD1021-F
			Q7	8-729-218-42	2SK184-Y
C1	1-124-233-00	ELECT 10 20% 16V	Q8	8-729-181-13	2SB811-H
C2	1-123-647-00	ELECT 47 20% 6.3V	Q9	8-729-102-14	2SD1021-F
C3	1-124-233-00	ELECT 10 20% 16V	R1	1-214-581-00	METAL 10K 1% 1/8W
C4	1-123-647-00	ELECT 47 20% 6.3V	R2	1-214-589-00	METAL 22K 1% 1/8W
C5	1-123-485-00	ELECT 220 20% 16V	R3	1-214-581-00	METAL 10K 1% 1/8W
			R4	1-214-582-00	METAL 11K 1% 1/8W
C6	1-123-485-00	ELECT 220 20% 16V	R5	1-247-882-00	CARBON 130K 5% 1/6W
C7	1-124-243-00	ELECT 2.2 20% 35V			
C8	1-124-233-00	ELECT 10 20% 16V	R6	1-214-563-00	METAL 1.8K 1% 1/8W
C9	1-124-231-00	ELECT 4.7 20% 16V	R7	1-247-879-00	CARBON 100K 5% 1/6W
C10	1-124-243-00	ELECT 2.2 20% 16V	R8	1-247-848-00	CARBON 5.1K 5% 1/6W
			R9	1-247-855-00	CARBON 10K 5% 1/6W
C11	1-124-233-00	ELECT 10 20% 16V	R10	1-214-581-00	METAL 10K 1% 1/8W
C12	1-124-231-00	ELECT 4.7 20% 16V			
			R11	1-214-589-00	METAL 22K 1% 1/8W
D1	8-719-911-19	ISS119	R12	1-214-581-00	METAL 10K 1% 1/8W
D2	8-719-911-19	ISS119	R13	1-214-582-00	METAL 11K 1% 1/8W
D3	8-719-910-63	HZ6A3L (*1)	R14	1-247-882-00	CARBON 130K 5% 1/6W
D4	8-719-911-19	ISS119	R15	1-214-563-00	METAL 1.8K 1% 1/8W
D5	8-719-911-19	ISS119			
			R16	1-247-879-00	CARBON 100K 5% 1/6W
D6	8-719-910-63	HZ6A3L (*1)	R17	1-247-848-00	CARBON 5.1K 5% 1/6W
D7	8-719-911-19	ISS119	R18	1-247-855-00	CARBON 10K 5% 1/6W
D8	8-719-911-19	ISS119			
D9	8-719-911-19	ISS119	R19	1-212-869-00	FUSIBLE 33 5% 1/4W (NONFLAMMABLE)
D10	8-719-911-19	ISS119			
D11	8-719-911-19	ISS119			
D12	8-719-911-19	ISS119	R20	1-212-869-00	FUSIBLE 33 5% 1/4W (NONFLAMMABLE)
D13	8-719-911-19	ISS119			
D14	8-719-911-19	ISS119			
D15	8-719-912-00	MV-12N			
D16	8-719-912-00	MV-12N	R21	1-247-879-00	CARBON 100K 5% 1/6W
			R22	1-214-581-00	METAL 10K 1% 1/8W
IC1	8-759-700-40	NJM4560S	R23	1-214-589-00	METAL 22K 1% 1/8W
IC2	8-759-700-40	NJM4560S	R24	1-247-879-00	CARBON 100K 5% 1/6W
IC3	8-759-700-40	NJM4560S	R25	1-247-879-00	CARBON 100K 5% 1/6W
IC4	8-759-911-04	TL068CLP (*1)			
IC5	8-759-911-04	TL068CLP (*1)	R26	1-247-879-00	CARBON 100K 5% 1/6W
			R27	1-247-831-00	CARBON 1K 5% 1/6W
Q1	8-729-102-14	2SD1021-F	R28	1-247-839-00	CARBON 2.2K 5% 1/6W
Q2	8-729-218-42	2SK184-Y (**)	R29	1-247-879-00	CARBON 100K 5% 1/6W
Q3	8-729-102-14	2SD1021-F	R30	1-214-570-00	METAL 3.6K 1% 1/8W
Q4	8-729-218-42	2SK184-Y (**)			
Q5	8-729-218-42	2SK184-Y			

Note: The parts marked with (\*1) or (\*2) are applicable to units with the following Serial Numbers.

(\*1); Serial No. 10041 to 10100 (J)

(\*2); Serial No. 10101 and higher (J)

Serial No. 20081 to 20110 (U)

Serial No. 20111 and higher (U)

Serial No. 50011 to 50040 (AEP)

Serial No. 50041 and higher (AEP)

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
<b>(MT-8 BOARD)</b>			<b>(MT-9 BOARD)</b>		
R31	1-247-896-00	CARBON 510K 5% 1/6W	C11	1-124-231-00	ELECT 4.7 20% 16V
R32	1-214-560-00	METAL 1.5K 1% 1/8W	C12	1-102-114-00	CERAMIC 470PF 10% 50V
R33	1-247-826-00	CARBON 620 5% 1/6W	C13	1-124-243-00	ELECT 2.2 20% 35V
R34	1-214-573-00	METAL 4.7K 1% 1/8W	C14	1-123-485-00	ELECT 220 20% 16V
R35	1-214-557-00	METAL 1K 1% 1/8W	C15	1-123-485-00	ELECT 220 20% 16V
R36	1-247-879-00	CARBON 100K 5% 1/6W	C16	1-124-243-00	ELECT 2.2 20% 35V
R37	1-247-903-00	CARBON 1M 5% 1/6W	C17	1-124-243-00	ELECT 2.2 20% 35V
R38	1-247-866-00	CARBON 30K 5% 1/6W	C18	1-124-243-00	ELECT 2.2 20% 35V
R39	1-247-879-00	CARBON 100K 5% 1/6W	C19	1-130-483-00	MYLAR 0.01 5% 50V
R40	1-247-873-00	CARBON 56K 5% 1/6W	C20	1-130-483-00	MYLAR 0.01 5% 50V
R41	1-247-879-00	CARBON 100K 5% 1/6W	C21	1-130-483-00	MYLAR 0.01 5% 50V
R43	1-247-879-00	CARBON 100K 5% 1/6W	C22	1-130-483-00	MYLAR 0.01 5% 50V
R44	1-247-803-00	CARBON 68 5% 1/6W	C23	1-102-114-00	CERAMIC 470PF 10% 50V
R45	1-247-879-00	CARBON 100K 5% 1/6W	C24	1-102-114-00	CERAMIC 470PF 10% 50V
R46	1-247-803-00	CARBON 68 5% 1/6W	C25	1-102-114-00	CERAMIC 470PF 10% 50V
RV1	1-226-775-12	VAR,METAL GLAZE 100K (*1)	CNP1	1-560-365-21	POST HEADER,1LG 4P
	1-228-462-11	VAR,CERMET 100K (*2)	CNP2	1-560-362-21	POST HEADER,1LG 10P
RV2	1-226-775-12	VAR,METAL GLAZE 100K (*1)	CNP3	1-560-361-21	POST HEADER,1LG 8P
	1-228-462-11	VAR,CERMET 100K (*2)	CNP4	1-560-361-21	POST HEADER,1LG 8P
RV3	1-226-770-12	VAR,METAL GLAZE 470	CNP5	1-560-361-21	POST HEADER,1LG 8P
RV4	1-226-701-12	VAR,METAL GLAZE 220	D1	8-719-911-19	1SS119
RV5	1-228-460-11	VAR,CERMET 20K (*2)	D2	8-719-911-19	1SS119
RV6	1-228-460-11	VAR,CERMET 20K (*2)	D3	8-719-911-19	1SS119
			D4	8-719-911-19	1SS119
			D5	8-719-910-62	HZ6A2L
			D6	8-719-911-19	1SS119
			D7	8-719-911-19	1SS119
			D8	8-719-911-19	1SS119
			D9	8-719-911-19	1SS119
			D10	8-719-910-62	HZ6A2L
			D11	8-719-911-19	1SS119
			D12	8-719-911-19	1SS119
			D13	8-719-911-19	1SS119
			D14	8-719-911-19	1SS119
			D15	8-719-911-19	1SS119
			D16	8-719-910-62	HZ6A2L
			D17	8-719-911-19	1SS119
			IC1	8-759-909-21	LM3914N
			IC2	8-759-909-21	LM3914N
			IC3	8-759-909-21	LM3914N
			IC4	8-759-909-21	LM3914N
			IC5	8-759-909-21	LM3914N
<b>MT-9 BOARD (PK model)</b>					
	A-4380-051-A	MOUNTED PCB,MT-9(PK ONLY)			
C1	1-124-233-00	ELECT 10 20% 16V			
C2	1-124-231-00	ELECT 4.7 20% 16V			
C3	1-102-114-00	CERAMIC 470PF 10% 50V			
C4	1-124-233-00	ELECT 10 20% 16V			
C5	1-124-231-00	ELECT 4.7 20% 16V			
C6	1-102-114-00	CERAMIC 470PF 10% 50V			
C7	1-124-233-00	ELECT 10 20% 16V			
C8	1-124-233-00	ELECT 10 20% 16V			
C9	1-124-233-00	ELECT 10 20% 16V			
C10	1-124-243-00	ELECT 2.2 20% 35V			



Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
(MT-9 BOARD)			(MT-9 BOARD)		
IC6	8-759-909-21	LM3914N	R17	1-214-581-00	METAL 10K 1% 1/8W
IC7	8-759-909-21	LM3914N	R18	1-214-567-00	METAL 2.7K 1% 1/8W
IC8	8-759-909-21	LM3914N	R19	1-214-574-00	METAL 5.1K 1% 1/8W
IC9	8-759-700-40	NJM4560S	R20	1-247-831-00	CARBON 1K 5% 1/6W
IC10	8-759-700-40	NJM4560S	R21	1-247-879-00	CARBON 100K 5% 1/6W
IC11	8-759-700-40	NJM4560S	R22	1-214-573-00	METAL 4.7K 1% 1/8W
IC12	8-759-700-40	NJM4560S	R23	1-214-568-00	METAL 3K 1% 1/8W
IC13	8-759-700-40	NJM4560S	R24	1-214-561-00	METAL 1.5K 1% 1/8W
IC14	8-759-700-40	NJM4560S	R25	1-214-589-00	METAL 22K 1% 1/8W
IC15	8-759-700-40	NJM4560S	R26	1-214-589-00	METAL 22K 1% 1/8W
IC16	8-759-700-40	NJM4560S	R27	1-214-589-00	METAL 22K 1% 1/8W
IC17	8-759-700-40	NJM4560S	R28	1-214-582-00	METAL 11K 1% 1/8W
IC18	8-759-700-40	NJM4560S	R29	1-214-589-00	METAL 22K 1% 1/8W
Q2	8-729-679-82	2SA798-G	R30	1-214-557-00	METAL 1K 1% 1/8W
Q3	8-729-102-14	2SD1021-F	R31	1-247-884-00	CARBON 160K 5% 1/6W
Q5	8-729-679-82	2SA798-G	R33	1-214-574-00	METAL 5.1K 1% 1/8W
Q6	8-729-102-14	2SD1021-F	R34	1-214-574-00	METAL 5.1K 1% 1/8W
Q7	8-729-218-42	2SK184-Y	R35	1-214-526-00	METAL 51 1% 1/8W
Q9	8-729-679-82	2SA798-G	R36	1-247-867-00	CARBON 33K 5% 1/6W
Q10	8-729-102-14	2SD1021-F	R37	1-214-574-00	METAL 5.1K 1% 1/8W
Q11	8-729-181-13	2S8811-H	R38	1-247-848-00	CARBON 5.1K 5% 1/6W
Q12	8-729-102-14	2SD1021-F	R39	1-247-848-00	CARBON 5.1K 5% 1/6W
Q13	8-729-218-42	2SK184-Y	R40	1-214-550-00	METAL 510 1% 1/8W
R1	1-214-589-00	METAL 22K 1% 1/8W	R41	1-214-581-00	METAL 10K 1% 1/8W
R2	1-214-589-00	METAL 22K 1% 1/8W	R42	1-214-567-00	METAL 2.7K 1% 1/8W
R3	1-214-589-00	METAL 22K 1% 1/8W	R43	1-214-574-00	METAL 5.1K 1% 1/8W
R4	1-214-582-00	METAL 11K 1% 1/8W	R44	1-247-831-00	CARBON 1K 5% 1/6W
R5	1-214-589-00	METAL 22K 1% 1/8W	R45	1-247-879-00	CARBON 100K 5% 1/6W
R6	1-214-557-00	METAL 1K 1% 1/8W	R46	1-214-573-00	METAL 4.7K 1% 1/8W
R7	1-247-884-00	CARBON 160K 5% 1/6W	R47	1-214-568-00	METAL 3K 1% 1/8W
R9	1-214-574-00	METAL 5.1K 1% 1/8W	R48	1-214-561-00	METAL 1.5K 1% 1/8W
R10	1-214-574-00	METAL 5.1K 1% 1/8W	R49	1-247-879-00	CARBON 100K 5% 1/6W
R11	1-214-526-00	METAL 51 1% 1/8W	R50	1-247-879-00	CARBON 100K 5% 1/6W
R12	1-247-867-00	CARBON 33K 5% 1/6W	R51	1-214-581-00	METAL 10K 1% 1/8W
R13	1-214-574-00	METAL 5.1K 1% 1/8W	R52	1-214-589-00	METAL 22K 1% 1/8W
R14	1-247-848-00	CARBON 5.1K 5% 1/6W	R53	1-247-879-00	CARBON 100K 5% 1/6W
R15	1-247-848-00	CARBON 5.1K 5% 1/6W	R54	1-247-879-00	CARBON 100K 5% 1/6W
R16	1-214-550-00	METAL 510 1% 1/8W	R55	1-214-589-00	METAL 22K 1% 1/8W
			R56	1-214-589-00	METAL 22K 1% 1/8W
			R57	1-214-582-00	METAL 11K 1% 1/8W



Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
(MT-9 BOARD)			(MT-9 BOARD)		
R58	1-214-589-00	METAL 22K 1% 1/8W	S1	1-554-774-11	SWITCH, TOGGLE
R59	1-214-589-00	METAL 22K 1% 1/8W	S2	1-554-774-11	SWITCH, TOGGLE
R60	1-214-557-00	METAL 1K 1% 1/8W	S3	1-554-780-11	SWITCH, PUSH (3 KEY)
R61	1-247-884-00	CARBON 160K 5% 1/6W	TH1	1-800-200-00	THERMISTOR 5-3K
R63	1-214-574-00	METAL 5.1K 1% 1/8W	TH2	1-800-200-00	THERMISTOR 5-3K
R64	1-214-574-00	METAL 5.1K 1% 1/8W	TH3	1-800-200-00	THERMISTOR 5-3K
R65	1-214-526-00	METAL 51 1% 1/8W			
R66	1-247-867-00	CARBON 33K 5% 1/6W			
R67	1-214-574-00	METAL 5.1K 1% 1/8W			
R68	1-247-848-00	CARBON 5.1K 5% 1/6W			
R69	1-247-848-00	CARBON 5.1K 5% 1/6W			
R70	1-214-576-00	METAL 6.2K 1% 1/8W			
R71	1-214-565-00	METAL 2.2K 1% 1/8W			
R72	1-214-550-00	METAL 510 1% 1/8W			
R73	1-214-570-00	METAL 3.6K 1% 1/8W			
R74	1-247-831-00	CARBON 1K 5% 1/6W			
R75	1-247-879-00	CARBON 100K 5% 1/6W			
R76	1-214-569-00	METAL 3.3K 1% 1/8W			
R77	1-214-562-00	METAL 1.6K 1% 1/8W			
R78	1-247-866-00	CARBON 30K 5% 1/6W			
R79	1-247-903-00	CARBON 1M 5% 1/6W			
R80	1-247-873-00	CARBON 56K 5% 1/6W			
R81	1-247-873-00	CARBON 56K 5% 1/6W			
R82	1-247-879-00	CARBON 100K 5% 1/6W			
R83	1-212-857-00	FUSIBLE 10 5% 1/4W (NONFLAMMABLE)			
R84	1-212-857-00	FUSIBLE 10 5% 1/4W (NONFLAMMABLE)			
R85	1-247-819-00	CARBON 330 5% 1/6W			
R86	1-247-819-00	CARBON 330 5% 1/6W			
R87	1-247-898-00	CARBON 620K 5% 1/6W			
R88	1-247-898-00	CARBON 620K 5% 1/6W			
R89	1-247-898-00	CARBON 620K 5% 1/6W			
RV1	1-226-773-12	VAR, METAL GLAZE 22K			
RV2	1-226-773-12	VAR, METAL GLAZE 22K			
RV3	1-226-773-12	VAR, METAL GLAZE 22K			
RV4	1-226-773-12	VAR, METAL GLAZE 22K			
RV5	1-226-773-12	VAR, METAL GLAZE 22K			
RV6	1-226-773-12	VAR, METAL GLAZE 22K			
			PGA-1 BOARD		
			A-4385-161-A		COMPLETE PCB, PAG-1
			C1	1-124-233-00	ELECT 10 20% 16V
			C2	1-102-960-00	CERAMIC 24PF 5% 50V
			C3	1-102-965-00	CERAMIC 39PF 5% 50V
			C4	1-130-483-00	MYLAR 0.01 5% 50V
			C5	1-102-965-00	CERAMIC 39PF 5% 50V
			C6	1-130-483-00	MYLAR 0.01 5% 50V
			C7	1-124-475-11	ELECT 470 20% 16V
			C8	1-124-475-11	ELECT 470 20% 16V
			C9	1-124-233-00	ELECT 10 20% 16V
			C10	1-102-960-00	CERAMIC 24PF 5% 50V
			C11	1-102-965-00	CERAMIC 39PF 5% 50V
			C12	1-102-965-00	CERAMIC 39PF 5% 50V
			C13	1-130-483-00	MYLAR 0.01 5% 50V
			C14	1-130-483-00	MYLAR 0.01 5% 50V
			C15	1-124-475-11	ELECT 470 20% 16V
			C16	1-124-475-11	ELECT 470 20% 16V
			C17	1-124-233-00	ELECT 10 20% 16V
			C18	1-102-960-00	CERAMIC 24PF 5% 50V
			C19	1-102-965-00	CERAMIC 39PF 5% 50V
			C20	1-102-965-00	CERAMIC 39PF 5% 50V

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
(PGA-1 BOARD)			(PGA-1 BOARD)		
C21	1-130-483-00	MYLAR 0.01 5% 50V	C62	1-124-475-11	ELECT 470 20% 16V
C22	1-130-483-00	MYLAR 0.01 5% 50V	C63	1-124-475-11	ELECT 470 20% 16V
C23	1-124-475-11	ELECT 470 20% 16V	CNP1	1-560-361-21	POST HEADER, 1LG 8P
C24	1-124-475-11	ELECT 470 20% 16V	CNP2	1-560-357-21	POST HEADER, 1LG 3P
C25	1-124-233-00	ELECT 10 20% 16V	CNP3	1-560-357-21	POST HEADER, 1LG 3P
C26	1-102-960-00	CERAMIC 24PF 5% 50V	CNP4	1-560-357-21	POST HEADER, 1LG 3P
C27	1-102-965-00	CERAMIC 39PF 5% 50V	CNP5	1-560-357-21	POST HEADER, 1LG 3P
C28	1-102-965-00	CERAMIC 39PF 5% 50V	CNP6	1-560-360-21	POST HEADER, 1LG 6P
C29	1-130-483-00	MYLAR 0.01 5% 50V	CNP7	1-560-357-21	POST HEADER, 1LG 3P
C30	1-130-483-00	MYLAR 0.01 5% 50V	CNP8	1-560-357-21	POST HEADER, 1LG 3P
C31	1-124-475-11	ELECT 470 20% 16V	CNP9	1-560-357-21	POST HEADER, 1LG 3P
C32	1-124-475-11	ELECT 470 20% 16V	CNP10	1-560-361-21	POST HEADER, 1LG 8P
C33	1-124-233-00	ELECT 10 20% 16V	CNP11	1-560-361-21	POST HEADER, 1LG 8P
C34	1-102-950-00	CERAMIC 13PF 5% 50V	CNP12	1-560-618-21	POST HEADER, 1LG 7P
C35	1-102-958-00	CERAMIC 20PF 5% 50V	CNP13	1-560-363-21	POST HEADER, 1LG 12P
C36	1-102-958-00	CERAMIC 20PF 5% 50V	CNP14	1-560-361-21	POST HEADER, 1LG 8P
C37	1-130-483-00	MYLAR 0.01 5% 50V	D1	8-719-911-19	1SS119
C38	1-130-483-00	MYLAR 0.01 5% 50V	D2	8-719-910-11	HZ11A1L
C39	1-124-475-11	ELECT 470 20% 16V	D3	8-719-911-19	1SS119
C40	1-124-475-11	ELECT 470 20% 16V	D4	8-719-911-19	1SS119
C41	1-124-233-00	ELECT 10 20% 16V	D5	8-719-911-19	1SS119
C42	1-102-950-00	CERAMIC 13PF 5% 50V	IC1	8-757-700-00	CX-770
C43	1-102-958-00	CERAMIC 20PF 5% 50V	IC2	8-759-700-40	NJM4560S
C44	1-102-958-00	CERAMIC 20PF 5% 50V	IC3	8-759-700-40	NJM4560S
C45	1-130-483-00	MYLAR 0.01 5% 50V	IC4	8-759-700-74	NJM4556S
C46	1-130-483-00	MYLAR 0.01 5% 50V	IC5	8-759-700-40	NJM4560S
C47	1-124-475-11	ELECT 470 20% 16V	IC6	8-759-700-40	NJM4560S
C48	1-124-475-11	ELECT 470 20% 16V	IC7	8-759-700-74	NJM4556S
C49	1-124-233-00	ELECT 10 20% 16V	IC8	8-757-700-00	CX-770
C50	1-102-950-00	CERAMIC 13PF 5% 50V	IC9	8-759-700-40	NJM4560S
C51	1-102-958-00	CERAMIC 39PF 5% 50V	IC10	8-759-700-40	NJM4560S
C52	1-102-958-00	CERAMIC 39PF 5% 50V	IC11	8-759-700-74	NJM4556S
C53	1-130-483-00	MYLAR 0.01 5% 50V	IC12	8-759-700-40	NJM4560S
C54	1-130-483-00	MYLAR 0.01 5% 50V	IC13	8-759-700-40	NJM4560S
C55	1-124-475-11	ELECT 470 20% 16V	IC14	8-759-700-74	NJM4556S
C56	1-124-475-11	ELECT 470 20% 16V	IC15	8-757-700-00	CX-770
C57	1-123-493-00	ELECT 47 20% 25V	IC16	8-759-700-40	NJM4560S
C58	1-123-328-00	ELECT 4.7 20% 25V	IC17	8-759-700-40	NJM4560S
C59	1-123-330-00	ELECT 22 20% 25V	IC18	8-759-700-74	NJM4556S
C60	1-130-483-00	MYLAR 0.01 5% 50V	IC19	8-759-700-40	NJM4560S
C61	1-123-484-00	ELECT 100 20% 16V	IC20	8-759-700-40	NJM4560S

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
(PGA-1 BOARD)			(PGA-1 BOARD)		
IC21	8-759-700-74	NJM45565	R26	1-214-576-00	METAL 6.2K 1% 1/8W
IC22	8-757-700-00	CX-770	R27	1-214-575-00	METAL 5.6K 1% 1/8W
IC23	8-759-700-40	NJM45605	R28	1-214-590-00	METAL 24K 1% 1/6W
IC24	8-759-700-40	NJM45605	R29	1-247-879-00	CARBON 100K 5% 1/6W
IC25	8-759-700-74	NJM45565	R30	1-214-579-00	METAL 8.2K 1% 1/8W
Q1	8-729-181-13	258811-H	R31	1-214-579-00	METAL 8.2K 1% 1/8W
Q2	8-729-201-04	25C2878	R32	1-214-581-00	METAL 10K 1% 1/8W
Q3	8-729-201-04	25C2878	R33	1-214-581-00	METAL 10K 1% 1/8W
Q4	8-729-201-04	25C2878	R34	1-214-583-00	METAL 12K 1% 1/8W
Q5	8-729-201-04	25C2878	R35	1-214-583-00	METAL 12K 1% 1/8W
Q6	8-729-201-04	25C2878	R36	1-214-583-00	METAL 12K 1% 1/8W
Q7	8-729-201-04	25C2878	R37	1-214-583-00	METAL 12K 1% 1/8W
Q8	8-729-201-04	25C2878	R38	1-214-574-00	METAL 5.1K 1% 1/8W
R1	1-247-884-00	CARBON 160K 5% 1/6W	R39	1-214-574-00	METAL 5.1K 1% 1/8W
R2	1-214-576-00	METAL 6.2K 1% 1/8W	R40	1-214-574-00	METAL 5.1K 1% 1/8W
R3	1-214-575-00	METAL 5.6K 1% 1/8W	R41	1-214-537-00	METAL 150 1% 1/8W *A
R4	1-214-590-00	METAL 24K 1% 1/6W		1-214-536-00	METAL 130 1% 1/8W *B
R5	1-247-879-00	CARBON 100K 5% 1/6W	R42	1-214-537-00	METAL 150 1% 1/8W *A
R6	1-247-879-00	CARBON 100K 5% 1/6W		1-214-536-00	METAL 130 1% 1/8W *B
R7	1-247-879-00	CARBON 100K 5% 1/6W	R43	1-214-574-00	METAL 5.1K 1% 1/8W
R8	1-247-879-00	CARBON 100K 5% 1/6W	R44	1-247-879-00	CARBON 100K 5% 1/6W *A
R9	1-214-579-00	METAL 8.2K 1% 1/8W		1-247-843-00	CARBON 3.3K 5% 1/6W *B
R10	1-214-579-00	METAL 8.2K 1% 1/8W	R45	1-247-879-00	CARBON 100K 5% 1/6W *A
R11	1-214-581-00	METAL 10K 1% 1/8W		1-247-843-00	CARBON 3.3K 5% 1/6W *B
R12	1-214-581-00	METAL 10K 1% 1/8W	R46	1-247-884-00	CARBON 160K 5% 1/6W
R13	1-214-583-00	METAL 12K 1% 1/8W	R47	1-214-576-00	METAL 6.2K 1% 1/8W
R14	1-214-583-00	METAL 12K 1% 1/8W	R48	1-214-575-00	METAL 5.6K 1% 1/8W
R15	1-214-583-00	METAL 12K 1% 1/8W	R49	1-214-590-00	METAL 24K 1% 1/6W
R16	1-214-583-00	METAL 12K 1% 1/8W	R50	1-247-879-00	CARBON 100K 5% 1/6W
R17	1-214-574-00	METAL 5.1K 1% 1/8W	R51	1-247-879-00	CARBON 100K 5% 1/6W
R18	1-214-574-00	METAL 5.1K 1% 1/8W	R52	1-247-879-00	CARBON 100K 5% 1/6W
R19	1-214-574-00	METAL 5.1K 1% 1/8W	R53	1-247-879-00	CARBON 100K 5% 1/6W
R20	1-214-537-00	METAL 150 1% 1/8W *A	R54	1-214-579-00	METAL 8.2K 1% 1/8W
	1-214-536-00	METAL 130 1% 1/8W *B	R55	1-214-579-00	METAL 8.2K 1% 1/8W
R21	1-214-537-00	METAL 150 1% 1/8W *A	R56	1-214-581-00	METAL 10K 1% 1/8W
	1-214-536-00	METAL 130 1% 1/8W *B	R57	1-214-581-00	METAL 10K 1% 1/8W
R22	1-214-574-00	METAL 5.1K 1% 1/8W	R58	1-214-583-00	METAL 12K 1% 1/8W
R23	1-247-879-00	CARBON 100K 5% 1/6W *A	R59	1-214-583-00	METAL 12K 1% 1/8W
	1-247-843-00	CARBON 3.3K 5% 1/6W *B	R60	1-214-583-00	METAL 12K 1% 1/8W
R24	1-247-879-00	CARBON 100K 5% 1/6W *A	R61	1-214-583-00	METAL 12K 1% 1/8W
	1-247-843-00	CARBON 3.3K 5% 1/6W *B	R62	1-214-574-00	METAL 5.1K 1% 1/8W
R25	1-247-884-00	CARBON 160K 5% 1/6W	R63	1-214-574-00	METAL 5.1K 1% 1/8W
			R64	1-214-574-00	METAL 5.1K 1% 1/8W
			R65	1-214-537-00	METAL 150 1% 1/8W *A
				1-214-536-00	METAL 130 1% 1/8W *B

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
(PGA-1 BOARD)			(PGA-1 BOARD)		
R66	1-214-537-00	METAL 150 1% 1/8W *A	R106	1-214-581-00	METAL 10K 1% 1/8W
	1-214-536-00	METAL 130 1% 1/8W *B	R107	1-214-581-00	METAL 10K 1% 1/8W
R67	1-214-574-00	METAL 5.1K 1% 1/8W	R108	1-214-581-00	METAL 10K 1% 1/8W
R68	1-247-879-00	CARBON 100K 5% 1/6W *A	R109	1-214-581-00	METAL 10K 1% 1/8W
	1-247-843-00	CARBON 3.3K 5% 1/6W *B	R110	1-214-537-00	METAL 150 1% 1/8W *A
R69	1-247-879-00	CARBON 100K 5% 1/6W *A		1-214-536-00	METAL 130 1% 1/8W *B
	1-247-843-00	CARBON 3.3K 5% 1/6W *B	R111	1-214-537-00	METAL 150 1% 1/8W *A
R70	1-247-884-00	CARBON 160K 5% 1/6W		1-214-536-00	METAL 130 1% 1/8W *B
R71	1-214-576-00	METAL 6.2K 1% 1/8W	R112	1-214-581-00	METAL 10K 1% 1/8W
R72	1-214-575-00	METAL 5.6K 1% 1/8W	R113	1-247-879-00	CARBON 100K 5% 1/6W *A
R73	1-214-590-00	METAL 24K 1% 1/8W		1-247-843-00	CARBON 3.3K 5% 1/6W *B
R74	1-247-879-00	CARBON 100K 5% 1/6W	R114	1-247-879-00	CARBON 100K 5% 1/6W *A
R75	1-214-579-00	METAL 8.2K 1% 1/8W		1-247-843-00	CARBON 3.3K 5% 1/6W *B
R76	1-214-579-00	METAL 8.2K 1% 1/8W	R115	1-247-884-00	CARBON 160K 5% 1/6W
R77	1-214-581-00	METAL 10K 1% 1/8W	R116	1-214-576-00	METAL 6.2K 1% 1/8W
R78	1-214-581-00	METAL 10K 1% 1/8W	R117	1-214-575-00	METAL 5.6K 1% 1/8W
R79	1-214-583-00	METAL 12K 1% 1/8W	R118	1-214-590-00	METAL 24K 1% 1/8W
R80	1-214-583-00	METAL 12K 1% 1/8W	R119	1-247-879-00	CARBON 100K 5% 1/6W
R81	1-214-583-00	METAL 12K 1% 1/8W	R120	1-214-567-00	METAL 2.7K 1% 1/8W
R82	1-214-583-00	METAL 12K 1% 1/8W	R121	1-214-589-00	METAL 22K 1% 1/8W
R83	1-214-574-00	METAL 5.1K 1% 1/8W	R122	1-214-581-00	METAL 10K 1% 1/8W
R84	1-214-574-00	METAL 5.1K 1% 1/8W	R123	1-214-581-00	METAL 10K 1% 1/8W
R85	1-214-574-00	METAL 5.1K 1% 1/8W	R124	1-214-581-00	METAL 10K 1% 1/8W
R86	1-214-537-00	METAL 150 1% 1/8W *A	R125	1-214-581-00	METAL 10K 1% 1/8W
	1-214-536-00	METAL 130 1% 1/8W *B	R126	1-214-581-00	METAL 10K 1% 1/8W
R87	1-214-537-00	METAL 150 1% 1/8W *A	R127	1-214-581-00	METAL 10K 1% 1/8W
	1-214-536-00	METAL 130 1% 1/8W *B	R128	1-214-581-00	METAL 10K 1% 1/8W
R88	1-214-574-00	METAL 5.1K 1% 1/8W	R129	1-214-581-00	METAL 10K 1% 1/8W
R89	1-247-879-00	CARBON 100K 5% 1/6W *A	R130	1-214-581-00	METAL 10K 1% 1/8W
	1-247-843-00	CARBON 3.3K 5% 1/6W *B	R131	1-214-537-00	METAL 150 1% 1/8W *A
R90	1-247-879-00	CARBON 100K 5% 1/6W *A		1-214-536-00	METAL 130 1% 1/8W *B
	1-247-843-00	CARBON 3.3K 5% 1/6W *B	R132	1-214-537-00	METAL 150 1% 1/8W *A
R91	1-247-884-00	CARBON 160K 5% 1/6W		1-214-536-00	METAL 130 1% 1/8W *B
R92	1-214-576-00	METAL 6.2K 1% 1/8W	R133	1-214-581-00	METAL 10K 1% 1/8W
R93	1-214-575-00	METAL 5.6K 1% 1/8W	R134	1-247-879-00	CARBON 100K 5% 1/6W *A
R94	1-214-590-00	METAL 24K 1% 1/8W		1-247-843-00	CARBON 3.3K 5% 1/6W *B
R95	1-247-879-00	CARBON 100K 5% 1/6W	R135	1-247-879-00	CARBON 100K 5% 1/6W *A
R96	1-247-879-00	CARBON 100K 5% 1/6W		1-247-843-00	CARBON 3.3K 5% 1/6W *B
R97	1-247-879-00	CARBON 100K 5% 1/6W	R136	1-247-884-00	CARBON 160K 5% 1/6W
R98	1-247-879-00	CARBON 100K 5% 1/6W	R137	1-214-576-00	METAL 6.2K 1% 1/8W
R99	1-214-567-00	METAL 2.7K 1% 1/8W	R138	1-214-575-00	METAL 5.6K 1% 1/8W
R100	1-214-589-00	METAL 22K 1% 1/8W	R139	1-214-590-00	METAL 24K 1% 1/8W
R101	1-214-581-00	METAL 10K 1% 1/8W	R140	1-247-879-00	CARBON 100K 5% 1/6W
R102	1-214-581-00	METAL 10K 1% 1/8W			
R103	1-214-581-00	METAL 10K 1% 1/8W			
R104	1-214-581-00	METAL 10K 1% 1/8W			
R105	1-214-581-00	METAL 10K 1% 1/8W			



Ref.No. Part No. Description

(PGA-1 BOARD)

R141 1-247-879-00 CARBON 100K 5% 1/6W  
 R142 1-247-879-00 CARBON 100K 5% 1/6W  
 R143 1-247-879-00 CARBON 100K 5% 1/6W  
 R144 1-214-567-00 METAL 2.7K 1% 1/8W  
 R145 1-214-589-00 METAL 22K 1% 1/8W

R146 1-214-581-00 METAL 10K 1% 1/8W  
 R147 1-214-581-00 METAL 10K 1% 1/8W  
 R148 1-214-581-00 METAL 10K 1% 1/8W  
 R149 1-214-581-00 METAL 10K 1% 1/8W  
 R150 1-214-581-00 METAL 10K 1% 1/8W

R151 1-214-581-00 METAL 10K 1% 1/8W  
 R152 1-214-581-00 METAL 10K 1% 1/8W  
 R153 1-214-581-00 METAL 10K 1% 1/8W  
 R154 1-214-581-00 METAL 10K 1% 1/8W  
 R155 1-214-537-00 METAL 150 1% 1/8W \*A  
 1-214-536-00 METAL 130 1% 1/8W \*B

R156 1-214-537-00 METAL 150 1% 1/8W \*A  
 1-214-536-00 METAL 130 1% 1/8W \*B

R157 1-214-581-00 METAL 10K 1% 1/8W  
 R158 1-247-879-00 CARBON 100K 5% 1/6W \*A  
 1-247-843-00 CARBON 3.3K 5% 1/6W \*B  
 R159 1-247-879-00 CARBON 100K 5% 1/6W \*A  
 1-247-843-00 CARBON 3.3K 5% 1/6W \*B  
 R160 1-247-831-00 CARBON 1K 5% 1/6W

R161 1-247-879-00 CARBON 100K 5% 1/6W  
 R162 1-247-831-00 CARBON 1K 5% 1/6W  
 R163 1-247-879-00 CARBON 100K 5% 1/6W  
 R164 1-247-831-00 CARBON 1K 5% 1/6W  
 R165 1-247-879-00 CARBON 100K 5% 1/6W

R166 1-247-831-00 CARBON 1K 5% 1/6W  
 R167 1-247-879-00 CARBON 100K 5% 1/6W  
 R168 1-247-831-00 CARBON 1K 5% 1/6W  
 R169 1-247-879-00 CARBON 100K 5% 1/6W  
 R170 1-247-831-00 CARBON 1K 5% 1/6W

R171 1-247-879-00 CARBON 100K 5% 1/6W  
 R172 1-247-831-00 CARBON 1K 5% 1/6W  
 R173 1-247-879-00 CARBON 100K 5% 1/6W  
 R174 1-247-887-00 CARBON 220K 5% 1/6W  
 R175 1-247-867-00 CARBON 33K 5% 1/6W

R176 1-247-871-00 CARBON 47K 5% 1/6W  
 R177 1-247-843-00 CARBON 3.3K 5% 1/6W

R178 1-212-942-00  $\Delta$  FUSIBLE 2.2 5% 1/2W  
 (NONFLAMMABLE)

Ref.No. Part No. Description

(PGA-1 BOARD)

R179 1-212-942-00  $\Delta$  FUSIBLE 2.2 5% 1/2W  
 (NONFLAMMABLE)

R180 1-247-887-00 CARBON 220K 5% 1/6W

RV1 1-230-023-11 VAR,CERMET 10K  
 RV2 1-230-023-11 VAR,CERMET 10K  
 RV3 1-230-023-11 VAR,CERMET 10K  
 RV4 1-230-023-11 VAR,CERMET 10K  
 RV5 1-230-415-11 VAR,CERMET 1K

RV6 1-230-415-11 VAR,CERMET 1K  
 RV7 1-230-415-11 VAR,CERMET 1K

CB1 1-532-526-11  $\Delta$  CIRCUIT BREAKER 10A

SW-50 BOARD

1-612-052-00 PC BOARD, SW-50

R1 1-214-152-00 METAL 6.8K 1% 1/4W  
 R2 1-214-539-00 METAL 180 1% 1/8W  
 R3 1-214-152-00 METAL 6.8K 1% 1/4W  
 R4 1-214-114-00 METAL 180 1% 1/4W  
 R5 1-214-152-00 METAL 6.8K 1% 1/4W

R6 1-214-539-00 METAL 180 1% 1/8W  
 R7 1-214-152-00 METAL 6.8K 1% 1/4W  
 R8 1-214-114-00 METAL 180 1% 1/4W  
 R9 1-214-152-00 METAL 6.8K 1% 1/4W  
 R10 1-214-539-00 METAL 180 1% 1/8W

R11 1-214-152-00 METAL 6.8K 1% 1/4W  
 R12 1-214-114-00 METAL 180 1% 1/4W  
 R13 1-214-152-00 METAL 6.8K 1% 1/4W  
 R14 1-214-539-00 METAL 180 1% 1/8W  
 R15 1-214-152-00 METAL 6.8K 1% 1/4W

R16 1-214-114-00 METAL 180 1% 1/4W  
 R17 1-214-152-00 METAL 6.8K 1% 1/4W  
 R18 1-214-539-00 METAL 180 1% 1/8W  
 R19 1-214-152-00 METAL 6.8K 1% 1/4W  
 R20 1-214-114-00 METAL 180 1% 1/4W



Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
<b>(SW-50 BOARD)</b>			<b>SW-54 BOARD</b>		
R21	1-214-152-00	METAL 6.8K 1 $\frac{1}{2}$ 1/4W		1-612-056-00	PC BOARD,SW-54
R22	1-214-539-00	METAL 180 1 $\frac{1}{2}$ 1/8W			
R23	1-214-152-00	METAL 6.8K 1 $\frac{1}{2}$ 1/4W			
R24	1-214-114-00	METAL 180 1 $\frac{1}{2}$ 1/4W			
S1	1-554-775-11	SWITCH,TOGGLE			
S2	1-554-775-11	SWITCH,TOGGLE			
S3	1-554-775-11	SWITCH,TOGGLE			
S4	1-554-775-11	SWITCH,TOGGLE			
S5	1-554-775-11	SWITCH,TOGGLE			
S6	1-554-775-11	SWITCH,TOGGLE			
<b>SW-51 BOARD (YU model)</b>			<b>POWER SUPPLY</b>		
	1-612-053-00	PC BOARD,SW-51		1-536-765-00	TERMINAL BOARD
<b>SW-52 BOARD (YU model)</b>			<b>SWITCHING REGULATOR</b>		
	1-612-054-00	PC BOARD,SW-52		A-4396-161-A	REGULATOR ASSY,SWITCH (incl. PS-50 MOUNTED PCB)
<b>SW-53 BOARD (YU model)</b>			<b>PS-50 BOARD</b>		
	1-612-055-00	PC BOARD,SW-53	C101	1-136-185-11	FILM 0.22 250V
			C102	1-136-185-11	FILM 0.22 250V
			C107	1-125-385-11	ELECT 330 200V
			C108	1-125-385-11	ELECT 330 200V
			C109	1-124-318-51	ELECT 2.2 400V
			C110	1-124-319-51	ELECT 15 400V
			C111	1-108-595-51	FILM 0.047 50V
			C112	1-108-599-51	FILM 0.068 50V
			C113	1-136-326-11	FILM 0.18 400V
			C114	1-136-326-11	FILM 0.18 400V

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
(PS-50 BOARD)			(PS-50 BOARD)		
C115	1-123-606-51	ELECT 1000 25V	C306	1-124-128-51	ELECT 470 25V
C116	1-123-606-51	ELECT 1000 25V	C307	1-124-128-51	ELECT 470 25V
C117	1-123-606-51	ELECT 1000 25V	C308	1-108-595-51	FILM 0,047 50V
C118	1-123-606-51	ELECT 1000 25V	C309	1-108-595-51	FILM 0,047 50V
C119	1-124-123-51	ELECT 100 10V	C310	1-124-367-51	ELECT 330 63V
C120	1-161-742-12	△ CERAMIC 2200P 400V	C311	1-124-368-51	ELECT 470 10V
C121	1-161-742-12	△ CERAMIC 2200P 400V	C312	1-124-130-51	ELECT 100 63V
C122	1-161-742-12	△ CERAMIC 2200P 400V	C313	1-124-124-51	ELECT 220 10V
C123	1-161-742-12	△ CERAMIC 2200P 400V	C314	1-124-130-51	ELECT 100 63V
C124	1-130-141-11	FILM 0,01 630V	C315	1-108-595-51	FILM 0,047 50V
C125	1-130-141-11	FILM 0,01 630V	C316	1-108-595-51	FILM 0,047 50V
C126	1-124-124-51	ELECT 220 10V	C317	1-124-123-51	ELECT 100 10V
C127	1-124-124-51	ELECT 220 10V	C318	1-123-876-51	ELECT 330 25V
C201	1-123-606-51	ELECT 1000 25V	C319	1-124-126-51	ELECT 47 25V
C202	1-124-042-51	ELECT 0,47 50V	C320	1-123-876-51	ELECT 330 25V
C203	1-108-579-51	ELECT 0,01 50V	C321	1-124-127-51	ELECT 100 25V
C204	1-124-126-51	ELECT 47 25V	D101	8-719-503-16	S3WB60ZS
C205	1-108-579-51	FILM 0,01 50V	D104	8-719-903-16	ESAC85-009
C206	1-123-606-51	ELECT 1000 25V	D105	8-719-981-01	ERAB1-004
C207	1-124-128-51	ELECT 470 25V	D106	8-719-920-40	ESAC82-004
C208	1-108-595-51	FILM 0,047 50V	D109	8-719-815-80	1S1587
C209	1-108-595-51	FILM 0,047 50V	D112	8-719-815-80	1S1587
C210	1-101-006-21	CERAMIC 0,047 50V	D201	8-719-920-40	ESAC82-004
C211	1-101-006-21	CERAMIC 0,047 50V	D204	8-719-904-24	ESAC31-020
C212	1-123-876-51	ELECT 330 25V	D205	8-719-904-24	ESAC31-020
C213	1-123-876-51	ELECT 330 25V	D207	8-719-815-80	1S1587
C214	1-124-128-51	ELECT 470 25V	D301	8-719-981-00	ERCB1-004
C215	1-124-128-51	ELECT 470 25V	D304	8-719-906-38	ERB44-02
C216	1-124-123-51	ELECT 100 10V	D305	8-719-906-38	ERB44-02
C217	1-108-583-51	FILM 0,015 50V	D306	8-719-907-25	ERAB4-009
C301	1-124-128-51	ELECT 470 25V	D307	8-719-907-25	ERAB4-009
C302	1-108-587-12	FILM 0,022 50V	D308	8-719-912-52	ESAC25-02C
C303	1-102-110-21	CERAMIC 220P 50V	D310	0-480-574-11	05Z51X-LB5
C304	1-124-126-51	ELECT 47 25V	D312	8-719-815-80	1S1587
C305	1-108-579-51	FILM 0,01 50V	F101	1-532-917-11	△ FUSE, RESISTER TEMPERATURE
IC1	8-759-937-59	MB3759	IC2	8-759-937-59	MB3759
IC3	8-759-135-80	uPC358C			

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
<b>(P5-50 BOARD)</b>			<b>(P5-50 BOARD)</b>		
L101	1-421-740-11	LINE FILTER 20mH	R101	1-205-693-11	CEMENT COATED 47 5W
L102	1-421-580-11	LINE FILTER 2mH	R102	1-246-473-25	CARBON 1K 1/4W
L103	1-421-461-11	CHOKE COIL 10	R103	1-206-519-11	METAL OXIDE 22 3W
L104	1-421-461-11	CHOKE COIL 10	R104	1-244-921-11	CARBON 100K 1/2W
L105	1-421-491-11	CHOKE COIL 15	R105	1-244-921-11	CARBON 100K 1/2W
L106	1-421-491-11	CHOKE COIL 15	R107	1-224-935-11	CARBON 390K 1/2W
L201	1-421-369-11	CHOKE COIL	R110	1-213-131-11	METAL OXIDE 100 1W
L202	1-421-161-11	MICRO INDUCTOR 22	R112	1-246-456-46	CARBON 200 1/4W
L203	1-421-739-11	CHOKE COIL 150	R113	1-246-489-25	CARBON 4.7K 1/4W
L204	1-421-491-11	CHOKE COIL 15	R118	1-246-449-46	CARBON 100 1/4W
L205	1-421-461-11	CHOKE COIL 10	R206	1-246-456-46	CARBON 200 1/4W
L206	1-421-461-11	CHOKE COIL 10	R207	1-246-459-25	CARBON 270 1/4W
L207	1-421-461-11	CHOKE COIL 10	R208	1-246-504-25	CARBON 20K 1/4W
L208	1-421-461-11	CHOKE COIL 10	R209	1-246-473-25	CARBON 1K 1/4W
L301	1-421-738-11	CHOKE COIL 150	R210	1-246-473-25	CARBON 1K 1/4W
L302	1-421-461-11	CHOKE COIL 10	R211	1-246-455-25	CARBON 180 1/4W
L303	1-421-462-11	CHOKE COIL 10	R212	1-206-653-11	METAL OXIDE 360 2W
L304	1-421-461-11	CHOKE COIL 10	R213	1-246-425-25	CARBON 10 1/4W
L305	1-421-462-11	CHOKE COIL 10	R214	1-246-417-25	CARBON 4.7 1/4W
Q101	8-729-389-38	25A893-E	R215	1-246-489-25	CARBON 4.7K 1/4W
Q102	8-729-389-08	25C1890-E	R216	1-246-487-25	CAARBON 3.9K 1/4W
Q103	8-729-954-21	25C2542-A	R217	1-246-473-25	CARBON 1K 1/4W
Q104	8-729-954-21	25C2542-A	R222	1-244-833-11	CAARBON 22 1/2W
Q105	8-729-202-45	25A1020-Y	R223	1-212-857-11	FUSIBLE 10 1/4W
Q106	0-480-570-11	25A1217-Y	R224	1-212-857-11	FUSIBLE 10 1/4W
Q107	0-480-571-11	25C2877-Y	R225	1-205-769-11	CEMENT COATED 0.02 5W
Q201	8-729-202-45	25A1020-Y	R306	1-246-456-25	CARBON 200 1/4W
Q202	8-729-910-49	25D1049	R307	1-246-451-25	CARBON 120 1/4W
Q203	8-729-117-66	25A1175F-K	R308	1-246-504-25	CARBON 20K 1/4W
Q204	8-729-108-56	25C2785	R309	1-246-473-25	CARBON 1K 1/4W
Q205	8-729-910-49	25D1049	R310	1-246-473-25	CARBON 1K 1/4W
Q206	8-729-910-49	25D1049	R311	1-247-115-11	CARBON 220 1/4W (NONFLAMMABLE)
Q301	8-729-201-49	25A1012-Y	R312	1-206-651-11	METAL OXIDE 300 2W
Q302	8-729-117-66	25A1175F-K	R313	1-246-449-25	CARBON 100 1/4W
TR1	1-719-815-87	BCR3AM-10	R314	1-246-449-25	CARBON 100 1/4W
Q303	8-729-108-56	25C2785			
Q304	8-729-910-49	25D1049			
Q305	8-729-910-49	25D1049			
Q306	8-729-133-43	25C2334K			
Q307	8-729-133-43	25C2334K			

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
(PS-50 BOARD)			FRAME		
R319	1-244-833-11	CARBON 22 1/2W			<MAIN ASSY>
R320	1-246-469-46	CARBON 680 1/4W			
R321	1-246-475-25	CARBON 1.2K 1/4W			
R325	1-217-411-11	FUSIBLE 1K 1/4W		1-543-219-11	FERRITE BEAD RING
R326	1-246-480-46	CARBON 2K 1/4W		1-553-175-11	HOLDER FUSE
R327	1-246-483-46	CARBON 2.7K 1/4W		1-123-490-00	CAP,ELECT(ALMINIUM) 3300
R328	1-205-769-11	CEMENT 0.02 5W		1-130-483-00	CAP,PE TEREPHTHALATE 0.01
R329	1-206-463-11	METAL OXIDE 10 2W		1-509-176-31	CONNECTOR(RECEPTACLE) 3P
R330	1-247-075-11	CARBON 2.2 1/4W (NONFLAMMABLE)		1-509-177-31	CONNECTOR(RECEPTACLE) 4P
R331	1-246-497-45	CARBON 10K 1/4W(*2)		1-509-184-31	CONNECTOR(RECEPTACLE) 3P
RV1	1-226-702-12	RES,ADJ,2.2K 0.3W		1-580-375-11	INLET 3P
RV2	1-226-771-12	RES,ADJ,1K 0.3W		1-532-299-00	FUSE TIME-LAG (AE)
T101	1-543-100-11	CORE		1-532-704-00	FUSE (J)(U)(CA)
T101	1-543-098-11	CORE		1-552-535-11	SWITCH,VOLTAGE CHANGE
T102	1-543-100-11	CORE		1-554-737-11	SWITCH,TOGGLE
T103	1-448-049-11	CONVERTOR TRANS		1-554-776-11	SWITCH,TOGGLE
T104	1-543-219-11	FERRITE BEAD RING		1-554-781-11	SWITCH,SEESAW(AC & DC POWER)
T201	1-543-100-11	CORE		1-560-712-11	PLUG,CONNECTOR
T202	1-543-100-11	CORE		1-561-376-00	CONNECTOR(S) 4P
T203	1-448-050-11	CONVERTER TRANS		1-561-515-22	CONNECTOR HOUSING,1LG(3P)
T301	1-543-100-11	CORE		1-561-516-22	CONNECTOR HOUSING(4P)
T302	1-543-100-11	CORE		1-561-518-22	CONNECTOR HOUSING,1LG(6P)
T303	1-448-051-11	CONVERTER TRANS		1-561-519-22	CONNECTOR HOUSING,1LG(8P)
				1-561-754-22	CONNECTOR HOUSING,1LG 7P
				1-562-452-11	CONNECTOR,D-SUB 15P
				1-562-453-11	CONNECTOR 5P
				1-562-454-11	CONNECTOR 15P
				1-562-455-11	CONNECTOR 22P
				<INPUT ASSY>	
				1-230-458-11	RES,VAR(SLIDE TYPE)
				1-553-969-11	SWITCH,TOGGLE
			06	8-719-812-41	DIODE,TLR124

### 5-3. PACKING MATERIAL AND ACCESSORY

Ref.No.	Part No.	Description
(FRAME)		
<MASTER-1 ASSY>		
	1-230-457-11	RES,VAR(SLIDE TYPE)
	1-561-516-22	CONNECTOR HOUSING(4P)
	1-561-518-22	CONNECTOR HOUSING,1LG(6P)
	1-561-519-22	CONNECTOR HOUSING,1LG(8P)
D17	8-719-812-43	DIODE TLG124A

Ref.No.	Part No.	Description
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#### PACKING MATERIAL AND ACCESSORY

	1-551-812-00	△ CORD,POWER (U)(CA)
	1-590-910-11	△ CORD SET, POWER
	1-557-161-00	△ CORD,POWER (J)
	3-701-629-00	BAG,POLYETHYLENE
	3-701-630-00	BAG,POLYETHYLENE
	3-701-640-00	BAG,POLYETHYLENE

<MASTER-2 ASSY>		
	1-230-456-11	RES,VAR(SLIDE TYPE)
	1-561-516-22	CONNECTOR HOUSING(4P)
	1-561-517-22	CONNECTOR HOUSING,1LG(5P)
	1-561-520-22	CONNECTOR HOUSING,1LG(10P)
	1-561-754-22	CONNECTOR HOUSING,1LG 7P
D5	8-719-812-43	DIODE TLG124A

#### <PANEL ASSY, VU METER> -VU model-

	1-123-465-00	CAP,ELECT(ALMINIUM) 220
	1-246-461-00	RES,CARBON 330
	1-518-555-11	LAMP,PILOT(LEAD TYPE)
	1-520-468-11	METER,VU
	1-520-469-11	METER,VU
	1-554-774-11	SWITCH,TOGGLE
	1-554-779-11	SWITCH,PUSH(WITH LED)(1 KEY)
	1-554-780-11	SWITCH,PUSH(3 KEY)
	1-560-366-21	CONNECTOR POST HEADER,1LG(4P)
	1-561-519-22	CONNECTOR HOUSING,1LG(8P)
	1-561-521-22	CONNECTOR HOUSING,1LG(12P)

#### <PANEL ASSY,PK METER> -PK model-

	1-554-779-11	SWITCH,PUSH(WITH LED)(1 KEY)
	1-561-519-22	CONNECTOR HOUSING,1LG(8P)
	1-561-520-22	CONNECTOR HOUSING,1LG(10P)
	1-561-521-22	CONNECTOR HOUSING,1LG(12P)
	1-806-778-11	DIODE(LED BLOCK)
	1-806-777-11	DIODE(LED BLOCK)



## SECTION 6 PARTS CHANGE INFORMATION

At Sony, we continually strive to keep up with latest electronic developments by adding circuit and component improvements to our instruments as soon as they are developed and tested. The following information covers the parts change of the former units.

### Electrical Parts List Changes

MSM-3 BOARD (Board No. 1-612-072-13)			MSM-3 BOARD (Board No. 1-612-072-13)		
MX-P61VU: SERIAL No. 10001 to 10150(J) SERIAL No. 20001 to 20145(U) SERIAL No. 50001 to 50074(AEP)			MX-P61VU: SERIAL No. 10151 and higher(J) SERIAL No. 20146 and higher(U) SERIAL No. 50075 and higher(AEP)		
MX-P61PK: SERIAL No. 28001 to 28027(U) SERIAL No. 58001 to 58117(AEP)			MX-P61PK: SERIAL No. 28028 and higher(U) SERIAL No. 58118 and higher(AEP)		
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R1	1-214-581-00	METAL 10K 1/8W	R1	1-214-588-00	METAL 20K 1/8W
R114	1-214-572-00	METAL 4.3K 1/8W	R114	1-214-568-00	METAL 3K 1/8W
R115	1-214-572-00	METAL 4.3K 1/8W	R115	1-214-568-00	METAL 3K 1/8W
R117	1-214-581-00	METAL 10K 1/8W	R117	1-214-588-00	METAL 20K 1/8W