

SERVICE

MANUAL

A U D I O
MIXER

SMX-812

interM

ELECTRICAL PARTS LIST (SMX-812)

Ref No.	Part No.	Description	Value	Qty	REMARK
MAIN B'D					
IC101 IC201 IC301	2118010432	IC NJM2068DD JRC	2068D	3	
IC401 IC501	2168220987	IC NJM 5532L JRC	5532L	2	
IC102-103 IC302-303 IC503 IC701 IC801	2118010455	NJM4558D	4558D	7	
IC502 IC602 IC1004 IC901 IC951	2118010454	NJM4558L	4558L	5	
IC952	2118010433	NJM4556L	4556L	1	
IC751	2118010332	IC NJM 5532DD JRC	5532D	1	
IC802	2118031035	IC MN3007 CHIYODA	MN3007	1	
IC803	2118060112	MN3101	MN3101	1	
IC851 IC852	2118070111	KA6966S	6966S	2	
IC853-854	2118070112	KA6967S	6967S	2	
IC1001	2128610900	IC KA7815 COMMON	7815A	1	
IC1002	2128610800	IC MC7915 COMMON	7915A	1	
Q1001	2028106113	TR/NPN/KTD2085	D2085	1	POWER B'D
Q203	2008606104-T	TR NPN KTC3198-Y-AT TO-92	C3198	1	
Q951	2008606108-T	KTC3200-BL-AT	C3200	1	
Q101-102 Q201-202 Q301-302 Q401-402	2008207100-T	TR PNP 2SA 970BL-TPE2	A970BL	8	
D951-952	2058100982	DIODE BRIDGE KBP 205	1N4004	2	
ZD1002	2058502240	DIODE ZENER UZ-24BM(1N5252B)	1N4749A	1	
ZD501	2058512120	DIODE ZENER UZP-12BM(1N4742A)	4742A	1	
D101-104 D201-204 D301-304 D401-404 D801-802	2058304100	DIODE 1N4148M	1N4148	18	
LD3 LD851-858	2300052105	LED LTL-307G-041A LITEON	KLG124	9	
LD859-862	2300053105	LED LTL-307EA-041A LITEON	KLY124	4	
LD1-2 LD863-864	2300050105	LED LTL-307E-041A LITEON	KLR124	4	
JK501 JK601	4407188310	RCA JACK/JK020056AN	JK020056AN	2	
JK101 JK201 JK301 JK401	4408194310	XLR JACK (M) E503A0150N	E503A0150N	4	
JK102 JK202 JK302 JK402 JK701-702 JK751 JK901-902 JK951	4408294210	JK9PAONEJACK/H40580120N	JK9PHONE	10	
SW501 SW601	4618999911	SLIDE SW/JSS2301S090	SLID SW	2	
SW1 SW101 SW201 SW301 SW401 SW502 SW602	4628999913	PUSH SW/SPEA121SC021	PUSH SW	7	
RL901	5528008883	RELAY SY-12W-K	12W-K	1	
FB101-102 FB201-202 FB301-302 FB401-402		FERRITE BEAD/H5B	H5B	8	
VR901-902	3227076110	RA4543 20 15C1 A14	A14	2	
VR101 VR201 VR301 VR40	3227075411	EVUF2LFL3 24Y	24Y	1	
VR102-104 VR202-204 VR302-304 VR402-404	3227075415	EVUF3LFL3 B54	B54	12	
VR107 VR207 VR307 VR40	3227075416	EVUF3LFL3 G24	G24	4	
VR105 VR205 VR305 VR40	3227075412	EVUF2LFL3 A14	A14	4	
VR106 VR206 VR306 VR40 VR504 VR604 VR803	3227075417	EVUF2LFL3 A24	A24	7	
VR501-502 VR601-602	3227075414	EVJY96F03 B54	B54	4	

VR503 VR603 VR701 VR95	3227075422	EVJY15F03 A24	A24	4	
VR801	3227075511	CET068CT B10K	10KB.SEMI	1	
FR851-852	3009100974	RES CF 10 1/5W J N	10	2	
R963-964	3009100974	10 OHM 1/6W J(FUSE)	FR 10	2	
R110 R210 R310 R410	3009180973	RES CF 18 1/5W J N	18	4	
R6	3009470973	RES CF 47 1/5W J N	47	1	
R755 R911-912	3009750973	RES CF 75 1/5W JN	75	3	
R501-502 R601-602 R701-704	3009101973	RES CF 100 1/5W J N	100	6	
R124 R224 R324 R424 R525-526 R625-626	3009221973	RES CF 220 1/5W J N	220	8	
R855-856 R861-862	3009331973	RES CF 330 1/5W J N	330	4	
R816	3009821973	RES CF 820 1/5W J N	820	1	
R806 R965 R1014	3009102973	RES CF 1K 1/5W J N	1K	3	
R111-112 R211-212 R311-312 R411-412 R817 R820 R1016 R1017	3009222973	RES CF 2.2K 1/5W J N	2.2K	12	
R120 R220 R320 R420 R535 R636 R635-636 R966 R968-969 R1015	3009472973	RES CF 4.7K 1/5W J N	4.7K	12	
R104-105 R204-205 R304-305 R404-405 R515-516 R521-522 R615-616 R621-622	3009562973	RES CF 5.6K 1/5W J N	5.6K	16	
R913-916 R970	3009622973	RES CF 6.2K 1/5W J N	6.2K	5	
R101-102 R108-109 R135 T201-201 R208-209 R235 R301-302 R308-309 R335 R401-402 R408-409 R435 R507-508 R607-608	3009682973	RES CF 6.8K 1/5W J N	6.8K	24	
R119 R219 R319 R419	3009822973	RES CF 8.2K 1/5W J N	8.2K	4	
R709-710	3009912973	RES CF 9.1K 1/5W JN	9.1K	2	
R117-118 R125-133 R217-218 R225-230 R233 R317-318 R325-328 R330 R333 R417-418 R425-428 R430 R433 R505-506 R513-514 R519-520 R523-524 R529-534 R541 R605-606 R613-614 R916-620 R623-624 R629-634 R641 R952	3009103973	RES CF 10K 1/5W J N	10K	63	
R957-958	3009113973	RES CF 11K 1/5W J N	11K	2	
R115-116 R215-216 R315-316 R415-416 R539 R639 R905-906	3009123973	RES CF 12K 1/5W J N	12K	12	
R123 R223 R323 R423 R752 R853-854	3009153973	RES CF 15K 1/5W J N	15K	7	
R129 R131-132 R134 R229 R231-234 R329 R331-334 R429 R431-434 R527-528	3009183973	RES CF 18K 1/5W J N	18K	63	

R540 R627-628 R640 R705-706 R951 R955-956					
R814	3009223973	RES CF 22K 1/5W J N	22K	1	
R753	3009243973	RES CF 24K 1/5W JN CDC-9300	24K	1	
R113-114 R213-214 R313-314 R413-414 R537-538 R637-638	3009273973	RES CF 27K 1/5W J N	27K	12	
R122 R222 R322 R422	3009683973	RES CF 68K 1/5W J N	68K	4	
R517-518 R617-618 R707-708 R863-864	3009333973	RES CF 33K 1/5W J N	33K	8	
R751	3009363973	RES CF 36K 1/5W J N	36K	1	
R809 R813	3009393973	RES CF 39K 1/5W J N	39K	2	
R106-107 R206-207 R306-307 R406-407 R503-504 R509-510 R603-604 R609-610 R711-712 R754 R901-904 R909-910 R953-954 R961-962	3009473973	RES CF 47K 1/5W J N	47K	29	
R859-860	3009563973	RES CF 56K 1/5W J N	56K	2	
R121 R221 R321 R421 R821-822 R907-908	3009683973	RES CF 68K 1/5W J N	68K	8	
R851-852 R857-858	3009823973	RES CF 82K 1/5W J N	82K	4	
R511-512 R611-612 R807-808 R811-812	3009104973	RES CF 100K 1/5W J N	100K	8	
R815 R865	3009184973	RES CF 180K 1/5W J N	180K	2	
R801-802 R804	3009105973	RES CF 1M 1/5W J N	1M	3	
R803 R810	3009335973	RES CF 3.3M 1/5W J N	3.3M	2	
R805	3009535973	5.3 MOHM 1/6W J	5.3M	1	
R959-960	3009101982	100 OHM 1W J	100	2	
R967 R1018	3039102472	RES MO 1K 1W J	1K	2	
C117 C217 C317 C417 C505-506 C605-606	3529100311	CAP CE SL 10PF 50V J AXIAL	10P	8	
C122 C222 C322 C422 C523-524 C623-624 C752 C754 C903-906 C911-912 C961-962	3529220311	CAP CE SL 22PF 50V J AXIAL	22P	18	
C515-518 C615-618	3529330311	CAP CE SL 33PF 50V J AXIAL	33P	8	
C955-956	3529563011	56 PF 50V	56P	2	
C109-110 C112 C309-210 C212 C309-310 C312 C409-410 C412 C503-504 C603-604 C701-702 C705-706 C954	3529101311	100 PF 50V	100P	21	
C804	3529151311	150 PF 50V	150P	1	
C106-107 C206-207 C306-307 C406-407	3529471311	470 PF 50V	470P	8	
C811	3529561311	560 PF 50V	560P	1	
C102-103 C202-203 C302-303 C402-403 C756 C915-916 C956-966	3529102311	102 PF 50V	1000P	13	
C124-126 C224-226 C324-326 C424-426	3529103311	103 PF 50V	10000P	18	

C527-529 C627-629					
C511-512 C611-612	3609102120-T	CAP MA 0.001UF 100V	0.001(M)	4	
C116 C216 C316 C416	3609152120-T	CAP MA 0.0015UF 100V J	0.0015(M)	4	
C119 C219 C319 C419	3609222120-T	CAP MA 0.0022UF 100V J	0.0022(M)	4	
C118 C218 C318 C418	3609392120-T	CAP MA 0.0039UF 100V J	0.0039(M)	4	
C802 C809-810	3609153120-T	CAP MA 0.015UF 100V J	0.015(M)	3	
C509-510 C513-514 C609-610 C613-614	3609393120-T	CAP MA 0.039UF 100V J	0.039(M)	8	
C114-115 C214-215 C314-315 C414-415	3609473120-T	CAP MA 0.047UF 100V	0.047(M)	8	
C815-816	3609104120-T	CAP MA 0.1UF 100V J	0.1(M)	2	
C801 C806 C812	3609224120-T	0.22 MF 50V	0.22/50	3	
C808				1	
C969	3409210571-T	1 MF 50V	1/50	1	
C853-858	3409247571-T	4.7 MF 50V	4.7/50	6	
C803	3409210671-T	10 MF 50V	10/50	1	
C121 C123 C221 C223 C321 C323 C421 C423 C521-522 C525-526 C621-622 C625-626 C753 C907-910 C958-960	3409222671-T	22 MF 50V	22/50	24	
C1011	3409222691-T	22 MF 100V	22/100	1	
C111 C113 C120 C211 C213 C220 C311 C313 C320 C411 C413 C420 C501-502 C507-508 C519-520 C601-602 C607-608 C619-620 C703-704 C707-708 C805 C813	3409247671-T	47 MF 25V	47/25	30	
C1 C104-105 C204-205 C304-305 C404-405	3409247681-T	47 MF 63V	47/63	9	
C751 C755 C901-902 C913-914 C951-952 C967-968	3409210781-T	100 MF 50V	100/50	10	
C851-852 C963-964	3409222781-T	220 MF 50V	220/50	4	
C108 C208 C308 C408	3409247781-T	470 MF 50V	470/50	1	
IC902			NJM5532L	1	
VR802			09VSF30 A105	1	
VR505 VR605			12VSF30 AC103	2	

POWER B'D

IC1001	2128610900	IC KA7815 COMMON	7815A	1	
IC1002	2128610800	IC MC7915 COMMON	7915A	1	
D1001-1012	2058100982	DIODE BRIDGE KBP 205	1N4004	12	
ZD1001 ZD1003	2058502240	DIODE ZENER UZ-24BM(1N5252B)	1N4749A	2	
FR1001-1002	3009100973	RES CF 10 1/5W J N	10	2	
R1003	3009332973	RES CF 3.3K 1/5W J N	3.3K	1	
R1002	3009472973	RES CF 4.7K 1/5W J N	4.7K	1	
R1001	3009047982	4.7 OHM 2W J	4.7/2W	1	
R1004	3009560982	56 OHM 2W J	56/2W	1	
C1009-1010 C1012 C1015 C1018-1020 C1022	3609103120-T	CAP MA 0.01UF 100V	10000P	8	
C1023	3609103820-T	103 PF 400V/AC	0.01/400V	1	
C1001-1002	3609104120-T	CAP MA 0.1UF 100V J	0.1M	2	
C1011	3409222691-T	22 MF 100V	22/100	1	

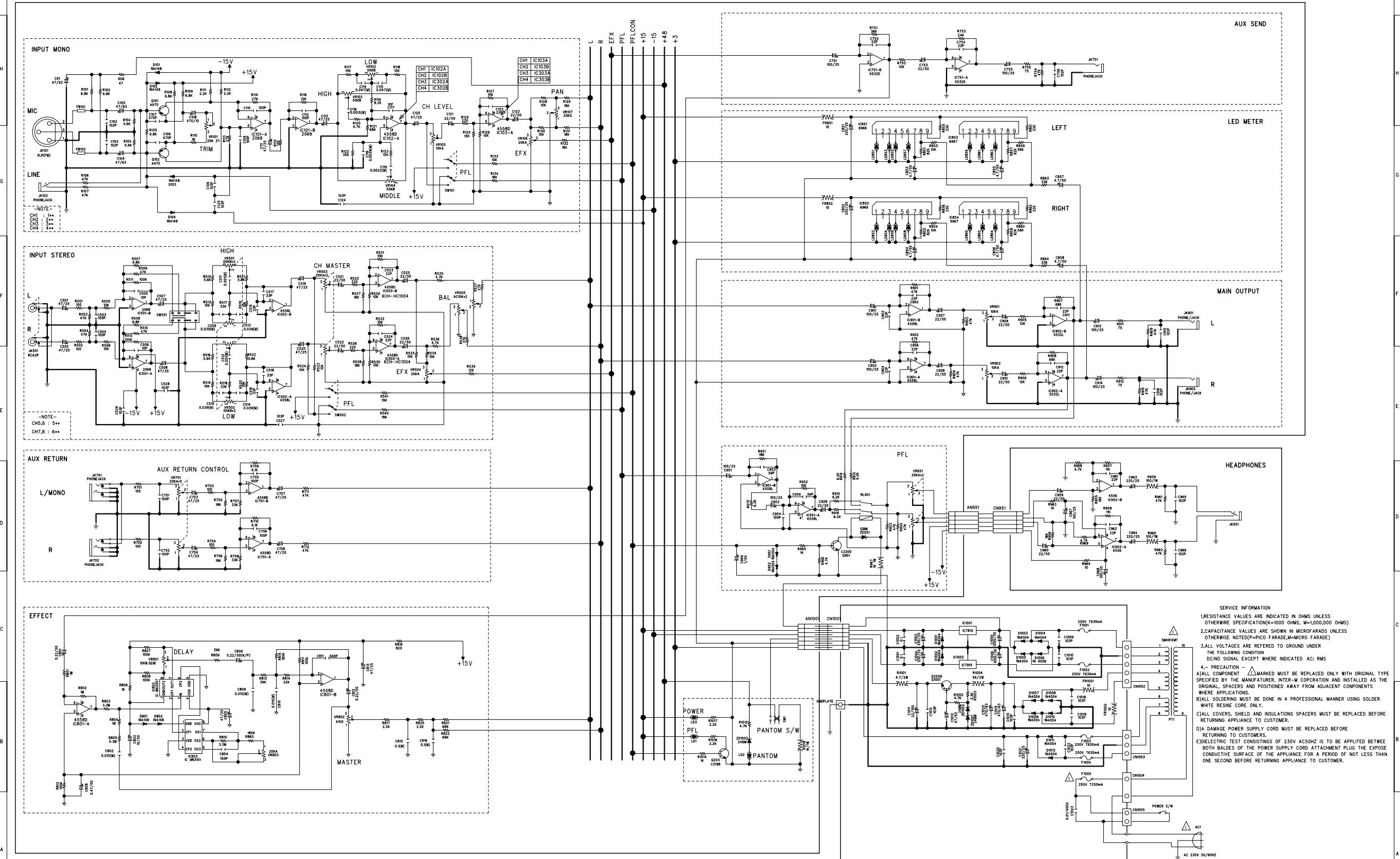
C1013	3409247681-T	47 MF 63V	47/63	1	
C1021	3409222741-T	220 MF 25V	220/25	1	
C1003-1004	3409233741-T	330 MF 25V	330/25	2	
C1014 C1025	3409247781	470 MF 63V	470/63	2	
C1005-1006	3409210881	1000 MF 35V	1000/35	2	
CN1001	4428526706	CONNECTOR/5267-06P	6P	1	
CN1003	4428526703	CONNECTOR/5267-03P	3P	1	
CN1002	4428526705	CONNECTOR/5267-05P	5P	1	

ASS'Y

T1-4	4465998210	TERMINAL(250)PCB TAB	TER	4	
PT	2209086028 2209076028 2209066028	POWER TRANS FORMER SMX-812U : 120V/UL.CSA SMX-812B : 230V/CE SMX-812S : 240V/SAA	PT	1	
AC INPUT	1000102800 1005220810 1004242840 1006242860	AC POWER SUPPLY CORD KJC-236HVCTF BLACK : UL KKJ-1004A 1103 DKEMA : CE CW-1302 HO2W-F : B.S KKP-550 KLSA6FT : SAA	AC INPUT	1	

COMPANY	INTER-M	APPLICANT	REVISED NUMBER AND DATE	1	2	3	4	5	6	7	8	9
TYPE CODE			1	2	3	4	5	6	7	8	9	
APPROVED DATE	1996.12.23		1	2	3	4	5	6	7	8	9	

SHEET NO. SCHEMATIC DIAGRAM
MODEL : SMX-812 SCHEMATIC DIAGRAM



NOTE:
CH1 : 5+
CH2 : 5+
CH3 : 5+
CH4 : 5+
CH5 : 5+
CH6 : 5+
CH7 : 5+
CH8 : 5+
CH9 : 5+
CH10 : 5+

NOTE:
CH5.5 : 5+
CH7.5 : 5+
CH9.5 : 5+

SERVICE INFORMATION
1. RESISTANCE VALUES ARE INDICATED IN OHMS UNLESS OTHERWISE SPECIFIED (K=1000 OHMS, M=100,000 OHMS)
2. CAPACITANCE VALUES ARE SHOWN IN MICROFARADS UNLESS OTHERWISE NOTED (P=PICO FARADE, M=MICRO FARADE)
3. ALL VOLTAGES ARE REFERRED TO GROUND UNDER THE FOLLOWING CONDITION
3.000 SIGNAL EXCEPT WHERE INDICATED AC: RMS
4. PRECAUTION - A MARKED COMPONENT MUST BE REPLACED ONLY WITH ORIGINAL TYPE SPECIFIED BY THE MANUFACTURER, INTER-M CORPORATION AND INSTALLED AS THE ORIGINAL. SPACERS AND POSITIONED AWAY FROM ADJACENT COMPONENTS WHERE APPLICABLE.
B) ALL SOLDERING MUST BE DONE IN A PROFESSIONAL MANNER USING SOLDER WHITE RESINE CORE ONLY.
C) ALL COVERS, SHIELD AND INSULATIONS SPACERS MUST BE REPLACED BEFORE RETURNING APPLIANCE TO CUSTOMER.
D) A DAMAGE POWER SUPPLY CORD MUST BE REPLACED BEFORE RETURNING TO CUSTOMERS.
E) DIELECTRIC TEST CONSISTING OF 230V AC 50HZ IS TO BE APPLIED BETWEEN BOTH BALDES OF THE POWER SUPPLY CORD ATTACHMENT PLUS THE EXPOSED CONDUCTIVE SURFACE OF THE APPLIANCE FOR A PERIOD OF NOT LESS THAN ONE SECOND BEFORE RETURNING TO CUSTOMER.