

SERVICE

MANUAL

PROFESSIONAL STEREO

MIXER

MX-1424/1424EX/1824/1824EX

interM

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SPECIFICATIONS

■ GENERAL

*0dB=0.775Vrms, 0dBV=1Vrms

Maximum Output Level (0.5% T.H.D at 1kHz)	+24dB(MIX L/R) @600Ω +20dB(ALT 3/4) @600Ω +20dB(AUX1~ 2) @600Ω +20dB(INSERT) @10kΩ +20dB(CTRL ROOM) @600Ω More than 100mW(HEADPHONES) @40Ω
T.H.D	<0.1% @+14dB 20Hz ~ 20kHz (MIX L/R, ALT 3/4, AUX SEND1~ 2, CTRL ROOM) @600Ω
Frequency Response	20Hz ~ 20kHz, +1/-2dB (MIX L/R, ALT 3/4, AUX SEND1~ 2, CTRL ROOM) @600Ω
Hum and Noise (Average, Rs=150Ω)	-127dB equivalent input noise -95dB residual noise (MIX L/R, ALT 3/4, AUX SEND1~ 2, CTRL ROOM OUT) -88dB (MIX L/R, ALT 3/4, AUX SEND1~ 2, CTRL ROOM OUT) * Master fader at nominal level and all channel fader Minimum.
Maximum Voltage Gain	84dB MIC IN TO MIX L/R 84dB MIC IN TO ALT3/4 76dB MIC IN TO AUX 1(PRE) 86dB MIC IN TO AUX 2(REV) 90dB MIC IN TO CONTROL ROOM L/R 62.2dB MIC IN TO REC L/R 54dB LINE IN TO MIX L/R 54dB LINE IN TO ALT3/4 46dB LINE IN TO AUX 1(PRE) 56dB LINE IN TO AUX 2(REV) 60dB LINE IN TO CONTROL ROOM L/R 44dB ST IN TO MIX L/R 44dB ST IN TO ALT3/4 16dB AUX RETURN IN TO MIX L/R 27.8dB TAPE IN TO MIX L/R
Crosstalk (at 1kHz)	-70dB between input channels -70dB between output channels
Gain Control(mono Input Channel)	44dB Variable (-60dB ~ -16dB), (-30dB ~ +14dB)
Gain Control(stereo Input Channel)	34dB Variable (-20dB ~ +14dB)
Input Channel Equalization	HIGH: 12kHz shelving MID : 2.5kHz peaking LOW: 80Hz shelving * Turnover/roll off frequencies: located 3dB below maximum boost/cut
LED Meters	10-Segment LEDx2 MIX L/R, ALT 3/4, AUX SEND1 ~ 2, CTRL ROOM
Channel Indicators	Peak: An indicator for each channel turns on when the pre-channel fader signal is 3dB below clipping.
Phantom Power	+48V DC
Power Source/Power Consumption	MX-1424/1424EX : AC 120V/230V/240V, 50/60Hz, 30W MX-1824/1824EX : AC 120V/230V/240V, 50/60Hz, 30W
Weight	MX-1424/1424EX : 7kg MX-1824/1824EX : 8kg
Dimensions(WxHxD)	MX-1424/1424EX : 482(W)x90(H)x354(D)mm MX-1824/1824EX : 556(W)x90(H)x354(D)mm

■ INPUT

Input Connector	Input Impedance	Nominal Input	Nominal Level	Connector Type
CH Mic	4kΩ	50 ~ 600Ω	-60dB	XLR 3-31 Type Balanced
CH Line	10kΩ	600Ω	-20dB	Phone Jack (TRS) T = Hot R = Cold S = GND
Stereo Input	5kΩ	600Ω	-10dB	Unbalanced Phone Jack
Aux Return 1~2	10kΩ	600Ω	+4dB	Unbalanced Phone Jack
Mono Channel Insert Input	10kΩ	600Ω	0dB	Phone Jack (TRS) T = Out R = In S = GND
Main Stereo Insert Input	10kΩ	600Ω	0dB	Phone Jack (TRS) T = Out R = In S = GND
Tape In	10kΩ	600Ω	-10dBV	RCA Pin Jack

■ OUTPUT

Output Connector	Output Impedance	Nominal Impedance	Nominal Impedance	Connector Type
MIX Out L/R	150Ω	600Ω	+4dB	XLR 3-32 Type
ALT 3/4	75Ω	600Ω	+4dB	Unbalanced Phone Jack
CTRL Room Out	75Ω	600Ω	+4dB	Unbalanced Phone Jack
Aux Send 1~2	75Ω	600Ω	+4dB	Unbalanced Phone Jack
Mono Channel Insert Input	600Ω	10kΩ	0dB	Phone Jack (TRS) T = Out R = In S = GND
Main Stereo Insert Input	10kΩ	600Ω	0dB	Phone Jack (TRS) T = Out R = In S = GND
Rec Out	600Ω	10kΩ	-10dBV	RCA Pin Jack
Phones Out	100Ω	40Ω	3mW	Stereo Phone Jack

* Specifications and design subject to change without notice for improvements.

ELECTRICAL PARTS LIST

Ref No.	Part No.	Description	Value
MAIN B'D (4005409600)			
AN101	4355738221	CON ASS'Y 3P FLAT 510MM	ASS'Y 3P
AN102	4355737725	CON ASS'Y 6P 650MM	ASS'Y 6P
AN103	4355737324	CON ASS'Y 12P S/D 600MM	ASS'Y 12P
AN105	4355737407	CON ASS'Y 12P FLAT 150MM	ASS'Y 12P
AN107	4355738211	CON ASS'Y 3P FLAT 230MM	ASS'Y 3P
AN108-109	4355738210	CON ASS'Y 3P FLAT 210MM	ASS'Y 3P
AN110	4355737510	CON ASS'Y 9P 210MM	ASS'Y 9P
AN111	4355738006	CON ASS'Y 4P FLAT 130MM	ASS'Y 4P
AN801	4428528212	CON WAFER 12FE-ST-VK-N/LA JST	12FE-ST-VK-N/LA
AN802	4428528214	CON WAFER 14FE-ST-VK-N/LA JST	14FE-ST-VK-N/LA
AN904	4355738016	CON ASS'Y 4P FLAT 360MM	ASS'Y 4P
C727	3409210072-T	CAP AF SE 10UF 50V 6.3X5(2.5MM)	10/50
C601-602 C627	3409210144-T	CAP SG 100UF 25V 2.5MM	100/25
C634 C639 C641			
C647 C649 C651			
C662 C707 C717			
C723 C731 C733			
C736 C758 C769			
C713 C742			
C133 C233 C333	3409210171-T	CAP AF RSG 100UF 50V 8 P	100/50
C433 C1031			
C2031 C3031			
C4031 C5031			
C6031			
C1010 C2010	3409210221-T	CAP AF RSG 1000UF 6.3V 10 P	1000/6.3
C3010 C4010			
C5010 C6010			
C134 C234 C334	3409233979-T	CAP SG 3.3UF 50V 2.5MM	3.3/50
C434 C1024			
C2024 C3024			
C4024 C5024			
C6024			
C101-102	3409247049-T	CAP SG 47UF 25V 2.5MM	47/25
C109-110			
C121-123 C125			
C131-132, C201-202			
C209-210			
C221-223 C225			
C231-232, C301-302			
C309-310			
C321-323 C325			
C331-332, C401-402			
C409-410			
C421-423 C425			
C431-432, C607-608			
C615-616			
C655-656 C660			
C668-669 C671			
C712 C716 C728			
C730 C738 C740			
C744 C746 C750			
C752 C754 C756			
C762 C775			
C1006-1007			

Ref No.	Part No.	Description	Value
C1012 C1020			
C1022, C1025-1026			
C2006-2007			
C2012 C2020			
C2022, C2025-2026			
C3006-3007			
C3012 C3020			
C3022, C3025-3026			
C4006-4007			
C4012 C4020			
C4022, C4025-4026			
C5006-5007			
C5012 C5020, C5022			
C5025-5026			
C6006-6007			
C6012 C6020, C6022			
C6025-6026			
C622 C629 C722	3409247079-T	CAP SG 47UF 50V 2.5MM	47/50
C726			
C1001 C1004-1005	3409247081-T	CAP AF SG 47UF 63V 8 P	47/63
C2001 C2004-2005			
C3001 C3004-3005			
C4001 C4004-4005			
C5001 C5004-5005			
C6001 C6004-6005			
C701-706	3409247979-T	CAP SG 4.7UF 50V 2.5MM	4.7/50
C1014 C2014	3609152120-T	CAP MA 0.0015UF 100V J	0.0015(M)
C3014 C4014			
C5014 C6014			
C115-116	3609182120-T	CAP MA 0.0018UF 100V J	0.0018(M)
C215-216, C315-316			
C415-416			
C1015 C2015	3609222120-T	CAP MA 0.0022UF 100V J	0.0022(M)
C3015 C4015			
C5015 C6015			
C111-114	3609223120-T	CAP MA 0.022UF 100V J	0.022(M)
C211-214, C311-314			
C411-414			
C1016 C2016	3609392120-T	CAP MA 0.0039UF 100V J	0.0039(M)
C3016 C4016			
C5016 C6016			
C1017-1018	3609473120-T	CAP MA 0.047UF 100V	0.047(M)
C2017-2018			
C3017-3018			
C4017-4018			
C5017-5018			
C6017-6018			
C605-606 C657	S35100501331	CAP CE C 5PF 50V C 0805(2012)	5P
C670			
C117-118 C217-218	S35101001331	CAP CE C 10PF 50V C 0805(2012)	10P
C317-318			
C417-418 C1019			
C2019 C3019			
C4019 C5019, C6019			
C760 C771	S35101001331	CAP CE C 10PF 50V C 0805(2012)	10P
C103-104	S35101014331	CAP CE C 100PF 50V J 0805(2012)	100P

Ref No.	Part No.	Description	Value
R4017-4018 R5017-5018 R6017-6018 R1014-1015 R2014-2015 R3014-3015 R4014-4015 R5014-5015 R6014-6015	3003470953	RES CF 4.7K 1/5W F N	4.7K 1%
R1001-1002 R2001-2002 R3001-3002 R4001-4002 R5001-5002 R6001-6002	3003680953	RES CF 6.8K 1/5W F N	6.8K 1%
R718-719 R1008 R2008 R3008 R4008 R5008 R6008	3089100275 3089101275	RES NFR 10 1/4W J R PHILKO RES NFR 100 1/4W J R PHILKO	FR 10 FR 100
R101-102 R115 R119 R201-202 R215 R219 R301-302 R315 R319 R401-402 R415 R419 R613-615 R619-621 R729 R732 R737 R739 R743-744 R1029 R2029 R3029 R4029 R5029 R6029	S30101017231	RES TF 100 1/10W 2012	100
R524 R741 R771 R117 R121 R135 R217 R221 R235 R317 R321 R335 R417 R421 R435 R603-606 R618 R624 R704 R742 R1021 R1027 R1032 R1045 R2021 R2027 R2032 R2045 R3021 R3027 R3032 R3045 R4021 R4027 R4032 R4045 R5021 R5027 R5032 R5045 R6021 R6027 R6032 R6045 R708	S30101027231 S30101037231	RES TF 1K 1/10W 2012 RES TF 10K 1/10W 2012	1K 10K
R123 R138 R223 R238 R323 R338 R423 R438 R607-608 R652 R659 R728 R731 R735-736 R738 R740 R755 R759	S30101047231	RES TF 100K 1/10W 2012	100K

Ref No.	Part No.	Description	Value
R1007 R1028 R1034 R2007 R2028 R2034 R3007 R3028 R3034 R4007 R4028 R4034 R5007 R5028 R5034 R6007 R6028 R6034			
R107 R109-111 R113-114 R207 R209-211 R213-214 R307 R309-311 R313-314 R407 R409-411, R413-414	S30101137231	RES TF 11K 1/10W 2012	11K
R511-512 R1024 R2024 R3024 R4024 R5024 R6024	S30101237231	RES TF 12K 1/10W 2012	12K
R1016 R2016 R3016 R4016 R5016 R6016	S30101507231		15
R650 R657 R703 R707 R711 R714	S30101537231 S30101817230	RES TF 15 1/10W 2012 RES TF 180 J 1/10W 2012	15K 180
R773 R124 R129-134 R139 R224 R229-234 R239 R324 R329-334 R339 R424 R429-434 R439 R515 R720-723 R733-734 R745 R749 R753 R757	S30101827451 S30101837231	RES TF 1.8K 1/4W 3225 RES TF 18K 1/10W 2012	1.8K 1/4W 18K
R1036-1044 R2036-2044 R3036-3044 R4036-4044 R5036-5044 R6036-6044 R516 R519-520			
R717 R702 R710 R617 R623 R118 R122 R218 R222 R318 R322 R418 R422 R601-602 R649 R656 R1030 R2030 R3030 R4030 R5030 R6030	S30102027231 S30102037231 S30102237231 S30102437231	RES TF 2K 1/10W 2012 RES TF 20K 1/10W 2012 RES TF 22K 1/10W 2012 RES TF 24K 1/10W 2012	2K 20K 22K 24K
R727 R730 R724-725 R1025	S30102737231 S30103037231	RES TF 27K 1/10W 2012 RES TF 30K 1/10W 2012	27K 30K

Ref No.	Part No.	Description	Value
U3001-3002			
U4001-4002			
U5001-5002			
U6001-6002			
U103 U203 U303			
U403 U601-602			
U603 U710			
U708 U606-607	S21101083203	IC NJM4580E EMP-8 JRC	4580
U604-605			
U706	2168220994	IC NJM 4556AL	4556
U702 U704	2118040105	KIA6967S	6967
U701 U703	2118030405	KIA6966S	6966
VR504-505 VR705-706	3228068910	VR XV09213NPV30F-15A20K(20KA)	20KA
VR1006-1007			
VR2006-2007			
VR3006-3007			
VR4006-4007			
VR5006-5007			
VR6006-6007			
VR1001 VR2001	3228068920	VR XV09213NPV30F-10C20K(20KRD)	20KRD
VR3001 VR4001			
VR5001 VR6001			
VR1002-1004	3228068930	VR XV09213NPV30F-1B50KCC(50KB)	50KB
VR2002-2004			
VR3002-3004			
VR4002-4004			
VR5002-5004			
VR6002-6004			
VR102-103	3228069010	"VR XV012313GPV30F-1B50KX2CC,NO"	50KB*2
VR202-203			
VR302-303			
VR402-403			
VR501-503	3228069020	"VR XV012313GPV30F-15A20KX2,NOB"	20KA*2
VR105 VR107			
VR205 VR207			
VR305 VR307			
VR405 VR407			
VR701 VR703			
VR106 VR206	3228069030	VR XV012313GPV30F-15A15C20KX2C	20KAC*2
VR306 VR406			
VR1008 VR2008			
VR3008 VR4008			
VR5008 VR6008			
VR101 VR201	3228069040	"VR XV012313GPV30F-10C20KX2,NOB"	20KRD*2
VR301 VR401			
VR601-602	3238079710	VR EWAQ10C15A14(10KA)	10KA
VR1005 VR2005			
VR3005 VR4005			
VR5005 VR6005			
VR104 VR204	3238079720	VR EWAQJ0C15A14(10KAX2)	10KA
VR304 VR404			
VR603			
VR801-807	3238080010	RS20H123D12B-23W	20KW*2
ZD701	2058502240	DIODE ZENER UZ-24BM(1N5252B)	UZ 24BM
ZD702	2058503120	"DIODE ZENER UZ-12BH(12.0,12.6)"	UZ 12BH

Ref No.	Part No.	Description	Value
6CH INSERT B'D (4003482120)			
CN105	4428594912	LA5268/LAB0640/2.5MM-12P	5268-12
JK1003 JK2003	4438097310	JACK PHONE 4P	PHONE JACK
JK3003 JK4003			
JK5003 JK6003			
R1006 R2006 R3006	S30101007231	RES TF 10 1/10W 2012	10
R4006 R5006 R6006			
R1005 R2005 R3005	S30101017231	RES TF 100 1/10W 2012	100
R4005 R5005 R6005			
AUX RETURN B'D (4003482110)			
C503-504 C509-510	3409247049-T	CAP SG 47UF 25V 2.5MM	47/25
C516-519			
C617-618 C763			
C767 C776 C778			
C501-502 C512-515	S35101014331	CAP CE C 100PF 50V J 0805(2012)	100P
C619-620 C661			
C672 C768 C779			
C507-508 C765-766	S35101035331	CAP CE B0.01UF 50V K 0805(2012)	0.01/50
C505-506 C764 C777	S35104704331	CAP CE C 47PF 50V J 0805(2012)	47P
CN903	4428594905	LA5268/LAB0640/2.5MM-05P	5268-05
CN102	4428594906	LA5268/LAB0640/2.5MM-06P	5268-06
CN103	4428594912	LA5268/LAB0640/2.5MM-12P	5268-12
CNT	4647699411	CNT PLUG 1P	PLUG 1P
JK501	4438095210	JACK RCA 4P	RCA JACK
JK502-505 JK606-607	4438097310	JACK PHONE 4P	PHONE JACK
JK704-705			
R501-504 R513-514	S30101017231	RES TF 100 1/10W 2012	100
R517-518			
R764 R769	S30101047231	RES TF 100K 1/10W 2012	100K
R509-510	S30101137231	RES TF 11K 1/10W 2012	11K
R611-612	S30101227231	RES TF 1.2K 1/10W 2012	1.2K
R609-610	S30101527231	RES TF 1.5K 1/10W 2012	1.5K
R762 R767	S30101837231	RES TF 18K 1/10W 2012	18K
R505-506	S30104737231	RES TF 47K 1/10W 2012	47K
R763 R768	S30106237231	RES TF 62K 1/10W 2012	62K
R653 R660 R765	S30107507231	RES TF 75 1/10W 2012	75
R770			
R507-508	S30107527230	RES TF 7.5K J 1/10W 2012	7.5K
R715	3039122575-T	RES MO 1.2K 2W J RADIAL	1.2K 2W
SW609	4618001110	SW SV10020-0202-9T-SN	PHANTOM SW
U501	S21101080002	IC 2068 SOIC8	2068
U711	S21101083203	IC NJM4580E EMP-8 JRC	4580
H/P B'D (4003482110)			
C737 C743	S35101014331	CAP CE C 100PF 50V J 0805(2012)	100P
CN107	4428595003	LW5267/LWB0640/2.5MM-03P	5267-03
JK701	4438192910	PHONE JACK (5P) METAL	PHONE JACK
R748 R752	3039101472-T	RES MO 100 1W T	100 1W
R747 R751	S30101047231	RES TF 100K 1/10W 2012	100K
POWER B'D (4003482100)			
AN803	4355737816	CON ASSY 6P FLAT 360MM	ASSY 6P
AN903	4355737912	CON ASSY 5P FLAT 250MM	ASSY 5P
C921	3408210191	CAP RSA 100UF 100V SNAP 13 P	100/100
C903-904	3408247149	CAP AF SG 470UF 25V	470/25
C920	3409210181-T	CAP AF RSG 100UF 63V	100/63
C907-908 C915-916	3409210267	CAP SD 1000UF 35V	1000/35
C925	3409233237	CAP AF SD 3300UF 16V	3300/16

Ref No.	Part No.	Description	Value
C924	3409247071-T	CAP AF RSG 47UF 50V 6 P	47/50
C919	3419547091-T	CAP E SG 47UF/100V 10 P	47/100
C917-918 C922-923 C926-929	3509103450-T	CAP CE 0.01UF 500V Z	0.01/500
C901-902 C905-906	3509104530-T	CAP CE F 0.1UF 50V Z	0.1/50
C932	3549103107	CAP DE2F3KH103MA4B	0.01/400
CN901	4428595003	LW5267/LWB0640/2.5MM-03P	5267-03
CN904	4428595004	LW5267/LWB0640/2.5MM-04P	5267-04
CN906	4428595007	LW5267/LWB0640/2.5MM-07P	5267-07
CN907-908	4428525202	CON WAFER LA/B2PS-VH/7.92 JST	WAFER 2P(7.92)
CN909-910	4428533202	CON WAFER LA395/P02/3.96 JST	WAFER 2P(3.96)
CNT1	4647699411	CNT PLUG 1P	PLUG 1P
D905	2058100981	DIODE BRIDGE KBU402 PBU402	PBU 402
D901-902 D906-913	2058100996	DIODE RECTIFIER LT1N4006(4007)	1N 4006
F901-904	4458999110	FUSE CLIP 5*20	
GND1	4235007210	GND TERMINAL (POWER B'D)	GND
Q901	2028407990	KTC4370A-Y-U	KTC 4370
R902	S30102237231	RES TF 22K 1/10W 2012	22K
U901	2168640988	IC 7815 SAMSUNG	7815
U902	2168640987	IC 7915 SAMSUNG	7915
U905	2128611206	IC 7805 G.S	7805
ZD901-902	2058502240	DIODE ZENER UZ-24BM(1N5252B)	UZ 24BM
AC INPUT B'D (4003482130)			
C932	3549103107	CAP DE2F3KH103MA4B	0.01/400
CN907-908	4428525202	CON WAFER LA/B2PS-VH/7.92 JST	WAFER 2P(7.92)
CN909-910	4428533202	CON WAFER LA395/P02/3.96 JST	WAFER 2P(3.96)
F905	4458999110	FUSE CLIP 5*20	
4CH MONO INPUT B'D (4003482000) ▷MX-1824/1824EX			
AN120	4355737607	CON ASSY 8P FLAT 150MM	ASSY 8P
C1131 C2131	3409210171-T	CAP AF RSG 100UF 50V 8 P	100/50
C3131 C4131			
C1110 C2110	3409210221-T	CAP AF RSG 1000UF 6.3V 10 P	1000/6.3
C3110 C4110			
C1124 C2124	3409233979-T	CAP SG 3.3UF 50V 2.5MM	3.3/50
C3124 C4124			
C1106-1107	3409247049-T	CAP SG 47UF 25V 2.5MM	47/25
C1112 C1120 C1122			
C1125-1126			
C2106-2107			
C2112 C2120 C2122			
C2125-2126			
C3106-3107			
C3112 C3120 C3122			
C3125-3126			
C4106-4107			
C4112 C4120 C4122			
C4125-4126			
C1101 C1104-1105	3409247081-T	CAP AF SG 47UF 63V 8 P	47/63
C2101 C2104-2105			
C3101 C3104-3105			
C4101 C4104-4105			
C1114 C2114	3609152120-T	CAP MA 0.0015UF 100V J	0.0015(M)
C3114 C4114			
C1115 C2115	3609222120-T	CAP MA 0.0022UF 100V J	0.0022(M)
C3115 C4115			

Ref No.	Part No.	Description	Value
C1116 C2116	3609392120-T	CAP MA 0.0039UF 100V J	0.0039(M)
C3116 C4116			
C1117-1118	3609473120-T	CAP MA 0.047UF 100V	0.047(M)
C2117-2118			
C3117-3118			
C4117-4118			
C1119 C2119	S35101001331	CAP CE C 10PF 50V C 0805(2012)	10P
C3119 C4119			
C1111 C1113	S35101014331	CAP CE C 100PF 50V J 0805(2012)	100P
C2111 C2113			
C3111 C3113			
C4111 C4113			
C1102-1103	S35101024331	CAP CE C 1000PF 50V 0805(2012)	1000P
C2102-2103			
C3102-3103			
C4102-4103			
C1121 C1127-1130	S35101035331	CAP CE B0.01UF 50V K 0805(2012)	0.01/50
C2121 C2127-2130			
C3121 C3127-3130			
C4121 C4127-4130			
C1123 C2123	S35102205331	CAP CE B 22PF 50V K 0805(2012)	22P
C3123 C4123			
C1108 C2108	S35104714331	CAP CE 470P 50V K 2012	470P
C3108 C4108			
C1109 C2109			
C3109 C4109			
CN108-109	4428595003	LW5267/LWB0640/2.5MM-03P	5267-03
CN111	4428595004	LW5267/LWB0640/2.5MM-04P	5267-04
CN110	4428595009	LW5267/LWB0640/2.5MM-09P	5267-09
D1101-1105	S22100500001	DIODE 1N4148 GP SMD	1N4148
D2101-2105			
D3101-3105			
D4101-4105			
JK1102 JK2102	4438192910	PHONE JACK (5P) METAL	PHONE JACK
JK3102 JK4102			
JK1101 JK2101	4438193810	XLR JACK(F) 3P(E203A0040N)	E203A0040N(F)
JK3101 JK4101			
LD1101 LD2101	2300030100	LED LTL-1CHE LITEON	RED
LD3101 LD4101			
Q1101-1102	2008207100-T	TR PNP 2SA 970BL-TPE2	2SA 970BL
Q2101-2102			
Q3101-3102			
Q4101-4102			
R1117-1118	3003220953	RES CF 2.2K 1/5W F N	2.2K 1%
R2117-2118			
R3117-3118			
R4117-4118			
R1114-1115	3003470953	RES CF 4.7K 1/5W F N	4.7K 1%
R2114-2115			
R3114-3115			
R4114-4115			
R1101-1102	3003680953	RES CF 6.8K 1/5W F N	6.8K 1%
R2101-2102			
R3101-3102			
R4101-4102			
R1108 R2108	3089101275	RES NFR 100 1/4W J R PHILKO	FR 100

Ref No.	Part No.	Description	Value
R3108 R4108 R1129 R2129 R3129 R4129	S30101017231	RES TF 100 1/10W 2012	100
R1121 R1127 R1132 R1145 R2121 R2127 R2132 R2145 R3121 R3127 R3132 R3145 R4121 R4127 R4132 R4145	S30101037231	RES TF 10K 1/10W 2012	10K
R1107 R1128 R1134 R2107 R2128 R2134 R3107 R3128 R3134 R4107 R4128 R4134	S30101047231	RES TF 100K 1/10W 2012	100K
R1124 R2124 R3124 R4124	S30101237231	RES TF 12K 1/10W 2012	12K
R1116 R2116 R3116 R4116	S30101507231	RES TF 15 1/10W 2012	15
R1136-1144 R2136-2144 R3136-3144 R4136-4144	S30101837231	RES TF 18K 1/10W 2012	18K
R1130 R2130 R3130 R4130	S30102437231	RES TF 24K 1/10W 2012	24K
R1125 R2125 R3125 R4125	S30103037231	RES TF 30K 1/10W 2012	30K
R1133 R1135 R2133 R2135 R3133 R3135 R4133 R4135	S30103337231	RES TF 33K 1/10W 2012	33K
R1122 R2122 R3122 R4122	S30104727231	RES TF 4.7K 1/10W 2012	4.7K
R1146 R2146 R3146 R4146	S30104727451	RES TF 4.7K 1/4W 3225	4.7K 1/4W
R1131 R2131 R3131 R4131	S30104737231	RES TF 47K 1/10W 2012	47K
R1123 R2123 R3123 R4123	S30106837231	RES TF 68K 1/10W 2012	68K
R1126 R2126 R3126 R4126	S30108227231	RES TF 8.2K 1/10W 2012	8.2K
R1119-1120 R2119-2120 R3119-3120 R4119-4120	S30121805230	RES TF 18K F 1/10W 2012	18K 1%
R1103-1104 R2103-2104 R3103-3104 R4103-4104	S30124305230	RES TF 43K F 1/10W 2012	43K 1%
R1109-1110 R2109-2110 R3109-3110 R4109-4110	S30135605230	RES TF 5.6K F 1/10W 2012	5.6K 1%
R1111 R2111 R3111 R4111	S30136805230	RES TF 6.8K F 1/10W 2012	6.8K 1%
R1112-1113 R2112-2113 R3112-3113	S30151005230	RES TF 10 F 1/10W 2012	10 1%

Ref No.	Part No.	Description	Value
R4112-4113 SW1101 SW2101 SW3101 SW4101 SW1102 SW2102 SW3102 SW4102	4628980120	SW PUSH JPS4281A JEIL	JPS4281A
U1101-1102 U2101-2102 U3101-3102 U4101-4102	S21101080002	IC 2068 SOIC8	2068
VR1106-1107 VR2106-2107 VR3106-3107 VR4106-4107	3228068910	VR XV09213NPV30F-15A20K(20KA)	20KA
VR1101 VR2101 VR3101 VR4101	3228068920	VR XV09213NPV30F-10C20K(20KRD)	20KRD
VR1102-1104 VR2102-2104 VR3102-3104 VR4102-4104	3228068930	VR XV09213NPV30F-1B50KCC(50KB)	50KB
VR1108 VR2108 VR3108 VR4108	3228069030	VR XV012313GPV30F-15A15C20KX2C	20KAC*2
VR1105 VR2105 VR3105 VR4105	3238079710	VR EWAQ10C15A14(10KA)	10KA
4CH INSERT B'D (4003481800) ▷MX-1824/1824EX			
CN120 JK1103 JK2103 JK3103 JK4103	4428594908 4438097310	LA5268(LAB0640)2.5MM-08P JACK PHONE 4P	5268-08 PHONE JACK
R1106 R2106 R3106 R4106	S30101007231	RES TF 10 1/10W 2012	10
R1105 R2105 R3105 R4105	S30101017231	RES TF 100 1/10W 2012	100
DSP/EQ B'D (4003482900) ▷MX-1424EX/1824EX			
C868 C871 C805 C822 C806 C823 C853 C861 C870 C845 C852 C859 C880-881 C850 C803 C820 C819 C836 C816 C833 C813 C830 C817 C834 C811 C814 C828 C831 C815 C818 C832 C835 C809 C812 C826 C829 C807 C810 C824 C827 C808 C825 C851 C862 C864	3409210023-T 3409210144-T 3409210973-T 3409222033-T 3409222071-T 3409247033-T 3409247049-T 3509821130-T 3609103120-T 3609123120-T 3609182120-T 3609273120-T 3609472120-T 3609683120-T 3639184111-T 3639394111-T S35101024331	CAP AF SE 10U/50V 6.4X5 (5MM) CAP SG 100UF 25V 2.5MM CAP E SE 1UF 50V 3*5 CAP E SE 22UF 16V 5*5 CAP AF RSG 22UF 50V 5 P CAP E SE 47UF 16V 6.3*5 CAP SG 47UF 25V 2.5MM CAP CE B 820PF 50V K CAP MA 0.01UF 100V CAP MA 0.012UF 100V J CAP MA 0.0018UF 100V J CAP MA 0.027UF 100V J CAP MA 0.0047UF 100V J CAP MA 0.068UF 100V J CAP EQQ-V 1H184JL2 0.18UF 50V CAP EQQ-V 1H394JL2 0.39UF 50V CAP CE C 1000PF 50V 0805(2012)	10/50 100/25 1/50 22/16 22/50 47/16 47/25 820P 0.01(M) 0.012(M) 0.0018(M) 0.027(M) 0.0047(M) 0.068(M) 0.18/50(M) 0.39/50(M) 1000P

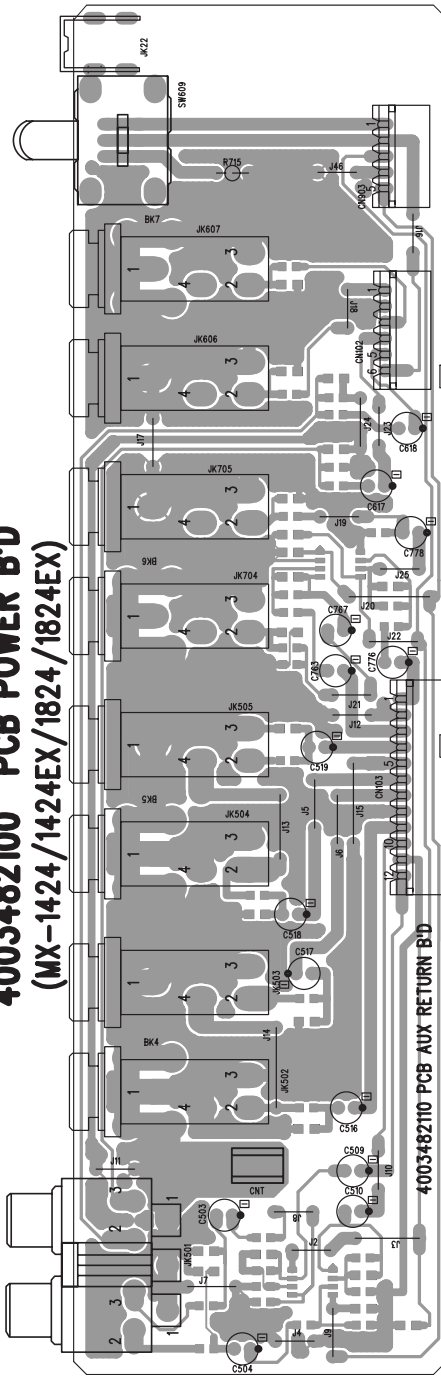
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C801-802 C837-844 C867 C869 C872-879 C849 C863 C865 C866 C854-855 C860 C804 C821 C846-848 C856-858 CN801 CN802 CN804 CN803 D801-802 F801 P1-3 Q803 Q801-802 R805 R825 R861 R845-848 R851 R859-860 R863 R865-866 R802-803 R806 R821-822 R826 R852 R862 R853 R855-857 R801 R804 R823-824 R849 R841-844 R854 R858 R864 R850 R807 R809 R811 R813 R815 R817 R819 R827 R829 R831 R833 R835 R837 R839 R808 R810 R812 R814 R816 R818 R820 R828 R830 R832 R834 R836 R838 R840 U801-808 U811-812 U813 U810 U809 X801	S35101035331 S35101045331 S35102214331 S35102225331 S35103304331 S35104704331 S35104714331 S35104734331 4428528112 4428528114 4428594904 4428594906 S22100500001 3908609980 4355738417 2008606998-T S20510405004 S30101017231 S30101027231 S30101037231 S30101047231 S30101537231 S30102727231 S30103317231 S30103327231 S30104727231 S30105617231 S30105637231 S21101080002 2128130800 2128220700 2128330600 3938000946	CAP CE B0.01UF 50V K 0805(2012) CAP CE B 0.1UF 50V Z 0805(2012) CAP CE X7R 220PF 50V K 2012 CAP CE 0.0022UF 50V K 2012 CAP CE 33PF 50V J 2012 CAP CE C 47PF 50V J 0805(2012) CAP CE 470P 50V K 2012 CAP CE 4700PF 50V J 2012 CON WAFER 12FE-BT-VK-N JST CON WAFER 14FE-BT-VK-N JST LA5268/LAB0640(2.5MM-04P LA5268/LAB0640(2.5MM-06P DIODE 1N4148 GP SMD EMI FILTER 2200PF CON ASS'Y 1P GND 390M KTD1302-AT 2N3906S-RTK RES TF 100 1/10W 2012 RES TF 1K 1/10W 2012 RES TF 10K 1/10W 2012 RES TF 100K 1/10W 2012 RES TF 15K 1/10W 2012 RES TF 2.7K 1/10W 2012 RES TF 330 1/10W 2012 RES TF 3.3K 1/10W 2012 RES TF 4.7K 1/10W 2012 RES TF 560 1/10W 2012 RES TF 56K 1/10W 2012 IC 2068 SOIC8 IC CS4811 DSP (CRYSTAL) IC MN13811T PANASONIC (RESET) IC 25LC640CSN EEPROM 64K MICCH X-TAL 8.192MHz(49S)	0.01/50 0.1/50 220P 2200P/50 33P 47P 470P 47000P 12FE-BT-VK-N 14FE-BT-VK-N 5268-04 5268-06 1N4148 2200PF KTD 1302 2N3906 100 1K 10K 100K 15K 2.7K 330 3.3K 4.7K 560 56K 2068 CS4811 MN13811T 25LC640CSN 8.192MHz
DSP SW B'D (4003481910) ▷MX-1424EX/1824EX			
AN804 SW801	4355738107 4658099210	CON ASS'Y 4P FLAT(LA) 150MM SW ROTARY 94HBB08(GRAYHILL)	ASS'Y 4P GRAYHILL
ASS'Y			
CABLE CABLE	4355737100 4355737200	FLEXIBLE FLAT CABLE 14P 350MM FLEXIBLE FLAT CABLE 12P 350MM	CABLE 14P CABLE 12P

Ref No.	Part No.	Description	Value
CON POWER SW FUSE FUSE FUSE POWER TRANS AC CORD	4355738314 4648099310 C5508411934 C5508412234 C5508412134 C5508411634 2828059400 2828059420 4308989910 4308999910 4308989810 4308998610 4308000430 4308990110 4308989710 4308995710 4308990010 4308999210	CON ASSY 2P 300MM POWER SWITCH (H8500VB) FUSE T 20MM 630MA/250V U/C/S/V FUSE TSD 20MM 1A/250V U/C/S/V FUSE T 20MM 800MA/250V U/C/S/V FUSE T 20MM 400MA/250V U/C/S/V TRANS POWER MX-1824EX (120V) TRANS POWER MX-1824EX (230V) AC CORD ASS'Y(U/V) MX-1424EX CORD AC UL 3CORES AC CORD ASS'Y(DOM) MX-1424EX EV.300V L:2200)EQ-825 AC CORD POWER(EUROPE KEMA) AC CORD EUROPE ASS'Y AC CORD ASS'Y(BSI) MX-1424EX AC CORD H05VVH2F (B S I) AC CORD ASS'Y(SAA) MX-1424EX AC UP502+0CSA0.75MM2*3C200MM	ASSY 2P POWER SW 630mA/250V 1A/250V 120V (E) 220V~240V (C,D,R,DOM) 120V (E) 220V ~240V (C,D,R,DOM) 120V (E) 120V (E) 220V (DOM) 220V (DOM) 230V (R) 230V (R) 230V~240V(C) 230V~240V(C) 240V (D) 240V (D)

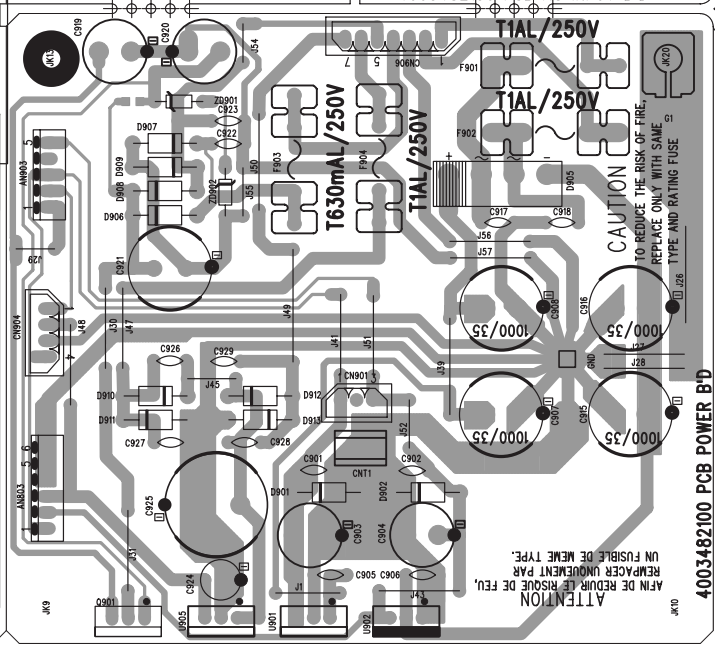
TOP AND BOTTOM VIEW OF P.C. BOARD

- POWER B'D

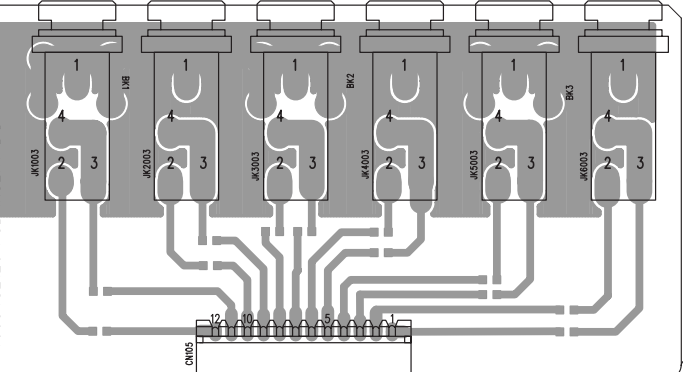
4003482100 PCB POWER B'D (MX-1424/1424EX/1824/1824EX)



4003482110 PCB AUX RETURN B'D



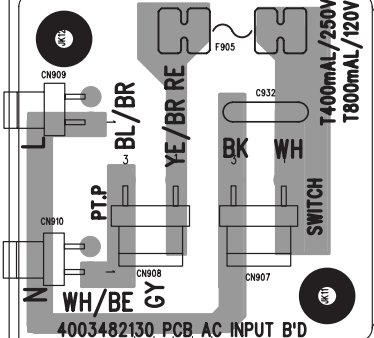
4003482120 PCB INSERT B'D



DIP IN

V1	V2	OP	ICT

4003482130 PCB AC INPUT B'D

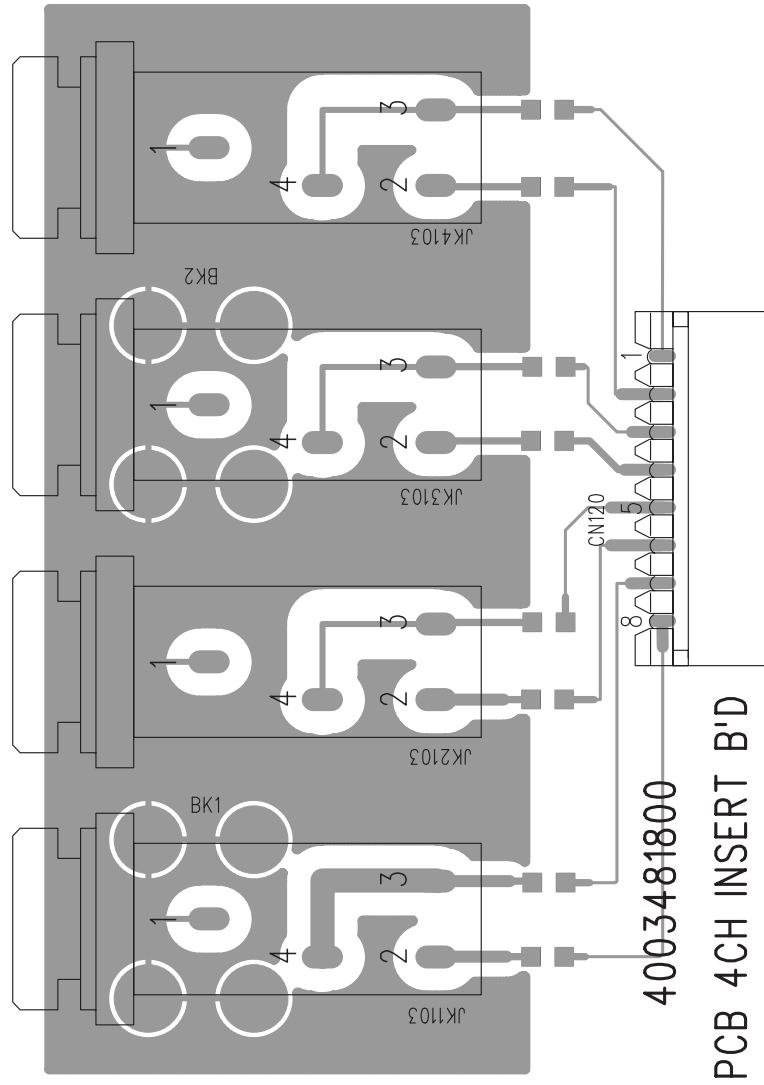


ATTENTION
AFIN DE REDUIRE LE RISQUE DE FEU,
REMPACER L'UNIONNEMENT PAR
UN FUSIBLE DE MEME TYPE.
CAUTION
TO REDUCE THE RISK OF FIRE,
REPLACE ONLY WITH SAME
TYPE AND RATING FUSE.

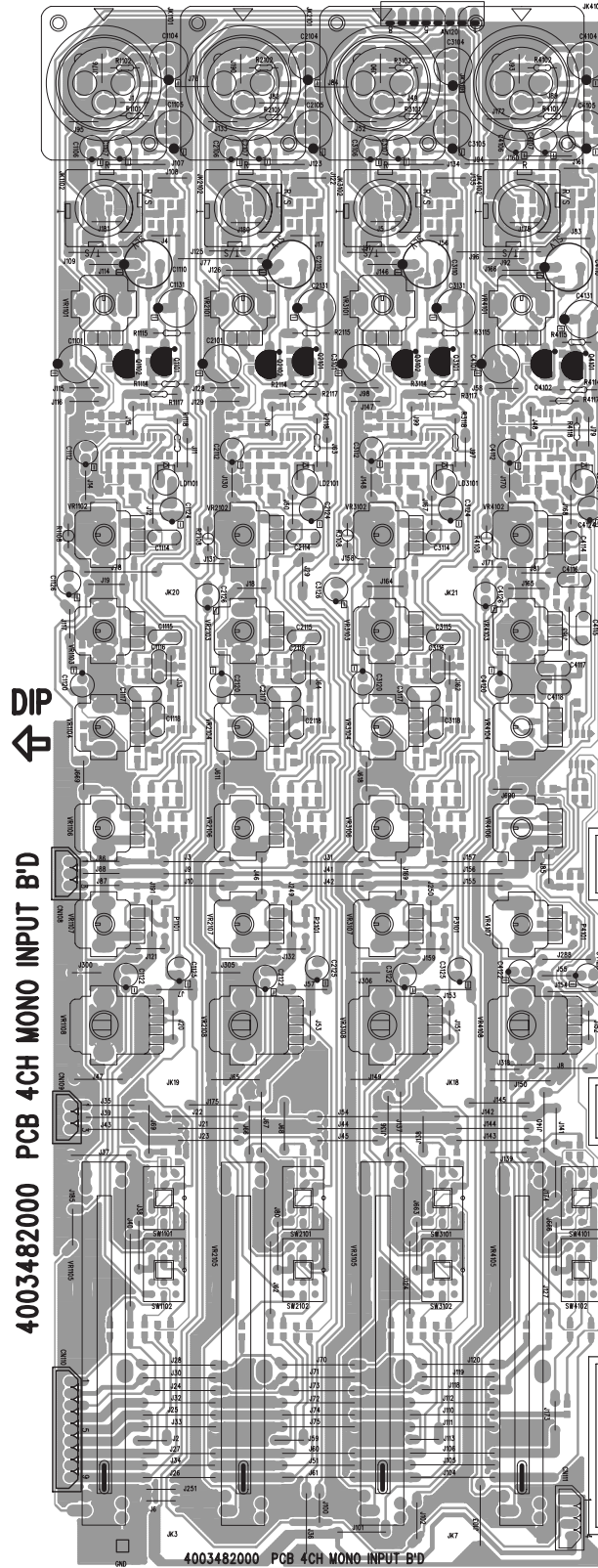
4003482100 PCB POWER B'D

- 4CH INSERT B'D

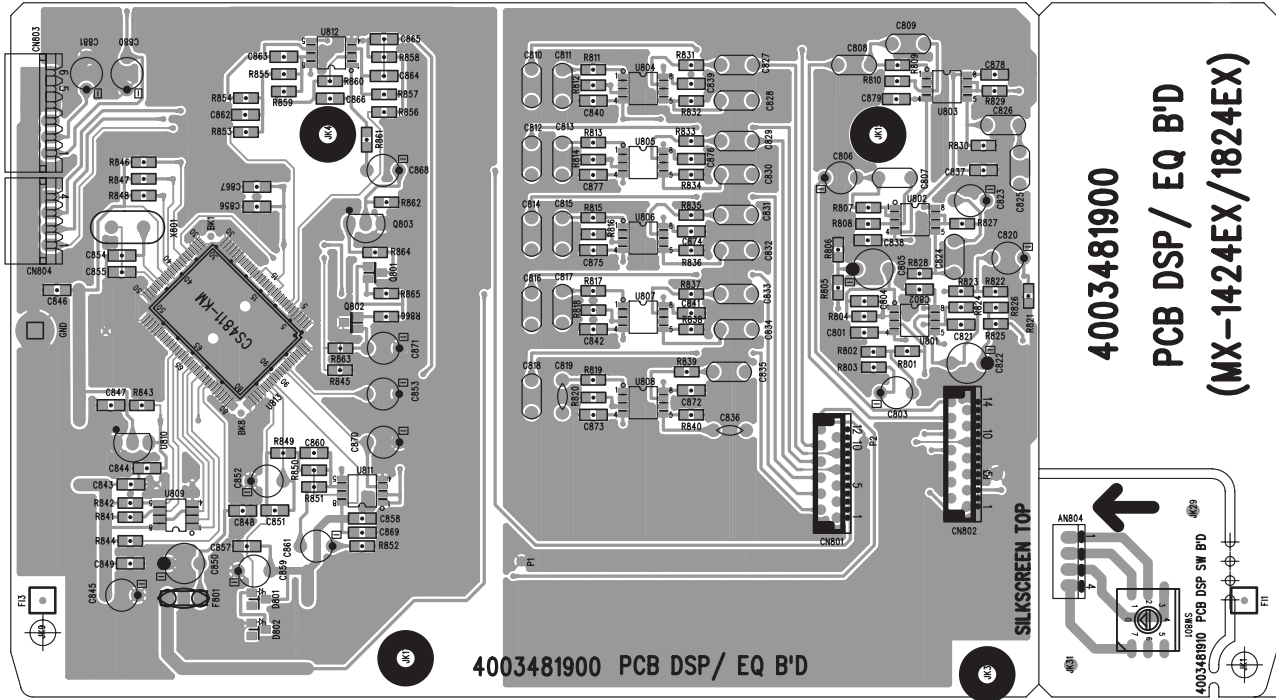
4003481800
PCB 4CH INSERT B'D



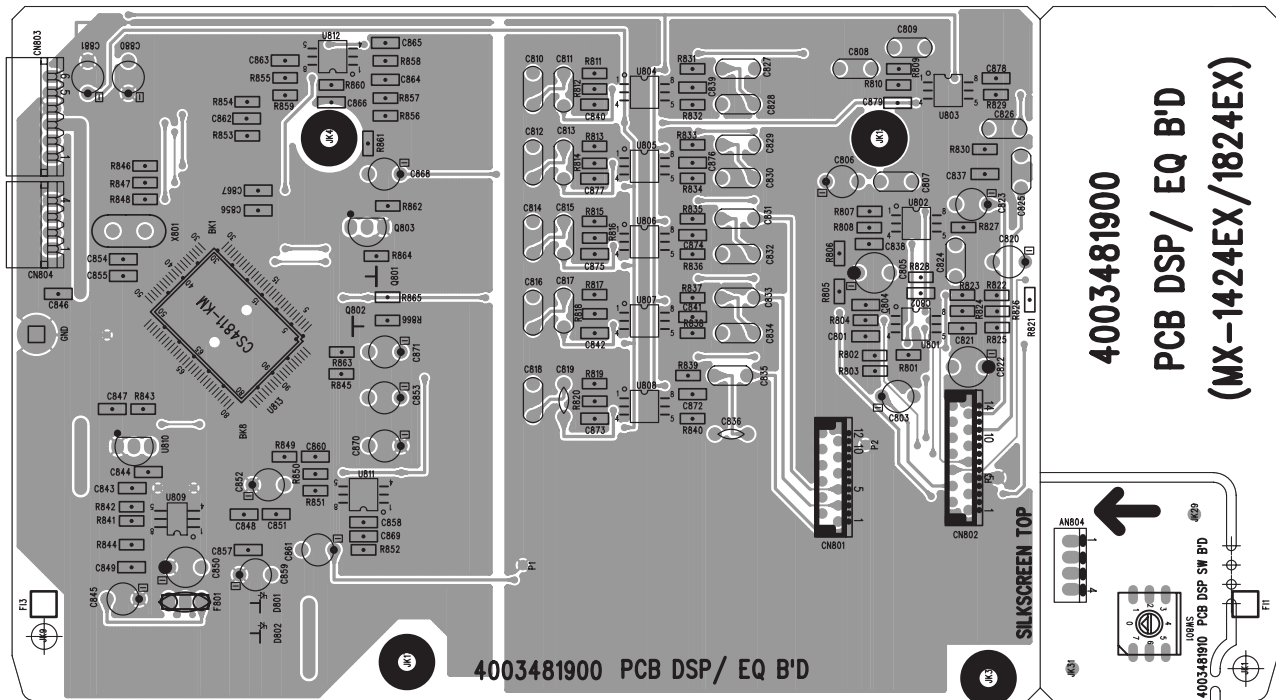
- 4CH MONO INPUT B'D



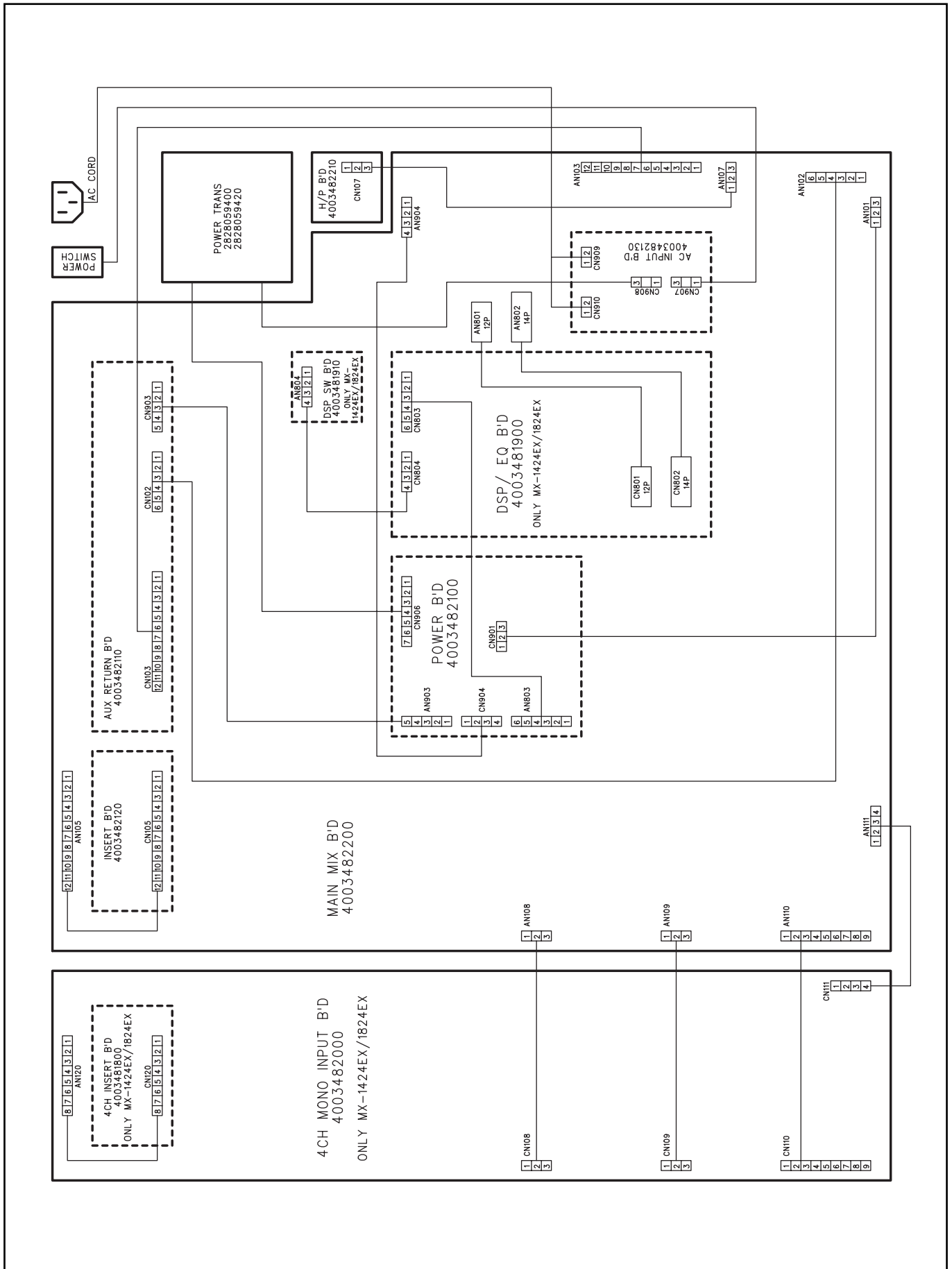
- DSP/EQ B'D (TOP)



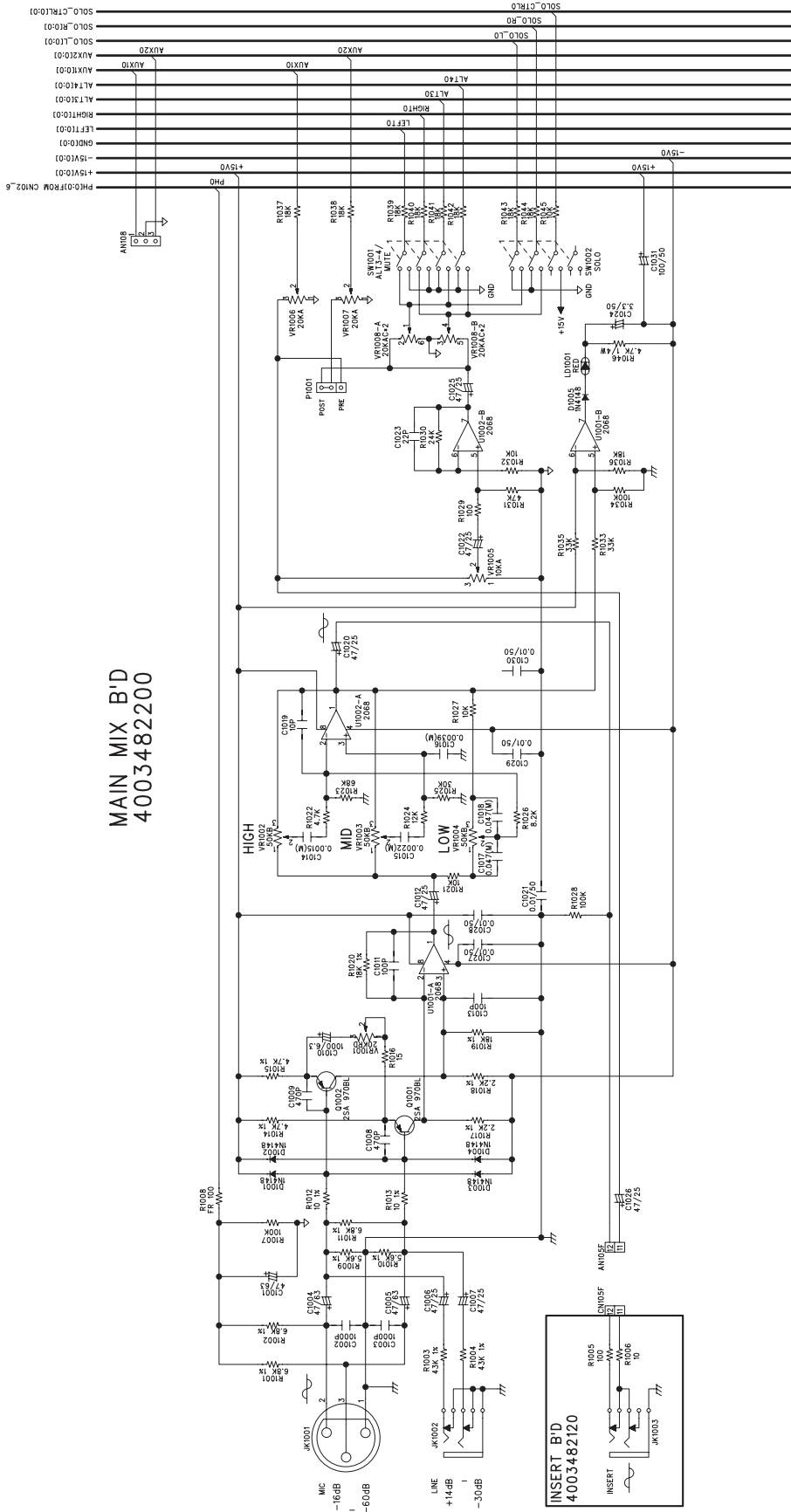
- DSP/EQ B'D (BOTTOM)



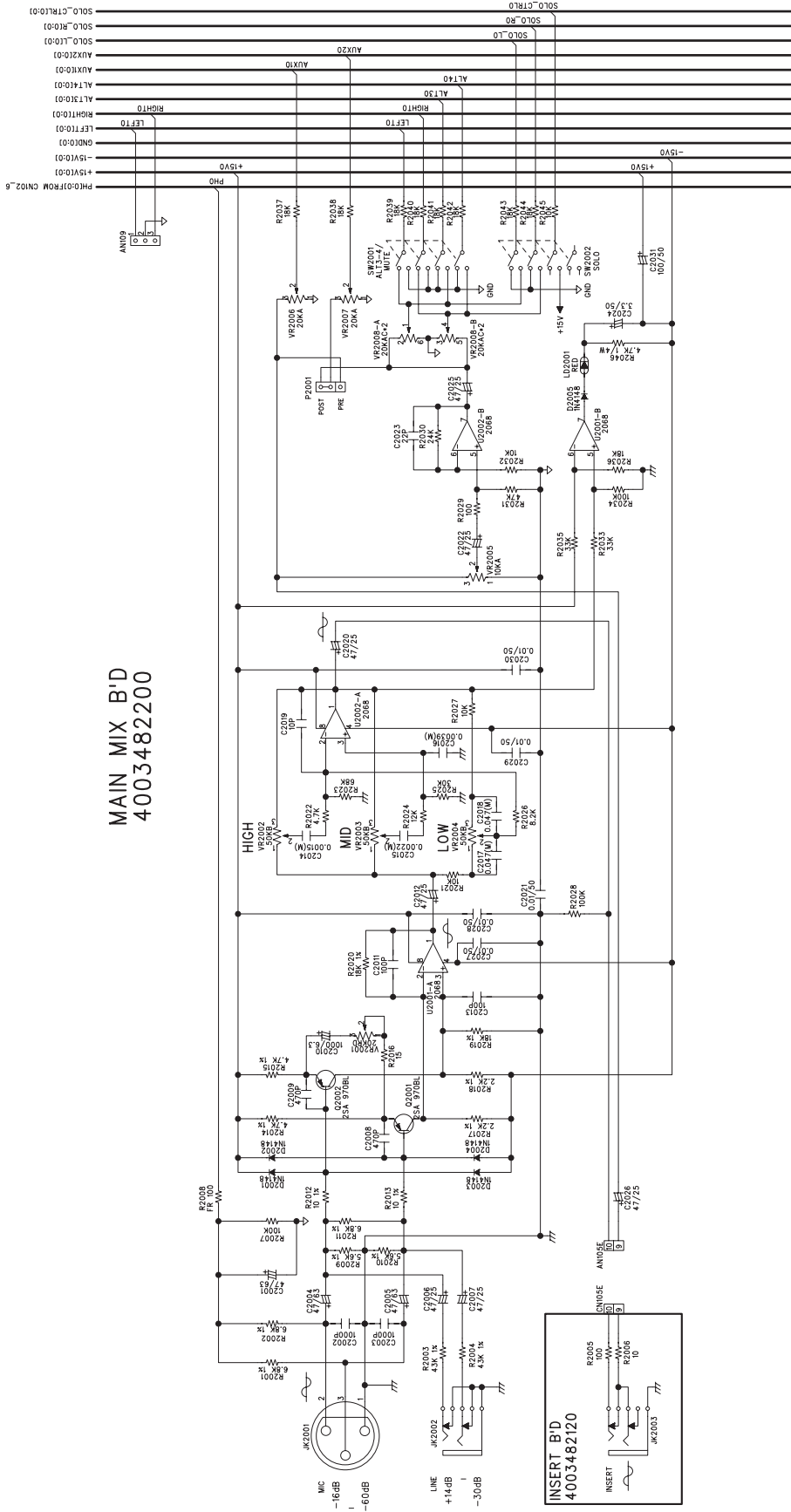
WIRING DIAGRAM



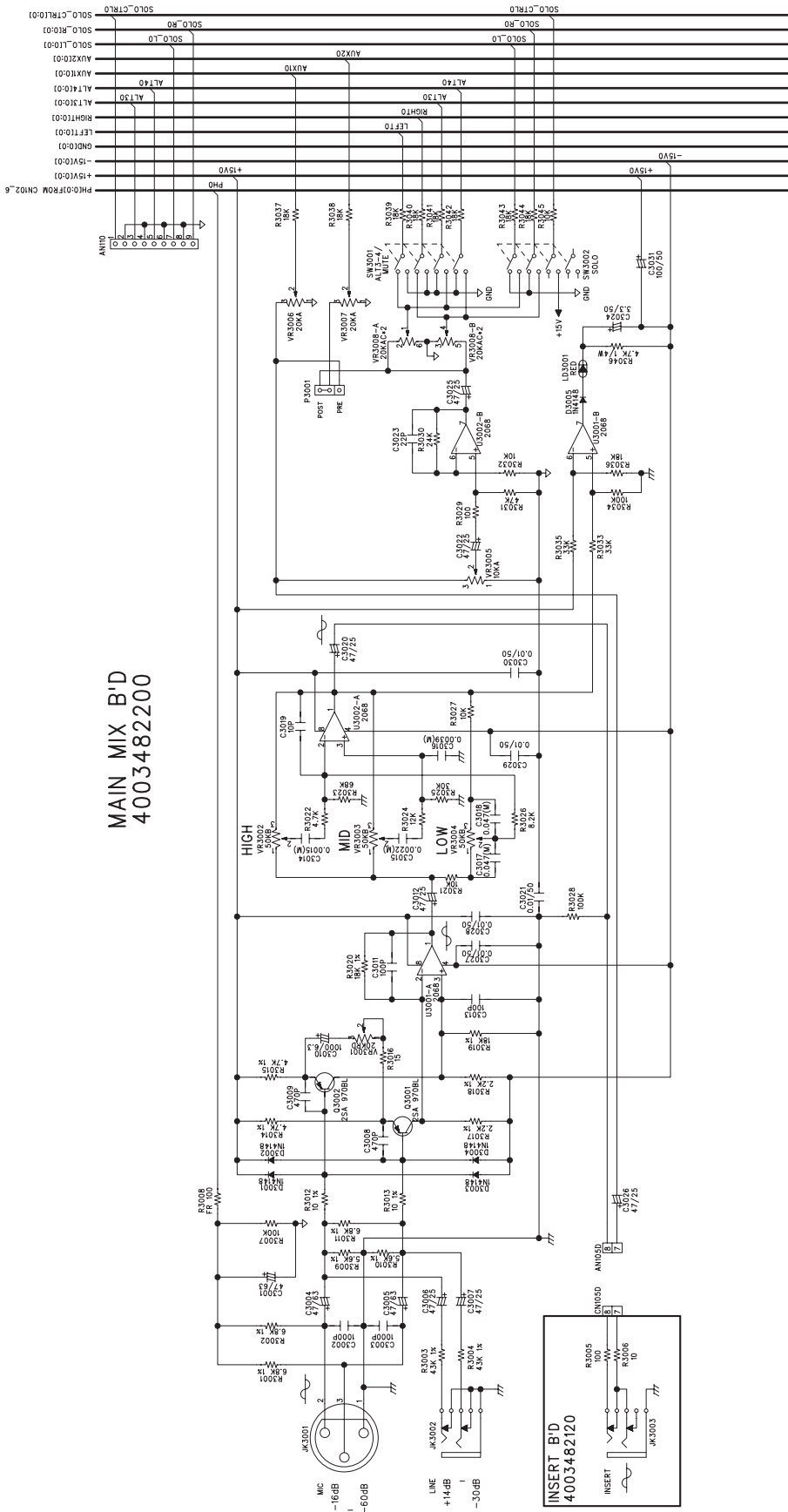
SCHEMATIC DIAGRAM

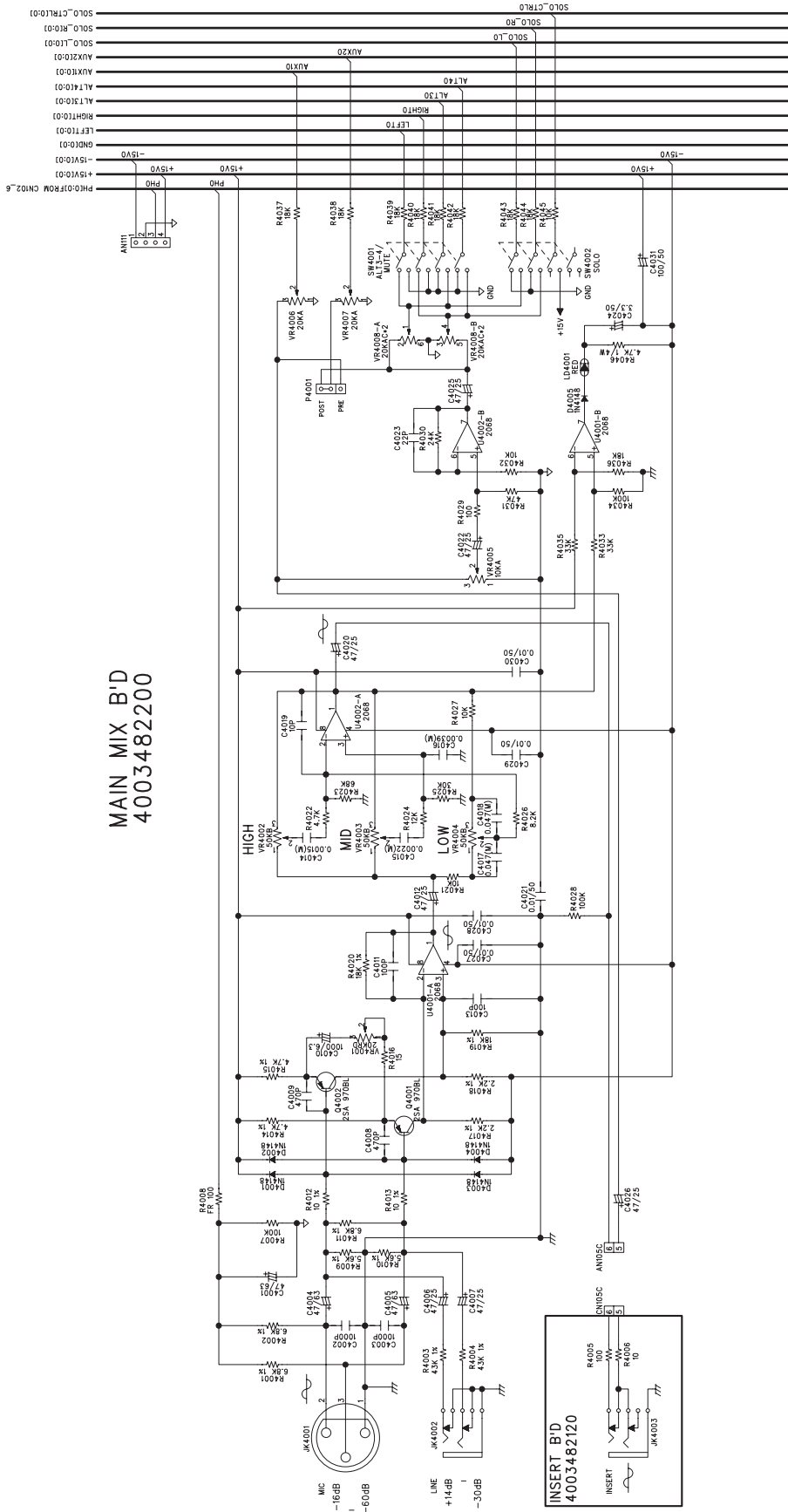


MAIN MIX B'D
4003482200

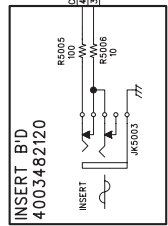
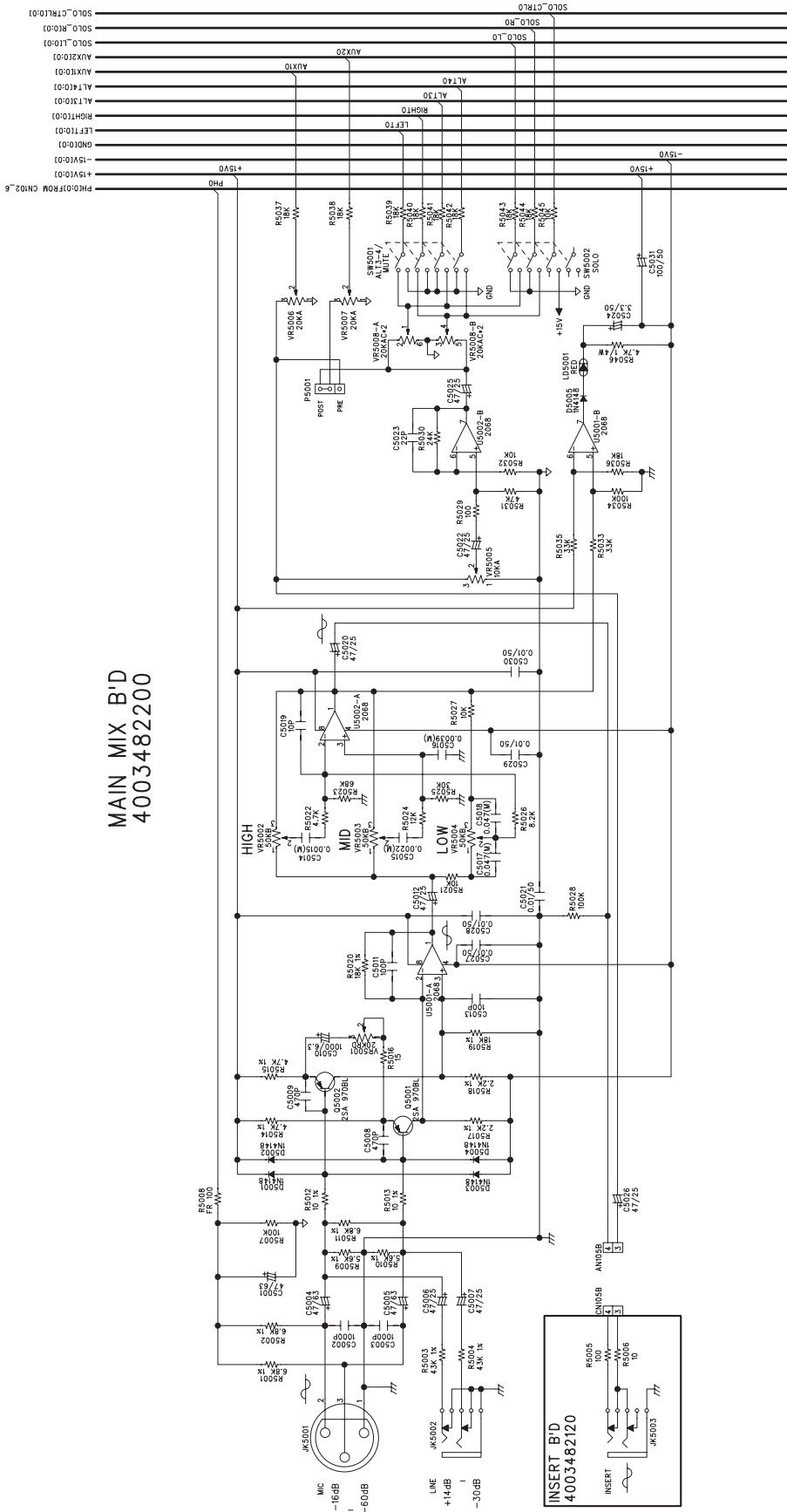


MAIN MIX B'D
400348220

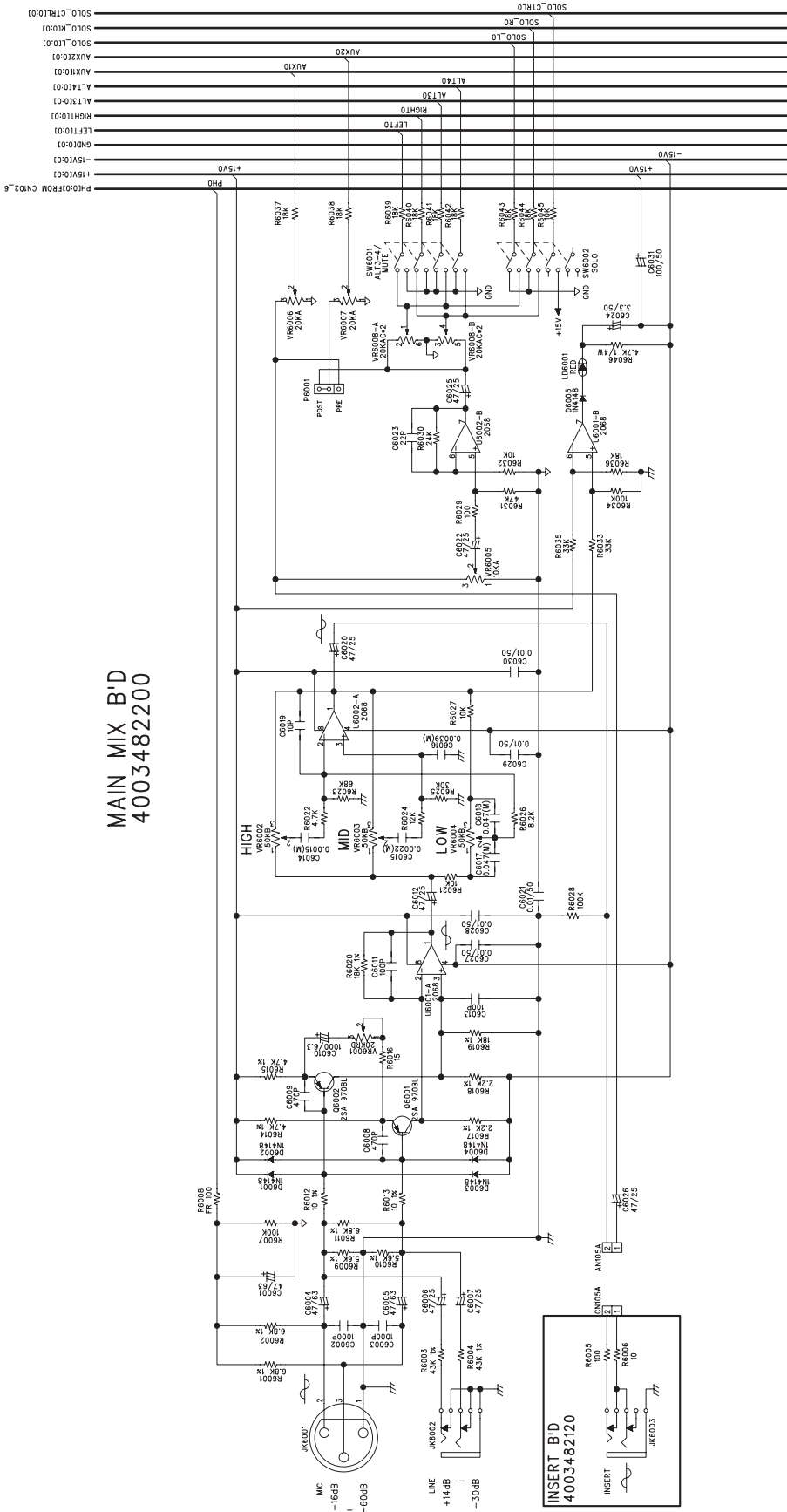




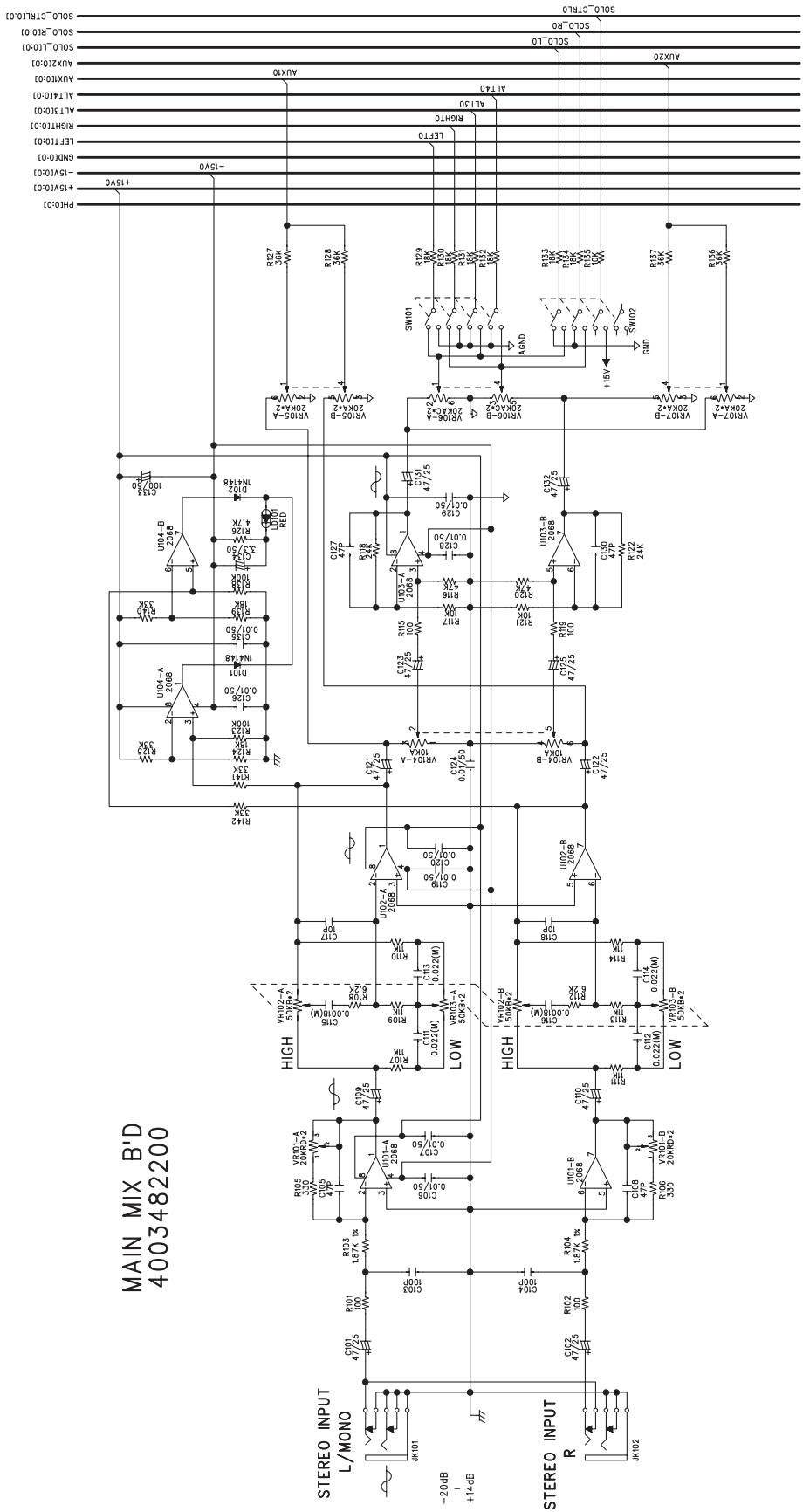
MAIN MIX B'D
4003482200



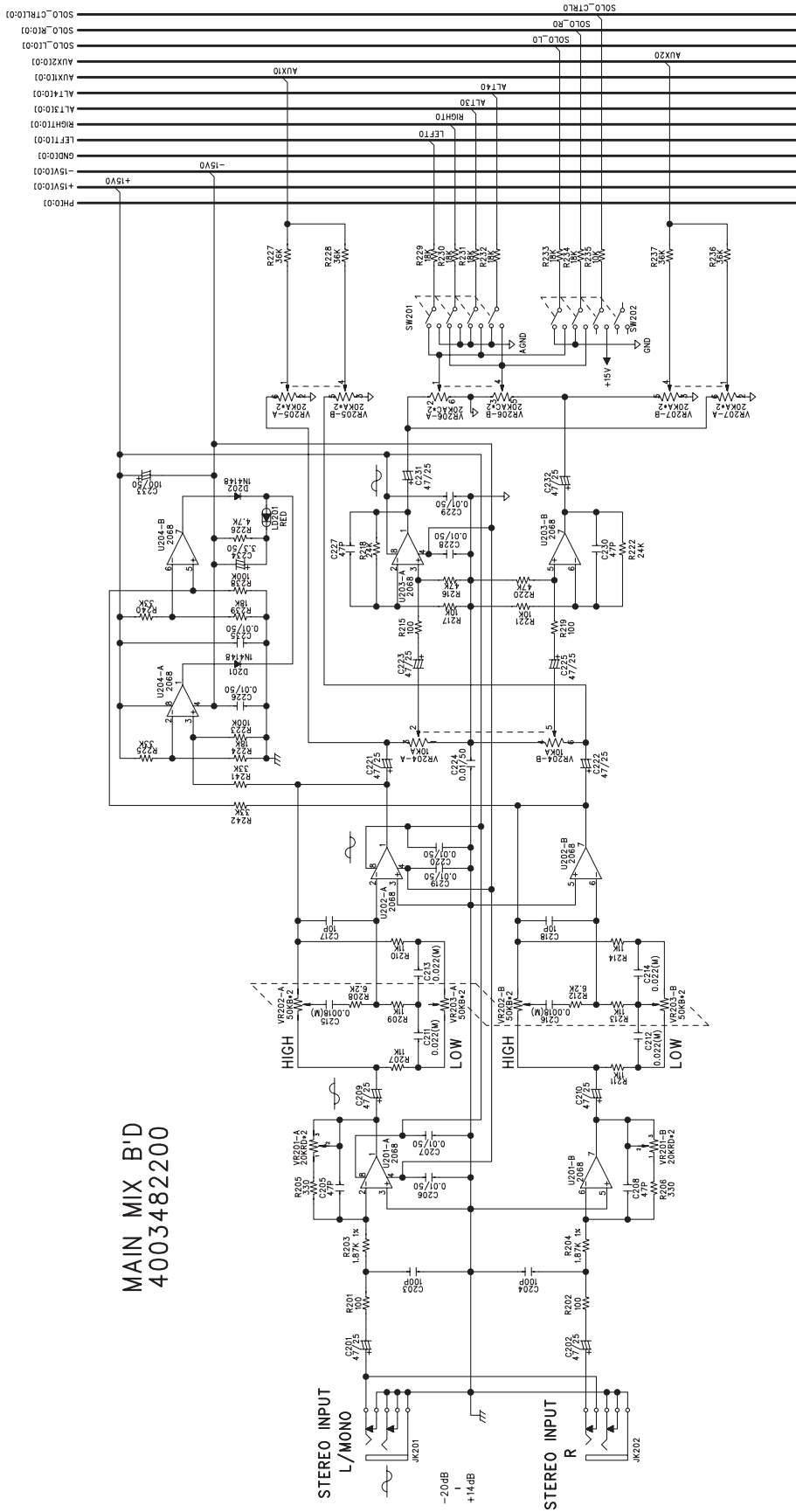
MAIN MIX B'D
4003482200



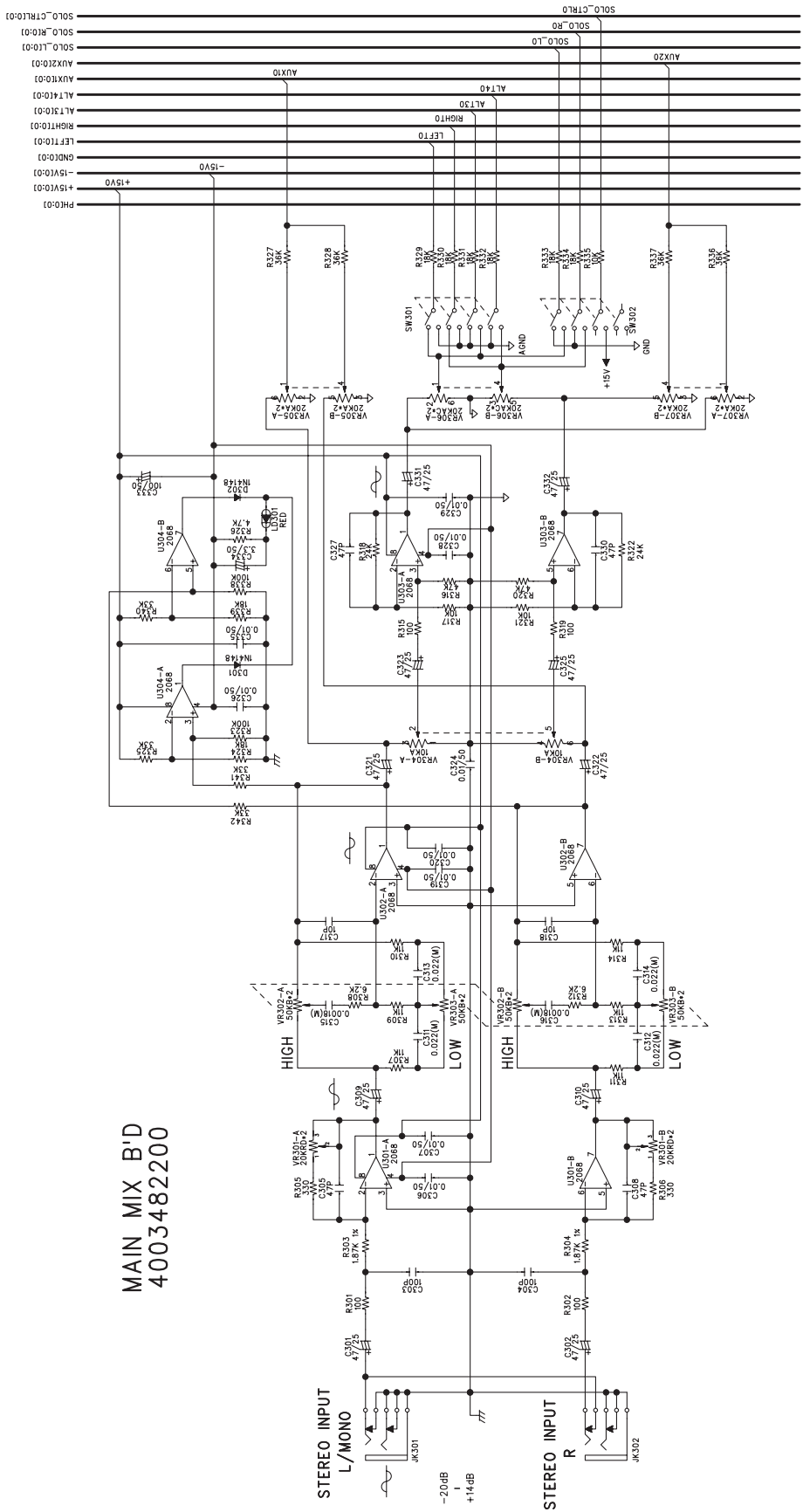
MAIN MIX B'D
4003482200



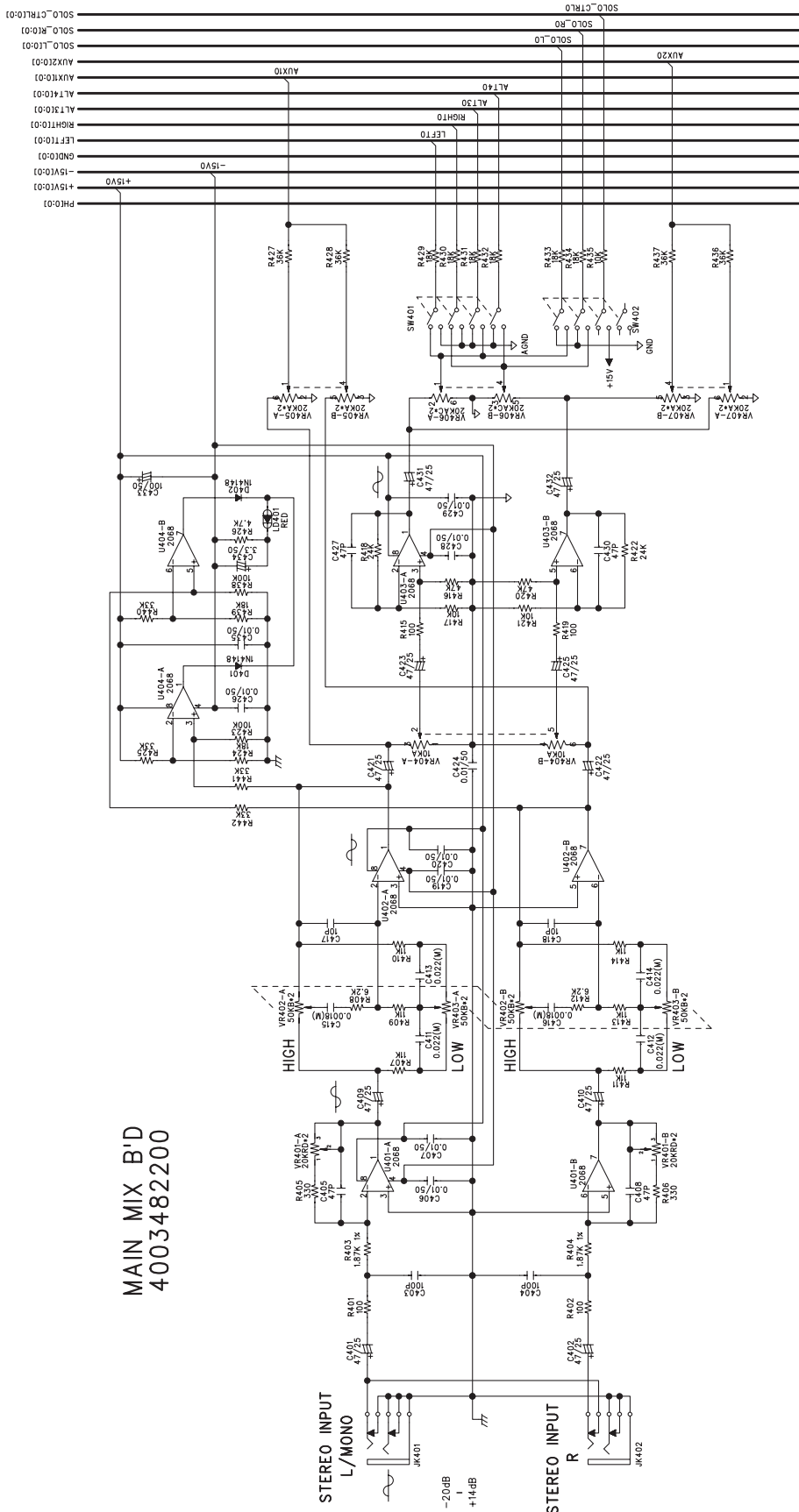
MAIN MIX B'D
4003482200

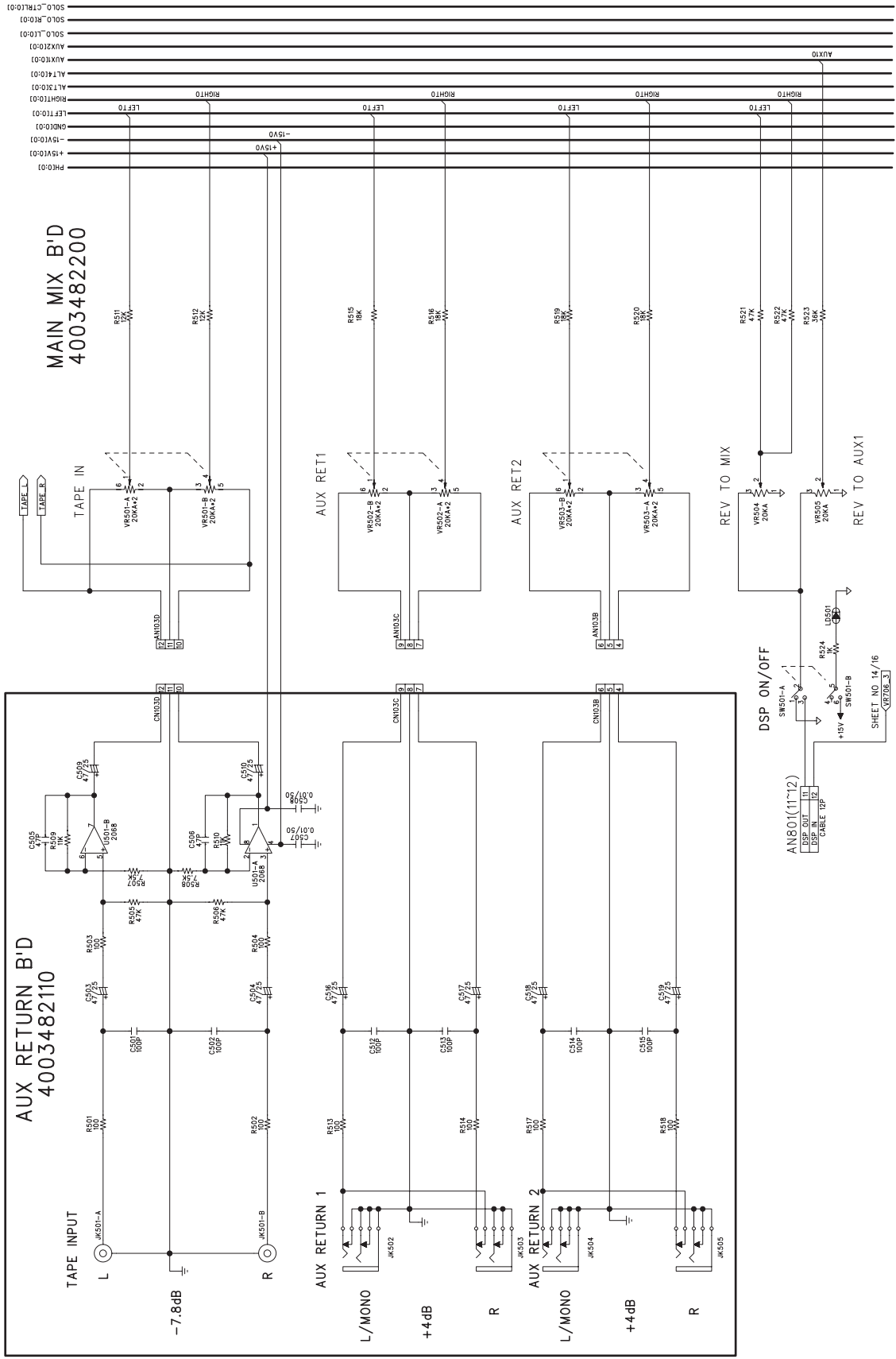


MAIN MIX B'D
4003482200



MAIN MIX B'D
4003482200





MAIN MIX B'D
4003482200

AUX RETURN B'D
4003482110

TAPE INPUT

L

R

-7.5dB

AUX RETURN 1

L/MONO

+4dB

R

AUX RETURN 2

L/MONO

+4dB

R

REV TO MIX

REV TO AUX1

DSP ON/OFF

AN801(1~2)

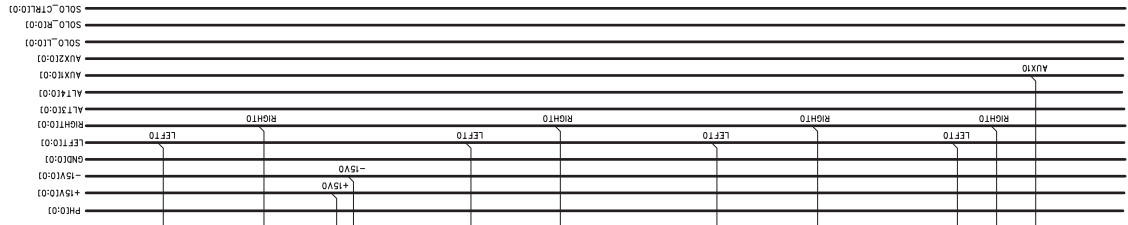
DSP OUT

CABLE 12F

+15V

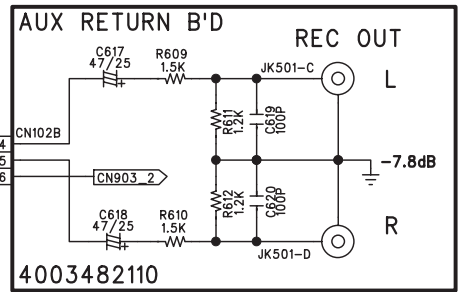
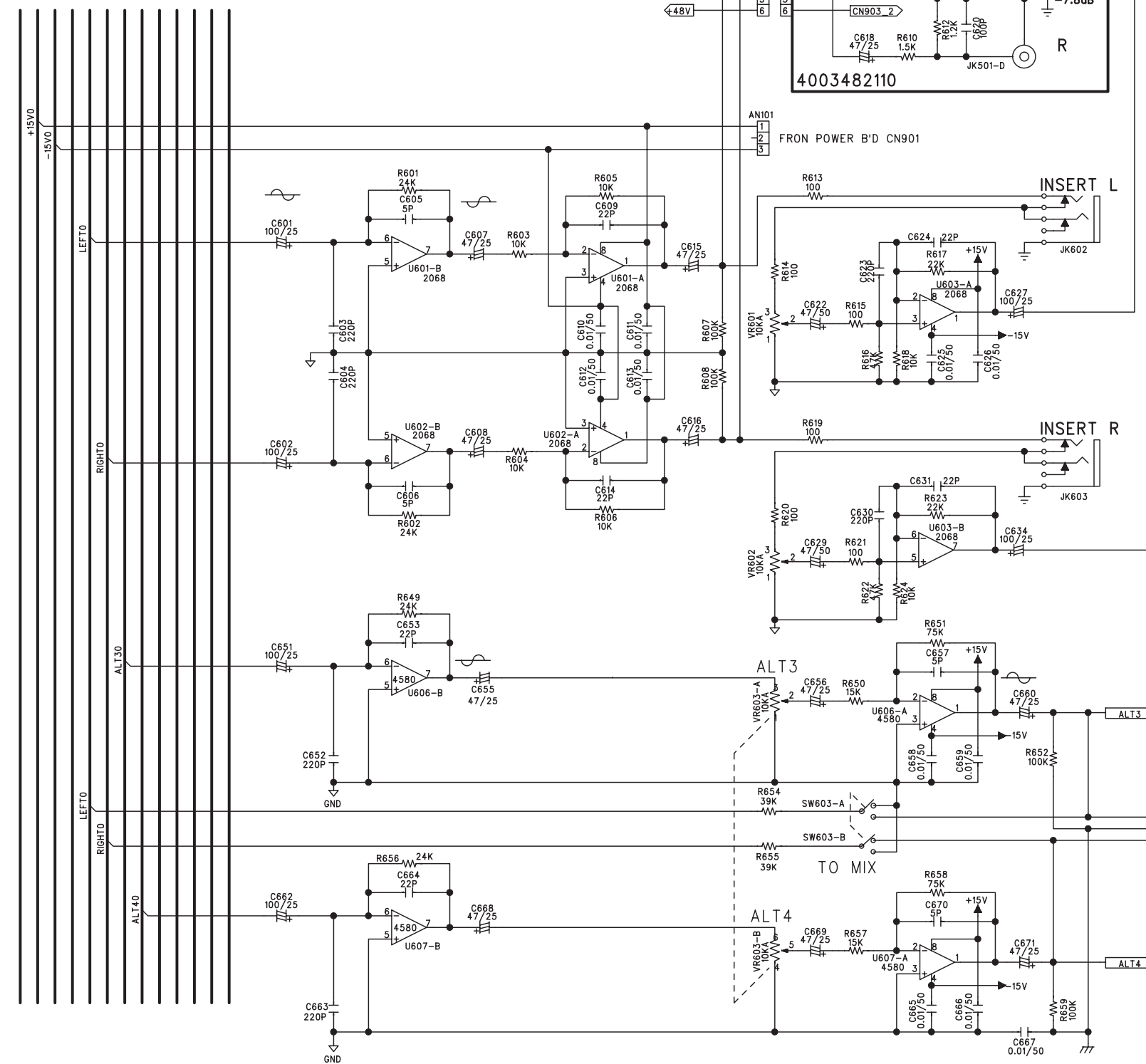
SHEET NO. 14/16

REV 106_3

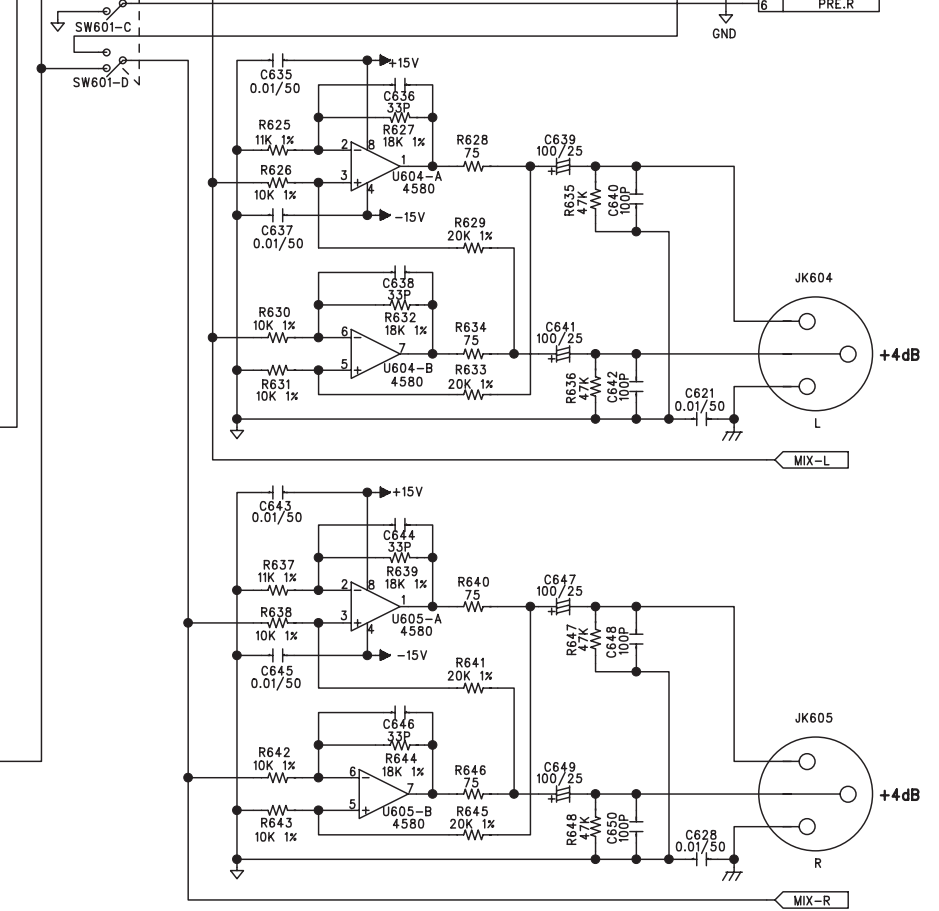


PH0:0:0
+15V(0:0)
-15V(0:0)
GND(0:0)
LEFT(0:0)
RIGHT(0:0)
ALT3(0:0)
ALT4(0:0)
AUX1(0:0)
AUX2(0:0)
SOLO_L(0:0)
SOLO_R(0:0)
SOLO_CTRL(0:0)

MAIN MIX B'D 4003482200

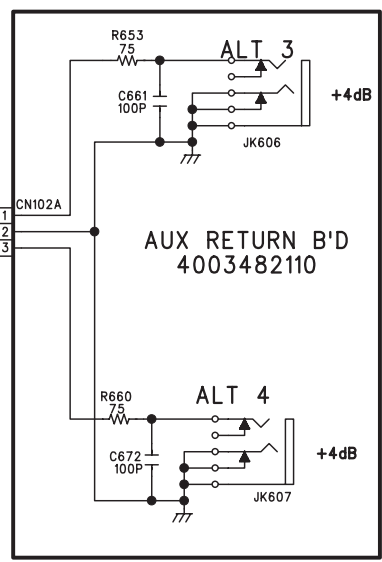


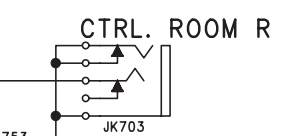
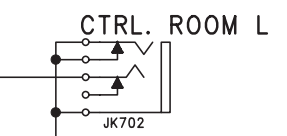
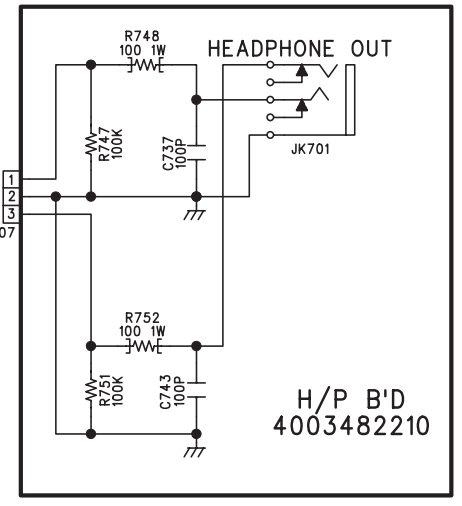
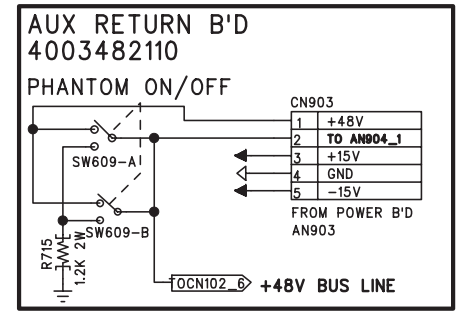
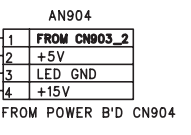
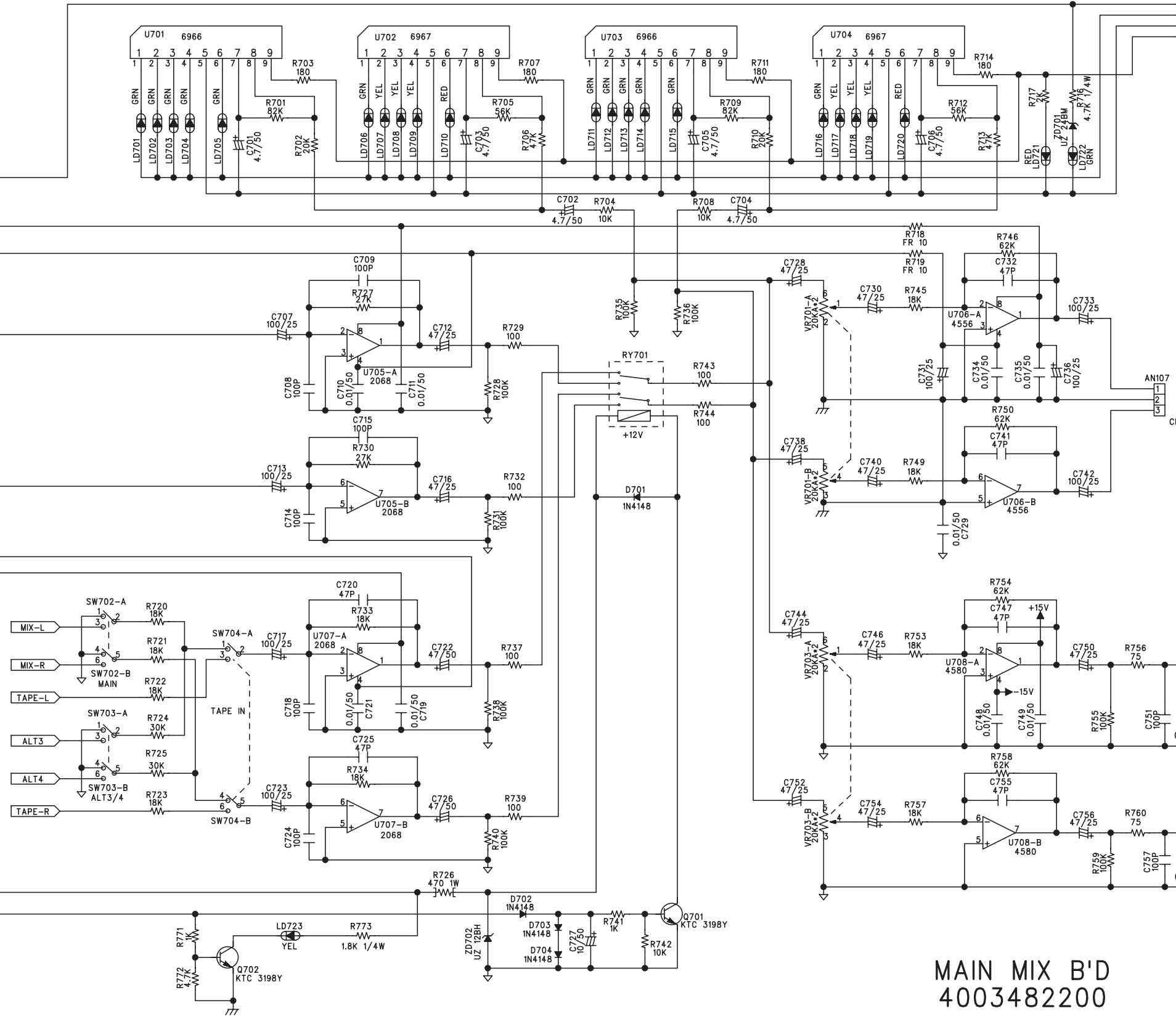
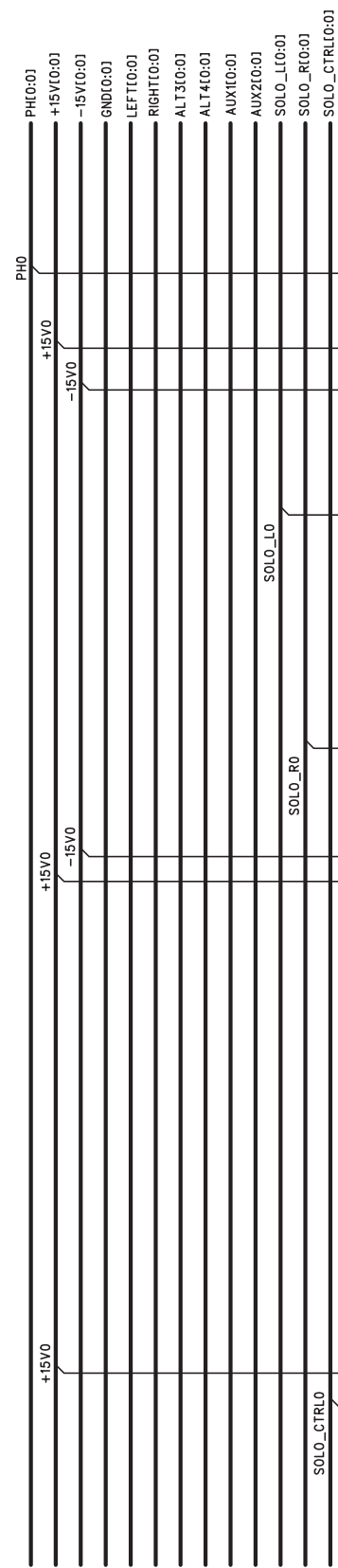
EQ L ON/OFF
EQ R ON/OFF



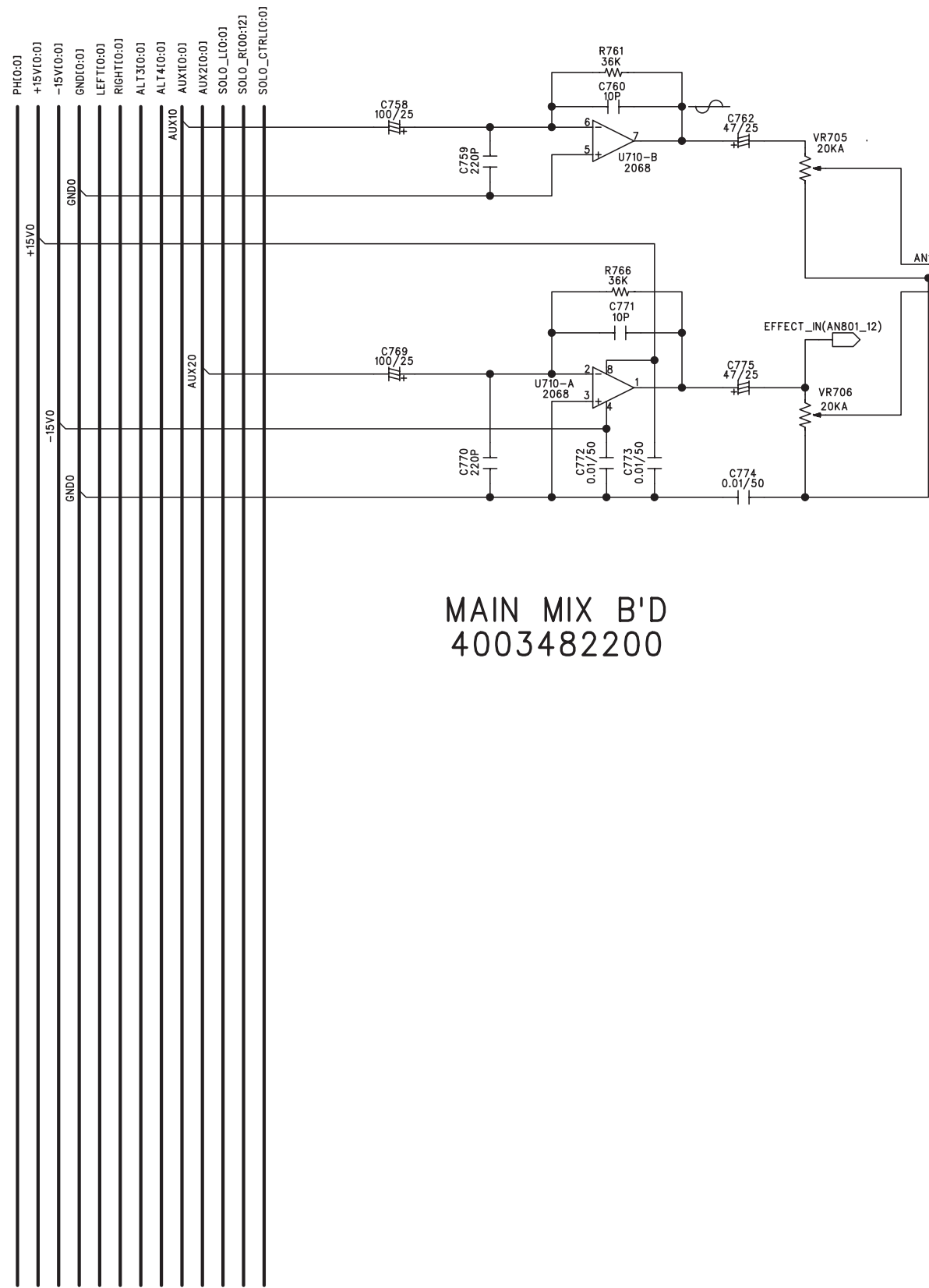
AN802(1*6)
TO DSP B'D

1	POST.L
2	GND
3	POST.R
4	PRE.L
5	GND
6	PRE.R

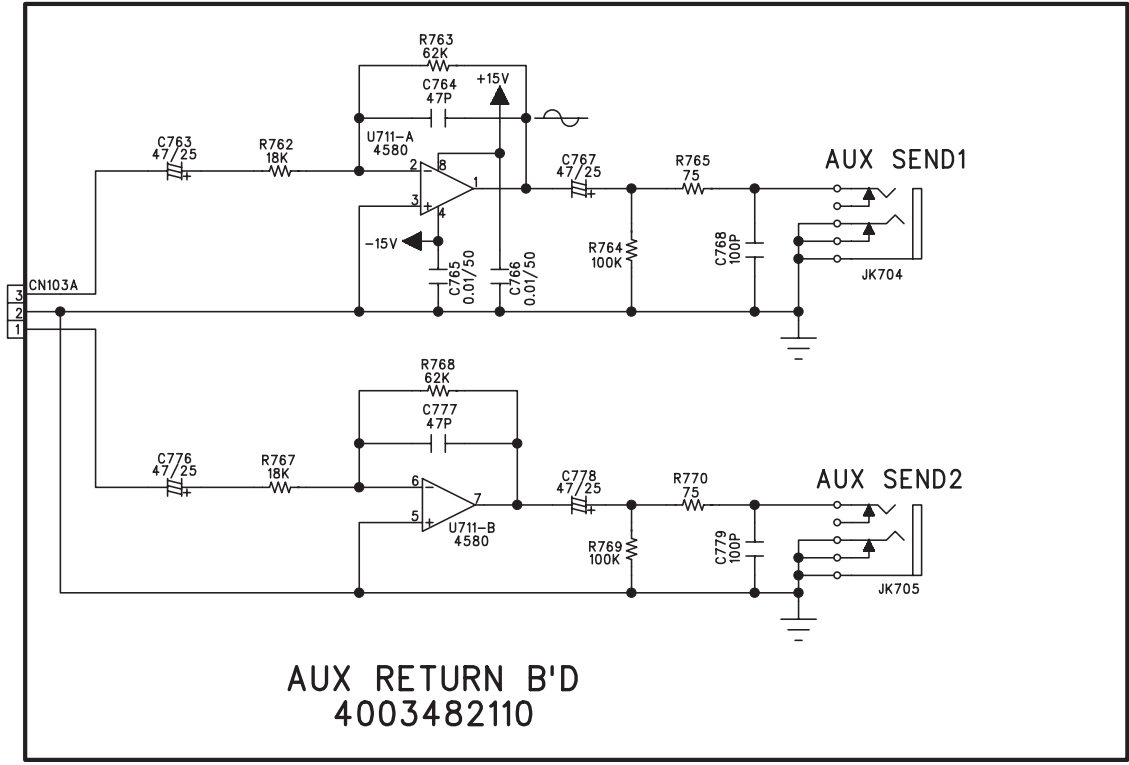




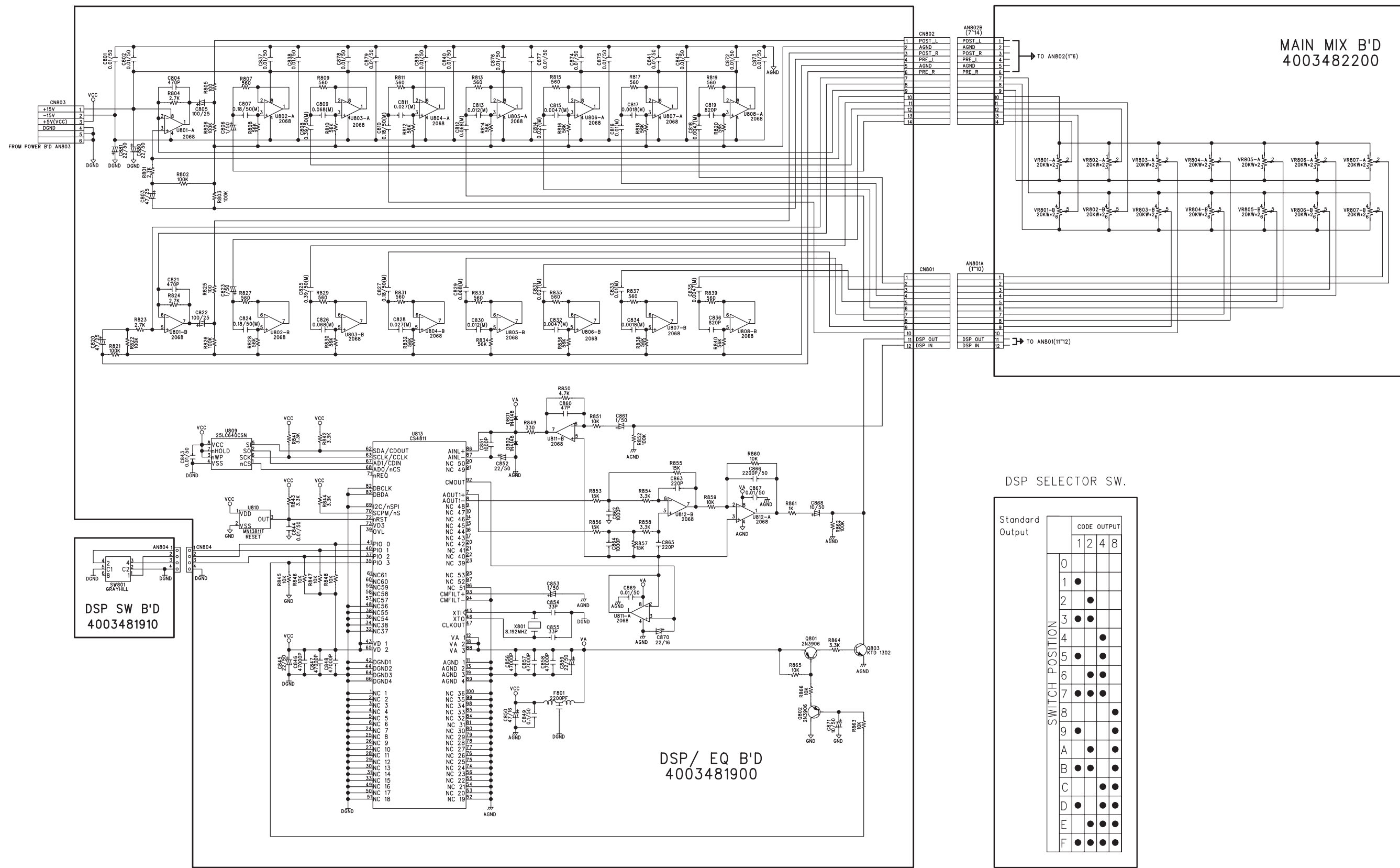
MAIN MIX B'D
4003482200

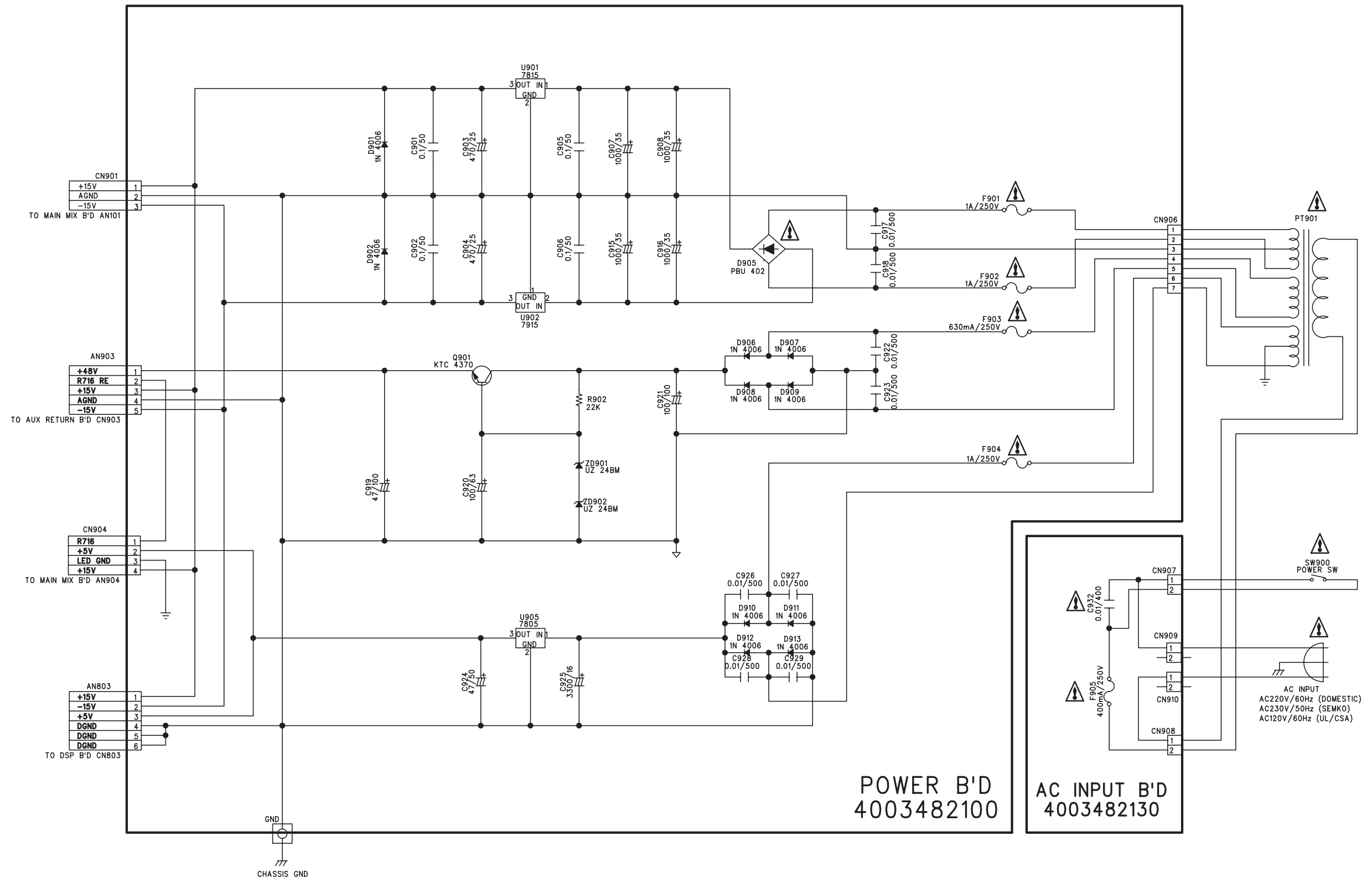


MAIN MIX B'D
4003482200

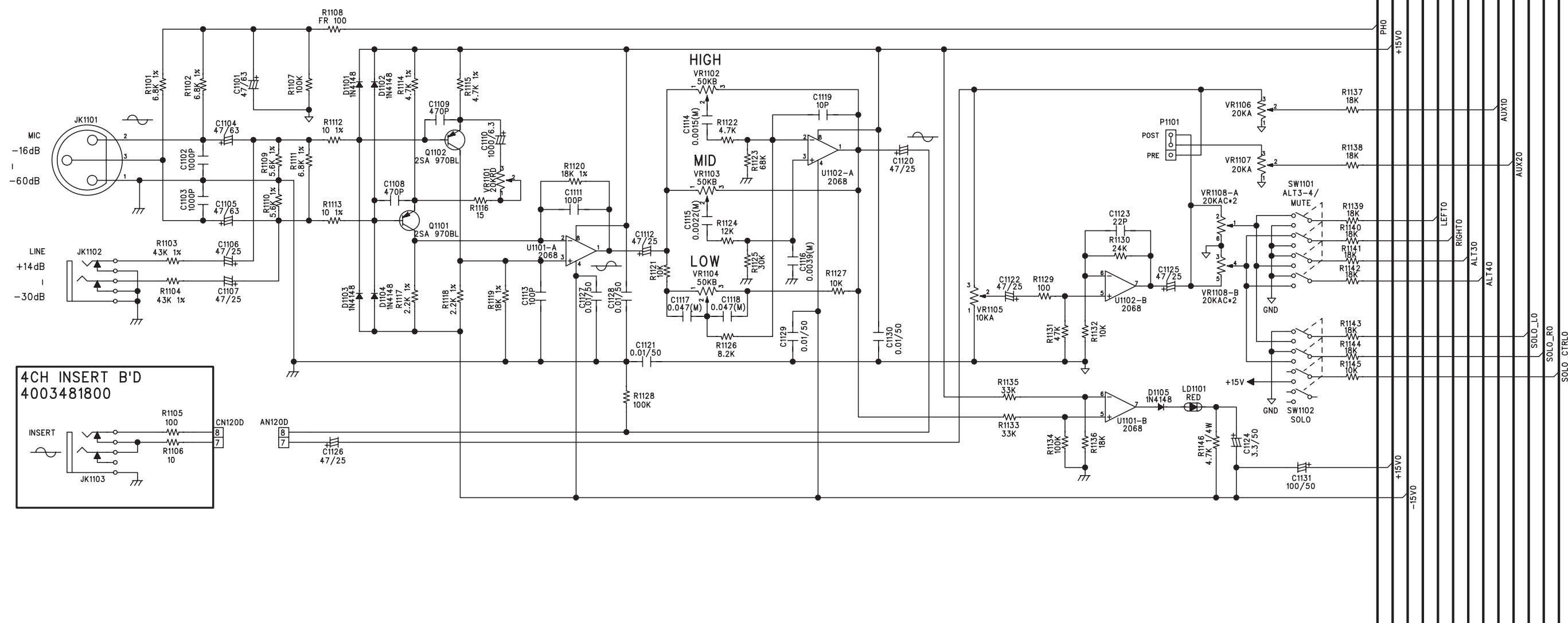


AUX RETURN B'D
4003482110

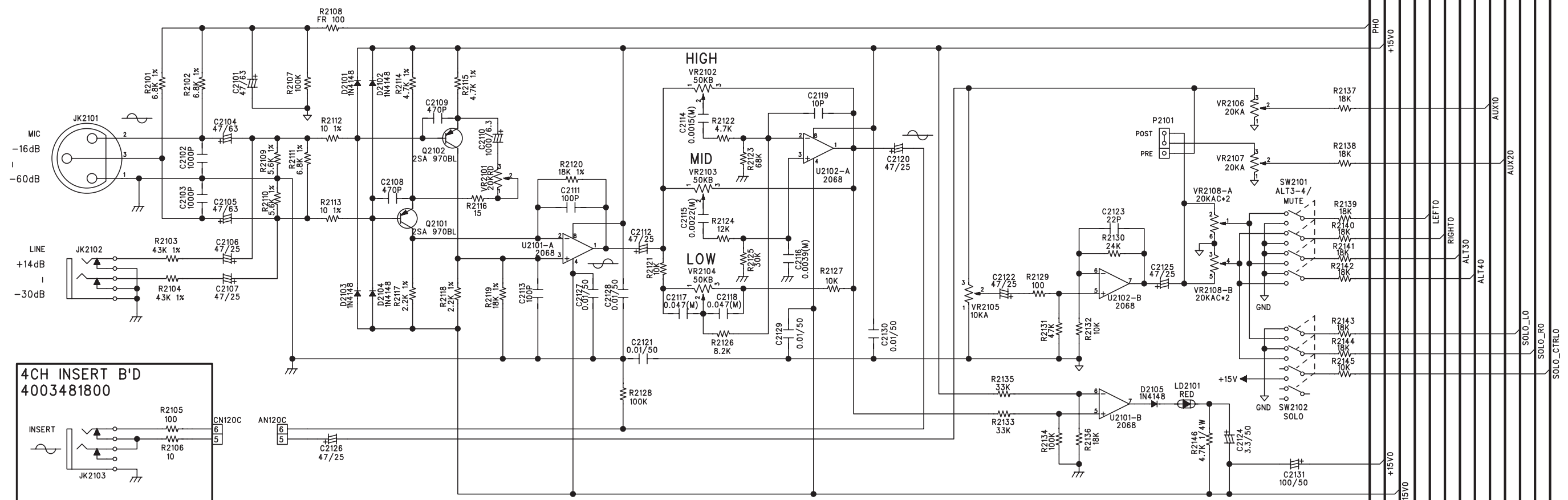




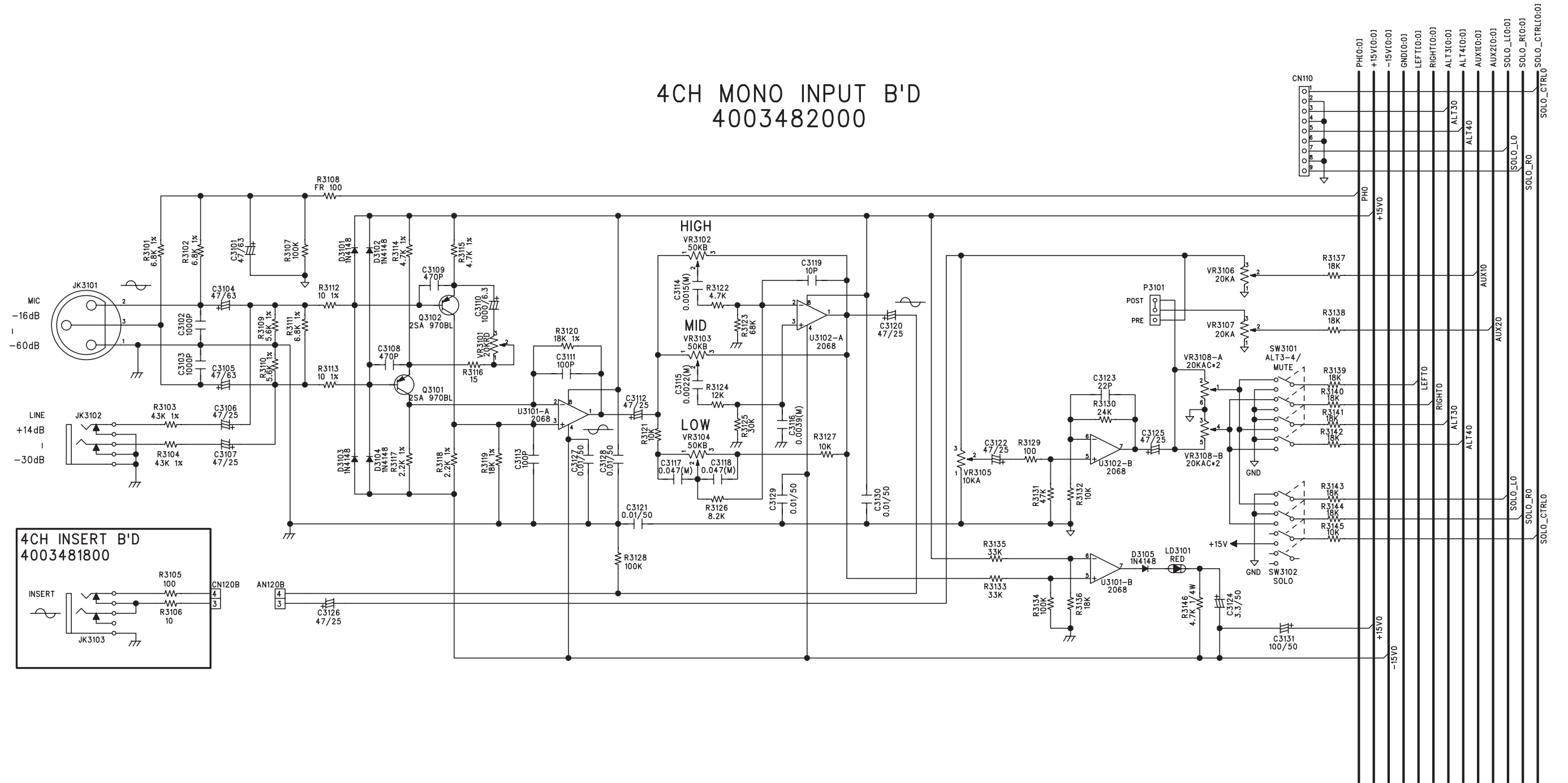
4CH MONO INPUT B'D 4003482000



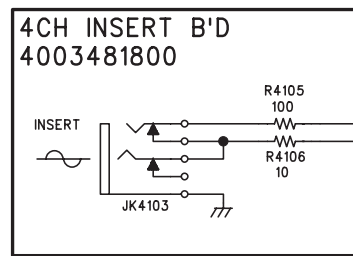
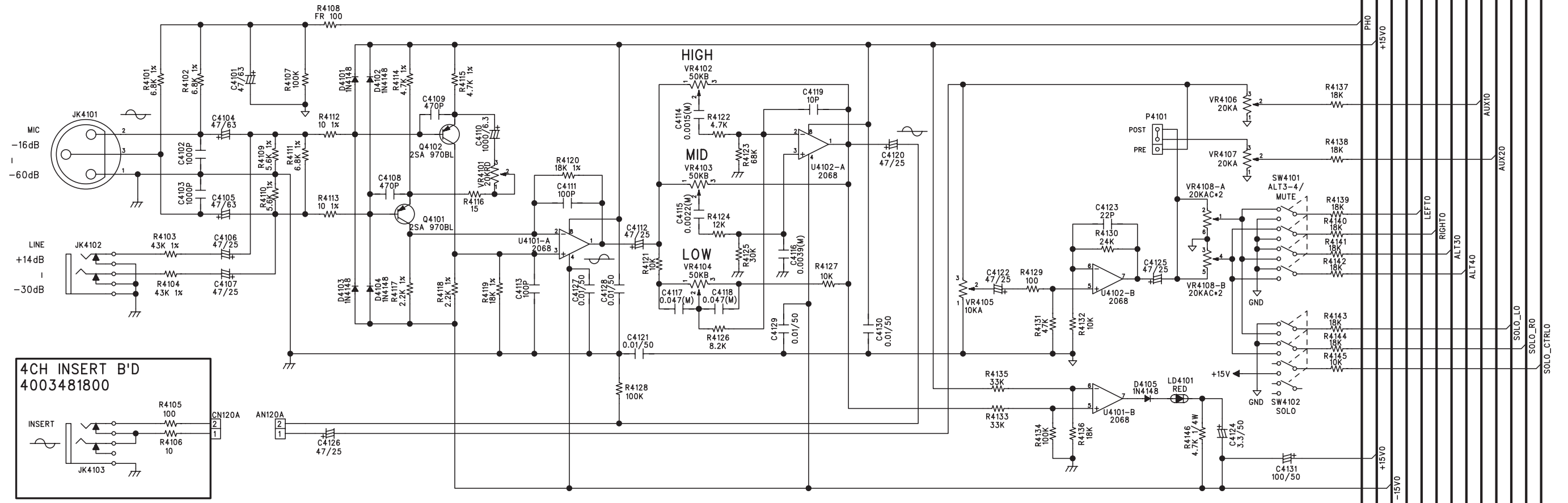
4CH MONO INPUT B'D 4003482000



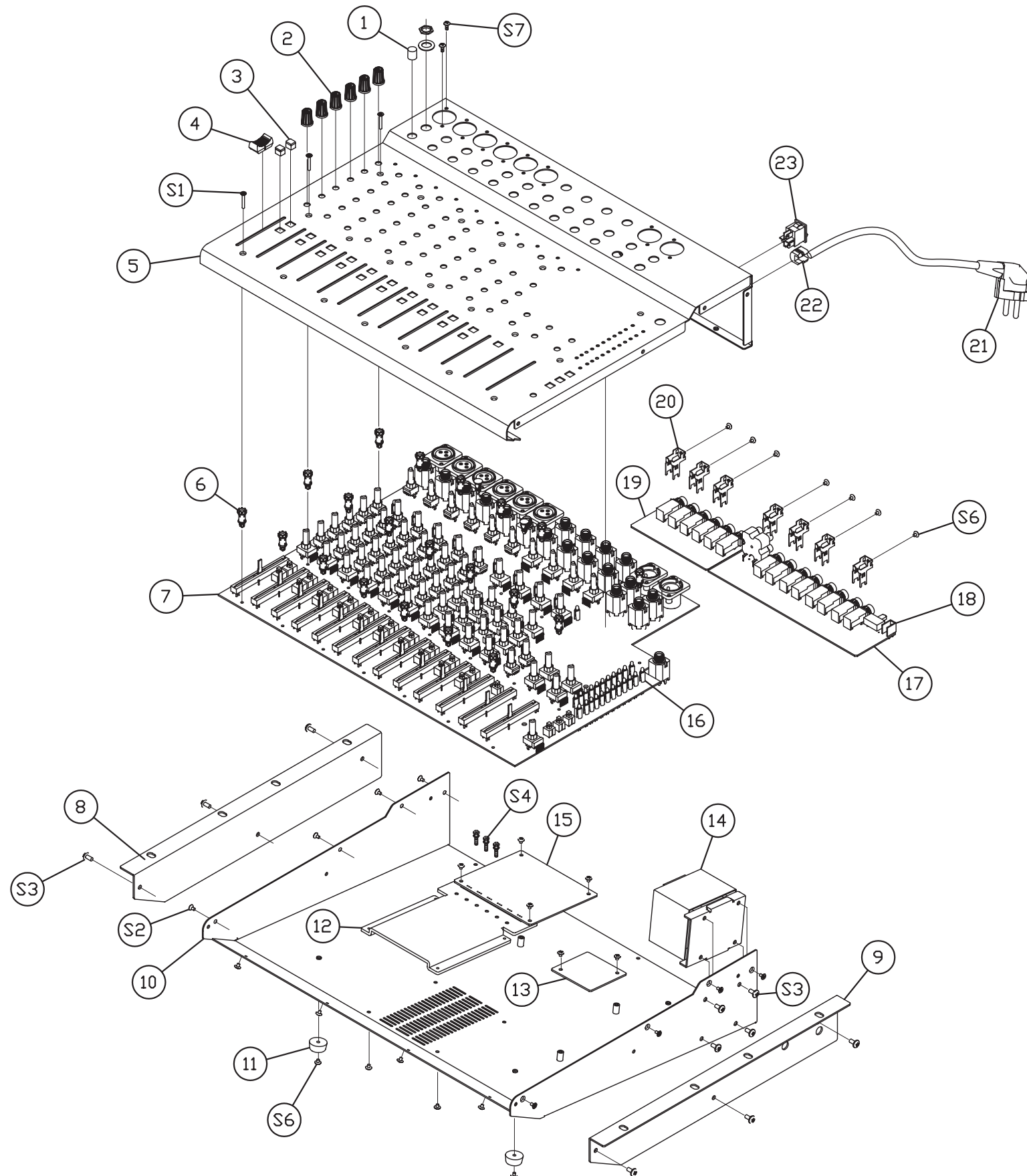
4CH MONO INPUT B'D 4003482000



4CH MONO INPUT B'D 4003482000

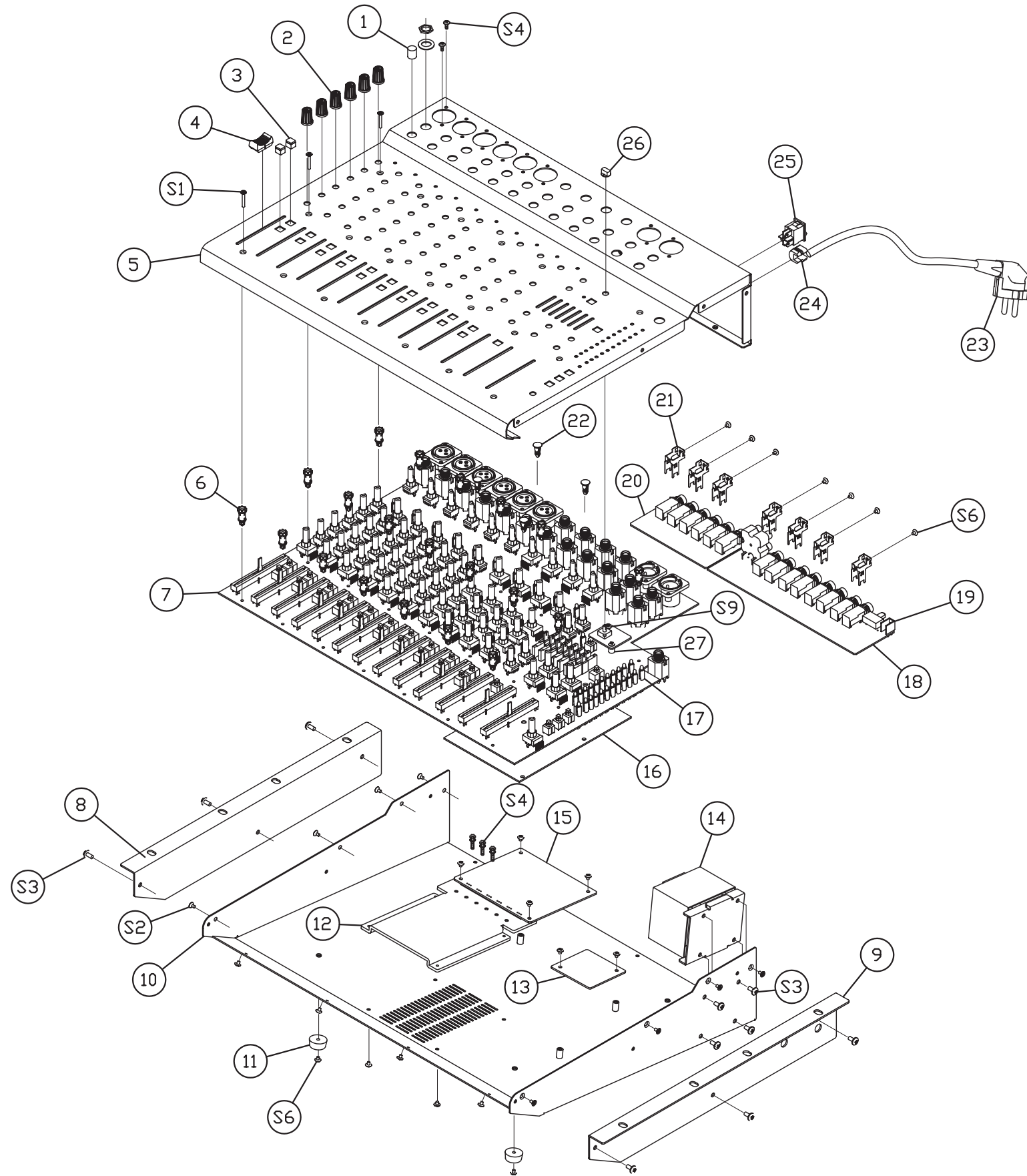


EXPLODED VIEW OF CABINET & CHASSIS/MECHANICAL PARTS LIST



S9	SCREW BM 3x4Y	800913 0041	2	2	
S8	SCREW BM 3x6B	800913 0063	7	7	
S7	SCREW #2BTC3x10B(M2.6)	809599 5010	16	24	
S6	DOT SCREW 2BTC 3x8B	809599 6510	9	11	
S5	DOT SCREW 3BTC 3x8B	809599 6620	12	14	
S4	HEX MSPM 3x12Y	809913 0121	6	6	
S3	SCREW 3BTC 4x8B	810934 0083	10	4	
S2	SCREW 2FTC 3x8B	812923 0083	8	8	
S1	SCREW 2FTC 3x18B	812923 0183	20	38	
NO	PART NAME	PART NO	MX-1424 Q'TY	MX-1824 Q'TY	REMARK

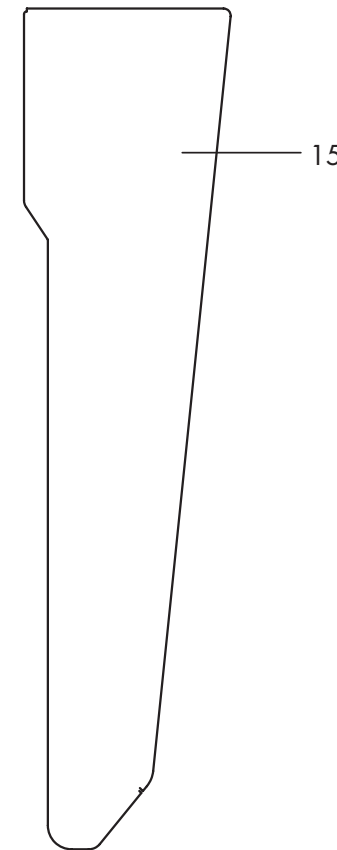
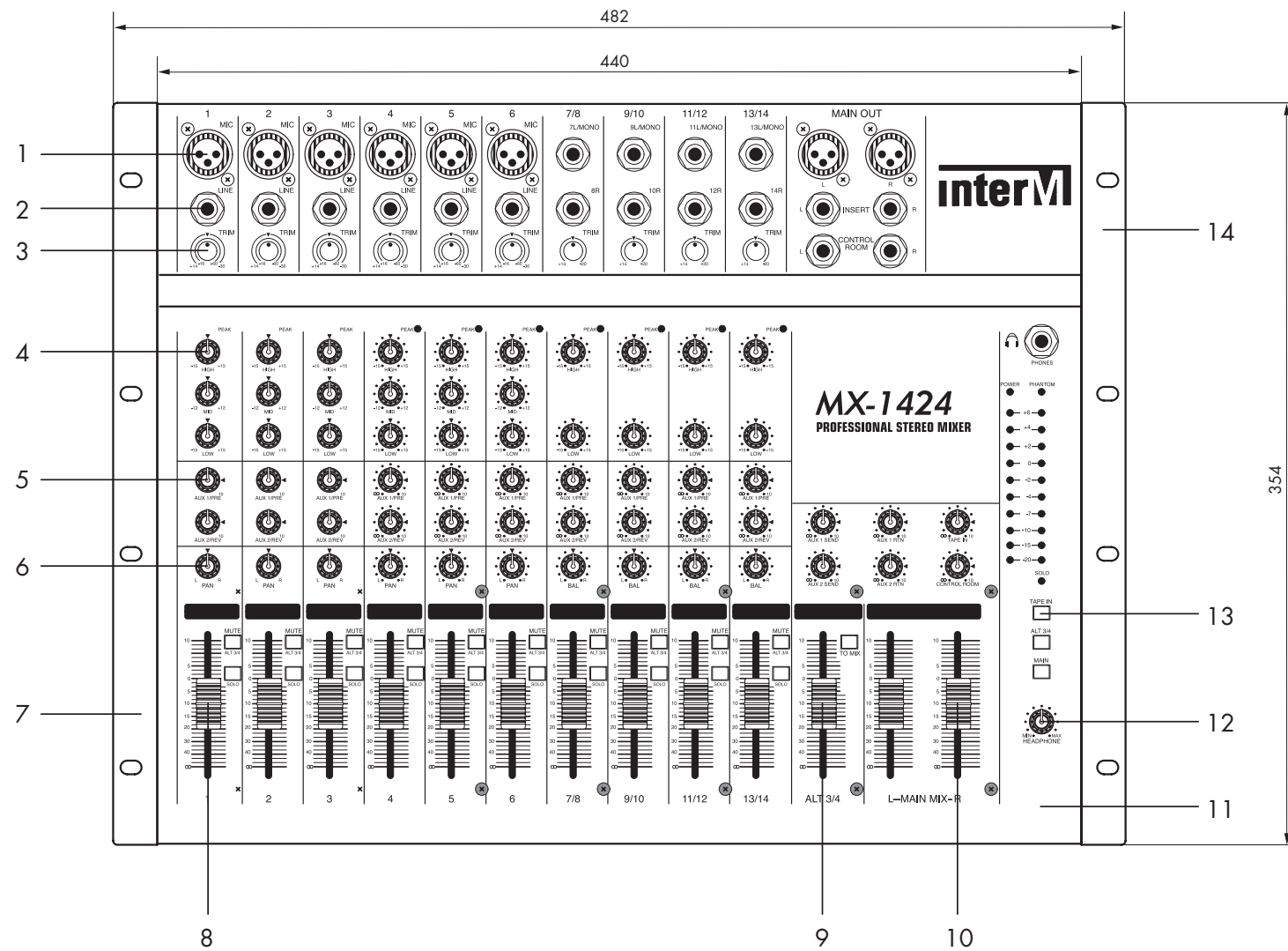
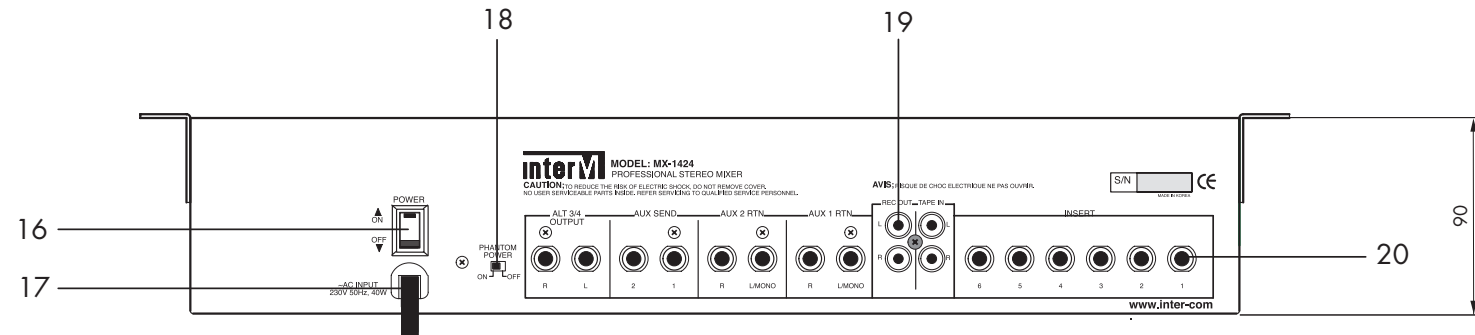
23	POWER SWITCH	464809 9310	1	1		
22	CORD STOPPER	651899 8110	1	1	4N-6, 2	
		651899 9810			6N3-4,3	
21	AC CORD	430800 0430	1	1		
20	JACK BRACKET	650595 4910	7	11		
19	INSERT PCB	400348 2120	1	1		
18	BKT PCB PS-A152	650596 8010	1	1		
17	JACK PCB	400348 2120	1	1		
16	LED LIMITER	854599 3360	34	38		
15	PCB POWER	400348 2100	1	1		
14	TRANS POWER	282805 9420	1	1		
13	PCB AC INPUT	400348 2130	1	1		
12	HEAT SINK	750309 5620	1	1		
11	RUBBER FOOT	633599 9610	4	4		
		612248 2420	X	1		
10	MAIN CHASSIS	612248 2410	1	X		
		612248 2410	1	X		
9	RACK BKT-R	650396 8920	1	X		
8	RACK BKT-L	650396 8910	1	X		
7	INSERT PCB	612248 9020	1	1		
6	SPACER PCB	854598 5310	20	26		
5	CONTROL PANEL	612228 9740			3	
		612228 9730	X	1	2	
		612228 9720				3
		612228 9710	1	X	2	
4	SLIDE KNOB	852399 2710	13	17		
3	PUSH KNOB	854398 2710	24	32		
2	CONTROL KNOB	854398 0320	63	87		
1	KNOB CONTROL	854399 1910	10	14		
NO	PART NAME	PART NO	MX-1424 Q'TY	MX-1824 Q'TY	REMARK	



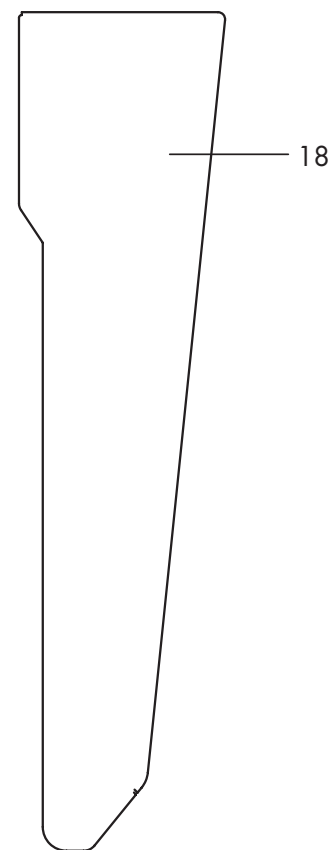
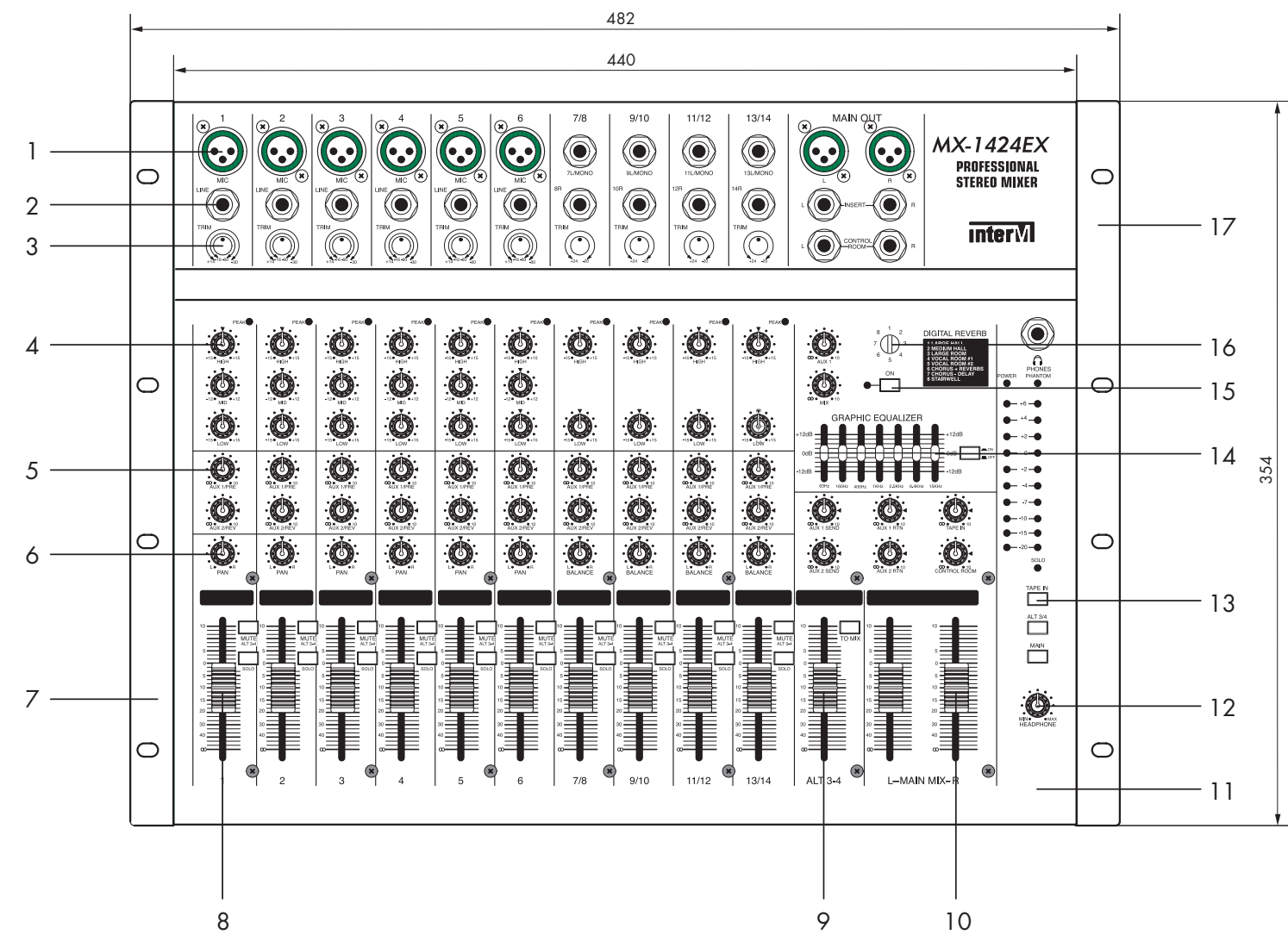
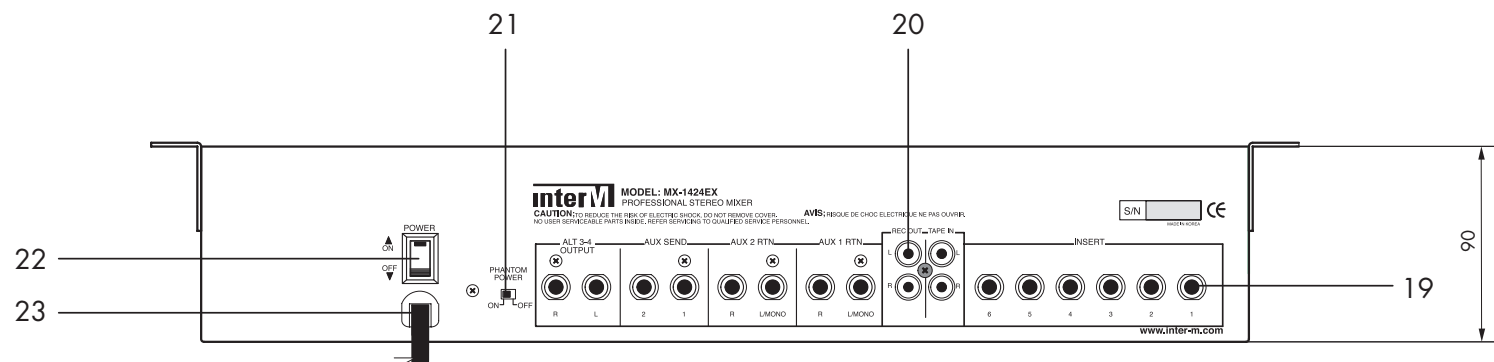
S9	SCREW BM 3x4Y	800913 0041	2	2	
S8	SCREW BM 3x6B	800913 0063	7	7	
S7	SCREW #2BTC3x10B(M2.6)	809599 5010	16	24	
S6	DOT SCREW 2BTC 3x8B	809599 6510	9	11	
S5	DOT SCREW 3BTC 3x8B	809599 6620	12	14	
S4	HEX MSPM 3x12Y	809913 0121	6	6	
S3	SCREW 3BTC 4x8B	810934 0083	10	4	
S2	SCREW 2FTC 3x8B	812923 0083	8	8	
S1	SCREW 2FTC 3x18B	812923 0183	20	38	
NO	PART NAME	PART NO	<small>MX-1424EX</small> <small>MX-1824EX</small> Q'TY		REMARK

27	STUD (L=7)	653599 4610	2	2	
26	KNOB 947705-017	854598 5910	1	1	
25	POWER SWITCH	464809 9310	1	1	
24	CORD STOPPER	651899 8110 651899 9810	1	1	4N-6: 2 6N3-4:3
23	AC CORD	430800 0430	1	1	
22	BUTTON SUPPORT	653899 9908	4	4	
21	JACK BRACKET	650595 4910	7	11	
20	INSERT PCB	400348 2120	1	1	
19	BKT PCB PS-A152	650596 8010	1	1	
18	JACK PCB	400348 2120	1	1	
17	LED LIMITER	854599 3360	34	38	
16	PCB DSP/EQ	400348 1900	1	1	
15	PCB POWER	400348 2100	1	1	
14	TRANS POWER	282805 9420	1	1	
13	PCB AC INPUT	400348 2130	1	1	
12	HEAT SINK	750309 5620	1	1	
11	RUBBER FOOT	633599 9610	4	4	
10	MAIN CHASSIS	612248 2420 612248 2410	X 1	1 X	
9	RACK BKT-R	650396 8920	1	X	
8	RACK BKT-L	650396 8910	1	X	
7	INSERT PCB	612248 9020	1	1	
6	SPACER PCB	854598 5310	20	26	
5	CONTROL PANEL	612228 9780 612228 9770 612228 9760 612228 9750	X 1	1 X	3 2 3 2
4	SLIDE KNOB	852399 2710	13	17	
3	PUSH KNOB	854398 2710	26	34	
2	CONTROL KNOB	854398 0320	65	89	
1	KNOB CONTROL	854399 1910	10	14	
NO	PART NAME	PART NO	<small>MX-1424EX</small> <small>MX-1824EX</small> Q'TY		REMARK

ASS'Y DRAWING



No.	Description	Part No	1424(Q'ty)	1824(Q'ty)	Remark
1	SCREW #2 FTC 3X8BK	8129230183	8	12	
2	PHONE JACK 5P METAL	4438192910	19	23	
3	KNOB CONTROL	048543991912	10	14	
4	CONTROL KNOB(GREEN/BLACK)	048543980336	26	38	
5	CONTROL KNOB(BLUE/BLACK)	048543980325	25	33	
6	CONTROL KNOB(RED/BLACK)	048543980337	10	14	
7	RACK BKT-L	046503968917	1	1	
8	SLIDE KNOB(GRAY)	048523992713	10	14	
9	SLIDE KNOB(BLUE)	048523992715	1	1	
10	SLIDE KNOB(BLACK)	048523992710	2	2	
11	CONTROL PANEL	046122289711	1	0	DOM
		046122289712	1	0	R
		046122289721	1	0	E
		046122289722	1	0	C
		046122289723	1	0	D
		046122289751	0	1	DOM
		046122289752	0	1	R
		046122289761	0	1	E
		046122289762	0	1	C
		046122289763	0	1	D
12	CONTROL KNOB(GRAY/BLACK)	048543980323	4	4	
13	PUSH KNOB(DARK GRAY)	048545985213	24	32	
14	RACK BKT-R	046503968927	1	1	
15	MAIN CHASSIS	046122482417	1	0	
		046122482427	0	1	
16	POWER SWITCH	4648099310	1	1	
17	AC CODE	6518998110	1	1	
18	PHANTOM POWER SLIDE	4618001110	1	1	
19	JACK RCA 4P	4438095210	1	1	
20	JACK PHONE 4P	4438097310	14	18	



No.	Description	Part No	1424EX(Q'ty)	1824EX(Q'ty)	Remark
1	SCREW #2 FTC 3X8BK	8129230183	8	12	
2	PHONE JACK 5P METAL	4438192910	19	23	
3	KNOB CONTROL	048543991912	10	14	
4	CONTROL KNOB(GREEN/BLACK)	048543980336	26	38	
5	CONTROL KNOB(BLUE/BLACK)	048543980325	25	33	
6	CONTROL KNOB(RED/BLACK)	048543980337	10	14	
7	RACK BKT-L	046503968917	1	1	
8	SLIDE KNOB(GRAY)	048523992713	10	14	
9	SLIDE KNOB(BLUE)	048523992715	1	1	
10	SLIDE KNOB(BLACK)	048523992710	2	2	
11	CONTROL PANEL	046122289731	1	0	DOM
		046122289732	1	0	R
		046122289741	1	0	E
		046122289742	1	0	C
		046122289743	1	0	D
		046122289771	0	1	DOM
		046122289772	0	1	R
		046122289781	0	1	E
046122289782	0	1	C		
046122289783	0	1	D		
12	CONTROL KNOB(GRAY/BLACK)	048543980323	4	4	
13	PUSH KNOB(DARK GRAY)	048545985213	24	32	
14	SLIDE KNOB	3238080010	7	7	
15	PUSH KNOB(RED)	048545985217	2	2	
16	KNOB 947705-017(GRAYHILL)-GRAY	8545985910	1	1	
17	RACK BKT-R	046503968927	1	1	
18	MAIN CHASSIS	046122482417	1	0	
		046122482427	0	1	
19	JACK PHONE 4P	4438097310	14	18	
20	JACK RCA 4P	4438095210	1	1	
21	PHANTOM POWER SLIDE	4618001110	1	1	
22	POWER SWITCH	4648099310	1	1	
23	AC CODE	6518998110	1	1	

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