

Service Manual

ORDER NO.
ARP2233

STEREO RECEIVER

SX-31

KU

SX-777

HE, HB, HEWZ

- Refer to the service manual ARP2070, SX-757/HE type.

SX-31 AND SX-777 HAVE THE FOLLOWING :

Type	Model		Power Requirement	Remarks
	SX-31	SX-777		
KU	○	—	AC120V only	
HE	—	○	AC220V-230V, 240V (Switchable) *	
HB	—	○	AC220V-230V, 240V (Switchable) *	
HEWZ	—	○	AC220V-230V, 240V (Switchable) *	

* Change the connection of the power transformer primary taps.

- This manual is applicable to the SX-31/KU, SX-777/HE, HB and HEWZ types.

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:

- Parts without part number cannot be supplied.
- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

The SX-31/KU, SX-777/HE, HB and HEWZ types are the same as the SX-757/HE type with the exception of the following sections.

Mark	Symbol & Description	Part No.					Remarks
		SX-757/ HE type	SX-31/ KU type	SX-777/ HE type	SX-777/ HB type	SX-777/ HEWZ type	
⊙	CONTROL assembly	AWZ3001	AWZ3509	AWZ3511	AWZ3511	AWZ3511	
⊙	COMPLEX assembly	AWZ3006	AWZ3508	AWZ3513	AWZ3513	AWZ3510	*1
	SP SWITCH assembly	Non supply	Non supply	Non supply	Non supply	Non supply	*2
	SP TERMINAL assembly	Non supply	Non supply	Non supply	Non supply	Non supply	*3
	LINE FILTER assembly	.....	.....	.....	.....	Non supply	
\triangle	T1 Power transformer	ATS1284	ATS1283	ATS1341	ATS1341	ATS1341	
\triangle	C1 KCA (0.022/AC400V)	ACG1030	ACG1030	ACG1030	ACG1030	.....
\triangle	C1 Power capacitor (0.1/AC250V)	.....	.....	.....	.....	ACE-507	
	C2	CQMXA104J100	.....	CQMXA104J100	CQMXA104J100	CQMXA104J100	
	C3	.....	.....	.....	.....	CQMXA104J100	
\triangle	FU1 Fuse (T2.5A/250V)	AEK-403	.....	AEK-512	AEK-512	AEK-512	
\triangle	FU1 Fuse (8A/125V)	.....	AEK-304	.....	.....	.....
\triangle	FU3, FU4 Fuse (T800mA/250V)	AEK-031	.....	AEK-507	AEK-507	AEK-507	
\triangle	FU3, FU4 Fuse (1.25A/125V)	.....	AEK-120	.....	.....	.....
\triangle	AC Power cord	ADG1021	ADG1057	ADG1021	ADG1085	ADG1021	
	Tact knob	.....	AAD1398	AAD1398	AAD1398	AAD1398	
	Push knob	.....	AAD1771	AAD1771	AAD1771	AAD1771	
	Station knob	AAD1810	AAD1982	AAD1982	AAD1982	AAD1982	
	Color plate	AAK1979	AAK1980	AAK1979	AAK1979	AAK1979	
	Acrylic panel	AAK1987	AAK1986	AAK2124	AAK2124	AAK2124	
	Screw	ABA-297	.....	ABA-297	ABA-297	ABA-297	
	Screw	.....	ABA1082	.....	.....	.....
	Mica sheet	AEC1123	AEE1014	AEC1123	AEC1123	AEC1123	
	Insulator assembly	AMR1434	.....	.....	.....	.....
	Insulator assembly	AMR1435	.....	.....	.....	.....
	Leg assembly	.....	AMR1159	AMR1159	AMR1159	AMR1159	
	Front panel	ANB1408	ANB1470	ANB1448	ANB1448	ANB1448	
	FM antenna	ADH1004	ADH1004	ADH1004	ADH1004	.....
	FM antenna assembly	.....	.....	.....	.....	ADH1002	
	Packing case	AHD1886	AHD2065	AHD2029	AHD2029	AHD2029	
	Remote control unit	AXD1153	AXD1213	AXD1213	AXD1213	AXD1213	

Mark	Symbol & Description	Part No.					Remarks
		SX-757/ HE type	SX-31/ KU type	SX-777/ HE type	SX-777/ HB type	SX-777/ HEWZ type	
	Operating instructions (English, French, German, Italian, Dutch, Swedish, Spanish, Portuguese)	ARE1168	.....	ARE1192	.....	.....
	Operating instructions (English)	.....	ARB1316	.....	ARB1317	.....
	Operating instructions (German)	.....	.....	.....	.....	ARC1266	



*1 : Refer to pages 5-9.

*2 : The SP SWITCH assemblies of the SX-757, SX-777/HE and HB types are the same.

*3 : The SP TERMINAL assemblies of the SX-757/HE, SX-31/KU, SX-777/HE and HB types are the same.



SP TERMINAL assembly (SX-777/HEWZ type)

The SP TERMINAL assembly (SX-777/HEWZ type) is the same as the SP TERMINAL assembly (SX-757/HE type) with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		SX-757/HE type	SX-777/HEWZ type	
	L951-L954	.....	ATH-133	
	C951-C954	.....	CKDYF103Z50	
	C955-C958	.....	CKDYB681K50	
	R951-R954	.....	RD1/2PMF101J	
	R955-R958	.....	RD1/4PMF100J	

SP SWITCH assemblies (SX-31/KU and SX-777/HEWZ types)

The SP SWITCH assemblies (SX-31/KU and SX-777/HEWZ types) are the same as the SP SWITCH assembly (SX-757/HE type) with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		SX-757/ HE type	SX-31/ KU type	SX-777/ HEWZ type	
	S570	SUJ5LXXS	SUJ5LXYS	SUJ5LXXS	
	C571, C572	.....	.....	CKDYB392K50	
	R571, R572	RS2LMF331J	RS3LMF331J	RS2LMF331J	
	R573, R574	.....	.....	RS1PMF681J	

© **CONTROL assemblies (AWZ3509 and AWZ3511)**

The CONTROL assemblies (AWZ3509 and AWZ3511) are the same as the CONTROL assembly (AWZ3001) with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		AWZ3001	AWZ3509	AWZ3511	
	IC801	PDG058 - A	PDG058	PDG058	
	Q801	RN1203	XDC124ES	XDC124ES	
	Q804	RN1201	XDC143ES	XDC143ES	
	Q891	.....	XDC143ES	XDC143ES	
	D891	.....	AEL1072	AEL1072	
	S802, S822 (HITS, MUTE)	.....	ASG1034	ASG1034	
	C321, C322	.....	CCCSL390J50	CCCSL390J50	
	C323, C324	.....	CEAS100M25	CEAS100M25	
	C325, C326	.....	CFTXA104J50	CFTXA104J50	
	C327, C328	.....	CFTXA823J50	CFTXA823J50	
	R327, R328	RD1/8PM122J	RD1/8PM332J	RD1/8PM332J	
	R329, R330	RD1/8PM152J	RD1/8PM821J	RD1/8PM821J	
	R331, R332	.....	RD1/8PM154J	RD1/8PM154J	
	R333, R334	.....	RD1/8PM332J	RD1/8PM332J	
	R335, R336	.....	RD1/8PM182J	RD1/8PM182J	
	R337, R338	.....	RD1/8PM392J	RD1/8PM392J	
	R339, R340	.....	RD1/8PM223J	RD1/8PM223J	
	R341, R342	.....	RD1/8PM152J	RD1/8PM152J	
	R343, R344	.....	RD1/8PM122J	RD1/8PM122J	
	R808	RD1/8PM473J	.....	.....
	R814	.....	RD1/8PM473J	.....
	R815	.....	RD1/8PM222J	RD1/8PM222J	
	R891	.....	RD1/8PM221J	RD1/8PM221J	

Mark No. Description Parts No.

LINE FILTER assembly (SX - 777/HEWZ type)

COIL

L701 LINE FILTER ATF-151

2. PCB's PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω	56×10^1	561.....	RD1/4PS	Δ	Δ	Δ	J
47k Ω	47×10^3	473.....	RD1/4PS	Δ	Δ	Δ	J
0.5 Ω	0R5.....		RN2H	Δ	Δ	Δ	K
1 Ω	0I0.....		RS1P	Δ	Δ	Δ	K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω	562×10^1	5621.....	RN1/4SR	Δ	Δ	Δ	F
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◎ COMPLEX ASSEMBLY (AWZ3508)

For this assembly, AWZ3508 (SX-31/KU type) parts are listed, then other model's corresponding assemblies are compared with AWZ3508.

Mark No.	Description	Parts No.	Mark No.	Description	Parts No.
SEMICONDUCTORS					
IC111	AM/FM IC	LA1265S	Q606	TRANSISTOR	XDC143ES
IC131	PLL IC	LM7001	Q621, 622	TRANSISTOR	2SC2240
IC151	MPX IC	AN7470P	Q751	TRANSISTOR	XDC143ES
IC201	OP-AMP-IC	M5220P			
IC202	E-SW IC	TC9164N	Q752	TRANSISTOR	2SC2458
IC253	OP-AMP IC	NJM4558S-X	D111-115	DIODE	HSS104-02
IC701	REGULATOR IC	M5F78M12L	D513, 514	DIODE	HSS104-02
IC702	REGULATOR IC	M5F79M12L	D521-524	DIODE	HSS104-02
IC751	REGULATOR IC	M5278L56 (A)	D561	DIODE	HSS104-02
			D601	ZENER DIODE	HZS12AL
Q101	TRANSISTOR	2SC2668	D621-626	DIODE	HSS104-02
Q102, 103	TRANSISTOR	XDA143ES	D701	DIODE	D5SB20F
Q131	N-FET	2SK246	D702, 703	DIODE	S5566
Q132	TRANSISTOR	2SC1740SLN	D705	ZENER DIODE	HZS24-2L
Q133	TRANSISTOR	2SC1740S	D706	ZENER DIODE	HZS6B2L
Q151, 152	TRANSISTOR	2SC1740S	D708-710	DIODE	HSS104-02
Q153	TRANSISTOR	2SA1048	D711	ZENER DIODE	HZS7B2L
Q261, 262	TRANSISTOR	XDC124ES	D712	ZENER DIODE	HZS6B2L
Q401-404	TRANSISTOR	2SC2878	D713	DIODE	S5566
Q421	TRANSISTOR	2SA1048	D714	DIODE	HSS104-02
Q422	TRANSISTOR	XDC143ES	D715, 716	DIODE	S5566
Q423	TRANSISTOR	2SC2458	D751, 752	DIODE	S5566
Q501-504	TRANSISTOR	2SA992	D754	DIODE	HSS104-02
Q513, 514	TRANSISTOR	2SC1845	D756, 757	DIODE	HSS104-02
Q521, 522	TRANSISTOR	2SA1145			
Q523, 524	TRANSISTOR	2SC2705	RELAIES		
Q551, 552	TRANSISTOR	2SC3298	RY561	RELAY	ASR-112
Q553, 554	TRANSISTOR	2SA1306	RY751	RELAY	ASR1027
Q601, 602	TRANSISTOR	2SC2458			
Q603	TRANSISTOR	2SA1048			
Q604	TRANSISTOR	2SC2458			
Q605	TRANSISTOR	XDC124ES			

Mark No.	Description	Parts No.	Mark No.	Description	Parts No.
COILS & TRANSFORMERS					
L111	COIL	ATE-079	C167	CERAMIC CAPACITOR	CCCSL101J50
L112, 131	AXIAL INDUCTOR	LAU2R2M	C201	ELECTR.CAPACITOR	CEAS010M50
L561, 562	COIL	ATH1004	C231, 232	ELECTR.CAPACITOR	CEAS100M50
F101, 102	CERAMIC FILTER	ATF-107	C233, 234	CERAMIC CAPACITOR	CCCSL221J50
F111	CERAMIC FILTER	ATF-208	C235, 236	ELECTROLYTIC CAPACIT	CEAS471M6
T751	POWER TRANSFORMER	ATT1011	C237, 238	AUDIO FILM CAPACITOR	CFTXA243J50
			C239, 240	AUDIO FILM CAPACITOR	CFTXA823J50
CAPACITORS					
C101-104	CERAMIC CAPACITOR	ACG1021	C241, 242	ELECTR.CAPACITOR	CEAS2R2M50
C105, 106	CERAMIC CAPACITOR	CKDYF223Z50	C243, 244	CERAMIC CAPACITOR	CKDYF103Z50
C107	CERAMIC CAPACITOR	CKDYF473Z50	C245, 246	ELECTR.CAPACITOR	CEAS470M16
C109	CERAMIC CAPACITOR	CKDYX104M25	C247, 248	CERAMIC CAPACITOR	CKCYB331K50
C111, 112	CERAMIC CAPACITOR	CKDYF223Z50	C249	CERAMIC CAPACITOR	CKCYB471K50
C113	ELECTR.CAPACITOR	CEAS330M16	C251, 252	ELECTR.CAPACITOR	CEAS2R2M50
C114	CERAMIC CAPACITOR	ACG1021	C253, 254	ELECTR.CAPACITOR	CEAS4R7M50
C115	CERAMIC CAPACITOR	CKDYF103Z50	C256, 257	CERAMIC CAPACITOR	CKDYF103Z50
C116	ELECTR.CAPACITOR	CEAS010M50	C409, 410	ELECTR.CAPACITOR	CEAS4R7M50
C117	CERAMIC CAPACITOR	ACG1018	C501, 502	ELECTR.CAPACITOR	CEAS2R2M50
C118	CERAMIC CAPACITOR	CKDYX103M25	C503, 504	MYLOR FILM CAPACITOR	CQMA471J50
C119	ELECTR.CAPACITOR	CEAS100M50	C505, 506	CERAMIC CAPACITOR	CKDYB681K50
C120	ELECTR.CAPACITOR	CEAS2R2M50	C508	ELECTR.CAPACITOR	CEAS101M16
C121	CERAMIC CAPACITOR	CKDYF222Z50	C509-512	CERAMIC CAPACITOR	CCCSL470J50
C122	CERAMIC CAPACITOR	CKDYF473Z50	C521, 522	ELECTR.CAPACITOR	CEAS220M16
C123	ELECTR.CAPACITOR	CEAS4R7M50	C523, 524	CERAMIC CAPACITOR	CCCSL060D500
C124	ELECTR.CAPACITOR	CEAS470M10	C525, 526	CERAMIC CAPACITOR	CCCSL050C500
C125, 130	CERAMIC CAPACITOR	ACG1021	C529, 530	ELECTR.CAPACITOR	CEAS101M10
C131, 132	CERAMIC CAPACITOR	CCDCH150J50	C551-554	CERAMIC CAPACITOR	CCCSL101K500
C133	CERAMIC CAPACITOR	ACG1021	C561, 562	AUDIO FILM CAPACITOR	CFTXA473J50
C134	CERAMIC CAPACITOR	CKDYF103Z50	C601	ELECTROLYTIC CAPACIT	CEAS471M6
C135	CERAMIC CAPACITOR	ACG1016	C602	CERAMIC CAPACITOR	CKDYF103Z50
C136	ELECTR.CAPACITOR	CEAS330M16	C603	ELECTR.CAPACITOR	CEAS101M16
C137	AUDIO FILM CAPACITOR	CFTXA224J50	C605	ELECTR.CAPACITOR	CEAS4R7M50
C138, 139	CERAMIC CAPACITOR	ACG1021	C621, 622	ELECTR.CAPACITOR	CEANP2R2M50
C140	ELECTR.CAPACITOR	CEAS470M16	C701	ELECTROLYTIC CAPACIT	ACH1200
C141	CERAMIC CAPACITOR	CKDYF473Z50	C702	ELECTROLYTIC CAPACIT	ACH1199
C151	ELECTR.CAPACITOR	CEANP4R7M35	C703	ELECTROLYTIC CAPACIT	CEAS102M35
C152	CERAMIC CAPACITOR	CKDYF473Z50	C704	ELECTR.CAPACITOR	CEAS100M50
C153, 154	MYLOR FILM CAPACITOR	CQMA152J50	C705	ELECTROLYTIC CAPACIT	CEAS470M35
C155, 156	ELECTR.CAPACITOR	CEAS4R7M50	C706	ELECTR.CAPACITOR	CEAS100M25
C157, 158	CERAMIC CAPACITOR	CKDYB182K50	C707	CEA (47000/5.5V)	ACH1037
C159	ELECTR.CAPACITOR	CEAS470M16	C708	CKA (0.01/AC400V)	ACG1002
C160	CERAMIC CAPACITOR	ACG1021	C709	CKA (0.01/AC250V)	ACG1005
C161	ELECTR.CAPACITOR	CEASR22M50	C710	ELECTR.CAPACITOR	CEAS470M10
C162	ELECTROLYTIC CAPACIT	CEAS1R5M50			
C163	ELECTR.CAPACITOR	CEAS3R3M50			
C164	CAPACITOR	ACE1039			

© COMPLEX assemblies (AWZ3513 and AWZ3510)

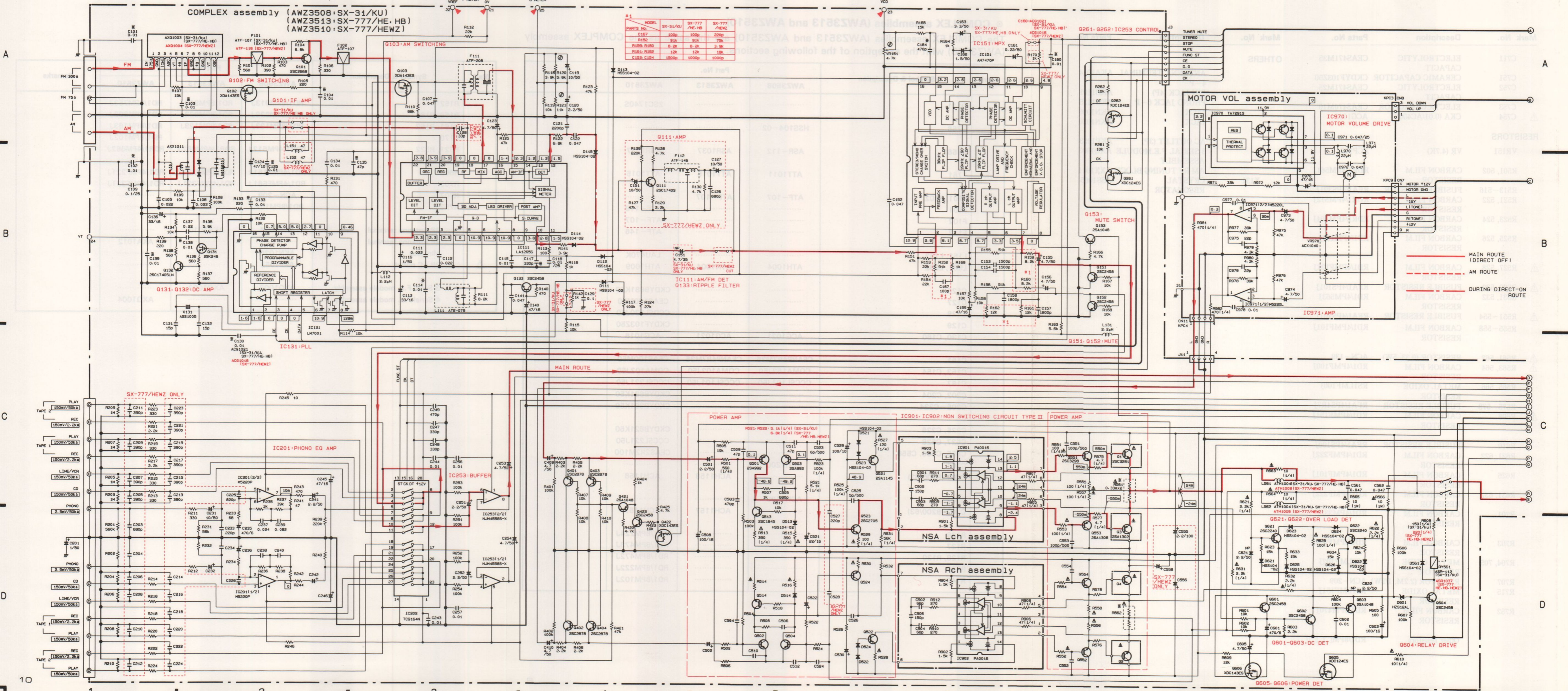
The COMPLEX assemblies (AWZ3513 and AWZ3510) are the same as the COMPLEX assembly (AWZ3508) with the exception of the following sections.

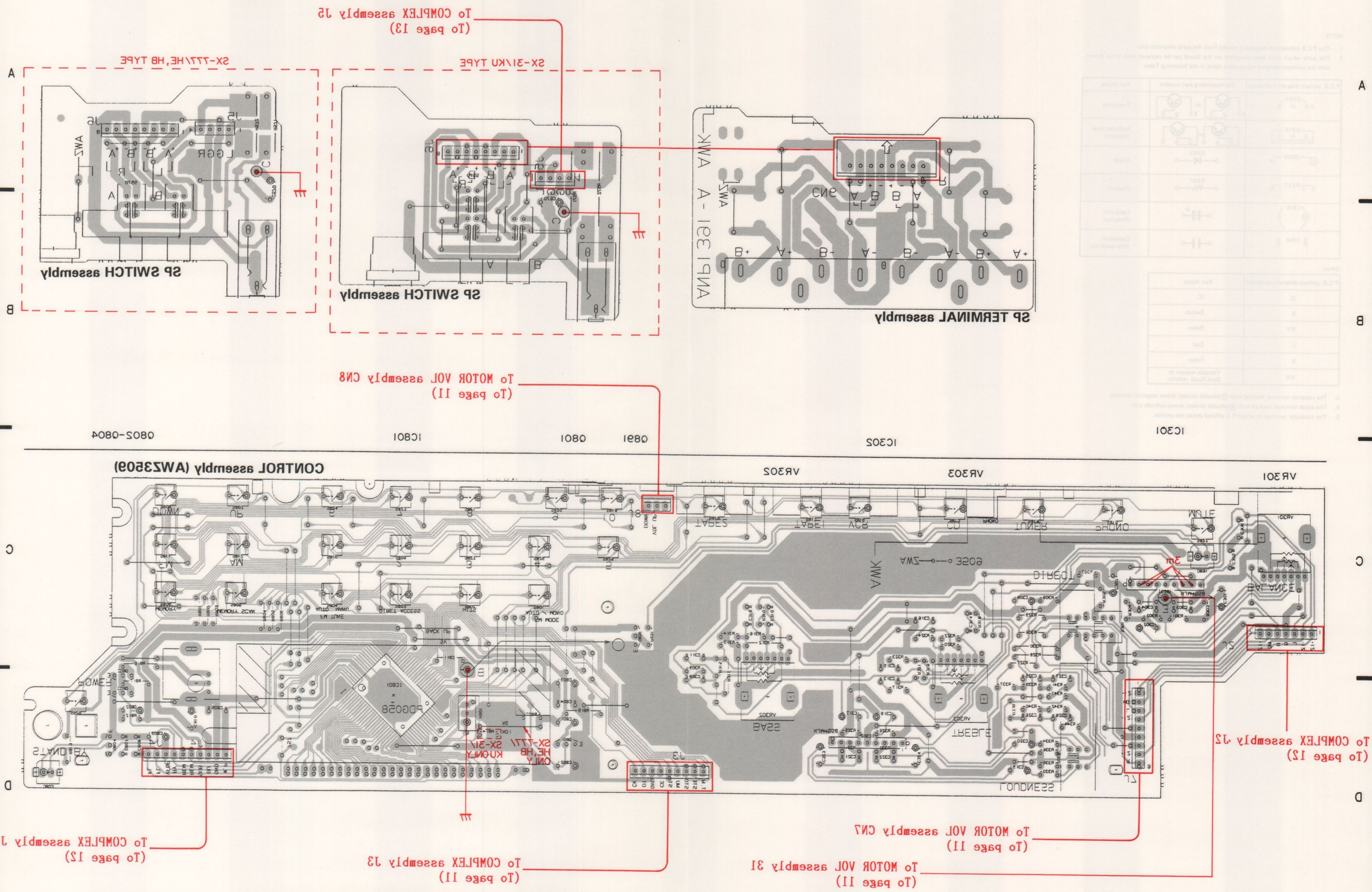
Mark No.	Description	Parts No.	Mark No.	Description	Parts No.
C711	ELECTROLYTIC CAPACIT	CEAS471M35	OTHERS		
C751	CERAMIC CAPACITOR	CKDYF103Z50		ANTENNA TERMINAL 4-P	AKA1014
C752	ELECTROLYTIC CAPACIT	CEAS471M25		PIN JACK (4P)	AKB1101
C753	ELECTR.CAPACITOR	CEAS470M10		PHONO JACK 6-P	AKB1135
△ C754	CKA (0.01/AC400V)	ACG1002		JACK	AKN1006
				JACK	AKN1020
RESISTORS					
VR151	VR (4.7K)	ACP1024		AC OUTLET (3P)	AKP1053
R501, 502	CARBON FILM RESISTOR	RDR1/4PM561J		3 SERIAL F.E.MODULE ASSEMBLY	AXQ1003
R513-516	FUSIBLE RESISTOR	RFA1/4PS391J	X131	AM RF TUNING BLOCK	AXX1011
R521, 522	CARBON FILM RESISTOR	RDR1/4PM512J		CRYSTAL RESONATOR	ASS1005
R523, 524	CARBON FILM RESISTOR	RDR1/4PM104J			
R525, 526	CARBON FILM RESISTOR	RD1/4PM104J			
△ R527, 528	CARBON FILM RESISTOR	RD1/4PMF121J			
△ R529, 530	FUSIBLE RESISTOR	RFA1/4PS101J			
R531, 532	CARBON FILM RESISTOR	RD1/4PM563J			
△ R551-554	FUSIBLE RESISTOR	RFA1/4PS101J			
R555-558	CARBON FILM RESISTOR	RD1/4PMF101J			
△ R561, 562	RESISTOR (0.33, 5W)	ACN-139			
△ R563, 564	CARBON FILM RESISTOR	RD1/4PMF100J			
R565, 566	METAL OXIDE RESISTOR	RS1LMF100J			
R575-578	FUSIBLE RESISTOR	RFA1/4PS4R7J			
△ R608	CARBON FILM RESISTOR	RD1/4PMF151J			
R610	FUSIBLE RESISTOR	RFA1/4PS100J			
R621, 622	CARBON FILM RESISTOR	RD1/4PMF222J			
R625	CARBON FILM RESISTOR	RD1/4PMF101J			
R631, 632	CARBON FILM RESISTOR	RD1/4PMF222J			
R701	CARBON FILM RESISTOR	RD1/4PM332J			
R703	CARBON FILM RESISTOR	RD1/4PMF561J			
R704, 705	METAL OXIDE RESISTOR	RS2LMF102J			
R707	RESISTOR (2.2M, 1/2W)	ACN-209			
R715	METAL OXIDE RESISTOR	RS1LMF151J			
R752	CARBON FILM RESISTOR	RD1/2PM470J			
	Other resistors	RD1/8PM□□□J			

Mark	Symbol & Description	Part No.			Remarks
		AWZ3508	AWZ3513	AWZ3510	
	Q111	.....	.....	2SC1740S	
	D756	HSS104-02	.....	.....
	RY561	ASR-112	ASR1037	ASR1037	
△	T751	ATT1011	ATT1015	ATT1015	
	F101, F102	ATF-107	ATF-107	.....
	F101	.....	.....	ATF-119	
	F102	.....	.....	ATF-107	
	F112	.....	.....	ATF-146	
	L151, L152	.....	.....	LAU470K	
	L561, L562	ATH1004	ATH1004	ATH1009	
	C126	.....	.....	CKDYB681K50	
	C127	.....	.....	CEAS100M50	
	C128	.....	.....	CCDSL330J50	
	C129	.....	.....	CKDYF103Z50	
	C130, C160	ACG1021	ACG1021	ACG1016	
	C151	CEANP4R7M35	CEANP4R7M35	CEAS100M50	
	C153, C154	CQMA152J50	CQMA102J50	CQMA102J50	
	C167	CCCSL101J50	CCCSL101J50	CCCSL221J50	
	C203, C204	.....	.....	CKDYB681K50	
	C205-C224	.....	.....	CKDYB391K50	
	C225, C226	.....	.....	CKDYB821K50	
	C527, C528	.....	.....	CCCSL221J50	
	C555, C556, C558	.....	.....	CEAS2R2M100	
	C701	ACH1200	.....	.....
	C701 (8200/63)	.....	ACH1158	ACH1158	
	C702	ACH1199	.....	.....
	C702 (8200/63)	.....	ACH1157	ACH1157	
	R126	.....	.....	RD1/8PM224J	
	R127	.....	.....	RD1/8PM473J	
	R128, R130	.....	.....	RD1/8PM472J	
	R129	.....	.....	RD1/8PM222J	
	R142	.....	.....	RD1/8PM102J	

Mark	Symbol & Description	Part No.			Remarks
		AWZ3508	AWZ3513	AWZ3510	
	R152	RD1/8PM913J	RD1/8PM913J	RD1/8PM753J	
	R159, R160	RD1/8PM822J	RD1/8PM822J	RD1/8PM392J	
	R161, R162	RD1/8PM123J	RD1/8PM123J	RD1/8PM183J	
	R170	.....	.....	RD1/8PM102J	
	R521, R522	RDR1/4PM512J	RDR1/4PM682J	RDR1/4PM682J	
	R608	RD1/4PMF151J	RD1/4PMF221J	RD1/4PMF221J	
	R703	RD1/4PMF561J	RD1/4PMF331J	RD1/4PMF331J	
	R707	ACN-209	.....	.....
	R753	RD1/8PM102J	.....	.....
	4P Antenna terminal	AKA1014	AKA1010	.....
	2P Antenna terminal	.....	.....	AKA1012	
	Mini jack	AKN1020	.....	.....
△	3P AC outlet	AKP1053	.....	.....
	3 Serial F.E. module assembly	AXQ1003	AXQ1003	.....
	4 Serial F.E. module assembly	.....	.....	AXQ1004	

3. SCHEMATIC AND P.C.BOARDS CONNECTION DIAGRAM





Part Name	Quantity	Notes
IC301	1	
IC303	1	
IC305	1	
IC801	1	
IC803	1	
IC804	1	
IC805	1	

NOTE:
 1. The P.C.B. connection diagram is shown from the rear mounted side.
 2. The parts which are not mounted on the board can be replaced with their stock.
 3. The replacement wiring symbols used in the following table.

1. The capacitor symbol marked with (C) denotes electrolytic capacitors.
 2. The resistor symbol marked with (R) denotes resistors whose values are:
 3. The resistor marked with (R) is a fixed value resistor.
 4. The resistor marked with (R) is a fixed value resistor.

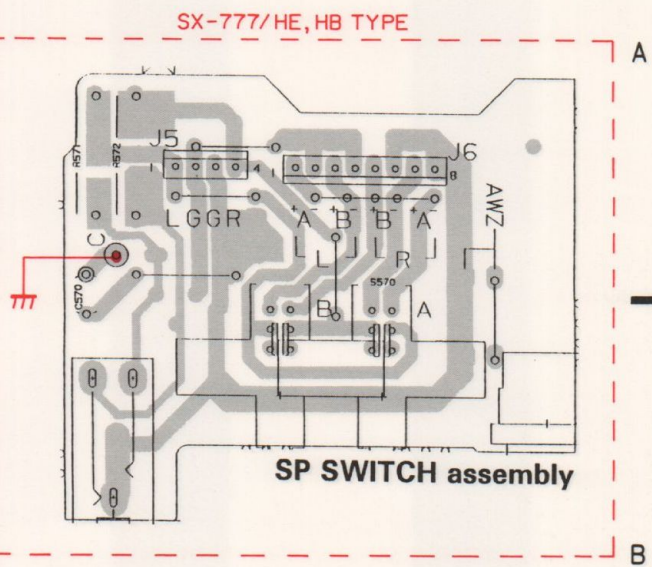
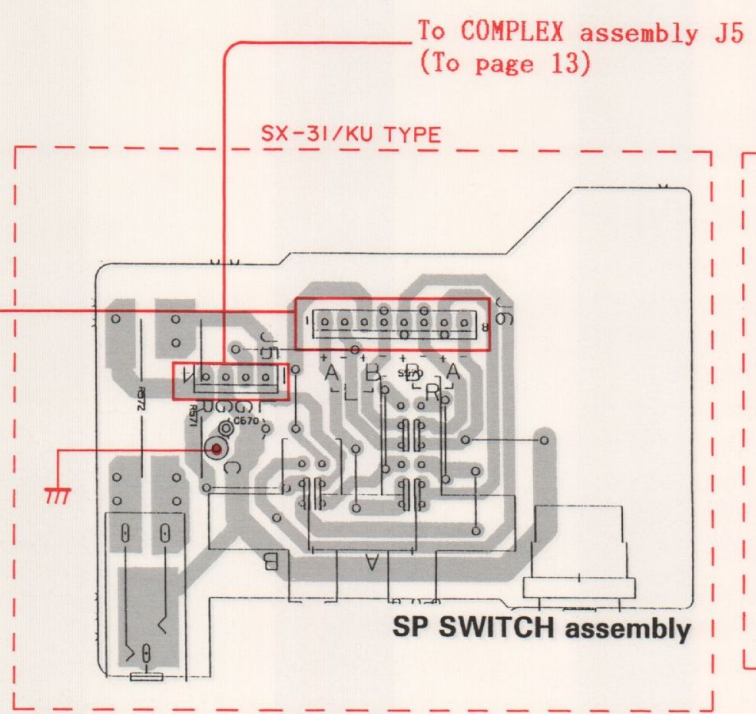
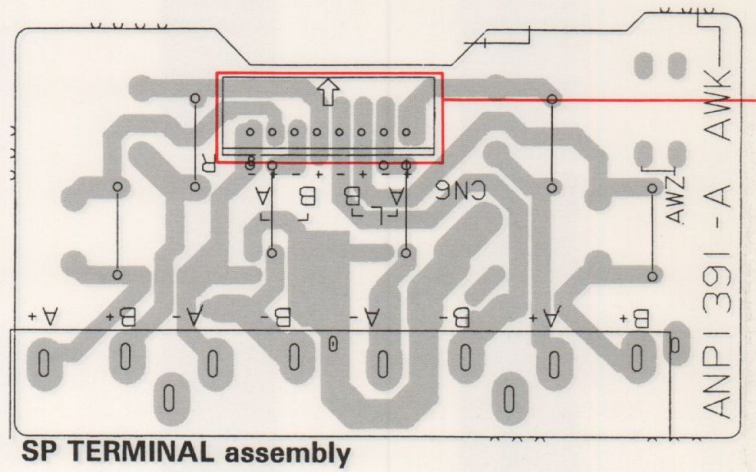
NOTE
 1. This P.C.B. connection diagram is viewed from the parts mounted side.
 2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

Others

P.C.B. pattern diagram indication	Part Name
	IC
	Switch
	Relay
	Coil
	Filter
	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ⊕ (double circles) shows negative terminal.
 4. The diode terminal marked with ⊕ (double circles) shows cathode side.
 5. The transistor terminal to which E is affixed shows the emitter.



IC301

IC302

Q891

Q801

IC801

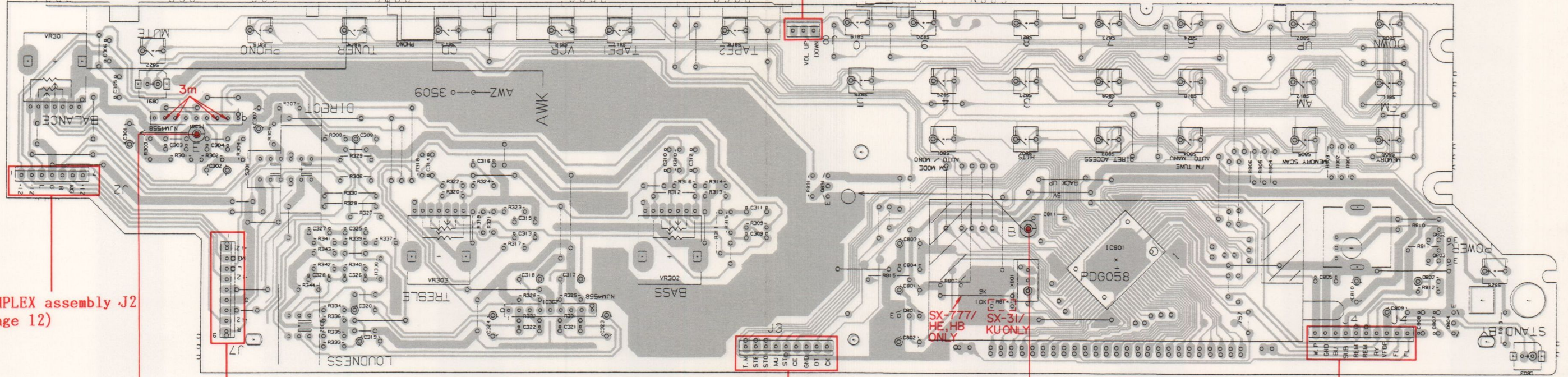
Q802-Q804

VR301

VR303

VR302

CONTROL assembly (AWZ3509)



To COMPLEX assembly J2
(To page 12)

To MOTOR VOL assembly CN7
(To page 11)

To MOTOR VOL assembly 31
(To page 11)

To COMPLEX assembly J3
(To page 11)

To COMPLEX assembly J4
(To page 12)

FOR SX-777/HEWZ TYPE

- As to the other assemblies, refer to "FOR SX-31/KU, SX-777/HE AND HB TYPES".

A

NOTE

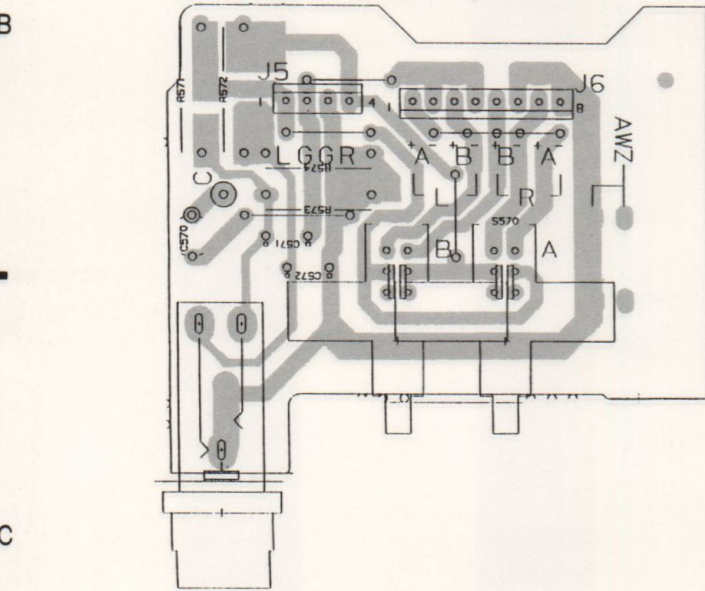
- The P.C.B. connection diagram is viewed from the parts mounted side.
- The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)
		Diode
		Transistor
		Relay type transistor
		Switch
		Relay
		Coil
		Filter
		Variable resistor or Semi-fixed resistor

P.C.B. pattern diagram indication	Part Name
	IC
	Switch
	Relay
	Coil
	Filter
	Variable resistor or Semi-fixed resistor
	Diode
	Transistor

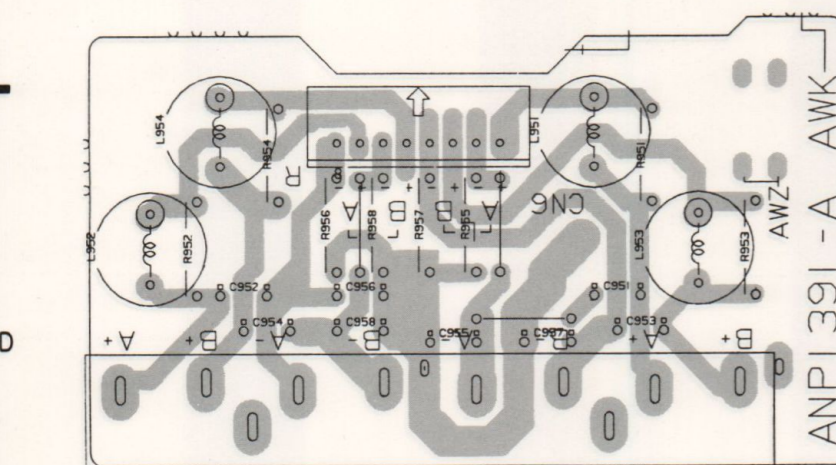
- The capacitor terminal marked with (double circles) shows negative terminal.
- The diode terminal marked with (double circles) shows cathode side.
- The transistor terminal to which E is affixed shows the emitter.

SP SWITCH assembly



B

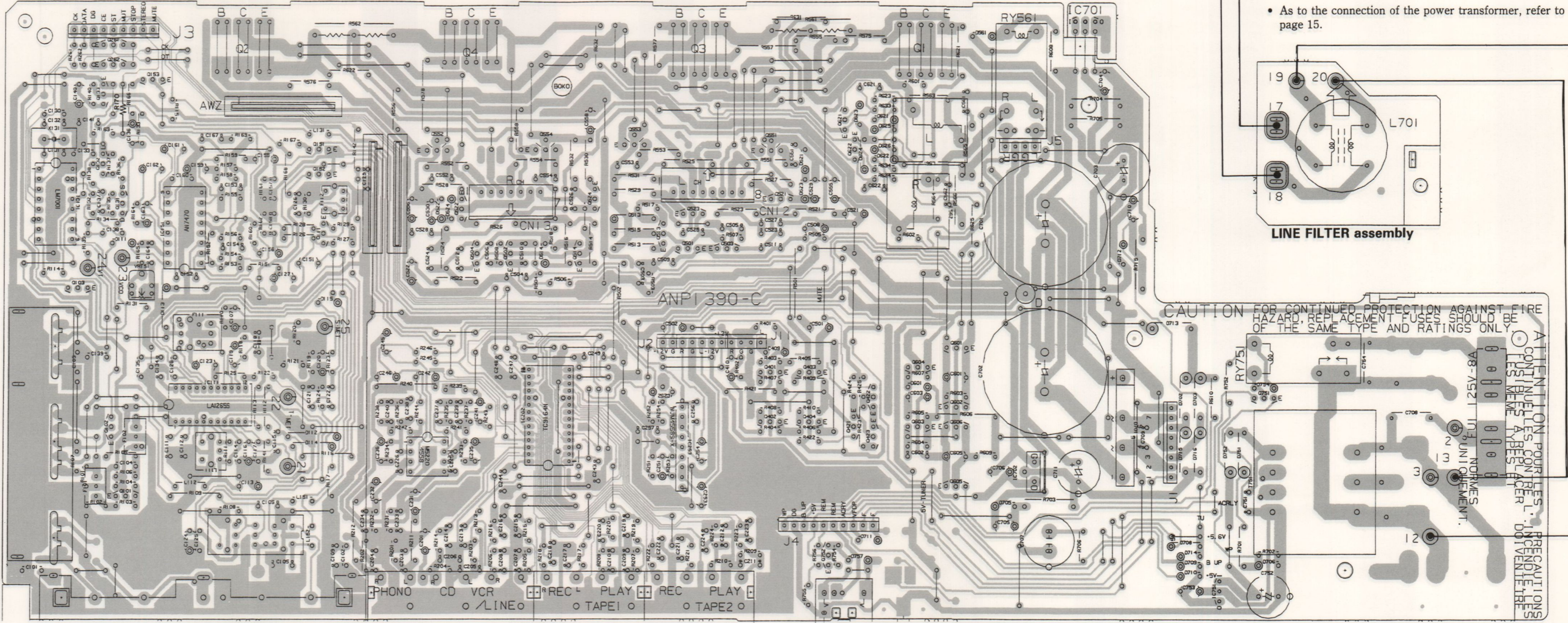
C



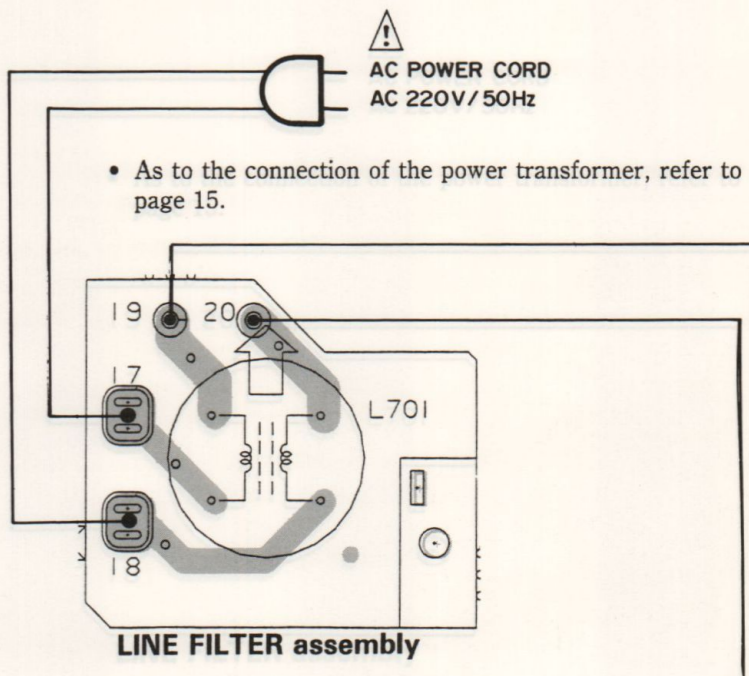
SP TERMINAL assembly

D

COMPLEX assembly (AWZ3510)



- VR151
- Q261 Q262 Q131-Q133 Q153
- IC131 Q103 IC151
- Q102 IC111
- Q101
- Q2
- Q151 Q152 Q111
- Q552 Q4
- IC201
- Q554 Q553
- IC202
- Q3
- Q551 Q621 Q1
- IC701
- Q513 Q501 Q523 Q503 Q521
- Q622
- Q401-Q404 Q421-Q423 Q601-Q606
- Q752
- IC702
- Q751
- IC751



LINE FILTER assembly

- As to the connection of the power transformer, refer to page 15.

CAUTION FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACEMENT FUSES SHOULD BE OF THE SAME TYPE AND RATINGS ONLY.

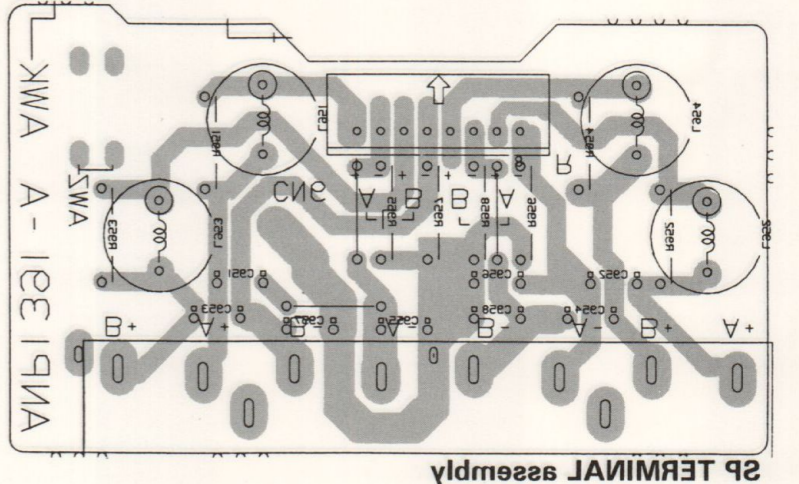
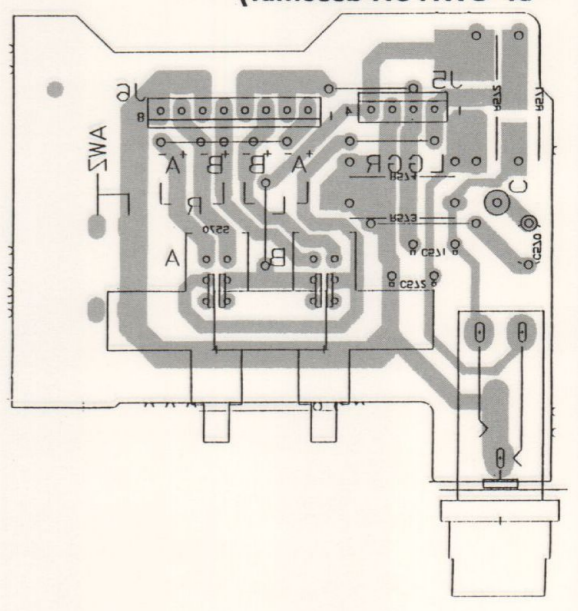
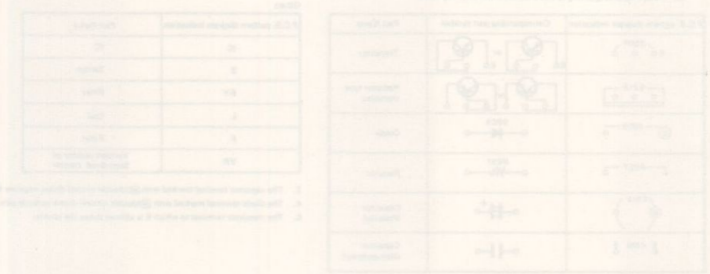
ATTENTION POUR LES PRECAUTIONS CONTINUES PROTECTION CONTRE LES RISQUES D'INCENDIE, LES FUSIBLES DOIVENT ETRE DE MEME TYPE ET DE MEME RATING.

A

B

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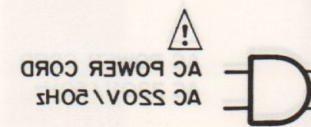
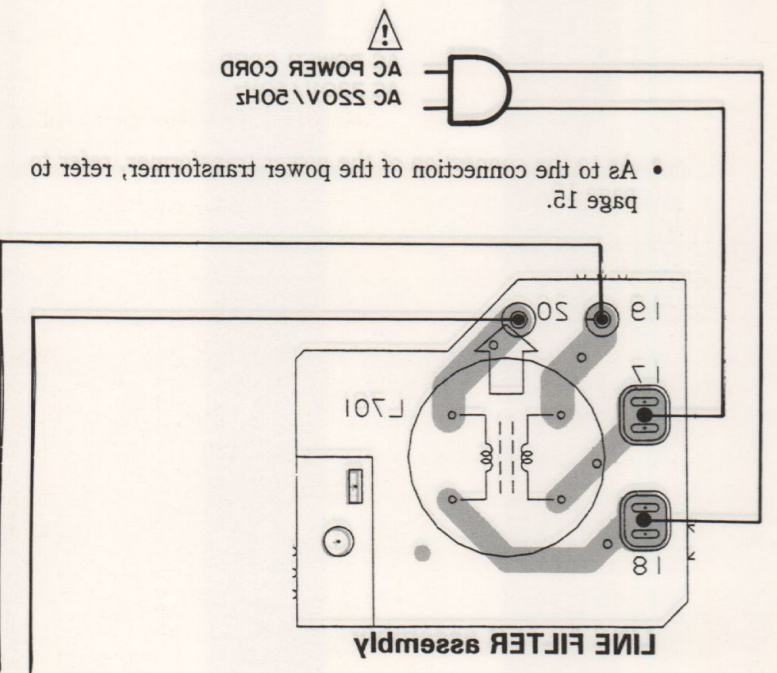
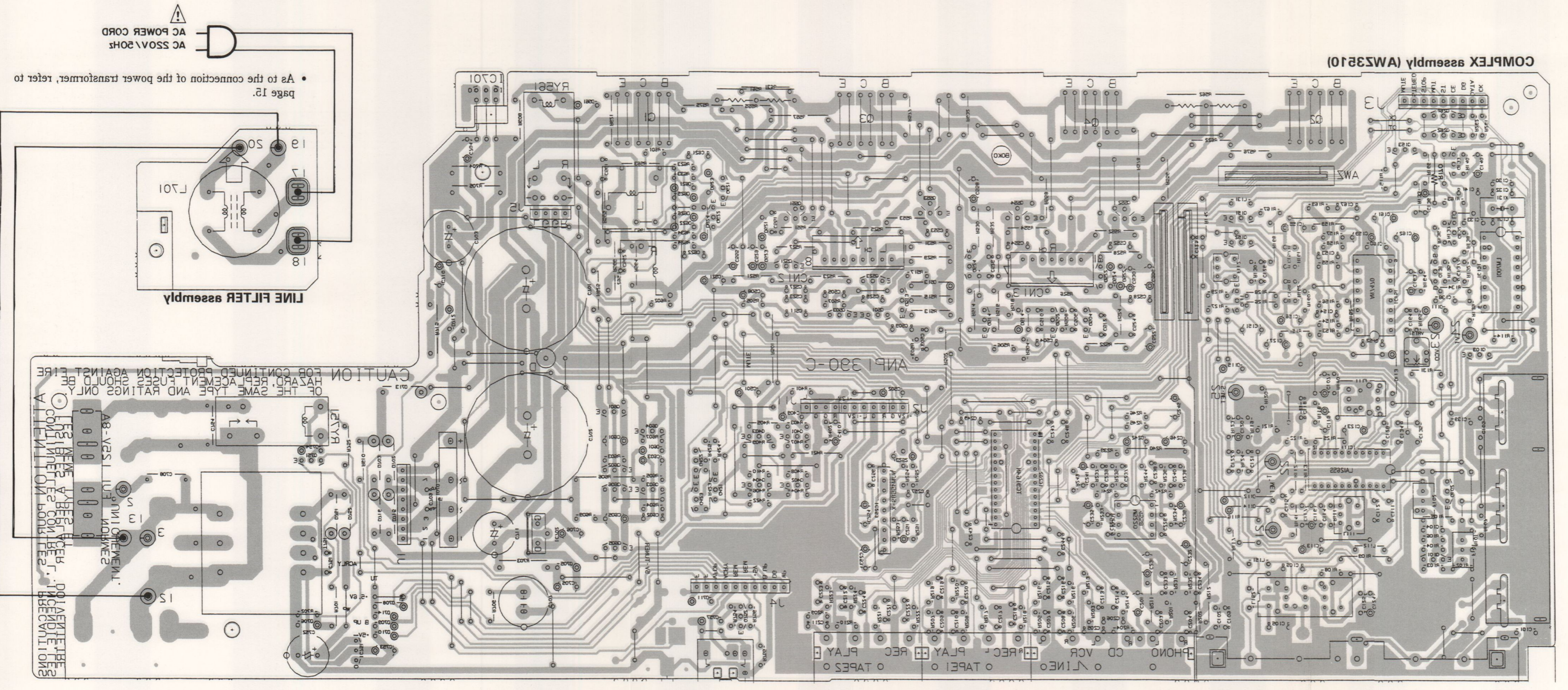
D



2P TERMINAL assembly

2P SWITCH assembly

COMPLEX assembly (WZ3510)



• As to the connection of the power transformer, refer to page 15.

CAUTION FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACEMENT FUSES SHOULD BE OF THE SAME TYPE AND RATINGS ONLY. CONSULT THE MANUFACTURER'S LITERATURE FOR FUSE REPLACEMENT INSTRUCTIONS.

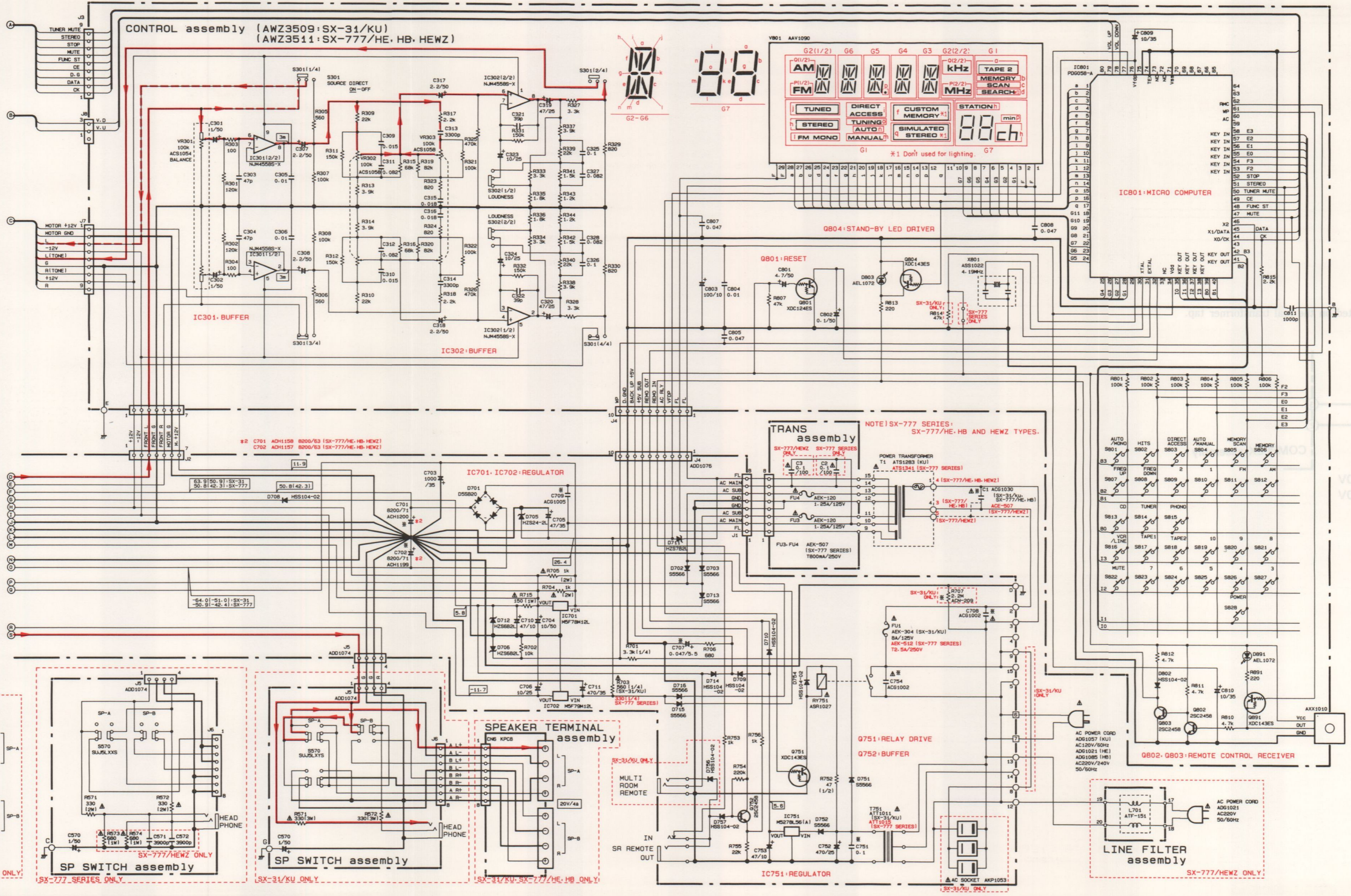
- IC251
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A

B

C

D



- RESISTORS:**
 Indicated in Ω, ¼W, ½W, ±5% tolerance unless otherwise noted k: kΩ, M: MΩ, (F): ±1%, (G): ±2%, (K): ±10% (M): ±20% tolerance
- CAPACITORS:**
 Indicated in capacity (µF)/voltage (V) unless otherwise noted p: pF
 Indication without voltage is 50V except electrolytic capacitor.
- VOLTAGE, CURRENT:**
 □: Signal voltage at (W + W 8Ω)output (1kHz)
 □: DC voltage (V) at no input signal
 Value in () is DC voltage at rated power.
 ← mA: DC current at no input signal
- OTHERS:**
 →: Signal route.
 ⊗: Adjusting point.
 The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 ※: marked capacitors and resistors have parts numbers.

- SWITCHES:**
- SP SWITCH assembly**
 S570 SP A ON-OFF / SP B ON-OFF
- CONTROL assembly**
 S801 FM MODE AUTO/MONO
 S802 HITS
 S803 DIRECT ACCESS
 S804 FM TUNING AUTO/MANUAL
 S805 MEMORY SCANS
 S806 MEMOLY
 S807 FREQ UP
 S808 FREQ DOWN
 S809 2
 S810 1
 S811 FM
 S812 AM
 S813 CD
 S814 TUNER
 S815 PHONO
 S816 VCR/LINE
 S817 TAPE 1/DAT
 S818 TAPE 2/ADAPTOR
 S819 10
 S820 9
 S821 8
 S822 MUTE
 S823 7
 S824 6
 S825 5
 S826 4
 S827 3
 S828 POWER STAND-BY/ON
 S301 DIRECT ON/OFF
 S302 LOUDNESS

Line voltage selection (For SX – 777/HE, HB and HEWZ types.)

Line voltage can be changed with the following steps.

1. Disconnect the AC Power cord.
2. Remove the top cover.
3. Change the connection of the power transformer primary taps.
4. Change the connection to the capacitor (C1) on the primary side of the power transformer.
5. Stick the line voltage label on the rear panel.

Part No.	Description
AAX – 193	220V label
AAX – 192	240V label

