

TA-F333ESR/F730ES

SERVICE MANUAL

AEP Model
UK Model

TA - F730ES

E Model

TA - F333ESR



photo : TA - F730ES

REVISED

SPECIFICATIONS

Item	Condition		Data	
Continuous RMS power output (both channels driven simultaneously)	4 ohms, 20 Hz-20 kHz THD 0.008%	UK, E, <u>WG</u> model	145 W + 145 W (THD 0.008%) (DIN: 185 W + 185 W)	
		UK, E, <u>WG</u> model	125 W + 125 W (DIN: 150 W + 150 W)	
	6 ohms, 20 Hz-20 kHz THD 0.006%	AEP model	120 W + 120 W (DIN: 140 W + 140 W)	
		UK, E, <u>WG</u> model	110 W + 110 W (DIN: 130 W + 130 W)	
		AEP model	105 W + 105 W (DIN: 115 W + 115 W)	
8 ohms, 20 Hz-20 kHz THD 0.004%				
Power band width (IHF)	8 ohms, THD 0.02%		10 Hz - 100 kHz at 50 W	
Dynamic headroom ('78 IHF)	4 ohms		3 dB	
	8 ohms		2 dB	
Total harmonic distortion	8 ohms, at 10 watt output		0.002%	
Intermodulation (IM) distortion 60 Hz: 7 kHz = 4:1	4 ohm, at rated output		0.008%	
	6 ohms at rated output		0.006%	
	8 ohms at rated output		0.004%	
Damping factor	8 ohms, 1 kHz		100	
Residual noise	network A		less than 115µV	
Frequency response	PHONO MM		RIAA equalization curve ±0.2 dB	
	TUNER, CD, TAPE 1, 2, 3, DIRECT IN		2 Hz - 200 kHz $\begin{smallmatrix} +0 \\ -3 \end{smallmatrix}$ dB	
Input sensitivity	PHONO	MC	3 ohms	0.17 mV, 100 ohms
			40 ohms	0.17 mV, 1 kohm
		MM	2.5 mV, 50 kohms	
	TUNER, CD, DIRECT IN, TAPE 1, 2, 3 ADAPTOR IN		150 mV, 50 kohms	

— Continued on page 2 —

INTEGRATED STEREO AMPLIFIER
SONY®

Item	Condition		Data
S/N (network)	PHONO	MC	68 dB 76 dB* (A)
		MM	80 dB 87 dB* (A)
78 (IHF)	TUNER, CD, DIRECT IN, TAPE 1, 2, 3 ADAPTOR IN		84 dB 105 dB (A)
Output voltage impedance	REC OUT 1, 2, 3 ADAPTOR OUT		150 mV, 1 kohm
			PREOUT 1.0 V, 100 ohms
	HEADPHONES		25 miliwatts (at 8 ohms) Accepts low and high impedance headphones.
Tone controls	BASS, at 100 Hz		+4 -5.5 dB (turnover frq. 200 Hz)
			+6 -7 dB (turnover frq. 400 Hz)
	TREBLE, at 10 kHz		+7 -8 dB (frq. 3 kHz)
			+4 -5 dB (frq. 6 kHz)
SUBSONIC filter	—		6 dB/octave attenuation below

General

System Preamplifier section: Low-noise high gain NFB type equalizer amplifier, passive type direct tone control
Power amplifier section: Pure-complementary SEPP power amplifier

Power requirements

AEP model : 220 V AC, 50 Hz
U K model : 240 V AC, 50 Hz
E model : 120 V, 220 V or 240 V AC adjustable, 50/60 Hz

Power consumption

AEP model : 260W
U K model : 800W
E model : 370W

AC outlet

AEP, UK model: 1 switched, 100watts max.
E model: 1 switched, 1 unswitched, 100 watts each

Dimensions

AEP, E model: Approx. 470 x 166 x 436 mm (w/h/d)
(18 1/2 x 6 5/8 x 17 1/4 inches)
U K model: Approx. 430 x 165 x 435 mm (w/h/d)
(18 1/2 x 6 1/2 x 17 1/4 inches)

Weight

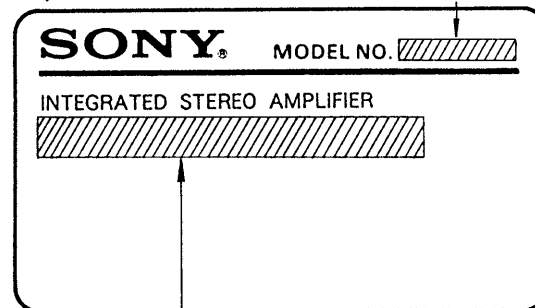
AEP, E model : Approx. 21.2 kg (46 lbs 12 oz) net
U K model : Approx. 19.9 kg (43 lbs 14 oz) net

MODEL IDENTIFICATION

— Specification Label —

AEP, UK model : TA-F730ES

E model : TA-F333ESR



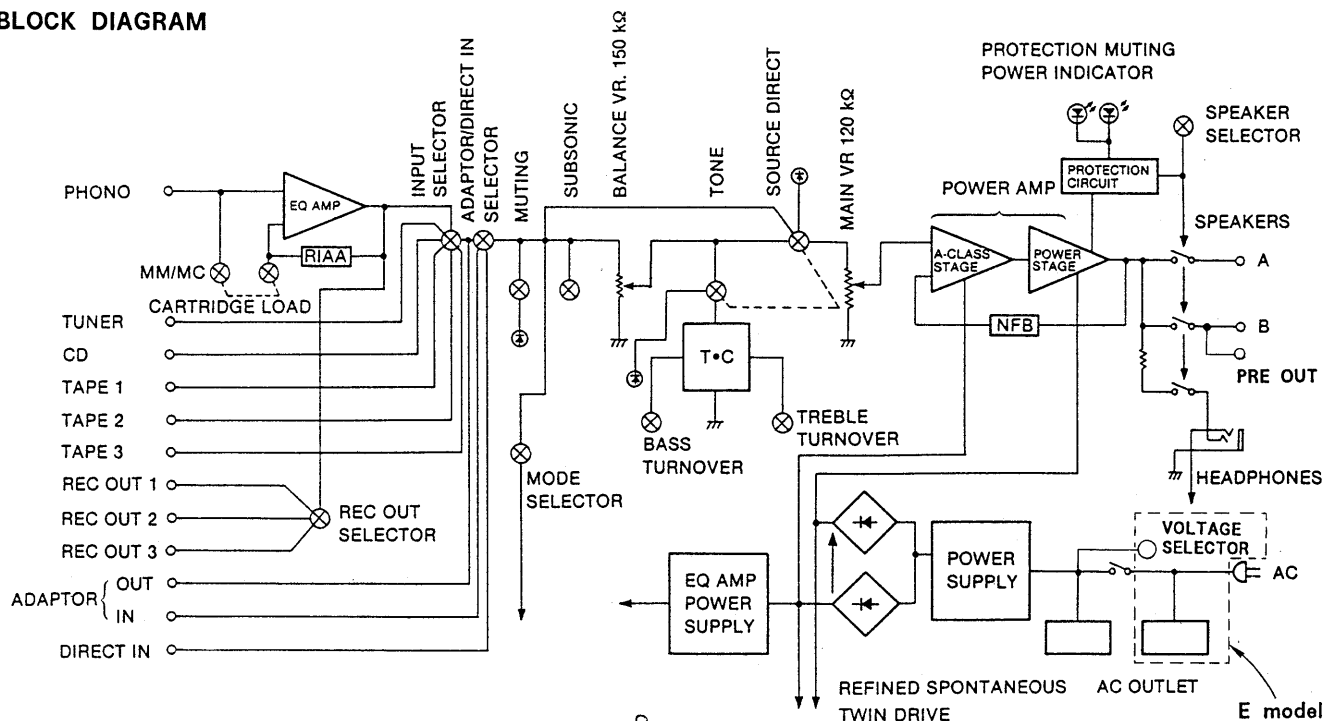
AEP model : AC220V~50/60Hz 260W

U K model : AC240V~50/60Hz 800W

West Germany model : AC220V 50/60Hz

E model : AC120/220/240V~50/60Hz 370W

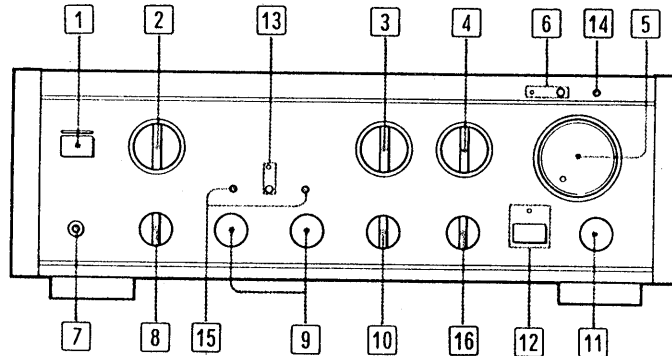
BLOCK DIAGRAM



SECTION 1

GENERAL

Function of Controls



- 1 POWER switch and power/standby indicator**
Immediately after turning ON the power, the standby indicator lights in red as the built-in muting circuit activates.
When the amplifier stays in a stable operating condition, the indicator lights in green.
The indicator lights in red when the unit detects shorting of circuit of the speaker outputs or in case of short-circuit of the inputs of DC components.
In such a case, disconnect the power source and check the connected components and speaker systems.
- 2 SPEAKERS selector**
Select speaker system A or B, or both.
To use power amplifier or active speaker system connected to the PRE OUT jacks, set the selector to B/ PRE OUT
For headphone monitoring only, set the selector to OFF.
- 3 ADAPTOR/DIRECT IN switch**
Set to NORMAL to select program source by INPUT SELECTOR. To listen to a program source processed through adaptor (graphic equalizer, for example) connected to ADAPTOR jacks, set the selector to ADAPTOR.
To listen to a program source connected to DIRECT IN jacks, set it to DIRECT IN.
Note that selecting ADAPTOR has no effect upon the signals output through the REC OUT jacks.
- 4 INPUT SELECTOR**
Selects the desired program source.
- 5 ATTENUATOR knob**
Regulates the sound level.
- 6 MUTING switch and indicator**
Generally, keep the switch released (OFF).
Depress the switch to reduce the sound level by 20 dB. (Output voltage becomes 1/10.)
- 7 HEADPHONES jack (stereo phone jack)**
- 8 MODE selector**
STEREO: For listening to a stereo program.
MONO: For listening to a monaural program.
- 9 BASS and TREBLE controls**
- 10 REC OUT SELECTOR**
Selects the program source sent to the REC OUT jacks (rear panel).
- 11 BALANCE control**
Controls the sound level of left and right speakers.
- 12 SOURCE DIRECT switch and indicator**
Depress the switch. The red indicator lights and the circuits of the tone control, subsonic filter switch balance control and mode switch are disengaged without regard to the setting of the switches.
When this switch is activated, the indicator of the TONE switch does not light.
- 13 TONE switch and indicator**
Depress the switch to activate the tone control circuit. Red indicator lights.
- 14 SUBSONIC filter switch**
Depress the switch to reduce unwanted noise components of less than 15 Hz, which cause modulation noise.
- 15 TURNOVER frequency selection switches**
Switch the turnover frequency.
- 16 CARTRIDGE LOAD selector**
Set the selector according to your cartridge.
MM: For moving-magnet type cartridge
MC: For moving-coil type cartridge
40 Ω : For a cartridge with an impedance of 40 ohms or more.
3 Ω : For a cartridge with an impedance of 3 ohms to 40 ohms.

The selection of program source

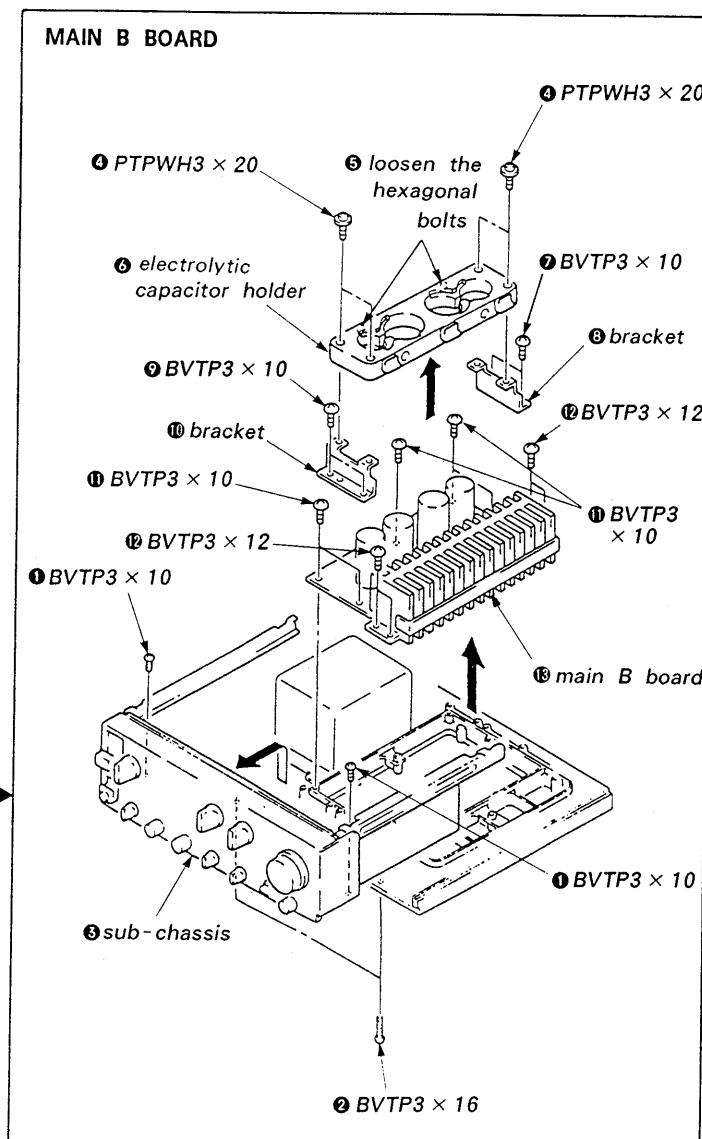
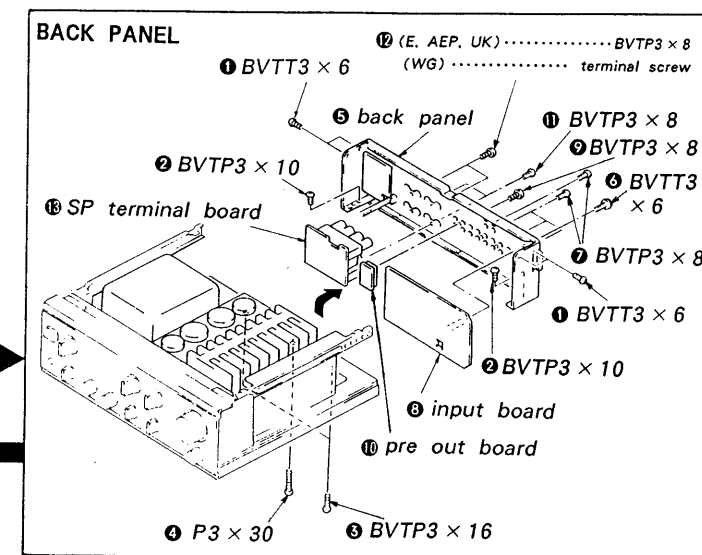
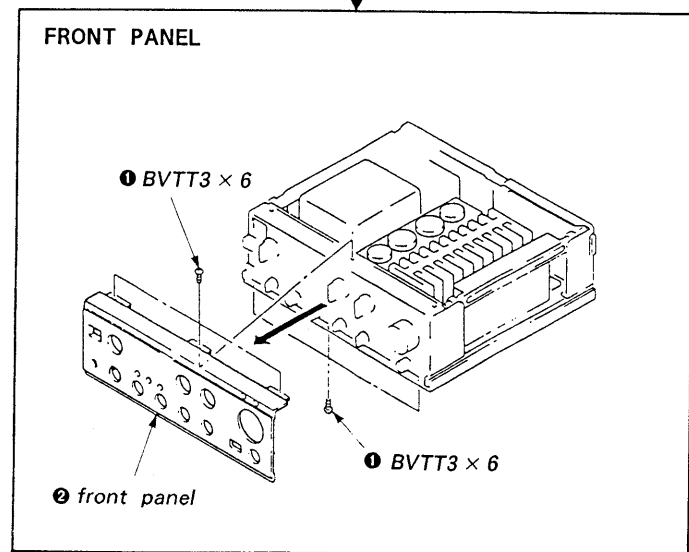
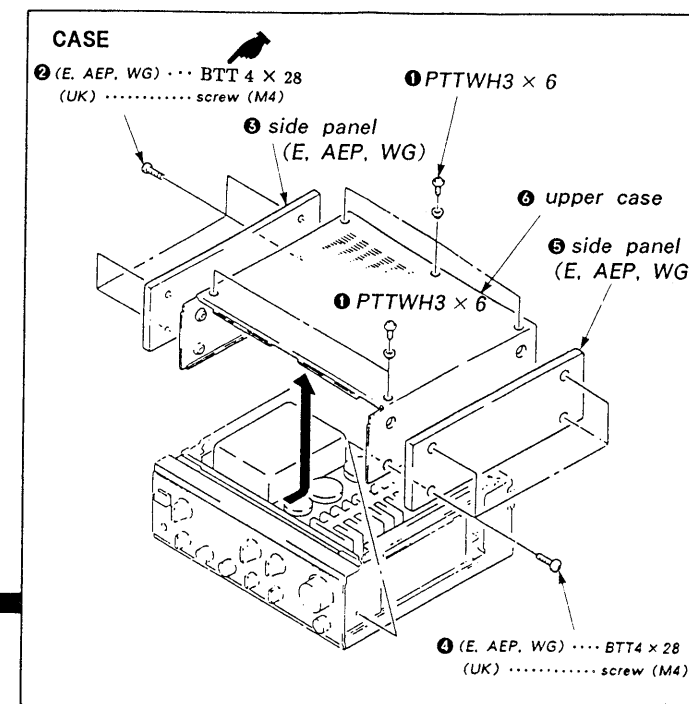
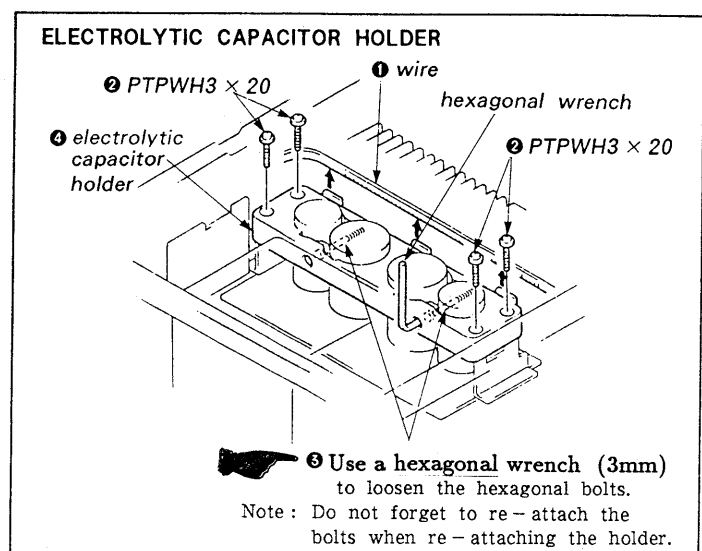
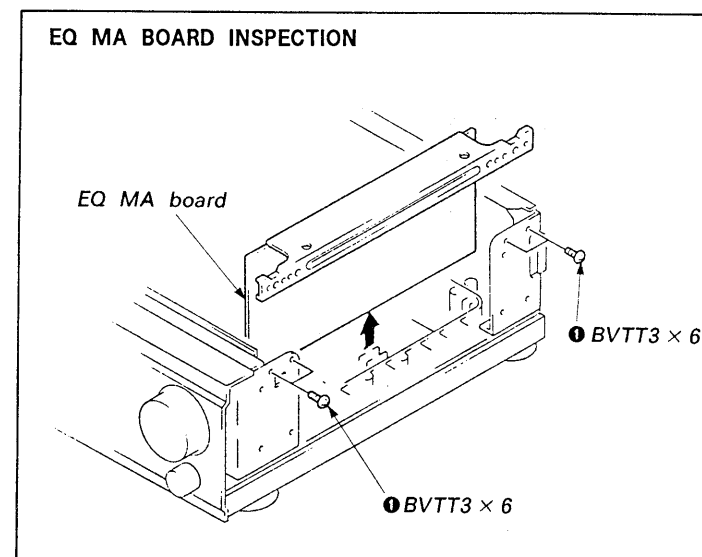
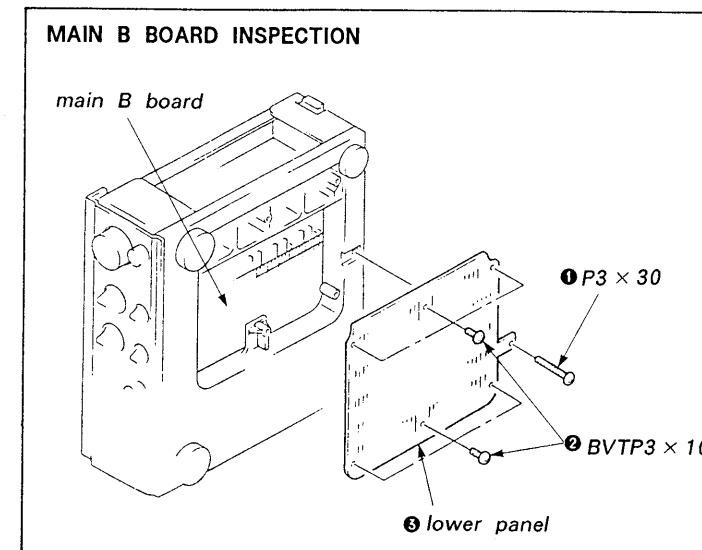
Program source	INPUT SELECTOR	ADAPTOR/DIRECT IN switch
For listening to record program**	PHONO	NORMAL
For listening to FM or AM (MW or LW) program	TUNER	NORMAL
For listening to CD	CD	NORMAL
For listening to taped program connected to TAPE 1 input jacks	TAPE 1	NORMAL
For listening to taped program connected to TAPE 2 input jacks	TAPE 2	NORMAL
For listening to taped program connected to TAPE 3 input jacks	TAPE 3	NORMAL
For listening to program source connected to DIRECT IN jacks	—	DIRECT IN
For listening to program source processed through adaptor	Desired program source	ADAPTOR

** Set the CARTRIDGE LOAD selector according to the cartridge being used.

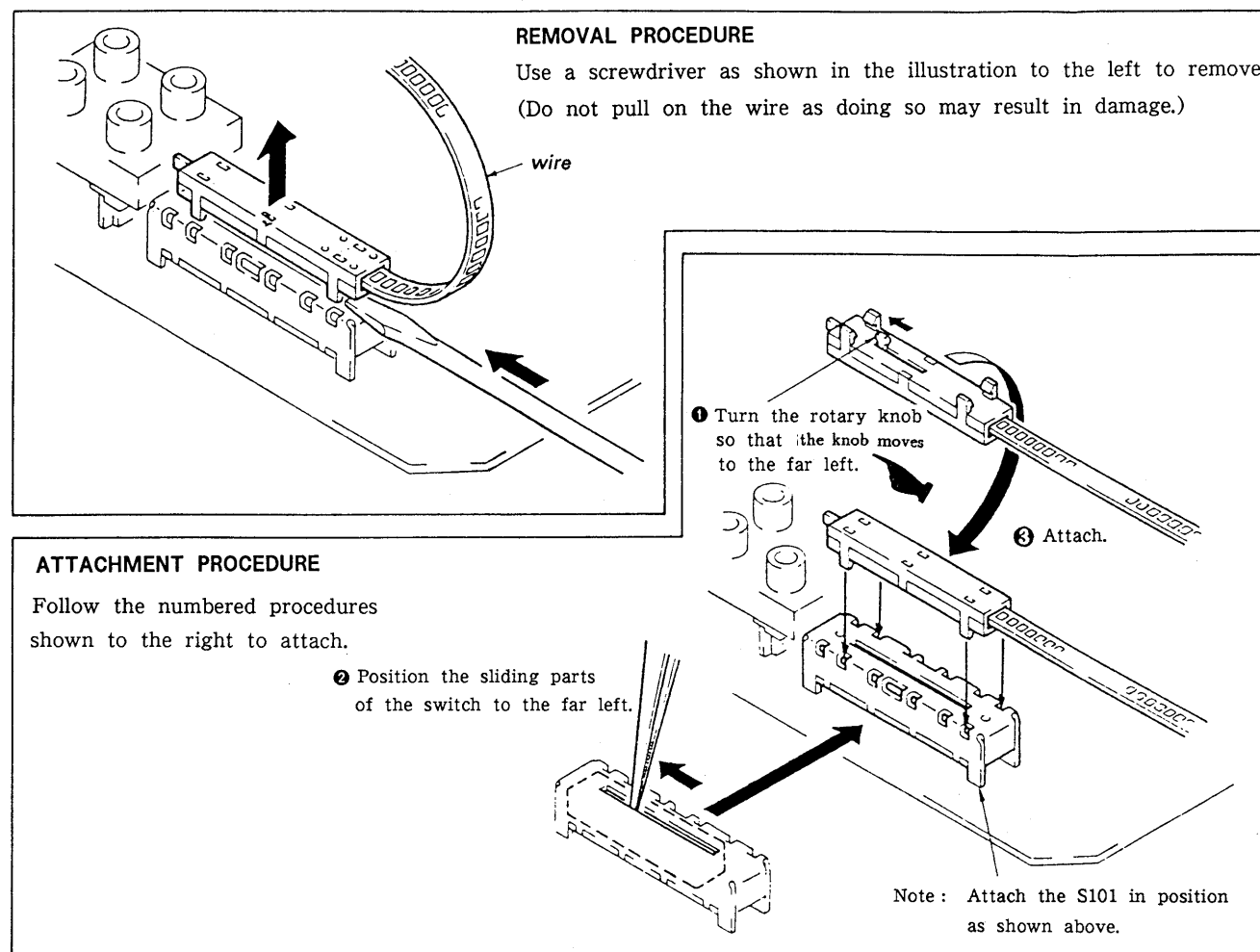
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SECTION 2 DISASSEMBLY

NOTE: Follow the disassembly procedure in the numerical order given.



SECTION 3 REMOVAL SWITCH BLOCK



SECTION 4 ELECTRICAL ADJUSTMENTS

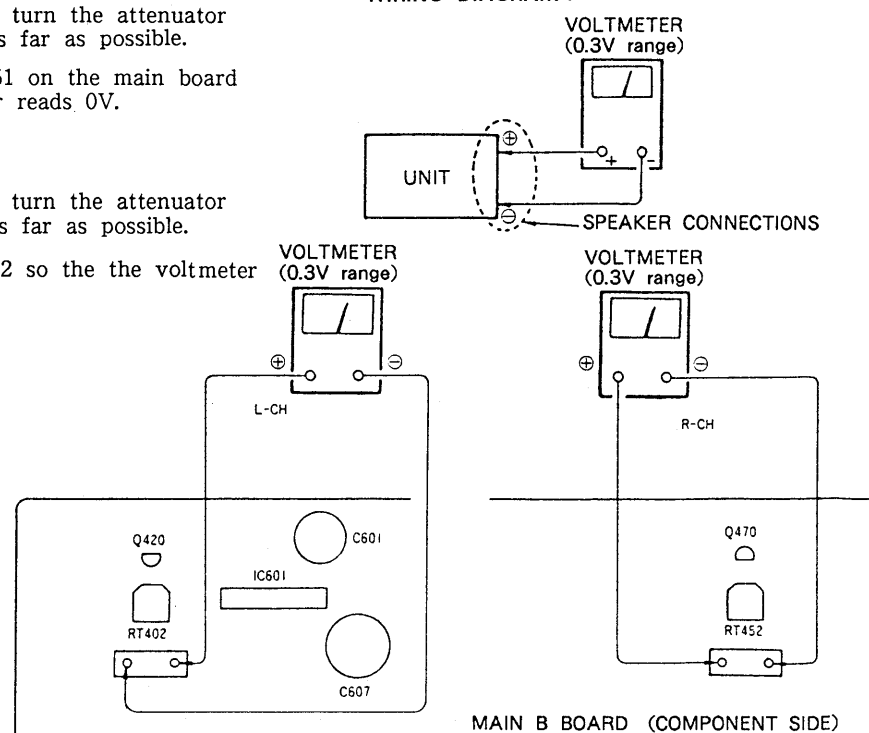
OFFSET ADJUSTMENT

1. With no signal input, turn the attenuator counter-clockwise as far as possible.
2. Adjust RT401 and 451 on the main board so that the voltmeter reads 0V.

BIAS ADJUSTMENT

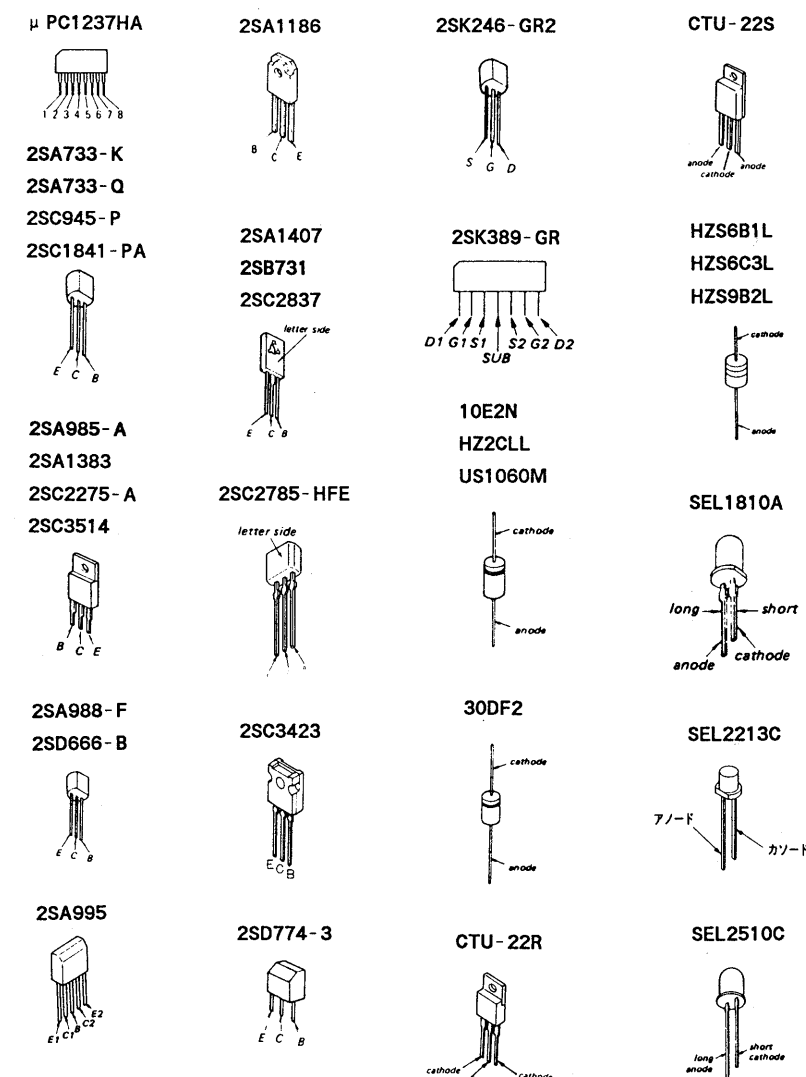
1. With no signal input, turn the attenuator counter-clockwise as far as possible.
2. Adjust RT402 and 452 so the the voltmeter reads 15mV.

WIRING DIAGRAM :

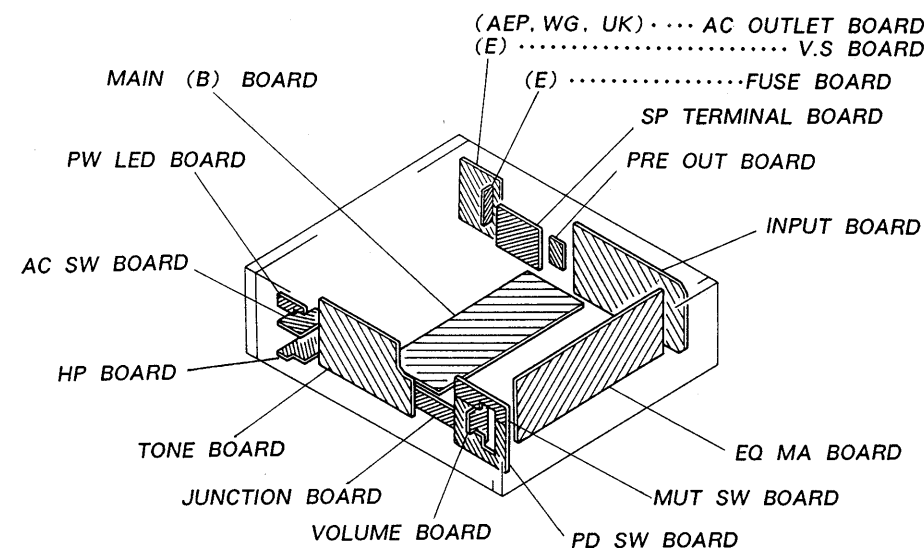


SECTION 5 DIAGRAMS

4-1. SEMICONDUCTOR LEAD LAYOUTS

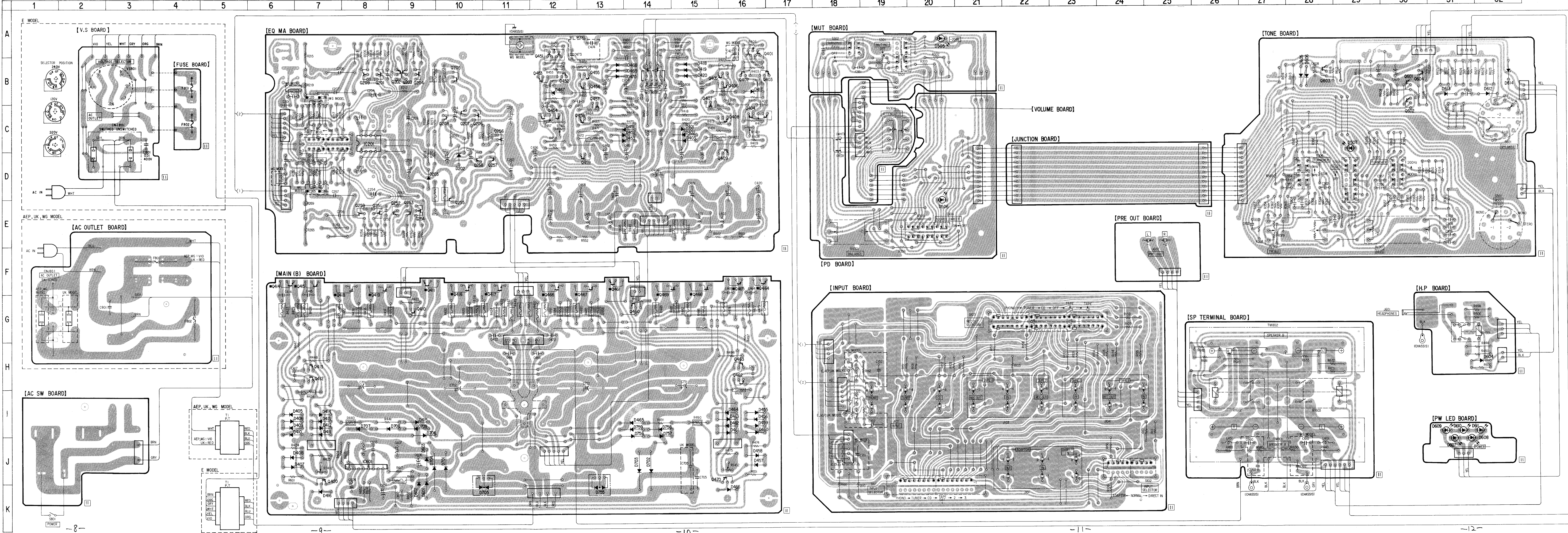


• CIRCUIT BOARDS LOCATION



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D202	D-10	D758	I-14
D203	D-9	D759	I-14
D401	C-15	IC201	C-8
D402	C-15	IC601	J-8
D403	C-15		
D405	I-6	Q201	B-8
D406	I-6	Q202	B-9
D407	J-6	Q203	B-9
D408	J-6	Q204	B-9
D409	I-6	Q205	B-10
D410	J-6	Q206	C-10
D411	J-7	Q207	C-10
D412	I-7	Q208	C-10
D413	I-7	Q209	B-8
D414	I-7	Q251	E-8
D415	I-9	Q252	E-9
D416	K-7	Q253	E-9
D417	B-16	Q254	E-9
D418	B-15	Q255	E-10
D419	B-15	Q256	C-11
D420	B-15	Q257	D-11
D451	C-13	Q258	D-10
D452	C-13	Q259	E-8
D453	C-13	Q401	A-16
D455	I-16	Q402	B-16
D456	I-16	Q403	B-16
D457	J-16	Q404	C-16
D458	J-16	Q405	B-15
D459	I-16	Q406	B-16
D460	I-16	Q407	B-15
D461	I-16	Q408	C-16
D462	I-16	Q409	D-16
D463	I-16	Q410	G-9
D464	I-16	Q411	F-9
D465	I-14	Q412	H-7
D466	K-16	Q413	H-7
D467	B-12	Q414	F-6
D468	B-13	Q415	F-7
D469	B-13	Q416	F-10
D470	B-13	Q417	F-11
D505	A-20	Q418	F-8
D506	E-20	Q419	F-8
D507	C-29	Q420	K-7
D601	K-9	Q451	A-12
D602	K-9	Q452	B-12
D603	J-9	Q453	B-12
D604	H-32	Q454	C-12
D605	B-28	Q455	B-13
D606	B-27	Q456	B-13
D607	J-31	Q457	C-13
D608	J-31	Q458	C-13
D609	I-31	Q459	D-13
D610	I-31	Q460	G-14
D611	I-31	Q461	F-13
D612	B-32	Q462	H-16
D613	B-32	Q463	H-16
D614	B-32	Q464	F-16
D701	J-10	Q465	F-12
D702	J-14	Q466	F-12
D703	J-14	Q467	F-13
D704	J-9	Q468	F-15
D705	K-10	Q469	F-14
D706	J-9	Q470	J-16
D707	I-8	Q601	B-30
D708	I-8	Q602	B-30
D709	I-9	Q603	B-28
D755	K-13	Q604	B-30
D756	I-14		
D757	I-14		



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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- WG : West Germany model

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SECTION 6

EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.

- Color Indication of Appearance Parts
Example:

(RED) ... KNOB, BALANCE (WHITE)

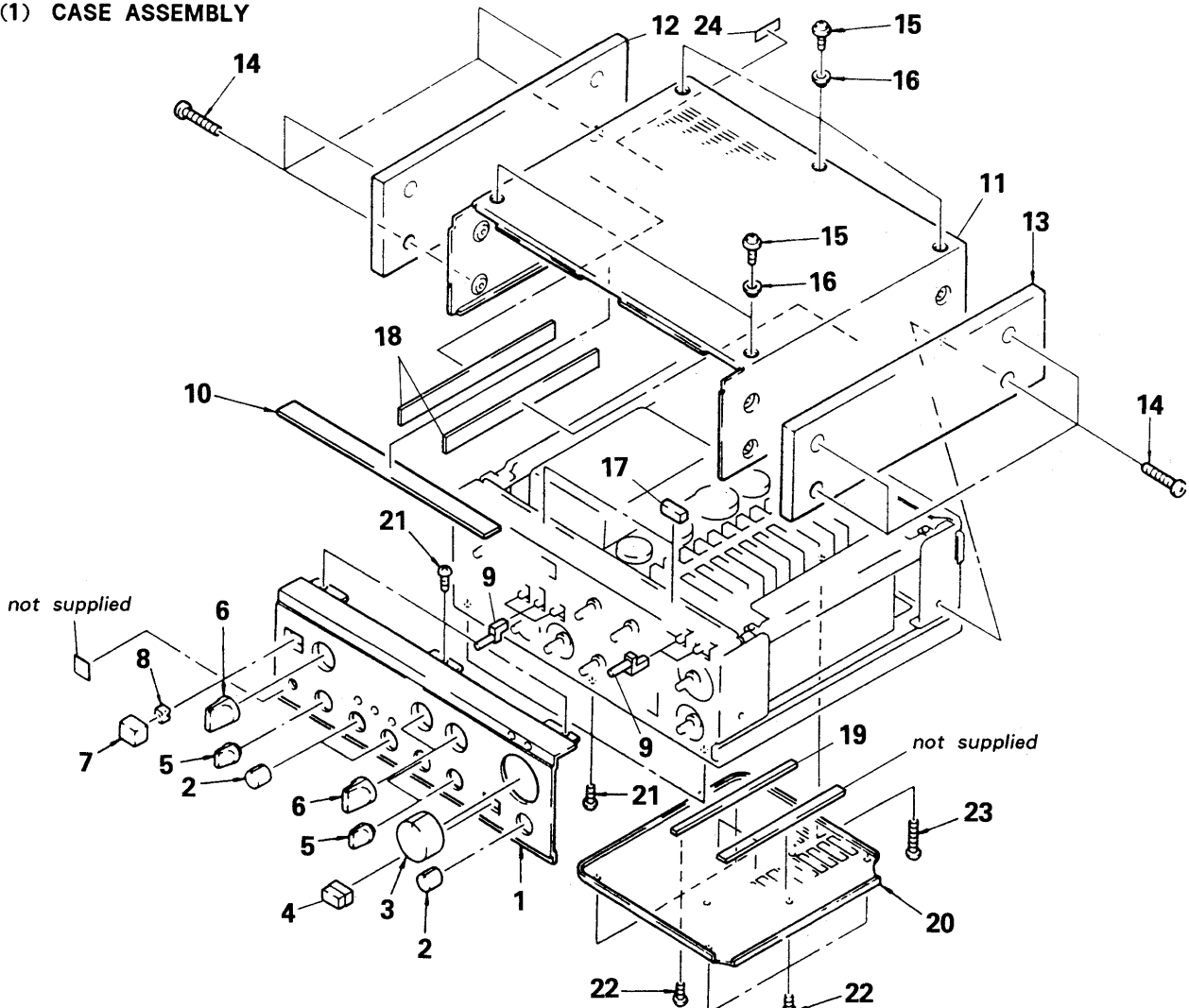
↑
Cabinet's Color

↑
Parts Color

The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

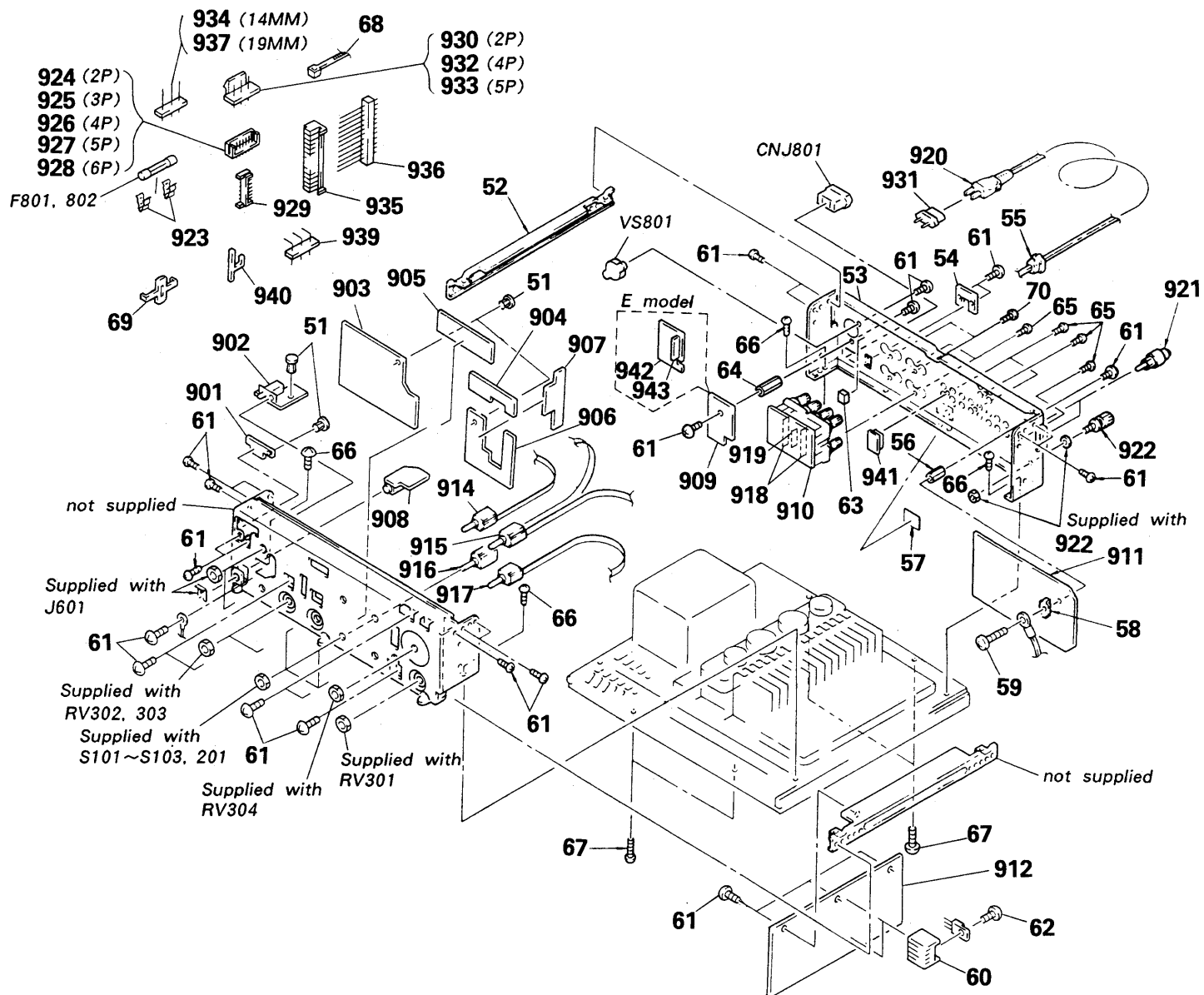
- WG : West Germany model

(1) CASE ASSEMBLY



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	A-4317-911-A A-4317-915-A	(AE,WG,UK)...PANEL ASSY, FRONT (E).....PANEL ASSY, FRONT		13	X-4885-940-1 X-4885-952-1	(AEP,E)...PLATE (RIGHT) ASSY, SIDE (WG).....PLATE (RIGHT) ASSY, SIDE	
2	4-923-871-01	KNOB (ROUND-22)(BASS/TREBLE/BALANCE)		14	4-847-802-00 4-885-979-21	(UK).....SCREW (AEP,WG,E)...SCREW (4X28)	
3	4-923-870-01	KNOB (ROUND-55)(ATTENUATOR)		15	4-886-821-01	SCREW, S TIGHT, +PTTWH 3X6	
4	4-917-460-21	KNOB (SOURCE DIRECT)		16	3-576-298-11	ESCUTCHEON	
5	4-923-869-01	KNOB (FLAT-22)		17	*4-908-872-01	CUSHION	
6	4-923-868-01	KNOB (FLAT-32)(INPUT SELECTOR)		18	*4-916-782-01	(UK)...DAMPER	
7	4-908-856-01	KNOB, SQUARE (POWER)		19	*4-916-782-11	DAMPER	
8	4-864-307-00	RING		20	*4-921-428-01	PLATE, BOTTOM	
9	4-923-879-01	BUTTON (DIA.4)		21	7-682-547-09	SCREW +B 3X6	
10	*4-916-782-01	DAMPER	(TURNOVER/TONE/MUTING/SUBSONIC)	22	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	
11	4-908-868-01	CASE		23	7-685-153-19	SCREW +P 3X30 TYPE2 SLIT	
12	X-4885-939-1 X-4885-951-1	(AEP,E)...PLATE (LEFT) ASSY, SIDE (WG).....PLATE (LEFT) ASSY, SIDE		24	*3-703-079-21	(UK)...LABEL, CAUTION (BACK)	

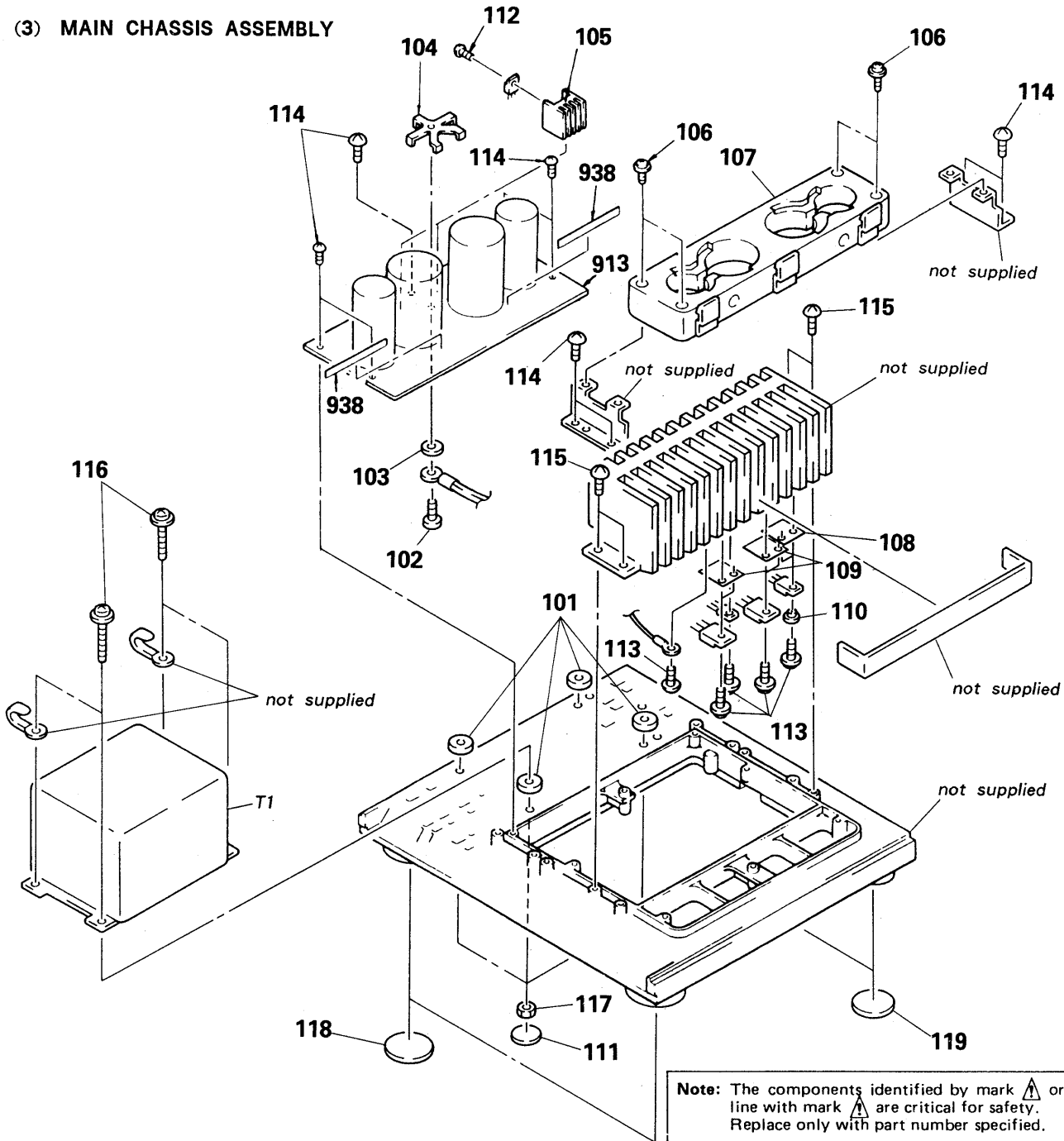
(2) FRONT CHASSIS, BACK PANEL ASSEMBLIES



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	4-812-134-00	RIVET NYLON, 3.5		914	1-571-337-11	SWITCH, ROTARY SLIDE	
52	*4-908-861-31	BRACKET, EQ		915	1-571-769-11	SWITCH, ROTARY SLIDE (REMOTE)	
53	*4-923-842-11	(AEP)...PANEL, BACK		916	1-571-770-11	SWITCH, ROTARY SLIDE (REMOTE)	
	*4-923-842-21	(WG)....PANEL, BACK		917	1-571-771-11	SWITCH, ROTARY SLIDE (REMOTE)	
	*4-923-842-31	(UK)....PANEL, BACK		918	*1-560-242-11	BUS BAR 3P	
	*4-923-842-41	(E).....PANEL, BACK		919	*1-560-242-61	BUS BAR 2P	
54	*4-923-873-01	BRACKET, CORD STOPPER		920	△.1-555-386-00	(E).....CORD, POWER	
55	△.2-352-626-11	(AEP,WG,UK)....BUSHING, CORD			△.1-559-271-11	(AEP,WG)...CORD, POWER	
	△.3-703-244-00	(E).....BUSHING (2104), CORD			△.1-559-272-11	(UK).....CORD, POWER	
56	*2-280-622-51	SUPPORT (M3), HEXAGON		921	1-506-113-00	SHORT PLUG	
57	*4-929-251-11	(AEP)....LABEL, MODEL NUMBER		922	1-535-691-11	TERMINAL	
	*4-929-252-01	(UK).....LABEL, MODEL NUMBER		923	1-533-183-11	HOLDER, FUSE	
	*4-929-253-01	(E).....LABEL, MODEL NUMBER		924	*1-564-505-11	PLUG, CONNECTOR 2P	
	*4-929-254-01	(WG).....LABEL, MODEL NUMBER		925	*1-564-506-11	PLUG, CONNECTOR 3P	
58	*4-835-639-00	PLATE, GROUND		926	*1-564-507-11	PLUG, CONNECTOR 4P	
59	7-682-149-15	SCREW, TR		927	*1-564-508-11	PLUG, CONNECTOR 5P	
60	*4-921-402-01	HEAT SINK		928	*1-564-509-11	PLUG, CONNECTOR 6P	
61	7-682-547-09	SCREW +B 3X6		929	*1-564-521-11	PLUG, CONNECTOR 6P	
62	7-682-548-09	SCREW +B 3X8		930	*1-564-321-00	PIN, CONNECTOR 2P	
63	*4-916-707-01	(E).....CUSHION		931	△.1-526-565-00	(E).....AC PLUG ADAPTOR	
64	*2-280-622-51	(AEP,WG)...SUPPORT (M3), HEXAGON		932	*1-564-241-00	PIN, CONNECTOR 4P	
	*2-280-622-61	(UK).....SUPPORT (M3X20), HEXAGON		933	*1-564-242-00	PIN, CONNECTOR 5P	
65	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S		934	*1-535-136-00	(E)...BASE POST 14MM (10MM PITCH) 3P	
66	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT		935	*1-561-652-00	SOCKET, CONNECTOR 12P	
67	7-685-650-79	SCREW +BVTP 3X16 TYPE2 SLIT		936	*1-560-533-00	PIN, CONNECTOR 12P	
68	3-655-653-21	BAND (TAITON), BINDING		937	*1-535-140-00	(AEP,WG,UK)...BASE POST 19MM (10MM PITCH) 3P	
69	*4-923-814-01	(AEP,WG,UK)...PLATE, CONNECTION		938	*1-560-242-31	BUS BAR 5P	
70	3-704-242-11	(WG).....SCREW, TERMINAL, +PVTP CLAW		939	*1-560-595-21	(AEP,WG,UK)...TERMINAL (WITH BASE)	
	7-685-646-79	(AEP,UK,E)...SCREW +BVTP 3X8 TYPE2 N-2		940	1-535-476-11	(AEP,WG,UK)...TERMINAL	
901	*1-628-959-11	PC BOARD, PW LED		941	*1-631-317-11	PC BOARD, PRE OUT	
902	*1-628-963-11	PC BOARD, AC SW		942	*1-619-928-11	PC BOARD, V.S	
903	*A-4410-864-A	MOUNTED PCB, TONE		943	*1-619-929-11	PC BOARD, FUSE (E)	
904	*1-628-954-11	PC BOARD, MUT		CNJ801△.1-526-751-00	(UK).....OUTLET, AC		
905	*1-628-957-11	PC BOARD, JUNCTION		CNJ801△.1-526-794-11	(AEP,WG)...OUTLET, AC		
906	*1-628-955-11	PC BOARD, PD		CNJ801△.1-526-883-00	(E).....OUTLET, AC		
907	*1-628-953-11	PC BOARD, VOLUME		F801 △.1-532-237-00	FUSE, TIME-LAG (T3.15A)		
908	*1-628-958-11	PC BOARD, HP		F802 △.1-532-237-00	(E).....FUSE, TIME-LAG (T3.15A)		
909	*1-626-600-11	(AEP,WG,UK)...PC BOARD, AC OUTLET		F802 △.1-532-286-00	(AEP,WG,UK)...FUSE, TIME-LAG (T2.5A)		
910	*1-628-956-11	PC BOARD, SP TERMINAL		VS801△.1-526-576-51	(E).....SELECTOR, POWER VOLTAGE (VOLTAGE SELECTOR)		
911	*1-628-951-11	PC BOARD, INPUT					
912	*A-4333-136-A	(WG).....MOUNTED PCB, EQ MA					
	*A-4333-176-A	(AEP,E)...MOUNTED PCB, EQ MA					
	*A-4333-669-A	(UK).....MOUNTED PCB, EQ MA					

Note: The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

(3) MAIN CHASSIS ASSEMBLY



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101	4-923-848-01	WASHER (B.S)		114	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	
102	7-682-149-15	SCREW, TR		115	7-685-648-79	SCREW +BVTP 3X12 TYPE2 SLIT	
103	4-309-378-00	WASHER		116	7-682-669-09	SCREW +PSW 4X35	
104	*4-916-791-01	PLATE, GROUND, 5P		117	7-684-024-04	N 4, TYPE 2	
105	*4-921-402-01	HEAT SINK		118	*4-908-888-01	(UK).....FOOT, TUNING	
106	4-921-437-01	SCREW (M3X20), TAPPING			*4-923-850-01	(AEP,WG,E)...FOOT (DIA. 46)	
107	*X-4885-928-3	HOLDER (A) ASSY		119	*4-908-887-01	(UK).....FOOT, TUNING	
108	4-901-949-01	SHEET, INSULATING			*4-923-849-01	(AEP,WG,E)...FOOT (DIA. 38)	
109	4-908-847-01	SHEET, INSULATING		913	*A-4333-137-A	(WG).....MOUNTED PCB, MAIN (B)	
110	2-371-561-00	BUSHING (P), INSULATING			*A-4333-668-A	(AEP,E)...MOUNTED PCB, MAIN (B)	
111	*4-908-892-01	SPACER			*A-4333-670-A	(UK).....MOUNTED PCB, MAIN (B)	
112	7-682-548-09	SCREW +B 3X8		T1	Δ.1-449-652-11	(AEP)...TRANSFORMER, POWER	
113	7-682-549-01	SCREW +B 3X10		T1	Δ.1-449-653-11	(WG)...TRANSFORMER, POWER	
				T1	Δ.1-449-654-11	(E)....TRANSFORMER, POWER	
				T1	Δ.1-449-655-11	(UK)....TRANSFORMER, POWER	

SECTION 7

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:
UA....: μ A...., UPA....: μ PA....,
UPC....: μ PC, UPD....: μ PD...

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

- WG: West Germany model

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
901	*1-628-959-11	PC BOARD, PW LED	939	*1-560-595-21	(AEP,WG,UK)...TERMINAL (WITH BASE)
902	*1-628-963-11	PC BOARD, AC SW	940	1-535-476-11	(AEP,WG,UK)...TERMINAL
903	*A-4410-864-A	MOUNTED PCB, TONE	941	*1-631-317-11	PC BOARD, PRE OUT
904	*1-628-954-11	PC BOARD, MUT	942	*1-619-928-11	PC BOARD, V.S
905	*1-628-957-11	PC BOARD, JUNCTION	943	*1-619-929-11	PC BOARD, FUSE (E)
906	*1-628-955-11	PC BOARD, PD			
907	*1-628-953-11	PC BOARD, VOLUME	C101	1-162-282-31	(WG)...CERAMIC 100PF 5% 50V
908	*1-628-958-11	PC BOARD, HP	C102	1-162-282-31	(WG)...CERAMIC 100PF 5% 50V
909	*1-626-600-11	(AEP,WG,UK)...PC BOARD, AC OUTLET	C151	1-162-282-31	(WG)...CERAMIC 100PF 5% 50V
			C152	1-162-282-31	(WG)...CERAMIC 100PF 5% 50V
910	*1-628-956-11	PC BOARD, SP TERMINAL	C201	1-107-163-00	(WG).....MICA 47PF 5% 500V
911	*1-628-951-11	PC BOARD, INPUT	C201	1-130-469-00	(AEP,UK,E)...MYLAR 680PF 5% 50V
912	*A-4333-136-A	(WG).....MOUNTED PCB, EQ MA	C202	1-136-250-11	FILM 0.001MF 5% 100V
	*A-4333-176-A	(AEP,E)...MOUNTED PCB, EQ MA	C203	1-124-748-11	ELECT 22MF 20% 100V
	*A-4333-669-A	(UK).....MOUNTED PCB, EQ MA	C204	1-124-700-11	ELECT 330MF 20% 25V
913	*A-4333-137-A	(WG).....MOUNTED PCB, MAIN (B)	C205	1-130-469-00	(AEP,UK,E)...MYLAR 680PF 5% 50V
	*A-4333-668-A	(AEP,E)...MOUNTED PCB, MAIN (B)	C206	1-130-206-00	FILM 0.016MF 2% 630V
	*A-4333-670-A	(UK).....MOUNTED PCB, MAIN (B)	C207	1-129-723-00	FILM 0.056MF 2% 630V
914	1-571-337-11	SWITCH, ROTARY SLIDE	C209	1-124-557-11	ELECT 1000MF 20% 25V
915	1-571-769-11	SWITCH, ROTARY SLIDE (REMOTE)	C211	1-123-333-00	ELECT 100MF 20% 25V
916	1-571-770-11	SWITCH, ROTARY SLIDE (REMOTE)	C212	1-123-377-00	ELECT 470MF 20% 63V
917	1-571-771-11	SWITCH, ROTARY SLIDE (REMOTE)	C214	1-123-381-00	ELECT 2.2MF 20% 63V
918	*1-560-242-11	BUS BAR 3P	C215	1-130-471-00	(WG).....MYLAR 0.001MF 5% 50V
919	*1-560-242-61	BUS BAR 2P	C216	1-130-471-00	(WG).....MYLAR 0.001MF 5% 50V
920	Δ 1-555-386-00	(E).....CORD, POWER	C251	1-107-163-00	(WG).....MICA 47PF 5% 500V
	Δ 1-559-271-11	(AEP,WG)...CORD, POWER	C251	1-130-469-00	(AEP,UK,E)...MYLAR 680PF 5% 50V
	Δ 1-559-272-11	(UK).....CORD, POWER			
921	1-506-113-00	SHORT PLUG	C252	1-136-250-11	FILM 0.001MF 5% 100V
922	1-535-691-11	TERMINAL	C253	1-124-748-11	ELECT 22MF 20% 100V
923	1-533-183-11	HOLDER, FUSE	C254	1-124-700-11	ELECT 330MF 20% 25V
924	*1-564-505-11	PLUG, CONNECTOR 2P	C255	1-130-469-00	(AEP,UK,E)...MYLAR 680PF 5% 50V
925	*1-564-506-11	PLUG, CONNECTOR 3P	C256	1-130-206-00	FILM 0.016MF 2% 630V
926	*1-564-507-11	PLUG, CONNECTOR 4P	C257	1-129-723-00	FILM 0.056MF 2% 630V
927	*1-564-508-11	PLUG, CONNECTOR 5P	C259	1-124-557-11	ELECT 1000MF 20% 25V
928	*1-564-509-11	PLUG, CONNECTOR 6P	C262	1-123-377-00	ELECT 470MF 20% 63V
929	*1-564-521-11	PLUG, CONNECTOR 6P	C264	1-123-381-00	ELECT 2.2MF 20% 63V
930	*1-564-321-00	PIN, CONNECTOR 2P	C265	1-130-471-00	(WG).....MYLAR 0.001MF 5% 50V
931	Δ 1-526-565-00	(E).....AC PLUG ADAPTOR	C266	1-130-471-00	(WG).....MYLAR 0.001MF 5% 50V
932	*1-564-241-00	PIN, CONNECTOR 4P	C301	1-136-167-00	FILM 0.15MF 5% 50V
933	*1-564-242-00	PIN, CONNECTOR 5P	C302	1-130-470-00	MYLAR 820PF 5% 50V
934	*1-535-136-00	(E)...BASE POST 14MM (10MM PITCH) 3P	C303	1-130-470-00	MYLAR 820PF 5% 50V
935	*1-561-652-00	SOCKET, CONNECTOR 12P	C304	1-130-478-00	MYLAR 0.0039MF 5% 50V
936	*1-560-533-00	PIN, CONNECTOR 12P	C305	1-130-478-00	MYLAR 0.0039MF 5% 50V
937	*1-535-140-00	(AEP,WG,UK)...BASE POST 19MM (10MM PITCH) 3P	C306	1-130-481-00	MYLAR 0.0068MF 5% 50V
			C307	1-130-481-00	MYLAR 0.0068MF 5% 50V
938	*1-560-242-31	BUS BAR 5P	C308	1-136-161-00	FILM 0.047MF 5% 50V
			C309	1-136-161-00	FILM 0.047MF 5% 50V

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Ref.No.	Part No.	Description			
C351	1-136-167-00	FILM	0.15MF	5%	50V
C352	1-130-470-00	MYLAR	820PF	5%	50V
C353	1-130-470-00	MYLAR	820PF	5%	50V
C354	1-130-478-00	MYLAR	0.0039MF	5%	50V
C355	1-130-478-00	MYLAR	0.0039MF	5%	50V
C356	1-130-481-00	MYLAR	0.0068MF	5%	50V
C357	1-130-481-00	MYLAR	0.0068MF	5%	50V
C358	1-136-161-00	FILM	0.047MF	5%	50V
C359	1-136-161-00	FILM	0.047MF	5%	50V
C401	1-107-202-00	MICA	10PF	0.5PF	500V
C402	1-109-621-00	MICA	220PF	5%	500V
C403	1-123-380-00	ELECT	1MF	20%	100V
C404	1-107-048-00	(WG).....MICA	7PF	0.5PF	500V
C404	1-107-276-11	(AEP,UK,E)...MICA	3PF	0.5PF	500V
C405	1-124-918-11	ELECT	47MF	20%	63V
C406	1-124-918-11	ELECT	47MF	20%	63V
C408	1-124-748-11	ELECT	22MF	20%	100V
C409	1-130-317-00	FILM	0.068MF	5%	100V
C410	1-107-202-00	MICA	10PF	0.5PF	500V
C411	1-124-130-00	ELECT	100MF	20%	63V
C412	1-124-130-00	ELECT	100MF	20%	63V
C414	1-107-163-00	(AEP,UK,E)...MICA	47PF	5%	500V
C414	1-107-169-00	(WG).....MICA	100PF	5%	500V
C415	1-107-163-00	(AEP,UK,E)...MICA	47PF	5%	500V
C415	1-107-169-00	(WG).....MICA	100PF	5%	500V
C416	1-136-161-00	FILM	0.047MF	5%	50V
C417	1-136-161-00	FILM	0.047MF	5%	50V
C418	1-123-377-00	ELECT	470MF	20%	63V
C419	1-123-377-00	ELECT	470MF	20%	63V
C420	1-123-376-00	ELECT	330MF	20%	63V
C421	1-123-376-00	ELECT	330MF	20%	63V
C422	1-136-161-00	FILM	0.047MF	5%	50V
C423	1-107-163-00	(AEP,UK,E)...MICA	47PF	5%	500V
C451	1-107-202-00	MICA	10PF	0.5PF	500V
C452	1-109-621-00	MICA	220PF	5%	500V
C453	1-123-380-00	ELECT	1MF	20%	100V
C454	1-107-048-00	(WG).....MICA	7PF	0.5PF	500V
C454	1-107-276-11	(AEP,UK,E)...MICA	3PF	0.5PF	500V
C455	1-124-918-11	ELECT	47MF	20%	63V
C456	1-124-918-11	ELECT	47MF	20%	63V
C458	1-124-748-11	ELECT	22MF	20%	100V
C459	1-130-317-00	FILM	0.068MF	5%	100V
C460	1-107-202-00	MICA	10PF	0.5PF	500V
C461	1-124-130-00	ELECT	100MF	20%	63V
C462	1-124-130-00	ELECT	100MF	20%	63V
C464	1-107-163-00	MICA	47PF	5%	500V
C464	1-107-169-00	(WG).....MICA	100PF	5%	500V
C465	1-107-169-00	(WG).....MICA	100PF	5%	500V
C465	1-107-163-00	MICA	47PF	5%	500V
C466	1-136-161-00	FILM	0.047MF	5%	50V
C467	1-136-161-00	FILM	0.047MF	5%	50V
C468	1-123-377-00	ELECT	470MF	20%	63V
C469	1-123-377-00	ELECT	470MF	20%	63V
C470	1-123-376-00	ELECT	330MF	20%	63V
C471	1-123-376-00	ELECT	330MF	20%	63V

Ref.No.	Part No.	Description			
C472	1-136-161-00	FILM	0.047MF	5%	50V
C473	1-107-169-00	(WG)...MICA	100PF	5%	500V
C474	1-130-469-00	(WG)...MYLAR	680PF	5%	50V
C601	1-123-334-00	ELECT	220MF	20%	25V
C602	1-130-471-00	MYLAR	0.001MF	5%	50V
C603	1-136-157-00	FILM	0.022MF	5%	50V
C604	1-123-332-00	ELECT	47MF	20%	25V
C605	1-124-918-11	ELECT	47MF	20%	63V
C606	1-123-380-00	ELECT	1MF	20%	100V
C607	1-123-376-00	ELECT	330MF	20%	63V
C608	1-123-369-00	ELECT	4.7MF	20%	50V
C609	1-106-343-00	MYLAR	0.001MF	10%	100V
C610A	1-123-380-00	ELECT	1MF	20%	63V
C610	1-130-480-00	(WG)...MYLAR	0.0056MF	5%	50V
C611	1-123-356-00	ELECT	10MF	20%	25V
C612	1-106-343-00	(WG)...MYLAR	0.001MF	10%	100V
C660	1-130-480-00	(WG)...MYLAR	0.0056MF	5%	50V
C662	1-106-343-00	(WG)...MYLAR	0.001MF	10%	100V
C701	1-125-604-11	CAP, ELECT	4700MF		63V
C702	1-125-381-00	CAP, ELECT	12000MF		63V
C705	1-136-601-11	(AEP,WG,E)...FILM	0.01MF	10%	630V
C705	1-136-905-11	(UK).....FILM	6.8MF	10%	160V
C751	1-125-604-11	CAP, ELECT	4700MF		63V
C752	1-125-381-00	CAP, ELECT	12000MF		63V
C801	1-161-741-00	CERAMIC	0.001MF	10%	400V
CNJ801A	1-526-751-00	(UK).....OUTLET, AC			
CNJ801A	1-526-794-11	(AEP,WG)...OUTLET, AC			
CNJ801A	1-526-883-00	(E).....OUTLET, AC			
D202	8-719-933-36	ZENER DIODE HZS6B1L			
D203	8-719-200-77	DIODE 10E2N			
D401	8-719-933-41	ZENER DIODE HZS6C3L			
D402	8-719-000-26	DIODE US1060M			
D403	8-719-000-26	DIODE US1060M			
D405	8-719-000-26	DIODE US1060M			
D406	8-719-000-26	DIODE US1060M			
D407	8-719-000-26	DIODE US1060M			
D408	8-719-000-26	DIODE US1060M			
D409	8-719-000-26	DIODE US1060M			
D410	8-719-000-26	DIODE US1060M			
D411	8-719-000-26	DIODE US1060M			
D412	8-719-000-26	DIODE US1060M			
D413	8-719-000-26	DIODE US1060M			
D414	8-719-000-26	DIODE US1060M			
D415	8-719-000-26	DIODE US1060M			
D416	8-719-000-26	DIODE US1060M			
D417	8-719-921-13	ZENER DIODE HZ2CCL			
D418	8-719-000-26	DIODE US1060M			
D419	8-719-000-26	DIODE US1060M			
D420	8-719-000-26	DIODE US1060M			
D451	8-719-933-41	ZENER DIODE HZS6C3L			
D452	8-719-000-26	DIODE US1060M			
D453	8-719-000-26	DIODE US1060M			
D455	8-719-000-26	DIODE US1060M			
D456	8-719-000-26	DIODE US1060M			
D457	8-719-000-26	DIODE US1060M			

Note: The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description
D458	8-719-000-26	DIODE US1060M
D459	8-719-000-26	DIODE US1060M
D460	8-719-000-26	DIODE US1060M
D461	8-719-000-26	DIODE US1060M
D462	8-719-000-26	DIODE US1060M
D463	8-719-000-26	DIODE US1060M
D464	8-719-000-26	DIODE US1060M
D465	8-719-000-26	DIODE US1060M
D466	8-719-000-26	DIODE US1060M
D467	8-719-921-13	ZENER DIODE HZ2CCL
D468	8-719-000-26	DIODE US1060M
D469	8-719-000-26	DIODE US1060M
D470	8-719-000-26	DIODE US1060M
D505	8-719-302-07	LED SEL1810A (MUTE)
D506	8-719-302-07	LED SEL1810A (SOURCE DIRECT)
D507	8-719-302-07	LED SEL1810A (TONE)
D601	8-719-200-77	DIODE 10E2N
D602	8-719-200-77	DIODE 10E2N
D603	8-719-200-77	DIODE 10E2N
D604	8-719-000-26	DIODE US1060M
D605	8-719-000-26	DIODE US1060M
D606	8-719-000-26	DIODE US1060M
D607	8-719-300-82	LED SEL2213C (POWER (RED))
D608	8-719-300-82	LED SEL2213C (POWER (RED))
D609	8-719-303-00	LED SEL2510C (POWER (GREEN))
D610	8-719-303-00	LED SEL2510C (POWER (GREEN))
D611	8-719-303-00	LED SEL2510C (POWER (GREEN))
D612	8-719-000-26	DIODE US1060M
D613	8-719-000-26	DIODE US1060M
D614	8-719-933-57	ZENER DIODE HZS9B2L
D701	8-719-230-02	DIODE 30DF2
D702	8-719-230-02	DIODE 30DF2
D703	8-719-230-02	DIODE 30DF2
D704	8-719-230-02	DIODE 30DF2
D705	8-719-300-27	DIODE CTU-22S
D706	8-719-200-77	DIODE 10E2N
D707	8-719-200-77	DIODE 10E2N
D708	8-719-200-77	DIODE 10E2N
D709	8-719-200-77	DIODE 10E2N
D755	8-719-300-25	DIODE CTU-22R
D756	8-719-200-77	DIODE 10E2N
D757	8-719-200-77	DIODE 10E2N
D758	8-719-200-77	DIODE 10E2N
D759	8-719-200-77	DIODE 10E2N
F801	△.1-532-237-00	FUSE, TIME-LAG (T3.15A)
F802	△.1-532-237-00	(E).....FUSE, TIME-LAG (T3.15A)
F802	△.1-532-286-00	(AEP,WG,UK)...FUSE, TIME-LAG (T2.5A)
IC201	8-759-602-01	(WG).....IC M5220P
IC201	8-759-982-03	(AEP,UK,E)...IC RC5532DD
IC601	8-759-111-68	IC UPC1237HA
J101	1-507-831-00	JACK, PIN 6P
J102	1-507-831-31	JACK, PIN 6P (INPUT)
J103	1-507-831-00	JACK, PIN 6P
J104	1-507-831-00	JACK, PIN 6P
J601	1-507-863-51	JACK, LARGE TYPE (HEADPHONES)
J602	1-507-852-00	JACK, PIN 2P (PRE OUT)

Ref.No.	Part No.	Description
L101	1-413-101-00	(WG)...COIL, AIR-CORE
L102	1-413-101-00	(WG)...COIL, AIR-CORE
L151	1-413-101-00	(WG)...COIL, AIR-CORE
L152	1-413-101-00	(WG)...COIL, AIR-CORE
L401	*1-422-009-13	COIL, AIR-CORE
L402	1-422-261-11	COIL, AIR-CORE
L403	1-422-261-11	COIL, AIR-CORE
L451	*1-422-009-13	COIL, AIR-CORE
L452	1-422-261-11	COIL, AIR-CORE
L453	1-422-261-11	COIL, AIR-CORE
Q201	8-729-217-04	TRANSISTOR 2SK170-V
Q202	8-729-366-61	TRANSISTOR 2SD666-B
Q203	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q204	8-729-201-56	TRANSISTOR 2SK246GR2
Q205	8-729-127-53	TRANSISTOR 2SC2275-P
Q206	8-729-201-56	TRANSISTOR 2SK246GR2
Q207	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q208	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q209	8-729-217-04	TRANSISTOR 2SK170-V
Q251	8-729-217-04	TRANSISTOR 2SK170-V
Q252	8-729-366-61	TRANSISTOR 2SD666-B
Q253	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q254	8-729-201-56	TRANSISTOR 2SK246GR2
Q255	8-729-190-53	TRANSISTOR 2SA985A-P
Q256	8-729-201-56	TRANSISTOR 2SK246GR2
Q257	8-729-173-38	TRANSISTOR 2SA733-K
Q258	8-729-173-38	TRANSISTOR 2SA733-K
Q259	8-729-217-04	TRANSISTOR 2SK170-V
Q401	8-729-203-21	TRANSISTOR 2SK389-GR
Q402	8-729-108-05	TRANSISTOR 2SA1841-PA
Q403	8-729-108-05	TRANSISTOR 2SA1841-PA
Q404	8-729-699-51	TRANSISTOR 2SA995-F
Q405	8-729-802-71	TRANSISTOR 2SA1407-D
Q406	8-729-104-91	TRANSISTOR 2SA1383
Q407	8-729-201-56	TRANSISTOR 2SK246GR2
Q408	8-729-104-18	TRANSISTOR 2SC3514-Q
Q409	8-729-104-18	TRANSISTOR 2SC3514-Q
Q410	8-729-173-13	TRANSISTOR 2SB731-F
Q411	8-729-203-45	TRANSISTOR 2SC3423-O
Q412	8-729-104-18	TRANSISTOR 2SC3514-Q
Q413	8-729-104-91	TRANSISTOR 2SA1383-Q
Q414	8-729-107-53	TRANSISTOR 2SC2275A-P
Q415	8-729-190-53	TRANSISTOR 2SA985A-P
Q416	8-729-383-73	TRANSISTOR 2SC2837-Y
Q417	8-729-383-73	TRANSISTOR 2SC2837-Y
Q418	8-729-318-63	TRANSISTOR 2SA1186-Y
Q419	8-729-318-63	TRANSISTOR 2SA1186-Y
Q420	8-729-108-14	TRANSISTOR 2SA988-F
Q451	8-729-203-21	TRANSISTOR 2SK389-GR
Q452	8-729-108-05	TRANSISTOR 2SA1841-PA
Q453	8-729-108-05	TRANSISTOR 2SA1841-PA
Q454	8-729-699-51	TRANSISTOR 2SA995-F
Q455	8-729-802-71	TRANSISTOR 2SA1407-D
Q456	8-729-104-91	TRANSISTOR 2SA1383
Q457	8-729-201-56	TRANSISTOR 2SK246GR2
Q458	8-729-104-18	TRANSISTOR 2SC3514-Q
Q459	8-729-104-18	TRANSISTOR 2SC3514-Q
Q460	8-729-173-13	TRANSISTOR 2SB731-F

Note: The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description				
Q461	8-729-203-45	TRANSISTOR 2SC3423-Q				
Q462	8-729-104-18	TRANSISTOR 2SC3514-Q				
Q463	8-729-104-91	TRANSISTOR 2SA1383-Q				
Q464	8-729-107-53	TRANSISTOR 2SC2275A-P				
Q465	8-729-190-53	TRANSISTOR 2SA985A-P				
Q466	8-729-383-73	TRANSISTOR 2SC2837-Y				
Q467	8-729-383-73	TRANSISTOR 2SC2837-Y				
Q468	8-729-318-63	TRANSISTOR 2SA1186-Y				
Q469	8-729-318-63	TRANSISTOR 2SA1186-Y				
Q470	8-729-108-14	TRANSISTOR 2SA988-F				
Q601	8-729-173-36	TRANSISTOR 2SA733-Q				
Q602	8-729-173-36	TRANSISTOR 2SA733-Q				
Q603	8-729-177-42	TRANSISTOR 2SD774-3				
Q604	8-729-194-57	TRANSISTOR 2SC945-P				
R101	1-246-545-00	CARBON	1M	5%	1/4W	
R102	1-246-545-00	CARBON	1M	5%	1/4W	
R103	1-246-545-00	CARBON	1M	5%	1/4W	
R104	1-246-545-00	CARBON	1M	5%	1/4W	
R105	1-246-545-00	CARBON	1M	5%	1/4W	
R106	1-246-545-00	CARBON	1M	5%	1/4W	
R107	1-247-713-11	CARBON	1K	5%	1/4W	
R108	1-247-713-11	CARBON	1K	5%	1/4W	
R109	1-247-713-11	CARBON	1K	5%	1/4W	
R110	1-247-713-11	(WG).....CARBON	1K	5%	1/4W	
R110	1-247-739-11	(AEP,UK,E)...CARBON	100	5%	1/2W	
R111	1-246-545-00	CARBON	1M	5%	1/4W	
R112	1-247-713-11	(WG).....CARBON	1K	5%	1/4W	
R113	1-247-713-11	(WG).....CARBON	1K	5%	1/4W	
R151	1-246-545-00	CARBON	1M	5%	1/4W	
R152	1-246-545-00	CARBON	1M	5%	1/4W	
R153	1-246-545-00	CARBON	1M	5%	1/4W	
R154	1-246-545-00	CARBON	1M	5%	1/4W	
R155	1-246-545-00	CARBON	1M	5%	1/4W	
R156	1-246-545-00	CARBON	1M	5%	1/4W	
R157	1-247-713-11	CARBON	1K	5%	1/4W	
R158	1-247-713-11	CARBON	1K	5%	1/4W	
R159	1-247-713-11	CARBON	1K	5%	1/4W	
R160	1-247-713-11	(WG).....CARBON	1K	5%	1/4W	
R160	1-247-739-11	(AEP,UK,E)...CARBON	100	5%	1/2W	
R161	1-246-545-00	CARBON	1M	5%	1/4W	
R162	1-247-713-11	(WG).....CARBON	1K	5%	1/4W	
R163	1-247-713-11	(WG).....CARBON	1K	5%	1/4W	
R201	1-249-465-11	CARBON	47K	5%	1/4W	
R202	1-247-706-11	CARBON	330	5%	1/4W	
R203	1-247-700-11	(WG).....CARBON	100	5%	1/4W	
R203	1-247-713-11	(AEP,UK,E)...CARBON	1K	5%	1/4W	
R204	1-247-516-11	(WG).....CARBON	33	5%	1/4W	
R204	1-247-700-11	(AEP,UK,E)...CARBON	100	5%	1/4W	
R205	1-247-128-00	CARBON	750	5%	1/4W	
R206	1-247-128-00	CARBON	750	5%	1/4W	
R207	1-247-700-11	CARBON	100	5%	1/4W	
R208	1-247-708-11	CARBON	470	5%	1/4W	
R209	1-247-695-11	CARBON	39	5%	1/4W	
R210	1-247-704-11	CARBON	220	5%	1/4W	

Ref.No.	Part No.	Description				
R211	1-247-721-11	CARBON	4.7K	5%	1/4W	
R212	1-214-937-00	CARBON	1M	5%	1/2W	
R213	1-249-844-11	CARBON	56K	1%	1/2W	
R215	1-249-818-11	CARBON	4.7K	1%	1/2W	
R217	1-259-501-11	CARBON	6.8	5%	1/2W	
R218	1-247-739-11	CARBON	100	5%	1/2W	
R219	1-247-704-11	CARBON	220	5%	1/4W	
R220	1-247-725-11	CARBON	10K	5%	1/4W	
R221	1-247-704-11	CARBON	220	5%	1/4W	
R222	1-247-717-11	CARBON	2.2K	5%	1/4W	
R223	1-247-723-11	CARBON	6.8K	5%	1/4W	
R224	1-213-086-00	FUSIBLE	120	5%	1W	F
R251	1-249-465-11	CARBON	47K	5%	1/4W	
R252	1-247-706-11	CARBON	330	5%	1/4W	
R253	1-247-700-11	(WG).....CARBON	100	5%	1/4W	
R253	1-247-713-11	(AEP,UK,E)...CARBON	1K	5%	1/4W	
R254	1-247-516-11	(WG).....CARBON	33	5%	1/4W	
R254	1-247-700-11	(AEP,UK,E)...CARBON	100	5%	1/4W	
R255	1-247-128-00	CARBON	750	5%	1/4W	
R256	1-247-128-00	CARBON	750	5%	1/4W	
R257	1-247-700-11	CARBON	100	5%	1/4W	
R258	1-247-708-11	CARBON	470	5%	1/4W	
R259	1-247-695-11	CARBON	39	5%	1/4W	
R260	1-247-704-11	CARBON	220	5%	1/4W	
R261	1-247-721-11	CARBON	4.7K	5%	1/4W	
R262	1-214-937-00	CARBON	1M	5%	1/2W	
R263	1-249-844-11	CARBON	56K	1%	1/2W	
R265	1-249-818-11	CARBON	4.7K	1%	1/2W	
R267	1-259-501-11	CARBON	6.8	5%	1/2W	
R268	1-247-739-11	CARBON	100	5%	1/2W	
R269	1-247-704-11	CARBON	220	5%	1/4W	
R270	1-247-725-11	CARBON	10K	5%	1/4W	
R271	1-247-704-11	CARBON	220	5%	1/4W	
R272	1-247-717-11	CARBON	2.2K	5%	1/4W	
R273	1-249-577-11	CARBON	11K	5%	1/4W	
R274	1-213-086-00	FUSIBLE	120	5%	1W	F
R302	1-249-465-11	CARBON	47K	5%	1/4W	
R303	1-247-722-11	CARBON	5.6K	5%	1/4W	
R304	1-247-722-11	CARBON	5.6K	5%	1/4W	
R305	1-247-717-11	CARBON	2.2K	5%	1/4W	
R306	1-249-591-11	CARBON	43K	5%	1/4W	
R307	1-247-152-00	CARBON	7.5K	5%	1/4W	
R308	1-249-465-11	CARBON	47K	5%	1/4W	
R309	1-249-465-11	CARBON	47K	5%	1/4W	
R310	1-259-502-11	CARBON	4.7M	5%	1/4W	
R311	1-259-502-11	CARBON	4.7M	5%	1/4W	
R312	1-259-502-11	CARBON	4.7M	5%	1/4W	
R313	1-259-502-11	CARBON	4.7M	5%	1/4W	
R314	1-259-502-11	CARBON	4.7M	5%	1/4W	
R315	1-259-502-11	CARBON	4.7M	5%	1/4W	
R316	1-249-590-11	CARBON	39K	5%	1/4W	
R317	1-249-469-11	CARBON	100K	5%	1/4W	
R318	1-259-502-11	CARBON	4.7M	5%	1/4W	
R319	1-259-502-11	CARBON	4.7M	5%	1/4W	
R352	1-249-465-11	CARBON	47K	5%	1/4W	
R353	1-247-722-11	CARBON	5.6K	5%	1/4W	
R354	1-247-722-11	CARBON	5.6K	5%	1/4W	

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Ref.No.	Part No.	Description			
R355	1-247-717-11	CARBON	2.2K	5%	1/4W
R356	1-249-591-11	CARBON	43K	5%	1/4W
R357	1-247-152-00	CARBON	7.5K	5%	1/4W
R358	1-249-465-11	CARBON	47K	5%	1/4W
R359	1-249-465-11	CARBON	47K	5%	1/4W
R360	1-259-502-11	CARBON	4.7M	5%	1/4W
R361	1-259-502-11	CARBON	4.7M	5%	1/4W
R362	1-259-502-11	CARBON	4.7M	5%	1/4W
R363	1-259-502-11	CARBON	4.7M	5%	1/4W
R364	1-259-502-11	CARBON	4.7M	5%	1/4W
R365	1-259-502-11	CARBON	4.7M	5%	1/4W
R366	1-249-590-11	CARBON	39K	5%	1/4W
R367	1-249-469-11	CARBON	100K	5%	1/4W
R368	1-259-502-11	CARBON	4.7M	5%	1/4W
R369	1-259-502-11	CARBON	4.7M	5%	1/4W
R401	1-259-503-11	CARBON	4.7M	5%	1/2W
R402	1-247-713-11	CARBON	1K	5%	1/4W
R403	1-247-692-11	CARBON	22	5%	1/4W
R404	1-247-692-11	CARBON	22	5%	1/4W
R405	1-247-717-11	CARBON	2.2K	5%	1/4W
R406	1-247-704-11	CARBON	220	5%	1/4W
R407	1-247-700-11	CARBON	100	5%	1/4W
R408	1-247-703-11	CARBON	180	5%	1/4W
R409	1-247-704-11	CARBON	220	5%	1/4W
R410	1-246-545-00	CARBON	1M	5%	1/4W
R412	△ 1-219-010-11	FUSIBLE	33	5%	1/2W
R413	1-249-490-11	CARBON	27K	5%	1/2W
R414	1-247-704-11	CARBON	220	5%	1/4W
R415	1-246-531-00	CARBON	270K	5%	1/4W
R416	1-247-740-11	CARBON	120	5%	1/2W
R417	1-249-486-11	CARBON	12K	5%	1/2W
R418	1-247-764-11	CARBON	10K	5%	1/2W
R419	1-259-503-11	CARBON	4.7M	5%	1/2W
R420	1-247-715-11	CARBON	1.5K	5%	1/4W
R421	1-247-721-11	CARBON	4.7K	5%	1/4W
R422	△ 1-219-022-11	FUSIBLE	100	5%	1/2W
R423	1-247-717-11	CARBON	2.2K	5%	1/4W
R424	1-247-718-11	CARBON	2.7K	5%	1/4W
R425	1-247-711-11	CARBON	680	5%	1/4W
R426	△ 1-212-998-00	FUSIBLE	470	5%	1/2W F
R427	△ 1-217-997-11	FUSIBLE	10	5%	1/2W
R428	△ 1-217-997-11	FUSIBLE	10	5%	1/2W
R429	△ 1-212-982-00	FUSIBLE	100	5%	1/2W F
R430	△ 1-217-997-11	FUSIBLE	10	5%	1/2W
R431	△ 1-217-997-11	FUSIBLE	10	5%	1/2W
R432	△ 1-217-997-11	FUSIBLE	10	5%	1/2W
R433	△ 1-217-997-11	FUSIBLE	10	5%	1/2W
R434	△ 1-217-151-00	RES, METAL PLATE 0.22			
R435	△ 1-217-151-00	RES, METAL PLATE 0.22			
R436	△ 1-217-151-00	RES, METAL PLATE 0.22			
R437	△ 1-217-151-00	RES, METAL PLATE 0.22			
R438	△ 1-247-692-11	CARBON	22	5%	1/4W F
R439	△ 1-247-692-11	CARBON	22	5%	1/4W F
R440	△ 1-247-717-11	CARBON	2.2K	5%	1/4W F
R441	1-249-460-11	CARBON	15K	5%	1/4W
R442	△ 1-219-002-11	FUSIBLE	15	5%	1/2W
R443	1-247-727-11	CARBON	10	5%	1/2W

Ref.No.	Part No.	Description			
R444	△ 1-219-022-11	FUSIBLE	100	5%	1/2W
R445	△ 1-219-022-11	FUSIBLE	100	5%	1/2W
R446	1-247-752-11	CARBON	1K	5%	1/2W
R447	1-249-478-11	CARBON	2.2	5%	1/2W
R448	1-249-478-11	CARBON	2.2	5%	1/2W
R449	△ 1-219-002-11	FUSIBLE	15	5%	1/2W
R450	1-247-752-11	CARBON	1K	5%	1/2W
R451	1-259-503-11	CARBON	4.7M	5%	1/2W
R452	1-247-713-11	CARBON	1K	5%	1/4W
R453	1-247-692-11	CARBON	22	5%	1/4W
R454	1-247-692-11	CARBON	22	5%	1/4W
R455	1-247-717-11	CARBON	2.2K	5%	1/4W
R456	1-247-704-11	CARBON	220	5%	1/4W
R457	1-247-700-11	CARBON	100	5%	1/4W
R458	1-247-703-11	CARBON	180	5%	1/4W
R459	1-247-704-11	CARBON	220	5%	1/4W
R460	1-246-545-00	CARBON	1M	5%	1/4W
R462	△ 1-219-010-11	FUSIBLE	33	5%	1/2W
R463	1-249-490-11	CARBON	27K	5%	1/2W
R464	1-247-704-11	CARBON	220	5%	1/4W
R465	1-246-531-00	CARBON	270K	5%	1/4W
R466	1-247-740-11	CARBON	120	5%	1/2W
R467	1-249-486-11	CARBON	12K	5%	1/2W
R468	1-247-764-11	CARBON	10K	5%	1/2W
R469	1-259-503-11	CARBON	4.7M	5%	1/2W
R470	1-247-715-11	CARBON	1.5K	5%	1/4W
R471	1-247-721-11	CARBON	4.7K	5%	1/4W
R472	△ 1-219-022-11	FUSIBLE	100	5%	1/2W
R473	1-247-717-11	CARBON	2.2K	5%	1/4W
R474	1-247-718-11	CARBON	2.7K	5%	1/4W
R475	1-247-711-11	CARBON	680	5%	1/4W
R476	△ 1-212-998-00	FUSIBLE	470	5%	1/2W F
R477	△ 1-217-997-11	FUSIBLE	10	5%	1/2W
R478	△ 1-217-997-11	FUSIBLE	10	5%	1/2W
R479	△ 1-212-982-00	FUSIBLE	100	5%	1/2W F
R480	△ 1-217-997-11	FUSIBLE	10	5%	1/2W
R481	△ 1-217-997-11	FUSIBLE	10	5%	1/2W
R482	△ 1-217-997-11	FUSIBLE	10	5%	1/2W
R483	△ 1-217-997-11	FUSIBLE	10	5%	1/2W
R484	△ 1-217-151-00	RES, METAL PLATE 0.22			
R485	△ 1-217-151-00	RES, METAL PLATE 0.22			
R486	△ 1-217-151-00	RES, METAL PLATE 0.22			
R487	△ 1-217-151-00	RES, METAL PLATE 0.22			
R488	△ 1-247-692-11	CARBON	22	5%	1/4W F
R489	△ 1-247-692-11	CARBON	22	5%	1/4W F
R490	△ 1-247-717-11	CARBON	2.2K	5%	1/4W F
R491	1-249-460-11	CARBON	15K	5%	1/4W
R492	△ 1-219-002-11	FUSIBLE	15	5%	1/2W
R493	1-247-727-11	CARBON	10	5%	1/2W
R494	△ 1-219-022-11	FUSIBLE	100	5%	1/2W
R495	△ 1-219-022-11	FUSIBLE	100	5%	1/2W
R496	1-247-752-11	CARBON	1K	5%	1/2W
R497	1-249-478-11	CARBON	2.2	5%	1/2W
R498	1-249-478-11	CARBON	2.2	5%	1/2W
R499	△ 1-219-002-11	FUSIBLE	15	5%	1/2W
R500	1-247-752-11	CARBON	1K	5%	1/2W
R501	1-249-469-11	CARBON	100K	5%	1/4W

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Ref.No.	Part No.	Description			
R502	1-249-469-11	CARBON	100K	5%	1/4W
R551	1-249-469-11	CARBON	100K	5%	1/4W
R552	1-249-469-11	CARBON	100K	5%	1/4W
R601	1-247-891-00	CARBON	330K	5%	1/4W
R602	1-247-887-00	CARBON	220K	5%	1/4W
R603	1-247-725-11	CARBON	10K	5%	1/4W
R604	1-249-461-11	CARBON	18K	5%	1/4W
R605	1-246-530-00	CARBON	240K	5%	1/4W
R606	1-247-725-11	CARBON	10K	5%	1/4W
R607	1-247-717-11	CARBON	2.2K	5%	1/4W
R608	1-249-465-11	CARBON	47K	5%	1/4W
R609	1-249-465-11	CARBON	47K	5%	1/4W
R610	1-249-462-11	CARBON	22K	5%	1/4W
R611	1-247-750-11	CARBON	680	5%	1/2W
R612	1-247-717-11	CARBON	2.2K	5%	1/4W
R613	1-247-754-11	CARBON	1.5K	5%	1/2W
R614	1-247-754-11	CARBON	1.5K	5%	1/2W
R616	1-247-693-11	CARBON	27	5%	1/4W
R617	△ 1-249-489-11	CARBON	22K	5%	1/2W F
R618	1-247-749-11	CARBON	560	5%	1/2W
R619	1-247-749-11	CARBON	560	5%	1/2W
R620	1-247-749-11	CARBON	560	5%	1/2W
R621	1-247-749-11	CARBON	560	5%	1/2W
R622	1-247-749-11	CARBON	560	5%	1/2W
R623	1-247-749-11	CARBON	560	5%	1/2W
R624	1-247-749-11	CARBON	560	5%	1/2W
R625	1-247-749-11	CARBON	560	5%	1/2W
R626	1-247-749-11	CARBON	560	5%	1/2W
R627	1-247-749-11	CARBON	560	5%	1/2W
R628	1-247-749-11	CARBON	560	5%	1/2W
R630	1-247-727-11	(WG)...CARBON	10	5%	1/2W
R631	1-247-255-00	CARBON	4.3K	5%	1/2W
R632	1-247-255-00	CARBON	4.3K	5%	1/2W
R633A	1-247-721-11	CARBON	4.7K	5%	1/4W
R633	1-247-739-11	CARBON	100	5%	1/2W
R650	1-247-138-00	CARBON	2K	5%	1/4W
R651	1-247-891-00	CARBON	330K	5%	1/4W
R652	1-247-721-11	CARBON	4.7K	5%	1/4W
R653	△ 1-212-934-00	FUSIBLE	1	5%	1/2W F
R680	1-247-727-11	(WG)...CARBON	10	5%	1/2W
R681	1-247-255-00	CARBON	4.3K	5%	1/2W
R682	1-247-255-00	CARBON	4.3K	5%	1/2W
R683	1-247-739-11	CARBON	100	5%	1/2W
R701	△ 1-213-086-00	FUSIBLE	120	5%	1W F
R751	△ 1-213-086-00	FUSIBLE	120	5%	1W F
RT401	1-237-873-11	RES, ADJ, CARBON	100		
RT402	1-237-455-11	RES, ADJ, CARBON	500		
RT451	1-237-873-11	RES, ADJ, CARBON	100		
RT452	1-237-455-11	RES, ADJ, CARBON	500		
RV301	1-238-416-11	RES, VAR, CARBON	150K/150K		(BALANCE)
RV302	1-238-418-11	RES, VAR, CAOBN	250K/250K		(TREBLE)
RV303	1-238-417-11	RES, VAR, CARBON	25K/500K		(BASS)
RV304	1-237-175-11	RES, VAR, CARBON	120K/120K		(ATTENUATOR)
RY601	1-515-614-11	RELAY			
RY602	1-515-356-00	RELAY			
RY603	1-515-356-00	RELAY			

Ref.No.	Part No.	Description
S101	1-554-879-11	SWITCH, SLIDE (INPUT SELECTOR)
S102	1-570-593-11	SWITCH, SLIDE (REMOTE TYPE) (INPUT SELECTOR)
S103	1-570-076-11	SWITCH, SLIDE (REMOTE TYPE) (REC OUT SELECTOR)
S201	1-554-019-21	SWITCH, SLIDE (REMOTE TYPE) (CARTRIDGE LOAD)
S301	1-571-773-11	SWITCH, PUSH (2 KEY)(MUTING -20dB)
S302	1-571-773-11	SWITCH, PUSH (2 KEY)(SUBSONIC)
S303	1-571-772-11	SWITCH, PUSH (3 KEY)(TONE)
S304	1-571-774-11	SWITCH, PUSH (1 KEY)(SOURCE DIRECT)
S305	1-571-772-11	SWITCH, PUSH (3 KEY)(TURNOVER)
S306	1-571-772-11	SWITCH, PUSH (3 KEY)(TURNOVER)
S501	1-571-775-11	SWITCH, ROTARY (MODE)
S601	1-571-776-11	SWITCH, ROTARY (SPEAKERS)
S801	△ 1-554-538-00	SWITCH, PUSH (AC POWER)(1 KEY)
T1	△ 1-449-652-11	(AEP)...TRANSFORMER, POWER
T1	△ 1-449-653-11	(WG)...TRANSFORMER, POWER
T1	△ 1-449-654-11	(E)...TRANSFORMER, POWER
T1	△ 1-449-655-11	(UK)...TRANSFORMER, POWER
TM801	1-536-767-41	TERMINAL BOARD, SPEAKER (SPEAKER A)
TM802	1-536-767-41	TERMINAL BOARD, SPEAKER (SPEAKER B)
VS801	△ 1-526-576-51	(E)...SELECTOR, POWER VOLTAGE

ACCESSORY & PACKING MATERIAL

3-786-976-11	(UK,E)....MANUAL, INSTRUCTION
3-786-976-41	(AEP,WG)...MANUAL, INSTRUCTION
4-847-802-00	(EXCEPT UK)...SCREW
4-915-880-01	SHEET, PROTECTION
*4-923-840-01	(E).....INDIVIDUAL CARTON
*4-923-840-11	(AEP,WG)...INDIVIDUAL CARTON
*4-929-262-01	(UK).....INDIVIDUAL CARTON
*4-923-860-01	(AEP,WG,E)...CUSHION
*4-929-219-11	(UK).....CUSHION

Note: The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.