

Service Manual

Stereo Integrated Amplifier

SU-7300

(XA), (XAL), (XG), (XGH),
(XGF), (XSD), (XSW), (XE)

The cabinet color shall be subject to change dependent on the destination.

The model SU-7300 [XA] is available in Asia, Latin America, Middle East and Africa.
The model SU-7300 [XAL] is available in Australia only.
The model SU-7300 [XG] is available in European only.
The model SU-7300 [XGH] is available Holland only.
The model SU-7300 [XSD] is available in Scandinavia only.
The model SU-7300 [XSW] is available in Switzerland only.
The model SU-7300 [XE] is available in England only.
The model SU-7300 [XGF] is available in France only.

TECHNICAL SPECIFICATIONS (IHF) Specifications are subject to change without notice for further improvement.

AMPLIFIER SECTION

1kHz continuous power:	both channels driven	55W + 55W (4Ω) 43W + 43W (8Ω)
20Hz ~ 20kHz continuous power:	both channels driven	48W + 48W (4Ω) 41W + 41W (8Ω)
Power bandwidth (both channels driven at 8Ω):	8Hz ~ 55kHz, -3dB	
Total harmonic distortion:	0.08% at rated power (20Hz ~ 20kHz) 0.04% at half power (20Hz ~ 20kHz) 0.02% at half power (1kHz)	
Intermodulation distortion:	0.08% (60Hz : 7 kHz = 4 : 1, SMPTE)	
Residual hum and noise:		0.6mV
Damping factor:		20 (4Ω), 40 (8Ω)
Input sensitivity and impedance:		
PHONO		2.5mV/47kΩ
TUNER		150mV/47kΩ
PLAYBACK (TAPE 1)		180mV/47kΩ
PLAYBACK (TAPE 2)		150mV/47kΩ
REC/PLAY (TAPE 1) input		180mV/47kΩ
PHONO maximum input voltage (1kHz, RMS):		150mV
Signal to noise ratio (IHF, A):	PHONO	78dB
	TUNER	97dB

Frequency response:	PHONO	RIAA standard curve ±0.3dB
	TUNER	7Hz ~ 80kHz, +0dB, -3dB
		20Hz ~ 20kHz, ±0.5dB
Tone controls:	BASS	50Hz, +12dB ~ -12dB
	TREBLE	20kHz, +12dB ~ -12dB
High filter:		8kHz, -6dB/oct.
Loudness control (volume at -30dB):		100Hz, +8dB
Output voltage and impedance:		
	REC OUT (TAPE 1, 2)	150mV/1.2kΩ
	REC/PLAY (TAPE 1) output	30mV/82kΩ
	MAIN or REMOTE	4 ~ 16Ω
Load impedance:		

GENERAL

Power consumption:	400W
Power supply (50Hz/60Hz):	110V/120V/220V/240V
	240V only (Set for Australia)
Dimensions (W x H x D):	410 x 139 x 334mm
	(16-5/32" x 5-15/32" x 13-5/32")
Weight:	8.9kg (19.6lb)

TECHNISCHE DATEN (DIN 45 500) Spezifikationen können infolge von Verbesserungen ohne Ankündigung geändert werden.

VERSTÄRKERTEIL

RMS-Dauertonleistung bei 1kHz:		
beide Kanäle zusammen angesteuert	2 x 55W (4Ω) 2 x 43W (8Ω)	
RMS-Dauertonleistung bei 20Hz ~ 20kHz:		
beide Kanäle zusammen angesteuert	2 x 48W (4Ω) 2 x 41W (8Ω)	
RMS-Dauertonleistung bei 40Hz ~ 16kHz:		
beide Kanäle zusammen angesteuert	2 x 48W (4Ω) 2 x 41W (8Ω)	
Leistungsbandbreite (beide Kanäle zusammen angesteuert bei 4Ω):	8Hz ~ 55kHz, -3dB	
Harmonische Verzerrungen:		
Nennausgangsleistung bei 1kHz, 4Ω	0.08%	
Nennausgangsleistung bei 40Hz ~ 16,000Hz, 4Ω	0.08%	
-26dB Nennausgangsleistung bei 1kHz, 4Ω	0.1%	
50mW Ausgangsleistung bei 1kHz, 4Ω	0.15%	
Intermodulationsverzerrung:		
Nennausgangsleistung bei 250Hz : 8,000Hz = 4 : 1, 4Ω	0.08%	
Hum & noise:	0.6mV	
Dämpfungsfaktor:	20 (4Ω), 40 (8Ω)	
Eingangsempfindlichkeit & Impedanz:		
PHONO	2.5mV/47kΩ	
TUNER	150mV/47kΩ	
PLAYBACK (TAPE 1)	180mV/47kΩ	
PLAYBACK (TAPE 2)	150mV/47kΩ	
REC/PLAY (TAPE 1) Eing.	180mV/47kΩ	
PHONO Maximale Eingangsspannungen (1kHz, RMS)	150mV	

Fremdspannungsabstand:

Nennleistung	PHONO	63dB
	TUNER	83dB
-26dB Nennausgangsleistung	PHONO	55dB
	TUNER	58dB
50mW Ausgangsleistung	PHONO, TUNER	53dB
Frequenzgang:		7Hz ~ 80kHz, +0dB, -3dB
		15Hz ~ 40kHz, +0dB, -1dB
Klangregler:	BÄSSE (BASS)	50Hz, +12dB bis -12dB
	HÖHEN (TREBLE)	20kHz, +12dB bis -12dB

Höhenfilter (HIGH):	8kHz, -6dB/oct.
Gehörliche Lautstärke (Lautstärke -30dB):	100Hz, +8dB
Ausgangsspannungen: REC OUT (TAPE 1, 2)	150mV/1.2kΩ
REC/PLAY (TAPE 1) Aufnahme	30mV/82kΩ
Kopfhörerpegel & Ausgangsimpedanz:	350mV/330Ω
Ausgangsimpedanz: MAIN oder REMOTE	4 ~ 16Ω

Kanaltrennung:	±1.5dB
Kanalabweichung:	50dB

ALLGEMEINE DATEN

Leistungsaufnahme:	400W
Netzspannung (50Hz/60Hz):	110V/120V/220V/240V
Abmessungen (B x H x T):	410 x 139 x 334 mm
Gewicht:	8.9kg

CARACTERISTIQUES TECHNIQUES (IHF) Sujet à changement sans préavis.

PARTIE AMPLIFICATEUR

1kHz, puissance continue: total 2 canaux 55W + 55W (4Ω)
43W + 43W (8Ω)

20Hz ~ 20kHz, puissance continue: total 2 canaux 48W + 48W (4Ω)
41W + 41W (8Ω)

Largeur de bande de puissance: total 2 canaux 8Ω
8Hz ~ 55 kHz, -3dB

Distorsion harmonique totale:
à la puissance nominale (20Hz ~ 20kHz) 0.08%
à demi-puissance (20Hz ~ 20kHz) 0.04%
à demi-puissance (1kHz) 0.02%

Distorsion par intermodulation:
0.08% (60Hz : 7 kHz = 4 : 1, SMPTE)

Tension résiduelle de bruit: 0.6mV

Facteur d'amortissement: 20 (4Ω), 40 (8Ω)

Sensibilité et impédance d'entrée:
PHONO 2.5mV/47kΩ
TUNER 150mV/47kΩ
Magnétophone 1. LECTURE 180mV/47kΩ
Magnétophone 2. LECTURE 150mV/47kΩ
Magnétophone 1. REC/PLAY 180mV/47kΩ

Tension max. d'entrée PHONO (1kHz, eff.): 150mV

Rapport S/B (IHF, A): **PHONO** 78dB
TUNER 97dB

Courbe de réponse: **PHONO** norme RIAA ±0.3dB
TUNER 7Hz ~ 80kHz +0dB, -3dB
20Hz ~ 20kHz, ±0.5dB

Commandes de tonalité: **Grave (BASS)** 50Hz, +12dB à -12dB
Aigu (TREBLE) 20kHz, +12dB à -12dB

Filtre Aigu (HIGH): 8kHz, -6dB/oct.

Correction physiologique (Volume à -30dB) 100Hz, +8dB

Tension de sortie: **Magnétophone 1, 2, Enregistrement** 150mV/1.2kΩ
Magnétophone 1, REC/PLAY 30mV/82kΩ

Impédance de charge: **PRINCIPAL ou ELOIGNE** 4 à 16Ω

GENERALITES

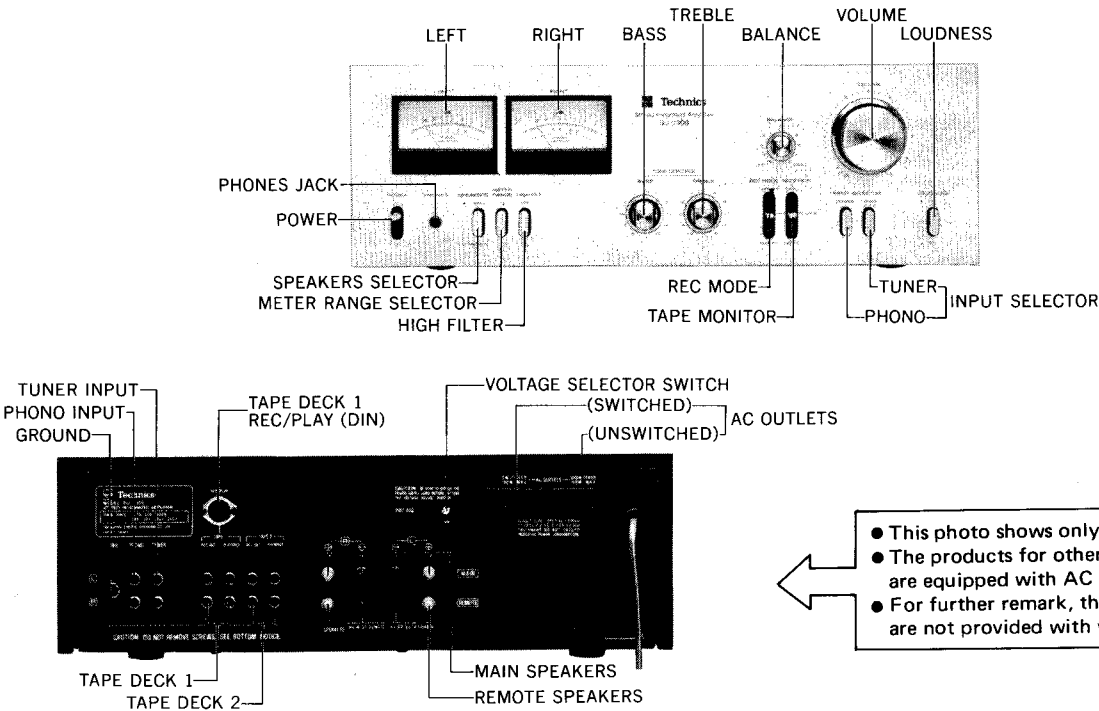
Consommation: 400W

Alimentation (50Hz/60Hz): 110V/120V/220V/240V

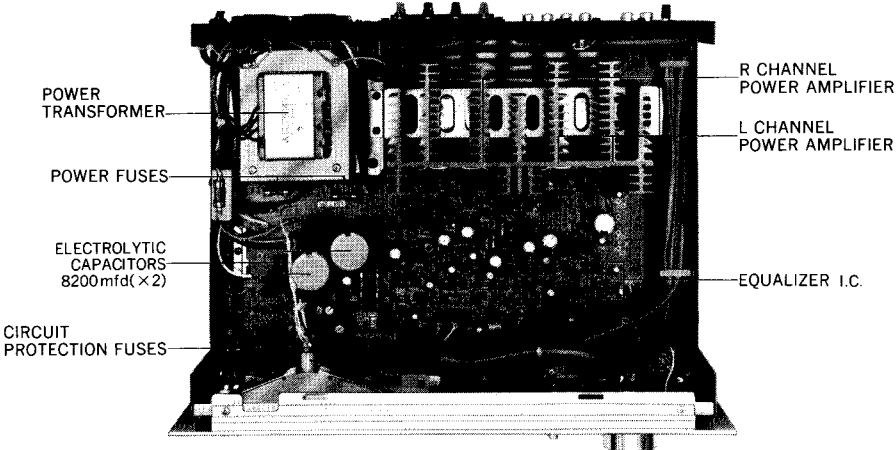
Dimensions (L x H x P): 410 x 139 x 334mm

Poids: 8.9kg

■ LOCATION OF CONTROLS



● This photo shows only the products for [XA].
● The products for other desitnations except [XA] are equipped with AC outlets.
● For further remark, the products for [XAL] are not provided with voltage selector and AC outlets.



■ TO REMOVE CABINET

1. Remove four (4) cabinet-mounting screws, nos. ①~④ as shown in Fig. 1.
2. Remove cabinet from chassis in arrow direction 1 to 2, as shown in Fig. 1.
3. To reassemble, reverse above procedure.

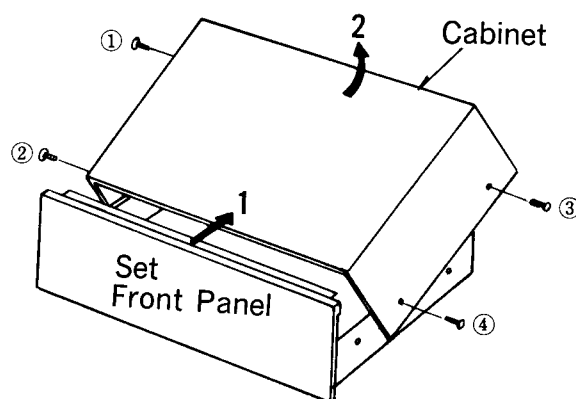


Fig. 1

■ TO REMOVE CHASSIS

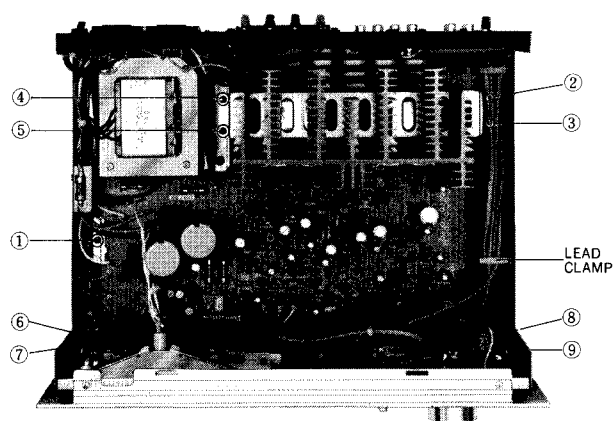


Fig. 2

1. Remove cabinet from chassis. (Refer to "To remove cabinet").
2. Remove lead wires from lead clamp. (Refer to Fig. 2).
3. Remove a screw and printed circuit board metal clamp. (Refer to Fig. 2: ①).

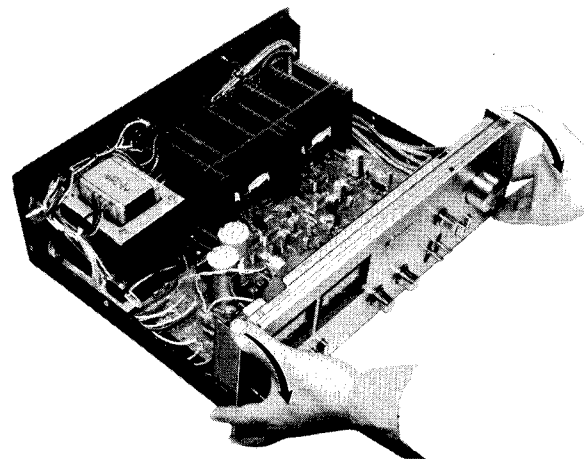


Fig. 3

4. Remove four (4) heat sink-mounting screws. (Refer to Fig. 2: ②~⑤).
5. Remove four (4) panel-mounting screws from chassis. (Refer to Fig. 2: ⑥~⑨, left and right side).
6. As photo in Fig. 3, hold the panel at its side ends and push it downward tilting slightly its top part to the frontward direction.
7. Remove the front panel from the chassis. (Fig. 4 to Fig. 5).
8. Set the printed circuit board on the chassis as indicated in Fig. 6.
9. The front panel can be reset in the reverse sequence.
10. Mount the lever switch bracket inside the chassis prior to resetting the front panel. (Fig. 6).

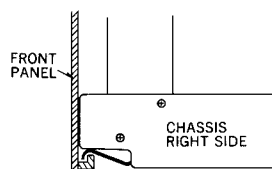


Fig. 4

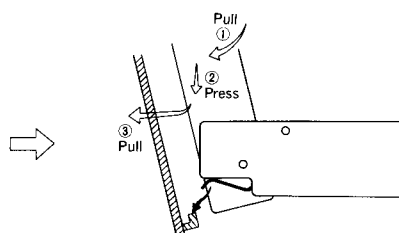


Fig. 5

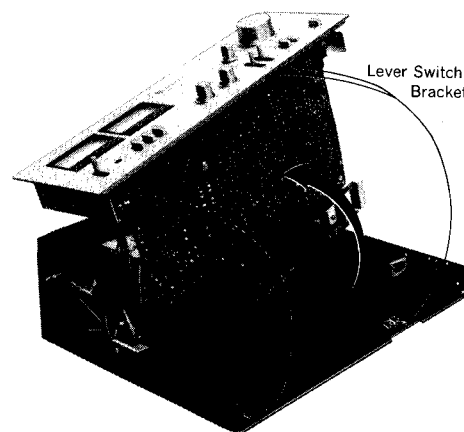


Fig. 6

■ NOTE

The unit is provided with the speaker circuit protection fuses at the right and left channels respectively. The fuse is to prevent the power transistor from destruction, should the speaker terminals be short-circuited. Accordingly, if the unit fails to function upon completion of the speaker connections, check the speaker protection fuses first of all for possible blowing.

■ ALIGNMENT INSTRUCTIONS

- When the power transistor is replaced, be sure to apply silicone compound (or equivalent thermal diffusion agent) onto the mica plate, and at the same time confirm the idling current of the power transistor. (measure voltage across the emitter resistance)
- Ⓐ For adjustment with DC voltmeter
- Turn the speaker switch "OFF".
 - Connect the DC voltmeter as in Fig. 7 of the adjusting spot diagram.
 - If the reading is under 25mV approximately several minutes after turning ON the power supply, the circuit is "OK". On the other hand, if the reading is over 25mV, cut off the lead wire for **L** in the case of left channel (The lead wire for **R** in the case of right channel).
 - Should the reading not fall under 25mV even when the lead wire has been cut off, there is something wrong with the circuit, and therefore, check the power source circuit or main amplifier circuit.

NOTE: When cutting off the lead wire, cut off the same at the root.

- Ⓑ Current should be checked only when adjustment is made with a tester. (measuring instrument incapable of measuring voltage in mV unit).
- Turn OFF the power supply for the set.
 - Connect the ammeter as shown in Fig. 9.
 - After ensuring that the ammeter will not come off, turn ON the power supply.
 - If the reading is under 75mA after several minutes (But, when nothing resistance of internal resistor by ammeter) the circuit is "OK". If over 75mA, cut off the lead wire for **L** in the case of left channel (The lead wire for **R** in the case of right channel).
 - If the reading does not fall under 75mA, there is something wrong with the circuit.

NOTE: The adjustment may be made either by Ⓐ or by Ⓑ method. (We recommend the method Ⓐ where possible). Figs. 8 and 9 are related to the case of left channel.

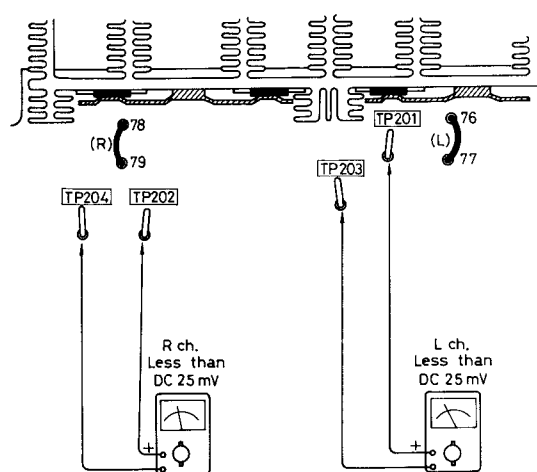
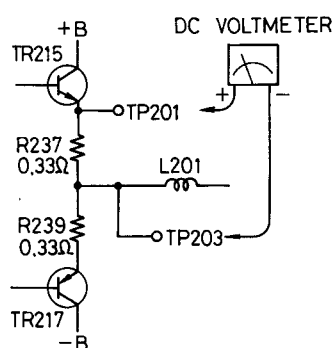
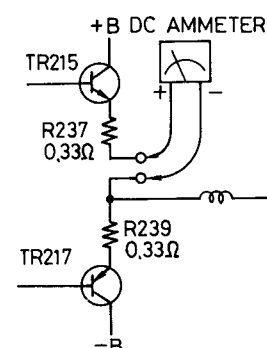


Fig. 7 (Abb. 7)



Voltage check method
(Stromspannung-prüfmethode)
Méthode de vérification
de tension

Fig. 8 (Abb. 8)



Current check method
(Stromstärke-Prüfmethode)
Méthode de vérification
de courant

Fig. 9 (Abb. 9)

■ ABGLEICHANWEISUNGEN

- Wenn der Netztransistor ersetzt wird, ist zu beachten, daß eine Siliziumverbindung (oder ähnliches Thermodiffusionsmittel) auf die Glimmerplatte gegeben wird, und zur gleichen Zeit der Blindstrom des Netztransistors festgestellt wird.. (Die Spannung über den Emitterwiderstand messen.)

- Ⓐ Zum Justieren mit dem Gleichstrom-Voltmeter
1. Drehen Sie den Lautsprecherschalter auf "OFF".
 2. Schließen Sie den Gleichstrom-Voltmeter an, wie in Abb. 7 des Justrerpunkte-Diagramms gezeigt.
 3. Falls die Anzeige weniger als ca. 25 mV beträgt, so ist die Schaltung in Ordnung. Falls aber die Anzeige mehr als 25 mV beträgt, sehneiden Sie den Leitungsdraht für **L** im Palle des linken Kanals weg (oder den Leitungsdraht für **R** im Falle des rechten Kanals) .
 4. Falls die Anzeige auch nach Unterbrechen des Leitungsdrahtes nicht unter 25 mV fällt, so ist die Schaltung nicht in Ordnung, und die Stromquellschaltung und die Hauptverstärkerschaltung müssen überprüft werden.

ANMERKUNG: Falls das Wegschneiden des Leitungsdrahtes nötig ist, schneiden Sie diesen nahe am Anschlußpunkt weg.

- Ⓑ Die Stromstärke sollte nur geprüft werden, wenn die Justierung mit einem Prüfgerät vorgenommen wird. (Mit dem Meßinstrument kann die Spannung nicht in mV gemessen werden.)
1. Schalten Sie die Stromzufuhr zum Gerät aus.
 2. Schließen Sie das Ammeter an, wie in Abb. 9 gezeigt.
 3. Nachdom Sie sich vergewissert haben, daß das Ammeter solide befestigt ist, schalten Sie die Stromzufuhr ein.
 4. Falls die Anzeige einige Minuten nach dem Einschalten weniger als 75 mA beträgt, so ist die Schaltung in Ordnung. Liegt die Anzeige über 75 mA, schneiden Sie den Leitungsdraht für **L** im Falle des linken Kanals weg. (oder den Leitungsdraht für **R** im Falle des rechten Kanals) .
 5. Falls die Anzeige auch dann nicht unter 75 mA fällt, so ist die Schaltung defekt.

ANMERKUNG: Die Justierung kann entweder nach Methode Ⓐ oder Ⓑ vorgenommen werden. (Wo möglich, empfehlen wir Methode Ⓐ). Die Abbildungen 8 und 9 beziehen sich auf den linken kanal.

■ INSTRUCTIONS D'ALIGNEMENT

- Lorsque le transistor de puissance est remplacé, s'assurer d'appliquer le composé de silicone (ou un agent de diffusion thermique équivalent) sur la plaque de mica et confirmer en même temps le courant déwatté du transistor de puissance. (Mesurer la tension à travers la résistance de l'émetteur).

- Ⓐ Pour la mise au point avec un voltmètre C.C.
1. Tourner le commutateur de haut-parleur sur "OFF".
 2. Connecter le voltmètre C.C. comme dans la Fig. 7 du schéma des endroits de vérification.
 3. Si la lecture est approximativement inférieure à 25 mV plusieurs minutes après la mise en marche de l'alimentation, le circuit fonctionne correctement. Par contre, si la lecture est au-delà de 25 mV, couper le fil de jonction pour **L** dans le cas du canal Gauche [L] , (le fil de jonction pour **R**, dans le cas du canal Droite [R]).
 4. Si la lecture ne descends pas au-dessous de 25 mV même lorsque le fil de jonction a été coupé, cela signifie qu'il y a quelque chose d'incorrect dans le circuit et par conséquent, il sera nécessaire de vérifier le circuit d'alimentation ou le circuit d'amplification principal.

REMARQUE: Lorsqu'on coupe le fil de jonction, le couper à l'extrémité de sa racine.

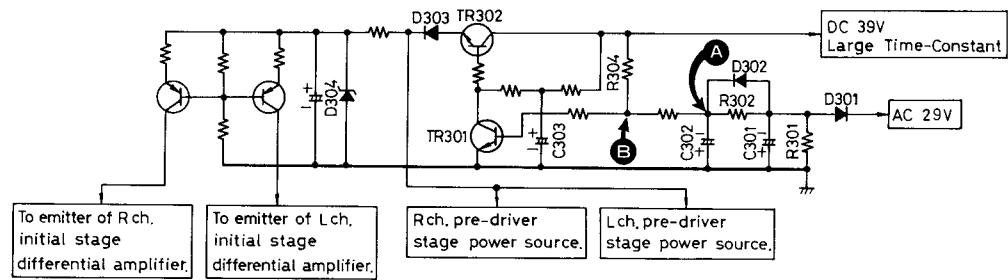
- Ⓑ Le courant ne devra être vérifié seulement que lorsque la mise au point est faite avec un appareil contrôleur. (Appareil de mesure incapable d'une tension de mesure dans un appareillage de mV).
1. Couper l'alimentation de l'appareillage.
 2. Brancher l'ampèremètre, comme il est montré à la Fig. 9.
 3. Après s'être assuré que l'ampèremètre n'est pas débranché, mettre en marche l'alimentation.
 4. Si la lecture est inférieure à 75 mA après plusieurs minutes, le circuit fonctionne correctement. Si par contre la lecture va au-delà de 75 mA, couper le fil de jonction pour **L** dans le cas du canal Gauche [L] , (le fil de jonction pour **R**, dans le cas du canal Droite [R]).
 5. Si la lecture ne descends pas au-dessous de 75 mA, cela signifie qu'il y a quelque chose de défectueux dans le circuit.

REMARQUE: La mise au point doit être faite soit avec la méthode Ⓐ, soit avec la méthode Ⓑ. (Si c'est possible, nous recommandons la méthode Ⓐ). Les Figures 8 et 9 se rapportent au cas du canal Gauche [L].

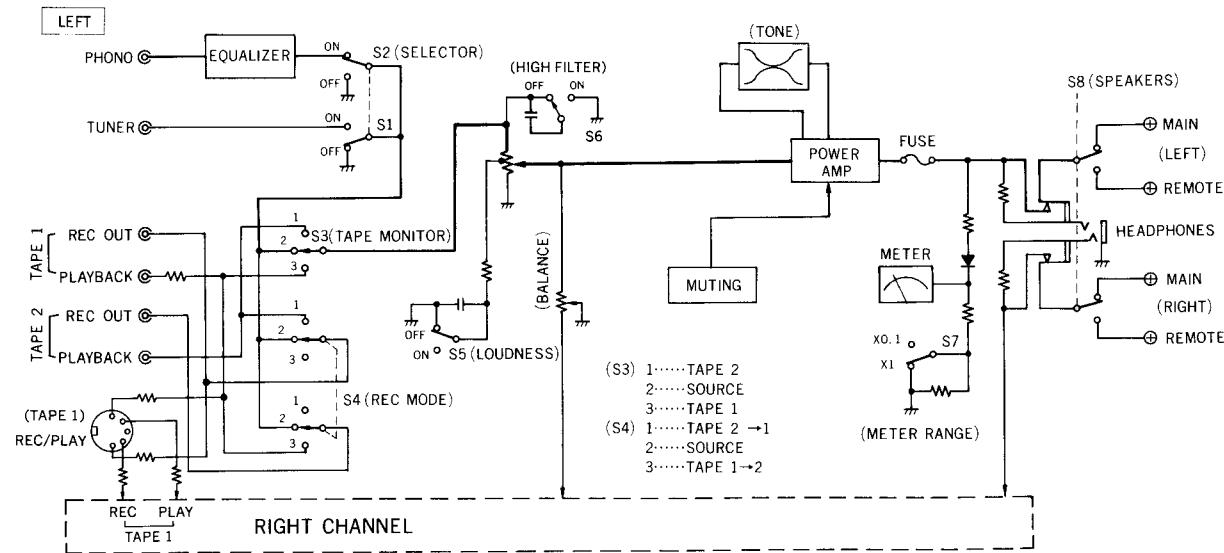
■ SERVICE AID

Shock noise prevention circuit during ON-OFF of power supply

In the voltage at the point Ⓐ, at he moment when the power supply is turned ON, C302 is charged by the current rectified to negative through D301. Therefore, gradual change to minus takes place from 0V. During this time, positive voltage is applied to the base of TR301 which is thus rendered conductive. Consequently, the base of TR302 connected to TR301 is of ground potential, with TR302 not being functioning. In other words, no current is Howing through the preamplifier in this state. After the power supply is turned ON, the potential at the point Ⓑ gradually decreases as the point Ⓐ is saturated to negative through time constant of R302 and C302, and when TR301 reaches cut- off state, positive voltage goes on charging C303. Upon rising of the base potential of TR302 close to 0.7V, TR302 is turned ON, thus causing current to flow through the preamplifier. Time required from turning ON of the power supply to functioning of the preamplifier is set to be approximately 6 to 7 seconds. When the power supply is turned OFF, D302 is biased in the forward direction, and if $R301 \ll R302$, the charges in C301 and C302 are discharged through R301 in a short period of time. However, large positive voltage of specific constant does not fall immediately, with voltage at the point Ⓑ rising up to TR301 operating voltage for causing TR301 to function. Accordingly, the charge in C303 is discharged, and TR302 rapidly reaches cut-off state, with current being prevented from flowing through the preamplifier, so that the shock noises from the preamplifier section during turning OFF of the power supply can be eliminated.



■ BLOCK DIAGRAM

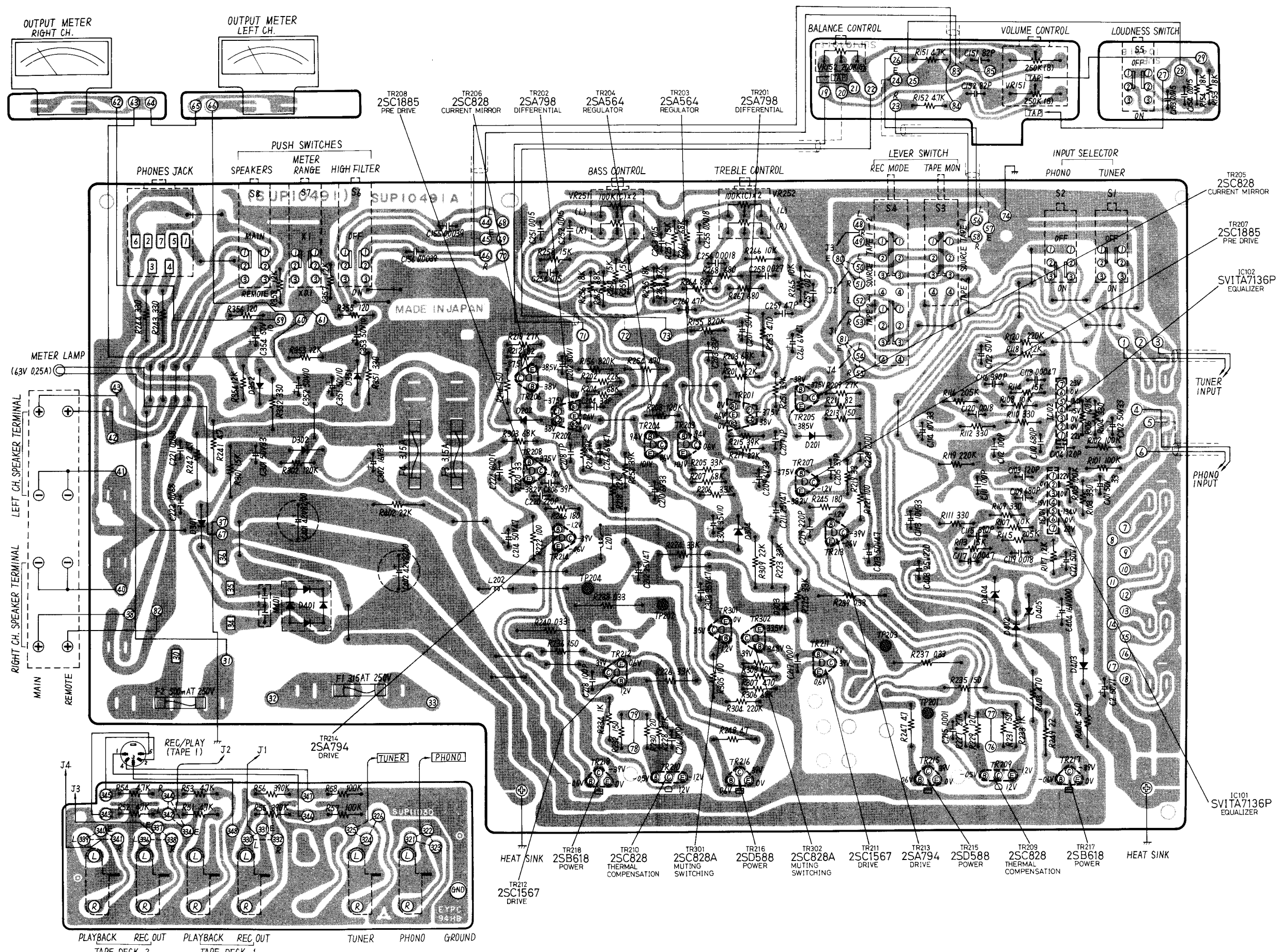


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8 SU-7300

Printed Circuit Board Model SU-7300



REPLACEMENT PARTS LIST

Important Safety Notice			
Components identified by shaded area have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.			
NOTE: 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.			
Ref. No.	Part No.	Part Name & Description	Per Set
INTEGRATED CIRCUITS			
IC101, 102	SVITA7136PM	IC, Equalizer Amplifier	2

TRANSISTORS			
TR201, 202	2SA798A-G2	Transistor, Differential Amplifier (Use in ranks F2 or G2)	2
TR203, 204	2SA666A1-R	Transistor, Regulator (in ranks Q, R or S)	2
TR205, 206, 301, 302	2SC1328-T	Transistor, Current Mirror & Switching (Use in ranks T, U or S)	4
TR207, 208	2SC1885-R	Transistor, Pre Drive (in ranks Q, R or S)	2
TR209, 210	2SC828A-R	Transistor, Thermal Compensator	2
TR211, 212	2SC1567-Q	Transistor, Driver Amplifier (in ranks Q or R)	2
TR213, 214	2SA794-Q	Transistor, Driver Amplifier (in ranks Q or R)	2
TR215, 216	2SD588-Q	Transistor, Power Amplifier (in ranks Q or R)	2
TR217, 218	2SB618-Q	Transistor, Power Amplifier (in ranks Q or R)	2

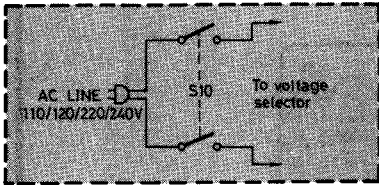
DIODES			
D201, 202, 302, 303, 402, 403	MA150	Diode, Current Mirror & Switching	6
D301	SVD10E1	Rectifier	1
D304, 405	SVDWZ314	Zener Diode, 14V	2
D351, 352	OA91	Diode, Meter Detector	2
D401	SVD5A1B10	Rectifier	1
D404	SVDWZ422	Zener Diode, 22V	1

COILS and TRANSFORMER			
L201, 202	SLQY15G-1U	Coil, Compensation	2
T1	SLT5Q49	Power Transformer, (Except set for [XAL] [XE] & [XA])	1
T1 [XAL, XE] only	SLT5R21	Power Transformer	1
T1 [XA] only	SLT5Q67	Power Transformer	1

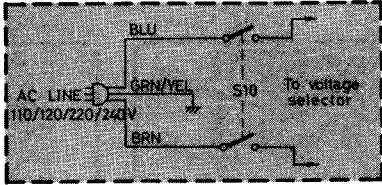
RESISTORS			
R51	ERD25TJ472	Carbon, 4.7kΩ, 1/4W, ± 5%	1
R52	ERD25TJ472	Carbon, 4.7kΩ, 1/4W, ± 5%	1
R53	ERD25TJ472	Carbon, 4.7kΩ, 1/4W, ± 5%	1
R54	ERD25TJ472	Carbon, 4.7kΩ, 1/4W, ± 5%	1
R55	ERD25TJ394	Carbon, 390kΩ, 1/4W, ± 5%	1
R56	ERD25TJ394	Carbon, 390kΩ, 1/4W, ± 5%	1
R57	ERD25TJ104	Carbon, 100kΩ, 1/4W, ± 5%	1
R58	ERD25TJ104	Carbon, 100kΩ, 1/4W, ± 5%	1
R101	ERD25TJ104	Carbon, 100kΩ, 1/4W, ± 5%	1
R102	ERD25TJ104	Carbon, 100kΩ, 1/4W, ± 5%	1
R103	ERD25TJ331	Carbon, 330Ω, 1/4W, ± 5%	1
R104	ERD25TJ331	Carbon, 330Ω, 1/4W, ± 5%	1
R105	ERD25TJ104	Carbon, 100kΩ, 1/4W, ± 5%	1
R106	ERD25TJ104	Carbon, 100kΩ, 1/4W, ± 5%	1

SCHEMATIC DIAGRAMS OF POWER SOURCE

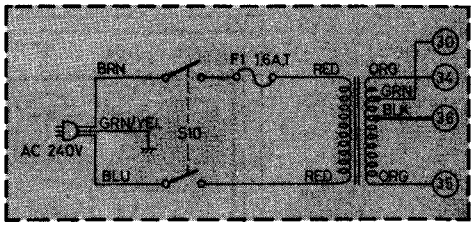
● only set for [XSD], [XSW], [XGF], [XG] and [XGH]



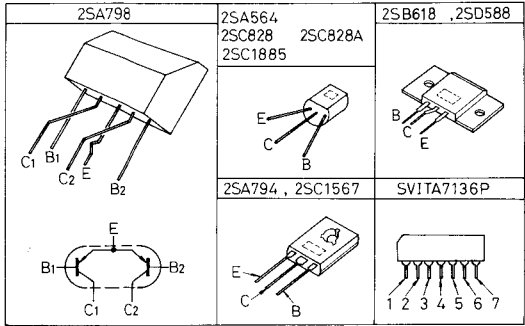
● only set for [XE]



● only set for [XAL]

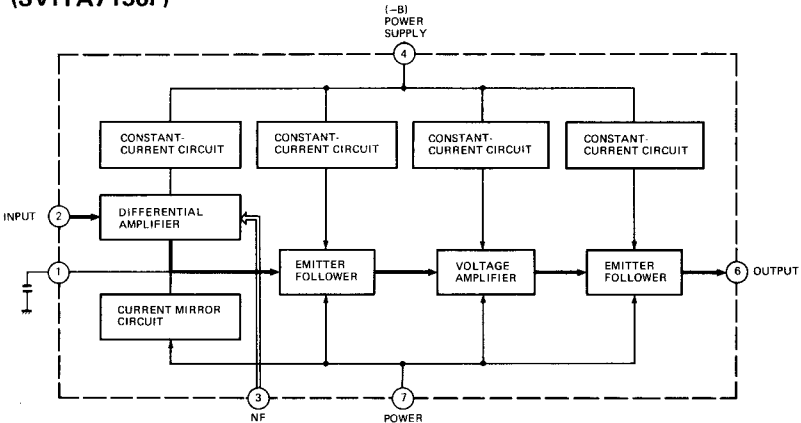


TR. & I.C. TERMINAL GUIDE



BLOCK DIAGRAM OF INTEGRATED CIRCUIT

IC101, IC102 (SVITA7136P)



Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R107	ERD25TJ103	Carbon, 10kΩ, 1/4W, ± 5%	1	
R108	ERD25TJ103	Carbon, 10kΩ, 1/4W, ± 5%	1	
R109	ERD25TJ331	Carbon, 330Ω, 1/4W, ± 5%	1	
R110	ERD25TJ331	Carbon, 330Ω, 1/4W, ± 5%	1	
R111	ERD25TJ331	Carbon, 330Ω, 1/4W, ± 5%	1	
R112	ERD25TJ331	Carbon, 330Ω, 1/4W, ± 5%	1	
R113	ERD25CKF1502	Metal Film, 15kΩ, 1/4W, ± 1%	1	
R114	ERD25CKF1502	Metal Film, 15kΩ, 1/4W, ± 1%	1	
R115	ERD25CKF2053	Metal Film, 205kΩ, 1/4W, ± 1%	1	
R116	ERD25CKF2053	Metal Film, 205kΩ, 1/4W, ± 1%	1	
R117	ERD25TJ122	Carbon, 1.2kΩ, 1/4W, ± 5%	1	
R118	ERD25TJ122	Carbon, 1.2kΩ, 1/4W, ± 5%	1	
R119	ERD25TJ224	Carbon, 220kΩ, 1/4W, ± 5%	1	
R120	ERD25TJ224	Carbon, 220kΩ, 1/4W, ± 5%	1	
R151	ERD25TJ472	Carbon, 4.7kΩ, 1/4W, ± 5%	1	
R152	ERD25TJ472	Carbon, 4.7kΩ, 1/4W, ± 5%	1	
R153	ERD25TJ183	Carbon, 18kΩ, 1/4W, ± 5%	1	
R154	ERD25TJ183	Carbon, 18kΩ, 1/4W, ± 5%	1	
R155	ERD25TJ824	Carbon, 820kΩ, 1/4W, ± 5%	1	
R156	ERD25TJ824	Carbon, 820kΩ, 1/4W, ± 5%	1	
R201	ERD25TJ222	Carbon, 2.2kΩ, 1/4W, ± 5%	1	
R202	ERD25TJ222	Carbon, 2.2kΩ, 1/4W, ± 5%	1	
R203	ERD25TJ683	Carbon, 68kΩ, 1/4W, ± 5%	1	
R204	ERD25TJ683	Carbon, 68kΩ, 1/4W, ± 5%	1	
R205	ERD25TJ332	Carbon, 3.3kΩ, 1/4W, ± 5%	1	
R206	ERD25TJ332	Carbon, 3.3kΩ, 1/4W, ± 5%	1	
R207	ERD25TJ683	Carbon, 68kΩ, 1/4W, ± 5%	1	
R208	ERD25TJ124	Carbon, 120kΩ, 1/4W, ± 5%	1	
R209	ERD25TJ273	Carbon, 27kΩ, 1/4W, ± 5%	1	
R210	ERD25TJ273	Carbon, 27kΩ, 1/4W, ± 5%	1	
R211	ERD25TJ820	Carbon, 82Ω, 1/4W, ± 5%	1	
R212	ERD25TJ820	Carbon, 82Ω, 1/4W, ± 5%	1	
R213	ERD25TJ151	Carbon, 150Ω, 1/4W, ± 5%	1	
R214	ERD25TJ151	Carbon, 150Ω, 1/4W, ± 5%	1	
R215	ERD25TJ393	Carbon, 39kΩ, 1/4W, ± 5%	1	
R216	ERD25TJ393	Carbon, 39kΩ, 1/4W, ± 5%	1	
R217	ERD25TJ223	Carbon, 22kΩ, 1/4W, ± 5%	1	
R218	ERD25TJ223	Carbon, 22kΩ, 1/4W, ± 5%	1	
R219	ERD25TJ330	Carbon, 33Ω, 1/4W, ± 5%	1	
R220	ERD25TJ330	Carbon, 33Ω, 1/4W, ± 5%	1	
R221	ERD14FJ101	Carbon, 100Ω, 1/4W, ± 5%	1	
R222	ERD14FJ101	Carbon, 100Ω, 1/4W, ± 5%	1	
R223	ERD50TJ332	Carbon, 3.3kΩ, 1/2W, ± 5%	1	
R224	ERD50TJ332	Carbon, 3.3kΩ, 1/2W, ± 5%	1	
R225	ERD50TJ332	Carbon, 3.3kΩ, 1/2W, ± 5%	1	
R226	ERD50TJ332	Carbon, 3.3kΩ, 1/2W, ± 5%	1	
R227	ERD25TJ272	Carbon, 2.7kΩ, 1/4W, ± 5%	1	
R228	ERD25TJ272	Carbon, 2.7kΩ, 1/4W, ± 5%	1	
R229	ERD25TJ121	Carbon, 120Ω, 1/4W, ± 5%	1	
R230	ERD25TJ121	Carbon, 120Ω, 1/4W, ± 5%	1	
R231	ERD25TJ151	Carbon, 150Ω, 1/4W, ± 5%	1	
R232	ERD25TJ151	Carbon, 150Ω, 1/4W, ± 5%	1	
R233	ERD14FJ102	Carbon, 1kΩ, 1/4W, ± 5%	1	
R234	ERD14FJ102	Carbon, 1kΩ, 1/4W, ± 5%	1	
R235	ERD14FJ151	Carbon, 150Ω, 1/4W, ± 5%	1	
R236	ERD14FJ151	Carbon, 150Ω, 1/4W, ± 5%	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R237	ERX2ANJR33	Metal Film, 0.33Ω, 2W, ± 5%	1	
R238	ERX2ANJR33	Metal Film, 0.33Ω, 2W, ± 5%	1	
R239	ERX2ANJR33	Metal Film, 0.33Ω, 2W, ± 5%	1	
R240	ERX2ANJR33	Metal Film, 0.33Ω, 2W, ± 5%	1	
R241	ERX1ANJ4R7	Metal Film, 4.7Ω, 1W, ± 5%	1	
R242	ERX1ANJ4R7	Metal Film, 4.7Ω, 1W, ± 5%	1	
R243	ERG1ANJ331	Metal Film, 330Ω, 1W, ± 5%	1	
R244	ERG1ANJ331	Metal Film, 330Ω, 1W, ± 5%	1	
R245	ERD25TJ181	Carbon, 180Ω, 1/4W, ± 5%	1	
R246	ERD25TJ181	Carbon, 180Ω, 1/4W, ± 5%	1	
R247	ERD14FJ4R7	Carbon, 4.7Ω, 1/4W, ± 5%	1	
R248	ERD14FJ4R7	Carbon, 4.7Ω, 1/4W, ± 5%	1	
R249	ERD14FJ2R2	Carbon, 2.2Ω, 1/4W, ± 5%	1	
R251	ERD25TJ392	Carbon, 39kΩ, 1/4W, ± 5%	1	
R252	ERD25TJ392	Carbon, 39kΩ, 1/4W, ± 5%	1	
R253	ERD14FJ4R7	Carbon, 4.7Ω, 1/4W, ± 5%	1	
R254	ERD14FJ4R7	Carbon, 4.7Ω, 1/4W, ± 5%	1	
R255	ERD25TJ183	Carbon, 18kΩ, 1/4W, ± 5%	1	
R256	ERD25TJ183	Carbon, 18kΩ, 1/4W, ± 5%	1	
R257	ERD25TJ153	Carbon, 15kΩ, 1/4W, ± 5%	1	
R258	ERD25TJ153	Carbon, 15kΩ, 1/4W, ± 5%	1	
R259	ERD25TJ152	Carbon, 15kΩ, 1/4W, ± 5%	1	
R260	ERD25TJ152	Carbon, 15kΩ, 1/4W, ± 5%	1	
R261	ERD25TJ682	Carbon, 68kΩ, 1/4W, ± 5%	1	
R262	ERD25TJ682	Carbon, 68kΩ, 1/4W, ± 5%	1	
R263	ERD25TJ822	Carbon, 8.2kΩ, 1/4W, ± 5%	1	
R264	ERD25TJ822	Carbon, 8.2kΩ, 1/4W, ± 5%	1	
R265	ERD25TJ103	Carbon, 10kΩ, 1/4W, ± 5%	1	
R266	ERD25TJ103	Carbon, 10kΩ, 1/4W, ± 5%	1	
R267	ERD25TJ681	Carbon, 680Ω, 1/4W, ± 5%	1	
R268	ERD25TJ681	Carbon, 680Ω, 1/4W, ± 5%	1	
R301	ERG2ANJ152	Metal Film, 15kΩ, 2W, ± 5%	1	
R302	ERG2ANJ152	Metal Film, 15kΩ, 2W, ± 5%	1	
R303	ERD25TJ124	Carbon, 120kΩ, 1/4W, ± 5%	1	
R304	ERD25TJ683	Carbon, 68kΩ, 1/4W, ± 5%	1	
R305	ERD25TJ224	Carbon, 220kΩ, 1/4W, ± 5%	1	
R306	ERD25TJ683	Carbon, 68kΩ, 1/4W, ± 5%	1	
R307	ERD25TJ471	Carbon, 470Ω, 1/4W, ± 5%	1	
R308	ERD25TJ103	Carbon, 10kΩ, 1/4W, ± 5%	1	
R309	ERD50TJ222	Carbon, 2.2kΩ, 1/2W, ± 5%	1	
R351	ERD12FJ331	Carbon, 330Ω, 1/2W, ± 5%	1	
R352	ERD12FJ331	Carbon, 330Ω, 1/2W, ± 5%	1	
R353	ERD25TJ123	Carbon, 12kΩ, 1/4W, ± 5%	1	
R354	ERD25TJ123	Carbon, 12kΩ, 1/4W, ± 5%	1	
R355	ERD25TJ121	Carbon, 120Ω, 1/4W, ± 5%	1	
R356	ERD25TJ121	Carbon, 120Ω, 1/4W, ± 5%	1	
R357	ERD25TJ122	Carbon, 1.2kΩ, 1/4W, ± 5%	1	
R358	ERD25TJ122	Carbon, 1.2kΩ, 1/4W, ± 5%	1	
R402	ERG1ANJ222	Metal Film, 2.2kΩ, 1W, ± 5%	1	
R403	ERD12FJ471	Carbon, 470Ω, 1/2W, ± 5%	1	
R404	ERG2ANJ561	Metal Film, 560Ω, 2W, ± 5%	1	

VARIABLE RESISTORS

Volume Control, 250kΩ (B)
Balance Control, 200kΩ (G)

VR151
VR152

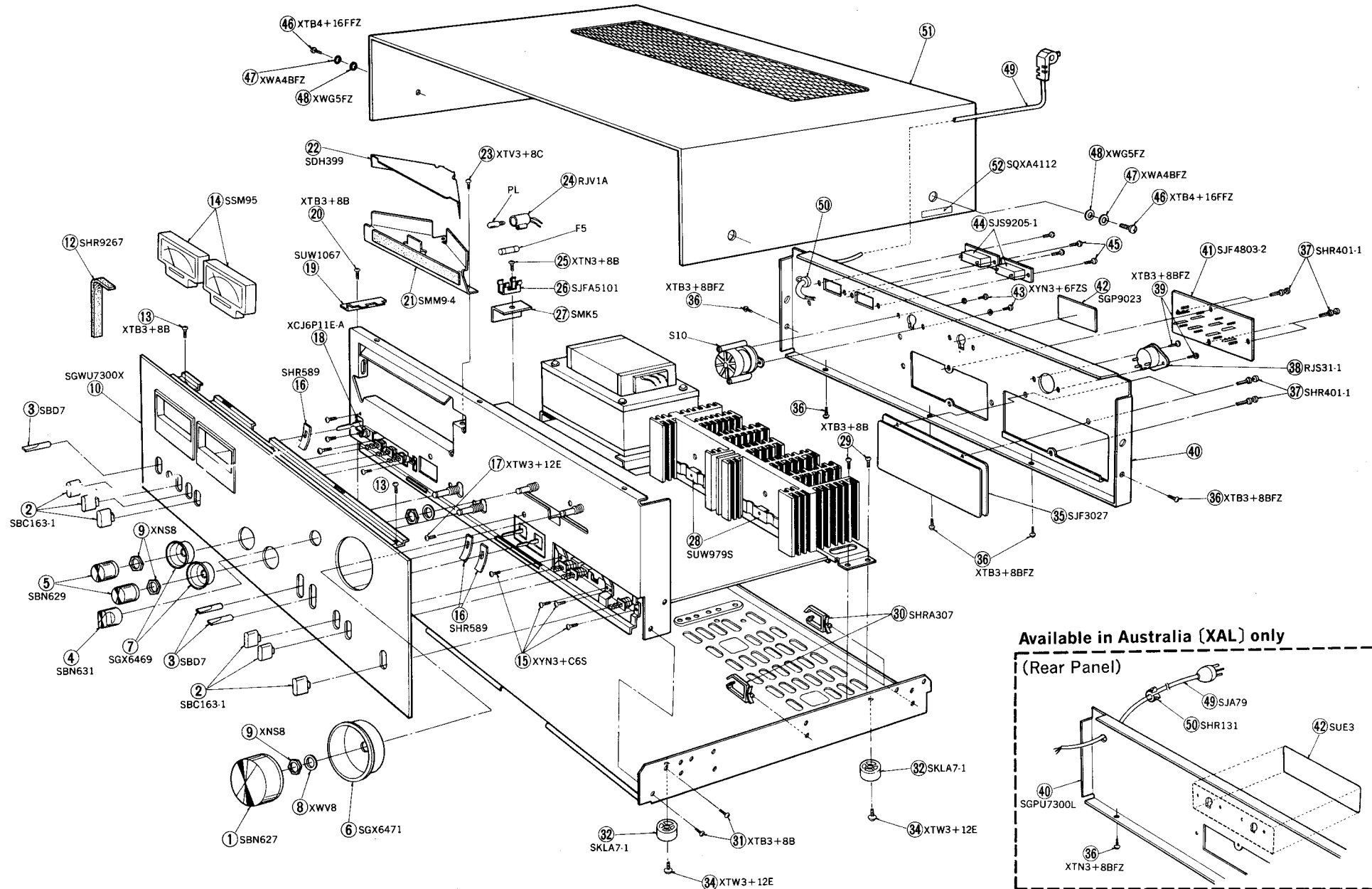
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EVHGSF25G25

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
VR251, 252	EWKGYA033C15	Bass & Treble Control, 100k Ω (C)	2	
CAPACITORS				
C2	ECEA50V1	Electrolytic, 1 μ F, 50V	1	
C101	ECEA50M3R3R	Electrolytic, 3.3 μ F, 50V	1	
C102	ECEA50M3R3R	Electrolytic, 3.3 μ F, 50V	1	
C103	ECCD2H121KB	Ceramic, 120pF, 500V, $\pm 10\%$	1	
C104	ECCD2H121KB	Ceramic, 120pF, 500V, $\pm 10\%$	1	
C109	ECKD2H681KB	Ceramic, 680pF, 500V, $\pm 10\%$	1	
C110	ECKD2H681KB	Ceramic, 680pF, 500V, $\pm 10\%$	1	
C111	ECCD1H101K	Ceramic, 100pF, 50V, $\pm 10\%$	1	
C112	ECCD1H101K	Ceramic, 100pF, 50V, $\pm 10\%$	1	
C113	ECEA10V33	Electrolytic, 33 μ F, 10V	1	
C114	ECEA10V33	Electrolytic, 33 μ F, 10V	1	
C115	ECKD2H391KB	Ceramic, 390pF, 500V, $\pm 10\%$	1	
C116	ECKD2H391KB	Ceramic, 390pF, 500V, $\pm 10\%$	1	
C117	ECQM1H472JZ	Polyester, 0.0047 μ F, 50V, $\pm 5\%$	1	
C118	ECQM1H472JZ	Polyester, 0.0047 μ F, 50V, $\pm 5\%$	1	
C119	ECQM1H183JZ	Polyester, 0.018 μ F, 50V, $\pm 5\%$	1	
C120	ECQM1H183JZ	Polyester, 0.018 μ F, 50V, $\pm 5\%$	1	
C121	ECEA50M1R	Electrolytic, 1 μ F, 50V	1	
C122	ECEA50M1R	Electrolytic, 1 μ F, 50V	1	
C123	ECCD1H820K	Ceramic, 82pF, 50V, $\pm 10\%$	1	
C152	ECCD1H820K	Ceramic, 82pF, 50V, $\pm 10\%$	1	
C153	ECQM1H153KZ	Polyester, 0.015 μ F, 50V, $\pm 10\%$	1	
C154	ECQM1H153KZ	Polyester, 0.015 μ F, 50V, $\pm 10\%$	1	
C155	ECQM1H392KZ	Polyester, 0.0039 μ F, 50V, $\pm 10\%$	1	
C156	ECQM1H392KZ	Polyester, 0.0039 μ F, 50V, $\pm 10\%$	1	
C201	ECEA50M1R	Electrolytic, 1 μ F, 50V	1	
C202	ECEA50M1R	Electrolytic, 1 μ F, 50V	1	
C203	ECCD1H330K	Ceramic, 33pF, 50V, $\pm 10\%$	1	
C204	ECCD1H330K	Ceramic, 33pF, 50V, $\pm 10\%$	1	
C205	ECCD1H390K	Ceramic, 39pF, 50V, $\pm 10\%$	1	
C206	ECCD1H390K	Ceramic, 39pF, 50V, $\pm 10\%$	1	
C207	ECCD1H010C	Ceramic, 1pF, 50V, $\pm 0.25\text{pF}$	1	
C208	ECCD1H010C	Ceramic, 1pF, 50V, $\pm 0.25\text{pF}$	1	
C209	ECEA6V33	Electrolytic, 33 μ F, 6.3V	1	
C210	ECEA6V33	Electrolytic, 33 μ F, 6.3V	1	
C211	ECEA35V47V	Electrolytic, 47 μ F, 35V	1	
C212	ECEA35V47V	Electrolytic, 47 μ F, 35V	1	
C213	ECEA50V47V	Electrolytic, 47 μ F, 50V	1	
C214	ECEA50V47V	Electrolytic, 47 μ F, 50V	1	
C215	ECCD1H102PE	Ceramic, 0.001 μ F, 50V, $\pm 100\%$	1	
C216	ECCD1H102PE	Ceramic, 0.001 μ F, 50V, $\pm 100\%$	1	
C217	ECCD1H101K	Ceramic, 100pF, 50V, $\pm 10\%$	1	
C218	ECCD1H101K	Ceramic, 100pF, 50V, $\pm 10\%$	1	
C219	ECKD2H221KB	Ceramic, 220pF, 500V, $\pm 10\%$	1	
C220	ECKD2H221KB	Ceramic, 220pF, 500V, $\pm 10\%$	1	
C221	ECQM1H683KZ	Polyester, 0.068 μ F, 50V, $\pm 10\%$	1	
C222	ECQM1H683KZ	Polyester, 0.068 μ F, 50V, $\pm 10\%$	1	
C223	ECCD1H102PE	Ceramic, 0.001 μ F, 50V, $\pm 100\%$	1	
C224	ECCD1H102PE	Ceramic, 0.001 μ F, 50V, $\pm 100\%$	1	
C251	ECQM1H153KZ	Polyester, 0.015 μ F, 50V, $\pm 10\%$	1	
C252	ECQM1H153KZ	Polyester, 0.015 μ F, 50V, $\pm 10\%$	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C253	ECQM1H154KZ	Polyester, 0.15 μ F, 50V, $\pm 10\%$	1	
C254	ECQM1H154KZ	Polyester, 0.15 μ F, 50V, $\pm 10\%$	1	
C255	ECQM1H182KZ	Polyester, 0.0018 μ F, 50V, $\pm 10\%$	1	
C256	ECQM1H182KZ	Polyester, 0.0018 μ F, 50V, $\pm 10\%$	1	
C257	ECQM1H273KZ	Polyester, 0.027 μ F, 50V, $\pm 10\%$	1	
C258	ECQM1H273KZ	Polyester, 0.027 μ F, 50V, $\pm 10\%$	1	
C259	ECCD1H470K	Ceramic, 47pF, 50V, $\pm 10\%$	1	
C260	ECCD1H470K	Ceramic, 47pF, 50V, $\pm 10\%$	1	
C261	ECEA6V47	Electrolytic, 47 μ F, 6.3V	1	
C262	ECEA6V47	Electrolytic, 47 μ F, 6.3V	1	
C301	ECEA63V33V	Electrolytic, 33 μ F, 63V	1	
C302	ECEA25V33V	Electrolytic, 33 μ F, 25V	1	
C303	ECEA35V47V	Electrolytic, 47 μ F, 35V	1	
C304	ECEA35V10	Electrolytic, 10 μ F, 35V	1	
C351	ECEA50V10V	Electrolytic, 10 μ F, 50V	1	
C352	ECEA50V10V	Electrolytic, 10 μ F, 50V	1	
C353	ECEA50V10V	Electrolytic, 10 μ F, 50V	1	
C354	ECEA50V10V	Electrolytic, 10 μ F, 50V	1	
C401	ECET42R822S	Electrolytic, 8200 μ F, 42V	1	○
C402	ECET42R822S	Electrolytic, 8200 μ F, 42V	1	○
C403	ECEA25V220V	Electrolytic, 220 μ F, 25V	1	
C404	ECEA16V1000A	Electrolytic, 1000 μ F, 16V	1	
FUSES				
F1	XBA2C31TR0	Fuse, 3.15AT, Power Source (Except set for [XAL])	1	
F1 [XAL] only	XBA2C16TR0	Fuse, 1.6AT, Power Source (only set for [XAL])	1	
F2	XBA2C06TR0	Fuse, 500mA, Power Source	1	
F3, 4	XBA2C31SS0	Fuse, 3.15A, Circuit Protection	2	
F5	XBA2C16TR0	Fuse, 1.6AT, Power Source (Except set for [XAL])	1	
COMPONENT COMBINATION				
M401	RXAF103P22HD	Component Combination, 0.01 μ F (X2)	1	
PILOT LAMP				
PL1	XAMR53K	Meter Lamp (6.3V 0.25A)	1	
SWITCHES				
S1, 2	SSH235S	Switch, Input Selector	1	
S3, 4	SSL23	Switch, Recording Mode & Tape Monitor	1	
S5	SSH67S	Switch, Loudness	1	
S6, 7, 8	SSH329S	Switch, Filter, Meter & Speaker	1	
S10	SSL37S	Switch, Power	1	○
S9	SSR53S	Switch, Voltage Selector (Except set for [XAL])	1	
CABINET and CHASSIS PARTS				
1	SBN627	Knob, Volume Control	1	
2	SBC163-1	Button, Push Switches	6	○
3	SBD7	Knob, Lever Switches	3	
4	SBN631	Knob, Balance Control	1	
5	SBN629	Knob, Bass & Treble	2	
6	SGX6471	Ornament, Volume Knob	1	
7	SGX6469	Ornament, Bass & Treble Knobs	2	

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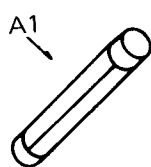
EXPLODED VIEWS



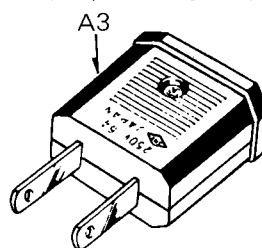
Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
8	XWV8	Washer (Spring), Balance & Volume	2	
9	XNS8	Nut, Bass, Treble, Balance & Volume	4	
10	SGWU7300X	Panel, Front Ass'y	1	○
12	SHR9267	Shading Cloth	1	
13	XTB3+8B	Screw, Front Panel M'tg	2	
14	SSM95	Meter, Output Level	2	
15	XYN3+C6S	Screw, Push Switches & Power Switch M'tg	8	
16	SHR589	Bracket, Power, Tape & Rec Mode Switch	3	○
17	XTW3+12E	Screw, Tape & Rec Mode Switch M'tg	1	
18	XCJ6P11E-A	Jack, Headphones	1	
19	SUW1067	Bracket, Printed Circuit Board	1	* ○
20	XTB3+8B	Screw, Printed Circuit Board M'tg	1	
21	SMM9-4	Bracket, Meter	1	*
22	SDH399	Reflector Plate	1	* ○
23	XTV3+8C	Screw, Meter Bracket M'tg	1	
24	RJV1A	Holder, Meter Lamp	1	
25	XTN3+8B	Screw, Fuse Holder M'tg (Except set for [XA])	1	
26	SJFA5101	Holder, Fuse (Except set for [XAL])	1	
27	SMK5	Bracket, Fuse Holder (Except set for [XAL])	1	*
28	SUW979S	Bracket, Power Transistor	2	*
29	XTB3+8B	Screw, Printed Circuit Board M'tg	2	
30	SHRA307	Lead Clamp	2	
31	XTB3+8B	Screw, Chassis M'tg (Left & Right Side)	4	
32	SKLA7-1	Foot, Set Bottom Board	4	
34	XTW3+12E	Screw, Foot M'tg	4	
35	SJF3027	Terminal, Input	1	○
36	XTB3+8BFZ	Screw, Rear Panel M'tg	5	
37	SHR401-1	Latch, Input & Speaker Terminal M'tg	7	
38	RJS31-1	Socket, Tape Deck Connection (DIN)	1	
39	XTB3+8BFZ	Screw, DIN Socket M'tg	2	
40 [XG, XGH, XGF]	SGP670A	Rear Panel	1	○
40 [XA]	SGP670-1A	Rear Panel	1	○
40 [XE]	SGP670-2A	Rear Panel	1	○
40 [XSD, XSW]	SGPU7300D	Rear Panel, SGP670A with Name Plate (SGT13651)	1	○
40 [XAL]	SGPU7300L	Rear Panel, SGP670-2A with Name Plate (SGT13650)	1	○
41	SJF4803-2	Terminal, Speakers	1	○
42 [XAL] only	SUE3	Cover Plate, Rear Panel Hole	1	
42	SGP9023	Cover Plate, Rear Panel Hole (Except set for [XAL])	1	
43	XYN3+6FZS	Screw, Voltage Selector Switch M'tg (Except set for [XAL])	2	
44 [XA] only	SJS9205-1	Socket, AC Power (only set for [XA])	2	
45 [XA] only	XTN3+8BFZ	Screw, AC Outlet M'tg (only set for [XA])	4	
46	XTB4+16FFZ	Screw, Cabinet M'tg	4	
47	XWA4BFZ	Washer (Spring), Cabinet	4	
48	XWG5FZ	Washer, Cabinet	4	
49 [XA, XG, XGF]	SJA97	AC Cord, with Plug	1	
49 [XAL]	SJA79	AC Cord, with Plug	1	
49 [XE]	SJA73	AC Cord	1	
49 [XSD, XGH]	SJA81	AC Cord, with Plug	1	
49 [XSW]	SJA68	AC Cord, with Plug	1	
50	SHR127	Bushing, AC Cord (Except set for [XAL] & [XE])	1	
50 [XAL, XE]	SHR131	Bushing, AC Cord	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
51	SKA8253W	Cabinet (Except set for [XE]), Black	1	○
51 [XE] only	SKA8254W	Cabinet, Brown Wooden	1	○
52	SQXA4112	Caution Label, Cabinet Screw (Except set for [XAL])	1	
ACCESSORIES				
A1	XBA2C31SS0	Fuse, 3.15A (250V) Circuit Protection	2	
A2	RJP5	Pin Plug	4	
A3 [XA] only	SJP5213	Plug Adapter, Power	1	
A4 [XA] only	SJP5215	Plug Adapter, Power	1	
PACKING PARTS				
P1	SPP495	Polyethylene Bag	1	○
P2	SPS971	Pad, Right Upper Side	1	○
P3	SPS969	Pad, Right Lower Side	1	○
P4	SPS967	Pad, Left Upper Side	1	○
P5	SPS965	Pad, Left Lower Side	1	○
P6	SPG987	Carton Box	1	○
P6 [XE] only	SPG989	Carton Box	1	○
P6 [XGF] only	SGP1061	Carton Box	1	○
P7	SQF1511	Printed Matter, Instructions Book (Except Ser for [XA] [XE] & [XAL])	1	○
P7 [XA][XE] only	SQF1507	Printed Matter, (Instructions Book)	1	○
P7 [XAL]	SQF1509	Printed Matter, (Instructions Book)	1	○
The model [XA] is available in Asia, Latin America, Middle East and Africa. The model [XAL] is available in Australia only. The model [XG] is available in European only. The model [XGH] is available in Holland only. The model [XSD] is available in Scandinavia only. The model [XSW] is available in Switzerland only. The model [XE] is available in England only. The model [XGF] is available in France only.				

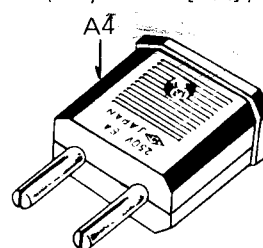
■ ACCESSORIES



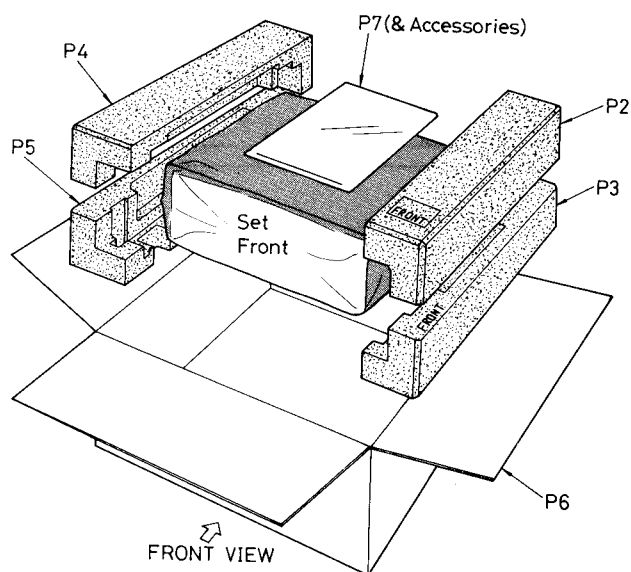
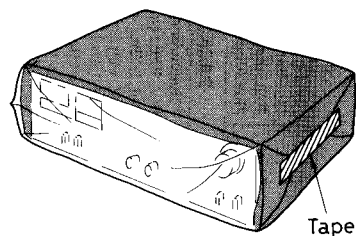
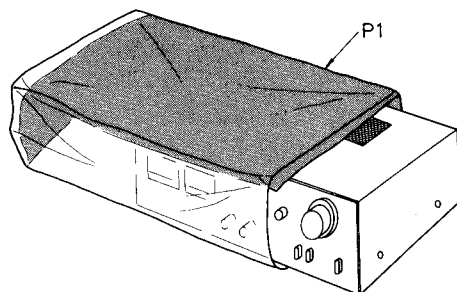
(only set for [XA])



(only set for [XA])



■ PACKINGS



FRONT VIEW