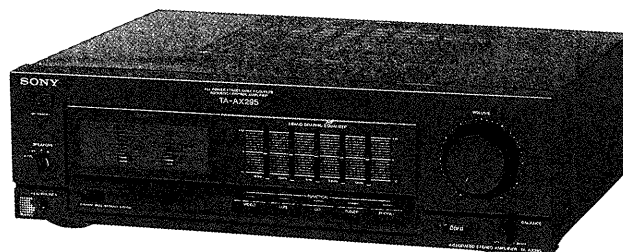


TA-AX295

SERVICE MANUAL

*US Model
Canadian Model
E Model*



This set is the amplifier Section in
SEN-290 (CND, E)/SEN-390 (US).

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8 ohm loads both channels driven, from 20—20,000 Hz;
rated 105 watts per channel minimum RMS power, with no
more than 0.9% total harmonic distortion from 250
milliwatts to rated output.

Amplifier section

Inputs

	Sensitivity	Impedance
PHONO	3.0 mV	50 kilohms
TUNER/CD/ VIDEO/TAPE	250 mV	50 kilohms

Output

REC OUT: Voltage 150 mV, impedance 1 kohms
SPEAKER: Accepts speaker of 8 to 16 ohms
HEADPHONES: Accepts headphones with low and
high impedance

Frequency response

PHONO: RIAA curve
TUNER/CD/VIDEO/TAPE: 30 Hz — 30 kHz ± 3 dB

GRAPHIC EQUALIZER controls

Boost/cut range:
 ± 8 dB (100 Hz, 330 Hz, 1 kHz, 3.3 kHz)
 ± 6 dB (10 kHz)

Dimensions

Approx. 430 x 130 x 355 mm (w/h/d)
(17 x 5 1/8 x 14 inches)

Weight

Approx. 8.5 kg (18 lb 12 oz)

General

Power requirements 120 V AC, 60 Hz (US, Canadian)
120/220/240 V AC, 50/60 Hz (E)

AC outlet 1 switched, 100 W max.

Design and specifications subject to change without notice.

INTEGRATED STEREO AMPLIFIER
SONY®



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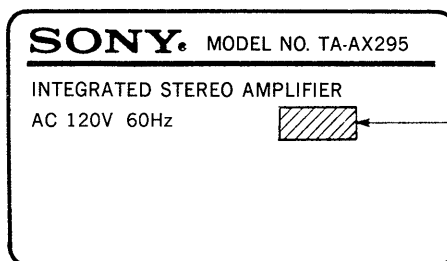
<i>Section</i>	<i>Title</i>	<i>Page</i>
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2. DISASSEMBLY		
2-1.	Panel Assy, Front	4
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SAFETY-RELATED COMPONENT WARNING!!

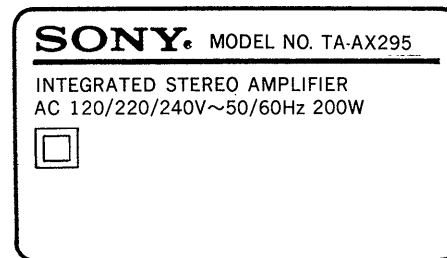
COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MODEL IDENTIFICATION

—Model Number Label—



{ US model: 200W
Conadian model: 425VA



← E model

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-

voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

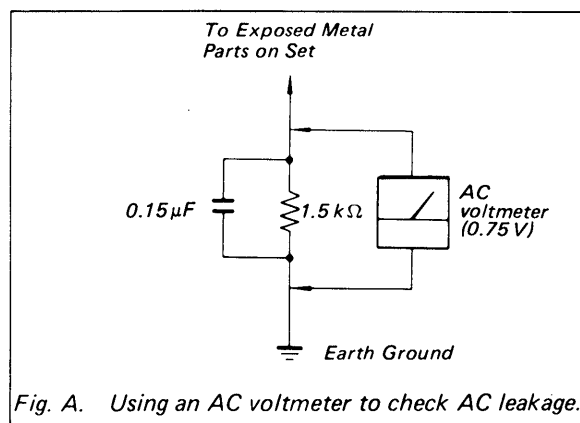
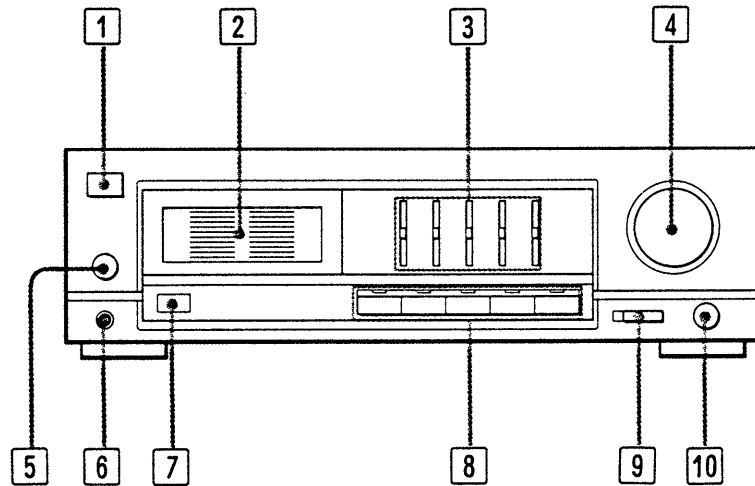


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1 GENERAL

1-1. LOCATION OF CONTROLS



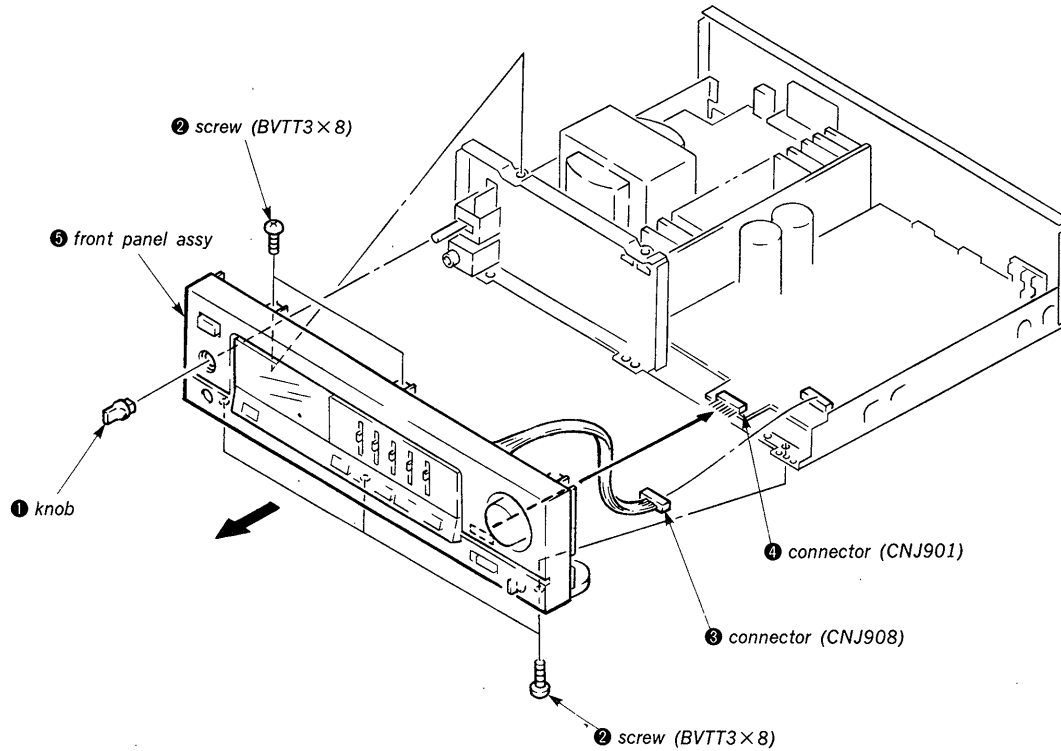
- 1 SYSTEM POWER switch
- 2 5 BAND Spectrum analyzer display
- 3 5 BAND GRAPHIC EQUALIZER controls
- 4 VOLUME control
- 5 SPEAKERS selector

- 6 HEADPHONES jack (stereo phone jack)
- 7 Remote control sensor
- 8 Function selectors
- 9 DBFB (Dynamic Bass Feedback) switch and indicator
- 10 BALANCE control

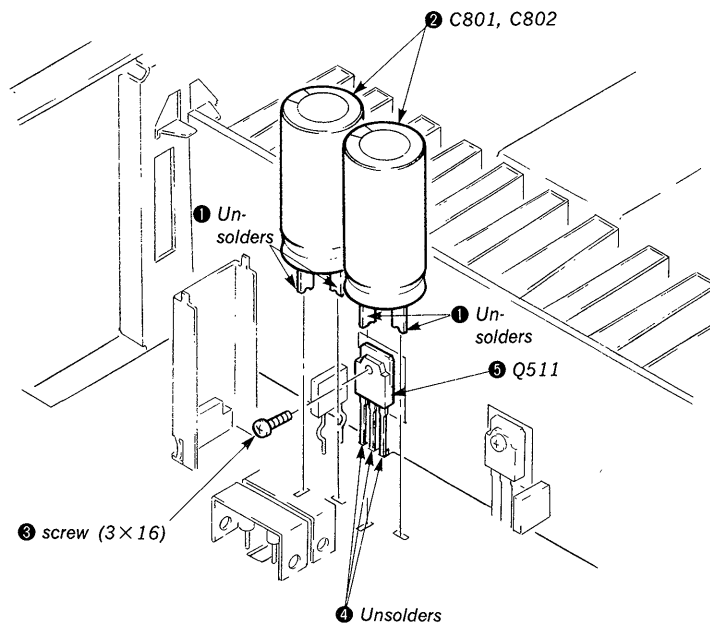
SECTION 2 DISASSEMBLY

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

2-1. PANEL ASSY, FRONT



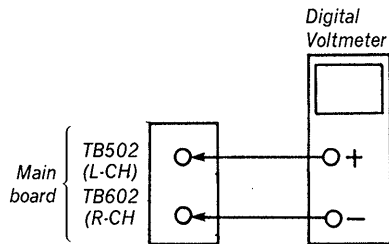
2-2. REMOVAL OF THE Q511



SECTION 3 ELECTRICAL ADJUSTMENT

Bias Adjustment

Procedure :

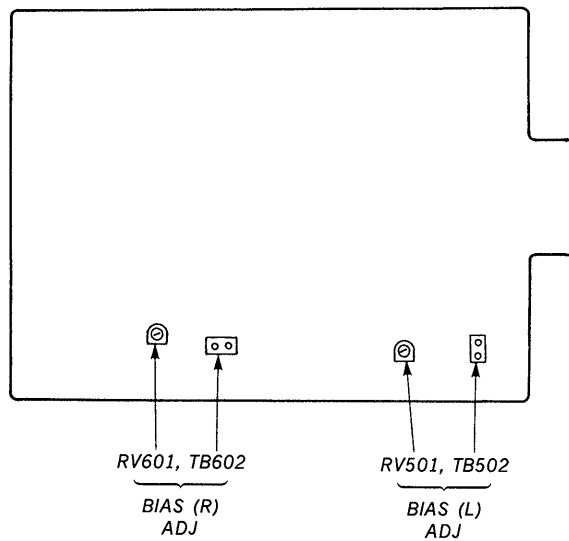


1. Turn ON the power by connecting a digital voltmeter with test pins TB502 (L-CH) and TB602 (R-CH).
2. Adjust RV501 (L-CH) and RV601 (R-CH) so that the indicator of digital voltmeter approaches 3mV as much as possible between 0.5 to 3mV when the power is turned ON.

Note : After the adjustment, when the voltage increases up to the stable state in course of time, confirm that the indicator of digital voltmeter indicates less than 6mV.

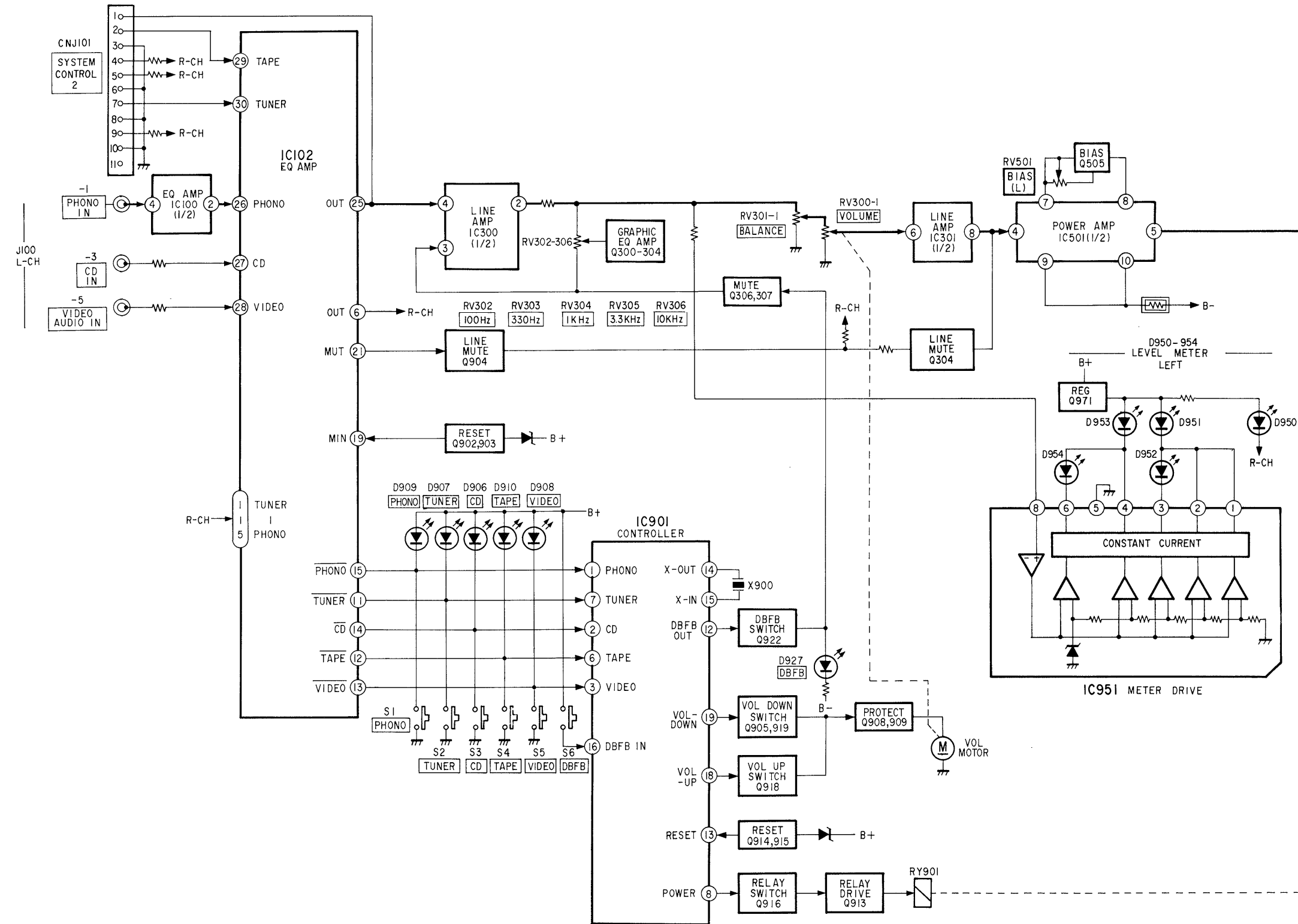
Adjusted value : $3 \pm_{2.5}^0$ mV

Adjustment Location : main board

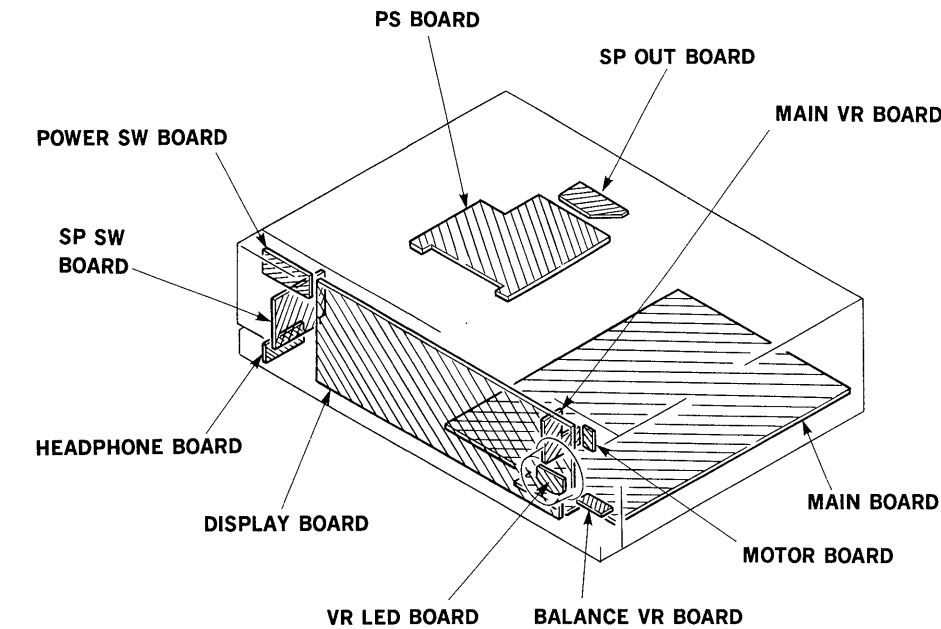


SECTION 4 DIAGRAMS

4-1. BLOCK DIAGRAM

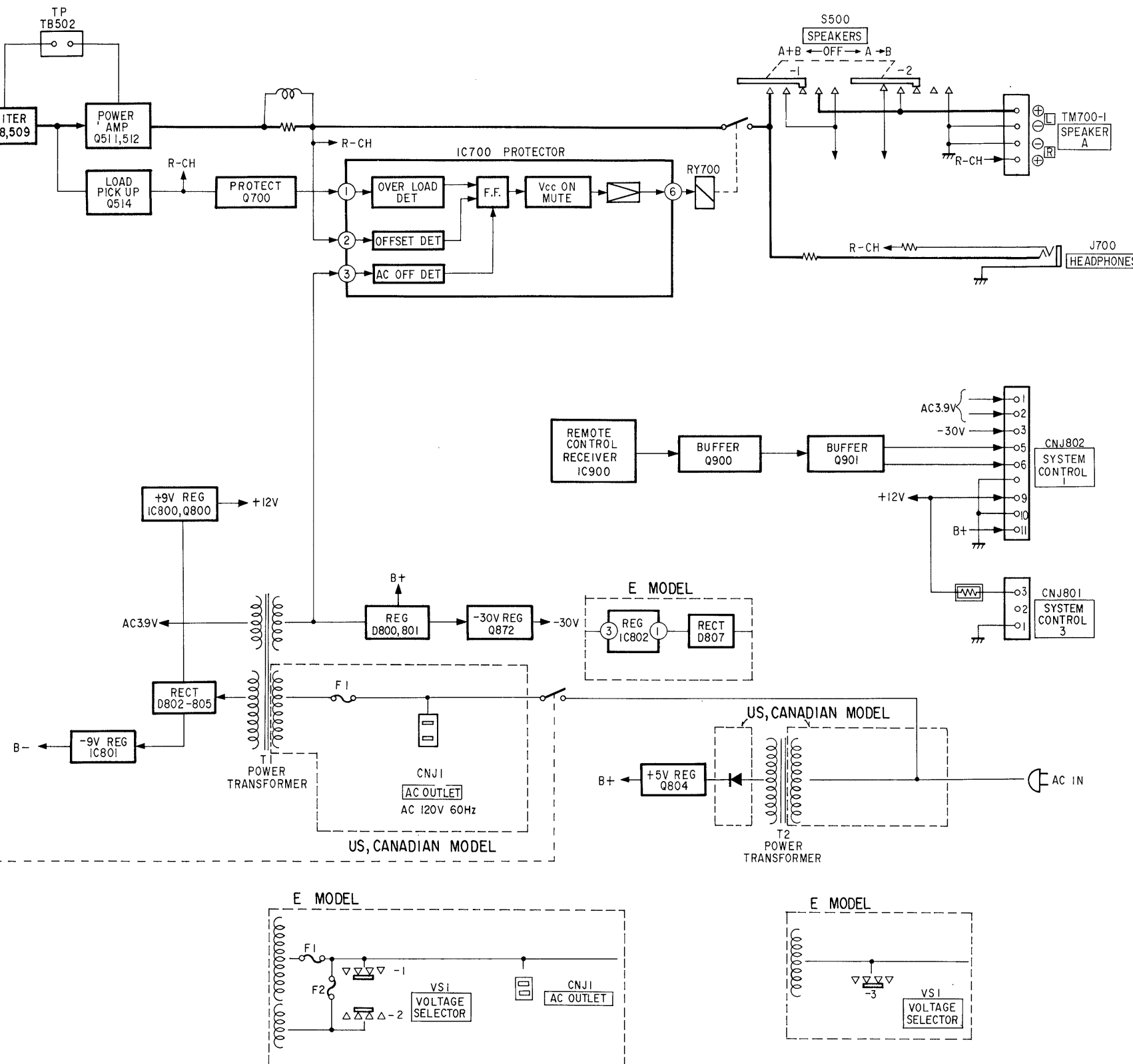


4-2. CIRCUIT BOARDS LOCATION



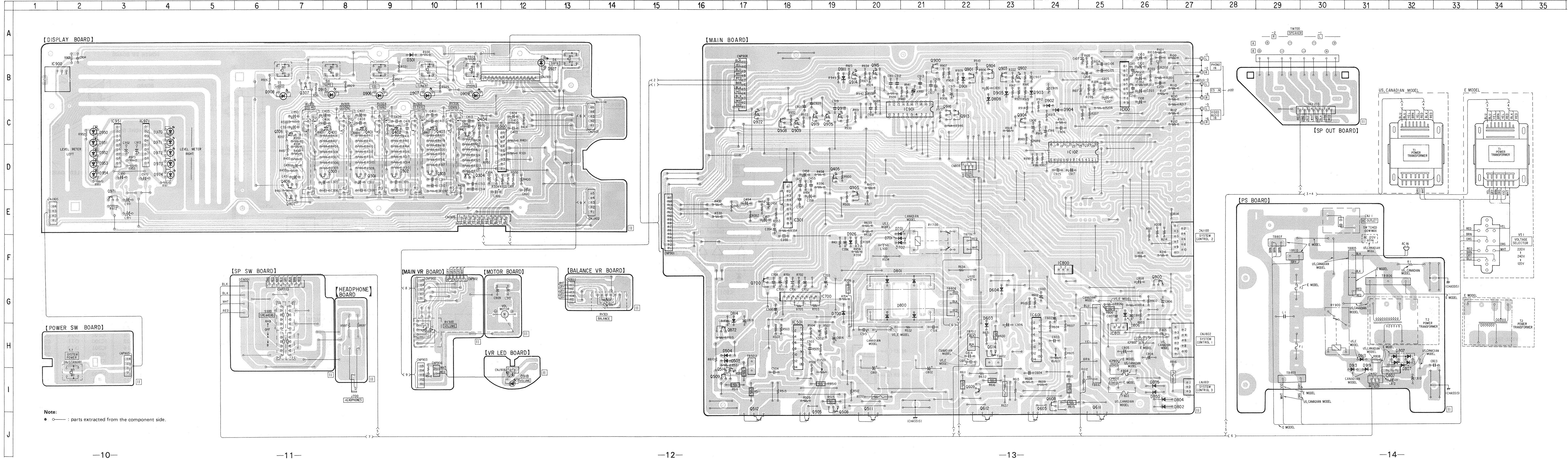
• Semiconductor Location

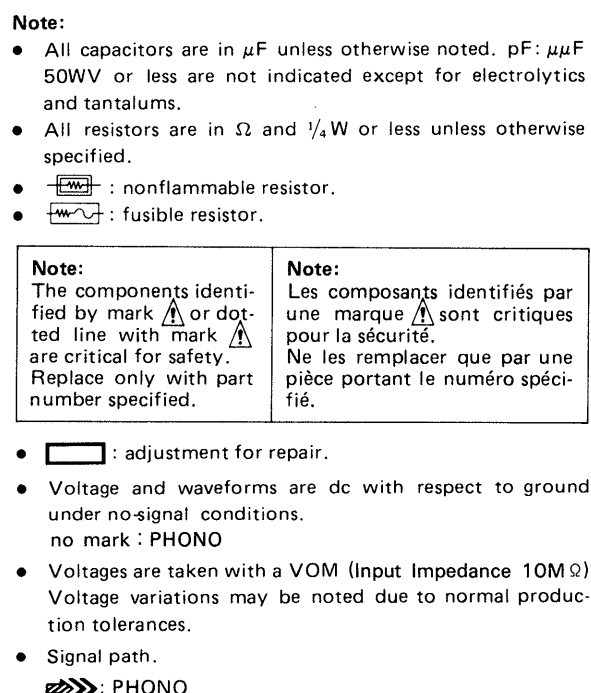
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D301	A-9	D919	H-30	Q303	D-9	Q902	B-23
D503	H-16	D926	E-19	Q304	D-10	Q903	B-22
D504	H-16	D927	A-12	Q305	D-19	Q904	C-23
D603	G-22	D950	C-2	Q306	C-6	Q905	C-18
D604	F-22	D951	C-2	Q307	B-7	Q908	C-17
D700	G-19	D952	C-2	Q400	C-7	Q909	C-18
D701	E-20	D953	D-2	Q401	C-8	Q913	B-21
D702	E-20	D954	D-2	Q402	C-9	Q914	B-19
D800	G-20	D970	C-3	Q403	C-9	Q915	B-19
D801	F-20	D971	C-3	Q404	C-10	Q916	B-21
D802	I-26	D972	C-3	Q405	D-18	Q918	C-19
D803	I-26	D973	D-3	Q406	D-6	Q919	C-18
D804	I-26	D974	D-3	Q407	D-6	Q922	C-17
D805	I-26			Q505	I-18	Q971	D-2
D806	G-25	IC100	B-25	Q508	I-18		
D807	H-31	IC102	C-24	Q509	H-16		
D808	B-22	IC300	C-11	Q511	I-19		
D814	G-16	IC301	D-17	Q512	I-17		
D901	B-21	IC501	G-18	Q514	H-16		
D902	B-23	IC601	G-23	Q605	I-23		
D903	B-23	IC700	G-18	Q608	I-23		
D904	B-23	IC800	F-24	Q609	I-22		
D905	B-22	IC801	G-25	Q611	I-24		
D906	B-8	IC802	H-31	Q612	I-22		
D907	B-9	IC900	B-1	Q614	H-22		
D908	B-6	IC901	B-20	Q700	F-17		
D909	B-10	IC951	C-2	Q800	F-26		
D910	B-7	IC971	C-3	Q804	B-22		
D911	B-19			Q872	G-16		
D913	H-30	Q301	D-8	Q900	A-21		
D918	H-11	Q302	D-9	Q901	B-22		



4-3. PRINTED WIRING BOARDS

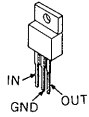
- Refer to page 9 for Semiconductor Location.
- Refer to page 19 for Semiconductor Lead Layouts.



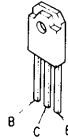


4-5. SEMICONDUCTOR LEAD LAYOUTS

M5F7812



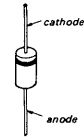
**2SA1491
2SC3855**



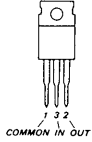
2SD774-34



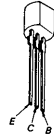
**HZ5ALL
US1060M
1S1585
10E2N**



M5F7909



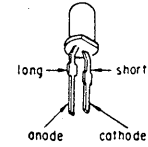
2SB1014



2SK246BL



SEL2210S-C



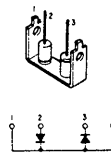
**DTA114ES
DTA124ES
DTC114ES
DTC124ES**



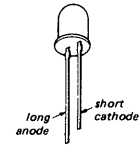
**2SC1841-PA
2SC3622A-L
2SD1387
2SD1388**



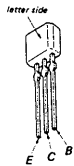
D300



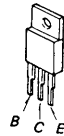
SEL2510C



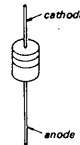
**2SA1175-HFE
2SC2785-HFE**



2SD1585-K

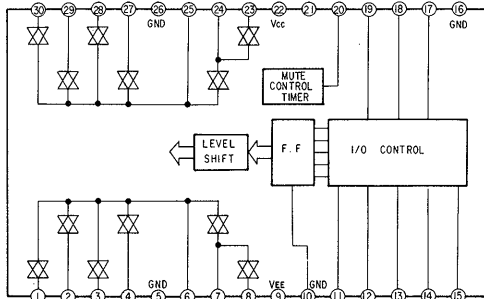


**HZS30-2L
HZS30-3L
UZL-6H2
UZL-7M3**

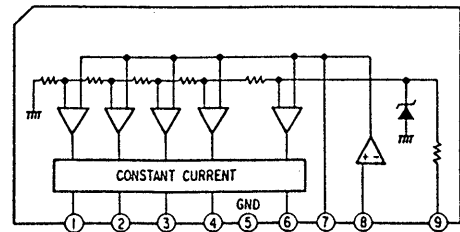


● IC Block Diagrams

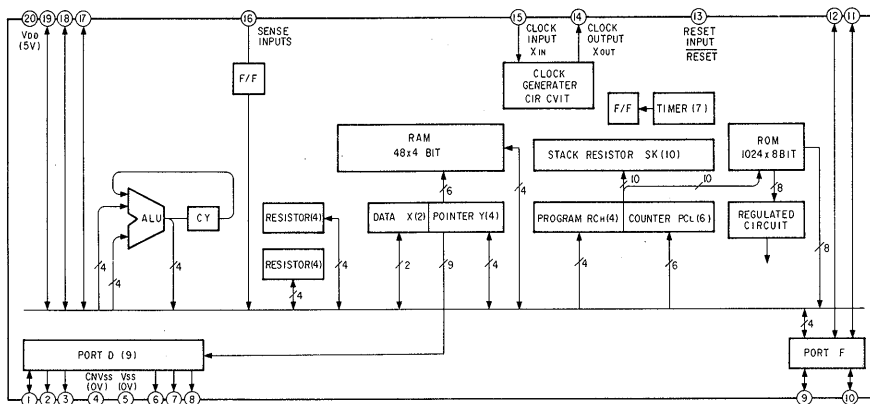
IC102 LC7818



IC951, 971 IR2E31A



IC901 M50761-258P



SECTION 5 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)

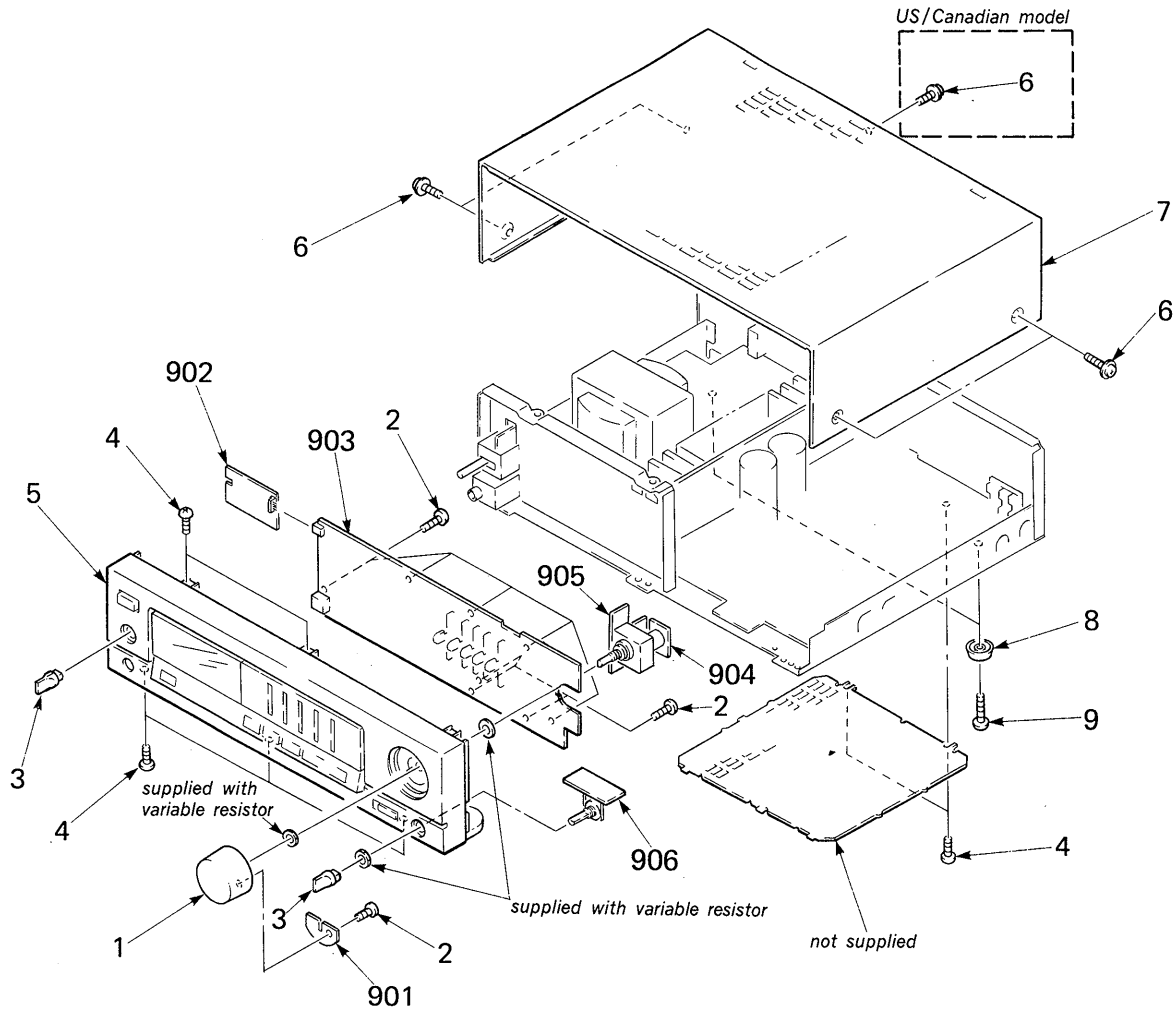
↑
Cabinet's Color

↑
Parts' Color

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

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

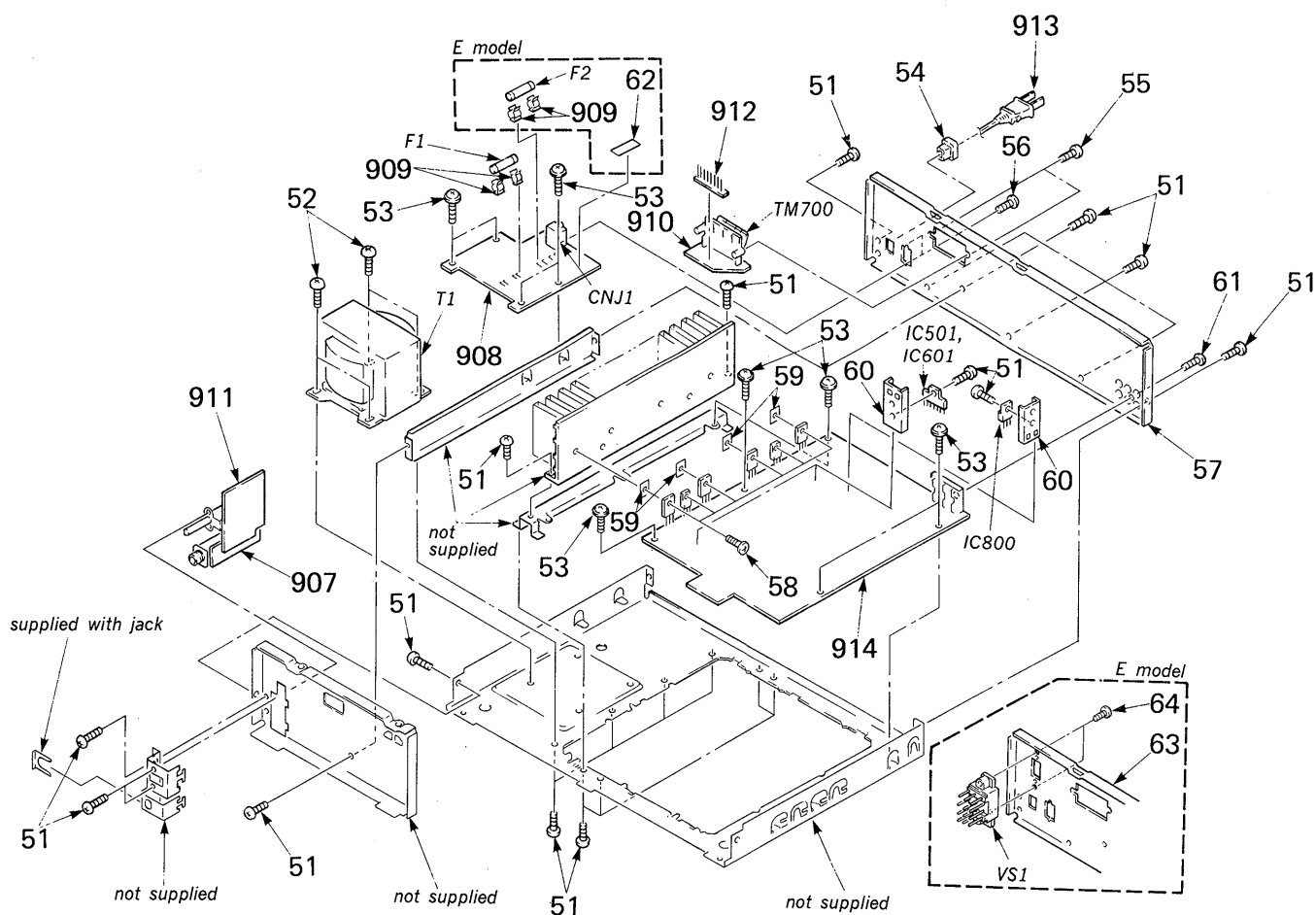
5-1. CASE, FRONT PANEL SECTION



Ref.No	Part No.	Description	Remarks	Ref.No	Part No.	Description	Remarks
1	4-925-121-01	KNOB (V2)		9	7-682-550-04	SCREW +BVTT 3X12 (S)	
2	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S		901	*1-629-955-11	PC BOARD, VR LED	
3	4-908-097-21	KNOB		902	*1-629-956-11	PC BOARD, POWER SW	
4	7-682-548-04	SCREW +BVTT 3X8 (S)		903	*A-4333-108-A	MOUNTED PCB, DISPLAY	
5	X-4911-202-1	PANEL ASSY, FRONT		904	*1-629-952-11	PC BOARD, MOTOR	
6	3-704-366-01	SCREW (CASE) (M3X8)		905	*1-629-953-11	PC BOARD, MAIN VR	
7	4-924-920-61	CASE		906	*1-629-951-11	PC BOARD, BALANCE VR	
8	X-4904-496-1	FOOT ASSY					

SEE ADDITIONAL
INFORMATION

5-2. CHASSIS SECTION



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

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description	Remarks
51	7-682-548-04	SCREW +BVTT 3X8 (S)	
52	7-682-560-04	SCREW +BVTT 4X6 (S)	
53	7-682-548-04	SCREW, TOTSU PTTWH 3X8	
54	3-703-571-11	(E)... BUSHING (S) (4516), CORD	
54	* 3-703-244-00	(EXCEPT FOR E)... BUSHING (2104), CORD	
55	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S	
56	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
57	* 4-927-823-11	(US)... PANEL BACK	
57	* 4-927-823-21	(Canadian)... PANEL BACK	
58	7-682-552-09	SCREW +B 3X16	
59	4-911-232-01	SHEET, INSULATING	
60	* 4-927-815-01	HEAT SINK (S)	
61	7-621-849-00	SCREW, TAPPING	
62	3-701-947-16	(E)... LABEL (T3.15A), FUSE	
63	* 4-927-823-31	(E)... PANEL, BACK	
64	7-685-646-19	SCREW +BVTP 3X8	
907	* 1-629-957-11	PC BOARD, HEADPHONE	
908	* 1-629-959-11	PC BOARD, PS	
909	1-533-183-11	HOLDER, FUSE	
910	* 1-629-954-11	PC BOARD, SP OUT	

Ref.No	Part No.	Description	Remarks
911	* 1-629-958-11	PC BOARD, SP SW	
912	1-508-831-12	H TYPE BASE POST	
913	 1-551-188-XX	(E)... CORD, POWER	
913	 1-557-577-11	(EXCEPT FOR E)... CORD, POWER	
914	* A-4333-125-A	(US)... MOUNTED PCB, MAIN	
914	* A-4333-126-A	(Canadian)... MOUNTED PCB, MAIN	
914	* A-4333-127-A	(E)... MOUNTED PCB, MAIN	
F1	 1-532-237-00	(E)... FUSE, TIME-LAG (T3.15A)	
F1	 1-532-748-11	(EXCEPT FOR E)... FUSE, GLASS TUBE (125V/6.3A)	
F2	 1-532-237-00	(E)... FUSE, TIME-LAG (T3.15A)	
IC501	8-759-144-04	IC UPC1342V	
IC601	8-759-144-04	IC UPC1342V	
IC800	8-759-604-33	IC M5F7812	
T1	 1-449-573-11	(US)... TRANSFORMER, POWER	
T1	 1-449-573-12	(Canadian)... TRANSFORMER, POWER	
T1	 1-449-737-11	(E)... TRANSFORMER, POWER	
TM700	1-536-706-00	TERMINAL BOARD (SPEAKER)	
VS1	 1-571-515-11	(E)... SWITCH, VOLTAGE, CHANGE (VOLTAGE SELECTOR)	

SECTION 6 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 MF.

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.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description				
901	*1-629-955-11	PC BOARD, VR LED				
902	*1-629-956-11	PC BOARD, POWER SW				
903	*A-4333-108-A	MOUNTED PCB, DISPLAY				
904	*1-629-952-11	PC BOARD, MOTOR				
905	*1-629-953-11	PC BOARD, MAIN VR				
906	*1-629-951-11	PC BOARD, BALANCE VR				
907	*1-629-957-11	PC BOARD, HEADPHONE				
908	*1-629-959-11	PC BOARD, PS				
909	1-533-183-11	HOLDER, FUSE				
910	*1-629-954-11	PC BOARD, SP OUT				
911	*1-629-958-11	PC BOARD, SP SW				
912	1-508-831-12	H TYPE BASE POST				
913	Δ 1-551-188-XX	(E)....CORD, POWER				
913	Δ 1-557-577-11	(EXCEPT FOR E)....CORD, POWER				
914	*A-4333-125-A	(US)....MOUNTED PCB, MAIN				
914	*A-4333-126-A	(Canadian)....MOUNTED PCB, MAIN				
914	*A-4333-127-A	(E)....MOUNTED PCB, MAIN				
CAPACITOR						
C1	Δ 1-161-744-00	CERAMIC	0.01MF		400V	
C101	1-162-282-31	CERAMIC	100PF	10%	50V	
C102	1-123-875-11	ELECT	10MF	20%	50V	
C103	1-124-925-11	ELECT	2.2MF	20%	50V	
C105	1-130-480-00	MYLAR	0.0056MF	5%	50V	
C106	1-130-473-00	MYLAR	0.0015MF	5%	50V	
C107	1-124-902-00	ELECT	0.47MF	20%	50V	
C108	1-126-233-11	ELECT	22MF	20%	25V	
C110	1-162-282-31	CERAMIC	100PF	10%	50V	
C201	1-162-282-31	CERAMIC	100PF	10%	50V	
C202	1-123-875-11	ELECT	10MF	20%	50V	
C203	1-124-925-11	ELECT	2.2MF	20%	50V	
C205	1-130-480-00	MYLAR	0.0056MF	5%	50V	
C206	1-130-473-00	MYLAR	0.0015MF	5%	50V	
C207	1-124-902-00	ELECT	0.47MF	20%	50V	
C208	1-126-233-11	ELECT	22MF	20%	25V	
C210	1-162-282-31	CERAMIC	100PF	10%	50V	
C300	1-126-163-11	ELECT	4.7MF	20%	50V	
C303	1-162-211-31	CERAMIC	33PF	5%	50V	
C304	1-126-163-11	ELECT	4.7MF	20%	50V	
C305	1-124-254-00	ELECT	0.68MF	20%	50V	
C306	1-136-163-00	FILM	0.068MF	5%	50V	
C307	1-124-464-11	ELECT	0.22MF	20%	50V	
C308	1-136-155-00	FILM	0.015MF	5%	50V	
C309	1-136-163-00	FILM	0.068MF	5%	50V	
C310	1-161-329-00	CERAMIC	0.0068MF	20%	16V	
C311	1-136-157-00	FILM	0.022MF	5%	50V	
C312	1-161-374-11	CERAMIC	0.0015MF	20%	16V	
C313	1-162-304-31	CERAMIC	0.0047MF	10%	16V	
C314	1-162-292-31	CERAMIC	680PF	10%	50V	
C350	1-124-438-00	ELECT	1MF	20%	50V	
C351	1-124-254-00	ELECT	0.68MF	20%	50V	
C353	1-162-282-31	CERAMIC	100PF	10%	50V	
C354	1-123-875-11	ELECT	10MF	20%	50V	
C355	1-162-211-31	CERAMIC	33PF	5%	50V	

Ref.No	Part No.	Description				
C356	1-124-438-00	ELECT	1MF	20%	50V	
C357	1-124-927-11	ELECT	4.7MF	20%	50V	
C358	1-124-927-11	ELECT	4.7MF	20%	50V	
C400	1-126-163-11	ELECT	4.7MF	20%	50V	
C403	1-162-211-31	CERAMIC	33PF	5%	50V	
C404	1-126-163-11	ELECT	4.7MF	20%	50V	
C405	1-124-254-00	ELECT	0.68MF	20%	50V	
C406	1-136-163-00	FILM	0.068MF	5%	50V	
C407	1-124-464-11	ELECT	0.22MF	20%	50V	
C408	1-136-155-00	FILM	0.015MF	5%	50V	
C409	1-136-163-00	FILM	0.068MF	5%	50V	
C410	1-161-329-00	CERAMIC	0.0068MF	20%	16V	
C411	1-136-157-00	FILM	0.022MF	5%	50V	
C412	1-161-374-11	CERAMIC	0.0015MF	20%	16V	
C413	1-162-304-31	CERAMIC	0.0047MF	10%	16V	
C414	1-162-292-31	CERAMIC	680PF	10%	50V	
C450	1-124-438-00	ELECT	1MF	20%	50V	
C451	1-124-254-00	ELECT	0.68MF	20%	50V	
C453	1-162-282-31	CERAMIC	100PF	10%	50V	
C454	1-123-875-11	ELECT	10MF	20%	50V	
C455	1-162-211-31	CERAMIC	33PF	5%	50V	
C457	1-124-927-11	ELECT	4.7MF	20%	50V	
C458	1-124-927-11	ELECT	4.7MF	20%	50V	
C500	1-124-927-11	ELECT	4.7MF	20%	50V	
C502	1-124-477-11	ELECT	47MF	20%	16V	
C503	1-102-233-00	CERAMIC	33PF	10%	500V	
C504	1-136-163-00	FILM	0.068MF	5%	50V	
C506	1-124-918-11	ELECT	47MF	20%	63V	
C514	1-136-159-00	(EXCEPT FOR Canadian)....FILM	0.033MF	5%	50V	
C514	1-136-163-00	(Canadian)....FILM	0.068MF	5%	50V	
C515	1-136-163-00	(Canadian)....FILM	0.068MF	5%	50V	
C600	1-124-927-11	ELECT	4.7MF	20%	50V	
C602	1-124-477-11	ELECT	47MF	20%	16V	
C603	1-102-233-00	CERAMIC	33PF	10%	500V	
C604	1-136-163-00	FILM	0.068MF	5%	50V	
C606	1-124-918-11	ELECT	47MF	20%	63V	
C614	1-136-159-00	(EXCEPT FOR Canadian)....FILM	0.033MF	5%	50V	
C614	1-136-163-00	(Canadian)....FILM	0.068MF	5%	50V	
C615	1-136-163-00	(Canadian)....FILM	0.068MF	5%	50V	
C700	1-124-446-11	ELECT	47MF	20%	10V	
C701	1-124-443-00	ELECT	100MF	20%	6.3V	
C702	1-123-875-11	ELECT	10MF	20%	50V	
C703	1-124-446-11	ELECT	47MF	20%	10V	
C708	1-161-494-00	CERAMIC	0.022MF		25V	
C801	1-126-358-11	(EXCEPT FOR US)....ELECT	10000MF	20%	71V	
C801	1-125-479-11	(US)....ELECT	10000MF	20%	63V	
C802	1-126-358-11	(EXCEPT FOR US)....ELECT	10000MF	20%	71V	
C802	1-125-479-11	(US)....ELECT	10000MF	20%	63V	
C804	1-124-563-11	ELECT	2200MF	20%	25V	
C805	1-124-563-11	ELECT	2200MF	20%	25V	
C806	1-123-875-11	ELECT	10MF	20%	50V	

Ref.No	Part No.	Description			
C807	1-123-875-11	ELECT	10MF	20%	50V
C808	1-124-604-00	ELECT	330MF	20%	10V
C810	1-124-480-11	(EXCEPT FOR E)ELECT	470MF	20%	25V
C810	1-126-104-11	(E)....ELECT	470MF	20%	35V
C811	1-124-472-11	ELECT	470MF	20%	10V
C812	1-124-499-11	(E)....ELECT	1MF	20%	50V
C818	1-126-233-11	ELECT	22MF	20%	50V
C819	1-124-122-11	ELECT	100MF	20%	35V
C820	1-124-446-11	ELECT	47MF	20%	10V
C823	1-161-494-00	CERAMIC	0.022MF		25V
C904	1-130-471-00	MYLAR	0.001MF	10%	50V
C905	1-124-893-11	ELECT	2200MF	20%	10V
C906	1-161-494-00	CERAMIC	0.022MF		25V
C907	1-126-233-11	ELECT	22MF	20%	25V
C908	1-124-499-11	ELECT	1MF	20%	50V
C909	1-123-875-11	ELECT	10MF	20%	50V
C910	1-123-875-11	ELECT	10MF	20%	50V
C911	1-161-494-00	CERAMIC	0.022MF		25V
C912	1-101-361-00	CERAMIC	150PF	5%	50V
C913	1-101-361-00	CERAMIC	150PF	5%	50V
C915	1-124-925-11	ELECT	2.2MF	20%	50V
C916	1-126-233-11	ELECT	22MF	20%	25V
C917	1-124-925-11	ELECT	2.2MF	20%	50V
C918	1-161-494-00	CERAMIC	0.022MF		25V
C919	1-161-379-00	CERAMIC	0.01MF	20%	16V
C920	1-161-379-00	CERAMIC	0.01MF	20%	16V
C921	1-161-379-00	CERAMIC	0.01MF	20%	16V
C926	1-161-494-00	CERAMIC	0.022MF		25V
C927	1-161-494-00	CERAMIC	0.022MF		25V
C950	1-124-257-00	ELECT	2.2MF	20%	50V
C951	1-124-261-00	ELECT	10MF	20%	50V
C952	1-124-261-00	ELECT	10MF	20%	50V
C970	1-124-257-00	ELECT	2.2MF	20%	50V
C971	1-124-443-00	ELECT	100MF	20%	10V
C972	1-124-261-00	ELECT	10MF	20%	50V
CN806	*1-564-337-00	PIN, CONNECTOR 3P			
CNJ1	△.1-540-038-11	(E)....OUTLET, AC (NONPOLAR) (1P) (AC OUTLET)			
CNJ1	△.1-540-057-11	(EXCEPT FOR E)....OUTLET, AC (POLAR) (AC OUTLET)			
CNJ100	*1-566-858-11	SOCKET, CONNECTOR 11P (SYSTEM CONTROL 2)			
CNJ801	*1-566-210-11	PIN, CONNECTOR 3P (SYSTEM CONTROL 3)			
CNJ802	*1-566-858-11	SOCKET, CONNECTOR 11P (SYSTEM CONTROL 1)			
CNJ901	*1-565-354-11	SOCKET, CONNECTOR 15P			
CNJ902	*1-561-650-00	SOCKET, CONNECTOR 5P			
CNJ903	*1-561-650-00	SOCKET, CONNECTOR 5P			
CNJ905	*1-565-295-11	PLUG, CONNECTOR 4P			
CNJ908	*1-506-713-11	PLUG, CONNECTOR (2.5MM) 11P			
CNP901	*1-565-353-11	PIN, CONNECTOR 15P			
CNP902	1-506-906-11	PIN, CONNECTOR 5P			
CNP903	1-506-906-11	PIN, CONNECTOR 5P			
CNP905	1-565-296-11	SOCKET, CONNECTOR 4P			
CNP906	*1-564-777-11	PLUG, CONNECTOR (2.5MM) 2P			
D301	8-719-000-26	DIODE US1060M			
D503	8-719-815-85	DIODE 1S1585			
D504	8-719-815-85	DIODE 1S1585			
D603	8-719-815-85	DIODE 1S1585			
D604	8-719-815-85	DIODE 1S1585			
D700	8-719-200-77	DIODE 10E2N			
D701	8-719-000-26	DIODE US1060M			
D702	8-719-000-26	(Canadian)....DIODE US1060M			
D800	8-719-200-80	DIODE D300			
D801	8-719-200-80	DIODE D300			
D802	8-719-200-77	DIODE 10E2N			
D803	8-719-200-77	DIODE 10E2N			

Ref.No	Part No.	Description
D804	8-719-200-77	DIODE 10E2N
D805	8-719-200-77	DIODE 10E2N
D806	8-719-000-26	DIODE US1060M
D807	8-719-200-77	(EXCEPT FOR E)....DIODE 10E2N
D807	8-719-511-40	(E)....DIODE 1S1B10
D808	8-719-000-69	DIODE UZL-6H2
D814	8-719-934-22	DIODE HZS30-2L
D901	8-719-000-26	DIODE US1060M
D902	8-719-000-26	DIODE US1060M
D903	8-719-000-26	DIODE US1060M
D904	8-719-000-26	DIODE US1060M
D905	8-719-000-90	DIODE UZL-7M3
D906	8-719-301-38	DIODE SEL2210S-C
D907	8-719-301-38	DIODE SEL2210S-C
D908	8-719-301-38	DIODE SEL2210S-C
D909	8-719-301-38	DIODE SEL2210S-C
D910	8-719-301-38	DIODE SEL2210S-C
D911	8-719-951-11	DIODE HZSALL
D913	8-719-000-26	DIODE US1060M
D918	8-719-303-00	DIODE SEL2510C
D919	8-719-000-26	(Canadian)....DIODE US1060M
D926	8-719-000-26	DIODE US1060M
D927	8-719-301-52	DIODE SEL2810A-C
D950	8-719-302-46	DIODE SEL1210S-C
D951	8-719-302-46	DIODE SEL1210S-C
D952	8-719-302-46	DIODE SEL1210S-C
D953	8-719-302-46	DIODE SEL1210S-C
D954	8-719-302-46	DIODE SEL1210S-C
D970	8-719-302-46	DIODE SEL1210S-C
D971	8-719-302-46	DIODE SEL1210S-C
D972	8-719-302-46	DIODE SEL1210S-C
D973	8-719-302-46	DIODE SEL1210S-C
D974	8-719-302-46	DIODE SEL1210S-C
F1	△.1-532-237-00	(E)....FUSE, TIME-LAG (T3.15A)
F1	△.1-532-748-11	(EXCEPT FOR E)....FUSE, GLASS TUBE (125V/6.3A)
F2	△.1-532-237-00	(E)....FUSE, TIME-LAG (T3.15A)
F803	△.1-532-783-21	(EXCEPT FOR E)....FUSE, MICRO (SECONDARY) (125V/5A)
F804	△.1-532-783-21	(EXCEPT FOR E)....FUSE, MICRO (SECONDARY) (125V/5A)
F805	△.1-532-778-21	(EXCEPT FOR E)....FUSE, MICRO (SECONDARY) (125V/1.6A)
IC100	8-759-112-93	IC UPC4570HA-1
IC102	8-759-802-52	IC LC7818
IC300	8-759-112-93	IC UPC4570HA-1
IC301	8-759-112-93	IC UPC4570HA-1
IC501	8-759-144-04	IC UPC1342V
IC601	8-759-144-04	IC UPC1342V
IC700	8-759-111-68	IC UPC1237HA
IC800	8-759-604-33	IC M5F7812
IC801	8-759-604-49	IC M5F7909
IC802	8-759-604-33	(E)....IC M5F7812
IC900	8-749-920-59	IC A1QH3020S
IC901	8-759-632-61	IC M50761-258P
IC951	8-759-913-80	IC IR2E31
IC971	8-759-913-80	IC IR2E31
ICP800	1-532-686-00	(E)....LINK, IC (2.7A)
ICP801	1-532-686-00	(E)....LINK, IC (2.7A)
ICP802	1-532-675-21	(E)....LINK, IC (1.5A)
J100	1-565-320-11	JACK, PIN 6P (PHONE/CD/VIDEO AUDIO IN)
J700	1-563-255-11	JACK, LARGE TYPE (HEADPHONES)
L500	*1-420-872-00	COIL, AIR CORE
L600	*1-420-872-00	COIL, AIR CORE

Note:

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

Note:

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description
Q300	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q301	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q302	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q303	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q304	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q305	8-729-107-98	TRANSISTOR 2SC3622A-L
Q306	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q307	8-729-224-63	TRANSISTOR 2SK246BL
Q400	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q401	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q402	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q403	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q404	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q405	8-729-107-98	TRANSISTOR 2SC3622A-L
Q406	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q407	8-729-224-63	TRANSISTOR 2SK246BL
Q505	8-729-107-26	TRANSISTOR 2SD1585-K
Q508	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q509	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q511	8-729-304-29	TRANSISTOR 2SA1491
Q512	8-729-304-32	TRANSISTOR 2SC3855
Q514	8-729-108-05	TRANSISTOR 2SC1841-PA
Q605	8-729-107-26	TRANSISTOR 2SD1585-K
Q608	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q609	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q611	8-729-304-29	TRANSISTOR 2SA1491
Q612	8-729-304-32	TRANSISTOR 2SC3855
Q614	8-729-108-05	TRANSISTOR 2SC1841-PA
Q700	8-729-900-63	TRANSISTOR DTA124ES
Q800	8-729-177-42	TRANSISTOR 2SD774-34
Q804	8-729-801-93	TRANSISTOR 2SD1387
Q872	8-729-802-22	TRANSISTOR 2SB1014
Q900	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q902	8-729-900-80	TRANSISTOR DTC114ES
Q903	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q904	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q905	8-719-900-61	TRANSISTOR DTA114ES
Q908	8-729-111-29	TRANSISTOR 2SD1388
Q909	8-729-802-22	TRANSISTOR 2SB1014
Q913	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q914	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q915	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q916	8-729-900-63	TRANSISTOR DTA124ES
Q918	8-729-900-63	TRANSISTOR DTA124ES
Q919	8-729-900-36	TRANSISTOR DTC124ES
Q922	8-729-900-63	TRANSISTOR DTA124ES
Q971	8-729-119-78	TRANSISTOR 2SC2785-HFE

RESISTOR

R1	1-202-725-51	(EXCEPT FOR E)			
		... SOLID	3.3M	10%	1/2W
R100	1-249-441-11	CARBON	100K	5%	1/4W
R101	1-249-411-11	CARBON	330	5%	1/4W
R102	1-249-441-11	CARBON	100K	5%	1/4W
R103	1-249-416-11	CARBON	820	5%	1/4W
R104	1-247-897-11	CARBON	560K	5%	1/4W
R105	1-249-437-11	CARBON	47K	5%	1/4W
R106	1-249-409-11	CARBON	220	5%	1/4W
R107	1-249-441-11	CARBON	100K	5%	1/4W
R108	1-249-418-11	CARBON	1.2K	5%	1/4W
R110	1-249-418-11	CARBON	1.2K	5%	1/4W
R112	1-249-418-11	CARBON	1.2K	5%	1/4W
R114	1-249-413-11	CARBON	470	5%	1/4W
R116	1-249-418-11	CARBON	1.2K	5%	1/4W
R200	1-249-441-11	CARBON	100K	5%	1/4W

Ref.No	Part No.	Description			
R201	1-249-411-11	CARBON	330	5%	1/4W
R202	1-249-441-11	CARBON	100K	5%	1/4W
R203	1-249-416-11	CARBON	820	5%	1/4W
R204	1-247-897-11	CARBON	560K	5%	1/4W
R205	1-249-437-11	CARBON	47K	5%	1/4W
R206	1-249-409-11	CARBON	220	5%	1/4W
R207	1-249-441-11	CARBON	100K	5%	1/4W
R208	1-249-418-11	CARBON	1.2K	5%	1/4W
R210	1-249-418-11	CARBON	1.2K	5%	1/4W
R212	1-249-418-11	CARBON	1.2K	5%	1/4W
R214	1-249-413-11	CARBON	470	5%	1/4W
R216	1-249-418-11	CARBON	1.2K	5%	1/4W
R300	1-249-436-11	CARBON	39K	5%	1/4W
R301	1-249-438-11	CARBON	56K	5%	1/4W
R303	1-249-425-11	CARBON	4.7K	5%	1/4W
R304	1-249-425-11	CARBON	4.7K	5%	1/4W
R305	1-249-419-11	CARBON	1.5K	5%	1/4W
R306	1-249-437-11	CARBON	47K	5%	1/4W
R307	1-249-412-11	CARBON	390	5%	1/4W
R308	1-249-427-11	CARBON	6.8K	5%	1/4W
R309	1-249-419-11	CARBON	1.5K	5%	1/4W
R310	1-249-437-11	CARBON	47K	5%	1/4W
R311	1-249-412-11	CARBON	390	5%	1/4W
R312	1-249-427-11	CARBON	6.8K	5%	1/4W
R313	1-249-419-11	CARBON	1.5K	5%	1/4W
R314	1-249-437-11	CARBON	47K	5%	1/4W
R315	1-249-412-11	CARBON	390	5%	1/4W
R316	1-249-427-11	CARBON	6.8K	5%	1/4W
R317	1-249-419-11	CARBON	1.5K	5%	1/4W
R318	1-249-437-11	CARBON	47K	5%	1/4W
R319	1-249-412-11	CARBON	390	5%	1/4W
R320	1-249-427-11	CARBON	6.8K	5%	1/4W
R321	1-249-419-11	CARBON	1.5K	5%	1/4W
R322	1-249-437-11	CARBON	47K	5%	1/4W
R323	1-249-412-11	CARBON	390	5%	1/4W
R324	1-249-427-11	CARBON	6.8K	5%	1/4W
R327	1-249-417-11	CARBON	1K	5%	1/4W
R328	1-249-419-11	CARBON	1.5K	5%	1/4W
R330	1-249-417-11	CARBON	1K	5%	1/4W
R331	1-249-441-11	CARBON	100K	5%	1/4W
R333	1-249-409-11	CARBON	220	5%	1/4W
R335	1-249-438-11	CARBON	56K	5%	1/4W
R350	1-249-412-11	CARBON	390	5%	1/4W
R352	1-249-438-11	CARBON	56K	5%	1/4W
R353	1-249-426-11	CARBON	5.6K	5%	1/4W
R354	1-249-433-11	CARBON	22K	5%	1/4W
R356	1-249-425-11	CARBON	4.7K	5%	1/4W
R357	1-249-426-11	CARBON	5.6K	5%	1/4W
R358	1-249-429-11	CARBON	10K	5%	1/4W
R359	1-249-441-11	CARBON	100K	5%	1/4W
R361	1-247-903-00	CARBON	1M	5%	1/4W
R400	1-249-436-11	CARBON	39K	5%	1/4W
R401	1-249-438-11	CARBON	56K	5%	1/4W
R403	1-249-425-11	CARBON	4.7K	5%	1/4W
R404	1-249-425-11	CARBON	4.7K	5%	1/4W
R405	1-249-419-11	CARBON	1.5K	5%	1/4W
R406	1-249-437-11	CARBON	47K	5%	1/4W
R407	1-249-412-11	CARBON	390	5%	1/4W
R408	1-249-427-11	CARBON	6.8K	5%	1/4W
R409	1-249-419-11	CARBON	1.5K	5%	1/4W
R410	1-249-437-11	CARBON	47K	5%	1/4W
R411	1-249-412-11	CARBON	390	5%	1/4W
R412	1-249-427-11	CARBON	6.8K	5%	1/4W
R413	1-249-419-11	CARBON	1.5K	5%	1/4W
R414	1-249-437-11	CARBON	47K	5%	1/4W

Ref.No	Part No.	Description				
R415	1-249-412-11	CARBON	390	5%	1/4W	
R416	1-249-427-11	CARBON	6.8K	5%	1/4W	
R417	1-249-419-11	CARBON	1.5K	5%	1/4W	
R418	1-249-437-11	CARBON	47K	5%	1/4W	
R419	1-249-412-11	CARBON	390	5%	1/4W	
R420	1-249-427-11	CARBON	6.8K	5%	1/4W	
R421	1-249-419-11	CARBON	1.5K	5%	1/4W	
R422	1-249-437-11	CARBON	47K	5%	1/4W	
R423	1-249-412-11	CARBON	390	5%	1/4W	
R424	1-249-427-11	CARBON	6.8K	5%	1/4W	
R427	1-249-417-11	CARBON	1K	5%	1/4W	
R428	1-249-419-11	CARBON	1.5K	5%	1/4W	
R430	1-249-417-11	CARBON	1K	5%	1/4W	
R431	1-247-901-11	CARBON	820K	5%	1/4W	
R433	1-249-409-11	CARBON	220	5%	1/4W	
R435	1-249-438-11	CARBON	56K	5%	1/4W	
R450	1-249-412-11	CARBON	390	5%	1/4W	
R452	1-249-438-11	CARBON	56K	5%	1/4W	
R453	1-249-426-11	CARBON	5.6K	5%	1/4W	
R454	1-249-433-11	CARBON	22K	5%	1/4W	
R456	1-249-425-11	CARBON	4.7K	5%	1/4W	
R457	1-249-426-11	CARBON	5.6K	5%	1/4W	
R459	1-249-441-11	CARBON	100K	5%	1/4W	
R461	1-247-903-00	CARBON	1M	5%	1/4W	
R500	1-249-441-11	CARBON	100K	5%	1/4W	
R502	1-249-417-11	CARBON	1K	5%	1/4W	
R503	1-249-438-11	CARBON	56K	5%	1/4W	
R504	1-249-417-11	CARBON	1K	5%	1/4W	
R505	1-249-438-11	CARBON	56K	5%	1/4W	
R507	1-249-431-11	CARBON	15K	5%	1/4W	
R508	1-249-420-11	CARBON	1.8K	5%	1/4W	
R509	1-249-423-11	CARBON	3.3K	5%	1/4W	
R510	△.1-247-688-11	CARBON	10	5%	1/4W	F
R511	△.1-247-688-11	CARBON	10	5%	1/4W	F
R512	1-214-789-00	METAL PLATE	0.1		5W	
R513	1-214-789-00	METAL PLATE	0.1		5W	
R515	△.1-247-713-11	CARBON	1K	5%	1/4W	F
R516	△.1-247-713-11	CARBON	1K	5%	1/4W	F
R530	△.1-247-700-11	CARBON	100	5%	1/4W	F
R531	1-249-434-11	CARBON	27K	5%	1/4W	
R532	1-247-727-11	CARBON	10	5%	1/2W	
R533	1-249-437-11	CARBON	47K	5%	1/4W	
R534	1-247-727-11	CARBON	10	5%	1/2W	
R537	△.1-212-942-00	FUSIBLE	2.2	5%	1/2W	F
R597	△.1-215-869-11	METAL OXIDE	1K	5%	1W	F
R600	1-249-441-11	CARBON	100K	5%	1/4W	
R602	1-249-417-11	CARBON	1K	5%	1/4W	
R603	1-249-438-11	CARBON	56K	5%	1/4W	
R604	1-249-417-11	CARBON	1K	5%	1/4W	
R605	1-249-438-11	CARBON	56K	5%	1/4W	
R607	1-249-431-11	CARBON	15K	5%	1/4W	
R608	1-249-420-11	CARBON	1.8K	5%	1/4W	
R609	1-249-423-11	CARBON	3.3K	5%	1/4W	
R610	△.1-247-688-11	CARBON	10	5%	1/4W	F
R611	△.1-247-688-11	CARBON	10	5%	1/4W	F
R612	1-214-789-00	METAL PLATE	0.1		5W	
R613	1-214-789-00	METAL PLATE	0.1		5W	
R615	△.1-247-713-11	CARBON	1K	5%	1/4W	F
R616	△.1-247-713-11	CARBON	1K	5%	1/4W	F
R630	△.1-247-700-11	CARBON	100	5%	1/4W	F
R631	1-249-434-11	CARBON	27K	5%	1/4W	
R632	1-247-727-11	CARBON	10	5%	1/2W	
R633	1-249-438-11	CARBON	56K	5%	1/4W	
R634	1-247-727-11	CARBON	10	5%	1/2W	
R637	△.1-212-942-00	FUSIBLE	2.2	5%	1/2W	F

Ref.No	Part No.	Description				
R697	△.1-215-869-11	METAL OXIDE	1K	5%	1W	F
R701	1-249-427-11	CARBON	6.8K	5%	1/4W	
R702	1-249-441-11	CARBON	100K	5%	1/4W	
R703	1-249-441-11	CARBON	100K	5%	1/4W	
R704	1-249-433-11	CARBON	22K	5%	1/4W	
R705	1-249-435-11	CARBON	33K	5%	1/4W	
R706	△.1-206-724-00	METAL OXIDE	910	5%	3W	F
R802	1-249-416-11	CARBON	820	5%	1/4W	
R803	1-249-425-11	CARBON	4.7K	5%	1/4W	
R805	1-249-425-11	CARBON	4.7K	5%	1/4W	
R806	1-249-397-11	(EXCEPT FOR Canadian)				
R806	△.1-247-692-11	CARBON (Canadian)	22	5%	1/4W	
R808	1-249-399-11	CARBON (EXCEPT FOR E)	22	5%	1/4W	F
R810	△.1-247-688-11	CARBON (EXCEPT FOR US)	33	5%	1/4W	
R810	1-247-756-11	(US)....CARBON	10	5%	1/4W	F
R810	1-247-756-11	(US)....CARBON	2.2K	5%	1/2W	
R815	1-249-426-11	CARBON	5.6K	5%	1/4W	
R816	△.1-212-942-00	FUSIBLE	2.2	5%	1/2W	F
R903	1-249-429-11	CARBON	10K	5%	1/4W	
R906	1-249-429-11	CARBON	10K	5%	1/4W	
R907	1-249-417-11	CARBON	1K	5%	1/4W	
R908	1-249-429-11	CARBON	10K	5%	1/4W	
R909	1-249-417-11	CARBON	1K	5%	1/4W	
R910	1-249-393-11	CARBON	10	5%	1/4W	
R911	1-247-901-11	CARBON	820K	5%	1/4W	
R912	1-249-425-11	CARBON	4.7K	5%	1/4W	
R913	1-249-433-11	CARBON	22K	5%	1/4W	
R914	1-249-433-11	CARBON	22K	5%	1/4W	
R915	1-249-429-11	CARBON	10K	5%	1/4W	
R916	1-249-429-11	CARBON	10K	5%	1/4W	
R917	1-249-433-11	CARBON	22K	5%	1/4W	
R918	1-249-441-11	CARBON	100K	5%	1/4W	
R919	1-249-433-11	CARBON	22K	5%	1/4W	
R920	1-249-417-11	CARBON	1K	5%	1/4W	
R921	1-249-433-11	CARBON	22K	5%	1/4W	
R922	1-249-441-11	CARBON	100K	5%	1/4W	
R923	1-249-441-11	CARBON	100K	5%	1/4W	
R924	1-249-429-11	CARBON	10K	5%	1/4W	
R925	1-249-413-11	CARBON	470	5%	1/4W	
R926	1-249-413-11	CARBON	470	5%	1/4W	
R927	1-249-413-11	CARBON	470	5%	1/4W	
R928	1-249-413-11	CARBON	470	5%	1/4W	
R929	1-249-413-11	CARBON	470	5%	1/4W	
R930	1-249-417-11	CARBON	1K	5%	1/4W	
R931	1-249-419-11	CARBON	1.5K	5%	1/4W	
R932	1-249-394-11	CARBON	12	5%	1/4W	
R933	1-249-394-11	CARBON	12	5%	1/4W	
R934	1-249-441-11	CARBON	100K	5%	1/4W	
R935	1-247-887-00	CARBON	220K	5%	1/4W	
R937	1-249-441-11	CARBON	100K	5%	1/4W	
R938	1-249-433-11	CARBON	22K	5%	1/4W	
R939	1-249-433-11	CARBON	22K	5%	1/4W	
R940	1-247-903-00	CARBON	1M	5%	1/4W	
R941	1-249-423-11	CARBON	3.3K	5%	1/4W	
R942	1-249-433-11	CARBON	22K	5%	1/4W	
R946	1-249-423-11	CARBON	3.3K	5%	1/4W	
R948	1-249-413-11	CARBON	470	5%	1/4W	
R949	1-249-417-11	CARBON	1K	5%	1/4W	
R950	1-249-441-11	CARBON	100K	5%	1/4W	
R951	1-249-405-11	CARBON	100	5%	1/4W	
R952	1-249-412-11	CARBON	390	5%	1/4W	
R953	1-249-434-11	CARBON	27K	5%	1/4W	

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

Note:
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description
R970	1-249-441-11	CARBON 100K 5% 1/4W
R971	1-249-405-11	CARBON 100 5% 1/4W
R972	1-249-423-11	CARBON 3.3K 5% 1/4W
R973	1-249-434-11	CARBON 27K 5% 1/4W
R985	1-247-751-11	CARBON 820 5% 1/2W
R987	1-249-433-11	CARBON 22K 5% 1/4W
R989	1-249-433-11	CARBON 22K 5% 1/4W
R990	1-249-433-11	CARBON 22K 5% 1/4W
R991	1-249-433-11	CARBON 22K 5% 1/4W
R992	1-249-433-11	CARBON 22K 5% 1/4W
R993	1-249-433-11	CARBON 22K 5% 1/4W
R996	1-247-727-11	CARBON 10 5% 1/2W
RV300	1-238-079-11	RES, VAR, CARBON(MOTOR) 100KX2 (VOLUME)
RV301	1-238-493-11	RES, VAR, CARBON 150K/150K (BALANCE)
RV302	1-238-078-11	RES, VAR, SLIDE 250K/250K (100Hz)
RV303	1-238-078-11	RES, VAR, SLIDE 250K/250K (330Hz)
RV304	1-238-078-11	RES, VAR, SLIDE 250K/250K (1KHz)
RV305	1-238-078-11	RES, VAR, SLIDE 250K/250K (3.3KHz)
RV306	1-238-078-11	RES, VAR, SLIDE 250K/250K (10KHz)
RV501	1-238-011-11	RES, ADJ, CARBON 470
RV601	1-238-011-11	RES, ADJ, CARBON 470
RY700	1-515-356-00	RELAY
RY901	1-515-617-11	(E)....RELAY
RY901	1-515-701-11	(EXCEPT FOR E)....RELAY
S1	1-554-303-21	SWITCH, KEY BOARD (PHONO)
S2	1-554-303-21	SWITCH, KEY BOARD (TUNER)
S3	1-554-303-21	SWITCH, KEY BOARD (CD)
S4	1-554-303-21	SWITCH, KEY BOARD (TAPE)
S5	1-554-303-21	SWITCH, KEY BOARD (VIDEO)
S6	1-554-303-21	SWITCH, KEY BOARD (DBFB)
S7	1-554-303-21	SWITCH, KEY BOARD (SYSTEM POWER)
S500	1-571-861-11	SWITCH, ROTARY SLIDE (SPEAKER)
T1	△1-449-573-11	(US)....TRANSFORMER, POWER
T1	△1-449-573-21	(Canadian)....TRANSFORMER, POWER
T1	△1-449-737-11	(E)....TRANSFORMER, POWER
T2	△1-448-517-21	(EXCEPT FOR E)....TRANSFORMER, POWER
T2	△1-448-523-11	(E)....TRANSFORMER, POWER
TB502	*1-535-115-00	TERMINAL
TB602	*1-535-115-00	TERMINAL
TB701	*1-535-115-00	TERMINAL
TB702	*1-535-115-00	TERMINAL
TB703	*1-508-831-12	H TYPE BASE POST 4P
TB803	*1-535-139-00	(E)....BASE POST 22MM (10MM PITCH) 2P
TB805	*1-535-139-00	(EXCEPT FOR E)....BASE POST 22MM (10MM PITCH) 2P
TB805	*1-535-140-00	(E)....BASE POST 22MM (10MM PITCH) 3P
TB806	*1-535-140-00	(E)....BASE POST 22MM (10MM PITCH) 3P
TB807	*1-535-115-00	(E)....TERMINAL
TB808	*1-535-116-00	TERMINAL
TB810	*1-535-115-00	(E)....TERMINAL
TB892	*1-535-142-00	BASE POST 22MM (10MM PITCH) 5P
TM700	1-536-706-00	TERMINAL BOARD (SPEAKER)
VS1	△1-571-515-11	(E)....SWITCH, VOLTAGE, CHANGE (VOLTAGE SELECTOR)
X900	1-577-077-11	OSCILLATOR, CERAMIC (400KHz)

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

Note:
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• Troubleshooting Guide

Symptom	Remedy
No audio	• Check the power cord connection. • Check the SPEAKERS selector setting. • Check the connections. • Check the setting of the function selector. • Check the speaker terminal connection and the speaker cord for a short.
No audio from one channel	• Adjust the BALANCE control. • Check the speaker cord or connecting cord connection.
Lack of bass sound or obscure instrument position	• Check the connection between the amplifier and speakers.
Severe hum or noise when using the turntable	• Ground the turntable system. • Fully insert the plug of the connecting cord. • Disconnect the ground wire of the turntable from the terminal when using an MM cartridge with a ground piece.
Noise when TV is turned on	• Move the TV away from the audio system.
Switching on DBFB does not affect the sound	• DBFB reinforces only low frequencies at low sound levels.

SONY[®] SERVICE MANUAL

*US Model
Canadian Model
E Model*

SUPPLEMENT-1

File this supplement with the Service Manual.

Subject : Australian model has been added.

TA-AX295 Australian model has been added for E model.
This supplement only contains the difference between the models.
Therefore, refer to the service manual for the other information.

E model			Australian model	
Page No.	Part No.	Description	Part No.	Description
54	3-703-571-11	BUSHING (S) (4516), CORD	*3-703-244-00	BUSHING (2104), CORD
21	913 Δ 1-551-188-XX	CORD, POWER	Δ 1-555-795-00	CORD, POWER, EURO PLUG
—	—	—	Δ 1-506-401-00	ADAPTOR, CONVERSION

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

TA-AX295

SONY[®] SERVICE MANUAL

*US Model
Canadian Model
E Model*

SUPPLEMENT-2

File this supplement with the service manual.

Subject: Circuit changed.

• Addition parts

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
< CAPACITOR >			
C117	1-124-927-11	ELECT 4.7uF 20% 50V	
C118	1-124-927-11	ELECT 4.7uF 20% 50V	
C217	1-124-927-11	ELECT 4.7uF 20% 50V	
C218	1-124-927-11	ELECT 4.7uF 20% 50V	
< TRANSISTOR >			
Q103	8-729-119-78	TRANSISTOR 2SC2785	
Q203	8-729-119-78	TRANSISTOR 2SC2785	
< RESISTOR >			
R118	1-249-441-11	CARBON 100K 5% 1/4W	
R119	1-247-885-00	CARBON 180K 5% 1/4W	
R120	1-249-417-11	CARBON 1K 5% 1/4W	
R121	1-249-417-11	CARBON 1K 5% 1/4W	
R218	1-249-441-11	CARBON 100K 5% 1/4W	
R219	1-247-885-00	CARBON 180K 5% 1/4W	
R220	1-249-417-11	CARBON 1K 5% 1/4W	
R221	1-249-417-11	CARBON 1K 5% 1/4W	

• Deletion parts

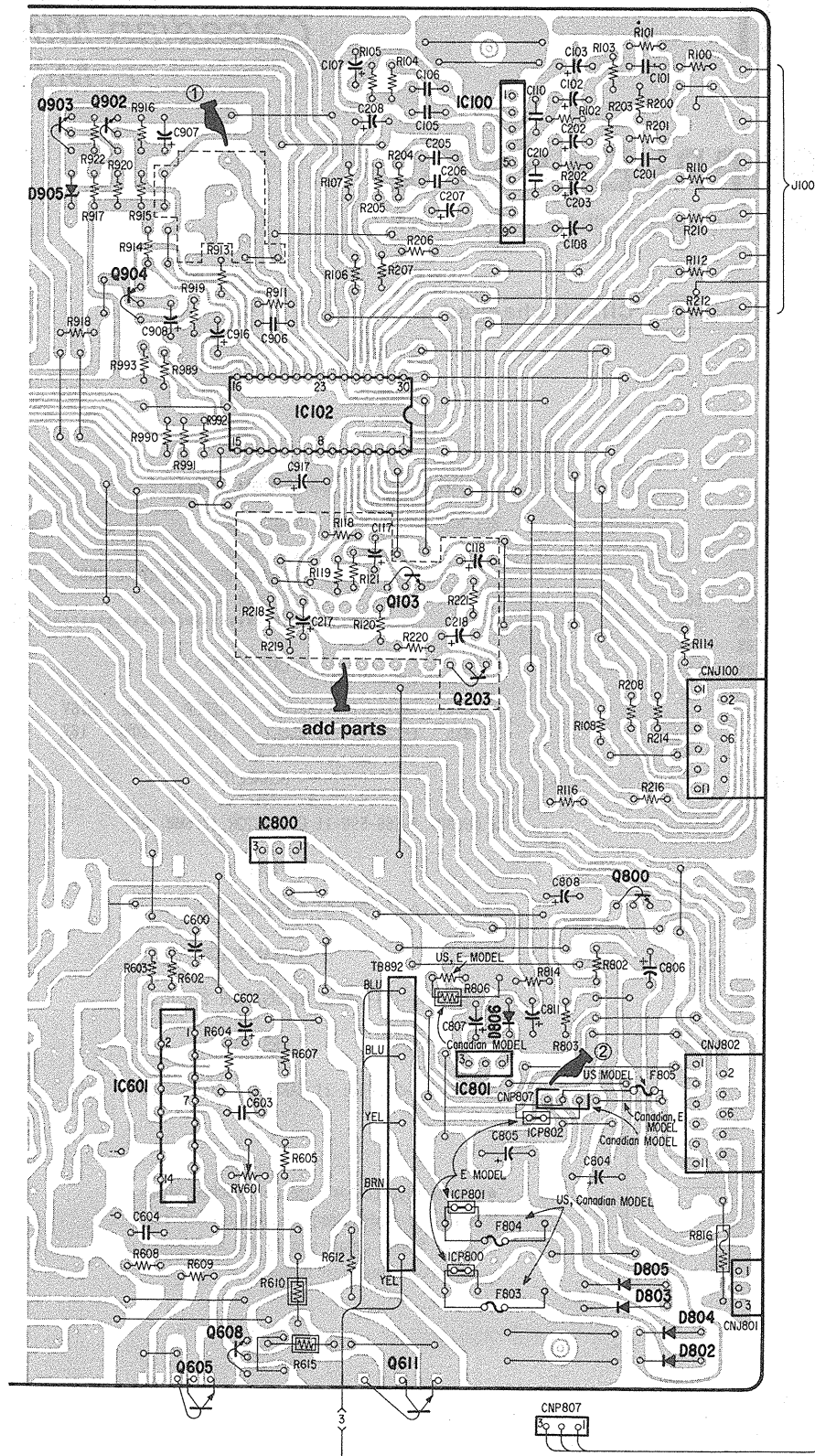
<u>Page</u>	<u>FORMER TYPE</u>				
13	<u>Ref.No.</u>	<u>Description</u>			
	C905	ELECT	2200uF	20%	10V
	D902	DIODE US1060M			
	D903	DIODE US1060M			
	D904	DIODE US1060M			
	R912	CARBON	4.7K	5%	1/4W

• Addition parts (Canadian only)

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
SUB BOARD (MAIN BOARD COMPLETE:A-4333-126-A) (include SUB BOARD *****)			
< CAPACITOR >			
C824	1-124-120-11	ELECT 220uF 20% 16V	
C825	1-124-477-11	ELECT 47uF 20% 16V	
< CONNECTOR >			
* CNP807 1-569-596-11 CONNECTOR (2.5MM) 3P			
< DIODE >			
D809	8-719-001-54	DIODE UZL-11H2	
< TRANSISTOR >			
Q805	8-729-209-15	TRANSISTOR 2SD2012	
< RESISTOR >			
R817	1-249-411-11	CARBON 330 5% 1/4W	

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

【MAIN BOARD】



①  : delete parts

C905
D902
D903
D904
R912

② : add parts

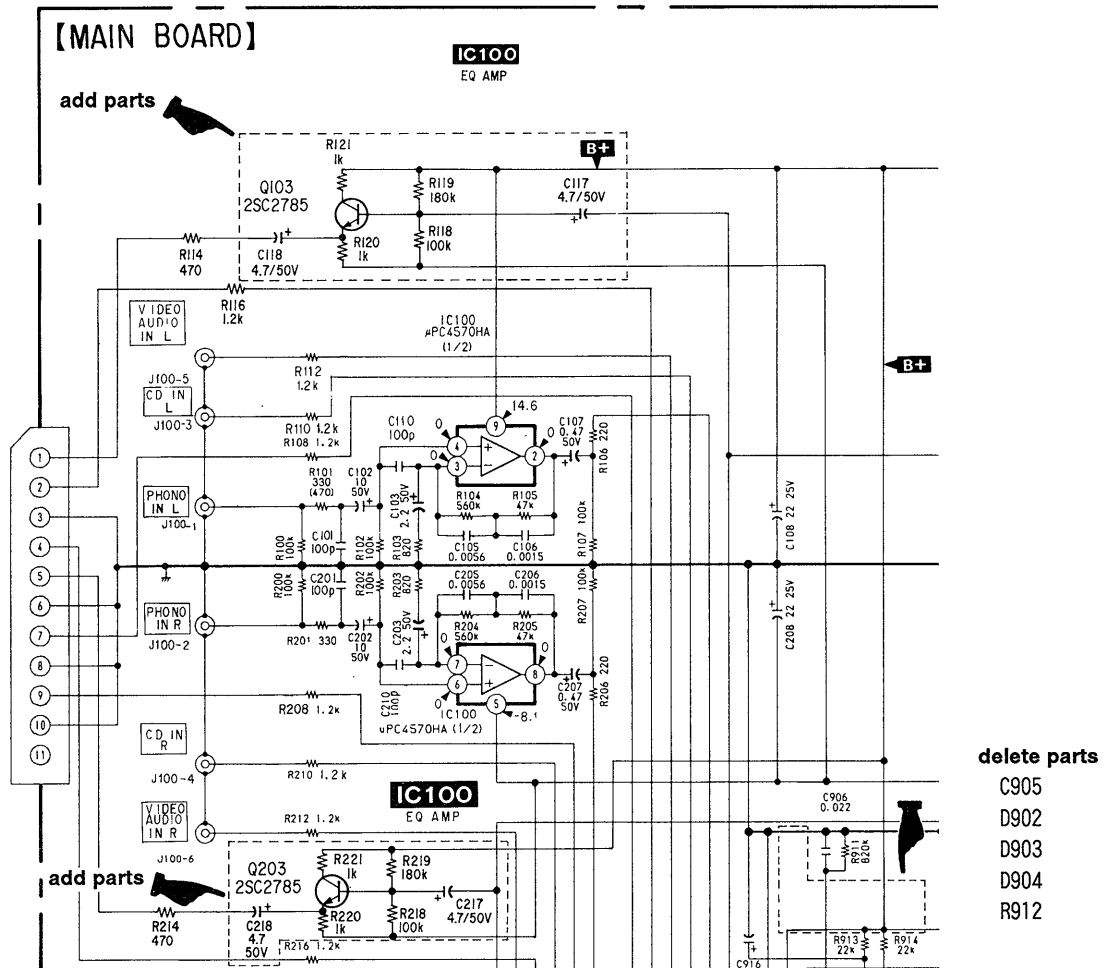
CNP807 (Canadian only)

【SUB BOARD】

add parts
(Canadian only)

 : Changed portion

2. SCHEMATIC DIAGRAM (Service Manual Pages 15-19.)



Location(N-5)

CNJ 802

