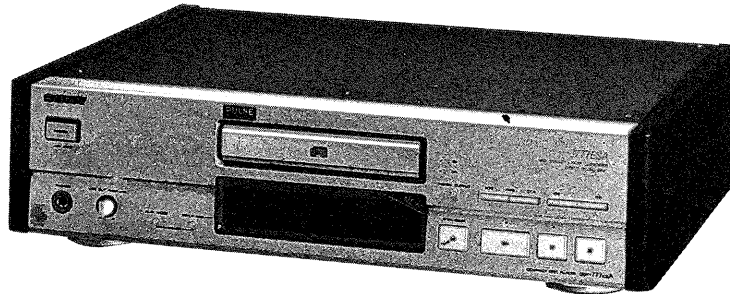


CDP-X779ES

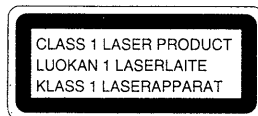
SERVICE MANUAL

US Model
Canadian Model
AEP Model



COMPACT
disc
DIGITAL AUDIO

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.



This Compact Disc player is classified as a CLASS 1 LASER Product. The CLASS 1 LASER PRODUCT label is located on the rear exterior

Model Name Using Similar Mechanism	CDP-X777ES
CD Mechanism Type	CDM19A-6F70 (Black) CDM19B-6F70 (Gold)
Optical Pick-Up Type	KSS-272A

SPECIFICATIONS

Compact disc player

Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$) Emission duration: continuous
Laser output	Max. $44.6 \mu\text{W}^*$ * This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.
Frequency response	2 Hz – 20 kHz $\pm 0.3 \text{ dB}$
Signal to noise ratio	More than 119 dB
Dynamic range	More than 100 dB
Harmonic distortion	Less than 0.0015%
Channel separation	More than 110 dB

Outputs

LINE OUT (FIXED)	Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms
LINE OUT (VARIABLE)	Output level max. 2 V (at 50 kilohms) Load impedance over 50 kilohms
BALANCED OUT (FIXED)	Output level 2 V (at 50 kilohms) Load impedance over 600 ohms
DIGITAL OUT (COAXIAL)	Output level 0.5 Vp-p (at 75 ohms) Load impedance 75 ohms
DIGITAL OUT (OPTICAL)	Wave length 660 nm Output level – 18 dBm

PHONES (Stereo phone jack)	Output level max. 100 mW Load impedance 32 ohms
-------------------------------	--

General Power requirements	Model for AEP 220 – 230 V AC 50/60 Hz Model for US, Canada 120 V AC, 60 Hz
--------------------------------------	---

Power consumption	38 W
Dimensions (approx., including projections)	470 × 125 × 375 mm (w/h/d) (18 ⁵ / ₈ × 5 × 14 ⁷ / ₈ inches)

Weight (approx.)	16.5 kg (36 lbs 7 oz)
------------------	-----------------------

— Continued on next page —



COMPACT DISC PLAYER
SONY®

Remote commander (RM-D995)

Remote control system	Infrared control
Power requirements	3 V DC with two batteries size AA (IEC designation R6)
Dimensions	62×18×175 mm (w/h/d) (2 1/2×23/32×7 inches)
Weight	135 g (4.6 oz) Including batteries

Supplied accessories

Connecting cord	1 (2 phono plugs ↔ 2 phono plugs)
Remote commander	1
Sony SUM-3(NS) batteries	2
Screws (for models with sidewood panels only)	8

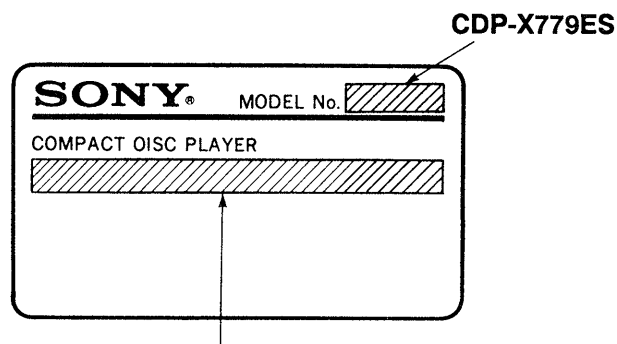
Optional accessory

Audio optical connecting cord POC-15
Digital connecting cord VMC-1ES

Design and specifications are subject to change without notice.

MODEL IDENTIFICATION

—Model Number Label—



US model : AC : 120V 60Hz (Ⓛ mark on rear panel.)

Canadian model : AC : 120V 60Hz

AEP model : AC : 220—230V~50/60Hz

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>	<u>Section</u>	<u>Title</u>	<u>Page</u>
1. GENERAL			4. EXPLODED VIEWS		
Identifying the Parts		4	4-1. Cabinet Assembly		33
2. ELECTRICAL BLOCK CHECKING		5	4-2. Front Panel Assembly		34
3. DIAGRAMS			4-3. Chassis Assembly		35
3-1. Circuit Boards Location		7	4-4. Mechanism Block Assembly (1)		36
3-2. Block Diagrams		8	4-5. Mechanism Block Assembly (2)		37
3-3. Printed Wiring Board — Audio Section —		11	5. ELECTRICAL PARTS LIST		38
3-4. Schematic Diagram — Audio Section —		15			
3-5. Schematic Diagram — Digital Section —		20			
3-6. Printed Wiring Board — Digital Section —		25			
3-7. IC Block Diagrams		29			
3-8. Semiconductor Lead Layouts		32			

SAFETY-RELATED COMPONENT WARNING!!

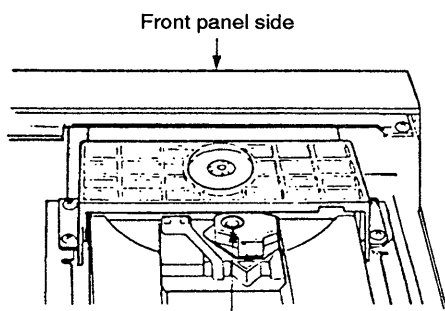
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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.

[CHECKING METHODS OF LASER DIODE AND FOCUS SEARCH OPERATIONS]

- Turn the power switch ON with the condition of the disc table closed without disc. And then watch the objective lens to check whether the operation can be performed or not, as the below figure shows.



- The laser beams diffused can be observed.
- The up and down movements of the objective lens (Twice)

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30cm away from the objective lens.

SAFETY CHECK-OUT

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

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

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 microamperes). 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 2 V AC range are suitable. (See Fig. A)

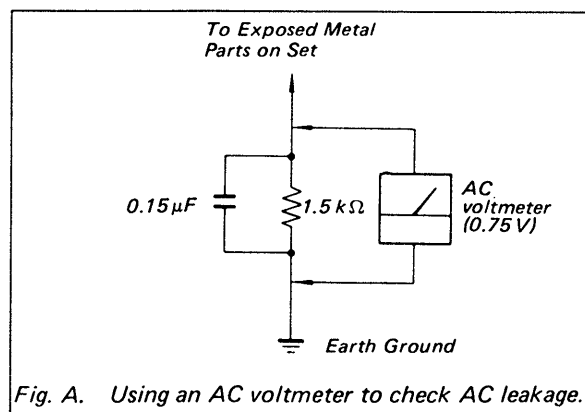
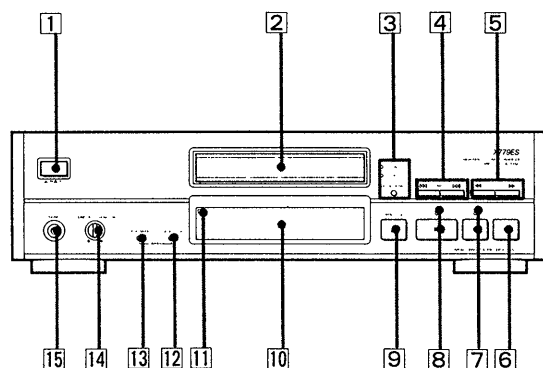


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1 GENERAL

Identifying the Parts

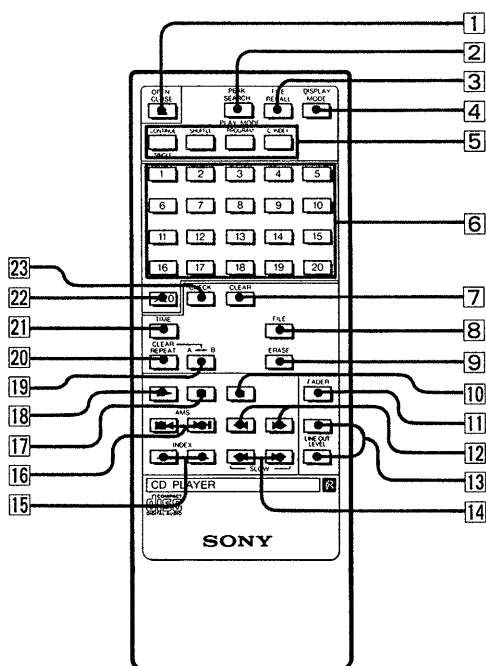
Front Panel



- 1 Power switch
- 2 Disc tray
- 3 DIGITAL OUTPUT button and indicators
- 4 AMS* buttons
- 5 (manual search) buttons
- 6 (stop) button
- 7 (pause) button and indicator
- 8 (play) button and indicator
- 9 OPEN/CLOSE button
- 10 Display window
- 11 Remote sensor
- 12 DISPLAY MODE button
- 13 PLAY MODE buttons
- 14 LINE OUT/PHONE LEVEL control
- 15 PHONES jack

* AMS is the abbreviation of Automatic Music Sensor.

Remote Commander



- 1 OPEN/CLOSE button
- 2 PEAK SEARCH button
- 3 FILE RECALL button
- 4 DISPLAY MODE button
- 5 PLAY MODE buttons
- 6 Numeric buttons
- 7 CLEAR button
- 8 FILE (custom file) button
- 9 ERASE button
- 10 (stop) button
- 11 FADER (fade in/fade out) button
- 12 (manual search) buttons
- 13 LINE OUT LEVEL (line out/headphones level) buttons
- 14 SLOW (low speed manual search) buttons
- 15 INDEX buttons
- 16 AMS* buttons
- 17 (pause) button
- 18 (play) button
- 19 A ↔ B repeat button
- 20 REPEAT (repeat/A-B repeat clear) button
- 21 TIME button
- 22 > 20 (over 20) button
- 23 CHECK button

* AMS is the abbreviation of Automatic Music Sensor.

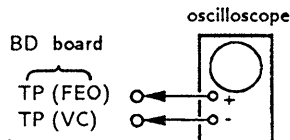
SECTION 2

ELECTRICAL BLOCK CHECKING

Note :

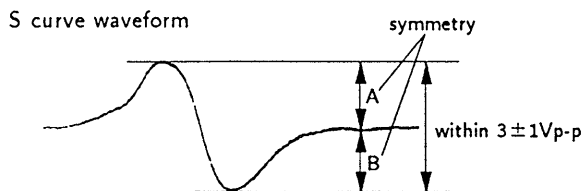
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than $10M\Omega$ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



Procedure :

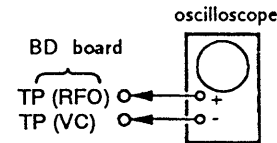
1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within $3\pm 1V_{p-p}$.



5. After check, remove the lead wire connected in step 2.

Note : • Try to measure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

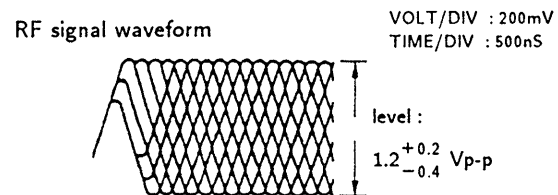


Procedure :

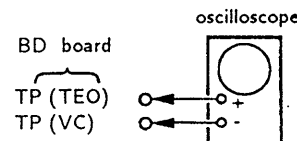
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

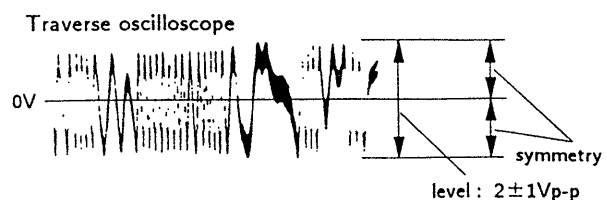


E-F Balance Check



Procedure :

1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

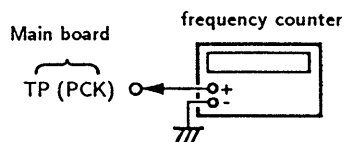


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

1. Connect frequency counter to test point (PCK) with lead wire.



2. Turn Power switch on.
3. Confirm that reading on frequency counter is
4. 3218MHz.

Focus/Tracking Gain

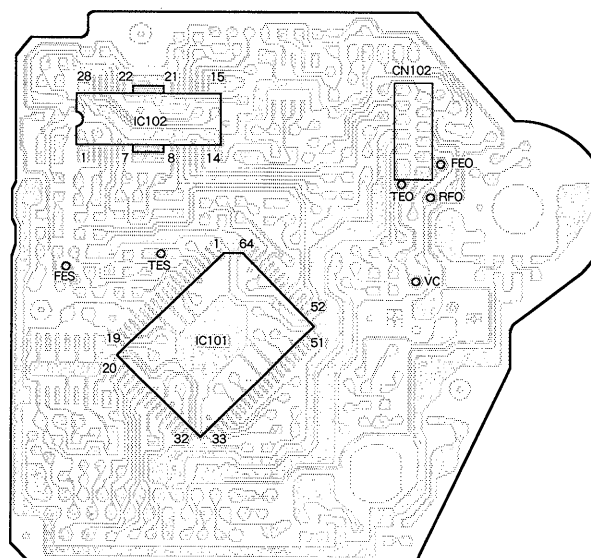
This gain has a margin, so even if it is slightly off. There is no problem.

Therefore, do not perform, this adjustment.

Please note that it should be fixed to mechanical center position when you moved and do not know original position.

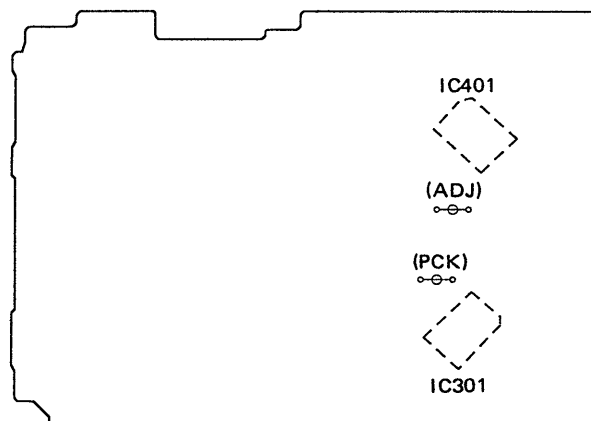
Adjustment Locations : [BD board]

— conductor side —



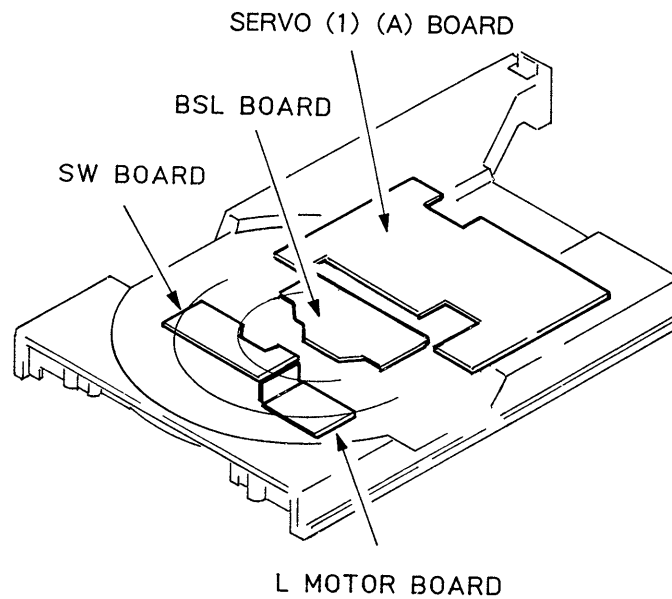
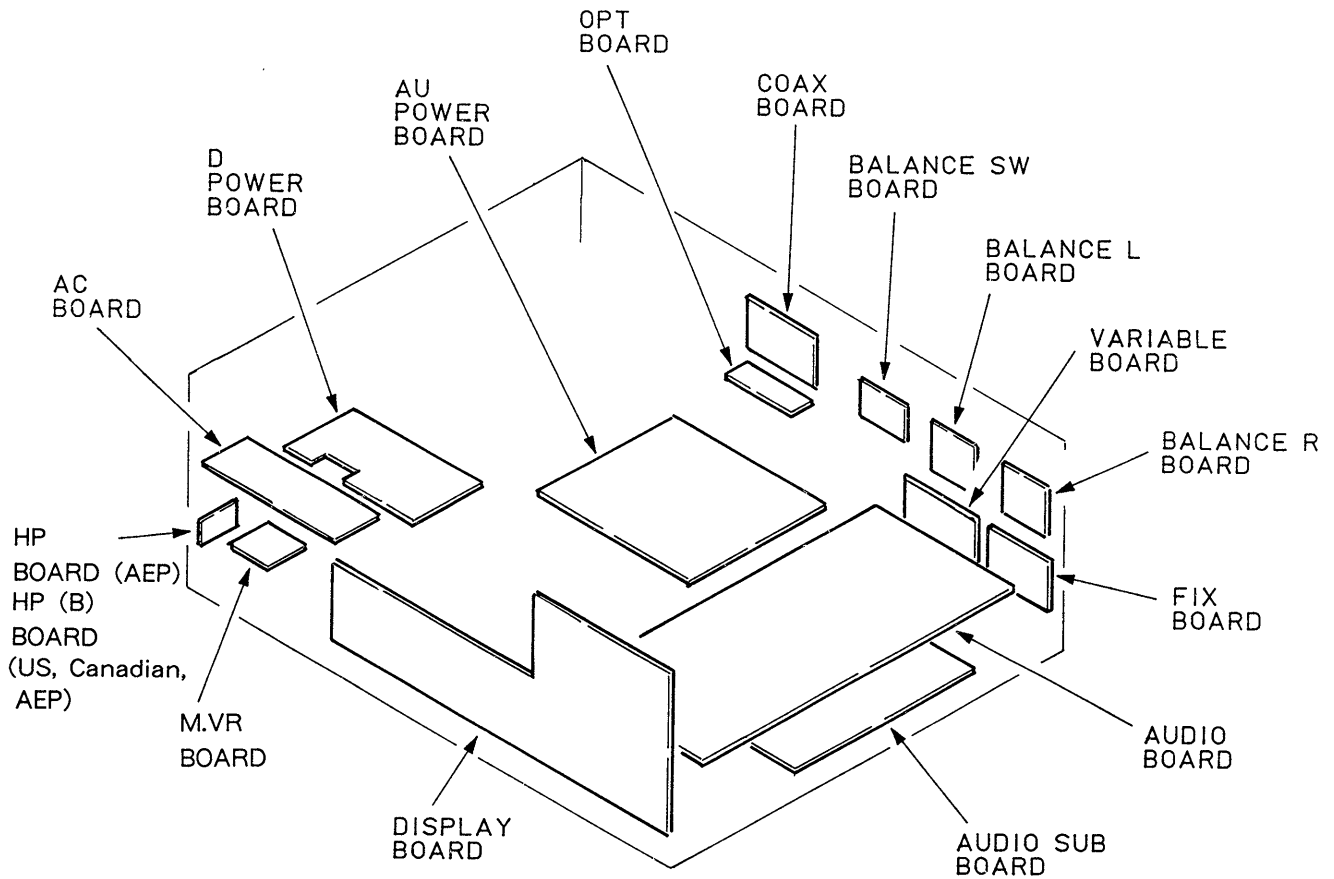
[Main board]

— component side —

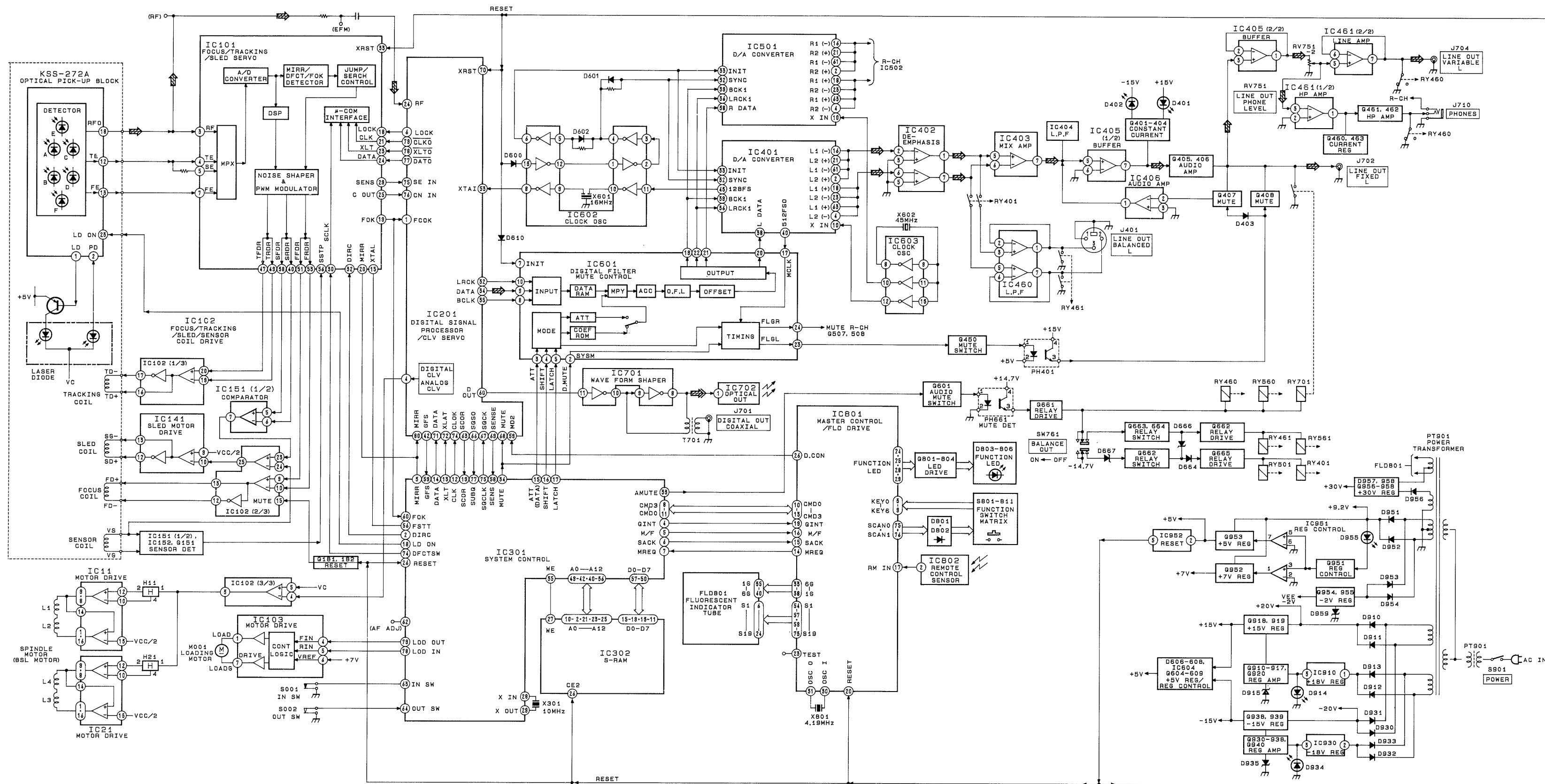


SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. BLOCK DIAGRAMS



3-3. PRINTED WIRING BOARD — AUDIO SECTION —

- Refer to page 29 for IC BLOCK DIAGRAM
- Refer to page 32 for Semiconductor Lead Layouts

— AUDIO SECTION —

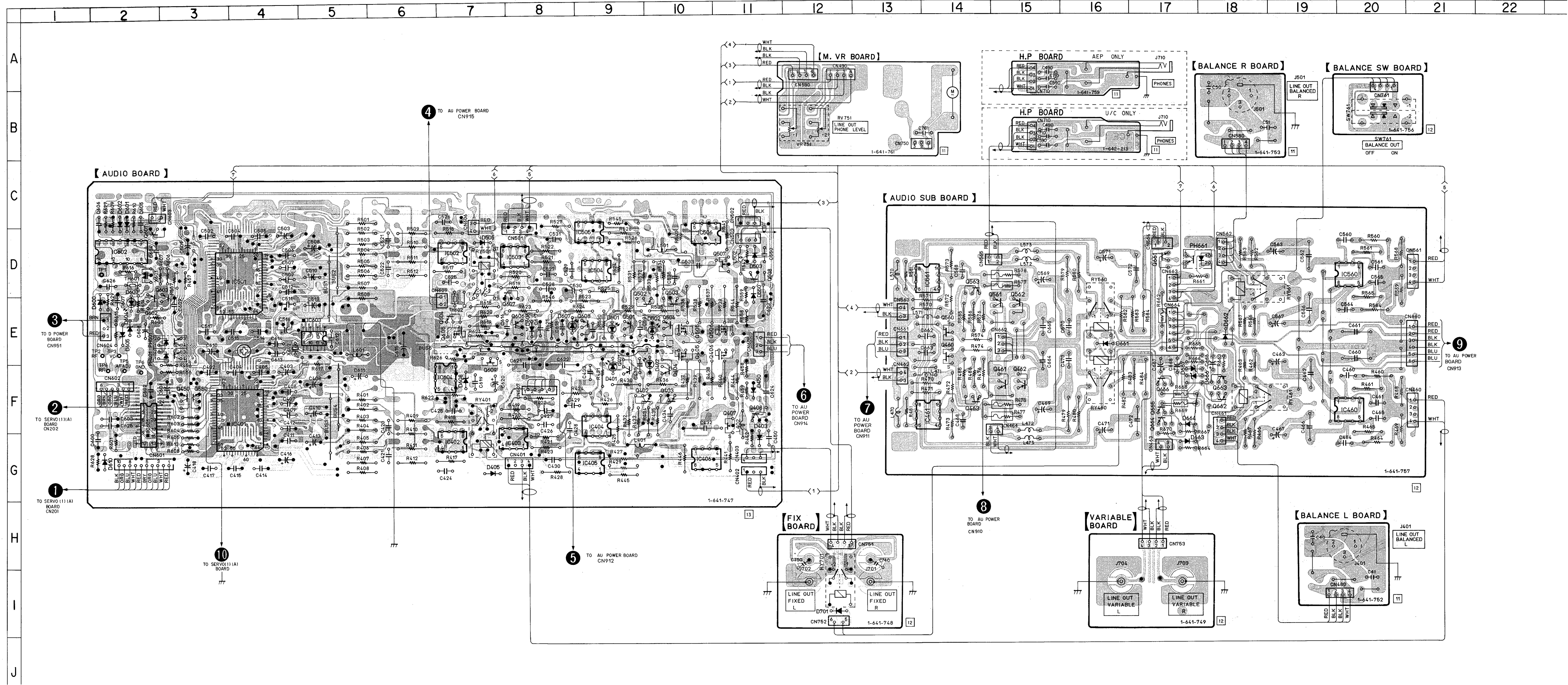
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D401	F-9	Q401	F-9
D402	F-10	Q402	F-9
D403	G-11	Q403	F-10
D405	G-7	Q404	F-10
D450	F-11	Q405	E-10
D501	E-9	Q408	E-11
D502	E-10	Q407	F-11
D503	D-11	Q408	F-11
D505	D-7	Q450	F-3
D550	D-11	Q480	E-14
D800	E-2	Q481	F-15
D801	C-2	Q482	F-15
D802	C-2	Q483	F-14
D803	E-2	Q501	E-9
D804	E-2	Q502	E-10
D805	E-2	Q503	E-10
D806	E-8	Q504	E-10
D807	E-8	Q505	E-10
D808	F-7	Q506	E-11
D810	G-2	Q507	D-11
D861	E-16	Q508	D-11
D862	E-18	Q550	F-3
D863	G-17	Q580	E-14
D864	F-17	Q581	E-15
D866	F-17	Q582	E-15
D867	F-17	Q583	D-14
D701	I-12	Q801	D-2
		Q802	E-2
IC401	F-4	Q803	E-3
IC402	G-7	Q804	E-7
IC403	G-8	Q805	E-7
IC404	F-9	Q806	E-8
IC405	G-9	Q807	E-8
IC406	G-10	Q808	E-9
IC480	F-20	Q809	E-7
IC481	F-14	Q861	D-17
IC501	D-4	Q862	F-18
IC502	D-7	Q863	F-18
IC503	D-8	Q864	F-17
IC504	D-9	Q865	F-17
IC505	D-9	Q866	F-17
IC506	D-10		
IC580	D-20		
IC581	D-14		
IC601	F-2		
IC602	D-2		
IC603	E-5		
IC604	F-7		
PH401	E-3		
PH501	E-3		
PH661	D-17		

— AUDIO SECTION —

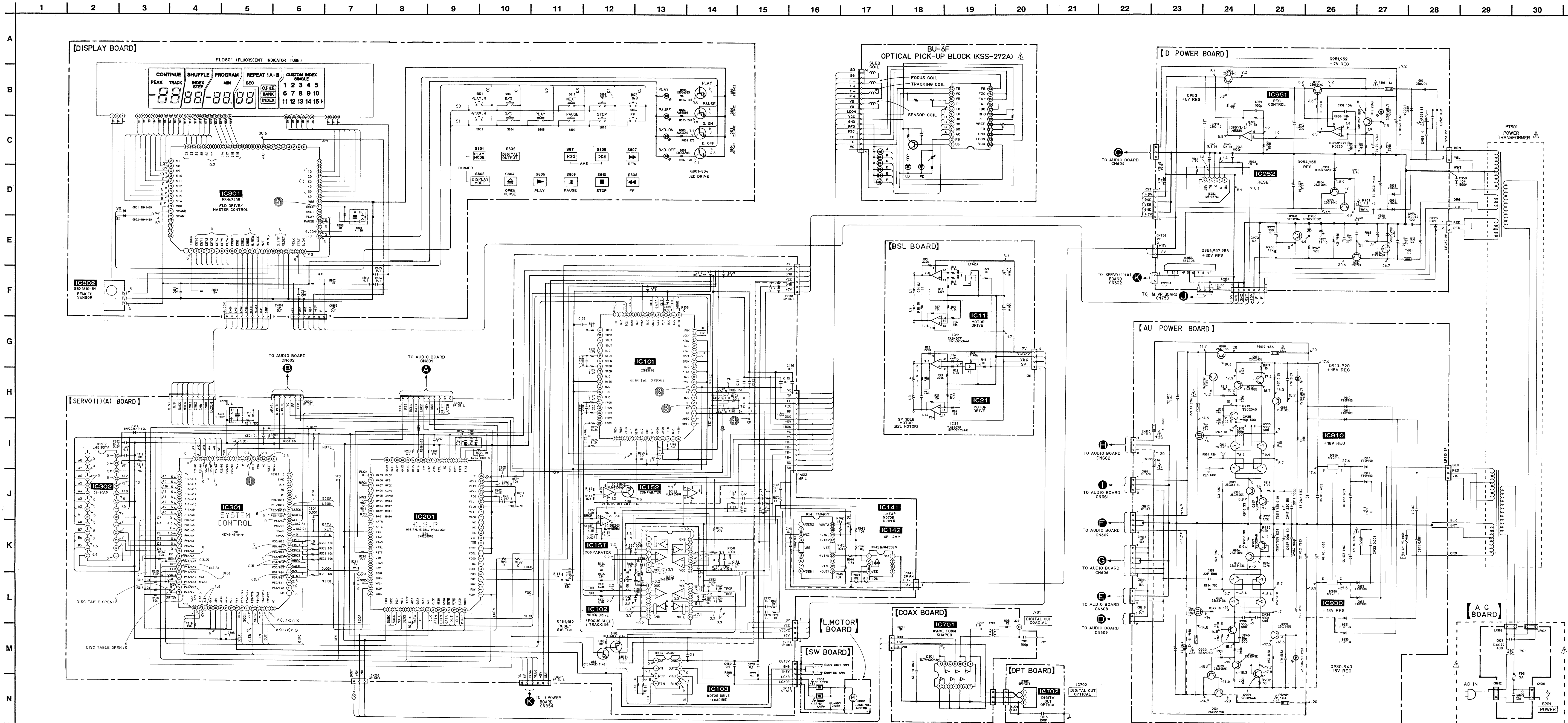
Note:

- — : parts extracted from the component side.
- — : parts extracted from the conductor side.
- — : parts mounted on the conductor side.
- ⊙ — : Through hole.
- ⋯ — : Pattern on the side which is seen.
- ⋯ — : Pattern of the rear side.



3-5. SCHEMATIC DIAGRAM — DIGITAL SECTION —

- Refer to page 29 for IC BLOCK DIAGRAM
- Refer to page 32 for Semiconductor Lead Layouts
- Refer to page 31 for Waveform



— DIGITAL SECTION —

- Note:**
- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and 1/4W or less unless otherwise specified.
 - Δ : internal component.
 - $\square$: fusible resistor.

Note:
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Ne les remplacer que par une pièce portant le numéro spécifié.

- —: B+ line
- ---: B- line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark: STOP
- <: PLAY
- (): During load-out operation
- (): During load-in operation
- Circled numbers refer to waveforms.
- Signal path.
- $\square$: CD
- $\square$: digital out
- Those of the audio power board which have no specifications are 1/2W.

3-6. PRINTED WIRING BOARD — DIGITAL SECTION —

- Refer to page 29 for IC BLOCK DIAGRAM
- Refer to page 32 for Semiconductor Lead Layouts

— DIGITAL SECTION —

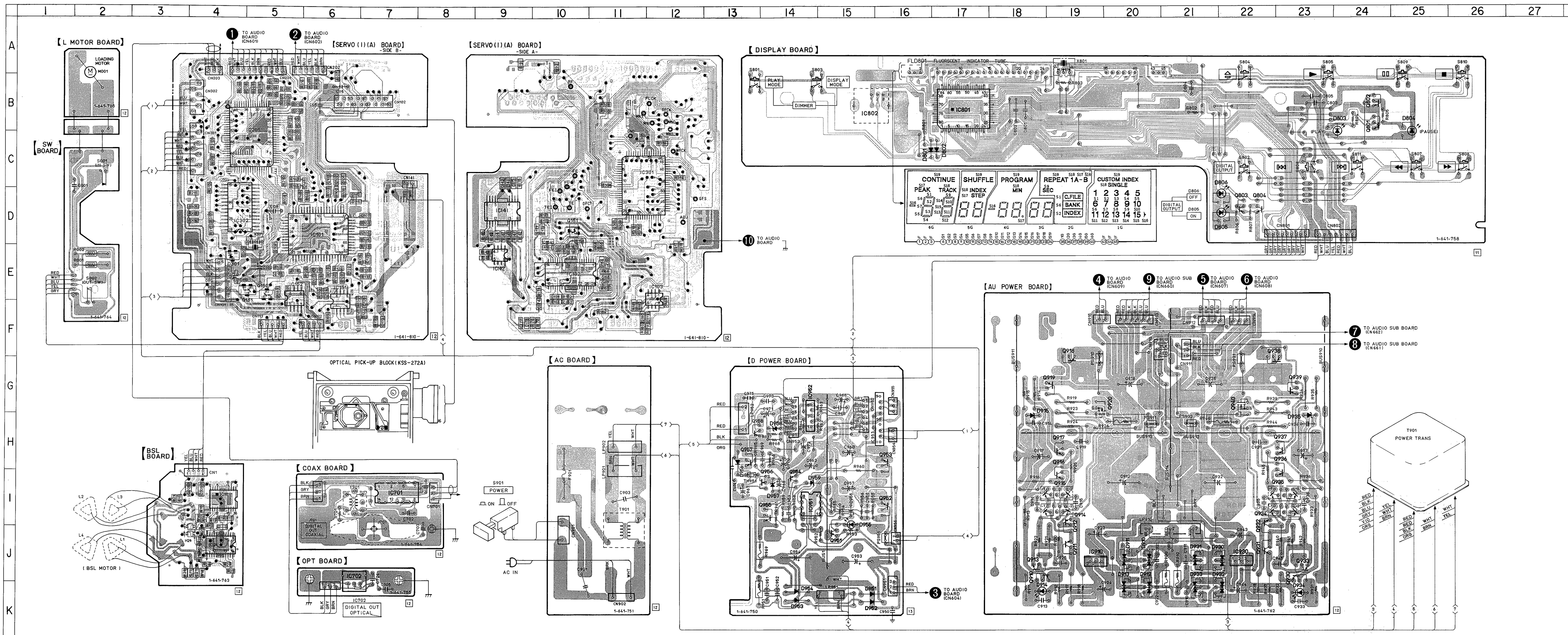
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D301	E-4	Q151	D-10
D801	C-18	Q181	E-4
D802	C-17	Q182	E-5
D803	B-24	Q801	B-24
D804	B-25	Q802	B-24
D805	D-22	Q803	D-22
D806	D-22	Q804	D-22
D910	J-20	Q910	J-18
D911	J-20	Q911	J-19
D912	K-20	Q912	I-19
D913	K-20	Q913	J-18
D914	K-18	Q914	I-19
D915	H-18	Q915	I-19
D930	J-21	Q916	H-19
D931	J-21	Q917	H-19
D932	K-21	Q918	F-19
D933	K-21	Q919	G-19
D934	K-23	Q920	G-19
D935	H-23	Q930	J-23
D951	K-15	Q931	J-22
D952	K-15	Q932	I-22
D953	K-14	Q933	J-23
D954	K-14	Q934	I-23
D955	J-15	Q935	I-23
D956	H-13	Q936	H-23
D957	I-14	Q937	H-23
D958	H-14	Q938	F-22
D959	I-14	Q939	G-23
		Q940	G-22
IC11	I-4	Q951	J-15
IC21	J-4	Q952	I-16
IC101	D-6	Q953	H-16
IC102	E-10	Q954	I-14
IC103	F-12	Q955	I-14
IC141	D-9	Q956	I-14
IC142	E-9	Q957	H-13
IC151	F-8	Q958	H-13
IC152	E-5		
IC201	C-5		
IC301	C-11		
IC302	D-4		
IC701	I-7		
IC702	J-6		
IC801	B-17		
IC802	B-15		
IC910	J-19		
IC930	J-22		
IC951	I-14		
IC952	H-14		
IC953	H-15		

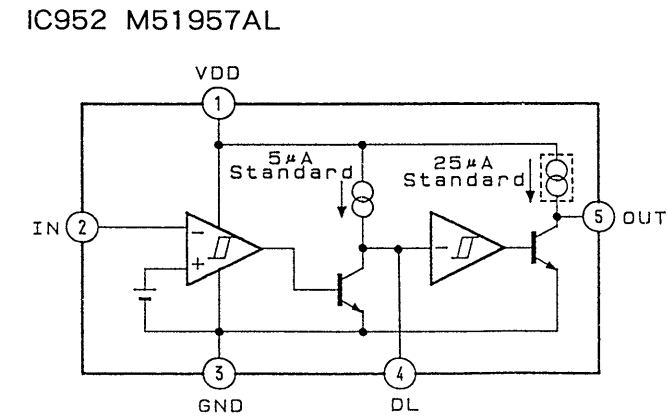
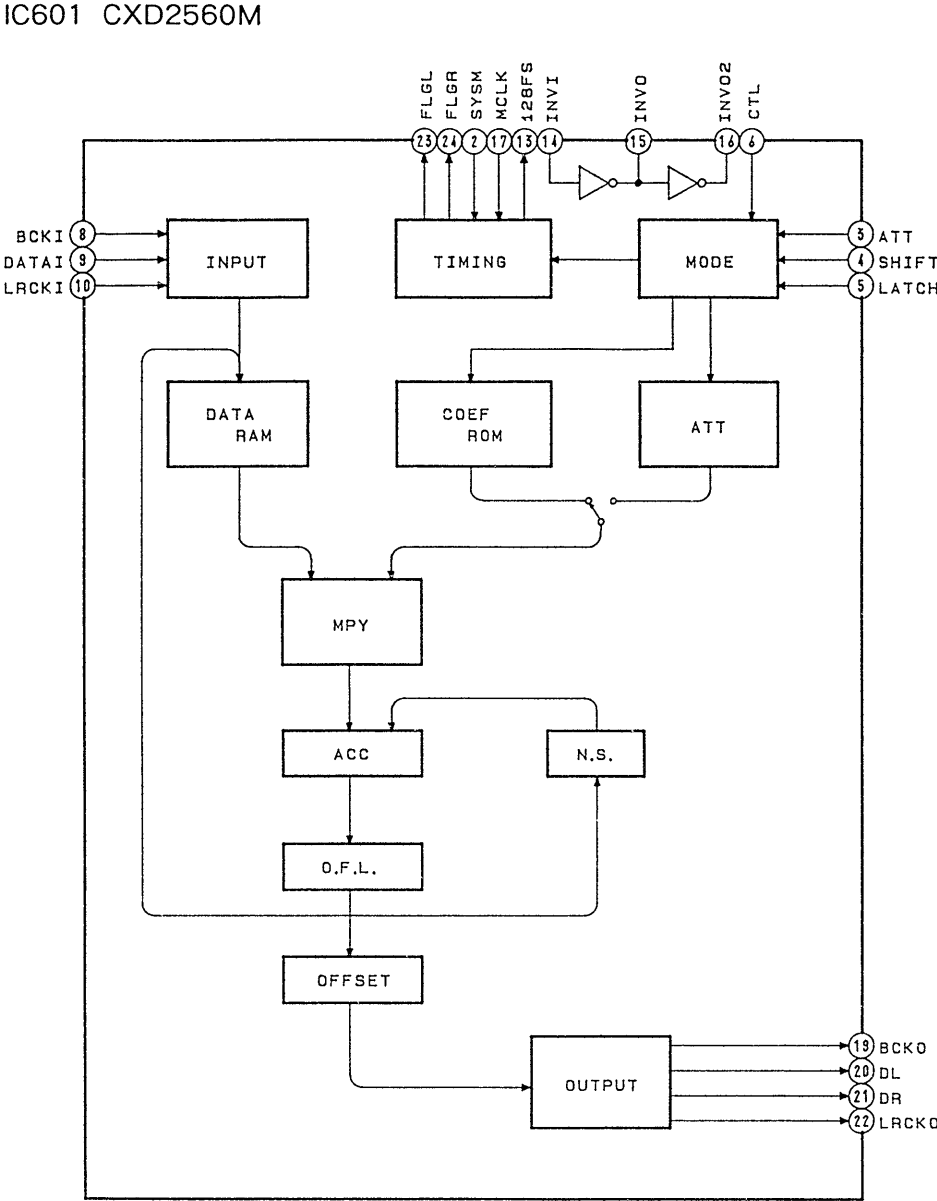
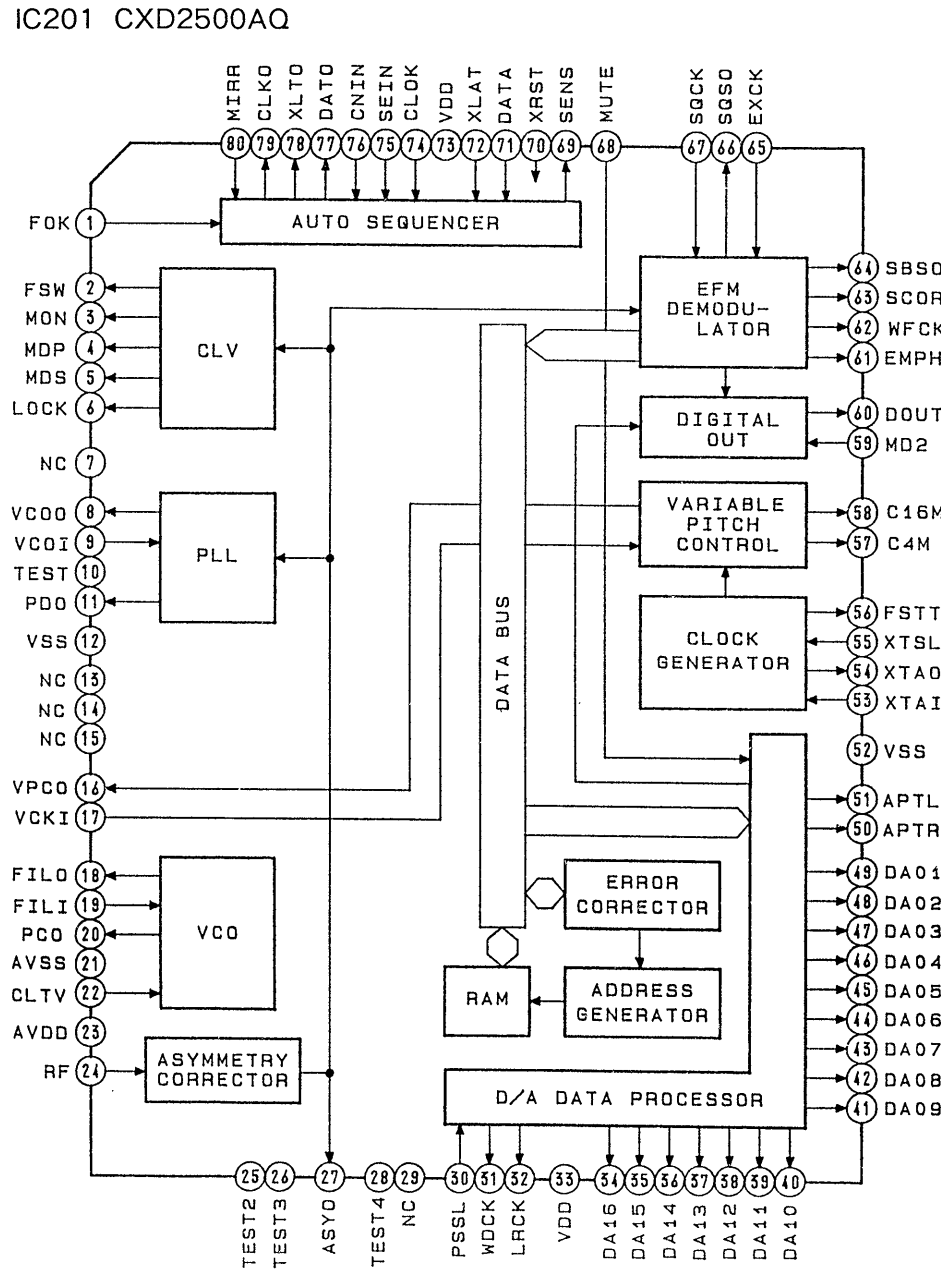
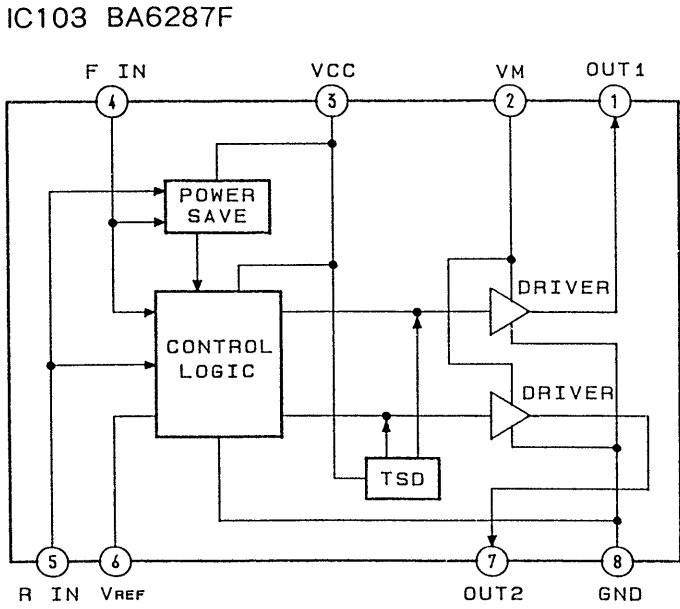
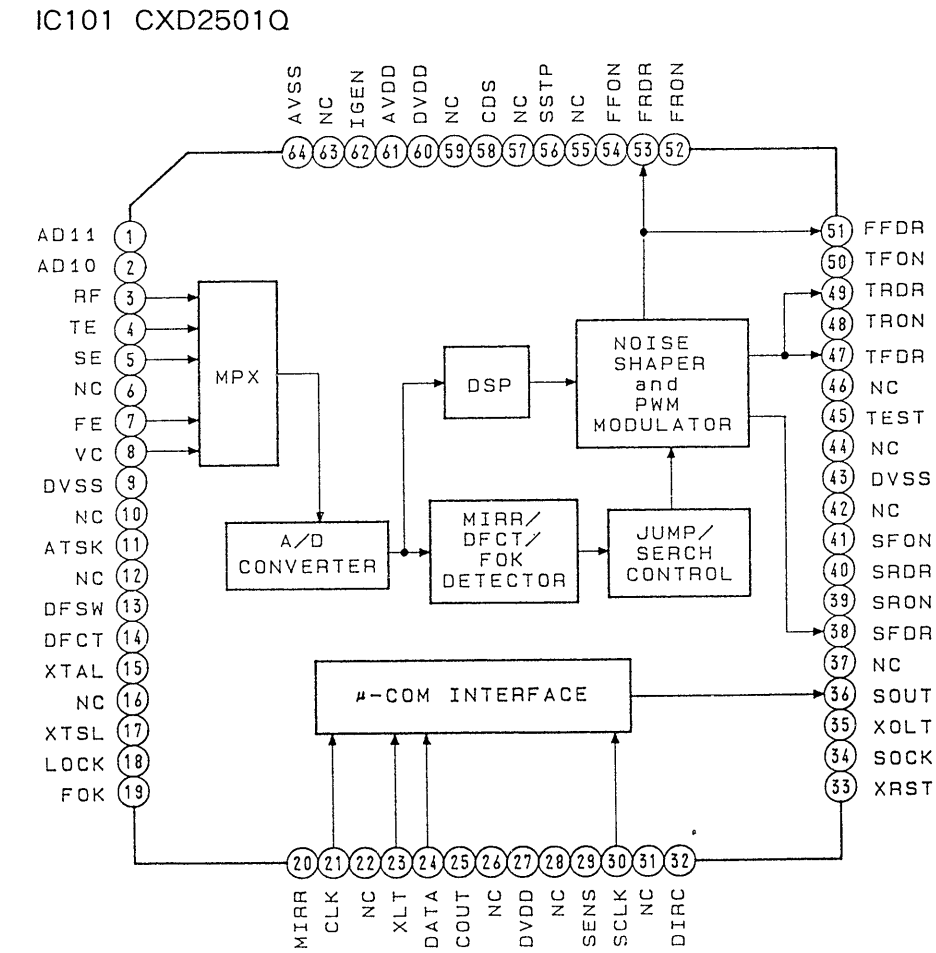
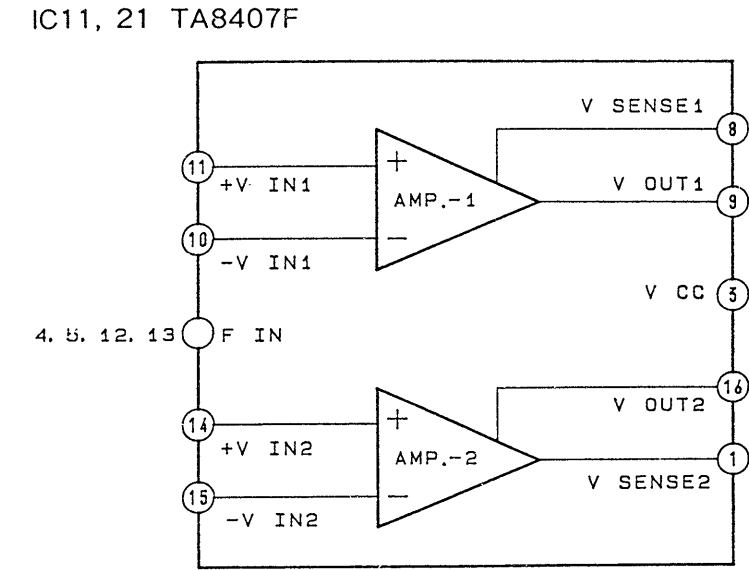
— DIGITAL SECTION —

Note:

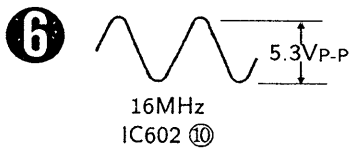
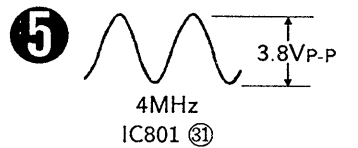
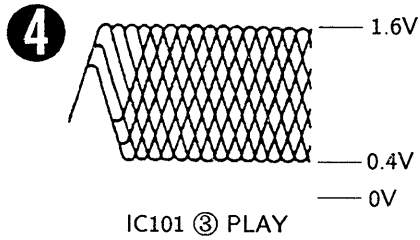
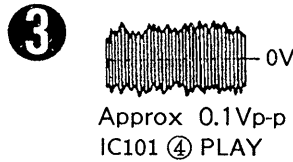
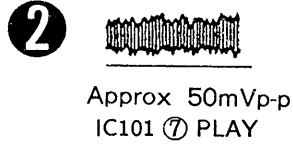
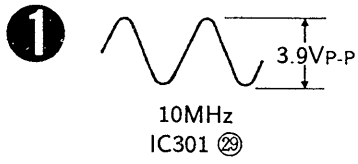
- ○ : parts extracted from the component side.
- ● : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ⊗ : Through hole.
- ▨ : Pattern on the side which is seen.
- ▩ : Pattern of the rear side.



3-7. IC BLOCK DIAGRAMS

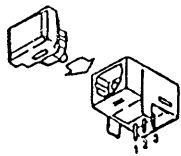


— WAVEFORM —

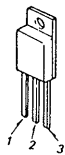


3-8. SEMICONDUCTOR LEAD LAYOUTS

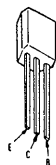
GP-1F31T



F10P10Q



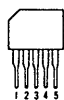
**DTA144ES
DTC114ES**



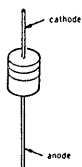
**2SB734-34
2SD774-34**



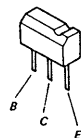
M51957AL



**HZS12A2L
LTZ-MR19
RD3.3ES-B2
RD5.6JS-B1
RD4.7JS-B2**



DTC114EF



**2SC1845-EA
2SC2545-E
2SC2878-B**



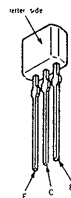
**M5F7818L
M5F7918L**



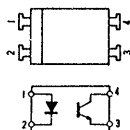
2SA1083E



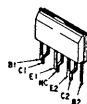
2SC3246-JK



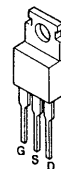
PC817



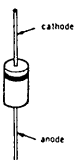
**2SA1349-GRBL
2SC3381-BL**



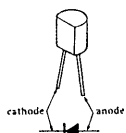
**2SJ76
2SK213**



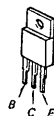
**ERB83-004
RD5.1JS-B2
10E2
1N4148M**



RD27JS-B2



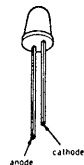
**2SA1606-E
2SA985A-QP
2SC3514-Q
2SC2275A-QP
2SC4159-E
2SD1944-K**



**2SK246-GR
2SK246-Y
2SK30A-0**



**EAA5638S
EBG5638S**



SECTION 4

EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts
Example:

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

↑
Parts color

↑
Cabinet's color

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

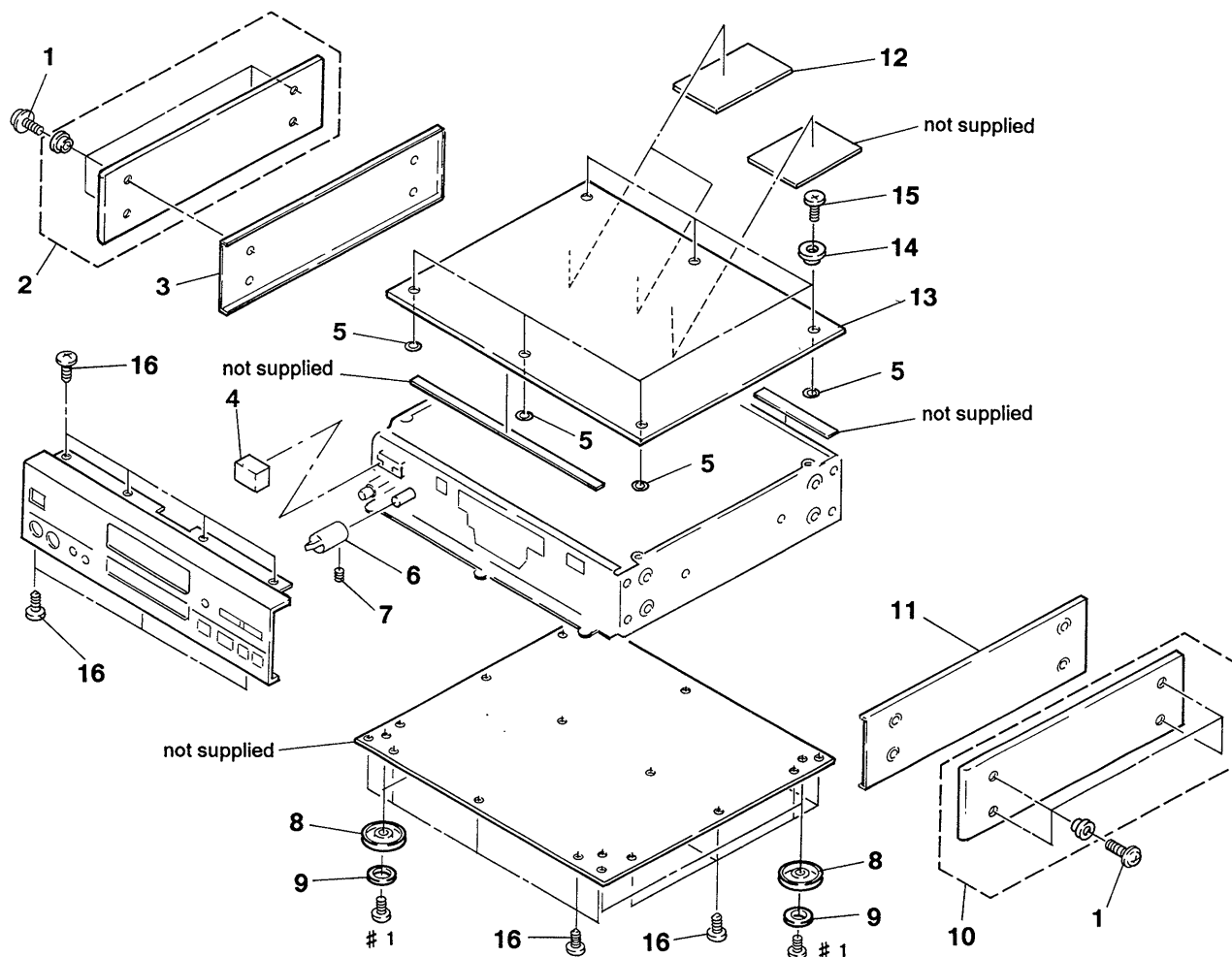
- The mechanical parts with no reference number in the exploded views are not supplied.

- Hardware (# mark) list is given in the last of this parts list.

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.

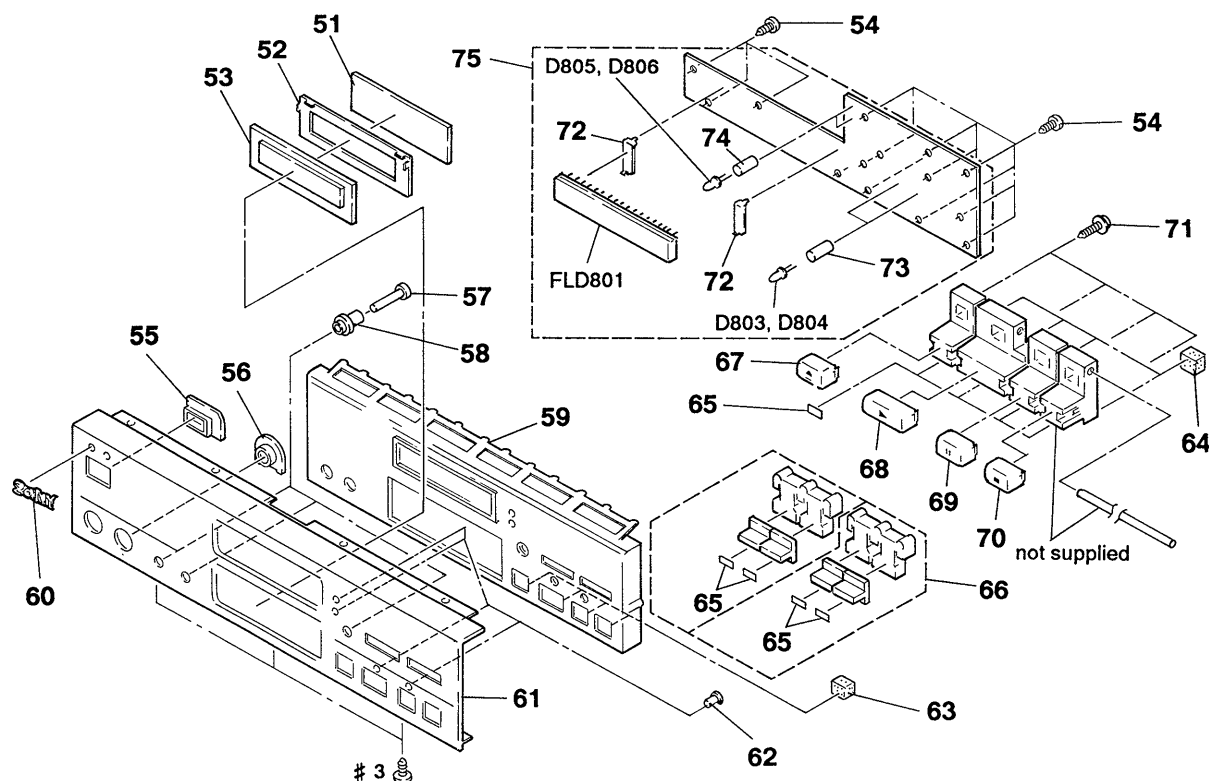
4-1. CABINET ASSEMBLY



Ref. No.	Part No.	Description	Remark
1	4-885-979-11	SCREW (4X25)	
2	X-4941-168-2	PLATE(L) ASSY, SIDE, ORNAMENTAL (US, Canadian, AEP: GOLD)	
2	X-4941-204-1	PRATE (L) ASSY, SIDE, ORNAMENTAL (AEP: BLACK)	
* 3	4-928-061-31	PLATE (LEFT), SIDE (US, Canadian, AEP: GOLD)	
* 3	4-928-061-21	PLATE (LEFT), SIDE (AEP: BLACK)	
4	X-4934-014-1	KNOB (POWER) ASSY (AEP: BLACK)	
4	X-4941-629-1	KNOB (POWER) ASSY (US, Canadian, AEP: GOLD)	
* 5	4-923-581-01	SPACER	
6	4-950-058-01	KNOB, VOLUME (AEP: BLACK)	
6	4-950-058-11	KNOB, VOLUME (US, Canadian, AEP: GOLD)	
7	3-701-505-00	SET SCREW, DOUBLE POINT 3X3	
8	4-928-028-01	BASE, FOOT (AEP: BLACK)	
8	4-928-028-11	BASE, FOOT (US, Canadian, AEP: GOLD)	
9	4-935-912-01	FOOT (CUSHION)	

Ref. No.	Part No.	Description	Remark
10	X-4941-169-2	PLATE(R) ASSY, SIDE, ORNAMENTAL (US, Canadian, AEP: GOLD)	
10	X-4941-205-1	PRATE (R) ASSY, SIDE, ORNAMENTAL (AEP: BLACK)	
* 11	4-928-062-31	PLATE (RIGHT), SIDE (US, Canadian, AEP: GOLD)	
* 11	4-928-062-21	PLATE (RIGHT), SIDE (AEP: BLACK)	
12	3-831-441-11	FELT (C), ACOUSTIC ABSORBENT	
* 13	4-928-020-01	PLATE, TOP (AEP: BLACK)	
13	4-928-020-11	PLATE, TOP (US, Canadian, AEP: GOLD)	
14	4-924-237-01	ESCUTCHEON (A) (US, Canadian, AEP: GOLD)	
14	4-924-237-11	ESCUTCHEON (A) (AEP: BLACK)	
15	4-924-242-01	SCREW (M3X6), FLAT HEAD (US, Canadian, AEP: GOLD)	
15	4-924-242-11	SCREW (M3X6), FLAT HEAD (AEP: BLACK)	
16	4-929-074-01	SCREW (3X8)	

4-2. FRONT PANEL ASSEMBLY

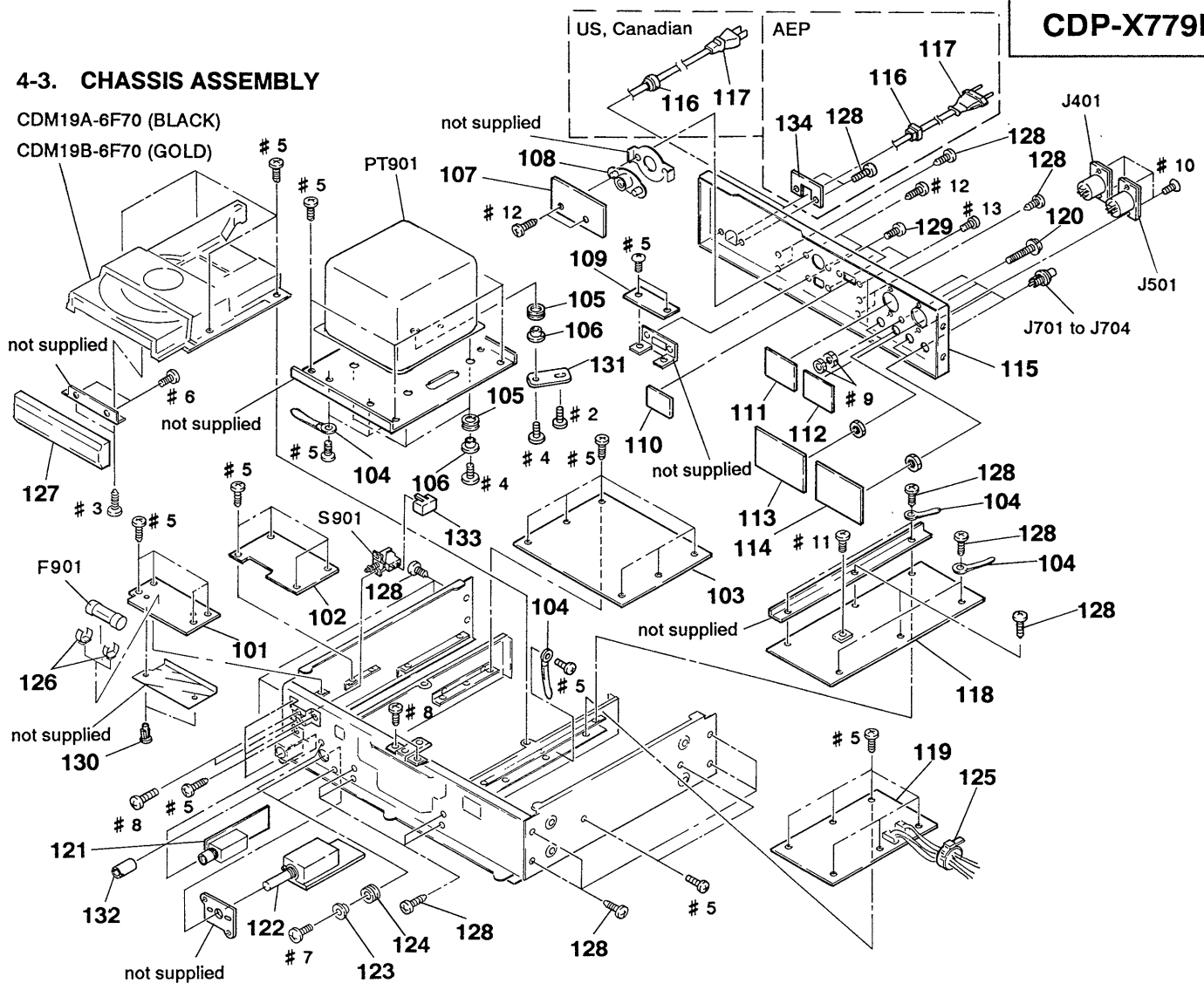


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-947-968-01	FILTER		64	9-911-845-XX	CUSHION	
52	4-947-969-01	PLATE, ORNAMENTAL		65	3-831-441-11	SPACER	
		(US, Canadian, AEP: GOLD)		66	A-4604-931-A	KNOB ASSY (US, Canadian, AEP: GOLD)	
52	4-947-969-11	PLATE, ORNAMENTAL (AEP: BLACK)		66	A-4660-038-A	KNOB ASSY (AEP: BLACK)	
53	4-947-967-01	WINDOW		67	4-947-958-01	CAP (S), KNOB (US, Canadian, AEP: GOLD)	
54	4-951-620-01	SCREW (2. 6X8), +BVTP					
55	4-928-038-01	ESCUTCHEON (POWER) (AEP: BLACK)		67	4-947-958-31	CAP (S), KNOB (AEP: BLACK)	
55	4-928-038-11	ESCUTCHEON (POWER)		68	4-947-957-01	CAP (L), KNOB (US, Canadian, AEP: GOLD)	
		(US, Canadian, AEP: GOLD)		68	4-947-957-11	CAP (L), KNOB (AEP: BLACK)	
56	4-942-459-01	ESCUTCHEON, KNOB (AEP: BLACK)		69	4-947-958-11	CAP (S), KNOB (US, Canadian, AEP: GOLD)	
56	4-942-459-11	ESCUTCHEON, KNOB (US, Canadian, AEP: GOLD)		69	4-947-958-51	CAP (S), KNOB (AEP: BLACK)	
57	4-947-986-01	BUTTON (DIA. 3) (US, Canadian, AEP: GOLD)		70	4-947-958-21	CAP (S), KNOB (US, Canadian, AEP: GOLD)	
				70	4-947-958-41	CAP (S), KNOB (AEP: BLACK)	
* 58	4-947-987-01	GUIDE (BUTTON DIA. 3)		71	4-933-134-11	SCREW (+PTPH M2. 6X8)	
59	X-4941-984-1	PANEL (BASE) ASSY		* 72	4-947-984-01	HOLDER (FL)	
		(US, Canadian, AEP: GOLD)		* 73	4-923-532-21	SPACER, LED	
59	X-4942-323-1	PANEL (BASE) ASSY (AEP: BLACK)		* 74	4-923-532-31	SPACER, LED	
60	4-908-848-21	EMBLEM, SONY (US, Canadian, AEP: GOLD)		* 75	A-4649-013-A	DISPLAY BOARD, COMPLETE	
60	4-908-848-01	EMBLEM, SONY (AEP: BLACK)		D803	8-719-913-49	DIODE EBG5638S (PLAY)	
61	4-947-960-01	PANEL, FRONT (US, Canadian, AEP: GOLD)		D804	8-719-913-47	DIODE EBG5638S (PAUSE)	
61	4-947-960-11	PANEL, FRONT (AEP: BLACK)		D805	8-719-913-47	DIODE EBG5638S (D/O ON)	
62	4-941-214-01	INDICATOR		D806	8-719-913-49	DIODE EBG5638S (D/O OFF)	
63	9-911-846-XX	CUSHION		FLD801	1-519-688-11	INDICATOR TUBE, FLUORESCENT	

4-3. CHASSIS ASSEMBLY

CDM19A-6F70 (BLACK)

CDM19B-6F70 (GOLD)



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.

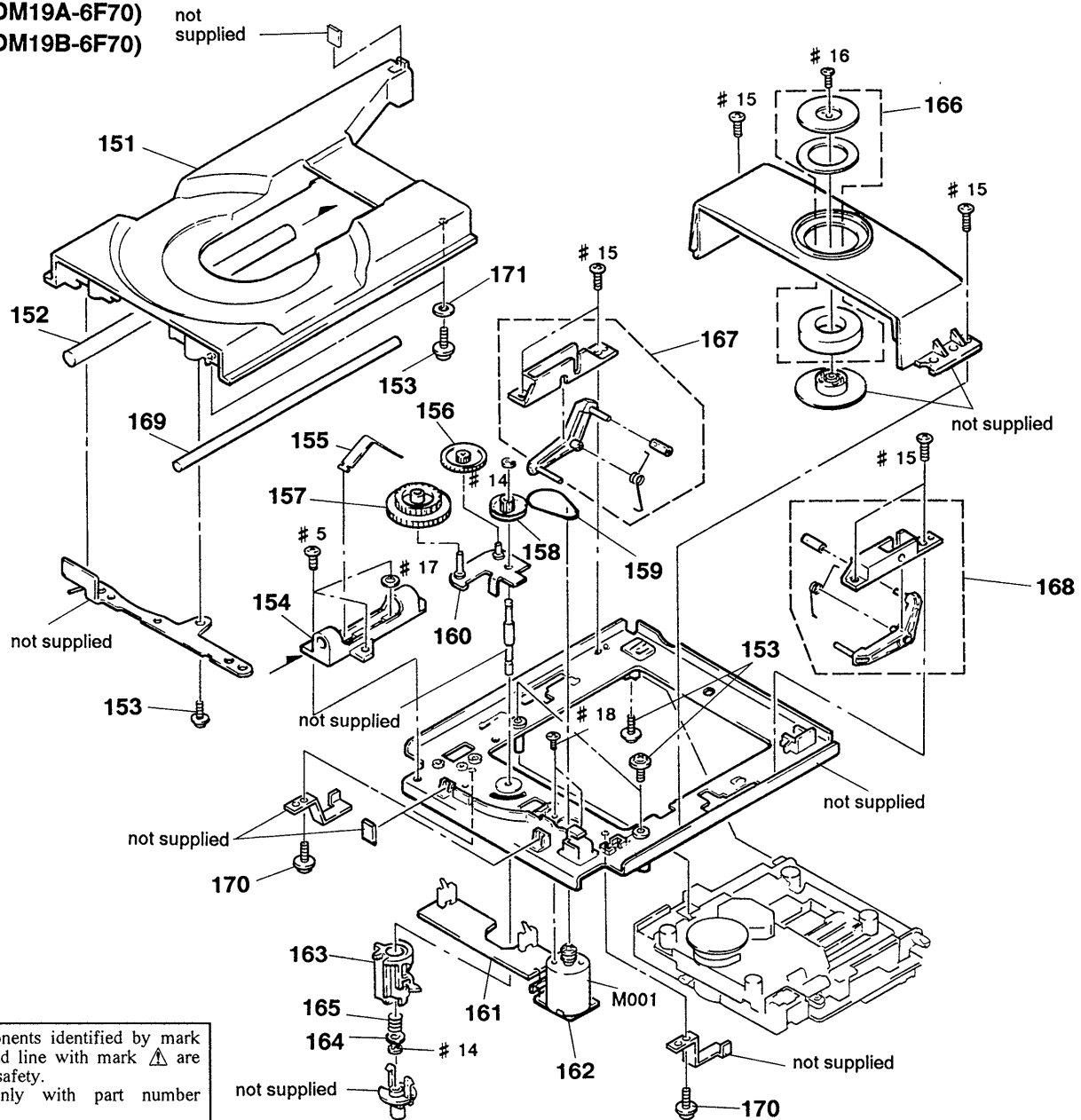
Ref. No.	Part No.	Description	Remark
* 101	1-641-751-11	AC BOARD	
* 102	A-4649-184-A	D POWER BOARD, COMPLETE	
* 103	A-4649-017-A	AU POWER BOARD, COMPLETE	
* 104	3-701-822-00	HOLDER, WIRE	
* 105	4-888-798-00	BUSHING, RUBBER	
106	4-928-068-01	COLLAR (C)	
* 107	1-641-754-11	COAX BOARD	
* 108	4-913-152-01	ESCUTCHEON, D/O	
* 109	1-641-755-11	OPT BOARD	
* 110	1-641-756-11	BALANCE SW BOARD	
* 111	1-641-752-11	BALANCE (L) BOARD	
* 112	1-641-753-11	BALANCE (R) BOARD	
* 113	1-641-749-11	VARIABLE BOARD	
* 114	1-641-748-11	FIX BOARD	
* 115	4-947-973-22	PANEL, BACK (AEP: BLACK)	
* 115	4-947-973-32	PANEL, BACK (US)	
* 115	4-947-973-42	PANEL, BACK (AEP: GOLD)	
* 115	4-947-973-52	PANEL, BACK (Canadian)	
* 116	3-703-244-00	BUSHING (2104), CORD (AEP)	
116	4-916-783-01	BUSHING, CORD (US, Canadian)	
 117	1-558-568-21	CORD, POWER (AEP)	
 117	1-690-958-11	CORD, POWER (US, Canadian)	
* 118	A-4649-018-A	AUDIO BOARD, COMPLETE	
* 119	A-4649-021-A	AUDIO SUB BOARD, COMPLETE	
120	4-886-821-51	SCREW, CASE, (M3X14)	
* 121	1-642-213-11	HP(B) BOARD (US, Canadian, AEP: GOLD)	
* 121	1-641-759-11	HP BOARD (AEP: BLACK)	
* 122	1-641-761-11	M. VR BOARD	

Ref. No.	Part No.	Description	Remark
* 123	4-928-026-01	COLLAR (B)	
* 124	4-888-798-11	BUSHING, RUBBER	
125	3-655-653-21	BAND (TAITON), BINDING	
126	1-533-183-11	HOLDER, FUSE	
127	4-947-966-01	PANEL, LOADING (US, Canadian, AEP: GOLD)	
127	4-947-966-11	PANEL, LOADING (AEP: BLACK)	
128	4-929-074-01	SCREW (3X8)	
129	3-703-685-21	SCREW (+BV 3X8)	
130	3-531-576-11	RIVET	
* 131	4-952-424-01	PLATE (TRANSFORMER), GROUND	
* 132	4-942-456-01	BRACKET (VOL)	
133	3-575-524-00	COVER, POWER SWITCH	
* 134	4-923-873-01	BRACKET, CORD STOPPER (AEP: BLACK)	
* 134	4-923-873-11	BRACKET, CORD STOPPER (AEP: GOLD)	
 F901	1-532-215-00	FUSE, TIME-LAG (AEP)	
 F901	1-532-825-11	FUSE, GLASS TUBE (US, Canadian)	
J401	1-563-030-11	CONNECTOR (RECEPTACLE) 3P (BALANCE OUT L)	
J501	1-563-030-11	CONNECTOR (RECEPTACLE) 3P (BALANCE OUT R)	
J701	1-568-918-11	JACK, PIN 1P (FIXED R)	
J702	1-568-918-11	JACK, PIN 1P (FIXED L)	
J703	1-568-918-11	JACK, PIN 1P (VARIABLE R)	
J704	1-568-918-11	JACK, PIN 1P (VARIABLE L)	
 PT901	1-450-775-11	TRANSFORMER, POWER (US, Canadian)	
 PT901	1-450-776-11	TRANSFORMER, POWER (AEP)	
 S901	1-554-538-00	SWITCH, PUSH (AC POWER) (1 KEY)	

4-4. MECHANISM BLOCK ASSEMBLY (1)

(CDM19A-6F70)

(CDM19B-6F70)



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.

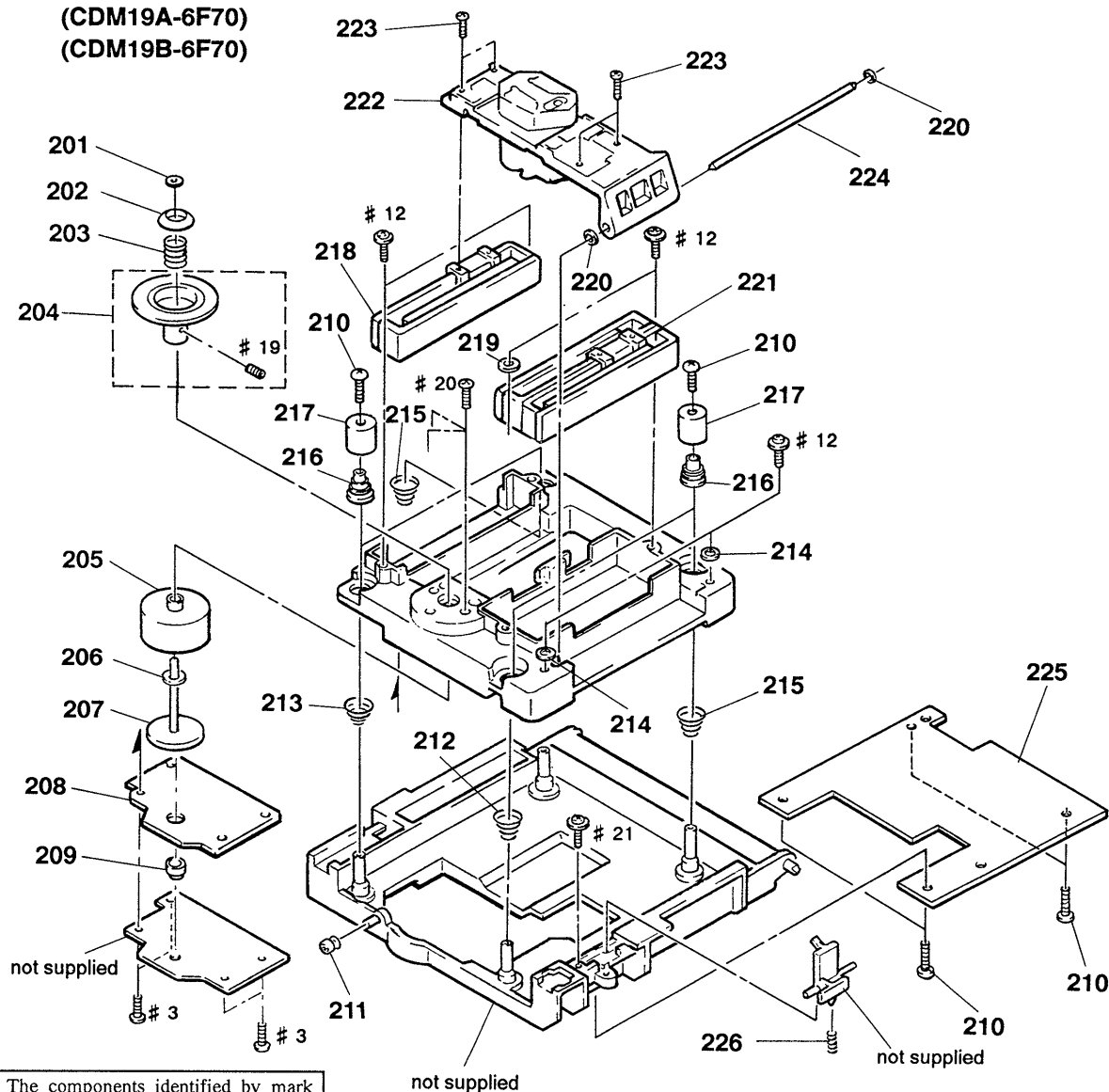
Ref. No.	Part No.	Description	Remark
151	4-948-353-01	TABLE, DISK (AEP: BLACK)	
151	4-948-353-11	TABLE, DISK (US, Canadian, AEP: GOLD)	
* 152	4-948-368-01	BAR (MAIN), GUIDE	
* 153	4-917-583-21	BRACKET, YOKE	
* 154	4-948-360-01	BEARING, LOADING	
* 155	4-927-648-01	SLIDER (GROUND)	
156	4-927-628-01	GEAR (C)	
157	4-927-620-01	GEAR (P)	
158	4-929-724-01	PULLEY (B)	
159	4-927-649-01	BELT	
160	X-4927-608-1	ARM ASSY, SWING	
* 161	1-641-764-11	SW BOARD	

Ref. No.	Part No.	Description	Remark
* 162	1-641-765-11	L. MOTOR BOARD	
* 163	4-948-371-01	CAM (BU)	
164	4-927-654-01	WASHER (LIMITER)	
165	3-659-338-00	SPRING, COMPRESSION	
166	A-4604-912-A	MAGNET ASSY	
167	A-4604-913-A	LOCK (L) ASSY, STABLE	
168	A-4604-914-A	LOCK (R) ASSY, STABLE	
* 169	4-948-369-01	BAR (SUB), GUIDE	
170	3-703-685-21	SCREW (+BV 3X8)	
171	4-927-318-01	WASHER	
M001	A-4604-347-A	MOTOR (L) ASSY (LOADING)	

4-5. MECHANISM BLOCK ASSEMBLY (2)

(CDM19A-6F70)

(CDM19B-6F70)



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.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	4-947-420-01	RING (DIA. 2.53), RETAINING		215	4-917-571-01	SPRING (A)	
202	4-948-381-01	CAP. CENTERING		* 216	4-917-584-11	INSULATOR	
203	4-908-213-01	SPRING, COMPRESSION		217	4-927-634-01	HOLDER (SP)	
204	X-4942-048-1	PULLEY ASSY, DISK		218	A-4638-084-A	SENSOR ASSY, SPEED	
205	4-948-382-02	BEARING (SPINDLE)		219	4-927-669-01	WASHER (BU)	
206	3-701-439-11	WASHER		* 220	4-917-582-01	CUSHION, SLIDE	
* 207	A-4660-055-B	PULLEY ASSY, MOTOR		221	A-4608-335-A	MOTOR ASSY, LINEAR	
* 208	A-4617-993-A	BSL BOARD, COMPLETE		▲ 222	8-848-244-11	DEVICE, OPTICAL KSS-272A	
209	4-943-342-01	BEARING		223	3-318-203-61	SCREW (B1.7X4), TAPPING	
210	4-951-620-01	SCREW (2.6X8), +BVTP		* 224	4-910-431-01	SHAFT, SLIDE	
211	4-927-631-01	ROLLER (L)		* 225	A-4649-006-A	SERVO (1) (A) BOARD, COMPLETE	
212	4-917-573-01	SPRING (E)		226	3-305-423-00	SPRING, COMPRESSION	
213	4-948-375-01	SPRING (F), COIL					
214	4-927-318-01	WASHER					

SECTION 5

ELECTRICAL PARTS LIST

AC AU POWER

NOTE:

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.

When indicating parts by reference number, please include the board name.

• 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.

• -XX, -X mean standardized parts, so they may have some difference from the original one.

RESISTORS

All resistors are in ohms

METAL: Metal-film resistor

METAL OXIDE: Metal Oxide-film resistor

F: nonflammable

• Color Indication of Appearance Parts Example:
KNOB, BALANCE (WHITE) ... (RED)

↑
Parts color

↑
Cabinet's color

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

SEMICONDUCTORS

In each case, u: μ , for example:

uA...: μ A..., uPA...: μ PA...,

uPB...: μ PB..., uPC...: μ PC...,

uPD...: μ PD...

CAPACITORS

uF: μ F

COILS

uH: μ H

• Hardware (# mark) list is given in the last of this parts list.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	1-641-751-11	AC BOARD *****		C918	1-125-663-11	ELECT 1200uF 20% 63V	
		< CAPACITOR >		C919	1-107-210-00	MICA 22PF 5% 500V	
Δ C901	1-161-744-00	CERAMIC 0.01uF 400V		C921	1-136-177-00	FILM 1uF 5% 50V	
Δ C903	1-162-599-12	CERAMIC 0.0047uF 20% 400V		C922	1-106-343-00	MYLAR 1000PF 5% 200V	
		< CONNECTOR >		C923	1-124-911-11	ELECT 220uF 20% 50V	
CN901	1-564-321-00	PIN, CONNECTOR 2P		C924	1-124-572-11	ELECT 100uF 20% 63V	
* CN902	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P		C925	1-107-202-00	MICA 10PF 5% 500V	
		< BASE POST >		C932	1-125-709-11	ELECT 4700uF 20% 63V	
LP901	1-535-139-00	BASE POST 22MM (10MM PITCH) 2P		C933	1-130-495-00	MYLAR 0.1uF 5% 50V	
LP902	1-535-139-00	BASE POST 22MM (10MM PITCH) 2P		C934	1-107-169-00	MICA 100PF 5% 500V	
		< COIL >		C935	1-107-169-00	MICA 100PF 5% 500V	
T901	1-421-915-11	COIL, LINE FILTER		C936	1-107-169-00	MICA 100PF 5% 500V	
		< FUSE >		C937	1-124-911-11	ELECT 220uF 20% 50V	
Δ F901	1-532-215-00	FUSE, TIME-LAG (AEP)		C938	1-125-663-11	ELECT 1200uF 20% 63V	
Δ F902	1-532-825-11	FUSE, GLASS TUBE (US, Canadian)		C939	1-107-210-00	MICA 22PF 5% 500V	
*****				C943	1-124-911-11	ELECT 220uF 20% 50V	
*	A-4649-017-A	AU POWER BOARD, COMPLETE *****		C944	1-124-572-11	ELECT 100uF 20% 63V	
		< BUS BAR >		C945	1-107-202-00	MICA 10PF 5% 500V	
* BUS910	1-566-959-11	BAR, BUS		< CONNECTOR >			
* BUS911	1-566-959-11	BAR, BUS		* CN910	1-573-262-41	PIN, CONNECTOR 3P	
* BUS912	1-580-302-11	BAR, BUS 4P		* CN911	1-573-262-21	PIN, CONNECTOR 3P	
* BUS913	1-580-302-11	BAR, BUS 4P		* CN912	1-573-263-11	PIN, CONNECTOR 4P	
* BUS914	1-691-279-11	BUS BAR 5P		* CN913	1-573-265-11	PIN, CONNECTOR 6P	
		< CAPACITOR >		* CN914	1-573-262-31	PIN, CONNECTOR 3P	
C910	1-136-177-00	FILM 1uF 5% 50V		* CN915	1-573-261-11	PIN, CONNECTOR 2P	
C911	1-106-343-00	MYLAR 1000PF 5% 200V		< DIODE >			
C912	1-125-709-11	ELECT 4700uF 20% 63V		D910	8-719-210-29	DIODE F10P10Q	
C913	1-130-495-00	MYLAR 0.1uF 5% 50V		D911	8-719-210-29	DIODE F10P10Q	
C914	1-107-169-00	MICA 100PF 5% 500V		D912	8-719-210-29	DIODE F10P10Q	
C915	1-107-169-00	MICA 100PF 5% 500V		D913	8-719-210-29	DIODE F10P10Q	
C916	1-107-169-00	MICA 100PF 5% 500V		D914	8-719-988-53	DIODE LTZ-MR19	
C917	1-124-911-11	ELECT 220uF 20% 50V		D915	8-719-114-36	DIODE RD5.6JS-B1	
				D930	8-719-210-29	DIODE F10P10Q	
				D931	8-719-210-29	DIODE F10P10Q	
				D932	8-719-210-29	DIODE F10P10Q	
				D933	8-719-210-29	DIODE F10P10Q	
				D934	8-719-988-53	DIODE LTZ-MR19	
				D935	8-719-114-36	DIODE RD5.6JS-B1	

AU POWER

AUDIO

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< IC >							
IC910	8-759-604-87	IC M5F7818L		R924	1-249-799-11	CARBON 750 1% 1/2W	
IC930	8-759-604-91	IC M5F7918L		R925	1-259-547-11	CARBON 470 1% 1/2W	
< BASE POST >				△R926	1-217-997-11	FUSIBLE 10 5% 1/2W	
* LP910	1-535-140-00	BASE POST 22MM (10MM PITCH) 3P		R931	1-259-585-11	CARBON 18K 1% 1/2W	
< IC LINK >				R932	1-259-539-11	CARBON 220 1% 1/2W	
△PS910	1-532-675-00	LINK, IC 1. 5A		R933	1-259-541-11	CARBON 270 1% 1/2W	
△PS911	1-532-637-00	LINK, IC 1. 0A		R934	1-259-571-11	CARBON 4. 7K 1% 1/2W	
△PS931	1-532-675-00	LINK, IC 1. 5A		R935	1-259-557-11	CARBON 1. 2K 1% 1/2W	
△PS932	1-532-637-00	LINK, IC 1. 0A		R936	1-259-519-11	CARBON 33 1% 1/2W	
< TRANSISTOR >				R937	1-259-507-11	CARBON 10 1% 1/2W	
Q910	8-729-322-40	TRANSISTOR 2SA1083E		R938	1-259-507-11	CARBON 10 1% 1/2W	
Q911	8-729-354-52	TRANSISTOR 2SC2545-E		R939	1-259-507-11	CARBON 10 1% 1/2W	
Q912	8-729-322-40	TRANSISTOR 2SA1083E		R940	1-259-507-11	CARBON 10 1% 1/2W	
Q913	8-729-354-52	TRANSISTOR 2SC2545-E		R941	1-259-555-11	CARBON 1K 1% 1/2W	
Q914	8-729-202-72	TRANSISTOR 2SC3381-BL		R942	1-259-555-11	CARBON 1K 1% 1/2W	
Q915	8-729-202-72	TRANSISTOR 2SC3381-BL		R943	1-259-507-11	CARBON 10 1% 1/2W	
Q916	8-729-354-52	TRANSISTOR 2SC2545-E		R944	1-249-799-11	CARBON 750 1% 1/2W	
Q917	8-729-354-52	TRANSISTOR 2SC2545-E		R945	1-259-547-11	CARBON 470 1% 1/2W	
Q918	8-729-141-10	TRANSISTOR 2SA985A-QP		△R946	1-217-997-11	FUSIBLE 10 5% 1/2W	
Q919	8-729-201-05	TRANSISTOR 2SC2878-B		*****			
Q920	8-729-307-65	TRANSISTOR 2SJ76		* A-4649-018-A	AUDIO BOARD, COMPLETE		
Q930	8-729-354-52	TRANSISTOR 2SC2545-E		*****			
Q931	8-729-354-52	TRANSISTOR 2SC2545-E		< BUS BAR >			
Q932	8-729-354-52	TRANSISTOR 2SC2545-E		* BUS1	1-569-137-11	BUS BAR 2P	
Q933	8-729-322-40	TRANSISTOR 2SA1083E		* BUS2	1-569-137-11	BUS BAR 2P	
Q934	8-729-232-00	TRANSISTOR 2SA1349-GRBL		* BUS3	1-569-137-11	BUS BAR 2P	
Q935	8-729-232-00	TRANSISTOR 2SA1349-GRBL		* BUS3	1-691-275-11	BUS BAR	
Q936	8-729-322-40	TRANSISTOR 2SA1083E		* BUS4	1-569-137-11	BUS BAR 2P	
Q937	8-729-322-40	TRANSISTOR 2SA1083E		< CAPACITOR >			
Q938	8-729-141-58	TRANSISTOR 2SC2275A-QP		C402	1-136-165-00	FILM 0. 1uF 5% 50V	
Q939	8-729-322-40	TRANSISTOR 2SA1083E		C403	1-126-052-11	ELECT 100uF 20% 50V	
Q940	8-729-321-35	TRANSISTOR 2SK213		C404	1-162-806-11	CERAMIC 0. 1uF 10% 50V	
< RESISTOR >				C405	1-162-806-11	CERAMIC 0. 1uF 10% 50V	
△R900	1-212-877-11	FUSIBLE 68 5% 1/4W F		C406	1-162-806-11	CERAMIC 0. 1uF 10% 50V	
△R910	1-212-875-00	FUSIBLE 56 5% 1/4W F		C407	1-162-806-11	CERAMIC 0. 1uF 10% 50V	
R911	1-259-585-11	CARBON 18K 1% 1/2W		C408	1-126-052-11	ELECT 100uF 20% 50V	
R912	1-259-539-11	CARBON 220 1% 1/2W		C409	1-162-806-11	CERAMIC 0. 1uF 10% 50V	
R913	1-259-541-11	CARBON 270 1% 1/2W		C410	1-126-052-11	ELECT 100uF 20% 50V	
R914	1-259-571-11	CARBON 4. 7K 1% 1/2W		C411	1-162-806-11	CERAMIC 0. 1uF 10% 50V	
R915	1-259-557-11	CARBON 1. 2K 1% 1/2W		C412	1-162-806-11	CERAMIC 0. 1uF 10% 50V	
R916	1-259-519-11	CARBON 33 1% 1/2W		C413	1-126-052-11	ELECT 100uF 20% 50V	
R917	1-259-507-11	CARBON 10 1% 1/2W		C414	1-162-806-11	CERAMIC 0. 1uF 10% 50V	
R918	1-259-507-11	CARBON 10 1% 1/2W		C415	1-162-806-11	CERAMIC 0. 1uF 10% 50V	
R919	1-259-507-11	CARBON 10 1% 1/2W		C416	1-126-052-11	ELECT 100uF 20% 50V	
R920	1-259-507-11	CARBON 10 1% 1/2W		C417	1-136-165-00	FILM 0. 1uF 5% 50V	
R921	1-259-555-11	CARBON 1K 1% 1/2W		C418	1-124-122-11	ELECT 100uF 20% 50V	
R922	1-259-555-11	CARBON 1K 1% 1/2W		C420	1-136-810-11	FILM 220PF 5% 100V	
R923	1-259-507-11	CARBON 10 1% 1/2W		C421	1-136-810-11	FILM 220PF 5% 100V	

The components identified by mark

Les composants identifiés par une

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.

AUDIO

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C424	1-136-810-11	FILM	220PF 5% 100V	C607	1-136-165-00	FILM	0.1uF 5% 50V
C425	1-136-810-11	FILM	220PF 5% 100V	C608	1-124-122-11	ELECT	100uF 20% 50V
C426	1-136-811-11	FILM	330PF 5% 100V	C609	1-136-165-00	FILM	0.1uF 5% 50V
C427	1-136-811-11	FILM	330PF 5% 100V	C610	1-126-052-11	ELECT	100uF 20% 50V
C428	1-136-192-11	FILM	0.0018uF 2% 100V	C611	1-124-572-11	ELECT	100uF 20% 63V
C429	1-136-192-11	FILM	0.0018uF 2% 100V	C612	1-162-806-11	CERAMIC	0.1uF 10% 50V
C430	1-136-192-11	FILM	0.0018uF 2% 100V	C613	1-107-202-00	MICA	10PF 5% 500V
C432	1-137-508-11	FILM	2.2uF 10% 63V	C614	1-107-202-00	MICA	10PF 5% 500V
C433	1-107-169-00	MICA	100PF 5% 500V	C615	1-125-663-11	ELECT	1200uF 20% 63V
C434	1-107-202-00	MICA	10PF 5% 500V	C616	1-107-202-00	MICA	10PF 5% 500V
C435	1-107-169-00	MICA	100PF 5% 500V	C617	1-130-483-00	MYLAR	0.01uF 5% 50V
C450	1-130-480-00	MYLAR	0.0056uF 5% 50V	C618	1-130-483-00	MYLAR	0.01uF 5% 50V
C501	1-124-122-11	ELECT	100uF 20% 50V	C619	1-162-806-11	CERAMIC	0.1uF 10% 50V
C502	1-136-165-00	FILM	0.1uF 5% 50V	C620	1-124-572-11	ELECT	100uF 20% 63V
C503	1-126-052-11	ELECT	100uF 20% 50V	C621	1-137-507-11	FILM	1uF 10% 63V
C504	1-162-806-11	CERAMIC	0.1uF 10% 50V	C622	1-137-507-11	FILM	1uF 10% 63V
C505	1-162-806-11	CERAMIC	0.1uF 10% 50V	C623	1-137-507-11	FILM	1uF 10% 63V
C506	1-162-806-11	CERAMIC	0.1uF 10% 50V	C624	1-137-507-11	FILM	1uF 10% 63V
C507	1-162-806-11	CERAMIC	0.1uF 10% 50V	C625	1-164-159-11	CERAMIC	0.1uF 50V
C508	1-126-052-11	ELECT	100uF 20% 50V	C626	1-164-159-11	CERAMIC	0.1uF 50V
C509	1-162-806-11	CERAMIC	0.1uF 10% 50V	< CONNECTOR >			
C510	1-126-052-11	ELECT	100uF 20% 50V	* CN401	1-573-263-11	PIN, CONNECTOR 4P	
C511	1-162-806-11	CERAMIC	0.1uF 10% 50V	* CN402	1-573-262-41	PIN, CONNECTOR 3P	
C512	1-162-806-11	CERAMIC	0.1uF 10% 50V	* CN403	1-573-262-11	PIN, CONNECTOR 3P	
C513	1-126-052-11	ELECT	100uF 20% 50V	* CN501	1-573-263-21	PIN, CONNECTOR 4P	
C514	1-162-806-11	CERAMIC	0.1uF 10% 50V	* CN502	1-573-262-31	PIN, CONNECTOR 3P	
C515	1-162-806-11	CERAMIC	0.1uF 10% 50V	* CN503	1-573-262-21	PIN, CONNECTOR 3P	
C516	1-126-052-11	ELECT	100uF 20% 50V	* CN601	1-569-997-11	PIN, CONNECTOR (PC BOARD) 10P	
C517	1-136-165-00	FILM	0.1uF 5% 50V	* CN602	1-569-993-11	PIN, CONNECTOR (PC BOARD) 6P	
C521	1-136-810-11	FILM	220PF 5% 100V	* CN603	1-573-261-11	PIN, CONNECTOR 2P	
C522	1-136-810-11	FILM	220PF 5% 100V	* CN604	1-573-262-11	PIN, CONNECTOR 3P	
C525	1-136-810-11	FILM	220PF 5% 100V	* CN606	1-573-261-41	PIN, CONNECTOR 2P	
C526	1-136-810-11	FILM	220PF 5% 100V	* CN607	1-573-263-11	PIN, CONNECTOR 4P	
C527	1-136-811-11	FILM	330PF 5% 100V	* CN608	1-573-262-31	PIN, CONNECTOR 3P	
C528	1-136-811-11	FILM	330PF 5% 100V	* CN609	1-573-261-11	PIN, CONNECTOR 2P	
C529	1-136-192-11	FILM	0.0018uF 2% 100V	< DIODE >			
C530	1-136-192-11	FILM	0.0018uF 2% 100V	D401	8-719-988-53	DIODE LTZ-MR19	
C531	1-136-192-11	FILM	0.0018uF 2% 100V	D402	8-719-988-53	DIODE LTZ-MR19	
C533	1-137-508-11	FILM	2.2uF 10% 63V	D403	8-719-987-63	DIODE 1N4148M	
C534	1-107-169-00	MICA	100PF 5% 500V	D405	8-719-987-63	DIODE 1N4148M	
C535	1-107-202-00	MICA	10PF 5% 500V	D450	8-719-987-63	DIODE 1N4148M	
C536	1-107-169-00	MICA	100PF 5% 500V	D501	8-719-988-53	DIODE LTZ-MR19	
C550	1-130-480-00	MYLAR	0.0056uF 5% 50V	D502	8-719-988-53	DIODE LTZ-MR19	
C600	1-164-159-11	CERAMIC	0.1uF 50V	D503	8-719-987-63	DIODE 1N4148M	
C601	1-124-122-11	ELECT	100uF 20% 50V	D505	8-719-987-63	DIODE 1N4148M	
C602	1-136-165-00	FILM	0.1uF 5% 50V	D550	8-719-987-63	DIODE 1N4148M	
C603	1-162-294-31	CERAMIC	0.001uF 10% 50V	D600	8-719-987-63	DIODE 1N4148M	
C604	1-136-165-00	FILM	0.1uF 5% 50V	D601	8-719-987-63	DIODE 1N4148M	
C605	1-161-494-00	CERAMIC	0.022uF 25V				
C606	1-161-494-00	CERAMIC	0.022uF 25V				

AUDIO

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D602	8-719-987-63	DIODE 1N4148M		Q503	8-729-184-53	TRANSISTOR 2SC1845-EA	
D603	8-719-988-53	DIODE LTZ-MR19		Q504	8-729-184-53	TRANSISTOR 2SC1845-EA	
D604	8-719-114-26	DIODE RD4. 7JS-B2		Q505	8-729-321-35	TRANSISTOR 2SK213	
				Q506	8-729-307-65	TRANSISTOR 2SJ76	
D605	8-719-114-26	DIODE RD4. 7JS-B2		Q507	8-729-224-62	TRANSISTOR 2SK246-GR	
D606	8-719-988-53	DIODE LTZ-MR19		Q508	8-729-201-05	TRANSISTOR 2SC2878-B	
D607	8-719-988-53	DIODE LTZ-MR19		Q550	8-729-900-80	TRANSISTOR DTC114ES	
D608	8-719-114-30	DIODE RD5. 1JS-B2		Q601	8-729-900-65	TRANSISTOR DTA144ES	
D610	8-719-987-63	DIODE 1N4148M		Q602	8-729-322-40	TRANSISTOR 2SA1083E	
< IC >				Q603	8-729-620-23	TRANSISTOR 2SC3246-JK	
IC401	8-759-044-10	IC CXD2562Q		Q604	8-729-104-18	TRANSISTOR 2SC3514	
IC402	8-759-900-72	IC NE5532P		Q605	8-729-307-65	TRANSISTOR 2SJ76	
IC403	8-759-900-72	IC NE5532P		Q606	8-729-322-40	TRANSISTOR 2SA1083E	
IC404	8-759-900-72	IC NE5532P		Q607	8-729-184-53	TRANSISTOR 2SC1845-EA	
IC405	8-759-971-80	IC AD712JN		Q608	8-729-184-53	TRANSISTOR 2SC1845-EA	
IC406	8-759-998-79	IC OPA27GP		Q609	8-729-203-02	TRANSISTOR 2SK30A-0	
IC501	8-759-044-10	IC CXD2562Q		< RESISTOR >			
IC502	8-759-900-72	IC NE5532P		R401	1-249-947-11	CARBON 10K 1% 1/4W	
IC503	8-759-900-72	IC NE5532P		R402	1-249-947-11	CARBON 10K 1% 1/4W	
IC504	8-759-900-72	IC NE5532P		R403	1-249-947-11	CARBON 10K 1% 1/4W	
IC505	8-759-971-80	IC AD712JN		R404	1-249-947-11	CARBON 10K 1% 1/4W	
IC506	8-759-998-79	IC OPA27GP		R405	1-249-947-11	CARBON 10K 1% 1/4W	
IC601	8-752-342-65	IC CXD2560M		R406	1-249-947-11	CARBON 10K 1% 1/4W	
IC602	8-759-917-18	IC SN74HCU04N		R407	1-249-947-11	CARBON 10K 1% 1/4W	
IC603	8-759-233-64	IC TC74HCU04AF		R408	1-249-947-11	CARBON 10K 1% 1/4W	
IC604	8-759-900-72	IC NE5532P		R409	1-249-944-11	CARBON 7.5K 1% 1/4W	
< COIL >				R410	1-249-944-11	CARBON 7.5K 1% 1/4W	
L401	1-410-969-11	INDUCTOR 4.7uH		R411	1-249-944-11	CARBON 7.5K 1% 1/4W	
L402	1-410-971-11	INDUCTOR 10uH		R412	1-249-944-11	CARBON 7.5K 1% 1/4W	
L501	1-410-969-11	INDUCTOR 4.7uH		R417	1-249-944-11	CARBON 7.5K 1% 1/4W	
L502	1-410-971-11	INDUCTOR 10uH		R418	1-249-944-11	CARBON 7.5K 1% 1/4W	
L601	1-410-970-11	INDUCTOR 6.8uH		R419	1-249-945-11	CARBON 8.2K 1% 1/4W	
< PHOTO INTERRUPTER >				R420	1-249-945-11	CARBON 8.2K 1% 1/4W	
PH401	8-719-902-56	DIODE PC817		R421	1-247-721-11	CARBON 4.7K 5% 1/4W	
PH501	8-719-902-56	DIODE PC817		R422	1-247-721-11	CARBON 4.7K 5% 1/4W	
< TRANSISTOR >				R423	1-249-929-11	CARBON 1.8K 1% 1/4W	
Q401	8-729-322-40	TRANSISTOR 2SA1083E		R424	1-249-929-11	CARBON 1.8K 1% 1/4W	
Q402	8-729-184-53	TRANSISTOR 2SC1845-EA		R425	1-249-929-11	CARBON 1.8K 1% 1/4W	
Q403	8-729-184-53	TRANSISTOR 2SC1845-EA		R426	1-249-929-11	CARBON 1.8K 1% 1/4W	
Q404	8-729-184-53	TRANSISTOR 2SC1845-EA		R427	1-249-977-11	CARBON 180K 1% 1/4W	
Q405	8-729-321-35	TRANSISTOR 2SK213		R428	1-247-713-11	CARBON 1K 5% 1/4W	
Q406	8-729-307-65	TRANSISTOR 2SJ76		R429	1-214-730-00	METAL 1.1K 1% 1/4W	
Q407	8-729-224-62	TRANSISTOR 2SK246-GR		R430	1-249-462-11	CARBON 22K 5% 1/4W	
Q408	8-729-201-05	TRANSISTOR 2SC2878-B		R431	1-249-915-11	CARBON 470 1% 1/4W	
Q450	8-729-900-80	TRANSISTOR DTC114ES		R432	1-249-948-11	CARBON 11K 1% 1/4W	
Q501	8-729-322-40	TRANSISTOR 2SA1083E		R433	1-249-940-11	CARBON 5.1K 1% 1/4W	
Q502	8-729-184-53	TRANSISTOR 2SC1845-EA		R434	1-249-948-11	CARBON 11K 1% 1/4W	
				R435	1-249-940-11	CARBON 5.1K 1% 1/4W	
				R436	1-249-915-11	CARBON 470 1% 1/4W	

AUDIO

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R437	1-259-531-11	CARBON	100	1%	1/2W	R542	1-259-500-11	CARBON	1M	5%	1/6W
R438	1-259-531-11	CARBON	100	1%	1/2W	R544	1-259-519-11	CARBON	33	1%	1/2W
R439	1-259-519-11	CARBON	33	1%	1/2W	R545	1-249-586-11	CARBON	27K	5%	1/4W
R440	1-259-519-11	CARBON	33	1%	1/2W	R546	1-247-721-11	CARBON	4. 7K	5%	1/4W
R441	1-249-465-11	CARBON	47K	5%	1/4W	R556	1-259-426-11	CARBON	820	5%	1/6W
R442	1-259-500-11	CARBON	1M	5%	1/6W	R557	1-249-947-11	CARBON	10K	1%	1/4W
R444	1-259-519-11	CARBON	33	1%	1/2W	R557	1-259-442-11	CARBON	3. 9K	5%	1/6W
R445	1-249-586-11	CARBON	27K	5%	1/4W	R558	1-259-450-11	CARBON	8. 2K	5%	1/6W
R446	1-249-465-11	CARBON	47K	5%	1/4W	R559	1-259-472-11	CARBON	68K	5%	1/6W
R456	1-259-426-11	CARBON	820	5%	1/6W	R600	1-259-404-11	CARBON	100	5%	1/6W
R457	1-259-442-11	CARBON	3. 9K	5%	1/6W	R601	1-259-428-11	CARBON	1K	5%	1/6W
R458	1-259-450-11	CARBON	8. 2K	5%	1/6W	R602	1-259-420-11	CARBON	470	5%	1/6W
R459	1-259-472-11	CARBON	68K	5%	1/6W	R603	1-259-420-11	CARBON	470	5%	1/6W
R501	1-249-947-11	CARBON	10K	1%	1/4W	R604	1-259-420-11	CARBON	470	5%	1/6W
R502	1-249-947-11	CARBON	10K	1%	1/4W	R605	1-259-420-11	CARBON	470	5%	1/6W
R503	1-249-947-11	CARBON	10K	1%	1/4W	R606	1-259-416-11	CARBON	330	5%	1/6W
R504	1-249-947-11	CARBON	10K	1%	1/4W	R607	1-259-448-11	CARBON	6. 8K	5%	1/6W
R505	1-249-947-11	CARBON	10K	1%	1/4W	R608	1-259-424-11	CARBON	680	5%	1/6W
R506	1-249-947-11	CARBON	10K	1%	1/4W	R609	1-259-428-11	CARBON	1K	5%	1/6W
R507	1-249-947-11	CARBON	10K	1%	1/4W	R610	1-259-488-11	CARBON	330K	5%	1/6W
R508	1-249-947-11	CARBON	10K	1%	1/4W	R613	1-259-426-11	CARBON	820	5%	1/6W
R509	1-249-944-11	CARBON	7. 5K	1%	1/4W	R614	1-259-412-11	CARBON	220	5%	1/6W
R510	1-249-944-11	CARBON	7. 5K	1%	1/4W	R615	1-259-444-11	CARBON	4. 7K	5%	1/6W
R511	1-249-944-11	CARBON	7. 5K	1%	1/4W	R616	1-259-380-11	CARBON	10	5%	1/6W
R512	1-249-944-11	CARBON	7. 5K	1%	1/4W	R617	1-249-947-11	CARBON	10K	1%	1/4W
R517	1-249-944-11	CARBON	7. 5K	1%	1/4W	R618	1-247-700-11	CARBON	100	5%	1/4W
R518	1-249-944-11	CARBON	7. 5K	1%	1/4W	R619	1-247-700-11	CARBON	100	5%	1/4W
R519	1-249-945-11	CARBON	8. 2K	1%	1/4W	R620	1-247-721-11	CARBON	4. 7K	5%	1/4W
R520	1-249-945-11	CARBON	8. 2K	1%	1/4W	R621	1-247-721-11	CARBON	4. 7K	5%	1/4W
R521	1-247-721-11	CARBON	4. 7K	5%	1/4W	R622	1-247-700-11	CARBON	100	5%	1/4W
R522	1-249-929-11	CARBON	1. 8K	1%	1/4W	R623	1-249-907-11	CARBON	220	1%	1/4W
R523	1-249-929-11	CARBON	1. 8K	1%	1/4W	R624	1-249-907-11	CARBON	220	1%	1/4W
R524	1-249-929-11	CARBON	1. 8K	1%	1/4W	R625	1-249-497-11	CARBON	33K	5%	1/4W
R525	1-249-929-11	CARBON	1. 8K	1%	1/4W	R626	1-247-700-11	CARBON	100	5%	1/4W
R526	1-249-977-11	CARBON	180K	1%	1/4W	R627	1-259-476-11	CARBON	100K	5%	1/6W
R527	1-247-713-11	CARBON	1K	5%	1/4W	R628	1-259-488-11	CARBON	330K	5%	1/6W
R528	1-214-730-00	METAL	1. 1K	1%	1/4W	R629	1-259-484-11	CARBON	220K	5%	1/6W
R529	1-249-462-11	CARBON	22K	5%	1/4W						
R530	1-249-915-11	CARBON	470	1%	1/4W						
R531	1-249-948-11	CARBON	11K	1%	1/4W						
R532	1-249-940-11	CARBON	5. 1K	1%	1/4W						
R533	1-249-948-11	CARBON	11K	1%	1/4W						
R534	1-249-940-11	CARBON	5. 1K	1%	1/4W						
R535	1-249-915-11	CARBON	470	1%	1/4W						
R536	1-259-531-11	CARBON	100	1%	1/2W						
R537	1-259-531-11	CARBON	100	1%	1/2W						
R538	1-259-519-11	CARBON	33	1%	1/2W						
R539	1-259-519-11	CARBON	33	1%	1/2W						
R540	1-249-465-11	CARBON	47K	5%	1/4W						
R541	1-249-465-11	CARBON	47K	5%	1/4W						

< RELAY >

RY401 1-515-727-11 RELAY
RY501 1-515-727-11 RELAY

< THERMISTOR >

TH601 1-806-882-11 THERMISTOR, POSITIVE
TH602 1-806-882-11 THERMISTOR, POSITIVE

< FILTER >

X601 1-577-685-11 FILTER, CRYSTAL (16 MHz)

AUDIO

AUDIO SUB

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< VIBRATOR >							
X602	1-577-686-11	VIBRATOR, CRYSTAL (45 MHz)		* CN563	1-573-261-21	PIN, CONNECTOR 2P	
*****				* CN564	1-573-261-21	PIN, CONNECTOR 2P	
				* CN565	1-573-261-31	PIN, CONNECTOR 2P	
				* CN660	1-573-265-11	PIN, CONNECTOR 6P	
				* CN661	1-573-262-21	PIN, CONNECTOR 3P	
*	A-4649-021-A	AUDIO SUB BOARD, COMPLETE		* CN662	1-573-262-41	PIN, CONNECTOR 3P	
*****				* CN663	1-573-263-41	PIN, CONNECTOR 4P	
< CAPACITOR >				* CN664	1-573-265-41	PIN, CONNECTOR 6P	
C460	1-136-233-11	FILM	0.0047uF 2% 100V	< DIODE >			
C461	1-136-228-11	FILM	0.0012uF 2% 100V	D661	8-719-987-63	DIODE 1N4148M	
C462	1-137-507-11	FILM	1uF 10% 63V	D662	8-719-987-63	DIODE 1N4148M	
C463	1-124-572-11	ELECT	100uF 20% 63V	D663	8-719-987-63	DIODE 1N4148M	
C464	1-136-233-11	FILM	0.0047uF 2% 100V	D664	8-719-987-63	DIODE 1N4148M	
C465	1-136-228-11	FILM	0.0012uF 2% 100V	D666	8-719-114-30	DIODE RD5.1JS-B2	
C466	1-137-507-11	FILM	1uF 10% 63V	D667	8-719-933-74	DIODE HZS12A2L	
C467	1-124-572-11	ELECT	100uF 20% 63V	< IC >			
C468	1-136-272-00	FILM	68PF 5% 630V	IC460	8-759-900-72	IC NE5532P	
C469	1-124-913-11	ELECT	470uF 20% 50V	IC461	8-759-900-72	IC NE5532P	
C470	1-136-177-00	FILM	1uF 5% 50V	IC560	8-759-900-72	IC NE5532P	
C471	1-124-572-11	ELECT	100uF 20% 63V	IC561	8-759-900-72	IC NE5532P	
C472	1-137-507-11	FILM	1uF 10% 63V	< COIL >			
C560	1-136-233-11	FILM	0.0047uF 2% 100V	L470	1-410-970-11	INDUCTOR 6.8uH	
C561	1-136-228-11	FILM	0.0012uF 2% 100V	L471	1-410-967-11	INDUCTOR 2.2uH	
C562	1-137-507-11	FILM	1uF 10% 63V	L472	1-410-970-11	INDUCTOR 6.8uH	
C563	1-124-572-11	ELECT	100uF 20% 63V	L473	1-410-970-11	INDUCTOR 6.8uH	
C564	1-136-233-11	FILM	0.0047uF 2% 100V	L570	1-410-970-11	INDUCTOR 6.8uH	
C565	1-136-228-11	FILM	0.0012uF 2% 100V	L571	1-410-967-11	INDUCTOR 2.2uH	
C566	1-137-507-11	FILM	1uF 10% 63V	L572	1-410-970-11	INDUCTOR 6.8uH	
C567	1-124-572-11	ELECT	100uF 20% 63V	L573	1-410-970-11	INDUCTOR 6.8uH	
C568	1-136-272-00	FILM	68PF 5% 630V	< PHOTO INTERRUPTER >			
C569	1-124-913-11	ELECT	470uF 20% 50V	PH661	8-719-902-56	DIODE PC817	
C570	1-136-177-00	FILM	1uF 5% 50V	< TRANSISTOR >			
C571	1-124-572-11	ELECT	100uF 20% 63V	Q460	8-729-224-61	TRANSISTOR 2SK246-Y	
C572	1-137-507-11	FILM	1uF 10% 63V	Q461	8-729-809-29	TRANSISTOR 2SC4159-E	
C660	1-137-507-11	FILM	1uF 10% 63V	Q462	8-729-809-26	TRANSISTOR 2SA1606-E	
C661	1-137-507-11	FILM	1uF 10% 63V	Q463	8-729-184-53	TRANSISTOR 2SC1845-EA	
C662	1-162-806-11	CERAMIC	0.1uF 10% 50V	Q560	8-729-224-61	TRANSISTOR 2SK246-Y	
C663	1-162-806-11	CERAMIC	0.1uF 10% 50V	Q561	8-729-809-29	TRANSISTOR 2SC4159-E	
C664	1-162-806-11	CERAMIC	0.1uF 10% 50V	Q562	8-729-809-26	TRANSISTOR 2SA1606-E	
C665	1-162-806-11	CERAMIC	0.1uF 10% 50V	Q563	8-729-184-53	TRANSISTOR 2SC1845-EA	
C666	1-126-045-11	ELECT	2.2uF 20% 50V	Q661	8-729-900-80	TRANSISTOR DTC114ES	
C667	1-126-696-11	ELECT	33uF 20% 35V	Q662	8-729-900-65	TRANSISTOR DTA144ES	
C668	1-126-696-11	ELECT	33uF 20% 35V	Q663	8-729-900-65	TRANSISTOR DTA144ES	
< CONNECTOR >				Q664	8-729-900-80	TRANSISTOR DTC114ES	
* CN461	1-573-263-11	PIN, CONNECTOR 4P		Q665	8-729-900-80	TRANSISTOR DTC114ES	
* CN462	1-573-261-11	PIN, CONNECTOR 2P					
* CN463	1-573-261-11	PIN, CONNECTOR 2P					
* CN464	1-573-261-41	PIN, CONNECTOR 2P					
* CN562	1-573-263-21	PIN, CONNECTOR 4P					

AUDIO SUB

BALANCE (L)

BALANCE (R)

Ref. No.	Part No.	Description	Remark		
Q666	8-729-900-80	TRANSISTOR DTC114ES			
		< RESISTOR >			
R460	1-247-713-11	CARBON	1K	5%	1/4W
R461	1-247-713-11	CARBON	1K	5%	1/4W
R462	1-247-891-00	CARBON	330K	5%	1/4W
R463	1-247-702-11	CARBON	150	5%	1/4W
R464	1-247-713-11	CARBON	1K	5%	1/4W
R465	1-247-713-11	CARBON	1K	5%	1/4W
R466	1-247-891-00	CARBON	330K	5%	1/4W
R467	1-247-702-11	CARBON	150	5%	1/4W
R468	1-247-891-00	CARBON	330K	5%	1/4W
R469	1-247-891-00	CARBON	330K	5%	1/4W
R470	1-247-891-00	CARBON	330K	5%	1/4W
R471	1-249-586-11	CARBON	27K	5%	1/4W
R472	1-247-721-11	CARBON	4.7K	5%	1/4W
R473	1-247-725-11	CARBON	10K	5%	1/4W
R474	1-247-704-11	CARBON	220	5%	1/4W
R476	1-247-704-11	CARBON	220	5%	1/4W
△R477	1-212-853-00	FUSIBLE	6.8	5%	1/4W F
△R478	1-212-853-00	FUSIBLE	6.8	5%	1/4W F
△R479	1-212-881-11	FUSIBLE	100	5%	1/4W F
R480	1-249-465-11	CARBON	47K	5%	1/4W
R481	1-249-586-11	CARBON	27K	5%	1/4W
R482	1-247-891-00	CARBON	330K	5%	1/4W
R483	1-247-700-11	CARBON	100	5%	1/4W
R484	1-247-700-11	CARBON	100	5%	1/4W
R485	1-247-713-11	CARBON	1K	5%	1/4W
R486	1-247-713-11	CARBON	1K	5%	1/4W
R560	1-247-713-11	CARBON	1K	5%	1/4W
R561	1-247-713-11	CARBON	1K	5%	1/4W
R562	1-247-891-00	CARBON	330K	5%	1/4W
R563	1-247-702-11	CARBON	150	5%	1/4W
R564	1-247-713-11	CARBON	1K	5%	1/4W
R565	1-247-713-11	CARBON	1K	5%	1/4W
R566	1-247-891-00	CARBON	330K	5%	1/4W
R567	1-247-702-11	CARBON	150	5%	1/4W
R568	1-247-891-00	CARBON	330K	5%	1/4W
R569	1-247-891-00	CARBON	330K	5%	1/4W
R570	1-247-891-00	CARBON	330K	5%	1/4W
R571	1-249-586-11	CARBON	27K	5%	1/4W
R572	1-247-721-11	CARBON	4.7K	5%	1/4W
R573	1-247-725-11	CARBON	10K	5%	1/4W
R574	1-247-704-11	CARBON	220	5%	1/4W
R576	1-247-704-11	CARBON	220	5%	1/4W
△R577	1-212-853-00	FUSIBLE	6.8	5%	1/4W F
△R578	1-212-853-00	FUSIBLE	6.8	5%	1/4W F
△R579	1-212-881-11	FUSIBLE	100	5%	1/4W F
R580	1-249-465-11	CARBON	47K	5%	1/4W
R581	1-249-586-11	CARBON	27K	5%	1/4W

Ref. No.	Part No.	Description	Remark		
R582	1-247-891-00	CARBON	330K	5%	1/4W
R583	1-247-700-11	CARBON	100	5%	1/4W
R584	1-247-700-11	CARBON	100	5%	1/4W
R585	1-247-713-11	CARBON	1K	5%	1/4W
R586	1-247-713-11	CARBON	1K	5%	1/4W
R661	1-259-432-11	CARBON	1.5K	5%	1/6W
△R662	1-212-889-00	FUSIBLE	220	5%	1/4W F
R663	1-259-468-11	CARBON	47K	5%	1/6W
R664	1-259-460-11	CARBON	22K	5%	1/6W
R665	1-259-468-11	CARBON	47K	5%	1/6W
R666	1-259-460-11	CARBON	22K	5%	1/6W
R667	1-259-468-11	CARBON	47K	5%	1/6W
△R668	1-212-893-00	FUSIBLE	330	5%	1/4W F
△R669	1-212-893-00	FUSIBLE	330	5%	1/4W F
R670	1-259-380-11	CARBON	10	5%	1/6W
〈 RELAY 〉					
RY460	1-515-727-11	RELAY			
RY461	1-515-727-11	RELAY			
RY560	1-515-727-11	RELAY			
RY561	1-515-727-11	RELAY			

*	1-641-752-11	BALANCE (L) BOARD			

〈 CAPACITOR 〉					
C40	1-107-202-00	MICA	10PF	5%	500V
C41	1-107-202-00	MICA	10PF	5%	500V
〈 CONNECTOR 〉					
* CN480	1-573-263-11	PIN, CONNECTOR 4P			

*	1-641-753-11	BALANCE (R) BOARD			

〈 CAPACITOR 〉					
C50	1-107-202-00	MICA	10PF	5%	500V
C51	1-107-202-00	MICA	10PF	5%	500V
〈 CONNECTOR 〉					
* CN580	1-573-263-21	PIN, CONNECTOR 4P			

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.

BALANCE SW

BSL

COAX

D POWER

Ref. No.	Part No.	Description	Remark
*	1-641-756-11	BALANCE SW BOARD *****	
		< CONNECTOR >	
* CN761	1-573-263-41	PIN, CONNECTOR 4P < SWITCH >	
SW761	1-571-083-11	SWITCH, SLIDE (BALANCE OUT)	

*	A-4617-993-A	BSL BOARD, COMPLETE *****	
		< CAPACITOR >	
C10	1-124-779-00	ELECT CHIP 10uF 20% 16V	
C11	1-163-077-00	CERAMIC CHIP 0.1uF 10% 25V	
C20	1-124-779-00	ELECT CHIP 10uF 20% 16V	
C21	1-163-077-00	CERAMIC CHIP 0.1uF 10% 25V	
		< CONNECTOR >	
* CN1	1-564-519-11	PLUG, CONNECTOR 4P < DIODE >	
H11	8-719-987-62	DIODE LT140SC-TE84L	
H21	8-719-987-62	DIODE LT140SC-TE84L	
		< IC >	
IC11	8-759-055-78	IC TA8407F(EL)	
IC21	8-759-055-78	IC TA8407F(EL)	
		< JACK >	
J11	1-216-296-00	METAL CHIP 0 5% 1/8W	
		< RESISTOR >	
R11	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R12	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R13	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R14	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R15	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R16	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R17	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R18	1-216-150-00	METAL GLAZE 10 5% 1/8W	
R19	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	
R21	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R22	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R23	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R24	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R25	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R26	1-216-077-00	METAL CHIP 15K 5% 1/10W	

Ref. No.	Part No.	Description	Remark
R27	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R28	1-216-150-00	METAL GLAZE 10 5% 1/8W	
R29	1-216-070-00	METAL CHIP 7.5K 5% 1/10W	

*	1-641-754-11	COAX BOARD *****	
		< CAPACITOR >	
C701	1-136-165-00	FILM 0.1uF 5% 50V	
C702	1-136-177-00	FILM 1uF 5% 50V	
C703	1-107-169-00	MICA 100PF 5% 500V	
		< CONNECTOR >	
* CN701	1-573-273-11	PIN, CONNECTOR 3P < IC >	
IC701	8-759-917-18	IC SN74HCU04N	
		< JACK >	
J701	1-507-567-71	JACK, PIN 1P (DIGITAL OUT COAXIAL) < RESISTOR >	
R701	1-259-401-11	CARBON 75 5% 1/6W	
		< COIL >	
T701	1-459-795-11	COIL (WITH CORE)	

*	A-4649-184-A	D POWER BOARD, COMPLETE *****	
		< BUS BAR >	
* BUS1	1-691-279-11	BUS BAR 5P < CAPACITOR >	
C950	1-107-202-00	MICA 10PF 5% 500V	
C951	1-136-177-00	FILM 1uF 5% 50V	
C952	1-130-483-00	MYLAR 0.01uF 5% 50V	
C953	1-128-217-11	ELECT 12000uF 20% 16V	
C954	1-128-217-11	ELECT 12000uF 20% 16V	
C955	1-124-994-11	ELECT 100uF 20% 10V	
C956	1-162-282-31	CERAMIC 100PF 10% 50V	
C957	1-124-999-11	ELECT 2200uF 20% 10V	
C959	1-162-282-31	CERAMIC 100PF 10% 50V	
C960	1-124-999-11	ELECT 2200uF 20% 10V	
C963	1-124-999-11	ELECT 2200uF 20% 10V	
C965	1-162-294-31	CERAMIC 0.001uF 10% 50V	

D POWER

DISPLAY

Ref. No.	Part No.	Description	Remark
C966	1-126-303-11	ELECT 3.3uF 20% 50V	
C967	1-126-064-11	ELECT 220uF 20% 63V	
C968	1-126-051-11	ELECT 47uF 20% 35V	
C969	1-136-165-00	FILM 0.1uF 5% 50V	
C970	1-126-052-11	ELECT 100uF 20% 35V	
C971	1-126-022-11	ELECT 47uF 20% 10V	
C972	1-124-994-11	ELECT 100uF 20% 10V	
C973	1-136-165-00	FILM 0.1uF 5% 50V	
C974	1-136-233-11	FILM 0.0047uF 2% 100V	
C975	1-130-483-00	MYLAR 0.01uF 5% 50V	

< CONNECTOR >

* CN951	1-573-262-11	PIN, CONNECTOR 3P	
* CN952	1-573-265-11	PIN, CONNECTOR 6P	
* CN953	1-573-266-11	PIN, CONNECTOR 7P	
* CN954	1-573-261-31	PIN, CONNECTOR 2P	
* CN955	1-573-262-31	PIN, CONNECTOR 3P	
* CN956	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	

< DIODE >

D951	8-719-975-85	DIODE ERB83-004	
D952	8-719-975-85	DIODE ERB83-004	
D953	8-719-975-85	DIODE ERB83-004	
D954	8-719-975-85	DIODE ERB83-004	
D955	8-719-988-53	DIODE LTZ-MR19	
D956	8-719-200-02	DIODE 10E2	
D957	8-719-115-04	DIODE RD27JS-B2	
D958	8-719-114-26	DIODE RD4.7JS-B2	
D959	8-719-109-66	DIODE RD3.3ES-B2	

< IC >

IC951	8-759-602-01	IC M5220P	
IC952	8-759-636-16	IC M51957AL	
IC953	8-759-982-03	IC RC5532DD	

< BASE POST >

LP951	1-535-139-00	BASE POST 22MM (10MM PITCH) 2P	
LP952	1-535-139-00	BASE POST 22MM (10MM PITCH) 2P	

< IC LINK >

△PS951	1-532-675-00	LINK, IC 1.5A	
--------	--------------	---------------	--

< TRANSISTOR >

Q951	8-729-322-40	TRANSISTOR 2SA1083E	
Q952	8-729-905-67	TRANSISTOR 2SD1944-K	
Q953	8-729-905-67	TRANSISTOR 2SD1944-K	
Q954	8-729-322-40	TRANSISTOR 2SA1083E	
Q955	8-729-905-67	TRANSISTOR 2SD1944-K	
Q956	8-729-224-62	TRANSISTOR 2SK246-GR	

Ref. No.	Part No.	Description	Remark
Q957	8-729-140-96	TRANSISTOR 2SD774-34	
Q958	8-729-140-97	TRANSISTOR 2SB734-34	

< RESISTOR >

△R951	1-212-877-11	FUSIBLE 68 5% 1/4W F	
R952	1-259-446-11	CARBON 5.6K 5% 1/6W	
R953	1-215-414-00	METAL 510 1% 1/6W	
R954	1-215-419-00	METAL 820 1% 1/6W	
R955	1-215-419-00	METAL 820 1% 1/6W	
R956	1-215-427-00	METAL 1.8K 1% 1/6W	
R957	1-259-380-11	CARBON 10 5% 1/6W	
R958	1-215-419-00	METAL 820 1% 1/6W	
R959	1-215-425-00	METAL 1.5K 1% 1/6W	
R960	1-259-380-11	CARBON 10 5% 1/6W	
R961	1-259-444-11	CARBON 4.7K 5% 1/6W	
R962	1-215-457-00	METAL 33K 1% 1/6W	
R963	1-215-447-00	METAL 12K 1% 1/6W	
R964	1-259-436-11	CARBON 2.2K 5% 1/6W	
R965	1-259-428-11	CARBON 1K 5% 1/6W	

R966	1-259-468-11	CARBON 47K 5% 1/6W	
R967	1-215-447-00	METAL 12K 1% 1/6W	
R968	1-259-468-11	CARBON 47K 5% 1/6W	
△R969	1-212-950-00	FUSIBLE 4.7 5% 1/2W F	

< THERMISTOR >

TH951	1-806-882-11	THERMISTOR, POSITIVE	
-------	--------------	----------------------	--

*	A-4649-013-A	DISPLAY BOARD, COMPLETE	
---	--------------	-------------------------	--

< CAPACITOR >

C801	1-164-159-11	CERAMIC 0.1uF 50V	
C802	1-164-159-11	CERAMIC 0.1uF 50V	
C803	1-164-159-11	CERAMIC 0.1uF 50V	
C804	1-162-806-11	CERAMIC 0.1uF 10% 50V	
C805	1-164-159-11	CERAMIC 0.1uF 50V	

< CONNECTOR >

* CN802	1-573-266-11	PIN, CONNECTOR 7P	
---------	--------------	-------------------	--

< DIODE >

D801	8-719-987-63	DIODE 1N4148M	
D802	8-719-987-63	DIODE 1N4148M	
D803	8-719-913-49	LED EBG5638S	
D804	8-719-913-47	LED EAA5638S	
D805	8-719-913-47	LED EAA5638S	
D806	8-719-913-49	LED EBG5638S	

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.

DISPLAY

FIX

HP (B)

HP

L. MOTOR

M. VR

Ref. No.	Part No.	Description	Remark
		< FLUORESCENT INDICATOR >	
FLD801	1-519-688-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC801	8-759-070-02	IC MSC62408-039GS-V1K	
IC802	8-741-100-48	IC SBX1610-59	
		< TRANSISTOR >	
Q801	8-729-900-45	TRANSISTOR DTC114EF	
Q802	8-729-900-45	TRANSISTOR DTC114EF	
Q803	8-729-900-45	TRANSISTOR DTC114EF	
Q804	8-729-900-45	TRANSISTOR DTC114EF	
		< RESISTOR >	
R801	1-259-452-11	CARBON 10K 5% 1/6W	
R802	1-259-452-11	CARBON 10K 5% 1/6W	
R803	1-259-500-11	CARBON 1M 5% 1/6W	
R804	1-259-406-11	CARBON 120 5% 1/6W	
R805	1-259-414-11	CARBON 270 5% 1/6W	
R806	1-259-414-11	CARBON 270 5% 1/6W	
R807	1-259-406-11	CARBON 120 5% 1/6W	
		< SWITCH >	
S801	1-572-198-11	SWITCH, KEY BOARD (PLAY MODE)	
S802	1-572-198-11	SWITCH, KEY BOARD (DIGITAL OUTPUT)	
S803	1-572-198-11	SWITCH, KEY BOARD (DISPLAY MODE)	
S804	1-572-198-11	SWITCH, KEY BOARD (OPEN/CLOSE)	
S805	1-572-198-11	SWITCH, KEY BOARD (PLAY)	
S806	1-572-198-11	SWITCH, KEY BOARD (FF)	
S807	1-572-198-11	SWITCH, KEY BOARD (REW)	
S808	1-572-198-11	SWITCH, KEY BOARD (AMS ►►)	
S809	1-572-198-11	SWITCH, KEY BOARD (PAUSE)	
S810	1-572-198-11	SWITCH, KEY BOARD (STOP)	
S811	1-572-198-11	SWITCH, KEY BOARD (AMS ◄◄)	
		< VIBRATOR >	
X801	1-577-359-21	VIBRATOR, CERAMIC (4.19 MHz)	

*	1-641-748-11	FIX BOARD	

		< CAPACITOR >	
C740	1-107-202-00	MICA 10PF 5% 500V	
C750	1-107-202-00	MICA 10PF 5% 500V	
		< CONNECTOR >	
* CN751	1-573-263-11	PIN, CONNECTOR 4P	

Ref. No.	Part No.	Description	Remark
* CN752	1-573-261-41	PIN, CONNECTOR 2P	
		< DIODE >	
D701	8-719-987-63	DIODE 1N4148M	

*	1-642-213-11	HP(B) BOARD (US, Canadian, AEP: GOLD)	

*	1-641-759-11	HP BOARD (AEP)	

		< CAPACITOR >	
C490	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C590	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C710	1-164-159-11	CERAMIC 0.1uF 50V	
		< CONNECTOR >	
* CN710	1-573-274-11	PIN, CONNECTOR 4P	
		< JACK >	
J710	1-568-519-61	JACK, LARGE TYPE	
		(US, Canadian, AEP: GOLD)	
	1-568-519-31	JACK, LARGE TYPE (AEP) (PHONES)	

*	1-641-765-11	L. MOTOR BOARD	

	1-641-761-11	M. VR BOARD	

		< CAPACITOR >	
C761	1-164-159-11	CERAMIC 0.1uF 50V	
		< CONNECTOR >	
* CN490	1-573-274-11	PIN, CONNECTOR 4P	
* CN590	1-573-274-21	PIN, CONNECTOR 4P	
* CN750	1-573-273-11	PIN, CONNECTOR 3P	
		< VARIABLE RESISTOR >	
RV751	1-241-792-11	RES, VAR, CARBBON 20K/20K	

OPT	SERVO (1) (A)
-----	---------------

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	1-641-755-11	OPT BOARD *****		C172	1-163-038-00	CERAMIC CHIP 0.1uF	25V
		< CAPACITOR >		C173	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C704	1-136-165-00	FILM 0.1uF 5% 50V		C174	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C705	1-107-169-00	MICA 100PF 5% 500V		C175	1-163-038-00	CERAMIC CHIP 0.1uF	25V
		< IC >		C177	1-163-038-00	CERAMIC CHIP 0.1uF	25V
IC702	8-759-977-71	IC GP-1F31T		C178	1-163-038-00	CERAMIC CHIP 0.1uF	25V
*****				C179	1-163-038-00	CERAMIC CHIP 0.1uF	25V
*	A-4649-006-A	SERVO (1) (A) BOARD, COMPLETE *****		C180	1-163-038-00	CERAMIC CHIP 0.1uF	25V
		< CAPACITOR >		C181	1-164-346-11	CERAMIC CHIP 1uF	16V
C101	1-163-133-00	CERAMIC CHIP 470PF 5% 50V		C201	1-163-809-11	CERAMIC CHIP 0.047uF 10%	25V
C102	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V		C202	1-163-011-11	CERAMIC CHIP 0.0015uF 10%	50V
C103	1-163-133-00	CERAMIC CHIP 470PF 5% 50V		C203	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C104	1-164-346-11	CERAMIC CHIP 1uF	16V	C204	1-163-117-00	CERAMIC CHIP 100PF 5%	50V
C105	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C205	1-164-489-11	CERAMIC CHIP 0.22uF 10%	16V
C106	1-164-346-11	CERAMIC CHIP 1uF	16V	C206	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C107	1-164-346-11	CERAMIC CHIP 1uF	16V	C207	1-164-346-11	CERAMIC CHIP 1uF	16V
C108	1-162-294-31	CERAMIC 0.001uF 10%	50V	C301	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C109	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C302	1-125-622-11	CAP, DOUBLE LAYERS	0.10F
C110	1-124-584-00	ELECT 100uF 20%	10V	C303	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C111	1-164-346-11	CERAMIC CHIP 1uF	16V	C304	1-163-009-11	CERAMIC CHIP 0.001uF 10%	50V
C112	1-164-346-11	CERAMIC CHIP 1uF	16V	C305	1-164-346-11	CERAMIC CHIP 1uF	16V
C113	1-164-346-11	CERAMIC CHIP 1uF	16V			< CONNECTOR >	
C114	1-164-346-11	CERAMIC CHIP 1uF	16V	* CN101	1-573-276-11	PIN, CONNECTOR 6P	
C115	1-162-806-11	CERAMIC 0.1uF 10%	50V	CN102	1-568-799-11	SOCKET, CONNECTOR 16P	
C116	1-162-806-11	CERAMIC 0.1uF 10%	50V	* CN112	1-580-001-11	PIN, CONNECTOR (PC BOARD) 4P	
C121	1-163-017-00	CERAMIC CHIP 0.0047uF 5%	50V	* CN113	1-580-002-11	PIN, CONNECTOR (PC BOARD) 5P	
C122	1-163-001-11	CERAMIC CHIP 220PF 10%	50V	* CN141	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P	
C123	1-163-133-00	CERAMIC CHIP 470PF 5%	50V	* CN201	1-580-007-11	PIN, CONNECTOR (PC BOARD) 10P	
C124	1-163-986-00	CERAMIC CHIP 0.027uF 10%	25V	* CN202	1-580-003-11	PIN, CONNECTOR (PC BOARD) 6P	
C125	1-163-986-00	CERAMIC CHIP 0.027uF 10%	25V	* CN203	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P	
C141	1-163-038-00	CERAMIC CHIP 0.1uF	25V	* CN301	1-691-465-11	PIN, CONNECTOR 9P	
C142	1-163-038-00	CERAMIC CHIP 0.1uF	25V	* CN302	1-691-462-11	PIN, CONNECTOR 6P	
C151	1-163-137-00	CERAMIC CHIP 680PF 5%	50V			< DIODE >	
C152	1-163-137-00	CERAMIC CHIP 680PF 5%	50V	D301	8-719-104-34	DIODE 1S2836	
C153	1-163-137-00	CERAMIC CHIP 680PF 5%	50V			< IC >	
C154	1-163-137-00	CERAMIC CHIP 680PF 5%	50V	IC101	8-752-344-48	IC CXD2501Q	
C155	1-163-019-00	CERAMIC CHIP 0.0068uF 10%	50V	IC102	8-759-071-79	IC BA6297FP-T1	
C156	1-164-346-11	CERAMIC CHIP 1uF	16V	IC103	8-759-040-83	IC BA6287F-T1	
C157	1-163-023-00	CERAMIC CHIP 0.015uF 5%	50V	IC141	8-759-055-78	IC TA8407F(EL)	
C158	1-163-809-11	CERAMIC CHIP 0.047uF 10%	25V	IC142	8-759-981-92	IC RC4558M	
C159	1-163-038-00	CERAMIC CHIP 0.1uF	25V	IC151	8-759-981-92	IC RC4558M	
C160	1-164-336-11	CERAMIC CHIP 0.33uF	25V	IC152	8-759-981-92	IC RC4558M	
C161	1-163-023-00	CERAMIC CHIP 0.015uF 5%	50V	IC201	8-752-337-26	IC CXD2500AQ	
C171	1-163-038-00	CERAMIC CHIP 0.1uF	25V	IC301	8-759-069-47	IC M37451M8-174FP	
				IC302	8-759-512-81	IC LH5160N-10L	

SERVO (1) (A)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< TRANSISTOR >				R165	1-216-081-00	METAL CHIP	22K 5% 1/10W
Q151	8-729-901-06	TRANSISTOR DTA144EK		R166	1-216-085-00	METAL CHIP	33K 5% 1/10W
Q181	8-729-901-01	TRANSISTOR DTC144EK		R167	1-216-308-00	METAL CHIP	4.7 5% 1/10W
Q182	8-729-901-06	TRANSISTOR DTA144EK		R171	1-216-001-00	METAL CHIP	10 5% 1/10W
< RESISTOR >				R172	1-216-001-00	METAL CHIP	10 5% 1/10W
R101	1-216-077-00	METAL CHIP	15K 5% 1/10W	R173	1-216-001-00	METAL CHIP	10 5% 1/10W
R102	1-216-097-00	METAL CHIP	100K 5% 1/10W	R174	1-216-001-00	METAL CHIP	10 5% 1/10W
R103	1-216-077-00	METAL CHIP	15K 5% 1/10W	R175	1-216-001-00	METAL CHIP	10 5% 1/10W
R104	1-216-049-00	METAL CHIP	1K 5% 1/10W	R177	1-216-001-00	METAL CHIP	10 5% 1/10W
R105	1-216-097-00	METAL CHIP	100K 5% 1/10W	R178	1-216-001-00	METAL CHIP	10 5% 1/10W
R106	1-216-085-00	METAL CHIP	33K 5% 1/10W	R179	1-216-001-00	METAL CHIP	10 5% 1/10W
R107	1-216-025-00	METAL CHIP	100 5% 1/10W	R180	1-216-001-00	METAL CHIP	10 5% 1/10W
R108	1-216-049-00	METAL CHIP	1K 5% 1/10W	R181	1-216-295-00	METAL CHIP	0 5% 1/10W
R121	1-216-071-00	METAL CHIP	8.2K 5% 1/10W	R182	1-216-295-00	METAL CHIP	0 5% 1/10W
R122	1-216-071-00	METAL CHIP	8.2K 5% 1/10W	R183	1-216-073-00	METAL CHIP	10K 5% 1/10W
R123	1-216-071-00	METAL CHIP	8.2K 5% 1/10W	R184	1-216-097-00	METAL CHIP	100K 5% 1/10W
R124	1-216-071-00	METAL CHIP	8.2K 5% 1/10W	R191	1-216-295-00	METAL CHIP	0 5% 1/10W
R125	1-216-071-00	METAL CHIP	8.2K 5% 1/10W	R192	1-216-295-00	METAL CHIP	0 5% 1/10W
R126	1-216-071-00	METAL CHIP	8.2K 5% 1/10W	R201	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R127	1-216-069-00	METAL CHIP	6.8K 5% 1/10W	R202	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R128	1-216-069-00	METAL CHIP	6.8K 5% 1/10W	R203	1-216-073-00	METAL CHIP	10K 5% 1/10W
R129	1-216-069-00	METAL CHIP	6.8K 5% 1/10W	R204	1-216-121-00	METAL CHIP	1M 5% 1/10W
R130	1-216-069-00	METAL CHIP	6.8K 5% 1/10W	R205	1-216-105-00	METAL CHIP	220K 5% 1/10W
R131	1-216-069-00	METAL CHIP	6.8K 5% 1/10W	R206	1-216-073-00	METAL CHIP	10K 5% 1/10W
R132	1-216-069-00	METAL CHIP	6.8K 5% 1/10W	R207	1-216-041-00	METAL CHIP	470 5% 1/10W
R133	1-216-053-00	METAL CHIP	1.5K 5% 1/10W	R208	1-216-041-00	METAL CHIP	470 5% 1/10W
R134	1-216-053-00	METAL CHIP	1.5K 5% 1/10W	R209	1-216-041-00	METAL CHIP	470 5% 1/10W
R141	1-216-073-00	METAL CHIP	10K 5% 1/10W	R210	1-216-033-00	METAL CHIP	220 5% 1/10W
R142	1-216-079-00	METAL CHIP	18K 5% 1/10W	R211	1-216-073-00	METAL CHIP	10K 5% 1/10W
R143	1-216-073-00	METAL CHIP	10K 5% 1/10W	R212	1-216-037-00	METAL CHIP	330 5% 1/10W
R144	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R213	1-216-049-00	METAL CHIP	1K 5% 1/10W
R145	1-216-073-00	METAL CHIP	10K 5% 1/10W	R301	1-216-073-00	METAL CHIP	10K 5% 1/10W
R146	1-216-073-00	METAL CHIP	10K 5% 1/10W	R303	1-216-073-00	METAL CHIP	10K 5% 1/10W
R147	1-216-079-00	METAL CHIP	18K 5% 1/10W	R304	1-216-073-00	METAL CHIP	10K 5% 1/10W
R148	1-216-073-00	METAL CHIP	10K 5% 1/10W	R305	1-216-073-00	METAL CHIP	10K 5% 1/10W
R149	1-216-073-00	METAL CHIP	10K 5% 1/10W	R306	1-216-073-00	METAL CHIP	10K 5% 1/10W
R151	1-216-070-00	METAL CHIP	7.5K 5% 1/10W	R307	1-216-073-00	METAL CHIP	10K 5% 1/10W
R152	1-216-070-00	METAL CHIP	7.5K 5% 1/10W	R308	1-216-073-00	METAL CHIP	10K 5% 1/10W
R153	1-216-070-00	METAL CHIP	7.5K 5% 1/10W	R309	1-216-049-00	METAL CHIP	1K 5% 1/10W
R154	1-216-070-00	METAL CHIP	7.5K 5% 1/10W	R310	1-216-121-00	METAL CHIP	1M 5% 1/10W
R155	1-216-093-00	METAL CHIP	68K 5% 1/10W	R311	1-216-037-00	METAL CHIP	330 5% 1/10W
R156	1-216-085-00	METAL CHIP	33K 5% 1/10W	R312	1-216-073-00	METAL CHIP	10K 5% 1/10W
R157	1-216-117-00	METAL CHIP	680K 5% 1/10W	R313	1-216-049-00	METAL CHIP	1K 5% 1/10W
R158	1-216-097-00	METAL CHIP	100K 5% 1/10W	R314	1-216-073-00	METAL CHIP	10K 5% 1/10W
R159	1-216-083-00	METAL CHIP	27K 5% 1/10W	R315	1-216-073-00	METAL CHIP	10K 5% 1/10W
R160	1-216-049-00	METAL CHIP	1K 5% 1/10W	R316	1-216-073-00	METAL CHIP	10K 5% 1/10W
R161	1-216-095-00	METAL CHIP	82K 5% 1/10W	R317	1-216-073-00	METAL CHIP	10K 5% 1/10W
R163	1-216-076-00	METAL CHIP	13K 5% 1/10W	R318	1-216-073-00	METAL CHIP	10K 5% 1/10W
R164	1-216-085-00	METAL CHIP	33K 5% 1/10W	R319	1-216-073-00	METAL CHIP	10K 5% 1/10W

SERVO (1) (A) SW VARIABLE

Ref. No.	Part No.	Description	Remark
		< VIBRATOR >	
X301	1-577-377-11	VIBRATOR, CERAMIC	

*	1-641-764-11	SW BOARD	

		< CAPACITOR >	
C001	1-161-494-00	CERAMIC 0.022uF 25V	
		< RESISTOR >	
△R001	1-247-727-11	CARBON 10 5% 1/2W F	
△R002	1-247-727-11	CARBON 10 5% 1/2W F	
		< SWITCH >	
S001	1-571-300-21	SWITCH, ROTARY (IN SW)	
S002	1-571-300-21	SWITCH, ROTARY (OUT SW)	

*	1-641-749-11	VARIABLE BOARD	

		< CONNECTOR >	
* CN753	1-573-263-31	PIN, CONNECTOR 4P	

		MISCELLANEOUS	

△117	1-558-568-21	CORD, POWER (AEP)	
△117	1-690-958-11	CORD, POWER (US, Canadian)	
126	1-533-183-11	HOLDER, FUSE	
△222	8-848-244-11	DEVICE, OPTICAL KSS-272A	
D803	8-719-913-49	DIODE EBG5638S (PLAY)	
D804	8-719-913-47	DIODE EBG5638S (PAUSE)	
D805	8-719-913-47	DIODE EBG5638S (D/O ON)	
D806	8-719-913-49	DIODE EBG5638S (D/O OFF)	
J401	1-563-030-11	CONNECTOR (RECEPTACLE) 3P	
J501	1-563-030-11	CONNECTOR (RECEPTACLE) 3P	
J701	1-568-918-11	JACK, PIN 1P (FIXED R)	
J702	1-568-918-11	JACK, PIN 1P (FIXED L)	
J703	1-568-918-11	JACK, PIN 1P (VARIABLE R)	
J704	1-568-918-11	JACK, PIN 1P (VARIABLE L)	
△PT901	1-450-775-11	TRANSFORMER, POWER (US, Canadian)	
△PT901	1-450-776-11	TRANSFORMER, POWER (AEP)	
△PT901	1-532-215-00	FUSE, TIME-LAG (AEP)	
△PT901	1-532-825-11	FUSE, GLASS TUBE (US, Canadian)	
△S901	1-554-538-00	SWITCH, PUSH (AC POWER) (1 KEY)	

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.

Ref. No.	Part No.	Description	Remark

		ACCESSORIES & PACKING MATERIALS	

1-465-871-11		REMOTE COMMANDER (RM-D995) (US, Canadian, AEP: GOLD)	
1-465-872-11		REMOTE COMMANDER (RM-D996) (AEP: BLACK)	
1-558-271-11		CORD, CONNECTION	
3-707-584-01		COVER, BATTERY (AEP: BLACK)	
3-707-584-11		COVER, BATTERY (US, Canadian, AEP: GOLD)	
3-750-090-01		INSTRUCTION (Canadian)	
3-750-411-11		MANUAL, INSTRUCTION	
3-754-116-11		MANUAL, INSTRUCTION (ENGLISH, SPANISH, FRENCH, PORTUGUESE) (Canadian, AEP)	
3-754-116-21		MANUAL, INSTRUCTION (ENGLISH) (US)	
3-754-116-41		MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP)	
3-795-629-11		INSTRUCTION (AEP)	
4-847-802-00		SCREW	
*	4-928-005-01	CUSHION	
*	4-941-548-01	LABEL, CLASS 1 (AEP)	
*	4-951-272-01	INDIVIDUAL CARTON	
9-910-999-33		INSTRUCTION (US)	

		HARDWARE LIST	

#1	7-682-664-09	SCREW +PSW 4X14	
#2	7-682-548-04	SCREW +BVTT 3X8 (S)	
#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	
#4	7-682-562-09	SCREW +B 4X10	
#5	7-682-548-09	SCREW +BVTT 3X8 (S)	
#6	7-682-546-09	SCREW +B 3X5	
#7	7-682-549-04	SCREW +BVTT 3X10 (S)	
#8	7-682-547-04	SCREW +B 3X6	
#9	7-684-023-04	N 3, TYPE 2	
#10	7-685-246-14	SCREW +RKTP 3X8 TYPE2 SLIT	
#11	7-682-147-15	SCREW, TR	
#12	7-685-646-79	SCREW, TAPPING	
#13	7-621-775-10	SCREW +B 2.6X4	
#14	7-624-105-04	STOP RING 2.3, TYPE -E	
#15	7-682-547-09	SCREW +BVTT 3X6 (S)	
#16	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S	
#17	7-688-003-12	W 3, MIDDLE	
#18	7-682-544-04	SCREW +P 3X3	
#19	7-621-734-09	SET-SCT, HEX. 2.6X3	
#20	7-621-770-XX	SCREW +P 2.6X8	
#21	7-685-132-19	+ PTPWH (2.6X5)	
#22	7-621-770-67	SCREW +BVTT 2.6X6 (S)	

CDP-X779ES

SONY[®] SERVICE MANUAL

*US Model
Canadian Model
AEP Model*

SUPPLEMENT-1

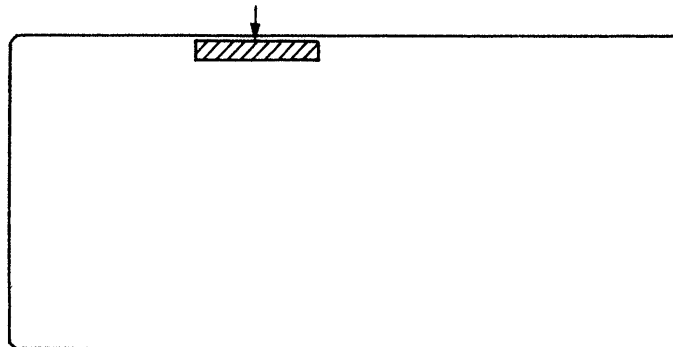
File this Supplement with the Service Manual.

Subject : Change of AUDIO board

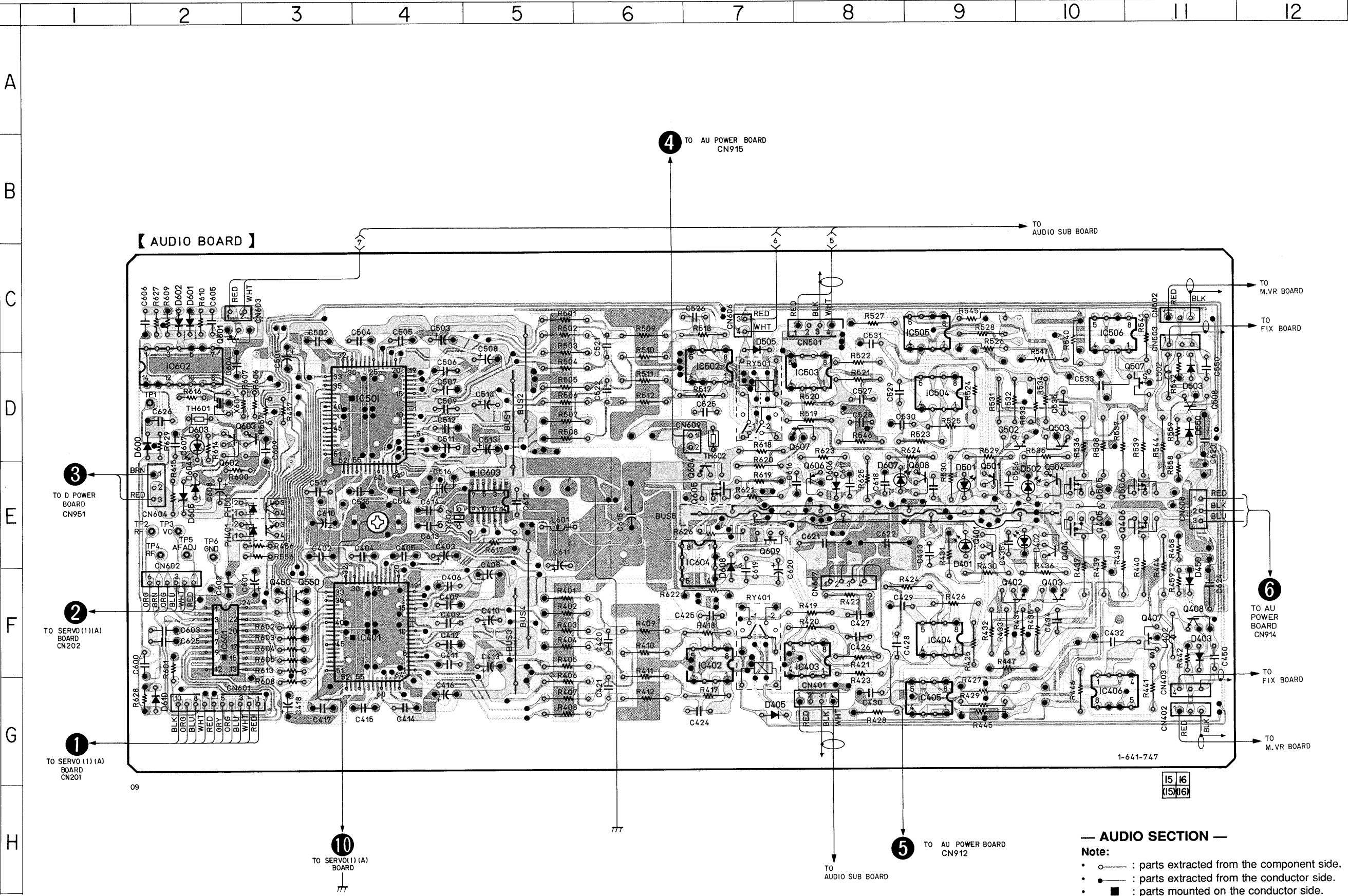
New type identification :

[AUDIO BOARD] — Conductor side —

1-641-747-15,16



PRINTED WIRING BOARDS — AUDIO SECTION —



— AUDIO SECTION —

Note:

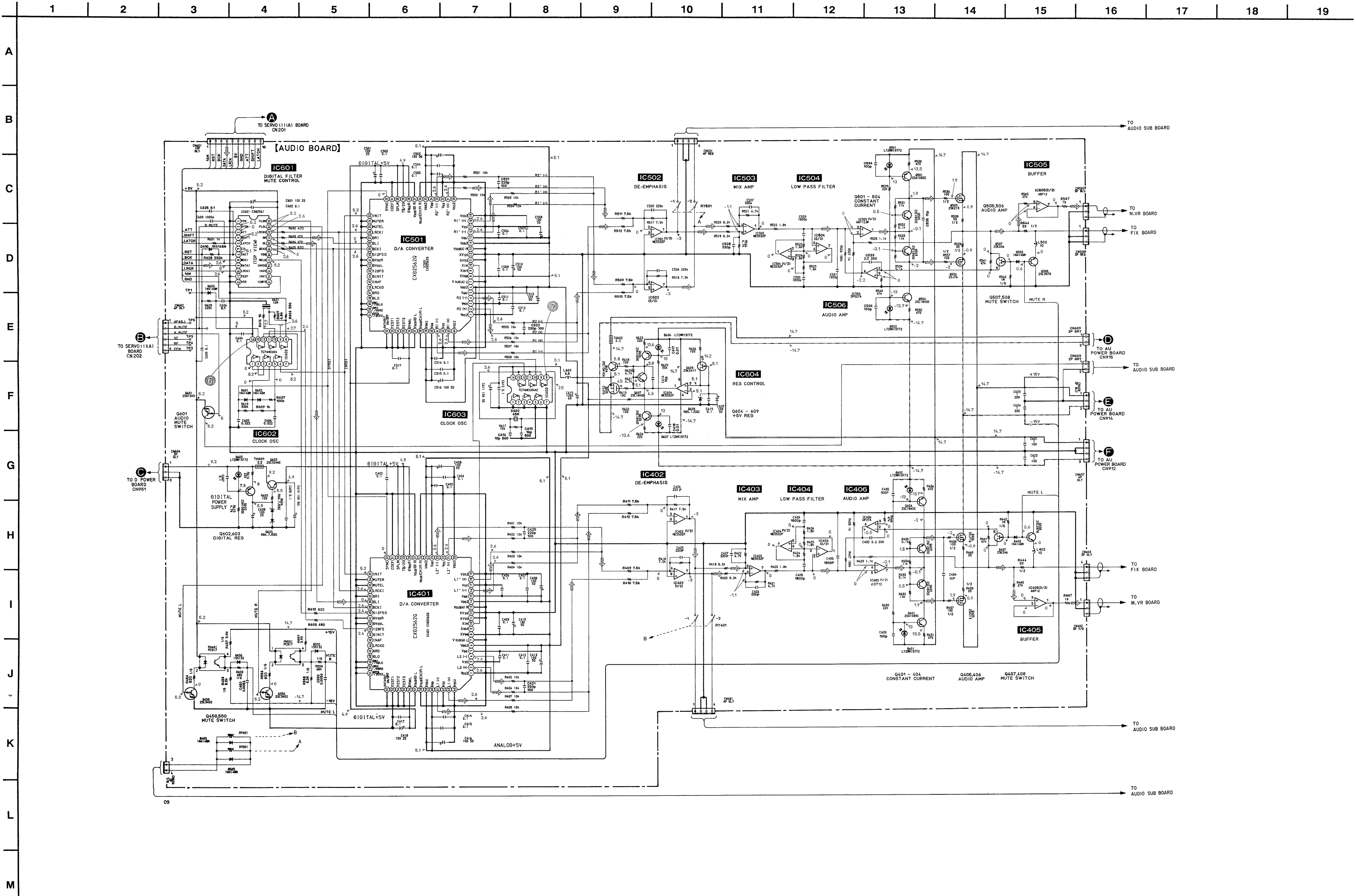
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- B+ Line
- B- Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- no mark : STOP
- Circled numbers refer to waveforms.
- Signal path.
- $\Rightarrow$: CD

SCHEMATIC DIAGRAM — AUDIO SECTION —

— AUDIO SECTION —

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D401	F-9	Q401	F-9
D402	F-10	Q402	F-9
D403	G-11	Q403	F-10
D405	G-7	Q404	F-10
D450	F-11	Q405	E-10
D501	E-9	Q406	E-11
D502	E-10	Q407	F-11
D503	D-11	Q408	F-11
D505	D-7	Q450	F-3
D550	D-11	Q480	E-14
D600	E-2	Q481	F-15
D601	C-2	Q482	F-15
D602	C-2	Q483	F-14
D603	E-2	Q501	E-9
D604	E-2	Q502	E-10
D605	E-2	Q503	E-10
D606	E-8	Q504	E-10
D607	E-8	Q505	E-10
D608	F-7	Q506	E-11
D610	G-2	Q507	D-11
D681	E-18	Q508	D-11
D682	E-18	Q550	F-3
D683	G-17	Q580	E-14
D684	F-17	Q581	E-15
D686	F-17	Q582	E-15
D687	F-17	Q583	D-14
D701	I-12	Q601	D-2
		Q602	E-2
IC401	F-4	Q603	E-3
IC402	G-7	Q604	E-7
IC403	G-8	Q605	E-7
IC404	F-9	Q606	E-8
IC405	G-9	Q607	E-8
IC406	G-10	Q608	E-9
IC480	F-20	Q609	E-7
IC481	F-14	Q681	D-17
IC501	D-4	Q682	F-18
IC502	D-7	Q683	F-18
IC503	D-8	Q684	F-17
IC504	D-9	Q685	F-17
IC505	D-9	Q686	F-17
IC506	D-10		
IC580	D-20		
IC581	D-14		
IC601	F-2		
IC602	D-2		
IC603	E-5		
IC604	F-7		
PH401	E-3		
PH501	E-3		
PH681	D-17		



ELECTRICAL PARTS LIST

NOTE:

When indicating parts by reference number, please include the board name.

- 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.

- RESISTORS
All resistors are in ohms
- CAPACITORS
uF : μ F
- COILS
uH : μ H

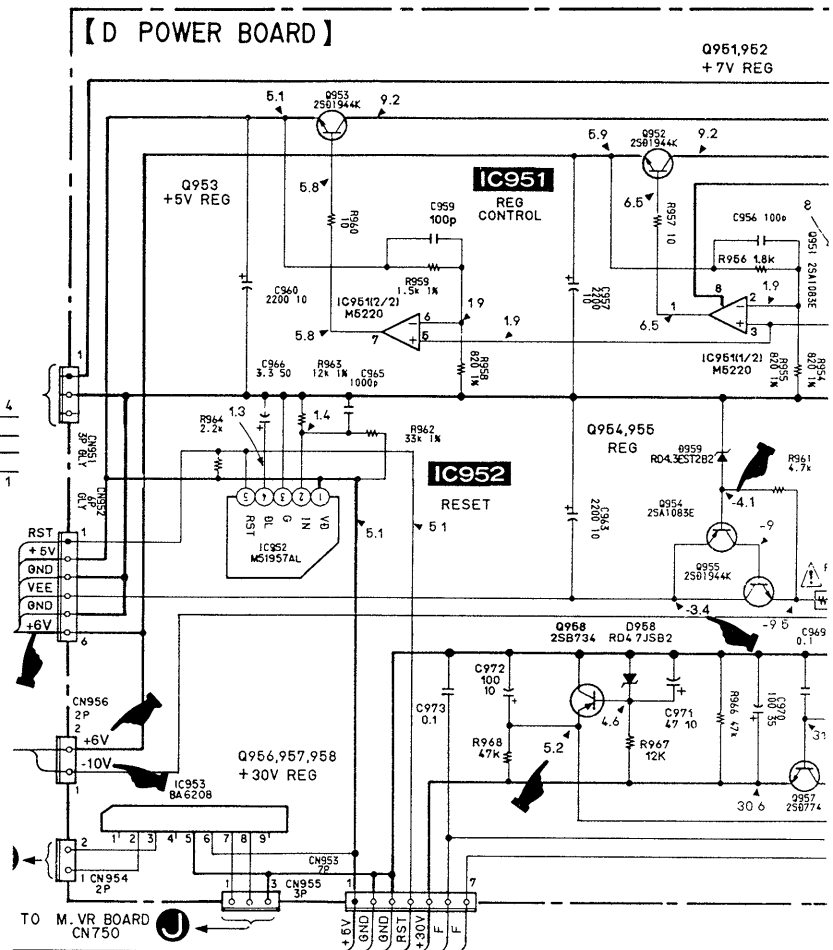
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-4649-018-A	AUDIO BOARD, COMPLETE *****		C505	1-162-806-11	CERAMIC	0.1uF 10% 50V
	< BUS BAR >			C506	1-162-806-11	CERAMIC	0.1uF 10% 50V
* BUS1	1-569-137-11	BUS BAR 2P		C507	1-162-806-11	CERAMIC	0.1uF 10% 50V
* BUS2	1-569-137-11	BUS BAR 2P		C508	1-126-052-11	ELECT	100uF 20% 50V
* BUS3	1-569-137-11	BUS BAR 2P		C509	1-162-806-11	CERAMIC	0.1uF 10% 50V
* BUS3	1-691-275-11	BUS BAR		C510	1-126-052-11	ELECT	100uF 20% 50V
* BUS4	1-569-137-11	BUS BAR 2P		C511	1-162-806-11	CERAMIC	0.1uF 10% 50V
	< CAPACITOR >			C512	1-162-806-11	CERAMIC	0.1uF 10% 50V
C402	1-136-165-00	FILM	0.1uF 5% 50V	C513	1-126-052-11	ELECT	100uF 20% 50V
C403	1-126-052-11	ELECT	100uF 20% 50V	C514	1-162-806-11	CERAMIC	0.1uF 10% 50V
C404	1-162-806-11	CERAMIC	0.1uF 10% 50V	C515	1-162-806-11	CERAMIC	0.1uF 10% 50V
C405	1-162-806-11	CERAMIC	0.1uF 10% 50V	C516	1-126-052-11	ELECT	100uF 20% 50V
C406	1-162-806-11	CERAMIC	0.1uF 10% 50V	C517	1-136-165-00	FILM	0.1uF 5% 50V
C407	1-162-806-11	CERAMIC	0.1uF 10% 50V	C521	1-136-810-11	FILM	220PF 5% 100V
C408	1-126-052-11	ELECT	100uF 20% 50V	C522	1-136-810-11	FILM	220PF 5% 100V
C409	1-162-806-11	CERAMIC	0.1uF 10% 50V	C525	1-136-810-11	FILM	220PF 5% 100V
C410	1-126-052-11	ELECT	100uF 20% 50V	C526	1-136-810-11	FILM	220PF 5% 100V
C411	1-162-806-11	CERAMIC	0.1uF 10% 50V	C527	1-136-811-11	FILM	330PF 5% 100V
C412	1-162-806-11	CERAMIC	0.1uF 10% 50V	C528	1-136-811-11	FILM	330PF 5% 100V
C413	1-126-052-11	ELECT	100uF 20% 50V	C529	1-136-192-11	FILM	0.0018uF 2% 100V
C414	1-162-806-11	CERAMIC	0.1uF 10% 50V	C530	1-136-192-11	FILM	0.0018uF 2% 100V
C415	1-162-806-11	CERAMIC	0.1uF 10% 50V	C531	1-136-192-11	FILM	0.0018uF 2% 100V
C416	1-126-052-11	ELECT	100uF 20% 50V	C533	1-137-508-11	FILM	2.2uF 10% 63V
C417	1-136-165-00	FILM	0.1uF 5% 50V	C534	1-107-169-00	MICA	100PF 5% 500V
C418	1-124-122-11	ELECT	100uF 20% 50V	C535	1-107-202-00	MICA	10PF 5% 500V
C420	1-136-810-11	FILM	220PF 5% 100V	C536	1-107-169-00	MICA	100PF 5% 500V
C421	1-136-810-11	FILM	220PF 5% 100V	C550	1-130-480-00	MYLAR	0.0056uF 5% 50V
C424	1-136-810-11	FILM	220PF 5% 100V	C600	1-164-159-11	CERAMIC	0.1uF 50V
C425	1-136-810-11	FILM	220PF 5% 100V	C601	1-124-122-11	ELECT	100uF 20% 50V
C426	1-136-811-11	FILM	330PF 5% 100V	C602	1-136-165-00	FILM	0.1uF 5% 50V
C427	1-136-811-11	FILM	330PF 5% 100V	C603	1-162-294-31	CERAMIC	0.001uF 10% 50V
C428	1-136-192-11	FILM	0.0018uF 2% 100V	C604	1-136-165-00	FILM	0.1uF 5% 50V
C429	1-136-192-11	FILM	0.0018uF 2% 100V	C605	1-161-494-00	CERAMIC	0.022uF 25V
C430	1-136-192-11	FILM	0.0018uF 2% 100V	C606	1-161-494-00	CERAMIC	0.022uF 25V
C432	1-137-508-11	FILM	2.2uF 10% 63V	C607	1-136-165-00	FILM	0.1uF 5% 50V
C433	1-107-169-00	MICA	100PF 5% 500V	C608	1-124-122-11	ELECT	100uF 20% 50V
C434	1-107-202-00	MICA	10PF 5% 500V	C609	1-136-165-00	FILM	0.1uF 5% 50V
C435	1-107-169-00	MICA	100PF 5% 500V	C610	1-126-052-11	ELECT	100uF 20% 50V
C450	1-130-480-00	MYLAR	0.0056uF 5% 50V	C611	1-124-572-11	ELECT	100uF 20% 63V
C501	1-124-122-11	ELECT	100uF 20% 50V	C612	1-162-806-11	CERAMIC	0.1uF 10% 50V
C502	1-136-165-00	FILM	0.1uF 5% 50V	C613	1-107-202-00	MICA	10PF 5% 500V
C503	1-126-052-11	ELECT	100uF 20% 50V	C614	1-107-202-00	MICA	10PF 5% 500V
C504	1-162-806-11	CERAMIC	0.1uF 10% 50V	C615	1-125-663-11	ELECT	1200uF 20% 63V
				C616	1-107-202-00	MICA	10PF 5% 500V
				C617	1-130-483-00	MYLAR	0.01uF 5% 50V

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C618	1-130-483-00	MYLAR	0.01uF 5% 50V	IC403	8-759-900-72	IC NE5532P	
C619	1-162-806-11	CERAMIC	0.1uF 10% 50V	IC404	8-759-900-72	IC NE5532P	
C620	1-124-572-11	ELECT	100uF 20% 63V	IC405	8-759-971-80	IC AD712JN	
C621	1-137-507-11	FILM	1uF 10% 63V	IC406	8-759-998-79	IC OPA27GP	
C622	1-137-507-11	FILM	1uF 10% 63V	IC501	8-759-044-10	IC CXD2562Q	
C623	1-137-507-11	FILM	1uF 10% 63V	IC502	8-759-900-72	IC NE5532P	
C624	1-137-507-11	FILM	1uF 10% 63V	IC503	8-759-900-72	IC NE5532P	
C625	1-164-159-11	CERAMIC	0.1uF 50V	IC504	8-759-900-72	IC NE5532P	
C626	1-164-159-11	CERAMIC	0.1uF 50V	IC505	8-759-971-80	IC AD712JN	
< CONNECTOR >				IC506	8-759-998-79	IC OPA27GP	
* CN401	1-573-263-11	PIN, CONNECTOR 4P		IC601	8-752-342-65	IC CXD2560M	
* CN402	1-573-262-41	PIN, CONNECTOR 3P		IC602	8-759-917-18	IC SN74HCU04AN	
* CN403	1-573-262-11	PIN, CONNECTOR 3P		IC603	8-759-233-64	IC TC74HCU04AF	
* CN501	1-573-263-21	PIN, CONNECTOR 4P		IC604	8-759-900-72	IC NE5532P	
* CN502	1-573-262-31	PIN, CONNECTOR 3P		< COIL >			
* CN503	1-573-262-21	PIN, CONNECTOR 3P		L402	1-410-971-11	INDUCTOR 10uH	
* CN601	1-569-997-11	PIN, CONNECTOR (PC BOARD) 10P		L502	1-410-971-11	INDUCTOR 10uH	
* CN602	1-569-993-11	PIN, CONNECTOR (PC BOARD) 6P		L601	1-410-970-11	INDUCTOR 6.8uH	
* CN603	1-573-261-11	PIN, CONNECTOR 2P		< PHOTO INTERRUPTER >			
* CN604	1-573-262-11	PIN, CONNECTOR 3P		PH401	8-719-902-56	DIODE PC817	
* CN606	1-573-261-41	PIN, CONNECTOR 2P		PH501	8-719-902-56	DIODE PC817	
* CN607	1-573-263-11	PIN, CONNECTOR 4P		< TRANSISTOR >			
* CN608	1-573-262-31	PIN, CONNECTOR 3P		Q401	8-729-322-40	TRANSISTOR 2SA1083E	
* CN609	1-573-261-11	PIN, CONNECTOR 2P		Q402	8-729-184-53	TRANSISTOR 2SC1845-EA	
< DIODE >				Q403	8-729-184-53	TRANSISTOR 2SC1845-EA	
D401	8-719-988-53	DIODE LTZ-MR19		Q404	8-729-184-53	TRANSISTOR 2SC1845-EA	
D402	8-719-988-53	DIODE LTZ-MR19		Q405	8-729-321-35	TRANSISTOR 2SK213	
D403	8-719-987-63	DIODE 1N4148M		Q406	8-729-307-65	TRANSISTOR 2SJ76	
D405	8-719-987-63	DIODE 1N4148M		Q407	8-729-224-62	TRANSISTOR 2SK246-GR	
D450	8-719-987-63	DIODE 1N4148M		Q408	8-729-231-55	TRANSISTOR 2SC2878-AB	
D501	8-719-988-53	DIODE LTZ-MR19		Q450	8-729-900-80	TRANSISTOR DTC114ES	
D502	8-719-988-53	DIODE LTZ-MR19		Q501	8-729-322-40	TRANSISTOR 2SA1083E	
D503	8-719-987-63	DIODE 1N4148M		Q502	8-729-184-53	TRANSISTOR 2SC1845-EA	
D505	8-719-987-63	DIODE 1N4148M		Q503	8-729-184-53	TRANSISTOR 2SC1845-EA	
D550	8-719-987-63	DIODE 1N4148M		Q504	8-729-184-53	TRANSISTOR 2SC1845-EA	
D600	8-719-987-63	DIODE 1N4148M		Q505	8-729-321-35	TRANSISTOR 2SK213	
D601	8-719-987-63	DIODE 1N4148M		Q506	8-729-307-65	TRANSISTOR 2SJ76	
D602	8-719-987-63	DIODE 1N4148M		Q507	8-729-224-62	TRANSISTOR 2SK246-GR	
D603	8-719-988-53	DIODE LTZ-MR19		Q508	8-729-231-55	TRANSISTOR 2SC2878-AB	
D604	8-719-114-26	DIODE RD4.7JS-B2		Q550	8-729-900-80	TRANSISTOR DTC114ES	
D605	8-719-114-26	DIODE RD4.7JS-B2		Q601	8-729-900-65	TRANSISTOR DTA144ES	
D606	8-719-988-53	DIODE LTZ-MR19		Q602	8-729-322-40	TRANSISTOR 2SA1083E	
D607	8-719-988-53	DIODE LTZ-MR19		Q603	8-729-620-23	TRANSISTOR 2SC3246-JK	
D608	8-719-114-30	DIODE RD5.1JS-B2		Q604	8-729-104-18	TRANSISTOR 2SC3514	
D610	8-719-987-63	DIODE 1N4148M		Q605	8-729-307-65	TRANSISTOR 2SJ76	
< IC >				Q606	8-729-322-40	TRANSISTOR 2SA1083E	
IC401	8-759-044-10	IC CXD2562Q		Q607	8-729-184-53	TRANSISTOR 2SC1845-EA	
IC402	8-759-900-72	IC NE5532P					

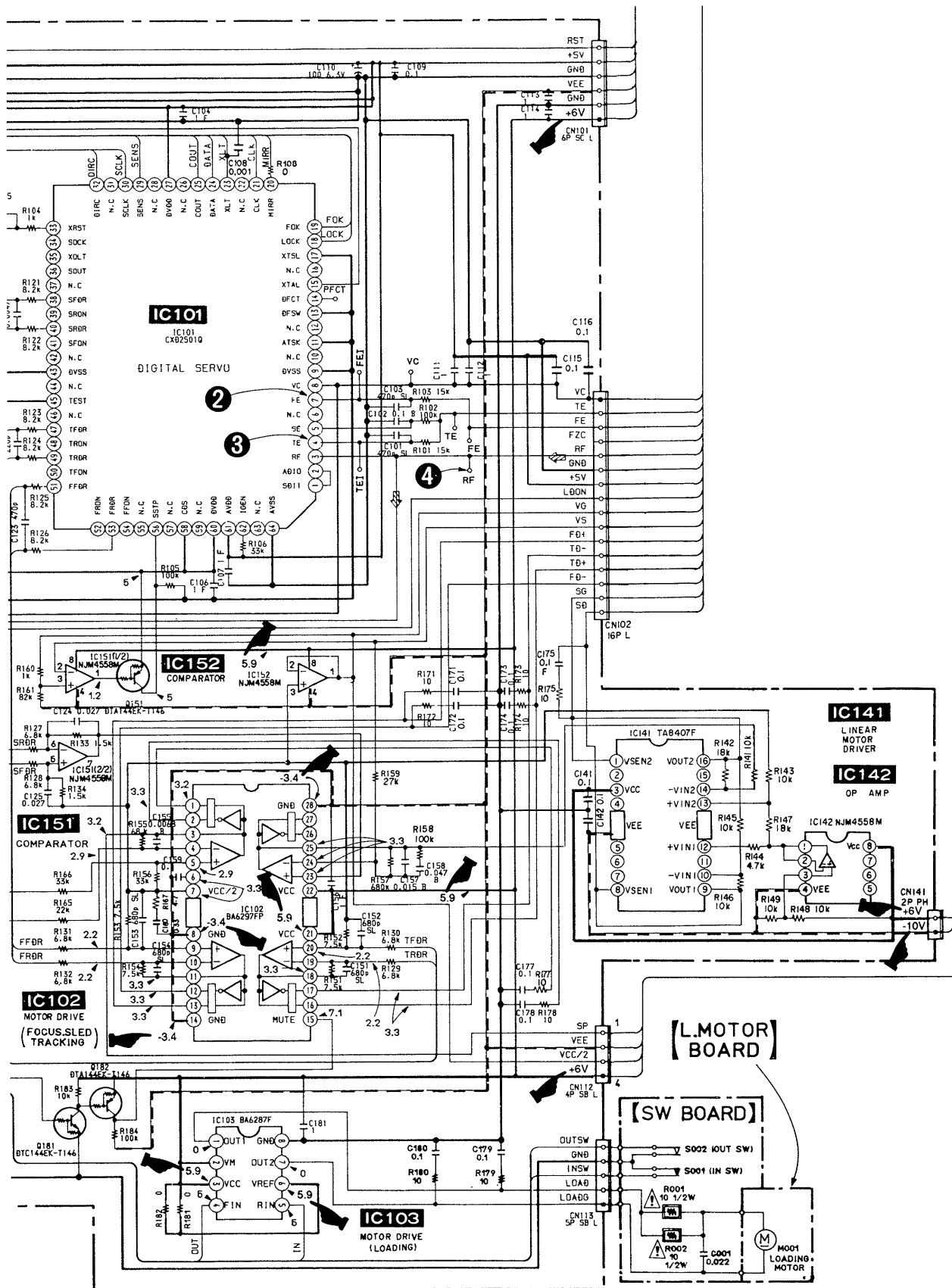
AUDIO

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
Q608	8-729-184-53	TRANSISTOR	2SC1845-EA	R501	1-249-947-11	CARBON	10K 1% 1/4W
Q609	8-729-203-02	TRANSISTOR	2SK30A-O	R502	1-249-947-11	CARBON	10K 1% 1/4W
< RESISTOR >				R503	1-249-947-11	CARBON	10K 1% 1/4W
R401	1-249-947-11	CARBON	10K 1% 1/4W	R504	1-249-947-11	CARBON	10K 1% 1/4W
R402	1-249-947-11	CARBON	10K 1% 1/4W	R505	1-249-947-11	CARBON	10K 1% 1/4W
R403	1-249-947-11	CARBON	10K 1% 1/4W	R506	1-249-947-11	CARBON	10K 1% 1/4W
R404	1-249-947-11	CARBON	10K 1% 1/4W	R507	1-249-947-11	CARBON	10K 1% 1/4W
R405	1-249-947-11	CARBON	10K 1% 1/4W	R508	1-249-947-11	CARBON	10K 1% 1/4W
R406	1-249-947-11	CARBON	10K 1% 1/4W	R509	1-249-944-11	CARBON	7.5K 1% 1/4W
R407	1-249-947-11	CARBON	10K 1% 1/4W	R510	1-249-944-11	CARBON	7.5K 1% 1/4W
R408	1-249-947-11	CARBON	10K 1% 1/4W	R511	1-249-944-11	CARBON	7.5K 1% 1/4W
R409	1-249-944-11	CARBON	7.5K 1% 1/4W	R512	1-249-944-11	CARBON	7.5K 1% 1/4W
R410	1-249-944-11	CARBON	7.5K 1% 1/4W	R517	1-249-944-11	CARBON	7.5K 1% 1/4W
R411	1-249-944-11	CARBON	7.5K 1% 1/4W	R518	1-249-944-11	CARBON	7.5K 1% 1/4W
R412	1-249-944-11	CARBON	7.5K 1% 1/4W	R519	1-249-945-11	CARBON	8.2K 1% 1/4W
R417	1-249-944-11	CARBON	7.5K 1% 1/4W	R520	1-249-945-11	CARBON	8.2K 1% 1/4W
R418	1-249-944-11	CARBON	7.5K 1% 1/4W	R521	1-247-721-11	CARBON	4.7K 5% 1/4W F
R419	1-249-945-11	CARBON	8.2K 1% 1/4W	R522	1-249-929-11	CARBON	1.8K 1% 1/4W
R420	1-249-945-11	CARBON	8.2K 1% 1/4W	R523	1-249-929-11	CARBON	1.8K 1% 1/4W
R421	1-247-721-11	CARBON	4.7K 5% 1/4W F	R524	1-249-929-11	CARBON	1.8K 1% 1/4W
R422	1-247-721-11	CARBON	4.7K 5% 1/4W F	R525	1-249-929-11	CARBON	1.8K 1% 1/4W
R423	1-249-929-11	CARBON	1.8K 1% 1/4W	R526	1-249-977-11	CARBON	180K 1% 1/4W
R424	1-249-929-11	CARBON	1.8K 1% 1/4W	R527	1-247-713-11	CARBON	1K 5% 1/4W F
R425	1-249-929-11	CARBON	1.8K 1% 1/4W	R528	1-214-730-00	METAL	1.1K 1% 1/4W
R426	1-249-929-11	CARBON	1.8K 1% 1/4W	R529	1-249-462-11	CARBON	22K 5% 1/4W
R427	1-249-977-11	CARBON	180K 1% 1/4W	R530	1-249-915-11	CARBON	470 1% 1/4W
R428	1-247-713-11	CARBON	1K 5% 1/4W F	R531	1-249-948-11	CARBON	11K 1% 1/4W
R429	1-214-730-00	METAL	1.1K 1% 1/4W	R532	1-249-940-11	CARBON	5.1K 1% 1/4W
R430	1-249-462-11	CARBON	22K 5% 1/4W	R533	1-249-948-11	CARBON	11K 1% 1/4W
R431	1-249-915-11	CARBON	470 1% 1/4W	R534	1-249-940-11	CARBON	5.1K 1% 1/4W
R432	1-249-948-11	CARBON	11K 1% 1/4W	R535	1-249-915-11	CARBON	470 1% 1/4W
R433	1-249-940-11	CARBON	5.1K 1% 1/4W	R536	1-259-531-11	CARBON	100 1% 1/2W
R434	1-249-948-11	CARBON	11K 1% 1/4W	R537	1-259-531-11	CARBON	100 1% 1/2W
R435	1-249-940-11	CARBON	5.1K 1% 1/4W	R538	1-259-519-11	CARBON	33 1% 1/2W
R436	1-249-915-11	CARBON	470 1% 1/4W	R539	1-259-519-11	CARBON	33 1% 1/2W
R437	1-259-531-11	CARBON	100 1% 1/2W	R540	1-249-465-11	CARBON	47K 5% 1/4W
R438	1-259-531-11	CARBON	100 1% 1/2W	R541	1-249-465-11	CARBON	47K 5% 1/4W
R439	1-259-519-11	CARBON	33 1% 1/2W	R542	1-259-500-11	CARBON	1M 5% 1/6W
R440	1-259-519-11	CARBON	33 1% 1/2W	R544	1-259-519-11	CARBON	33 1% 1/2W
R441	1-249-465-11	CARBON	47K 5% 1/4W	R545	1-249-586-11	CARBON	27K 5% 1/4W
R442	1-259-500-11	CARBON	1M 5% 1/6W	R546	1-247-721-11	CARBON	4.7K 5% 1/4W F
R444	1-259-519-11	CARBON	33 1% 1/2W	R547	1-247-713-11	CARBON	1K 5% 1/4W F
R445	1-249-586-11	CARBON	27K 5% 1/4W	R556	1-259-426-11	CARBON	820 5% 1/6W
R446	1-249-465-11	CARBON	47K 5% 1/4W	R557	1-259-442-11	CARBON	3.9K 5% 1/6W
R447	1-247-713-11	CARBON	1K 5% 1/4W F	R558	1-259-450-11	CARBON	8.2K 5% 1/6W
R456	1-259-426-11	CARBON	820 5% 1/6W	R559	1-259-472-11	CARBON	68K 5% 1/6W
R457	1-259-442-11	CARBON	3.9K 5% 1/6W	R600	1-259-404-11	CARBON	100 5% 1/6W
R458	1-259-450-11	CARBON	8.2K 5% 1/6W	R601	1-259-428-11	CARBON	1K 5% 1/6W
R459	1-259-472-11	CARBON	68K 5% 1/6W	R602	1-259-420-11	CARBON	470 5% 1/6W
				R603	1-259-420-11	CARBON	470 5% 1/6W

Ref. No.	Part No.	Description				Remark
R604	1-259-420-11	CARBON	470	5%	1/6W	
R605	1-259-420-11	CARBON	470	5%	1/6W	
R606	1-259-416-11	CARBON	330	5%	1/6W	
R607	1-259-448-11	CARBON	6.8K	5%	1/6W	
R608	1-259-424-11	CARBON	680	5%	1/6W	
R609	1-259-428-11	CARBON	1K	5%	1/6W	
R610	1-259-488-11	CARBON	330K	5%	1/6W	
R613	1-259-426-11	CARBON	820	5%	1/6W	
R614	1-259-412-11	CARBON	220	5%	1/6W	
R615	1-259-444-11	CARBON	4.7K	5%	1/6W	
R616	1-259-380-11	CARBON	10	5%	1/6W	
R617	1-249-947-11	CARBON	10K	1%	1/4W	
R618	1-247-700-11	CARBON	100	5%	1/4W	F
R619	1-247-700-11	CARBON	100	5%	1/4W	F
R620	1-247-721-11	CARBON	4.7K	5%	1/4W	F
R621	1-247-721-11	CARBON	4.7K	5%	1/4W	F
R622	1-247-700-11	CARBON	100	5%	1/4W	F
R623	1-249-907-11	CARBON	220	1%	1/4W	
R624	1-249-907-11	CARBON	220	1%	1/4W	
R625	1-249-497-11	CARBON	33K	5%	1/4W	
R626	1-247-700-11	CARBON	100	5%	1/4W	F
R627	1-259-476-11	CARBON	100K	5%	1/6W	
R628	1-259-488-11	CARBON	330K	5%	1/6W	
R629	1-259-484-11	CARBON	220K	5%	1/6W	
< RELAY >						
RY401	1-515-804-11	RELAY				
RY501	1-515-804-11	RELAY				
< THERMISTOR >						
TH601	1-806-882-11	THERMISTOR, POSITIVE				
TH602	1-806-882-11	THERMISTOR, POSITIVE				
< VIBRATOR >						
X601	1-577-685-11	FILTER, CRYSTAL (16MHz)				
X602	1-577-686-11	VIBRATOR, CRYSTAL (45MHz)				



- **SERVO (1) (A) BOARD (Page 22 Address K-13)**



English

93L0979-1D

Printed in Japan

© 1993.12

Published by Audio Sector Quality Assurance Dept.

Sony Corporation
Audio Group

CDP-X779ES

SONY[®] **SERVICE MANUAL**

US Model
Canadian Model
AEP Model

CORRECTION-2

File this Correction with Service Manual.

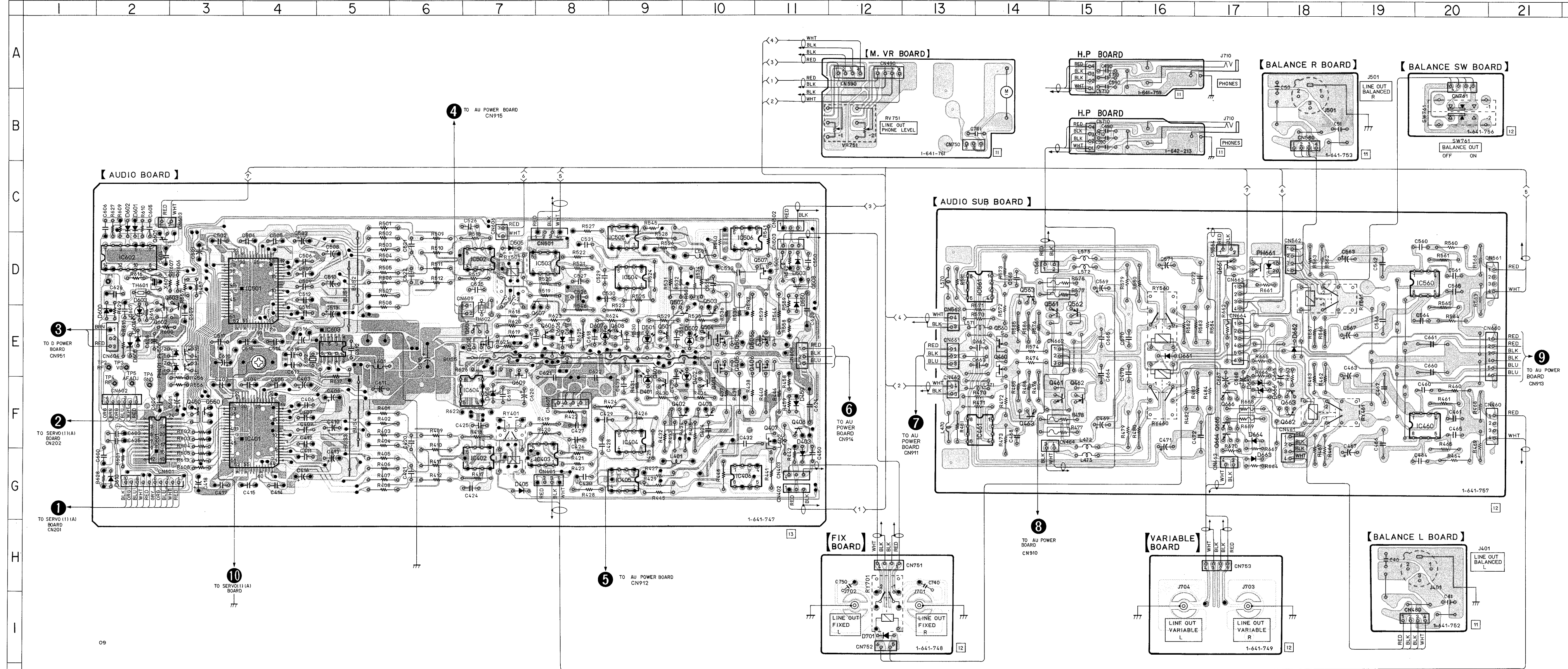
Refer this correction manual for printed wiring board-Audio section
due to error of printing on page 12, 13 & 14 which is previous issued.

3-3. PRINTED WIRING BOARD —Audio Section—

— AUDIO SECTION —

Note:

- : parts extracted from the component side.
- : parts mounted on the conductor side.
- ▨ : Pattern from the side which enable seeing.
- : parts extracted from the conductor side.
- : Through hole.
- ▨ : Pattern of the rear side.



CDP-X779ES

SONY[®] SERVICE MANUAL

*US Model
Canadian Model
AEP Model*

CORRECTION-3

Correct your service manual as shown below.

____ (Under line) :indicates corrected portion.

Page	INCORRECT			CORRECT	
	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Description</u>
34	69	4-947-958-51	CAP (S), KNOB (AEP:BLACK)	4-947-958- <u>41</u>	CAP (S), KNOB (AEP:BLACK)
	70	4-947-958-41	CAP (S), KNOB (AEP:BLACK)	4-947-958- <u>51</u>	CAP (S), KNOB (AEP:BLACK)

(SPM-95028)