

CDP-C225/C325

SERVICE MANUAL

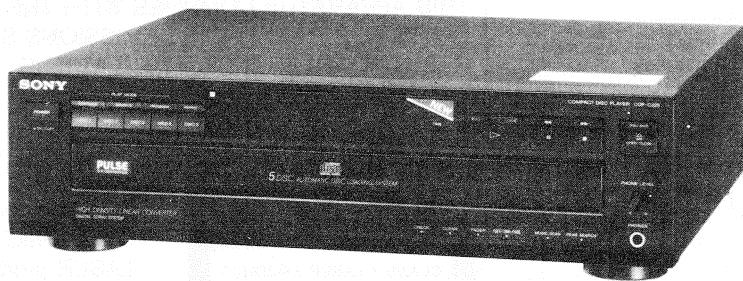


Photo: CDP-C225

US Model

Canadian Model

CDP-C225/C325

Australian Model

CDP-C325

AEP Model

CDP-C225

COMPACT
DISC
DIGITAL AUDIO

| | |
|------------------------------------|-----------|
| Model Name Using Similar Mechanism | CDP-C312M |
| Optical Pick-up Block Type | BU-5BD8B |

SPECIFICATIONS

| | |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System | Compact disc digital audio system |
| Laser | Semiconductor laser ($\lambda = 780 \text{ nm}$) |
| Laser output | Emission duration: continuous Max. $44.6 \mu\text{W}^*$ <small>* This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.</small> |
| Frequency response | 2 Hz — 20 kHz ($\pm 0.5 \text{ dB}$) |
| Signal to noise ratio | More than 100 dB |
| Dynamic range | More than 98 dB |
| Harmonic distortion | Less than 0.005% (1 kHz) |
| Channel separation | More than 100 dB (1 kHz) |
| Wow and flutter | Below measurable limit |
| Outputs | LINE OUT (phono jacks) Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms PHONES (stereo phone jack) Output level 0 — 10 mW (variable) (at 32 ohms) |

| | |
|-------------------|----------------------------------------------------------------------------------------------------------------------------|
| Power consumption | 12 W |
| Dimensions | Approx. $430 \times 125 \times 385 \text{ mm}$ (w/h/d) (17 × 5 × 15½ inches) including projecting parts and controls |
| Weight | Approx. 5.6 kg (12 lbs 6 oz), net |

Remote commander RM-D325 (CDP-C325 only)

| | |
|-----------------------|--------------------------------------------------------|
| Remote control system | Infrared control |
| Power requirements | 3 V DC with two batteries size AA (IEC designation R6) |

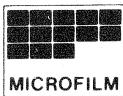
Supplied accessories

| |
|-----------------------------------------------------------------------|
| Audio signal connecting cord (phono plug × 2 ↔ phono plug × 2) (1) |
| Remote commander (1) (CDP-C325 only) |
| Sony SUM-3 (NS) batteries (2) (CDP-C325 only) |
| Operating Manual (1) |

Design and specifications subject to change without notice.

General

| | |
|--------------------|----------------------------------------------------------------------------------------------------------------------------|
| Power requirements | US, Canadian Model: 120 V AC, 60Hz UK, Australian Model: 240 V AC, 50/60Hz AEP Model: 220-230 V AC, 50/60Hz |
|--------------------|----------------------------------------------------------------------------------------------------------------------------|

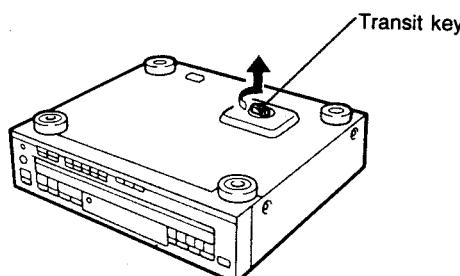


COMPACT DISK PLAYER
SONY®

Note on the Transit Key

The transit key on the bottom exterior of the unit protects the optical system against shock during transportation. Before operating the CD player, be sure to remove the key by following the instructions on the label, and store it in a safe place.

When transporting the unit, replace the key in its original hole and lock it in place.



For the customers in Canada

CAUTION:

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

THIS APPARATUS COMPLIES WITH THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS SET OUT IN RADIO INTERFERENCE REGULATIONS.

For the customers in Australia

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

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

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SAFETY-RELATED COMPONENT WARNING!!

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

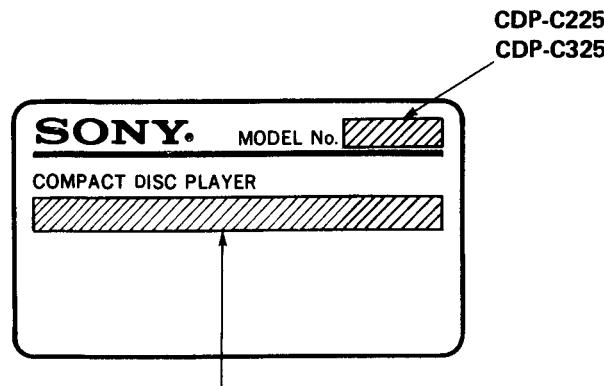
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

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

SAFETY CHECK-OUT

MODEL IDENTIFICATION

—Model Number Label—



US, Canadian model : AC : 120V 60Hz

UK, Australian model : AC : 240V~50/60Hz

AEP model : AC : 220~230V~50/60Hz

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 microamper). 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 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

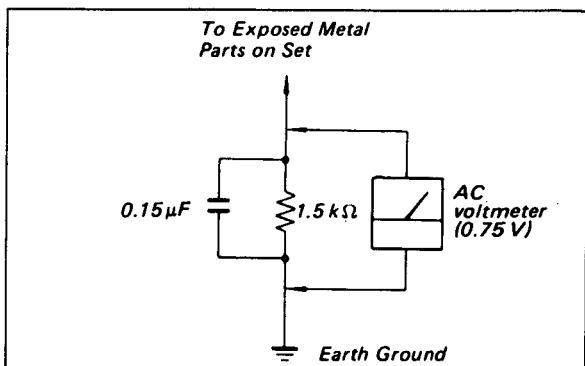


Fig. A. Using an AC voltmeter to check AC leakage.

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.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

1. Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output: max. 44.6 μ 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.

2. During service, do not take the Optical Pick-up Block apart, and do not adjust the APC circuit. If there is a breakdown in the APC circuit (including laser diode), replace the entire Optocal Pick-up Block (including APC board).

BESKYTTELSE AF ØJNE MOD LASERSTRÅLING UNDER SERVICE

I dette apparat anvendes laserlys. Derfor skal nedenstående instruktioner nøje følges under service.

Følg iøvrigt instruktionerne i servicemanualen.

ADVARSEL!!

Under service må øjnene ikke komme nær objektiv-linsen på den optiske pick-up enhed. I tilfælde af at det er nødvendigt at kontrollere udsendelsen af laserlys, skal det ske i en afstand af mere end 25 cm fra den optiske pick-up.

1. Laser-didoe data

- Materiale: GaAlAs
- Bølgelængde: 780 nm
- Udstråling: Kontinuerlig
- Laseroutput: Max. 0,4 mW*

* Målt i 1,6 mm afstand fra overfladen af objektiv-linsen på den optiske pick-up enhed.

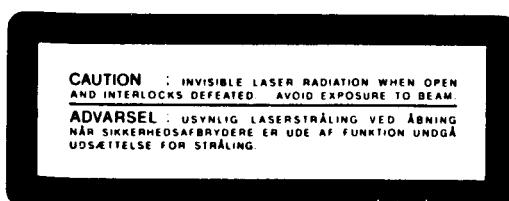
- Klassifikation: Klasse IIIb.

2. Adskil aldrig den optiske pick-up enhed under service, og juster ikke APC kredsløbet (Automatic Power Control). Hvis APC kredsløbet (incl. laser-dioden) bryder ned, skal hele den optiske pick-up enhed (incl. APC printkortet) udskiftes.

LASER ADVARSEL MÆRKNING

Følgende mærkning findes indvendig i apparatet:

1. Advarsel Mærkning

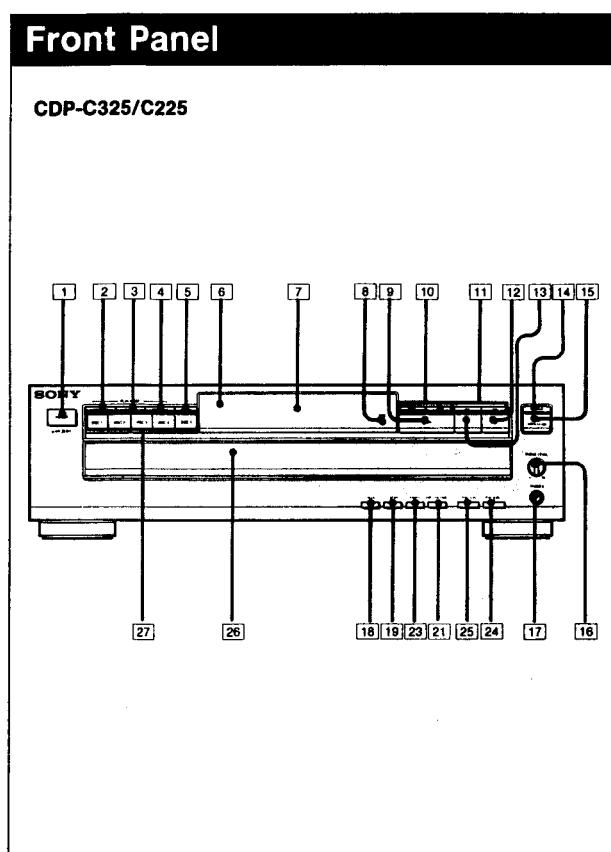


VAROITUS: Laite sisältää, laserdiordin, joka lähettilä (näkymätöntä) silmille vaarallista lasersateilyä.

SECTION 1

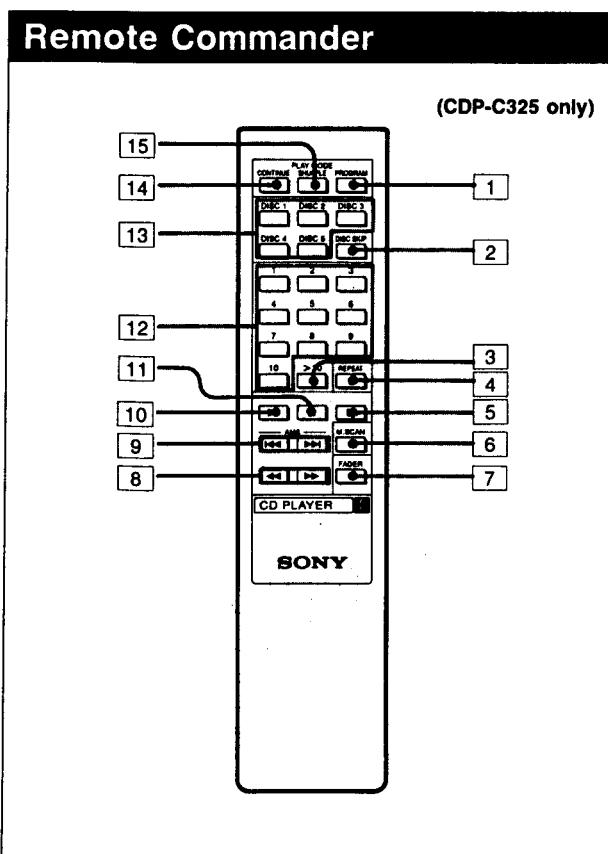
GENERAL

1-1. LOCATION OF CONTROLS



- [1] POWER switch
- [2] CONTINUE button
- [3] SHUFFLE button
- [4] PROGRAM button
- [5] REPEAT button
- [6] Remote sensor
- [7] Display window
- [8] TIME button
- [9] ▶ (play) button
- [10] ▲◀▶ (AMS*) buttons
- [11] ▲◀▶ (manual search) buttons
- [12] ■ (stop) button
- [13] II (pause) button
- [14] DISC SKIP button
- [15] ▲ OPEN/CLOSE button
- [16] PHONE LEVEL (Headphones) control
- [17] PHONES (Headphones) jack
- [18] CHECK (program check) button
- [19] CLEAR (program clear) button
- [21] EDIT/TIME FADE button
- [23] FADER button
- [24] PEAK SEARCH button
- [25] MUSIC SCAN button
- [26] Disc tray
- [27] DISC 1-5 buttons

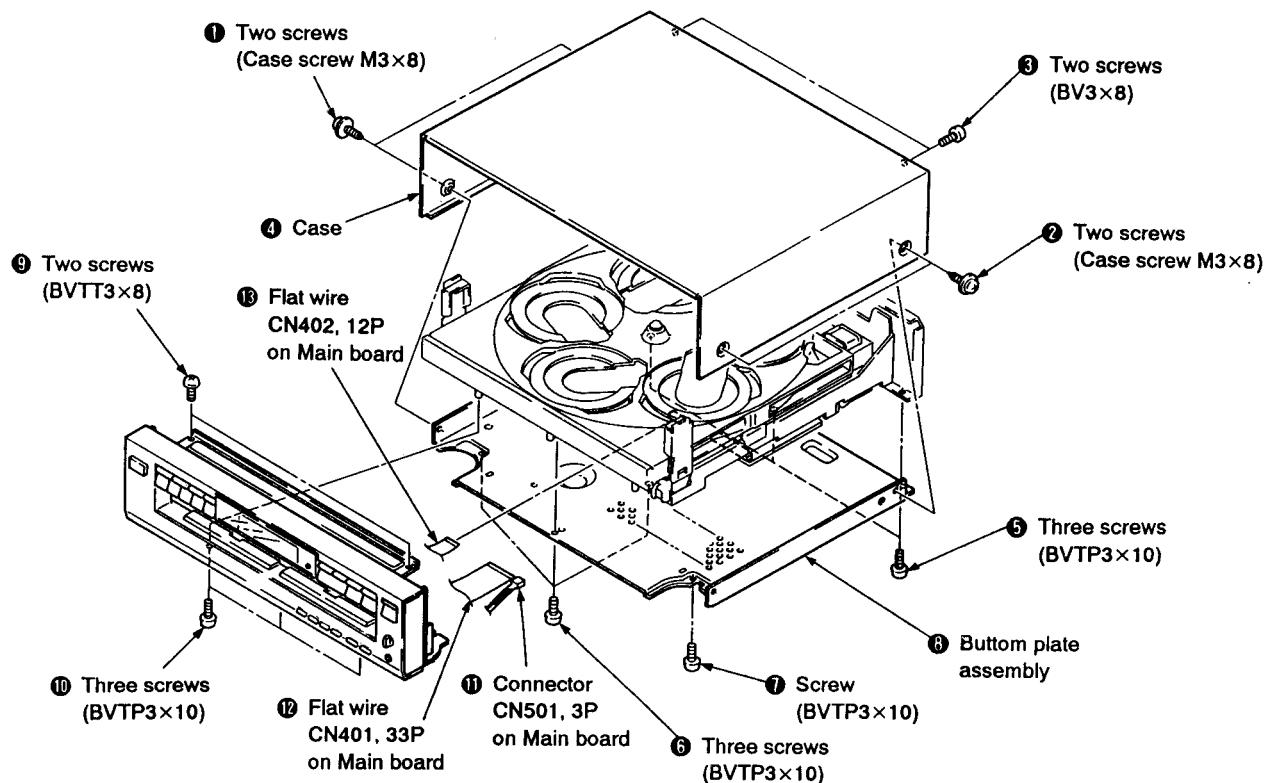
* AMS is the abbreviation of Automatic Music Sensor.



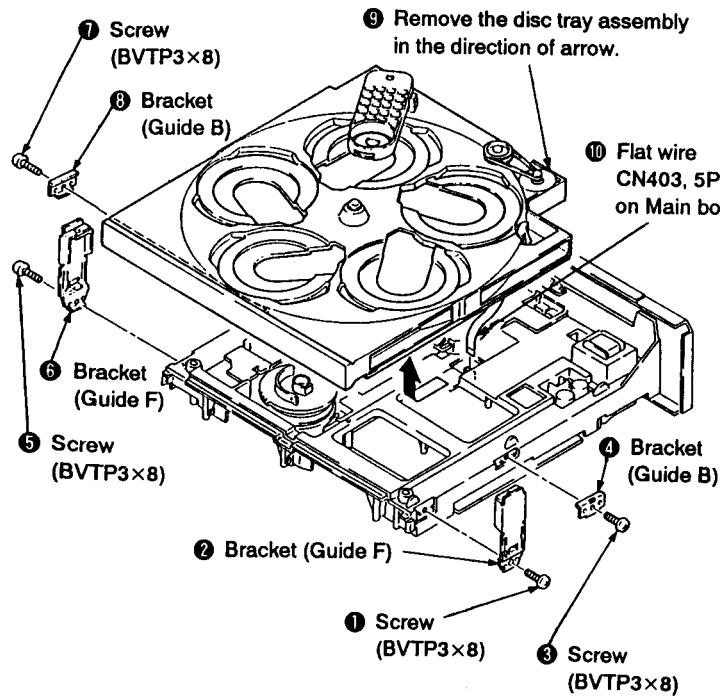
- [1] PROGRAM button
- [2] DISC SKIP button
- [3] > 10 (over 10) button
- [4] REPEAT button
- [5] ■ (stop) button
- [6] M.SCAN (Music scan) button
- [7] FADER button
- [8] ▲◀▶ (manual search) buttons
- [9] ▲◀▶ (AMS) buttons
- [10] ▶ (play) button
- [11] II (pause) button
- [12] Numeric buttons (1-10)
- [13] DISC 1-5 buttons
- [14] CONTINUE button
- [15] SHUFFLE button

SECTION 2 DISASSEMBLY

2-1. REMOVAL OF FRONT PANEL AND CASE ASSEMBLIES

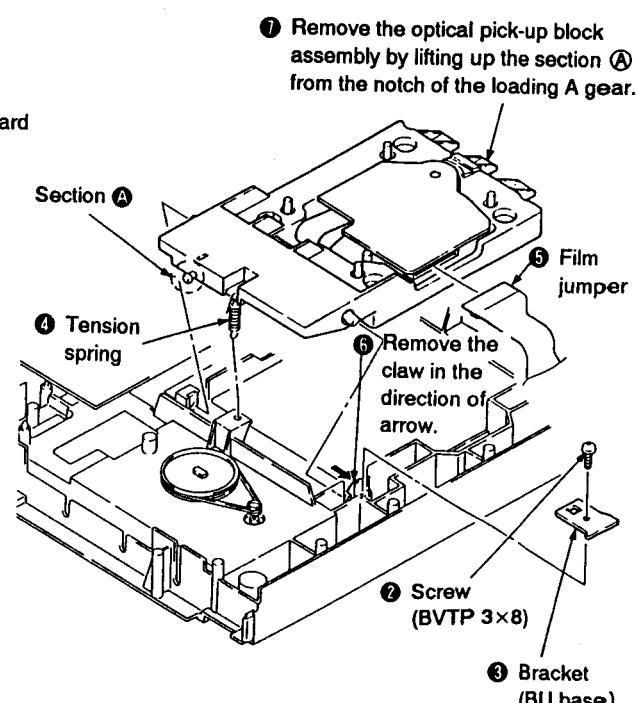


2-2. REMOVAL OF DISC TRAY ASSEMBLY



2-3. REMOVAL OF OPTICAL PICK-UP BLOCK ASSEMBLY

1) Replace the set up side down.



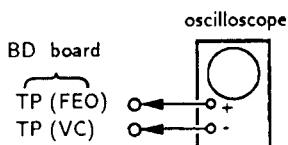
SECTION 3

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.

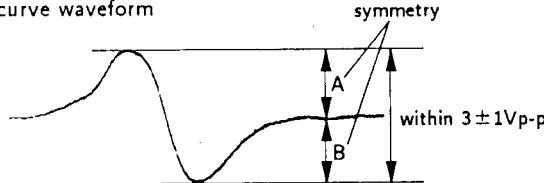
S Curve Check



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 $3 \pm 1V_{p-p}$.

S curve waveform

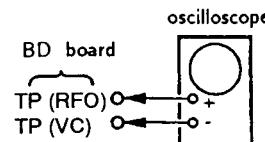


5. After check, remove the lead wire connected in step 2.

Note :

- Try to mesure 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

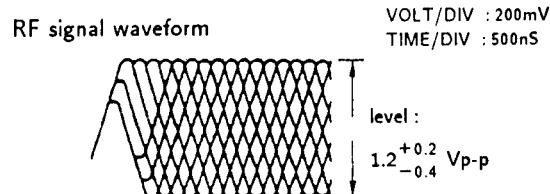


Procedure :

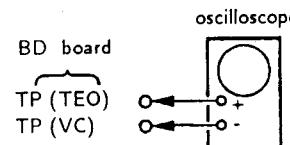
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

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 osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

Traverse oscilloscope

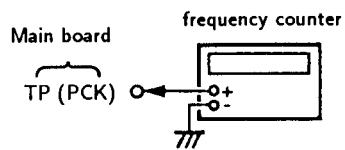


6. Remove the lead wire connected in step 1.

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

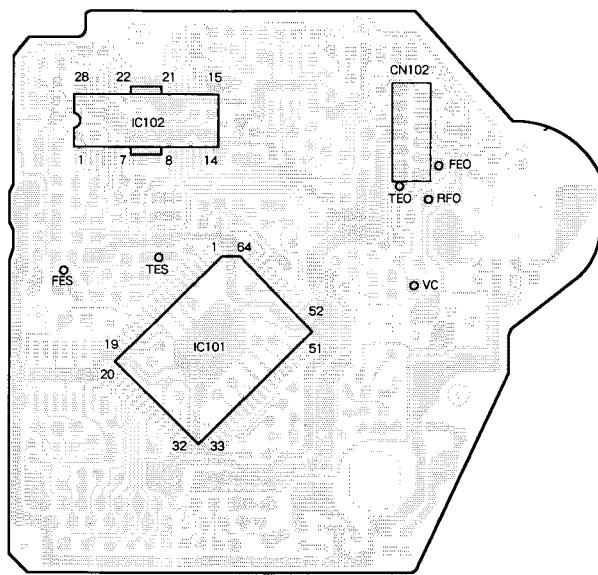
This gain has a margin, so even if it is slightly off. There is no problem.

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.

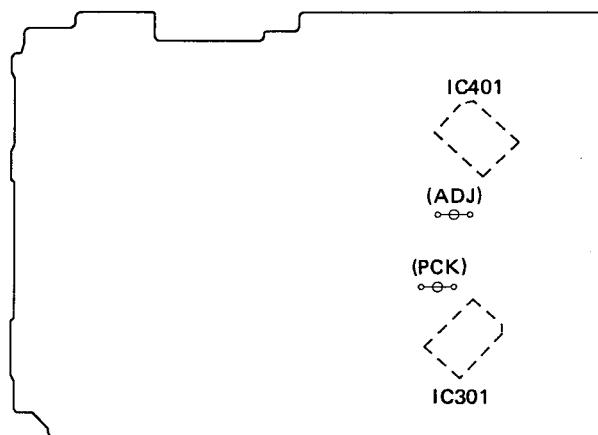
Adjustment Locations : [BD board]

— conductor side —



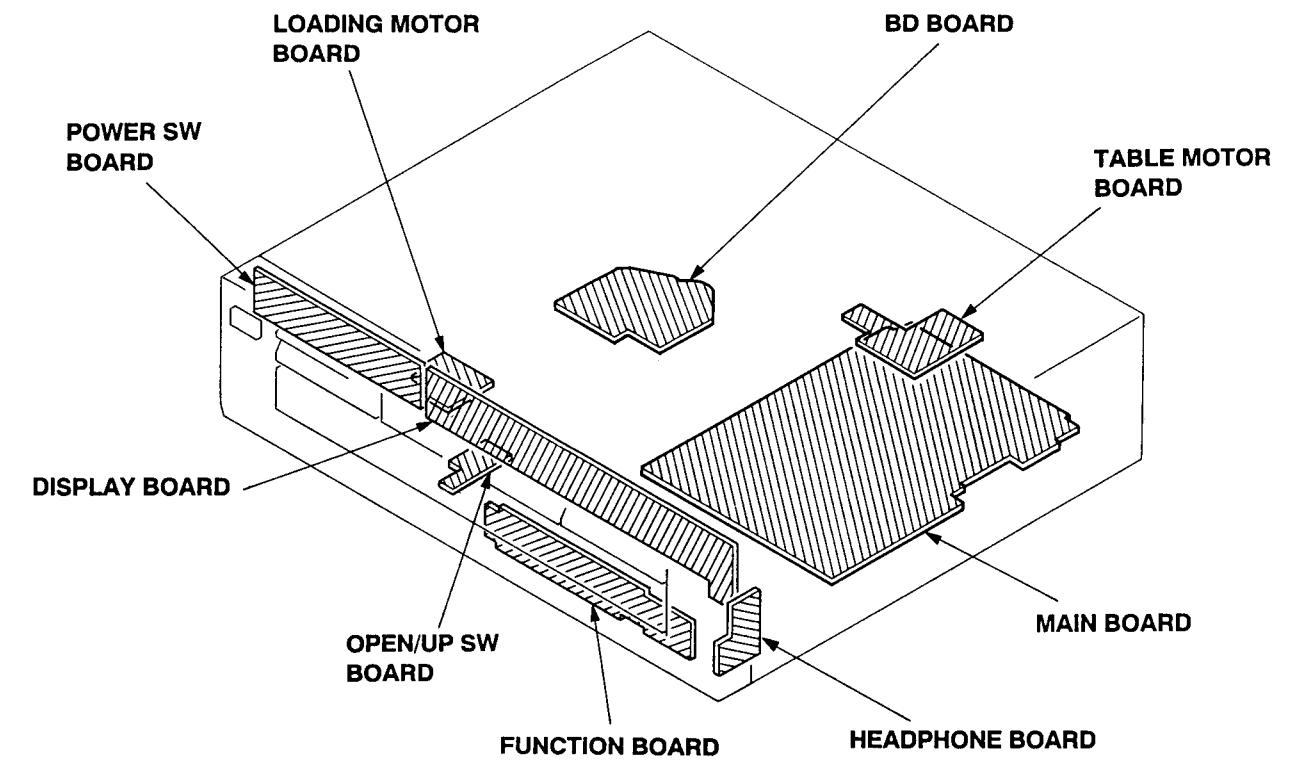
[Main board]

— component side —

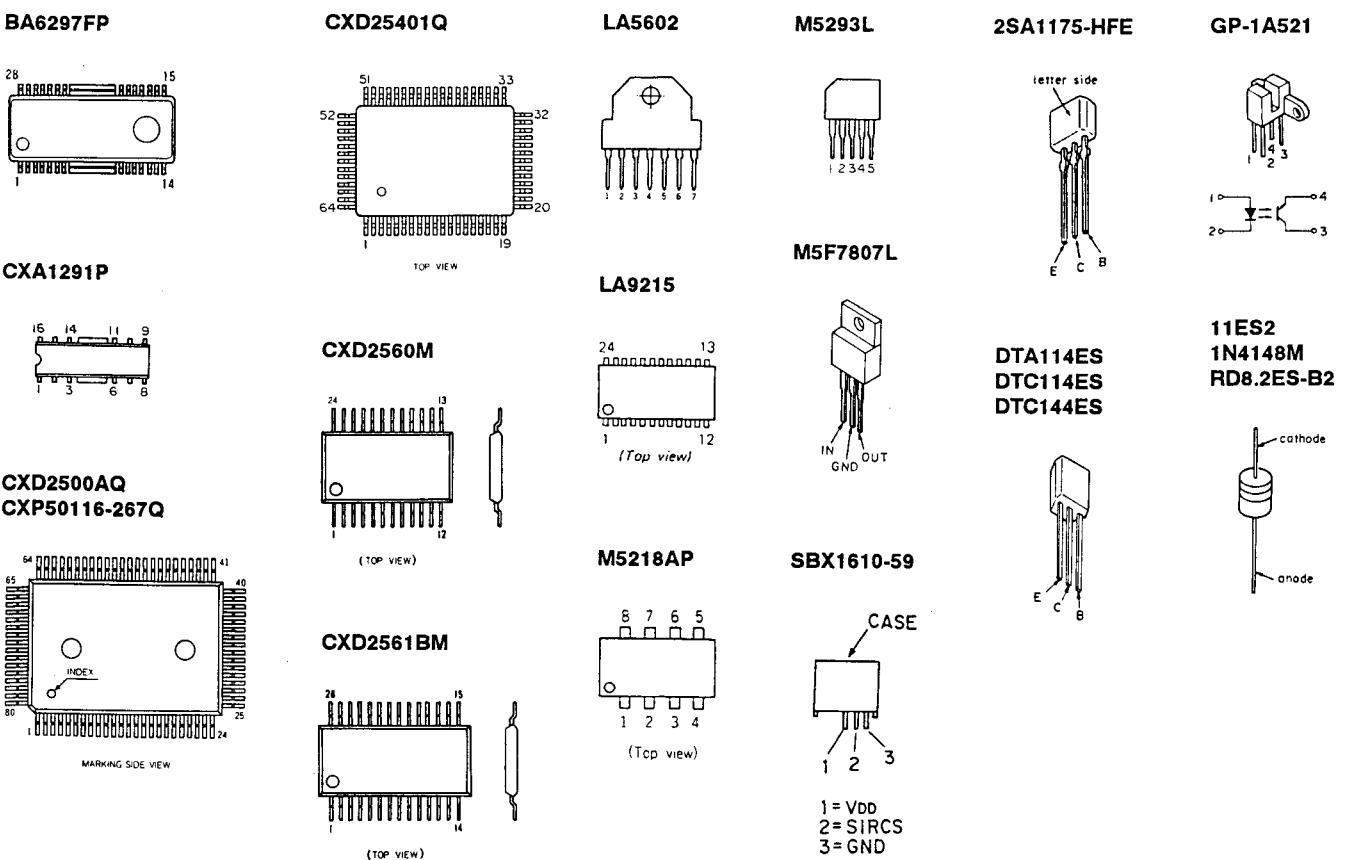


SECTION 4 DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION

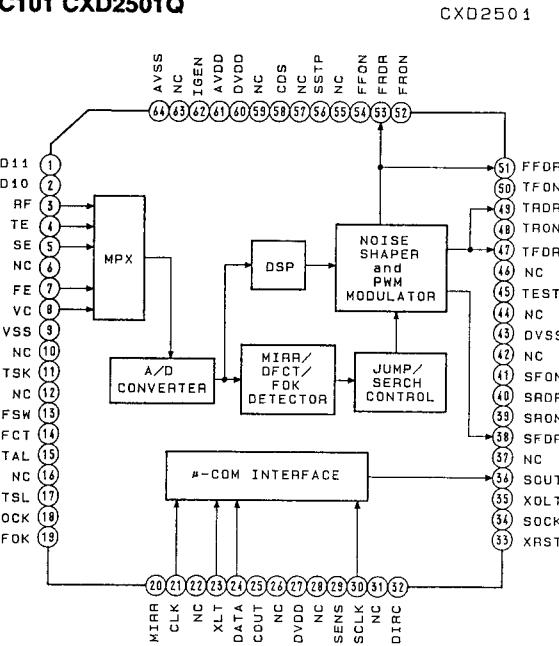


4-2. SEMICONDUCTOR LEAD LAYOUTS

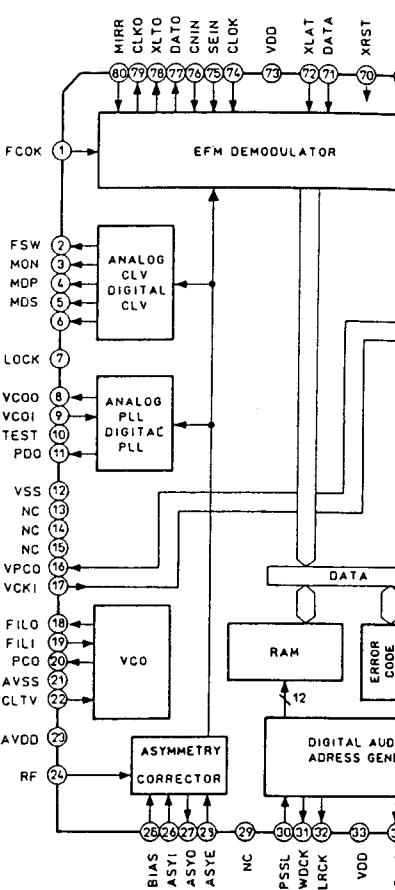


4-3. IC BLOCK DIAGRAMS

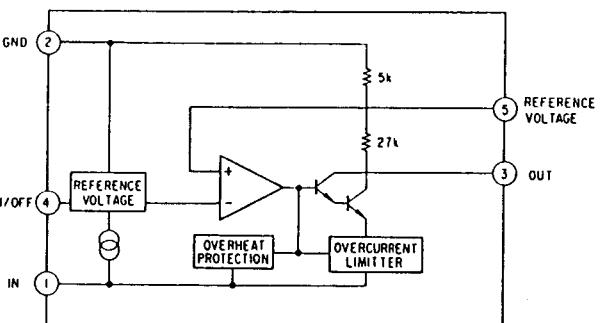
IC101 CXD2501Q



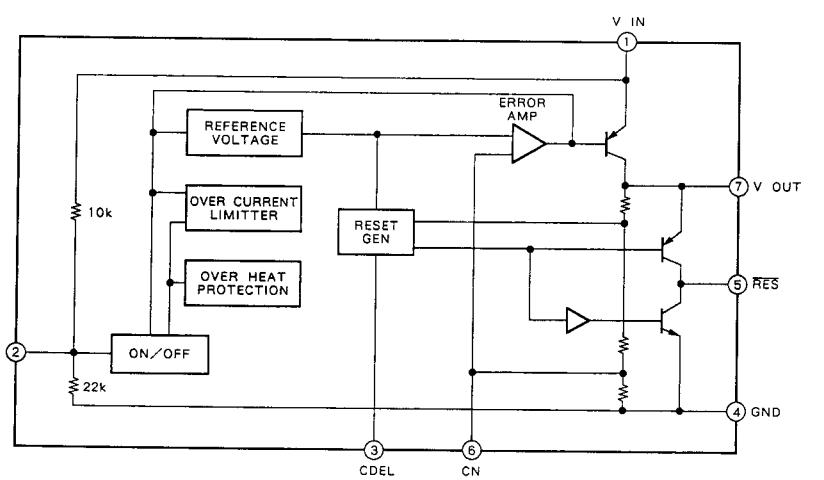
IC301 CXD2500AQ



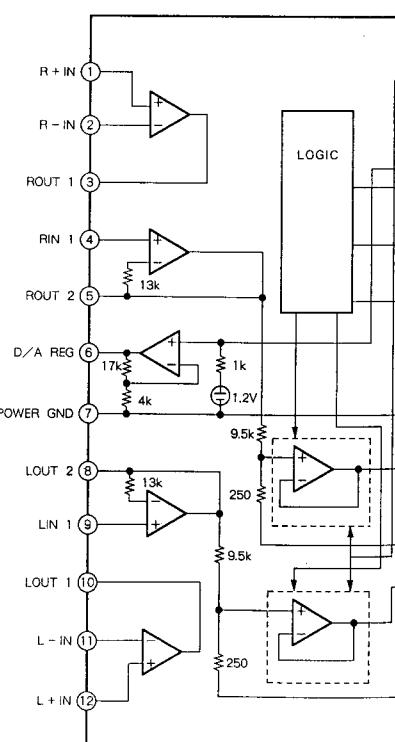
IC201 M5293L



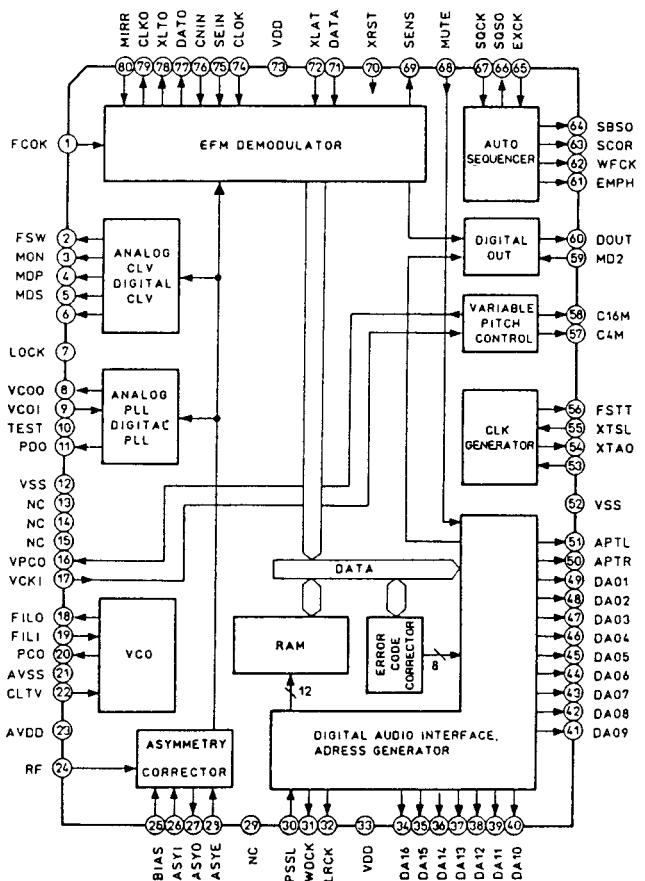
IC202 LA5602



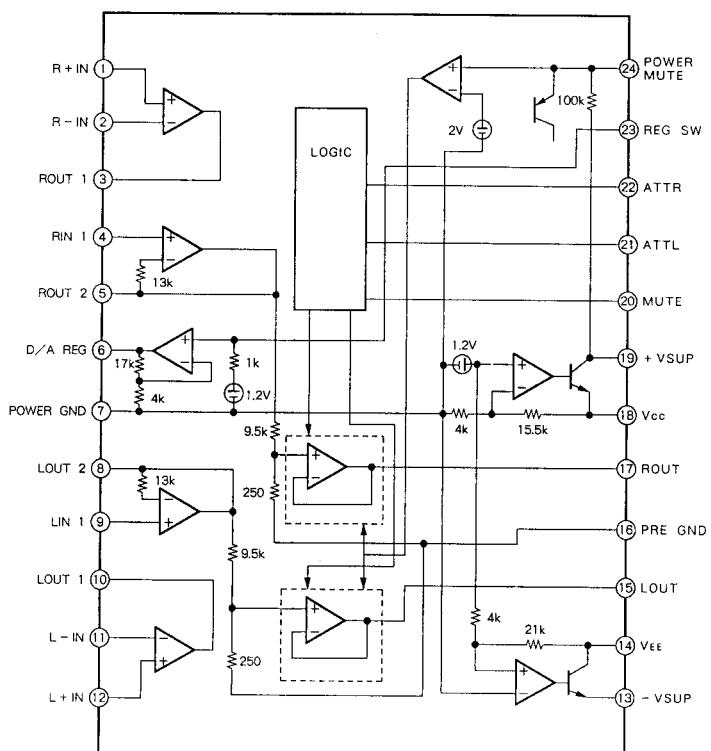
IC306 LA9215



IC301 CXD2500AQ



IC306 LA9215

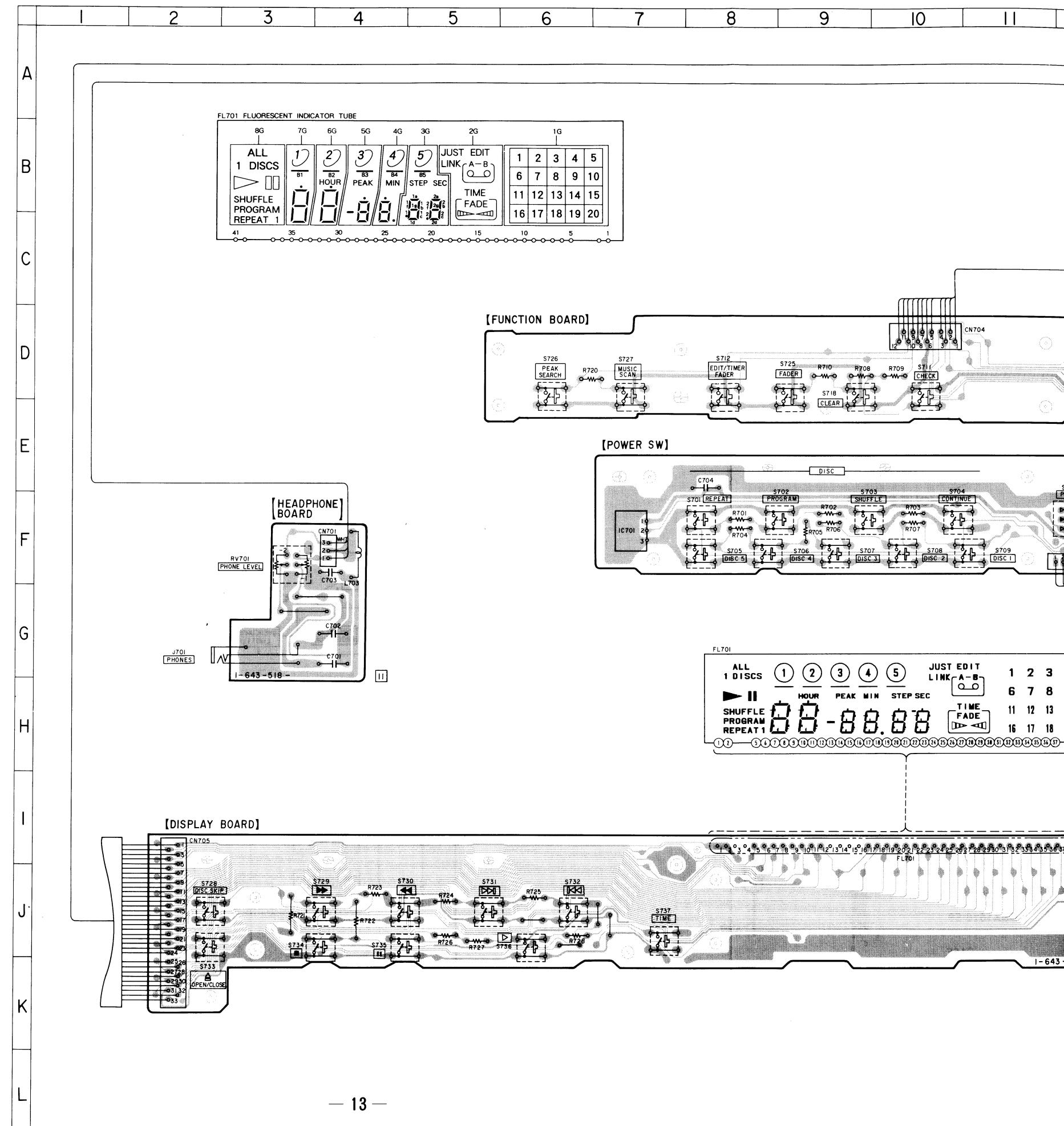


• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D201 | F-21 |
| D202 | F-21 |
| D203 | E-21 |
| D204 | E-21 |
| D205 | F-21 |
| D206 | E-21 |
| D207 | D-19 |
| D208 | H-19 |
| D385 | K-21 |
| D701 | I-28 |
| IC101 | E-27 |
| IC102 | C-26 |
| IC201 | F-21 |
| IC202 | F-20 |
| IC204 | E-21 |
| IC301 | I-16 |
| IC302 | J-18 |
| IC303 | I-20 |
| IC306 | I-23 |
| IC401 | F-16 |
| IC402 | E-17 |
| IC501 | G-20 |
| IC701 | F-7 |
| Q201 | G-20 |
| Q302 | H-21 |
| Q303 | H-21 |
| Q304 | H-21 |
| Q305 | H-21 |
| Q401 | D-15 |

Note:

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



A

B

C

D

F

5

8

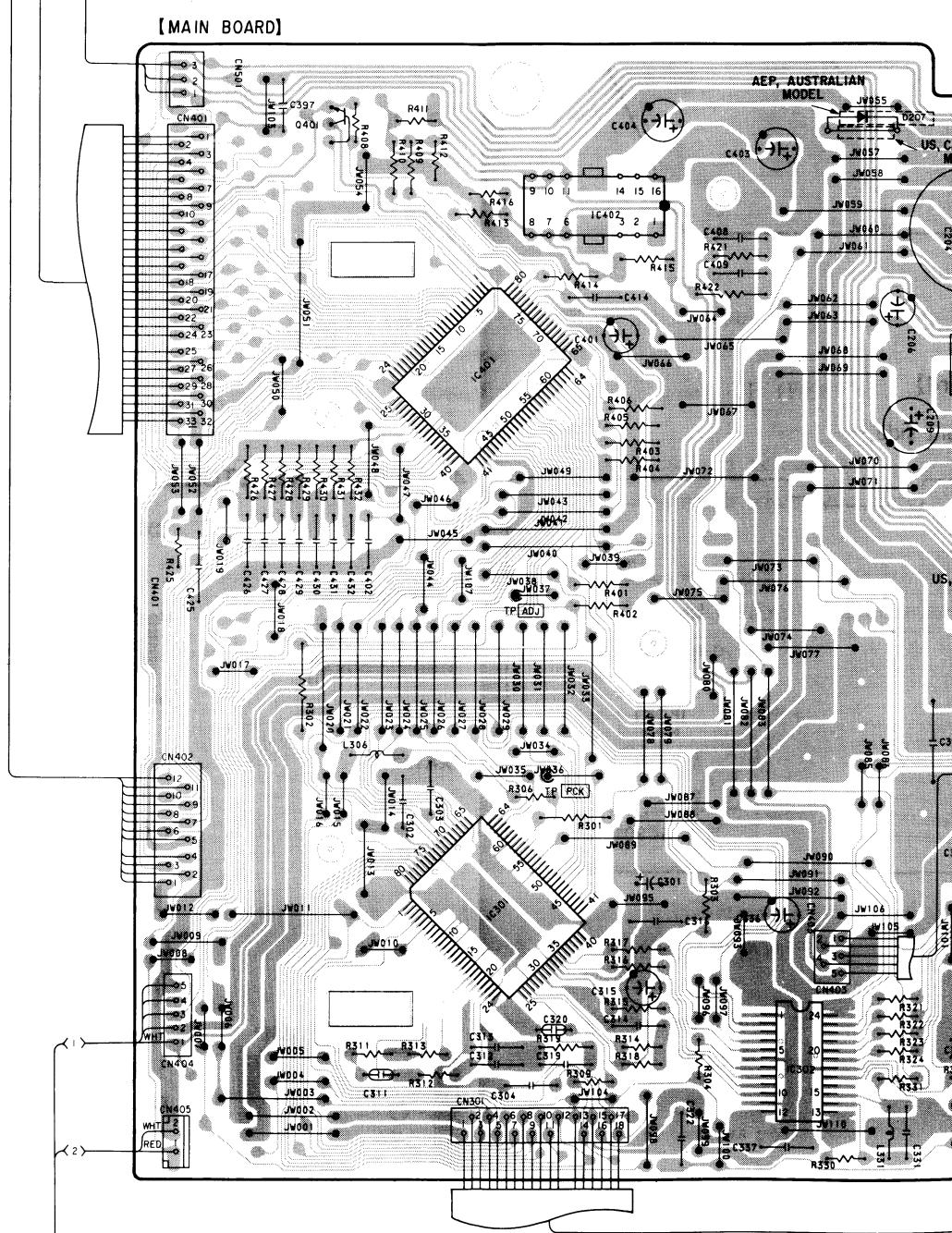
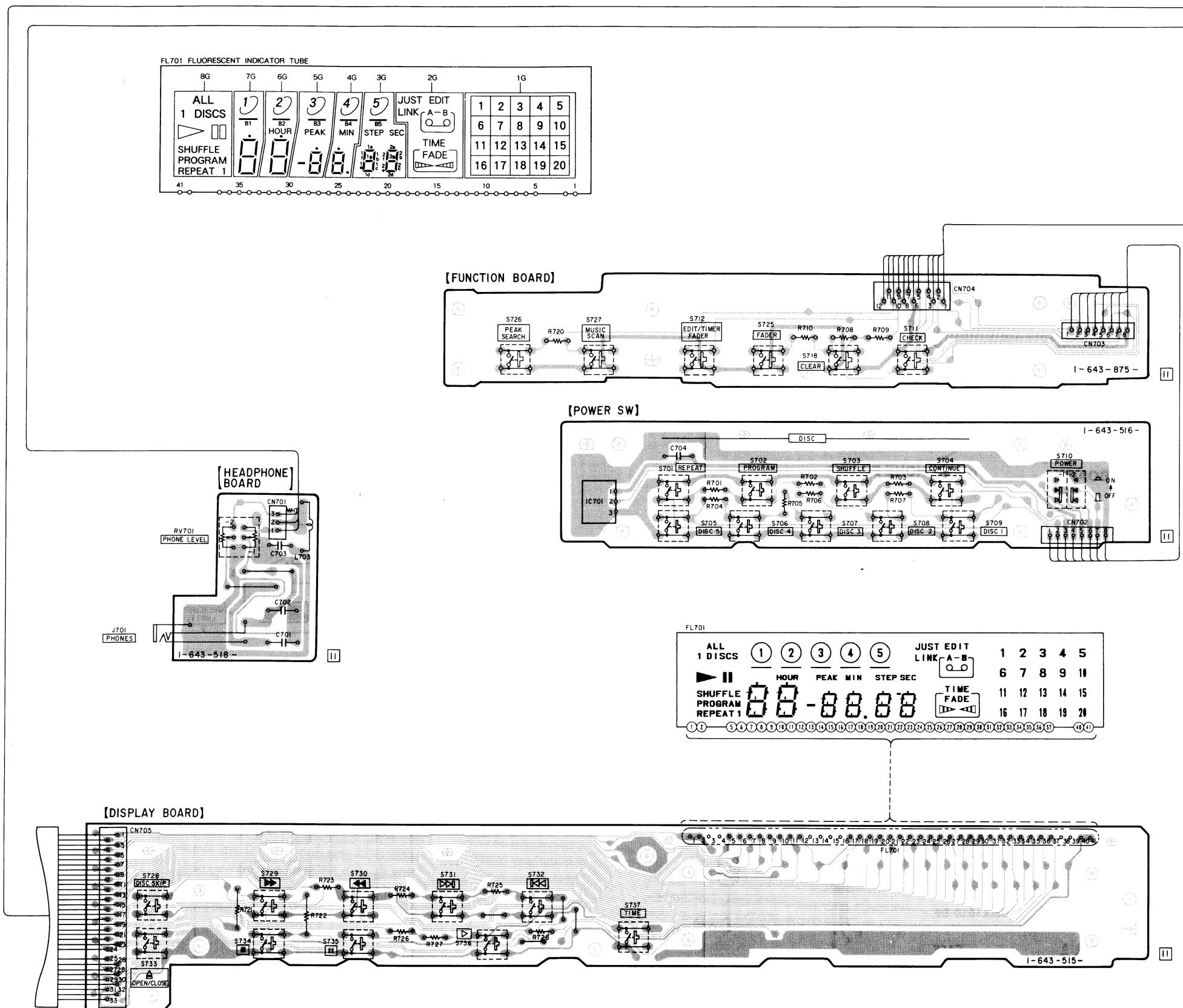
1

1

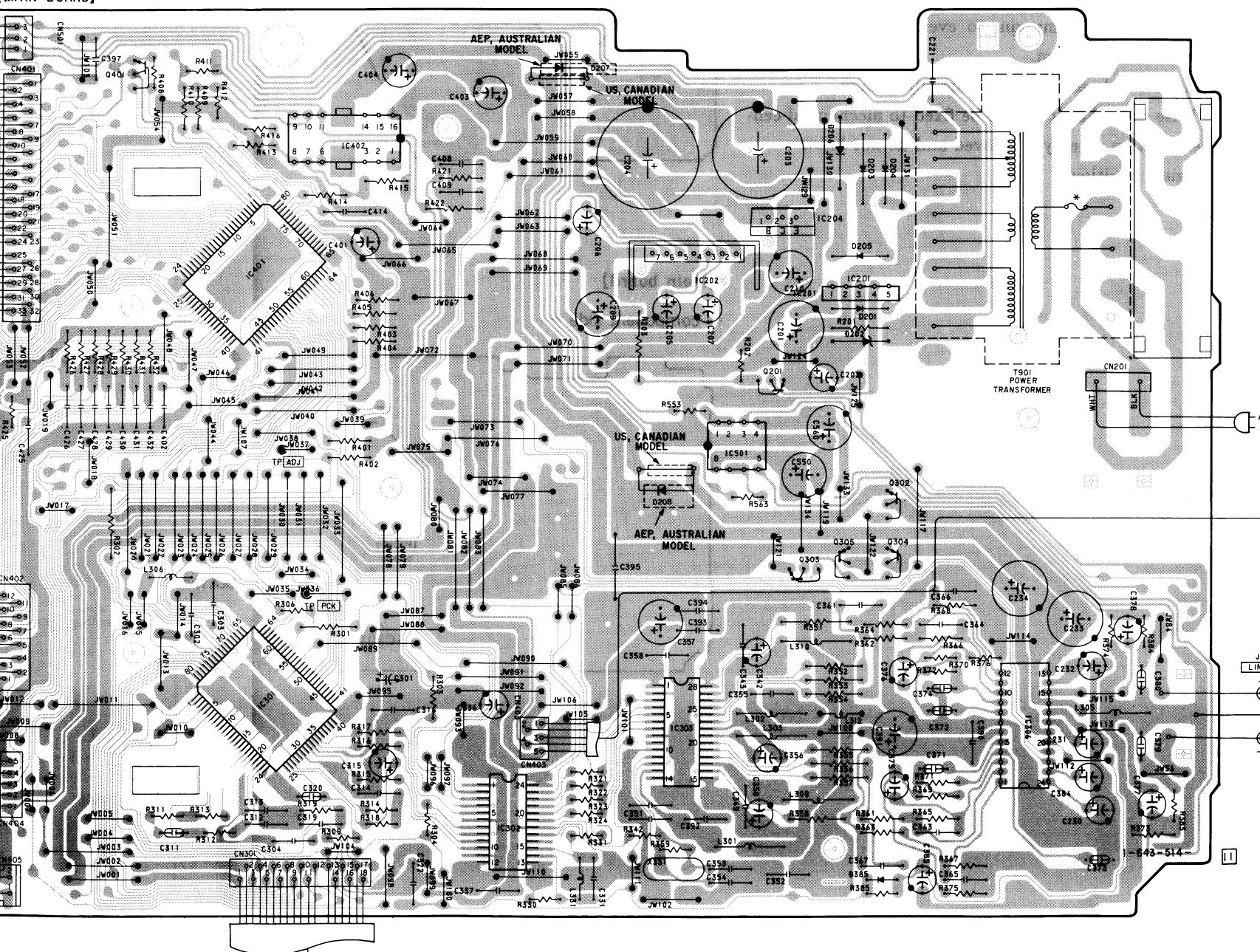
10

1

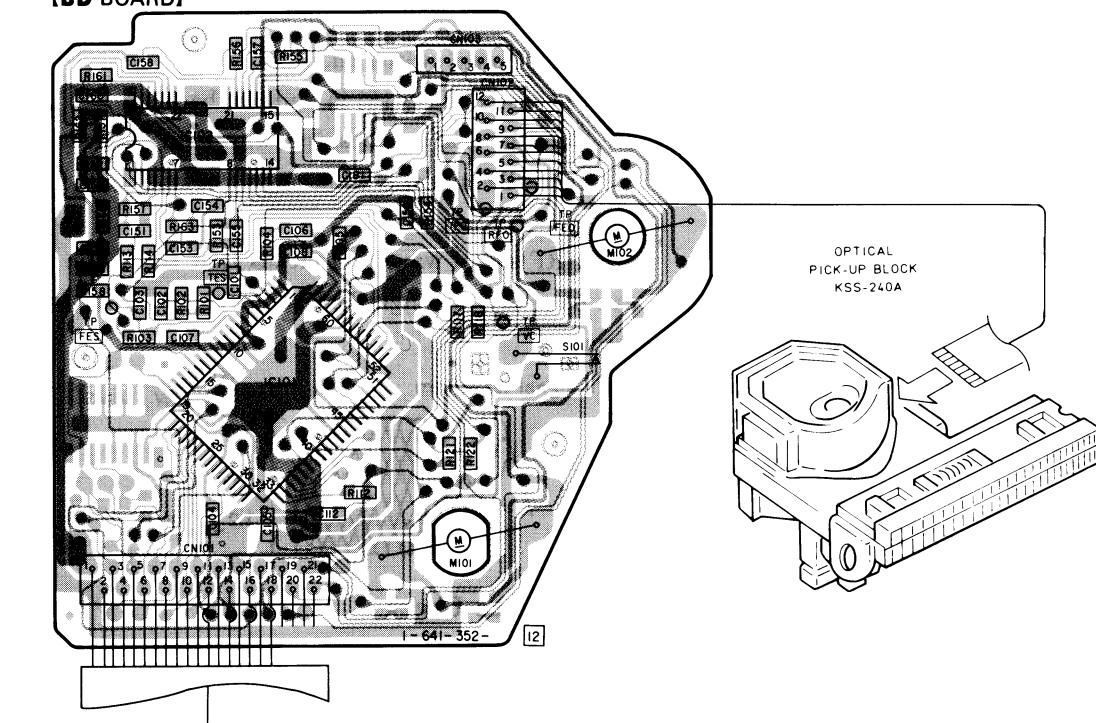
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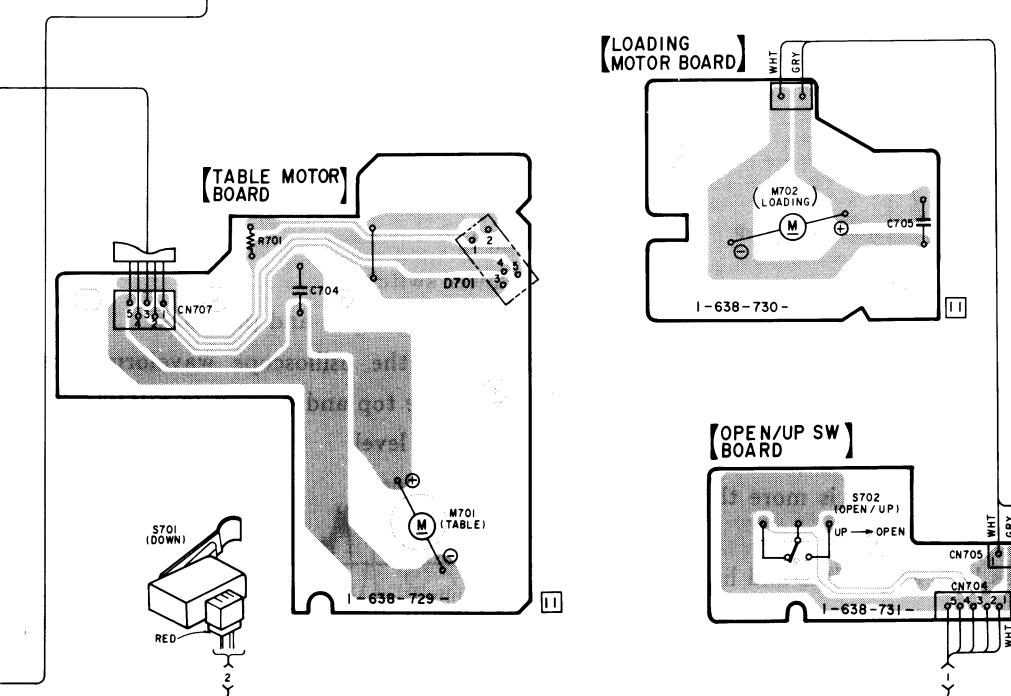
[MAIN BOARD]



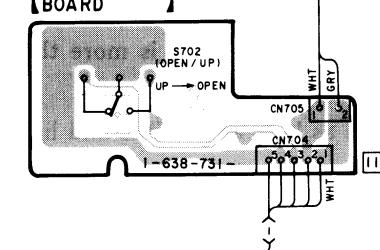
[BD BOARD]



[LOADING
MOTOR BOARD]



**[OPEN/UP SW
BOARD]**

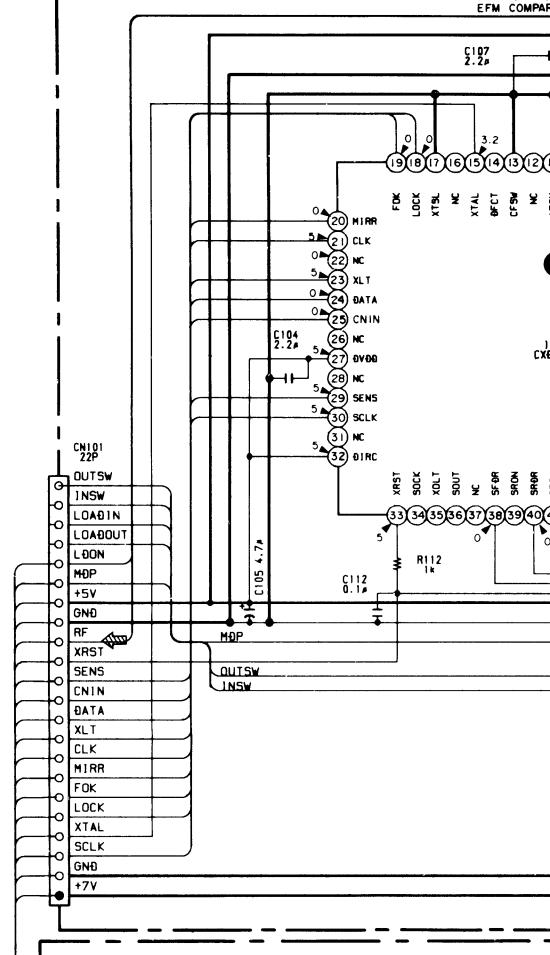


4-5. SCHEMATIC DIAGRAM

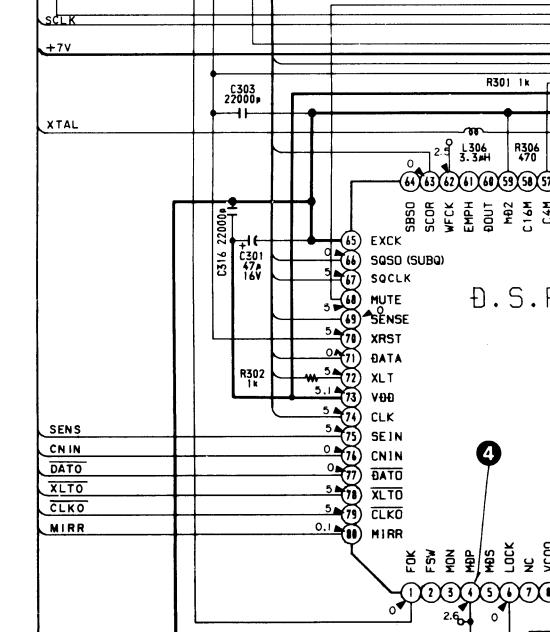
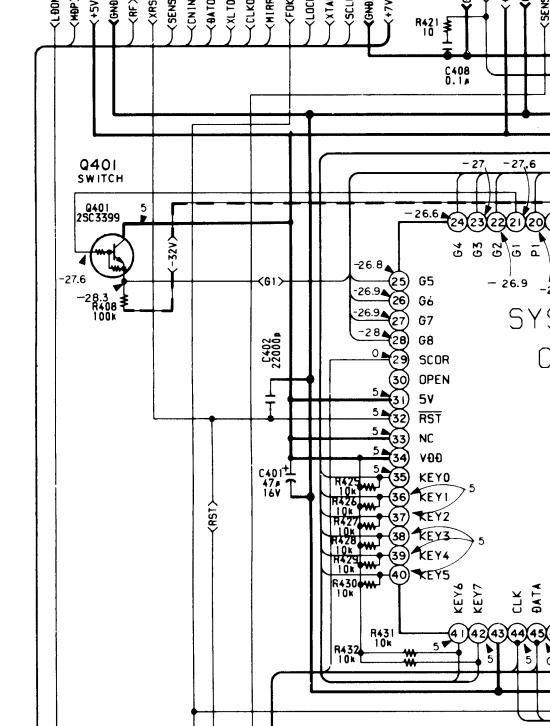
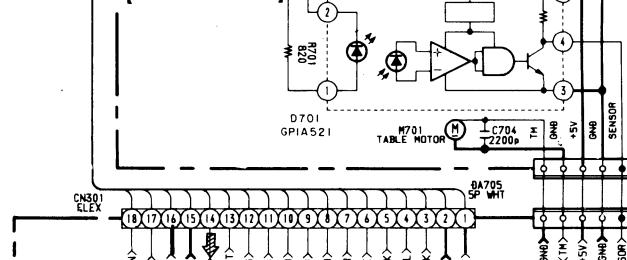
• Refer to page 9 for Semiconductor Lead Layout.

1 2 3 4

[BD BOARD]



[TABLE MOTOR BOARD]



[MAIN BOARD]

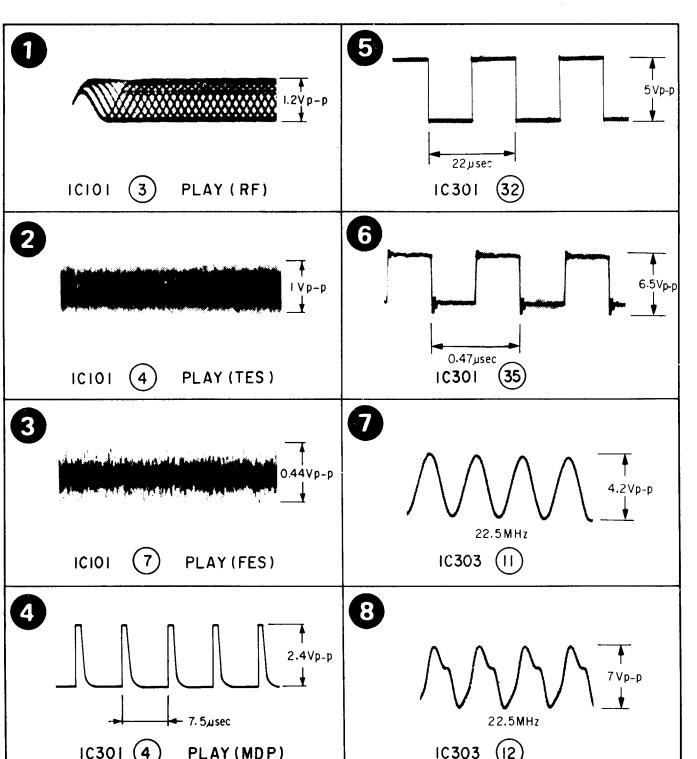
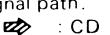
Note:

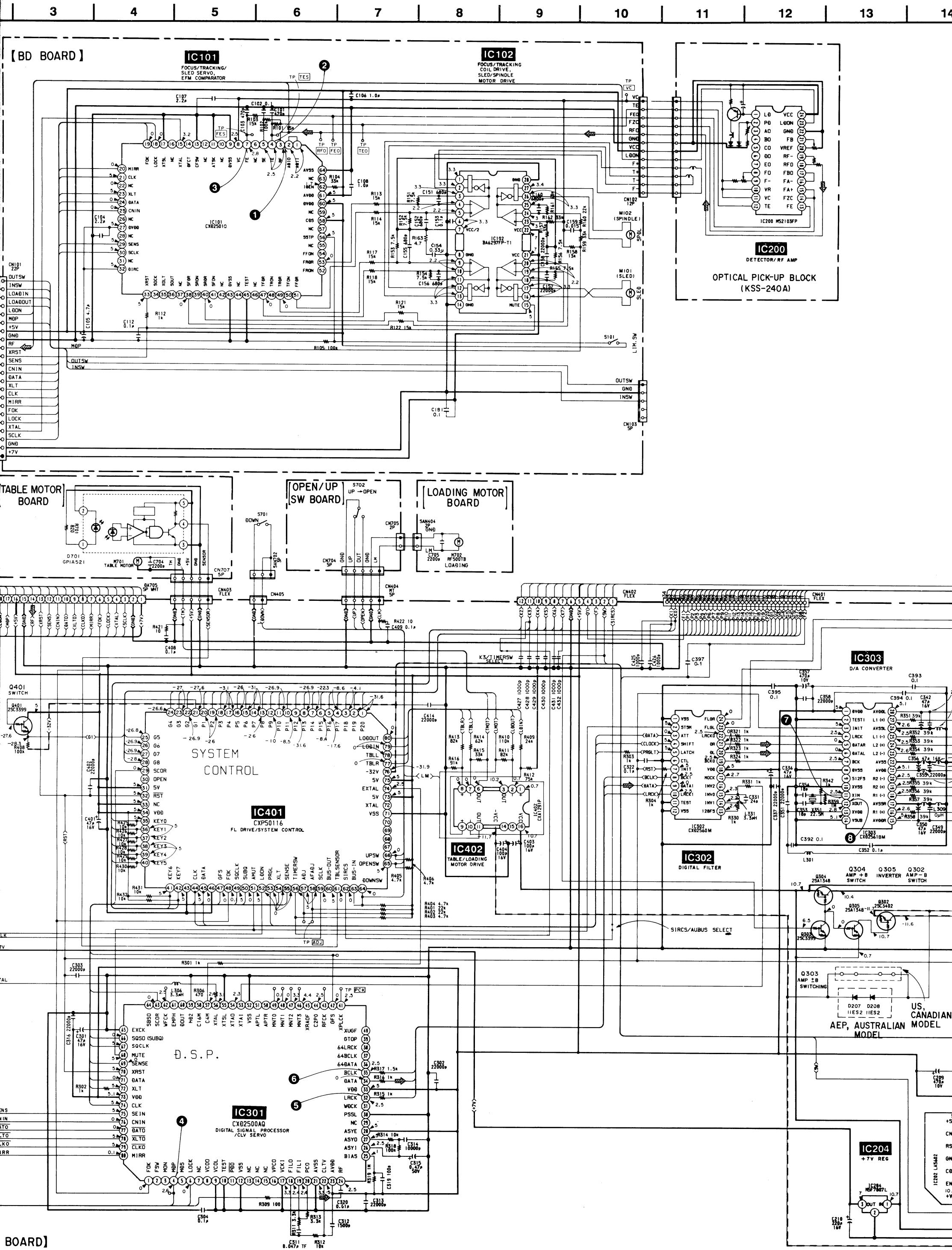
- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.

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

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

- : B+ Line
- - - : B- Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input Impedance $10\text{M}\Omega$) Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.





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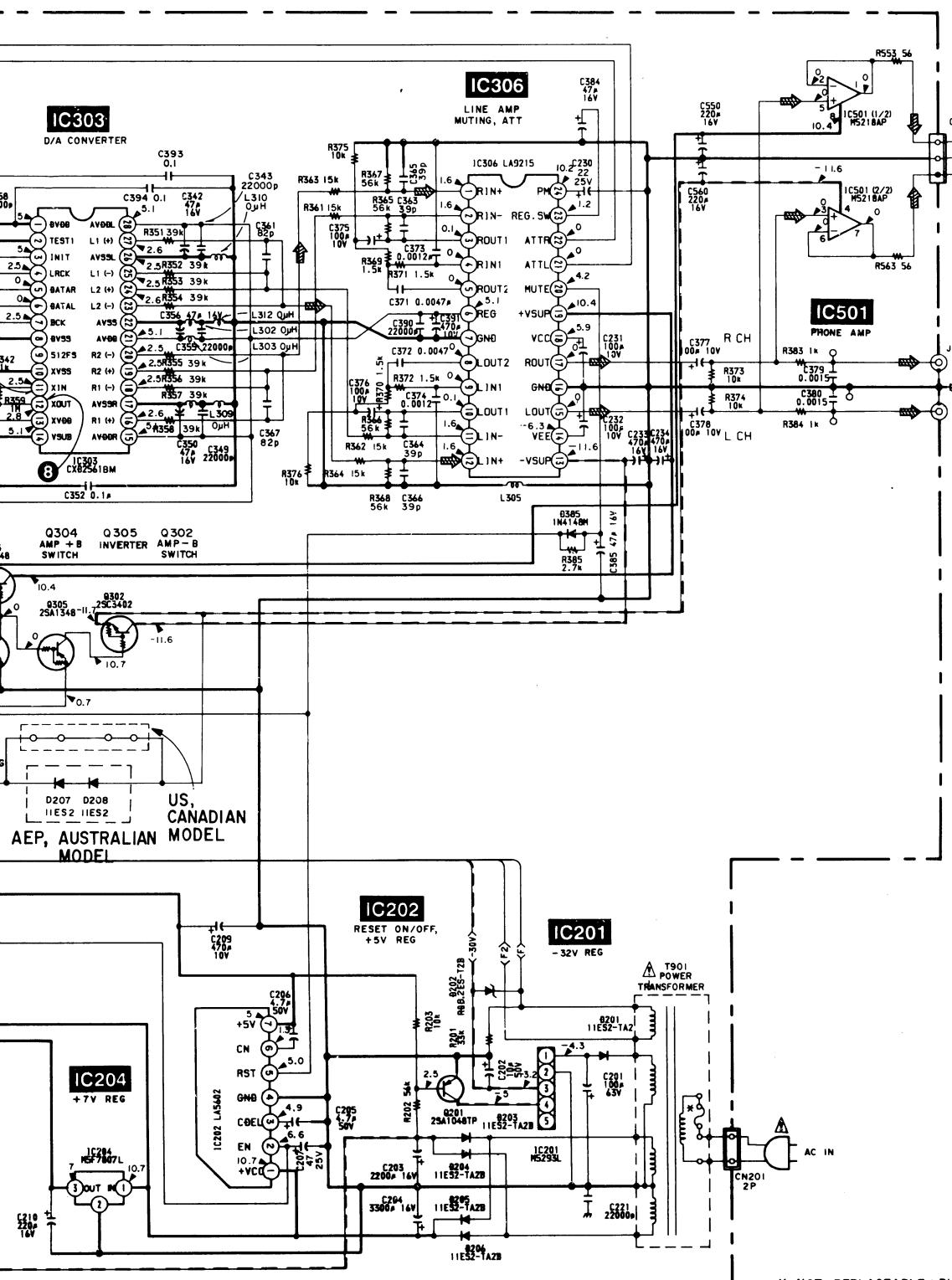
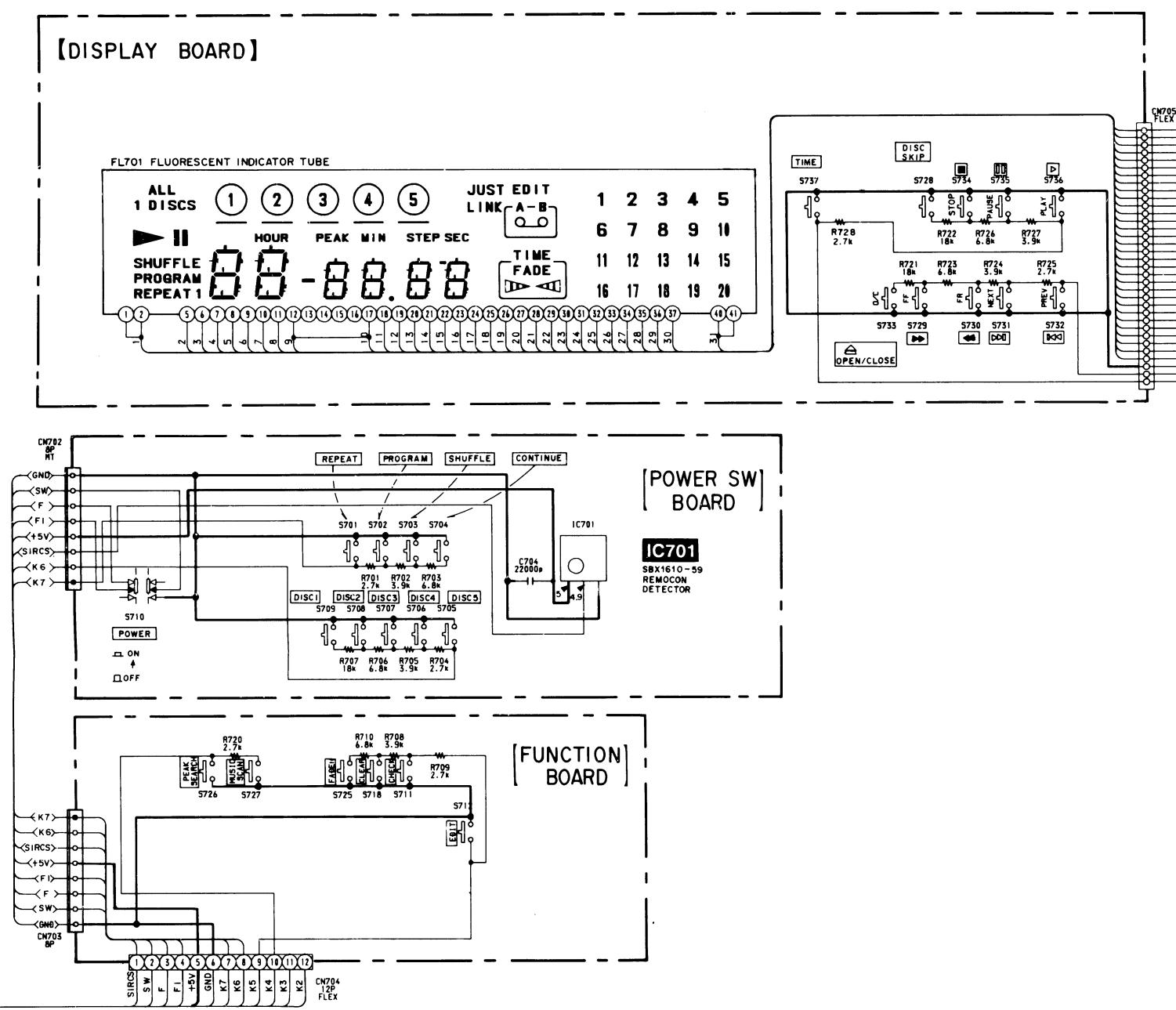
20

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[DISPLAY BOARD]



* NOT REPLACEABLE : BUILT IN TRANSFORMER

SECTION 5

EXPLODED VIEWS

NOTE:

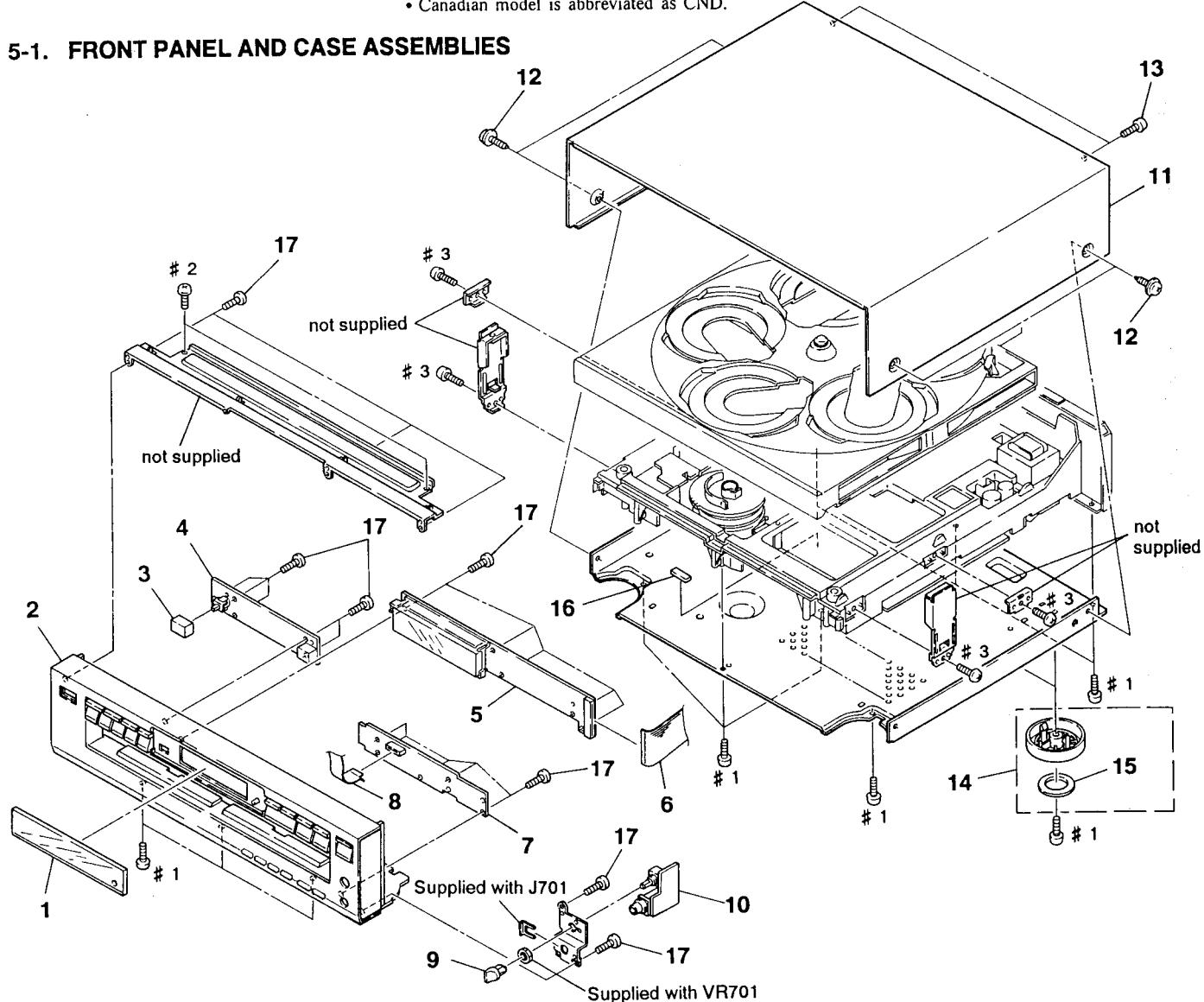
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:
KNOB, BALANCE (WHITE) . . . (RED)
 ↑
 Parts color Cabinet's color

- 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.
- Canadian model is abbreviated as CND.

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

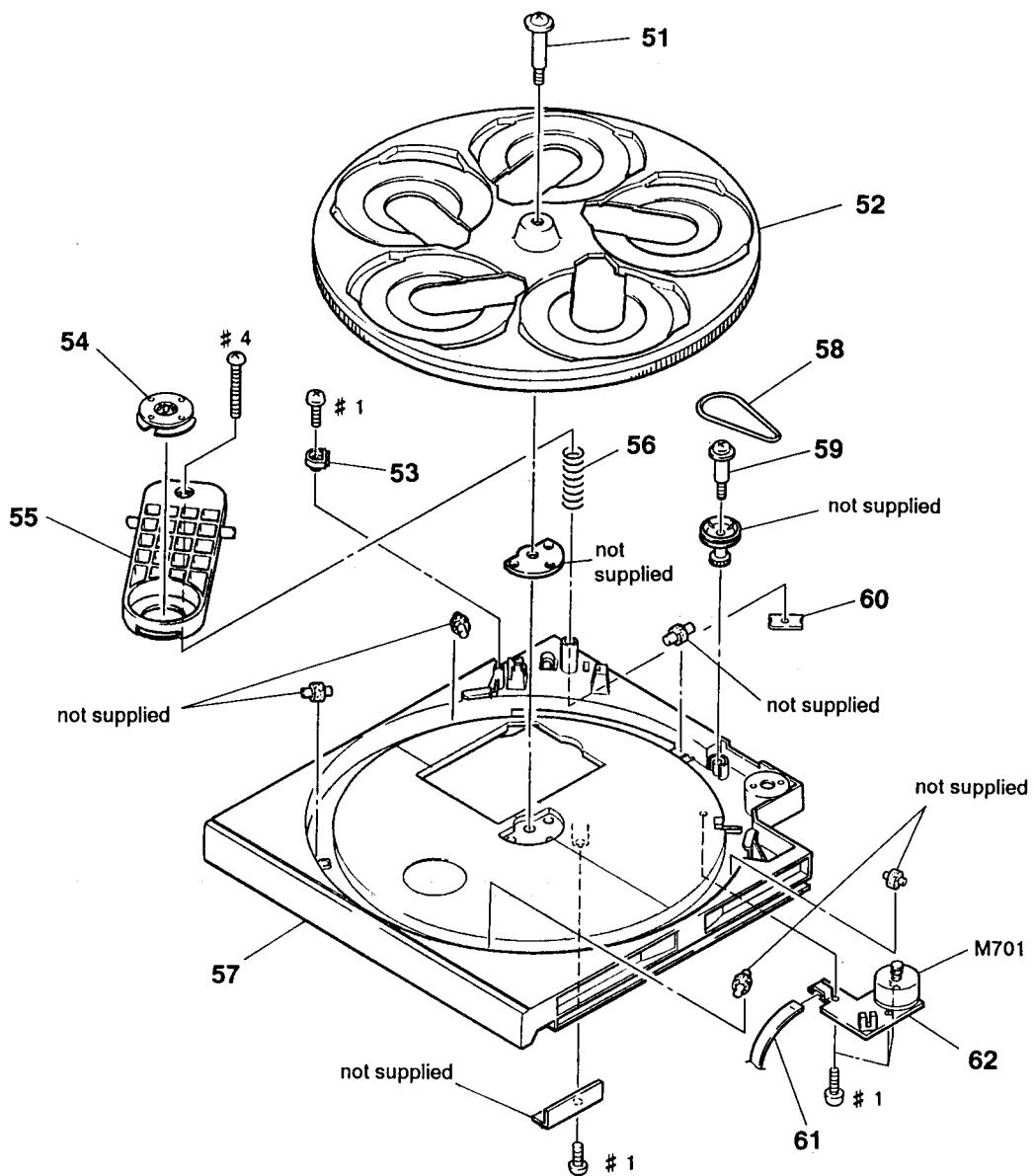
Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. FRONT PANEL AND CASE ASSEMBLIES



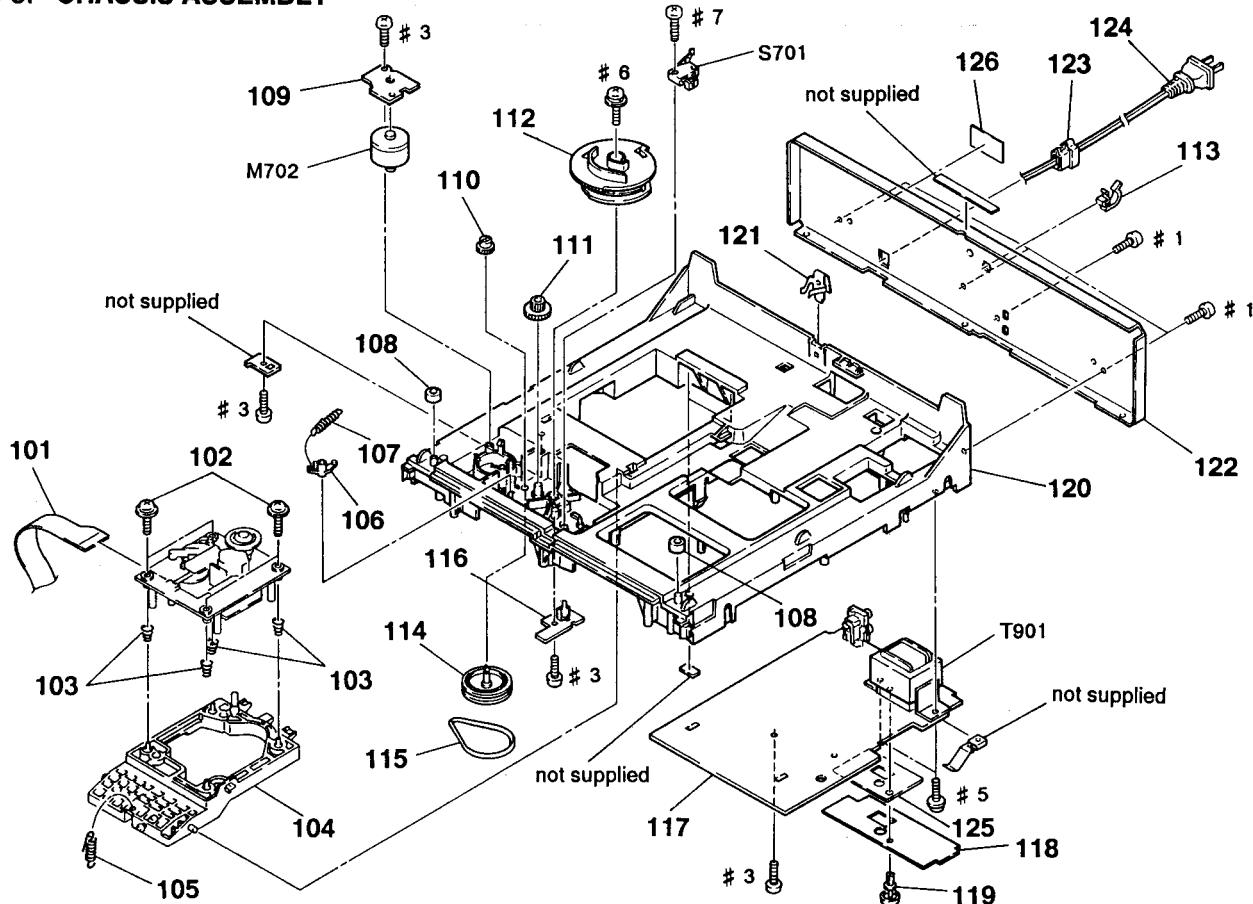
| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|---------------------------------------|--------|--------------|-----------------|-----------------------------|--------|
| 1 | 4-950-862-01 | PLATE (FL), INDICATION (C325) | | 8 | 1-690-860-11 | WIRE (FLAT TYPE) (12 CORE) | |
| 1 | 4-950-862-11 | PLATE (FL), INDICATION (C225) | | 9 | 4-950-189-01 | KNOB (A) (VOL) | |
| 2 | X-4942-616-1 | PANEL ASSY, FRONT (C325:US, Canadian) | * 10 | 1-643-518-11 | HEADPHONE BOARD | | |
| 2 | X-4942-617-1 | PANEL ASSY, FRONT (C225:US, Canadian) | * 11 | 4-944-153-01 | CASE | | |
| 2 | X-4942-620-1 | PANEL ASSY, FRONT (C325:Australian) | | 12 | 3-704-366-01 | SCREW (CASE) (M3X8) | |
| 2 | X-4942-618-1 | PANEL ASSY, FRONT (C225:AEP) | | 13 | 3-703-685-21 | SCREW (+BV 3X8) | |
| 3 | 4-922-921-01 | BUTTON (POWER) | | 14 | X-4942-197-1 | FOOT ASSY (US, Canadian) | |
| * 4 | 1-643-516-11 | POWER SW BOARD | | 14 | X-4942-198-1 | FOOT ASSY (AEP, Australian) | |
| * 5 | 1-643-515-11 | DISPLAY BOARD | | 15 | 4-923-836-11 | CUSHION | |
| 6 | 1-690-859-11 | WIRE (FLAT TYPE) (33 CORE) | | * 16 | 4-951-946-02 | SHEET | |
| * 7 | 1-643-875-11 | FUNCTION BOARD | | 17 | 4-951-620-01 | SCREW (2. 6X8), +BVTP | |

5-2. DISC TRAY ASSEMBLY



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|------------------------|--------|----------|--------------|----------------------------|--------|
| 51 | 4-926-384-01 | SCREW, STEP | | 58 | 4-926-399-01 | BELT | |
| * 52 | 4-926-383-01 | TABLE (B), DISK | | 59 | 4-923-597-01 | SCREW, STEP | |
| * 53 | 4-949-226-01 | PLATE, LOCK | | * 60 | 4-926-388-01 | BRACKET (ADJUSTMENT) | |
| * 54 | 1-452-538-11 | MAGNET | | 61 | 1-590-849-11 | WIRE, FLAT TYPE (5 CORE) | |
| * 55 | 4-930-506-02 | BRACKET (PRESS PULLEY) | | * 62 | 1-638-729-11 | TABLE MOTOR BOARD | |
| 56 | 4-926-395-01 | SPRING, COMPRESSION | | M701 | A-4604-585-A | MOTOR ASSY, ROTARY (TABLE) | |
| 57 | 4-950-866-01 | TABLE (A), DISK (C325) | | | | | |
| 57 | 4-950-866-11 | TABLE (A), DISK (C225) | | | | | |

5-3. CHASSIS ASSEMBLY

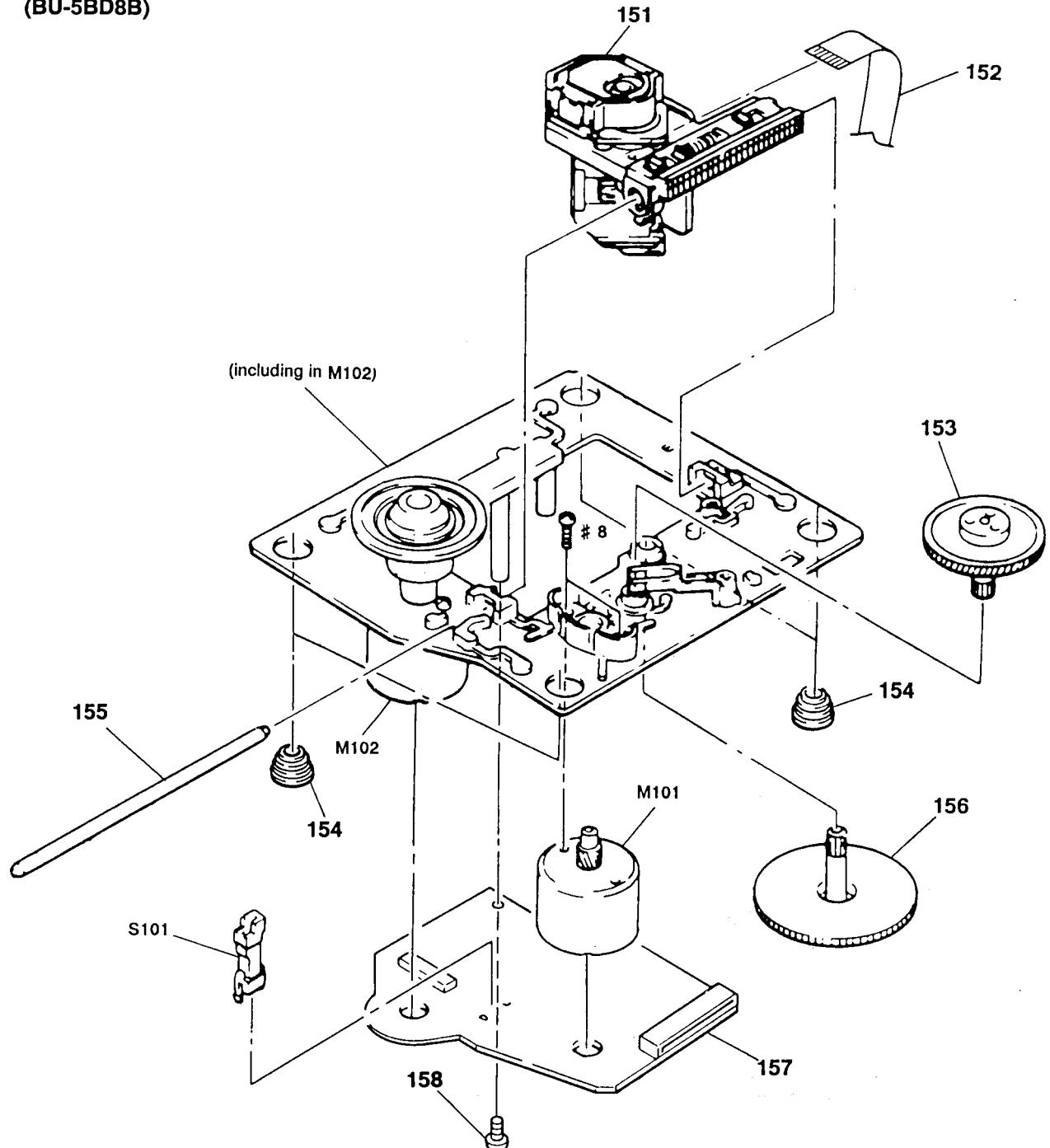


The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ 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 |
|----------|--------------|----------------------------------------|--------|----------|--------------|-------------------------------------------|--------|
| 101 | 1-694-003-11 | JAMPER, FILM (WITH TARMINAL) | | 119 | 3-531-576-11 | RIVET | |
| 102 | 4-933-134-01 | SCREW (+PTPWH M2.6X6) | | * 120 | 4-943-997-01 | CHASSIS | |
| 103 | 4-949-385-01 | SPRING (D), COIL | | * 121 | 4-943-996-01 | SPRING, LEAF | |
| * 104 | 4-934-373-01 | BRACKET (BU) | | * 122 | 4-949-994-71 | PANEL, BACK (C225:US, Canadian) | |
| 105 | 4-937-911-01 | SPRING, TENSION | | * 122 | 4-949-994-91 | PANEL, BACK (C225:AEP) | |
| 106 | 4-917-519-01 | LEVER, SET | | * 122 | 4-951-747-01 | PANEL, BACK (C325:US, Canadian) | |
| 107 | 4-924-412-01 | SPRING (B), TENSION | | * 122 | 4-951-747-21 | PANEL, BACK (C325:Australian) | |
| * 108 | 4-951-619-01 | CUSHION (A) | | * 123 | 3-703-244-00 | BUSHING (2104), CORD | |
| * 109 | 1-638-730-11 | LOADING MOTOR BOARD | | ▲124 | 1-574-358-31 | CORD, POWER (WITH CONNECTOR) (Australian) | |
| 110 | 4-934-375-01 | GEAR (LOADING B) | | ▲124 | 1-590-836-11 | CORD, POWER (US, Canadian) | |
| 111 | 4-934-381-01 | GEAR (LOADING C) | | ▲124 | 1-575-651-21 | CORD, POWER (AEP) | |
| 112 | 4-934-391-01 | GEAR (LOADING A) | | * 125 | 4-951-933-01 | SHEET, INSULATING (AEP, Australian) | |
| * 113 | 4-949-235-01 | HOOK | | * 126 | 4-941-548-01 | LABEL, CLASS 1 (AEP, Australian) | |
| 114 | X-4941-529-1 | PULLEY ASSY | | M702 | A-4604-834-A | MOTOR ASSY, LOADING | |
| 115 | 4-944-490-01 | BELT (TIMING) | | S701 | 1-572-713-11 | SWITCH, PUSH (WITH CONNECTOR) (DOWN) | |
| * 116 | 1-638-731-11 | OPEN/UP SW BOARD | | ▲T901 | 1-449-955-11 | TRANSFORMER, POWER (AEP, Australian) | |
| * 117 | A-4649-363-A | MAIN BOARD, COMPLETE (AEP, Australian) | | ▲T901 | 1-450-876-11 | TRANSFORMER, POWER (US, Canadian) | |
| * 117 | A-4649-365-A | MAIN BOARD, COMPLETE (US, Canadian) | | | | | |
| * 118 | 4-944-178-01 | Sheet (Insulating) | | | | | |

**5-4. OPTICAL PICK-UP BLOCK ASSEMBLY
(BU-5BD8B)**



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

Les composants identifiés par une marque \triangle 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 |
|----------|--------------|---------------------------|--------|----------|--------------|-------------------------------------|--------|
| △151 | 8-848-144-11 | DEVICE, OPTICAL KSS-240A | | * 157 | A-4649-199-A | BD BOARD, COMPLETE | |
| 152 | 1-575-001-11 | WIRE, FLAT TYPE (12 CORE) | | 158 | 4-951-620-01 | SCREW (2.6X8), +BVTP | |
| 153 | 4-917-567-01 | GEAR (M) | | M101 | X-4917-504-1 | MOTOR ASSY (SLED) | |
| 154 | 4-951-940-01 | INSULATOR (BU) | | M102 | X-4917-523-3 | BASE (OUTSERT) ASSY (SPINDLE MOTOR) | |
| 155 | 4-917-565-01 | SHAFT, SLED | | S101 | 1-572-085-11 | SWITCH, LEAF (LIMIT IN) | |
| 156 | 4-917-564-01 | GEAR (P), FLATNESS | | | | | |

SECTION 6

ELECTRICAL PARTS LIST

BD MAIN

NOTE.

The components identified by mark \triangle or dotted line with mark \triangle 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.

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
 - 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

MAIN

| Ref. No. | Part No. | Description | | Remark | Ref. No. | Part No. | Description | | Remark | | |
|----------|--------------|-------------|----------|--------|----------|----------|--------------|---------|----------|-----|-----|
| C206 | 1-126-163-11 | ELECT | 4.7uF | 20% | 50V | C366 | 1-162-213-31 | CERAMIC | 39PF | 5% | 50V |
| C207 | 1-124-910-11 | ELECT | 47uF | 20% | 50V | C367 | 1-162-280-31 | CERAMIC | 82PF | 10% | 50V |
| C209 | 1-124-997-11 | ELECT | 470uF | 20% | 10V | C371 | 1-130-479-00 | MYLAR | 0.0047uF | 5% | 50V |
| C210 | 1-126-024-11 | ELECT | 220uF | 20% | 16V | C372 | 1-130-479-00 | MYLAR | 0.0047uF | 5% | 50V |
| C221 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | C373 | 1-130-472-00 | MYLAR | 0.0012uF | 5% | 50V |
| C230 | 1-126-049-11 | ELECT | 22uF | 20% | 25V | C374 | 1-130-472-00 | MYLAR | 0.0012uF | 5% | 50V |
| C231 | 1-124-994-11 | ELECT | 100uF | 20% | 10V | C375 | 1-124-994-11 | ELECT | 100uF | 20% | 10V |
| C232 | 1-124-994-11 | ELECT | 100uF | 20% | 10V | C376 | 1-124-994-11 | ELECT | 100uF | 20% | 10V |
| C233 | 1-126-012-11 | ELECT | 470uF | 20% | 16V | C377 | 1-124-994-11 | ELECT | 100uF | 20% | 10V |
| C234 | 1-126-012-11 | ELECT | 470uF | 20% | 16V | C378 | 1-124-994-11 | ELECT | 100uF | 20% | 10V |
| C301 | 1-126-022-11 | ELECT | 47uF | 20% | 16V | C379 | 1-130-473-00 | MYLAR | 0.0015uF | 5% | 50V |
| C302 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | C380 | 1-130-473-00 | MYLAR | 0.0015uF | 5% | 50V |
| C303 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | C384 | 1-126-022-11 | ELECT | 47uF | 20% | 16V |
| C304 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V | C385 | 1-126-022-11 | ELECT | 47uF | 20% | 16V |
| C311 | 1-136-161-00 | FILM | 0.047uF | 5% | 50V | C390 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V |
| C312 | 1-161-374-11 | CERAMIC | 0.0015uF | 20% | 50V | C391 | 1-124-997-11 | ELECT | 470uF | 20% | 10V |
| C313 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | C392 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C314 | 1-162-306-11 | CERAMIC | 0.01uF | 20% | 16V | C393 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C315 | 1-126-300-11 | ELECT | 0.47uF | 20% | 50V | C394 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C316 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | C395 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C319 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V | C401 | 1-126-022-11 | ELECT | 47uF | 20% | 16V |
| C320 | 1-130-483-00 | MYLAR | 0.01uF | 5% | 50V | C402 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V |
| C322 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V | C403 | 1-126-023-11 | ELECT | 100uF | 20% | 16V |
| C331 | 1-162-208-31 | CERAMIC | 24PF | 5% | 50V | C404 | 1-126-023-11 | ELECT | 100uF | 20% | 16V |
| C336 | 1-126-022-11 | ELECT | 47uF | 20% | 16V | C408 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C337 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | C409 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V |
| C342 | 1-126-022-11 | ELECT | 47uF | 20% | 16V | C414 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V |
| C343 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | C425 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C349 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | C426 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C350 | 1-126-022-11 | ELECT | 47uF | 20% | 16V | C427 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C351 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | C428 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C352 | 1-164-159-11 | CERAMIC | 0.1uF | | 50V | C429 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C353 | 1-162-205-31 | CERAMIC | 18PF | 5% | 50V | C430 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C354 | 1-162-205-31 | CERAMIC | 18PF | 5% | 50V | C431 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C355 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | C432 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C356 | 1-126-022-11 | ELECT | 47uF | 20% | 16V | C550 | 1-126-024-11 | ELECT | 220uF | 20% | 16V |
| C357 | 1-124-997-11 | ELECT | 470uF | 20% | 10V | C560 | 1-126-024-11 | ELECT | 220uF | 20% | 16V |
| C358 | 1-161-494-00 | CERAMIC | 0.022uF | | 25V | | | | | | |
| C361 | 1-162-280-31 | CERAMIC | 82PF | 10% | 50V | | | | | | |
| C363 | 1-162-213-31 | CERAMIC | 39PF | 5% | 50V | | | | | | |
| C364 | 1-162-213-31 | CERAMIC | 39PF | 5% | 50V | | | | | | |
| C365 | 1-162-213-31 | CERAMIC | 39PF | 5% | 50V | | | | | | |

* CN201 1-573-047-11 PIN, CONNECTOR (PC BOARD) 2P
 * CN301 1-691-895-11 SOCKET, CONNECTOR (L TYPE) 18P
 * CN401 1-691-901-11 SOCKET, CONNECTOR (L TYPE) 33P

MAIN

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|--------------------------------|----------------------------------|----------|--------------|----------------|--------------|
| * CN402 | 1-691-891-11 | SOCKET, CONNECTOR (L TYPE) 12P | | | | < TRANSISTOR > | |
| * CN403 | 1-568-824-11 | SOCKET, CONNECTOR 5P | | Q201 | 8-729-119-76 | TRANSISTOR | 2SA1175-HFE |
| * CN404 | 1-568-943-11 | PIN, CONNECTOR 5P | | Q302 | 8-729-900-80 | TRANSISTOR | DTC114ES |
| * CN501 | 1-568-941-11 | PIN, CONNECTOR 3P | | Q303 | 8-729-900-89 | TRANSISTOR | DTC144ES |
| | | | < DIODE > | Q304 | 8-729-900-61 | TRANSISTOR | DTA114ES |
| D201 | 8-719-200-82 | DIODE | 11ES2 | Q305 | 8-729-900-61 | TRANSISTOR | DTA114ES |
| D202 | 8-719-110-08 | DIODE | RD8.2ES-B2 | 0401 | 8-729-900-89 | TRANSISTOR | DTC144ES |
| D203 | 8-719-200-82 | DIODE | 11ES2 | | | | < RESISTOR > |
| D204 | 8-719-200-82 | DIODE | 11ES2 | R201 | 1-249-435-11 | CARBON | 33K 5% 1/4W |
| D205 | 8-719-200-82 | DIODE | 11ES2 | R202 | 1-249-438-11 | CARBON | 56K 5% 1/4W |
| D206 | 8-719-200-82 | DIODE | 11ES2 | R203 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| D207 | 8-719-200-82 | DIODE | 11ES2(C225:AEP, C325:Australian) | R301 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| D208 | 8-719-200-82 | DIODE | 11ES2(C225:AEP, C325:Australian) | R302 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| D385 | 8-719-987-63 | DIODE | 1N4148M | R303 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| | | | < IC > | R304 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| IC201 | 8-759-633-42 | IC | M5293L | R306 | 1-249-413-11 | CARBON | 470 5% 1/4W |
| IC202 | 8-759-061-65 | IC | LA5602 | R309 | 1-249-405-11 | CARBON | 100 5% 1/4W |
| IC204 | 8-759-604-86 | IC | M5F7807 | R311 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W |
| IC301 | 8-752-337-26 | IC | CXD2500AQ | R312 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| IC302 | 8-752-342-65 | IC | CXD2560M | R313 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W |
| IC303 | 8-752-351-19 | IC | CXD2561BM | R314 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| IC306 | 8-759-061-66 | IC | LA9215 | R315 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| IC401 | 8-752-834-31 | IC | CXP50116-267Q | R316 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| IC402 | 8-759-821-32 | IC | CXA1291P | R317 | 1-249-419-11 | CARBON | 1.5K 5% 1/4W |
| IC501 | 8-759-634-51 | IC | M5218AP | R318 | 1-249-441-11 | CARBON | 100K 5% 1/4W |
| | | | < JACK > | R319 | 1-247-903-00 | CARBON | 1M 5% 1/4W |
| J501 | 1-569-442-11 | JACK, PIN 2P (LINE OUT L/R) | | R321 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| | | | < COIL > | R322 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| L301 | 1-412-473-21 | INDUCTOR | 0uH | R323 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| L302 | 1-412-473-21 | INDUCTOR | 0uH | R324 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| L303 | 1-412-473-21 | INDUCTOR | 0uH | R330 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| L305 | 1-412-473-21 | INDUCTOR | 0uH | R331 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| L306 | 1-412-297-11 | INDUCTOR | 3.3uH | R342 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| L309 | 1-412-473-21 | INDUCTOR | 0uH | R351 | 1-249-436-11 | CARBON | 39K 5% 1/4W |
| L310 | 1-412-473-21 | INDUCTOR | 0uH | R352 | 1-249-436-11 | CARBON | 39K 5% 1/4W |
| L312 | 1-412-473-21 | INDUCTOR | 0uH | R353 | 1-249-436-11 | CARBON | 39K 5% 1/4W |
| L331 | 1-412-297-11 | INDUCTOR | 3.3uH | R354 | 1-249-436-11 | CARBON | 39K 5% 1/4W |
| | | | | R355 | 1-249-436-11 | CARBON | 39K 5% 1/4W |
| | | | | R356 | 1-249-436-11 | CARBON | 39K 5% 1/4W |
| | | | | R357 | 1-249-436-11 | CARBON | 39K 5% 1/4W |

| | | | | |
|-------------|----------------|-----------------|------------------|-----------------|
| MAIN | DISPLAY | POWER SW | HEADPHONE | FUNCTION |
|-------------|----------------|-----------------|------------------|-----------------|

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------|--------------|----------|--------------|--------------------------------|---------------|
| R358 | 1-249-436-11 | CARBON | 39K 5% 1/4W | R429 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R359 | 1-247-903-00 | CARBON | 1M 5% 1/4W | R430 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R361 | 1-249-431-11 | CARBON | 15K 5% 1/4W | R431 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R362 | 1-249-431-11 | CARBON | 15K 5% 1/4W | R432 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R363 | 1-249-431-11 | CARBON | 15K 5% 1/4W | R553 | 1-249-402-11 | CARBON | 56 5% 1/4W |
| R364 | 1-249-431-11 | CARBON | 15K 5% 1/4W | R563 | 1-249-402-11 | CARBON | 56 5% 1/4W |
| R365 | 1-249-438-11 | CARBON | 56K 5% 1/4W | | | | |
| R366 | 1-249-438-11 | CARBON | 56K 5% 1/4W | | | | ⟨ CRYSTAL ⟩ |
| R367 | 1-249-438-11 | CARBON | 56K 5% 1/4W | X351 | 1-579-314-11 | VIBRATOR, CRYSTAL (22.5MHz) | |
| R368 | 1-249-438-11 | CARBON | 56K 5% 1/4W | | | | ***** |
| R369 | 1-249-419-11 | CARBON | 1.5K 5% 1/4W | | | | ***** |
| R370 | 1-249-419-11 | CARBON | 1.5K 5% 1/4W | | | | ***** |
| R371 | 1-249-419-11 | CARBON | 1.5K 5% 1/4W | * | 1-643-515-11 | DISPLAY BOARD | |
| | | | | | | | ***** |
| R372 | 1-249-419-11 | CARBON | 1.5K 5% 1/4W | * | 1-643-516-11 | POWER SW BOARD | |
| R373 | 1-249-429-11 | CARBON | 10K 5% 1/4W | | | | ***** |
| R374 | 1-249-429-11 | CARBON | 10K 5% 1/4W | * | 1-643-518-11 | HEADPHONE BOARD | |
| R375 | 1-249-429-11 | CARBON | 10K 5% 1/4W | | | | ***** |
| R376 | 1-249-429-11 | CARBON | 10K 5% 1/4W | * | 1-643-875-11 | FUNCTION BOARD | |
| | | | | | | | ***** |
| R383 | 1-249-417-11 | CARBON | 1K 5% 1/4W | | | | |
| R384 | 1-249-417-11 | CARBON | 1K 5% 1/4W | * | 1-690-880-31 | READ (WITH CONNECTOR) | |
| R385 | 1-249-422-11 | CARBON | 2.7K 5% 1/4W | * | 4-950-864-01 | HOLDER (FL) | |
| R401 | 1-249-433-11 | CARBON | 22K 5% 1/4W | | | | |
| R402 | 1-249-433-11 | CARBON | 22K 5% 1/4W | | | | |
| | | | | | | | ⟨ CAPACITOR ⟩ |
| R403 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | C701 | 1-162-291-31 | CERAMIC | 560PF 10% 50V |
| R404 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | C702 | 1-162-291-31 | CERAMIC | 560PF 10% 50V |
| R405 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | C703 | 1-164-159-11 | CERAMIC | 0.1uF 50V |
| R406 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | C704 | 1-161-494-00 | CERAMIC | 0.022uF 25V |
| R408 | 1-249-441-11 | CARBON | 100K 5% 1/4W | | | | |
| | | | | | | | ⟨ CONNECTOR ⟩ |
| R409 | 1-247-864-11 | CARBON | 24K 5% 1/4W | * CN704 | 1-691-890-11 | SOCKET, CONNECTOR (S TYPE) 12P | |
| R410 | 1-247-880-11 | CARBON | 110K 5% 1/4W | * CN705 | 1-691-901-11 | SOCKET, CONNECTOR (L TYPE) 33P | |
| R411 | 1-249-440-11 | CARBON | 82K 5% 1/4W | | | | |
| R412 | 1-247-876-11 | CARBON | 75K 5% 1/4W | | | | ⟨ FILTER ⟩ |
| R413 | 1-249-440-11 | CARBON | 82K 5% 1/4W | FL701 | 1-519-721-11 | INDICATOR TUBE, FLUORESCENT | |
| | | | | | | | ⟨ IC ⟩ |
| R414 | 1-247-874-11 | CARBON | 62K 5% 1/4W | IC701 | 8-741-100-48 | IC SBX1610-59 | |
| R415 | 1-249-435-11 | CARBON | 33K 5% 1/4W | | | | ⟨ JACK ⟩ |
| R416 | 1-247-878-00 | CARBON | 91K 5% 1/4W | J701 | 1-568-519-41 | JACK, LARGE TYPE (PHONES) | |
| R421 | 1-249-393-11 | CARBON | 10 5% 1/4W | | | | |
| R422 | 1-249-393-11 | CARBON | 10 5% 1/4W | | | | |
| R425 | 1-249-429-11 | CARBON | 10K 5% 1/4W | | | | |
| R426 | 1-249-429-11 | CARBON | 10K 5% 1/4W | | | | |
| R427 | 1-249-429-11 | CARBON | 10K 5% 1/4W | | | | |
| R428 | 1-249-429-11 | CARBON | 10K 5% 1/4W | | | | |

| | | | |
|--------------------|----------------------|-------------------|-----------------|
| DISPLAY | POWER SW | HEADPHONE | FUNCTION |
| TABLE MOTOR | LOADING MOTOR | OPEN/UP SW | |

| <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> | <u>Remark</u> | <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> | <u>Remark</u> |
|-----------------|-----------------|-----------------------------------|---------------|-----------------|-----------------|--------------------------------------|------------------|
| | | < COIL > | | S728 | 1-554-303-21 | SWITCH, TACTILE (DISC SKIP) | |
| L703 | 1-412-473-21 | INDUCTOR | 0uH | S729 | 1-554-303-21 | SWITCH, TACTILE (▶▶) | |
| | | < RESISTOR > | | S730 | 1-554-303-21 | SWITCH, TACTILE (◀◀) | |
| R701 | 1-249-422-11 | CARBON | 2.7K 5% 1/4W | S731 | 1-554-303-21 | SWITCH, TACTILE (▷▷) | |
| R702 | 1-249-424-11 | CARBON | 3.9K 5% 1/4W | S732 | 1-554-303-21 | SWITCH, TACTILE (◀◀) | |
| R703 | 1-249-427-11 | CARBON | 6.8K 5% 1/4W | S733 | 1-554-303-21 | SWITCH, TACTILE (OPEN/CLOSE △) | |
| R704 | 1-249-422-11 | CARBON | 2.7K 5% 1/4W | S734 | 1-554-303-21 | SWITCH, TACTILE (■) | |
| R705 | 1-249-424-11 | CARBON | 3.9K 5% 1/4W | S735 | 1-554-303-21 | SWITCH, TACTILE (■■) | |
| R706 | 1-249-427-11 | CARBON | 6.8K 5% 1/4W | S736 | 1-554-303-21 | SWITCH, TACTILE (▷) | |
| R707 | 1-249-432-11 | CARBON | 18K 5% 1/4W | S737 | 1-554-303-21 | SWITCH, TACTILE (TIME) | |
| R708 | 1-249-424-11 | CARBON | 3.9K 5% 1/4W | | | < VARIABLE RESISTOR > | |
| R709 | 1-249-422-11 | CARBON | 2.7K 5% 1/4W | VR701 | 1-241-506-11 | RES, VAR, CARBON 1K/1K (PHONE LEVEL) | |
| R710 | 1-249-427-11 | CARBON | 6.8K 5% 1/4W | | | PC BOARD ASSY | |
| R720 | 1-249-422-11 | CARBON | 2.7K 5% 1/4W | | | ***** | |
| R721 | 1-249-432-11 | CARBON | 18K 5% 1/4W | * | 1-638-729-11 | TABLE MOTOR BOARD | |
| R722 | 1-249-432-11 | CARBON | 18K 5% 1/4W | | | ***** | |
| R723 | 1-249-427-11 | CARBON | 6.8K 5% 1/4W | * | 1-638-730-11 | LOADING MOTOR BOARD | |
| R724 | 1-249-424-11 | CARBON | 3.9K 5% 1/4W | | | ***** | |
| R725 | 1-249-422-11 | CARBON | 2.7K 5% 1/4W | * | 1-638-731-11 | OPEN/UP SW BOARD | |
| R726 | 1-249-427-11 | CARBON | 6.8K 5% 1/4W | | | ***** | |
| R727 | 1-249-424-11 | CARBON | 3.9K 5% 1/4W | | | ***** | |
| R728 | 1-249-422-11 | CARBON | 2.7K 5% 1/4W | | | < CAPACITOR > | |
| | | < SWITCH > | | C704 | 1-161-375-00 | CERAMIC | 0.0022uF 20% 50V |
| S701 | 1-554-303-21 | SWITCH, TACTILE (REPEAT) | | C705 | 1-161-375-00 | CERAMIC | 0.0022uF 20% 50V |
| S702 | 1-554-303-21 | SWITCH, TACTILE (PROGRAM) | | | | < CONNECTOR > | |
| S703 | 1-554-303-21 | SWITCH, TACTILE (SHUFFLE) | | * CN705 | 1-573-383-11 | PIN, CONNECTOR (PC BOARD) 2P | |
| S704 | 1-554-303-21 | SWITCH, TACTILE (CONTINUE) | | * CN707 | 1-573-044-11 | SOCKET, CONNECTOR 5P | |
| S705 | 1-554-303-21 | SWITCH, TACTILE (DISC 5) | | | | < DIODE > | |
| S706 | 1-554-303-21 | SWITCH, TACTILE (DISC 4) | | D701 | 8-719-970-19 | DIODE GP-1A521 | |
| S707 | 1-554-303-21 | SWITCH, TACTILE (DISC 3) | | | | < RESISTOR > | |
| S708 | 1-554-303-21 | SWITCH, TACTILE (DISC 2) | | R701 | 1-249-416-11 | CARBON | 820 5% 1/4W |
| S709 | 1-554-303-21 | SWITCH, TACTILE (DISC 1) | | | | < SWITCH > | |
| S710 | 1-572-714-11 | SWITCH, PUSH (POWER ON/OFF) | | S702 | 1-571-300-21 | SWITCH, ROTARY (OPEN/UP) | |
| S711 | 1-554-303-21 | SWITCH, TACTILE (CHECK) | | | | ***** | |
| S712 | 1-554-303-21 | SWITCH, TACTILE (EDIT/TIME FADER) | | | | | |
| S718 | 1-554-303-21 | SWITCH, TACTILE (CLEAR) | | | | | |
| S725 | 1-554-303-21 | SWITCH, TACTILE (FADER) | | | | | |
| S726 | 1-554-303-21 | SWITCH, TACTILE (PEAK SEARCH) | | | | | |
| S727 | 1-554-303-21 | SWITCH, TACTILE (MUSIC SCAN) | | | | | |

| <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> | <u>Remark</u> | <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> | <u>Remark</u> |
|-------------------------------------------------------------------------------|----------------------------------|-------------------------------------------|---------------|-----------------|-----------------|--------------------------------|---------------|
| | | MISCELLANEOUS | | * | 4-949-235-01 | HOOK | |
| | | ***** | | * | 4-951-267-01 | INDIVIDUAL CARTON (C325) | |
| | | | | * | 4-951-267-11 | INDIVIDUAL CARTON (C225) | |
| 101 | 1-694-003-11 | JAMPER, FILM (WITH TARMINAL) | | | | | |
| △124 | 1-574-358-31 | CORD, POWER (WITH CONNECTOR) (Australian) | | | | | |
| △124 | 1-575-651-21 | CORD, POWER (AEP) | | | | | |
| △124 | 1-590-836-11 | CORD, POWER (US, Canadian) | | | | | |
| △151 | 8-848-144-11 | DEVICE, OPTICAL KSS-240A | | | | | |
| 152 | 1-575-001-11 | WIRE, FLAT TYPE (12 CORE) | | | | | |
| * 54 | 1-452-538-11 | MAGNET | | #1 | 7-685-647-79 | SCREW +BVTP 3X10 TYPE2 N-S | |
| 6 | 1-690-859-11 | WIRE (FLAT TYPE) (33 CORE) | | #2 | 7-682-548-04 | SCREW +BVTT 3X8 (S) | |
| 61 | 1-590-849-11 | WIRE, FLAT TYPE (5 CORE) | | #3 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S | |
| 8 | 1-690-860-11 | WIRE (FLAT TYPE) (12 CORE) | | #4 | 7-682-554-04 | SCREW +B 3X25 | |
| M101 | X-4917-504-1 | MOTOR ASSY (SLED) | | #5 | 7-685-647-79 | SCREW, TAPPING | |
| M102 | X-4917-523-3 | BASE (OUTSERT) ASSY (SPINDLE MOTOR) | | #6 | 7-682-661-09 | SCREW +PSW 4X8 | |
| M701 | A-4604-585-A | MOTOR ASSY, ROTARY (TABLE) | | #7 | 7-685-136-19 | SCREW +P 2.6X12 TYPE2 NON-SLIT | |
| M702 | A-4604-834-A | MOTOR ASSY, LOADING | | #8 | 7-621-255-15 | SCREW +P 2X3 | |
| S701 | 1-572-713-11 | SWITCH, PUSH (WITH CONNECTOR) (DOWN) | | | | | |
| △T901 | 1-449-955-11 | TRANSFORMER, POWER (AEP, Australian) | | | | | |
| △T901 | 1-450-876-11 | TRANSFORMER, POWER (US, Canadian) | | | | | |
| ***** | | | | | | | |
| ACCESSORIES & PACKING MATERIALS | | | | | | | |
| ***** | | | | | | | |
| 1-558-271-11 CORD, CONNECTION | | | | | | | |
| 1-693-053-11 REMOTE COMMANDER (RM-D325) (C325) | | | | | | | |
| 2-181-754-01 COVER, BATTERY (C325) | | | | | | | |
| 3-754-820-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (AEP) | | | | | | | |
| 3-754-820-21 MANUAL, INSTRUCTION (ENGLISH) (US, Canadian, Australian) | | | | | | | |
| 3-754-820-31 MANUAL, INSTRUCTION (FRENCH) (Canadian) | | | | | | | |
| 3-754-820-41 MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP) | | | | | | | |
| 3-795-629-11 INSTRUCTION (AEP) | | | | | | | |
| 4-937-945-01 PLATE (TRANSPORT), LOCK | | | | | | | |
| * 4-941-548-01 | LABEL, CLASS 1 (AEP, Australian) | | | | | | |
| * 4-944-110-01 | CUSHION (FRONT) | | | | | | |
| * 4-944-111-01 | CUSHION (REAR) | | | | | | |

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

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

Sony Corporation
Audio Group

English

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