

# CDP-CE575

## SERVICE MANUAL

Ver 1.1 2001.07

US Model  
Canadian Model  
AEP Model



|                                    |             |
|------------------------------------|-------------|
| Model Name Using Similar Mechanism | NEW         |
| CD Mechanism Type                  | CDM59-5BD27 |
| Base Unit Name                     | BU-5BD27    |
| Optical Pick-up Name               | PXR-104X    |

### SPECIFICATIONS

#### Compact disc player

|                     |  |
|---------------------|--|
| Laser               | Semiconductor laser ( $\lambda = 780 \text{ nm}$ )<br>Emission duration:<br>continuous |
| Frequency response  | 2 Hz to 20 kHz $\pm 0.5 \text{ dB}$  |
| Dynamic range       | More than 93 dB  |
| Harmonic distortion | Less than 0.0045%  |

#### Outputs

|                       | Jack type                | Maximum output level | Load impedance      |
|-----------------------|--------------------------|----------------------|---------------------|
| ANALOG OUT            | Phono jacks              | 2 V (at 50 kilohms)  | Over 10 kilohms     |
| DIGITAL OUT (OPTICAL) | Optical output connector | -18 dBm              | Wave length: 660 nm |
| PHONES                | Stereo phone jack        | 10 mW                | 32 ohms             |

#### General

|                             |  |
|-----------------------------|--|
| Power requirements          | 120 V AC, 60 Hz  |
| Power consumption           | 11 W   |
| Dimensions (approx) (w/h/d) | 430 x 110 x 400 mm<br>(17 x 4 3/8 x 15 3/4 in )<br>incl projecting parts |
| Mass (approx )              | 5.2 kg (11 lbs 8 oz)   |

#### Supplied accessories

Audio cord (2 phono plugs – 2 phono plugs) (1)  
Remote commander (remote) (1)  
R6 (size AA) batteries (2)

Design and specifications are subject to change without notice.

## COMPACT DISC PLAYER

# SONY®

9-929-586-12  
2001G0500-1  
© 2001.7

**Sony Corporation**  
Home Audio Company  
Shinagawa Tec Service Manual Production Group

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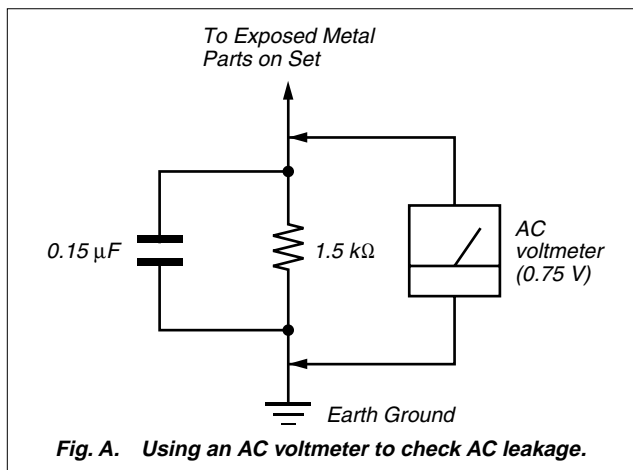
**SAFETY CHECK-OUT**

After correcting the original service problem, perform the following safety check 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.**

**SAFETY-RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY MARK  $\Delta$  OR DOTTED LINE WITH MARK  $\Delta$  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  $\Delta$  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.

## SECTION 1 SERVICING NOTES

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

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

During repair, pay attention to electrostatic break-down 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

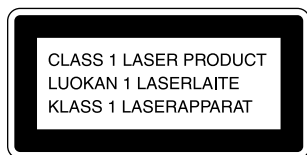
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

### CAUTION

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

### LASER DIODE AND FOCUS SEARCH OPERATION CHECK

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.



Carry out the "S curve check" in "CD section adjustment" and check that the S curve waveforms is output three times.

### Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

### Flexible Circuit Board Repairing

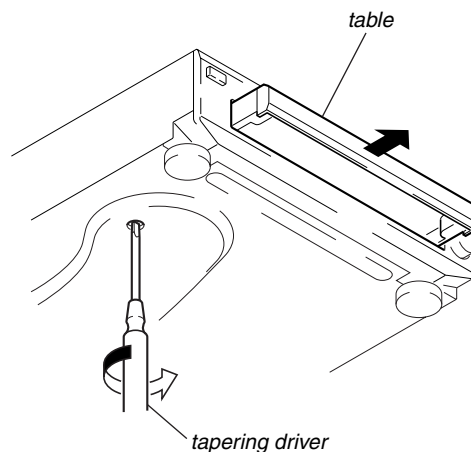
- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

### NOTES ON CLEANING OF OPTICAL PICK-UP LENS

Do not clean up the optical pick-up lens.

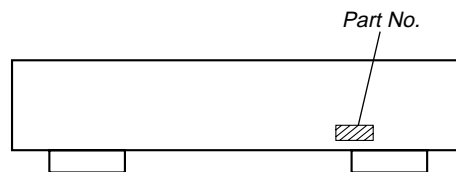
### HOW TO OPEN THE DISC TABLE WHEN POWER SWITCH TURNS OFF

Insert a tapering driver into the aperture of the unit bottom, and turn it in the direction of the arrow (to OUT direction).



*\* To close the disc table, turn the tapering driver in the reverse direction (to IN direction).*

### MODEL IDENTIFICATION - BACK PANEL -



| Model          | Part No.     |
|----------------|--------------|
| US model       | 4-233-720-0□ |
| Canadian model | 4-233-720-1□ |
| AEP model      | 4-233-720-2□ |

**SHIPMENT MODE**

Performed when returning the unit to the customer.  
 Custom File Erases all custom files and initializes settings.

**Procedure:**

1. Remove the discs from all trays.
2. While pressing the [DISK SKIP] button and [PROGRAM] button, press the [POWER] button to turn ON the power.
3. "NO DISC" is displayed, indicating that the mode has ended.

**Note:** "NO DISC" may be displayed even if there are discs on the trays.

**CD-TEXT TEST DISC**

This unit is able to display the TEXT data (character information) written in the CD on its fluorescent indicator tube.  
 The CD-TEXT TEST DISC (TGCS-313:4-989-366-01) is used for checking the display.  
 To check, perform the following procedure.

**Checking Method:**

1. Set the test disc on a free tray, and chuck the disc.
2. Press the [▶] button and playback the disc.
3. The following will be displayed on the fluorescent indicator tube.  
 Display : 1kHz/0 dB/ L&R
4. Turn the [◀◀ AMS ▶▶] knob to switch the track. The text data of each track will be displayed.  
 For details of the displayed contents for each track, refer to "Table 1 : CD-TEXT TEST DISC TEXT Data Contents" and "Table 2 : CD-TEXT TEST DISC Recorded Contents and Display".

**Restrictions in CD-TEXT Display**

In this unit, some special characters will not be displayed properly. These will be displayed as a space or a character resembling it. For details, refer to "Table 2 : CD-TEXT DISC Recorded Contents and Display".

**Table 1 : CD-TEXT TEST DISC TEXT Data Contents (TRACKS No. 1 to 41:Normal Characters)**

| TRACK No. | Displayed Contents | TRACK No. | Displayed Contents               |
|-----------|--------------------|-----------|----------------------------------|
| 1         | 1kHz/0dB/L&R       | 22        | 1kHz/-90dB/L&R                   |
| 2         | 20Hz/0dB/L&R       | 23        | Infinity Zero w/o emphasis//L&R  |
| 3         | 40Hz/0dB/L&R       | 24        | Infinity Zero with emphasis//L&R |
| 4         | 100Hz/0dB/L&R      | 25        | 400Hz+7kHz(4:1)/0dB/L&R          |
| 5         | 200Hz/0dB/L&R      | 26        | 400Hz+7kHz(4:1)/-10dB/L&R        |
| 6         | 500Hz/0dB/L&R      | 27        | 19kHz+20kHz(1:1)/0dB/L&R         |
| 7         | 1kHz/0dB/L&R       | 28        | 19kHz+20kHz(1:1)/-10dB/L&R       |
| 8         | 5kHz/0dB/L&R       | 29        | 100Hz/0dB/L*                     |
| 9         | 7kHz/0dB/L&R       | 30        | 1kHz/0dB/L*                      |
| 10        | 10kHz/0dB/L&R      | 31        | 10kHz/0dB/L*                     |
| 11        | 16kHz/0dB/L&R      | 32        | 20kHz/0dB/L*                     |
| 12        | 18kHz/0dB/L&R      | 33        | 100Hz/0dB/R*                     |
| 13        | 20kHz/0dB/L&R      | 34        | 1kHz/0dB/R*                      |
| 14        | 1kHz/0dB/L&R       | 35        | 10kHz/0dB/R*                     |
| 15        | 1kHz/-1dB/L&R      | 36        | 20kHz/0dB/R*                     |
| 16        | 1kHz/-3dB/L&R      | 37        | 100Hz Square Wave//L&R           |
| 17        | 1kHz/-6dB/L&R      | 38        | 1kHz Square Wave//L&R            |
| 18        | 1kHz/-10dB/L&R     | 39        | 1kHz w/emphasis/-0.37dB/L&R      |
| 19        | 1kHz/-20dB/L&R     | 40        | 5kHz w/emphasis/-4.53dB/L&R      |
| 20        | 1kHz/-60dB/L&R     | 41        | 16kHz w/emphasis/-9.04dB/L&R     |
| 21        | 1kHz/-80dB/L&R     |           |                                  |

**Note :** The contents of Track No. 1 to 41 are the same as those of the current TEST DISC-their titles are displayed.

**Table 2:** CD-TEXT TEST DISC Recorded Contents and Display  
(In this unit, some special characters cannot be displayed. This is no a fault.)

| TRACK No. | Recorded contents                        | Display                                    |
|-----------|--|--|
| 42        | ! " # \$ % & ' (21h to 27h) 1kHz 0dB L&R | ← All the same                             |
| 43        | ( ) * + , - . / (28h to 2Fh)             | ← All the same                             |
| 44        | 0 1 2 3 4 5 6 7 (30h to 37h)             | ← All the same                             |
| 45        | 8 9 : ; < = > ? (38h to 3Fh)             | ← All the same                             |
| 46        | @ A B C D E F G (40h to 47h)             | ← All the same                             |
| 47        | H I J K L M N O (48h to 4Fh)             | ← All the same                             |
| 48        | P Q R S T U V W (50h to 57h)             | ← All the same                             |
| 49        | X Y Z [ ¥ ] ^ _ (58h to 5Fh)             | X Y Z [ \ ] ^ _ (58....                    |
| 50        | ` a b c d e f g (60h to 67h)             | ← All the same                             |
| 51        | h i j k l m n o (68h to 6Fh)             | ← All the same                             |
| 52        | p q r s t u v w (70h to 77h)             | ← All the same                             |
| 53        | x y z {   } ~ ■ (78h to 7Fh)             | ← All the same                             |
| 54        | ■ i ç £ ¤ ¥ ¦ § (A0h to A7h) 8859-1      | ■■ (A0.... ■ i ç £ ¤ ¥ ¦ are not displayed |
| 55        | ♪ © ª « ¬ ® ¯ (A8h to AFh)               | イ ウ エ オ ヤ ユ ヨ ツ (A8....                    |
| 56        | • ± ² ³ ´ µ ¶ • (B0h to B7h)             | - フ イ ウ エ オ カ キ (B0....                    |
| 57        | † ° » ¼ ½ ¾ ¿ (B8h to BFh)               | ク ケ コ サ シ ス セ ソ (B8....                    |
| 58        | À Á Â Ã Ä Å Æ Ç (C0h to C7h)             | タ チ ツ テ ト ナ ニ ヌ (C0....                    |
| 59        | È É Ê Ë Ì Í Î Ï (C8h to CFh)             | ネ ノ ハ ヒ フ ヘ ホ マ (C8....                    |
| 60        | Ð Ñ Ò Ó Ô Õ Ö × (D0h to C7h)             | ミ ム メ モ ヤ ユ ヨ ラ (D0....                    |
| 61        | Ø Ù Ú Û Ü Ý Þ ß (D8h to DFh)             | リ ル レ ロ ワ ン ´ ° (D8....                    |
| 62        | à á â ã ä å æ ç (E0h to E7h)             | (E0.... à á â ã ä å æ ç are not displayed  |
| 63        | è é ê ë ì í î ï (E8h to FFh)             | (E8.... è é ê ë ì í î ï are not displayed  |
| 64        | ð ñ ò ó ô õ ö ÷ (F0h to F7h)             | (F0.... ð ñ ò ó ô õ ö ÷ are not displayed  |
| 65        | ø ù ú û ü ý þ ÿ (F8h to FFh)             | (F8.... ø ù ú û ü ý þ ÿ are not displayed  |
| 66        | No.66                                    | ← All the same                             |
| 67        | No.67                                    | ← All the same                             |
| to        | to                                       | to   |
| 99        | No.99                                    | ← All the same                             |

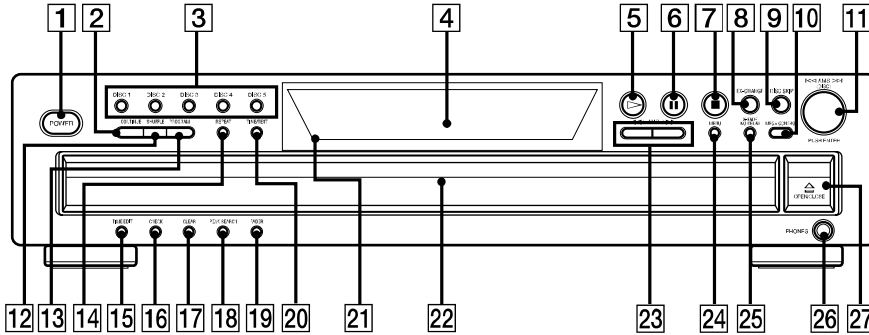
This section is extracted from instruction manual.

Parts Identification

Front Panel

The items are arranged in alphabetical order.

Refer to the pages indicated in parentheses ( ) for details.



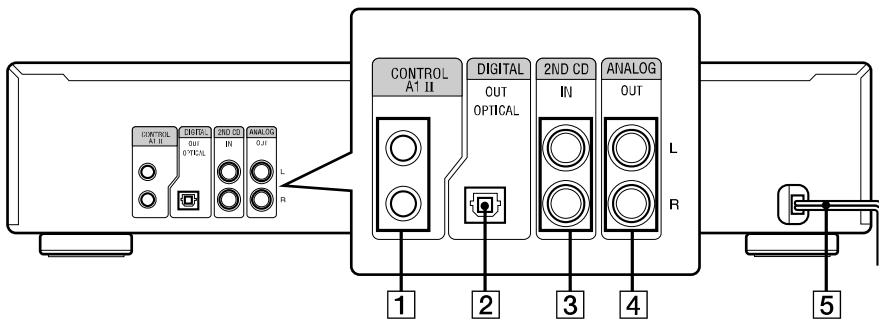
- CHECK **16** (13)
- CLEAR **17** (13, 14, 16, 17)
- CONTINUE **2** (9, 13, 15, 18)
- DISC 1-5 **3** (9, 10, 13)
- Disc compartment **22** (9)
- DISC SKIP **9** (9, 12, 13)
- Display **4** (11)
- EX-CHANGE **8** (12, 15)
- FADER **19** (14, 20)
- MEGA CONTROL **10** (18, 19)
- MENU **24** (8, 16, 17)

- PEAK SEARCH **18** (15)
- PHONES jack **26** (10)
- POWER **1** (7, 9, 16)
- PROGRAM **13** (9, 13, 18)
- Remote sensor **21** (6)
- REPEAT **14** (10, 18)
- SHUFFLE **12** (9, 10, 18)
- TIME EDIT **15** (14)
- TIME/TEXT **20** (11)
- X-FADE/NO DELAY **25** (19, 20)

**BUTTON DESCRIPTIONS**

- ⊞ OPEN/CLOSE **27** (7, 9, 10, 11)
- ▷ **5** (9, 13, 15, 18, 20, 22)
- ▬ **6** (10, 15, 18, 22)
- **7** (10, 15, 18)
- ⏮◀AMS▶⏭ (DISC) dial **11** (10, 13, 15, 17, 18, 19)
- ◀▶ (AMS+/-) **23** (10, 14, 17, 18)

Rear Panel

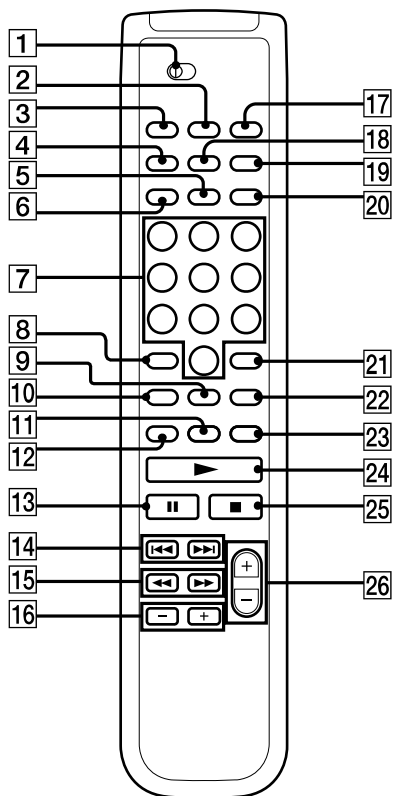


- 2ND CD IN jacks **3** (8)
- ANALOG OUT L/R jacks **4** (6)
- CONTROL A1II jacks **1** (6, 20)
- DIGITAL OUT OPTICAL jack **2** (7)
- Mains lead **5** (6)

4

Remote Control

Parts Identification



- ANALOG OUT LEVEL +/- **26** (6, 7, 10)
- CD1/2/3 switch **1** (7)
- CHECK **9** (13)
- CLEAR **22** (13, 14, 16, 17)
- CONTINUE **3** (9, 13, 15, 18)
- DISC/CAPS **6** (10, 17)
- DISC SKIP +/- **16** (9, 12, 13)
- ENTER **21** (17)
- FADER/DEL **20** (14, 20)
- HIGH-LIGHT **23** (12)
- MEGA CONTROL **4** (18, 19)
- MUSIC SCAN **11** (10)
- NAME INPUT **12** (17)
- NO DELAY **19** (19, 20)
- Number buttons **7** (10, 13, 17)
- PROGRAM **17** (9, 13, 18)
- REPEAT **10** (10, 18)
- SHUFFLE **2** (9, 10, 18)
- TIME/TEXT/SPACE **5** (11, 17)
- X-FADE **18** (19, 20)

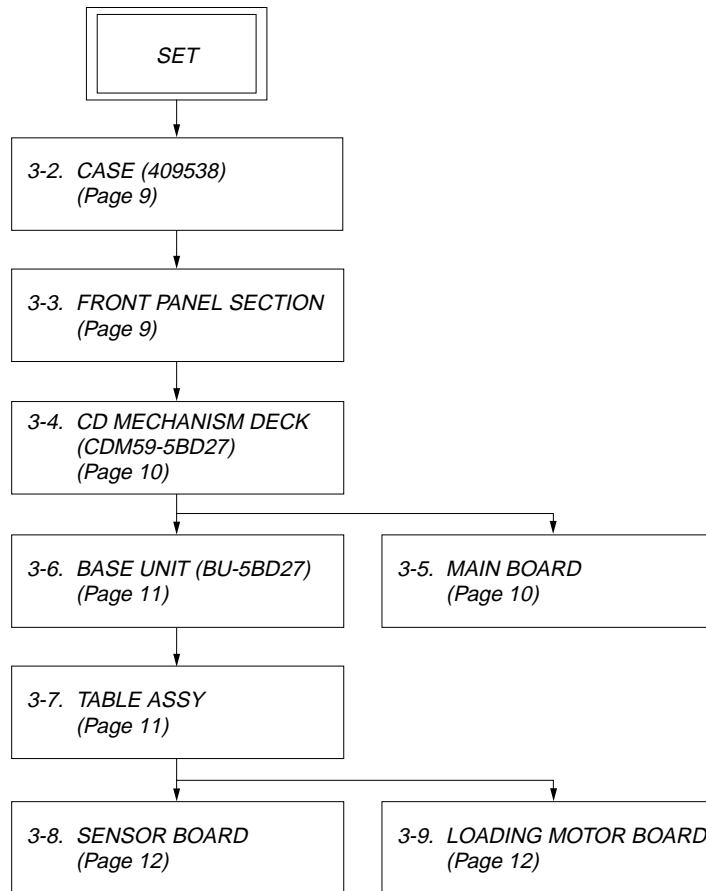
**BUTTON DESCRIPTIONS**

- >10 **8** (10, 13)
- ▶ **24** (9, 13, 15, 18, 20, 22)
- ⏸ **13** (10, 15, 18, 22)
- **25** (10, 15, 18)
- ◀◀/▶▶ **14** (10, 13, 15, 17, 18, 19)
- ◀◀/▶▶ **15** (10, 14, 17, 18)

## SECTION 3 DISASSEMBLY

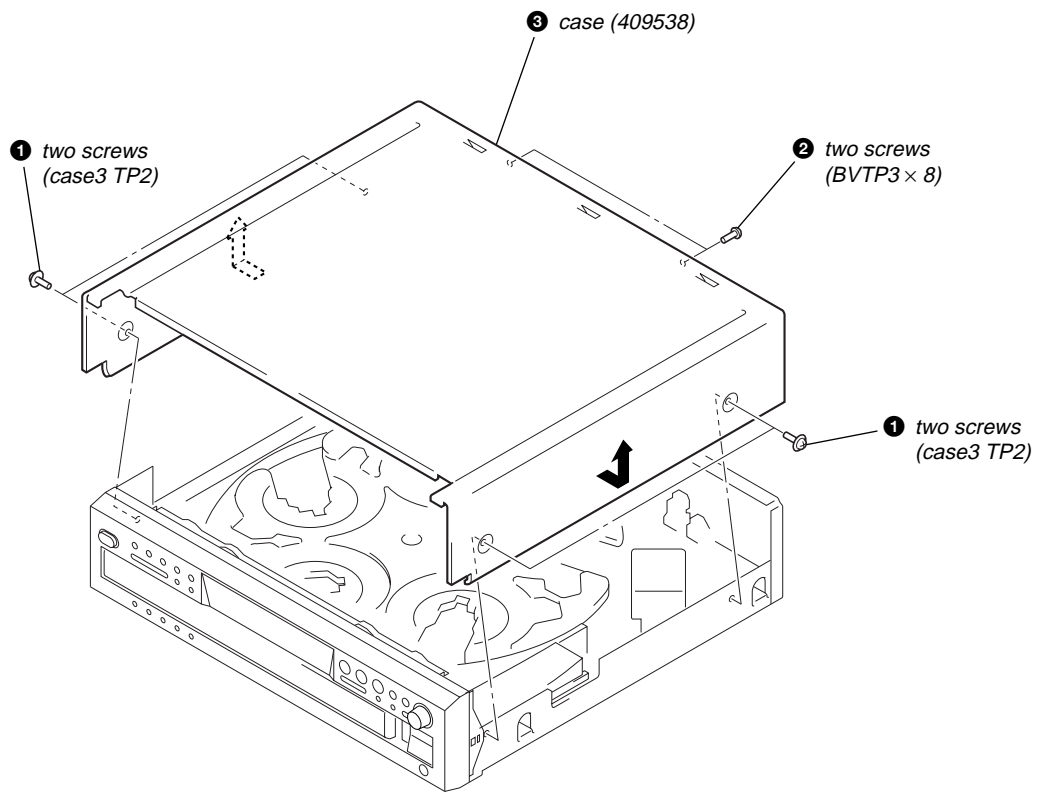
• This set can be disassembled in the order shown below.

### 3-1. DISASSEMBLY FLOW

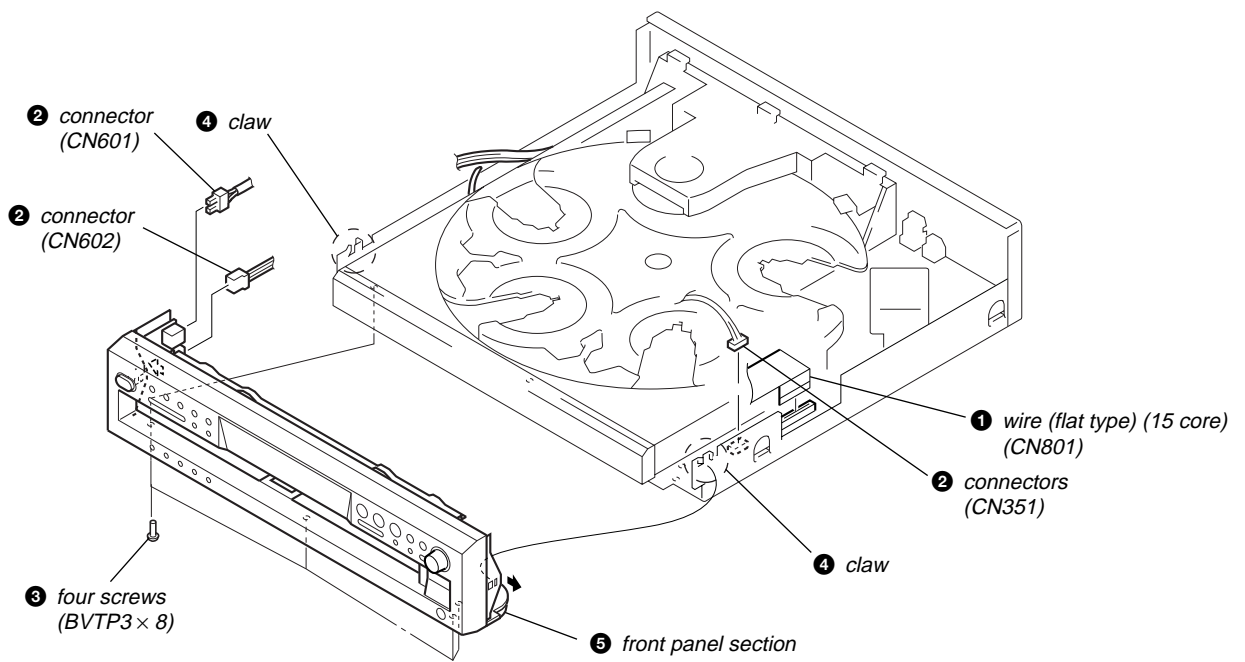




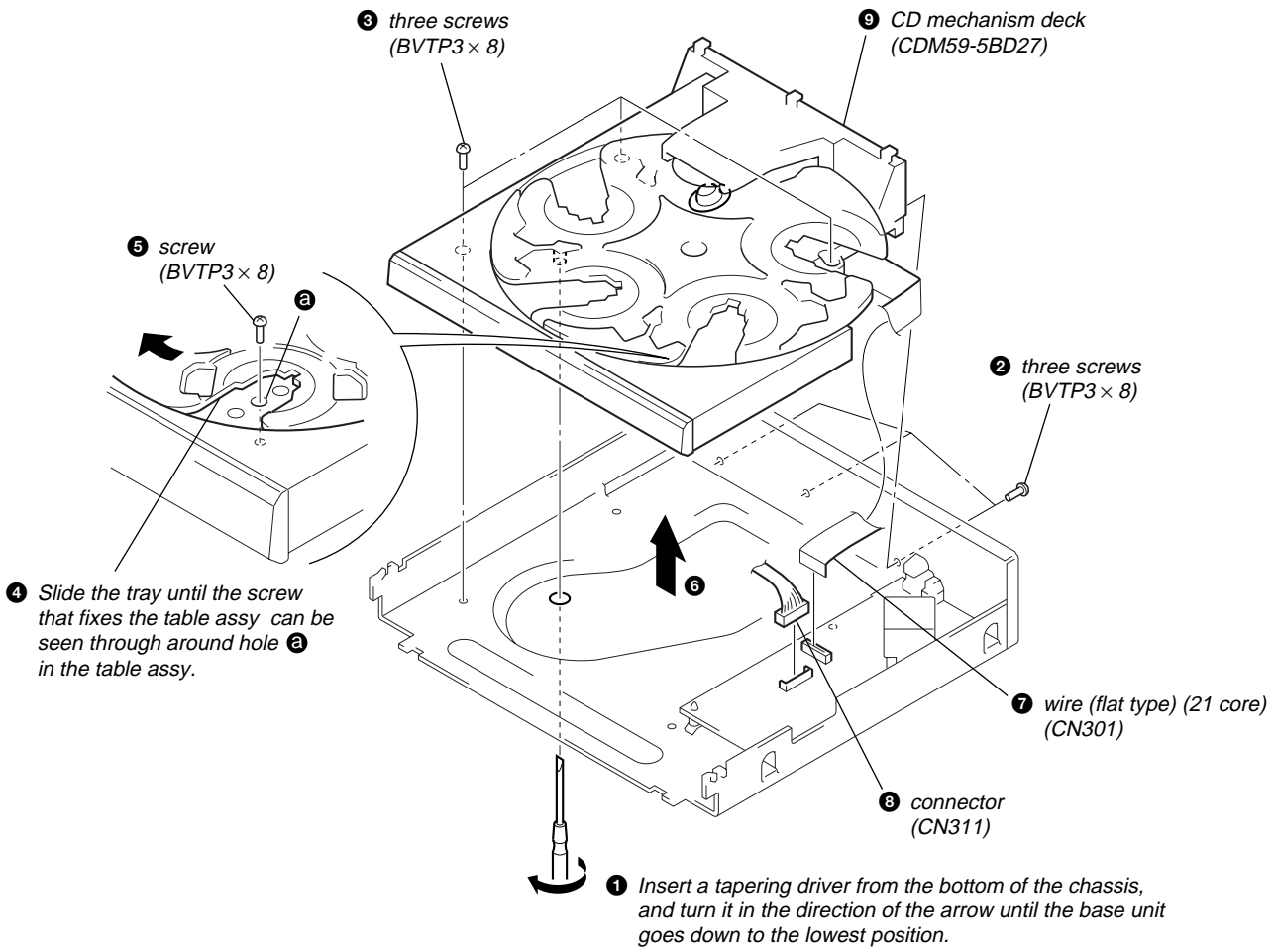
3-2. CASE (409538)



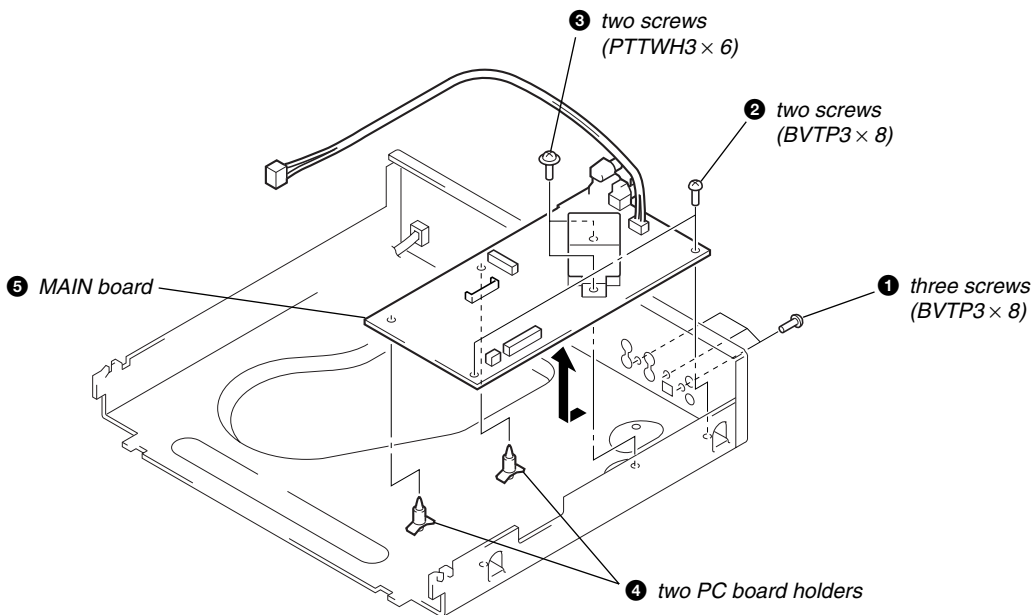
3-3. FRONT PANEL SECTION



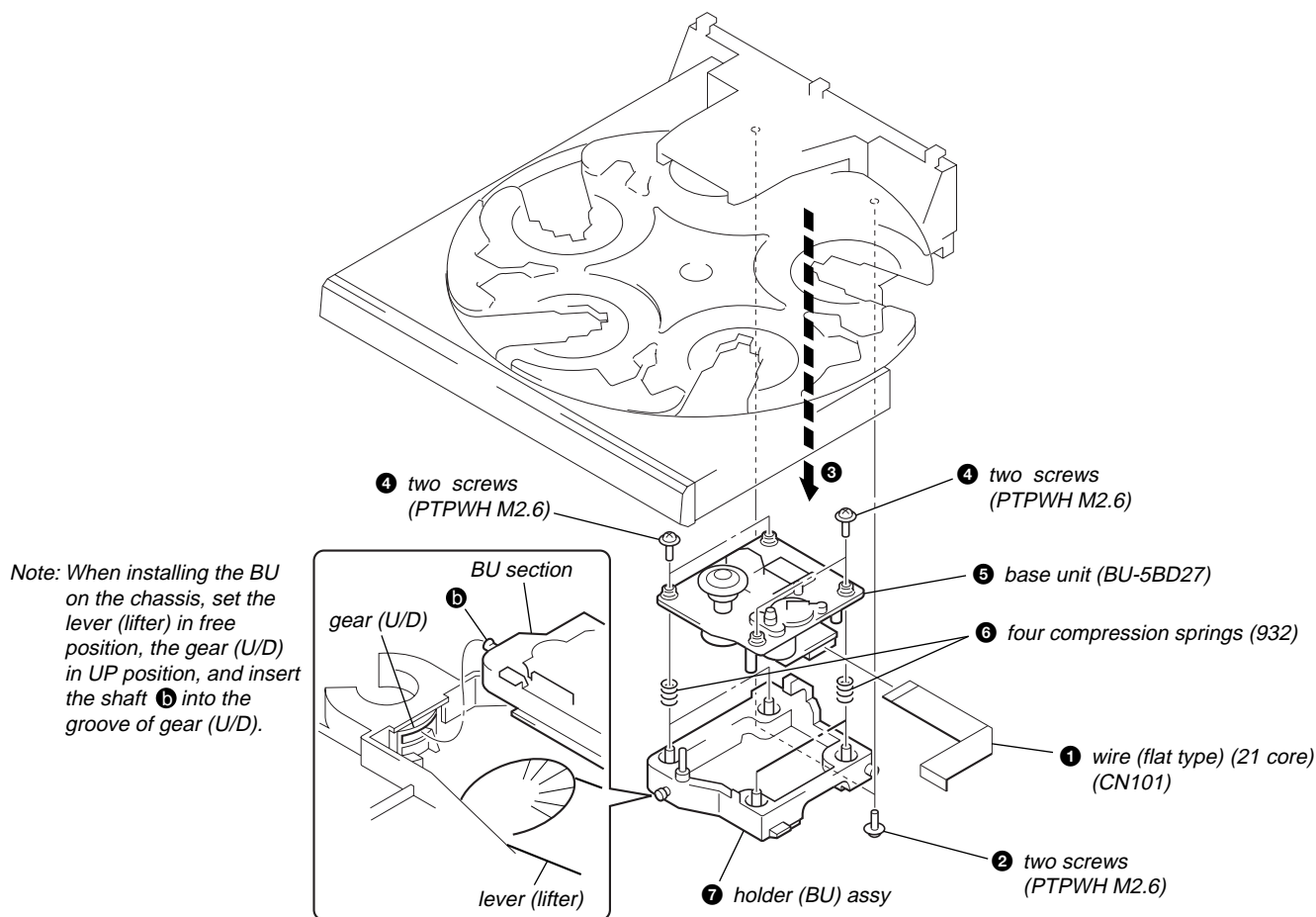
3-4. CD MECHANISM DECK (CDM59-5BD27)



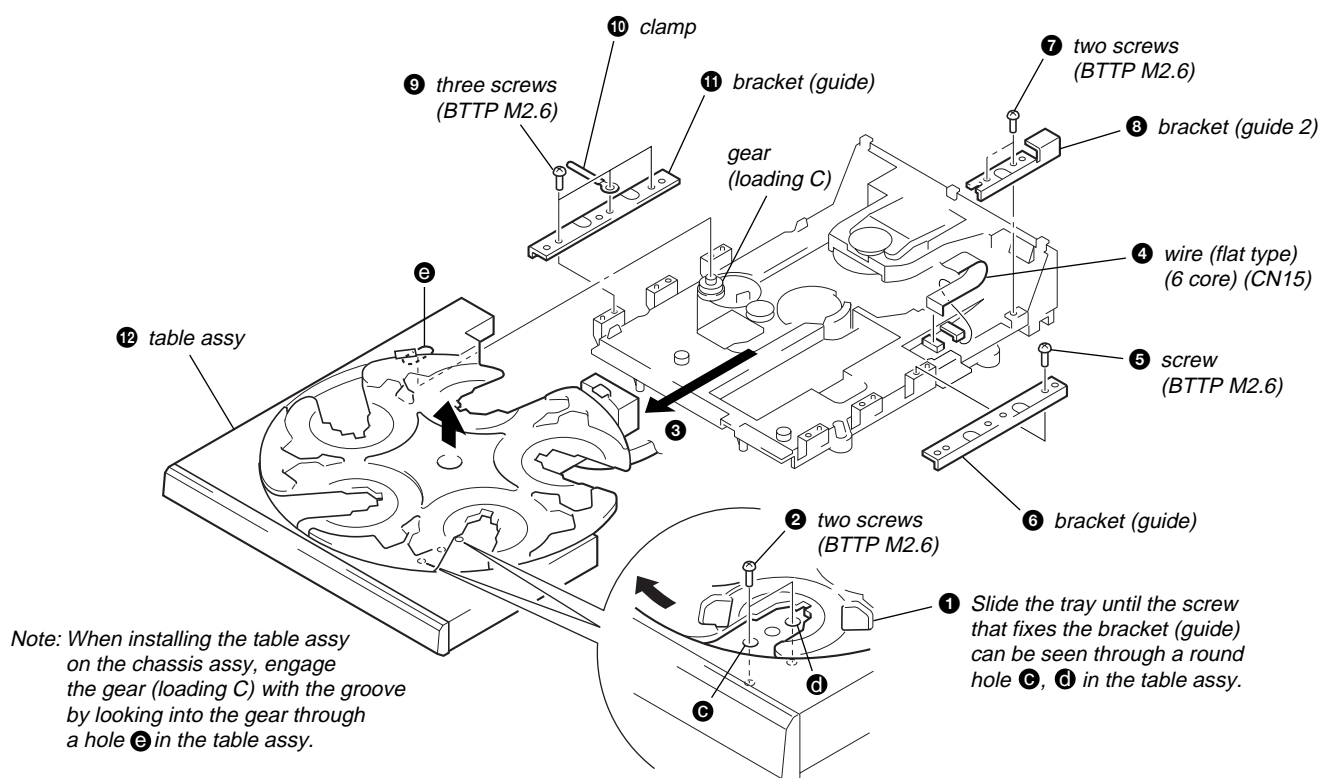
3-5. MAIN BOARD



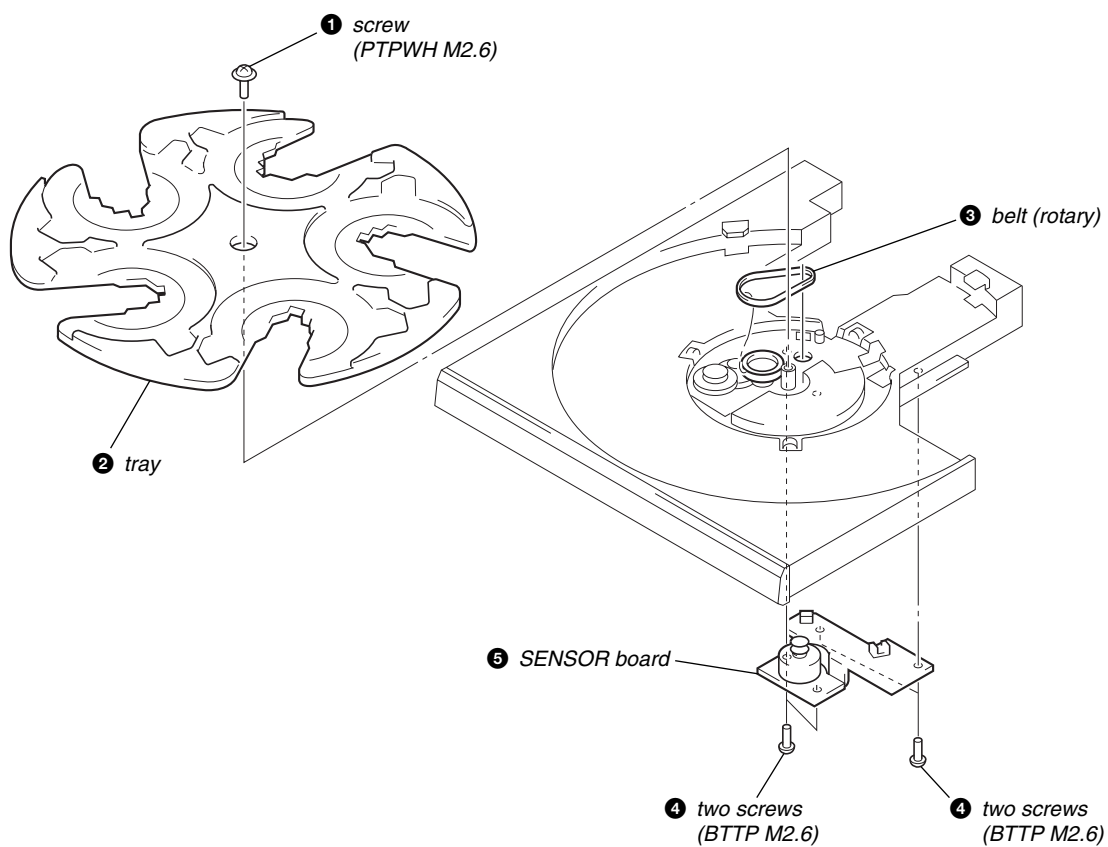
3-6. BASE UNIT (BU-5BD27)



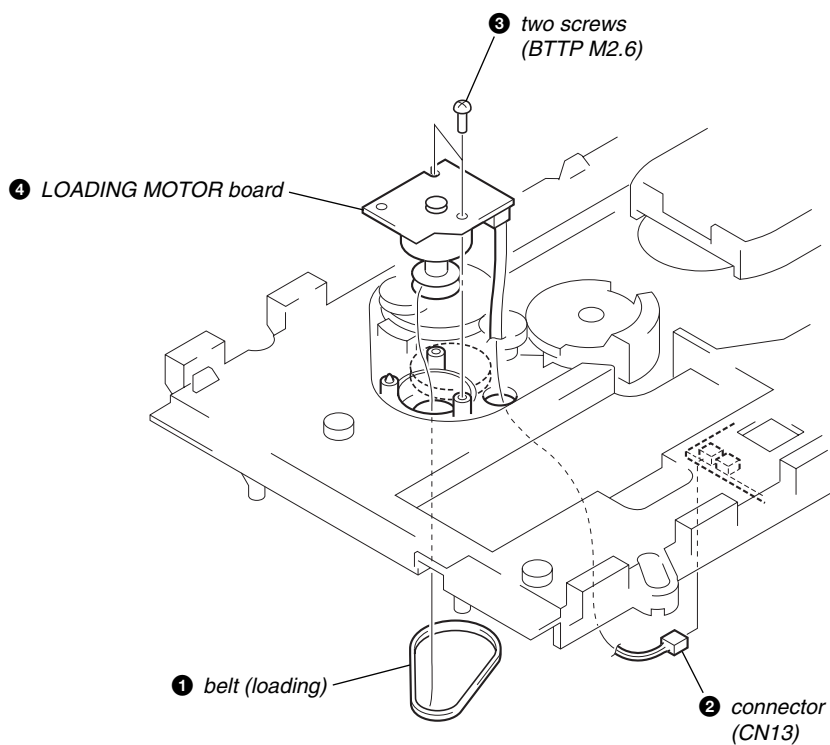
3-7. TABLE ASSY



3-8. SENSOR BOARD



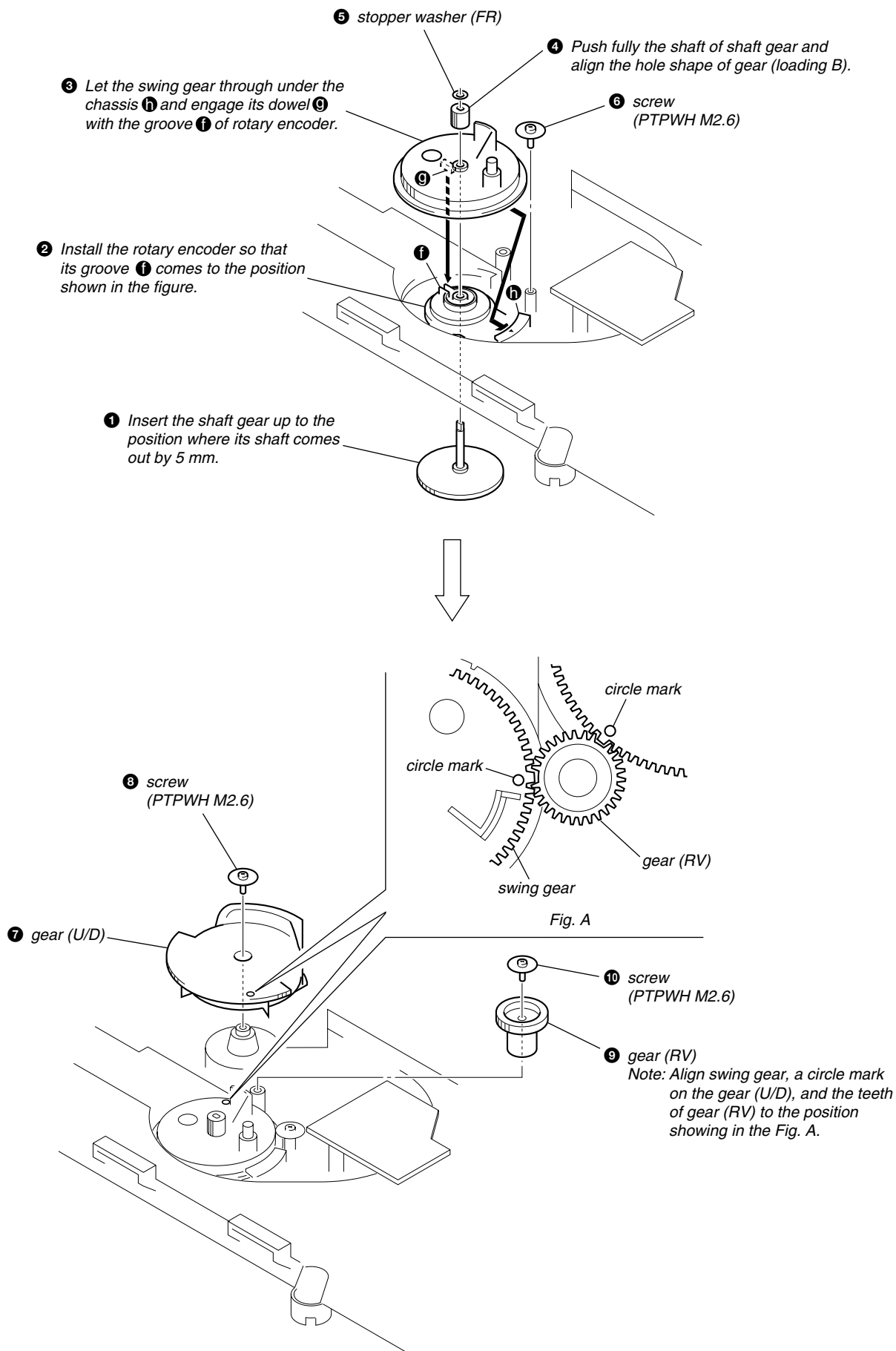
3-9. LOADING MOTOR BOARD



## SECTION 4 ASSEMBLY

**Note:** Follow the assembly procedure in the numerical order given.

### ADJUSTING PHASE OF SWING GEAR AND GEAR (U/D)



## SECTION 5 TEST MODE

### ADJ MODE

**NOTE:** This mode cannot be performed without a general remote commander.

1. Chuck the CD first, and then turn OFF the power.
2. Short-circuit the test point TP (ADJ) of the MAIN board and ground with a lead wire.
3. Press the **[POWER]** button to turn ON the power.  
The CD is playback the 2nd track automatically and the ADJ mode is set.
4. To exit the mode, press the **[POWER]** button to turn OFF the power.

### ADJ Mode Special Function Table

| Button     | Function  |
|------------|---|
| DISC 1     | RFDC display                                    |
| DISC 2     | Decision of Disc size (8/12 cm)                 |
| DISC 3     | Change the slice level                          |
| DISC 4     | Change the focus bias (high/middle/low)         |
| DISC 5     | Track jump (1st ↔ 20th)                         |
| TIME/TEXT  | TRK off/on                                      |
| ▶▶         | Offset (VC), EF bias display                    |
| ◀◀         | Offset (RF, FE, TRK) display                    |
| EX-CHANGE  | Focus bias down                                 |
| DISK SKIP  | Focus bias up                                   |
| X-FADE     | Track gain up/down                              |
| EDIT       | Disc kind (aluminum/RW), side (8/12 cm) display |
| CHECK      | S-curve mode                                    |
| CLEAR      | RFCK → GFS → error rate display                 |
| PEAK SERCH | Best point of focus bias, jitter value display  |
| FADER      | Auto gain display                               |

### FLUORESCENT INDICATOR TUBE, LED ALL LIT, AND KEY CHECK MODE

1. Short-circuit the test TP (AFADJ) of the MAIN board and ground with a lead wire.
2. Press the **[POWER]** button to turn ON the power.  
The whole fluorescent indicator tube lights up.
3. All buttons have individual button numbers.  
When a button is pressed, the button number is counted up and displayed.



When remote controller signals are received, "RM \*\*" will be displayed.

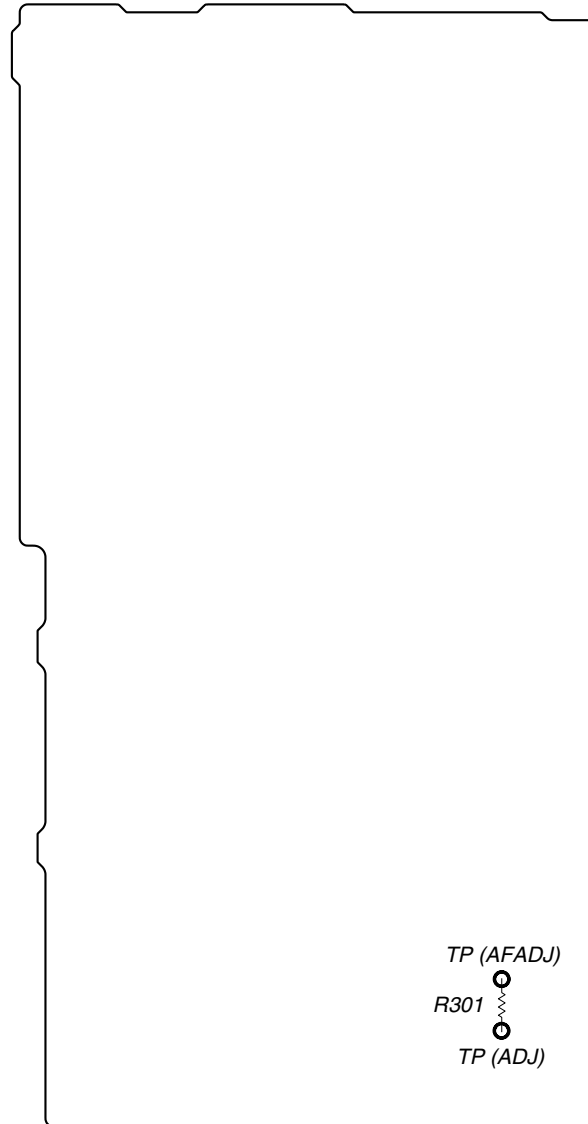
(\* are the numbers corresponding to the remote controller buttons)

When using the remote controller, switch the **[CD1/2/3]** switch to CD1.

4. To exit the mode, press the **[POWER]** button to turn OFF the power.

Connecting Location:

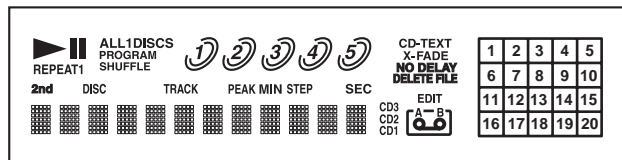
– MAIN BOARD (Component Side) –



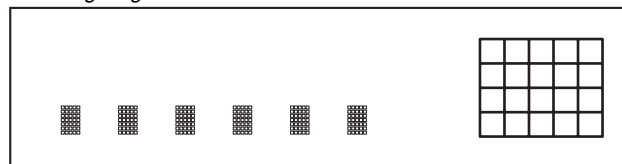
**Buttons and Corresponding Button Numbers**

| Button           | Button Number or Display   |
|------------------|--|
| DISC1            | 12   |
| DISC2            | 11   |
| DISC3            | 10   |
| DISC4            | 9  |
| DISC5            | 8  |
| CONTINUE         | 13   |
| SHUFFLE          | 14   |
| PROGRAM          | 15   |
| REPEAT           | 22   |
| TIME/TEXT        | 21   |
| EDIT             | 4  |
| CHECK            | 3  |
| CLEAR            | 2  |
| PEAK SEARCH      | 1  |
| FADER            | 0  |
|                  | Partial lighting 1 (grid check)  |
|                  | 25   |
|                  | Partial lighting 1 (segment check)   |
| EX-CHANGE        | 27   |
| DISC SKIP        | 28   |
|                  | 19   |
|                  | 20   |
| MENU             | 18   |
| X-FADE, NO DELAY | 17   |
| MEGA CONTROL     | 16   |
|                  | 29   |
|                  | When rotated clockwise: The music calendar numerals light up in ascending order.<br>When rotated counterclockwise: The music calendar numerals light up in descending order. |
|                  | All lit (LED lighting)   |

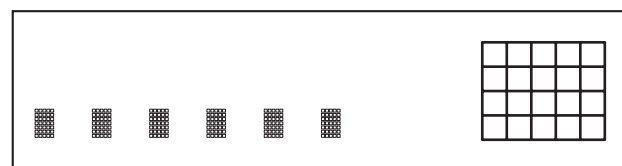
All lit



Partial lighting 1

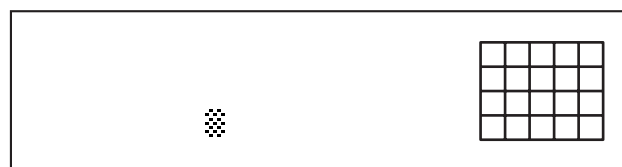
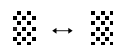


Light alternately



Partial lighting 2

Light alternately



Light alternately



**AGING MODE**

For the aging mode, three modes of all mode, disc table mode, and loading mode are available.

| Code No. | Status   | All mode | Disc table mode | Loading mode |
|----------|--|----------|-----------------|--------------|
| 0        | CLOSE (Tray close)                                 | ○        | ×               | ○            |
| 1        | TOC read   | ○        | ○               | ○            |
| 2        | Access to last track                               | ○        | ×               | ×            |
| 3        | Play of last track (2 sec)                         | ○        | ×               | ×            |
| 4        | EX OPEN (Tray open while chucking)                 | ○        | ×               | ○            |
| 5        | EX SKIP (Disc tray rotate)                         | ○        | ×               | ×            |
| 6        | EX CLOSE (Tray close)                              | ○        | ×               | ○            |
| 7        | Access to first track                              | ○        | ×               | ×            |
| 8        | Play of first track (2 sec)                        | ○        | ×               | ×            |
| 9        | OPEN (tray open)                                   | ○        | ×               | ○            |
| A        | DISC SKIP (Disc tray rotate, and change next disc) | ○        | ○               | ×            |

The discs are selected in the order of DISC 1 → DISC 2 → DISC 3 → DISC 4 → DISC 5 → DISC 1....Empty trays are skipped. But the order is random in the disc table mode.

This set has the Aging mode for operation check of the mechanism deck.

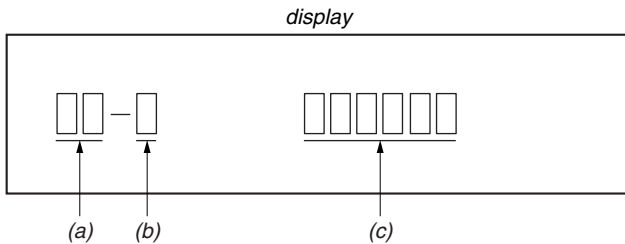
- If a failure occurred  
The aging operation stops and a faulty status is displayed on the fluorescent indicator tube.
- If no failure occurs  
The aging operation continues repeatedly.

**Note:** Do not use the test disc when performing aging.

Aging will not be performed properly if discs with tracks shorter than 4 seconds are used.

**Procedure:**

1. Press the **POWER** button and turn ON the power.
2. Set discs on all trays.  
(More than two discs if five are not available)
3. All mode:  
Press the **CHECK**, **CONTINUE** and **■** buttons at the same time.  
Disc table mode:  
Press the **CHECK**, **CONTINUE** and **DISC SKIP** buttons at the same time.  
Loading mode:  
Press the **CHECK**, **CONTINUE** and **EX-CHANGE** buttons at the same time.
4. Aging starts, and the fluorescent indicator tube will display as follows.



- (a) A : All mode
  - AD : Disc table mode
  - AL : Loading mode
  - NG : failure occurred
  - (b) Code No.
  - (c) Aging count (000001 to 999999)
5. To exit the mode, press the **POWER** button to turn OFF the power.



## MECHANISM DECK CHECK MODE

For the mechanism deck check mode, two modes of the disc table mode and the loading mode are available.

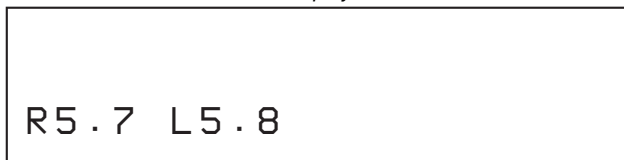
In the mechanism deck check mode, the disc table rotating time and the loading time in each section are measured and displayed.

### Disc Table Mode

#### Procedure:

1. Press the **POWER** button while pressing three buttons of **▶**, **⊞ OPEN/CLOSE**, and **REPEAT** simultaneously.
2. Start the table mode, and turn to right then turn to left, and display rotating time as follows.

*display*



3. To release from this mode, press the **POWER** button to turn OFF the power.

### Loading Mode

#### Procedure:

1. Press the **POWER** button while pressing three buttons of **▶**, **⊞ OPEN/CLOSE**, and **TIME/TEXT** simultaneously.
2. Start the loading mode and display as follows.

| Operation      | Display      |
|----------------|--------------|
| Start          | START --.-   |
| Open and close | CLOSE 1.9    |
| BU up          | BU UP 0.5    |
| EX open        | EX OPEN 1.9  |
| EX close       | EX CLOSE 2.2 |
| BU down        | BU DOWN 0.4  |
| Open           | OPEN 1.7     |

3. To change the display, turn the **◀◀ AMS ▶▶** knob.
4. To release from this mode, press the **POWER** button to turn OFF the power.

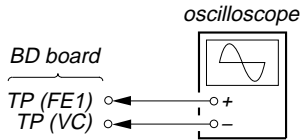
## SECTION 6 ELECTRICAL ADJUSTMENTS

**Note:**

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use PATD-012 disc (4-225-203-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

**S Curve Check**

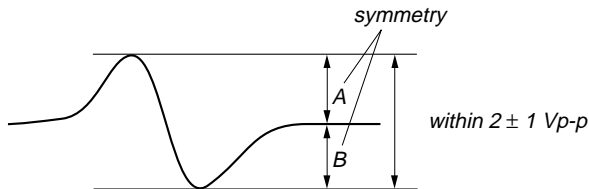
**Connection:**



**Procedure:**

1. Set the test disc (PATD-012). Disc chucking operation is complete, then press the [POWER] button to turn the power off.
2. Connect an oscilloscope to test point TP (FE1) and TP (VC) on the BD board.
3. Connect between test point TP (ADJ) on the MAIN board and GND by lead wire.
4. Press the [POWER] button to turn the power on and enter the ADJ mode.  
Then playback the number two track automatically, press the [STOP] button to stop the playback.
5. Press the [CHECK] button actuate the focus search. (actuate the focus search when disc table is moving in and out)
6. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within  $2 \pm 1$  Vp-p.

S-curve waveform

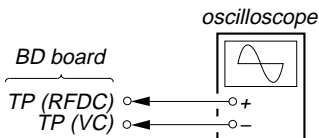


- Note:**
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
  - Take sweep time as long as possible and light up the brightness to obtain best waveform.

**Checking Location:** BD board

**RFDC Level Check**

**Connection:**

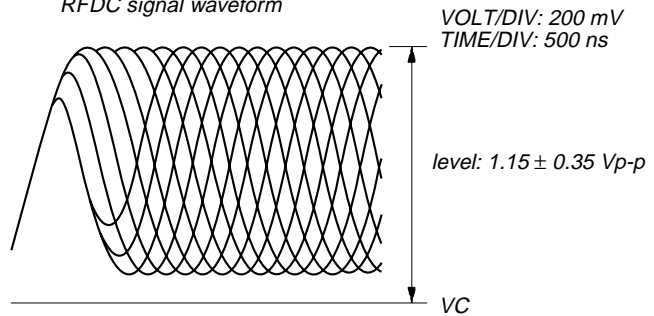


**Procedure:**

1. Set the test disc (PATD-012). Disc chucking operation is complete, then press the [POWER] button to turn the power off.
2. Connect an oscilloscope to test point TP (RFDC) and TP (VC) on the BD board.
3. Connect between test point TP (ADJ) on the MAIN board and GND by lead wire.
4. Press the [POWER] button to turn the power on and enter the ADJ mode, then playback the number two track automatically.
5. Confirm that oscilloscope waveform is clear and check the level of between RFDC top and VC is correct or not.

**Note:** A clear RFDC signal waveform means that the shape “◊” can be clearly distinguished at the center of the waveform.

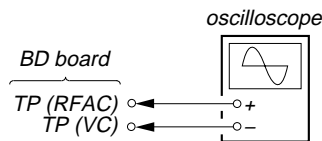
RFDC signal waveform



**Checking Location:** BD board

**RFAC Level Check**

**Connection:**

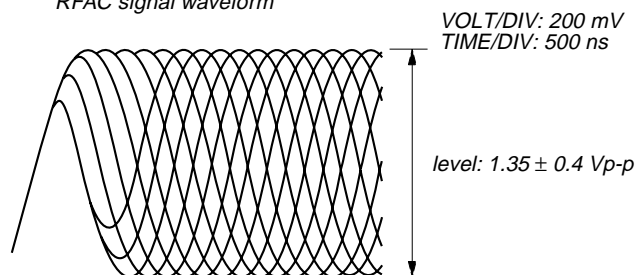


**Procedure:**

1. Set the test disc (PATD-012). Disc chucking operation is complete, then press the [POWER] button to turn the power off.
2. Connect an oscilloscope to test point TP (RFAC) and TP (VC) on the BD board.
3. Connect between test point TP (ADJ) on the MAIN board and GND by lead wire.
4. Press the [POWER] button to turn the power on and enter the ADJ mode, then playback the number two track automatically.
5. Confirm that oscilloscope waveform is clear and check RFAC signal level is correct or not.

**Note:** A clear RFAC signal waveform means that the shape “◊” can be clearly distinguished at the center of the waveform.

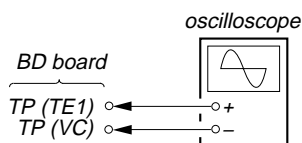
RFAC signal waveform



**Checking Location:** BD board

### E-F Balance Check

#### Connection:



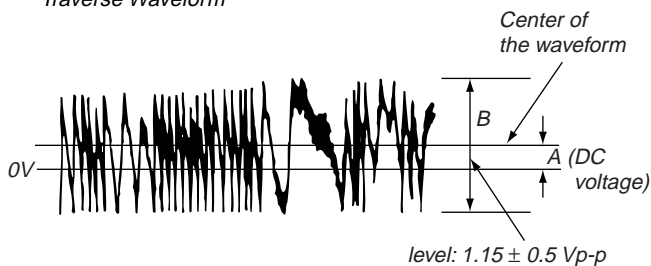
#### Procedure:

1. Set the test disc (PATD-012). Disc chucking operation is complete, then press the **[POWER]** button to turn the power off.
2. Connect an oscilloscope to test point TP (TE1) and TP (VC) on the BD board.
3. Connect between test point TP (ADJ) on the MAIN board and GND by lead wire.
4. Press the **[POWER]** button to turn the power on and enter the ADJ mode, then playback the number two track automatically.
5. Press the **[TIME]** button. (The tracking servo and the sledding servo are turned OFF)
6. Check the level B of the oscilliscope waveform and the A (DC voltage) of the center of the Traverse waveform.

Confirm the following :

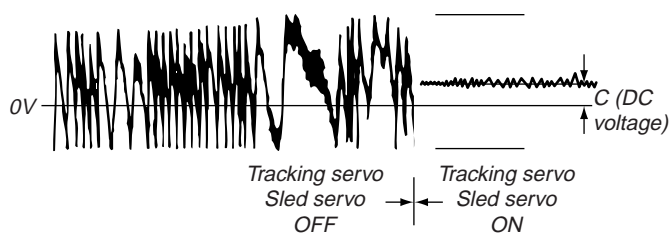
$$A/B \times 100 = \text{less than } \pm 22\%$$

#### Traverse Waveform



7. Press the **[TIME]** button. (The tracking servo and sledding servo are turned ON)  
Confirm the C (DC voltage) is almost equal to the A (DC voltage) is step 6.

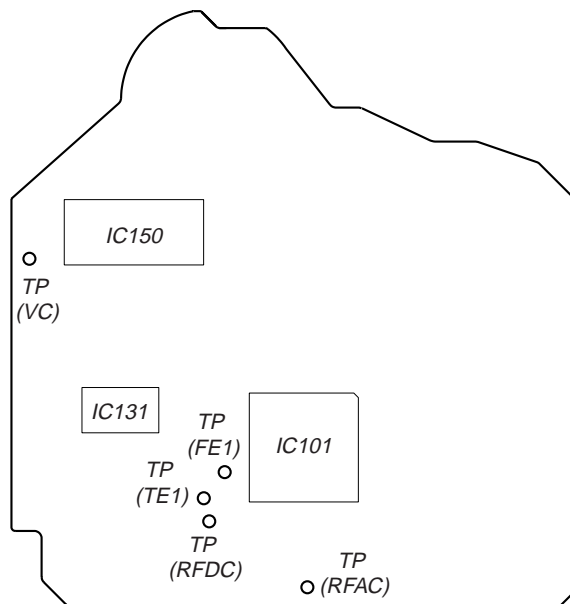
#### Traverse Waveform



Checking Location: BD board

#### Checking Location:

– BD BOARD (Conductor Side) –



MEMO

## SECTION 7 DIAGRAMS

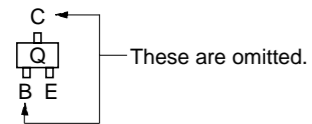
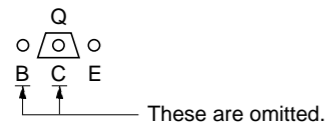
### 7-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

#### Note on Printed Wiring Board:

- — : parts extracted from the component side.
- : parts extracted from the conductor side.
- : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

**Caution:**  
 Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.  
 (Conductor Side)  
 Parts face side: Parts on the parts face side seen from the parts face are indicated.  
 (Component Side)

- Indication of transistor



#### Note on Schematic Diagram:

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

#### Note:

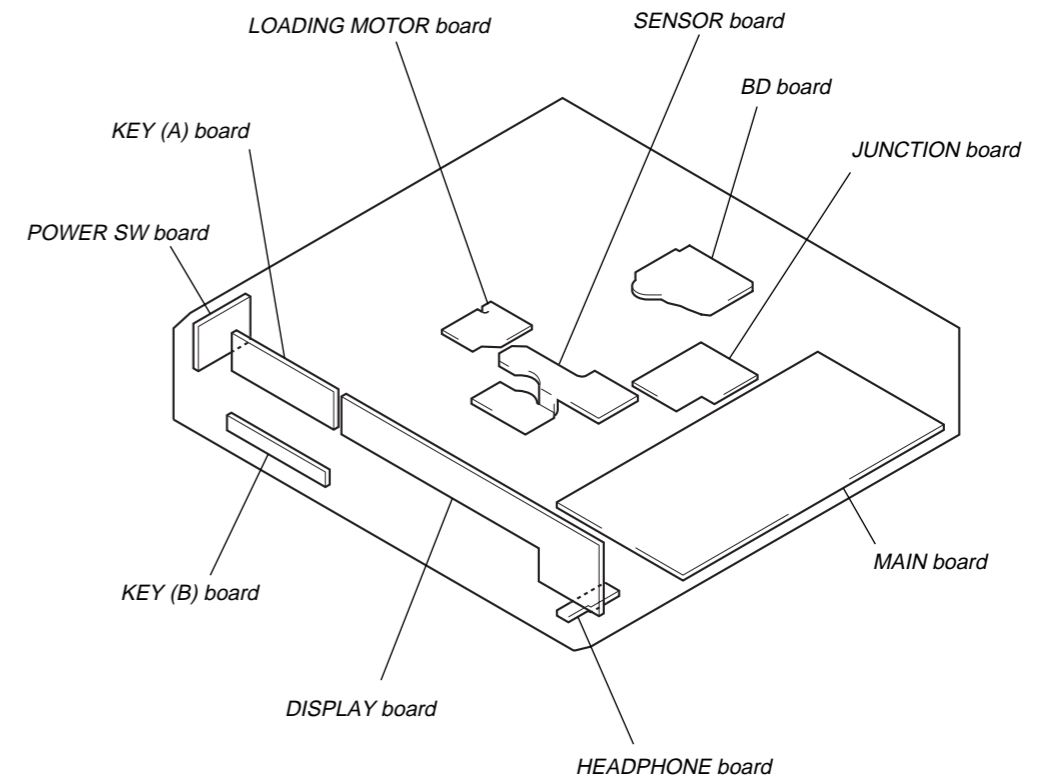
The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

#### Note:

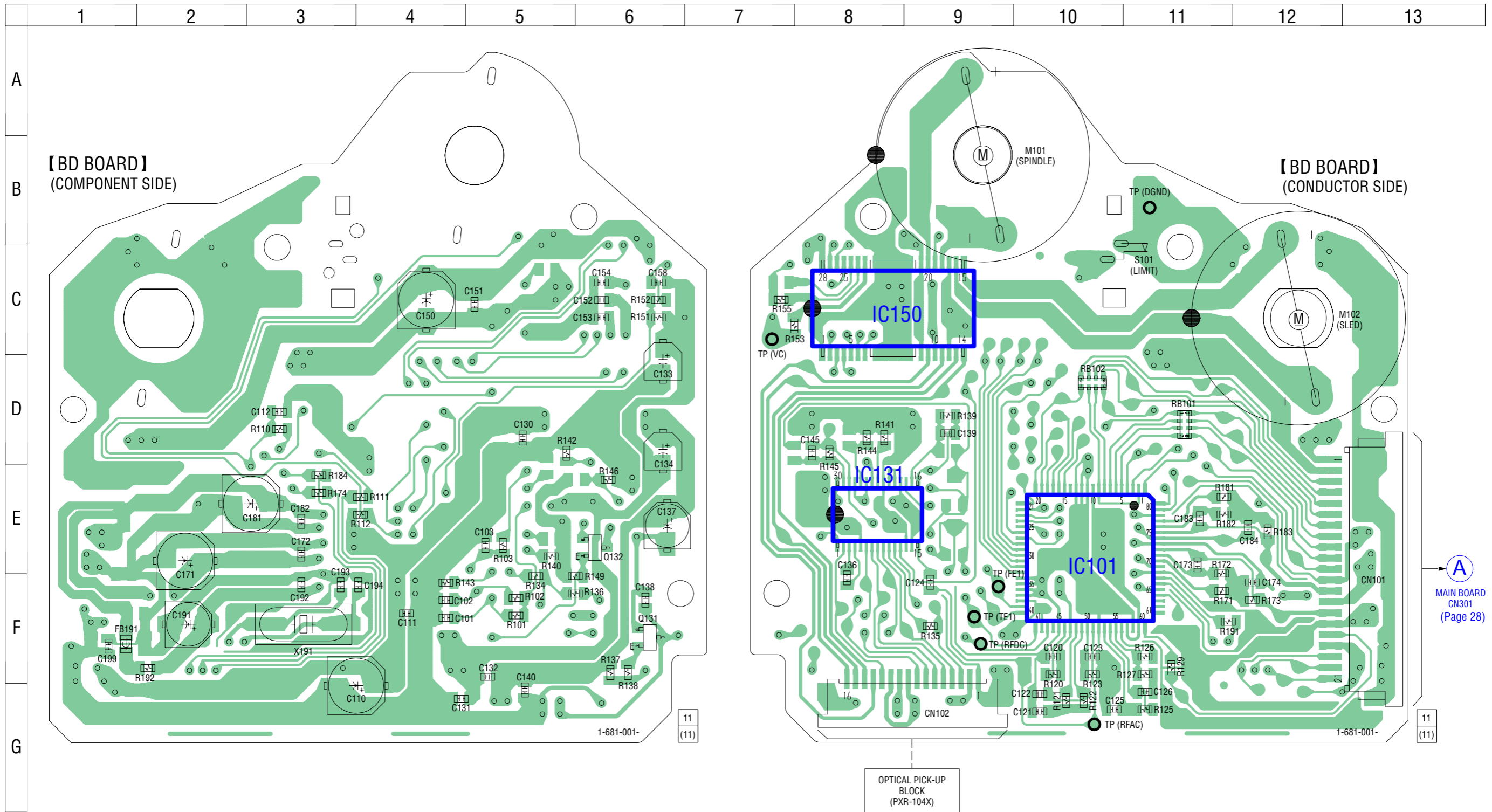
Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- — : B+ Line.
- - - - : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.  
no mark : CD PLAY
- 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.  
⇒ : CD PLAY  
⇒ : DIGITAL OUT

#### • Circuit Boards Location



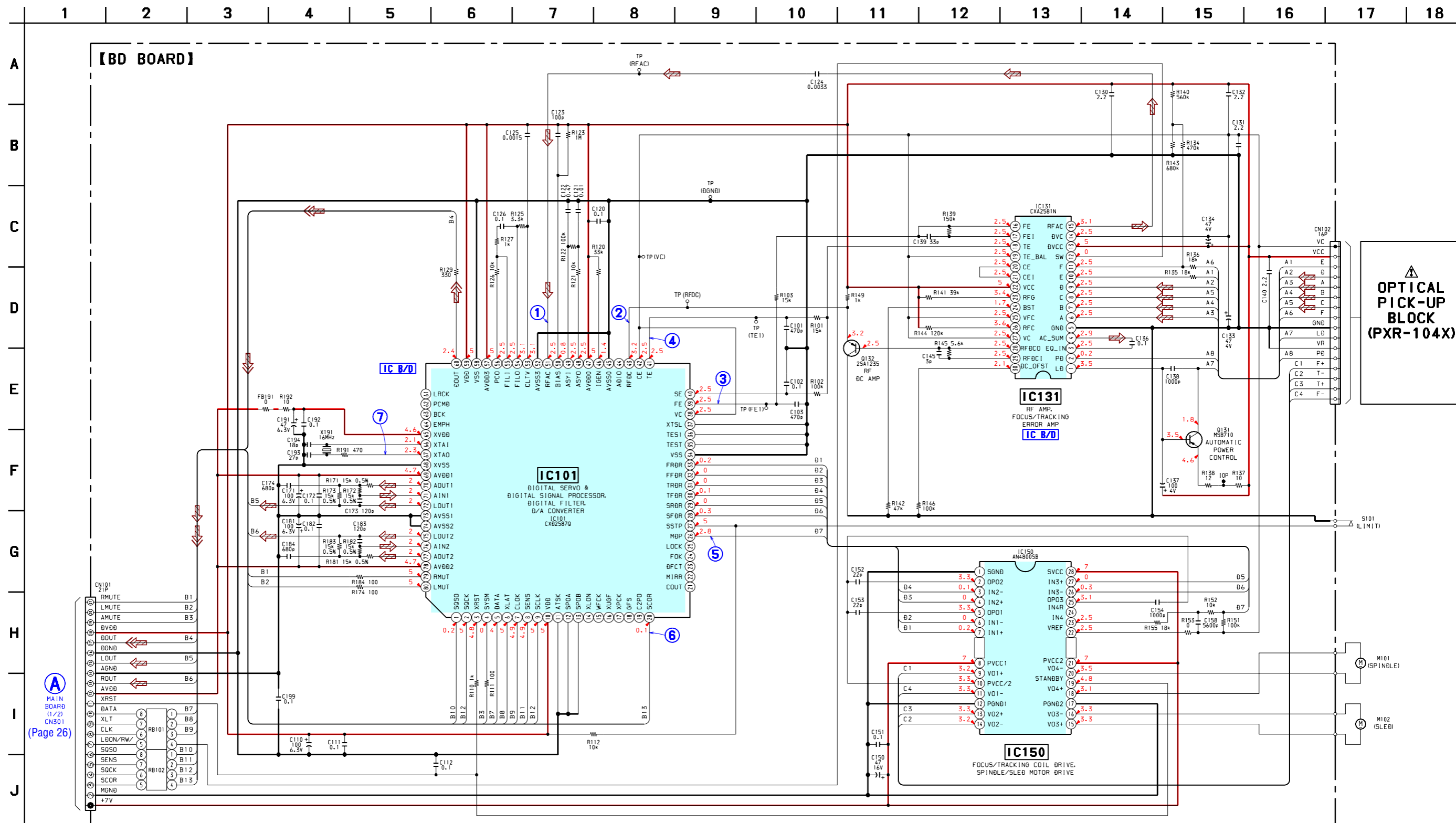
7-2. PRINTED WIRING BOARD – BD Section – • See page 21 for Circuit Boards Location.



• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| IC101    | C-8      |
| IC131    | E-8      |
| IC150    | E-10     |
| Q131     | F-6      |
| Q132     | E-6      |

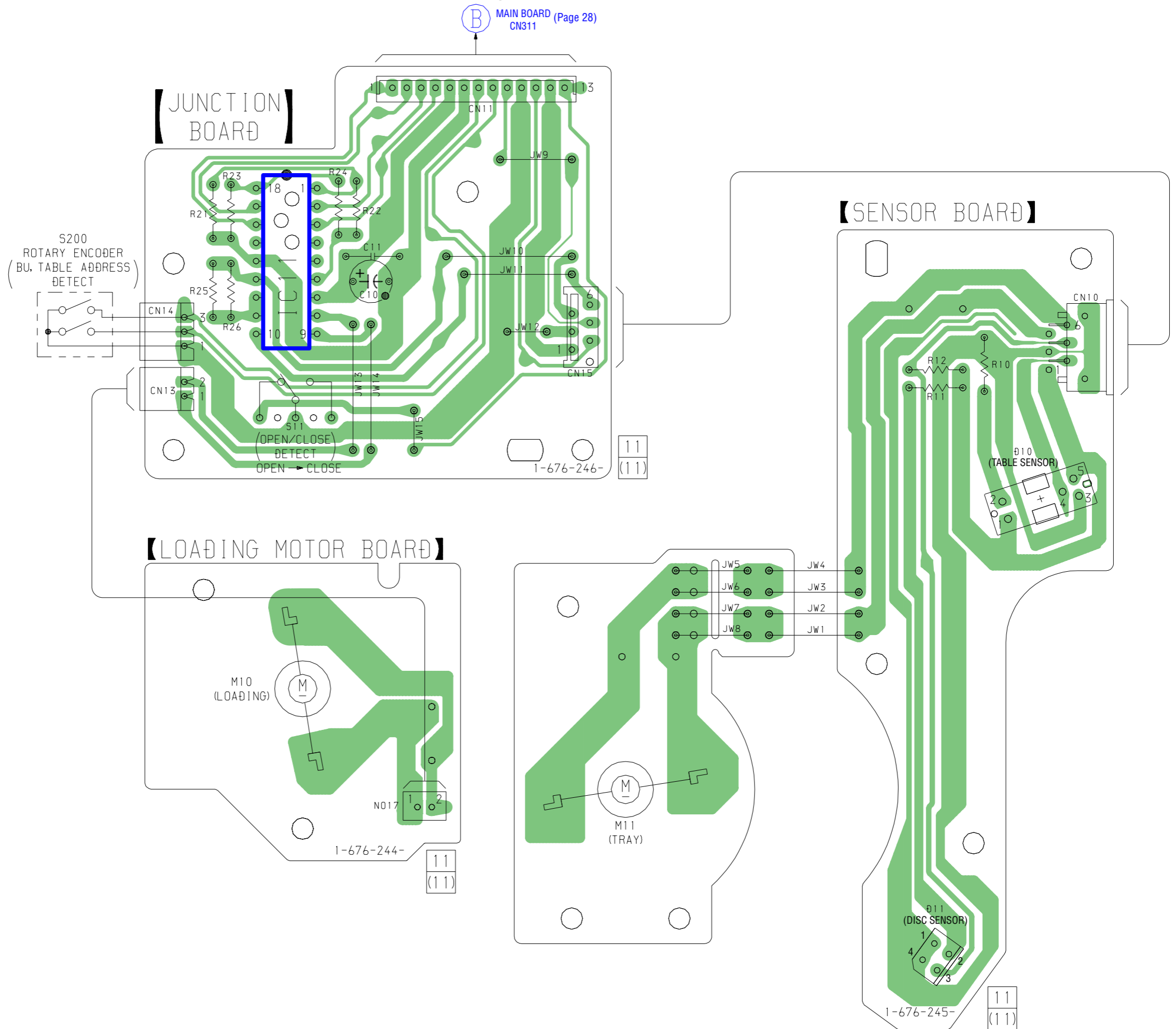
7-3. SCHEMATIC DIAGRAM – BD Section – • See page 32 for Waveforms. • See page 29 for IC Block Diagrams.



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

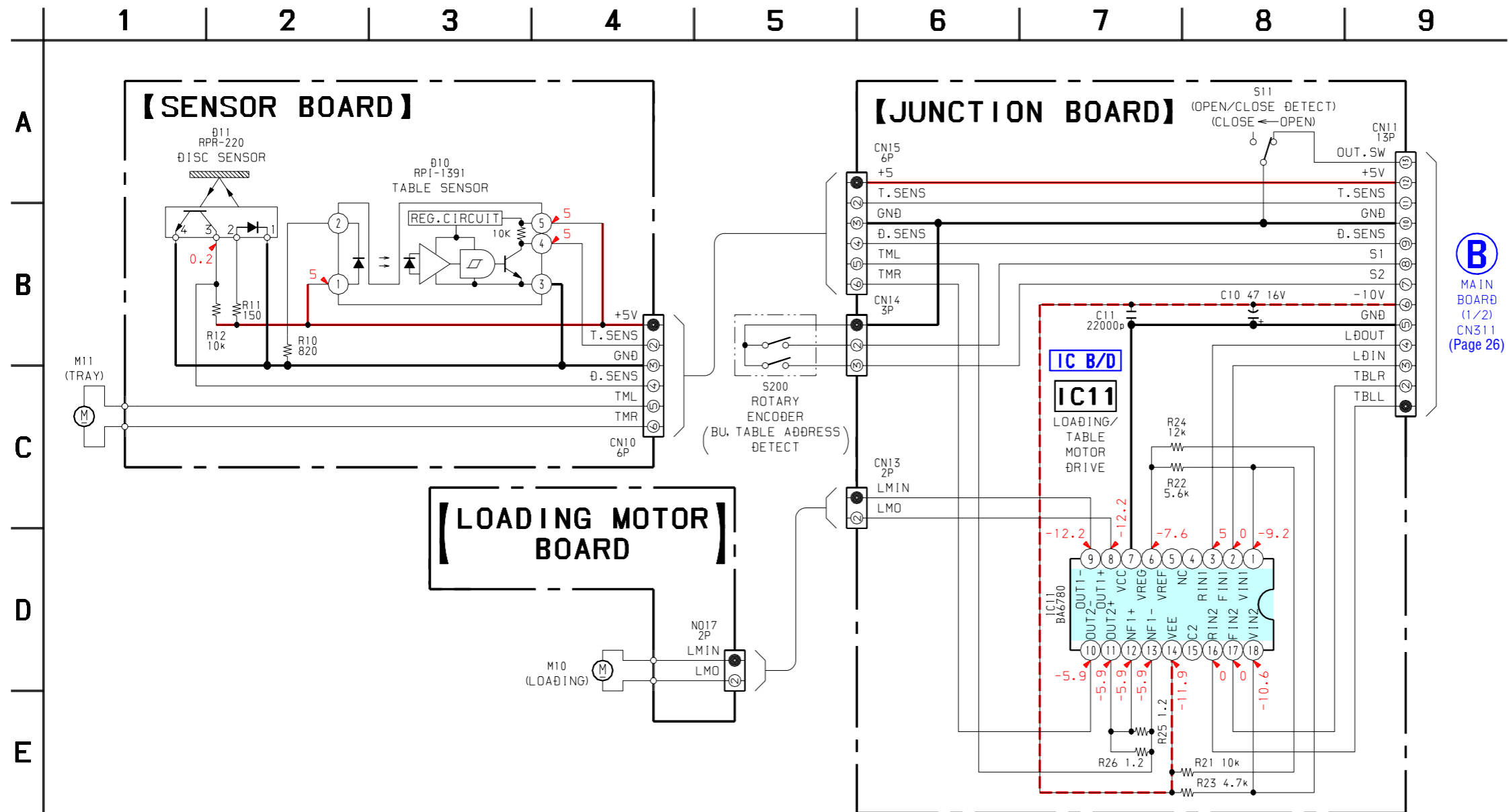
Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

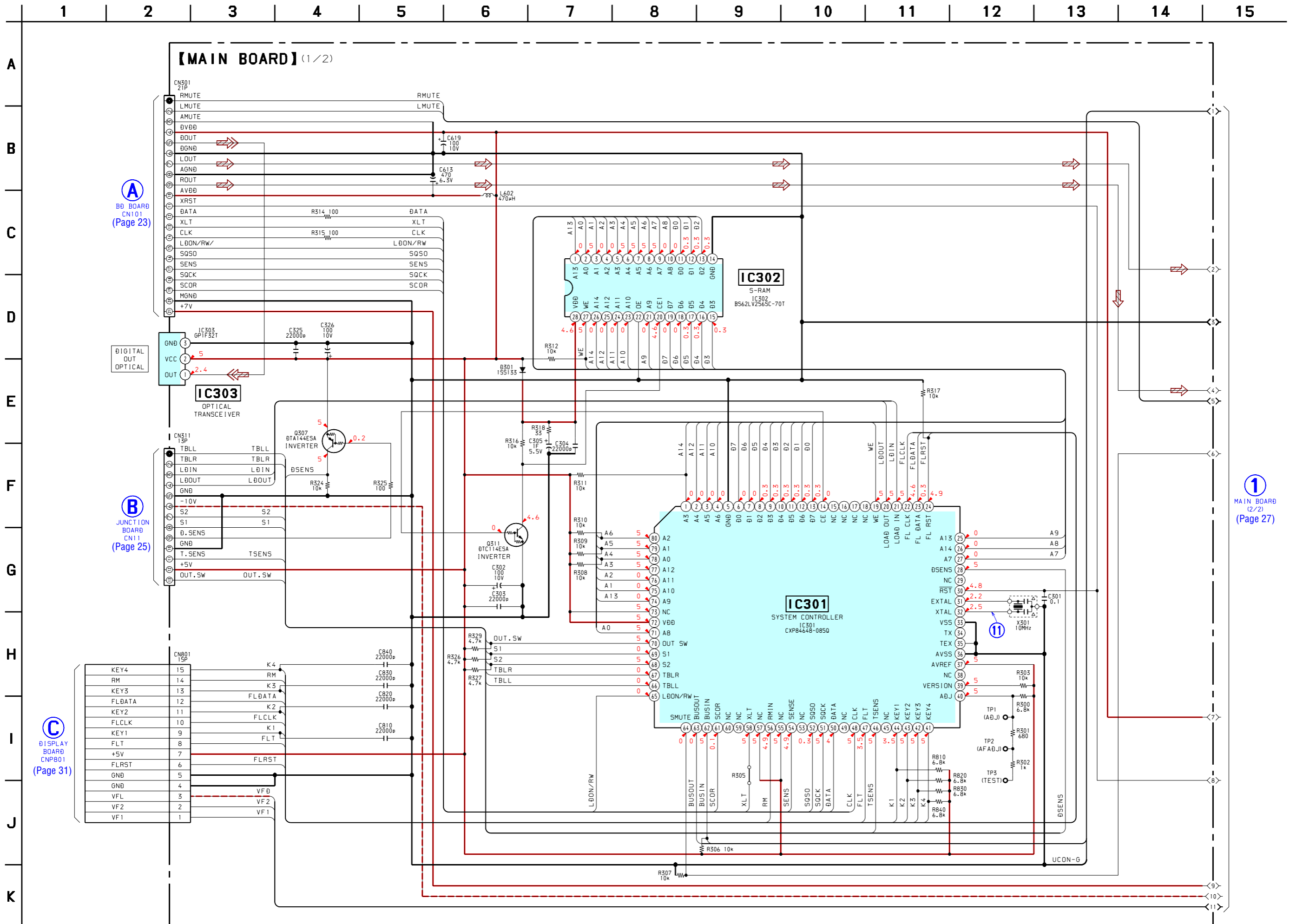
7-4. PRINTED WIRING BOARDS – MOTOR/SENSOR Section – • See page 21 for Circuit Boards Location.





7-5. SCHEMATIC DIAGRAM – MOTOR/SENSOR Section – • See page 29 for IC Block Diagram.



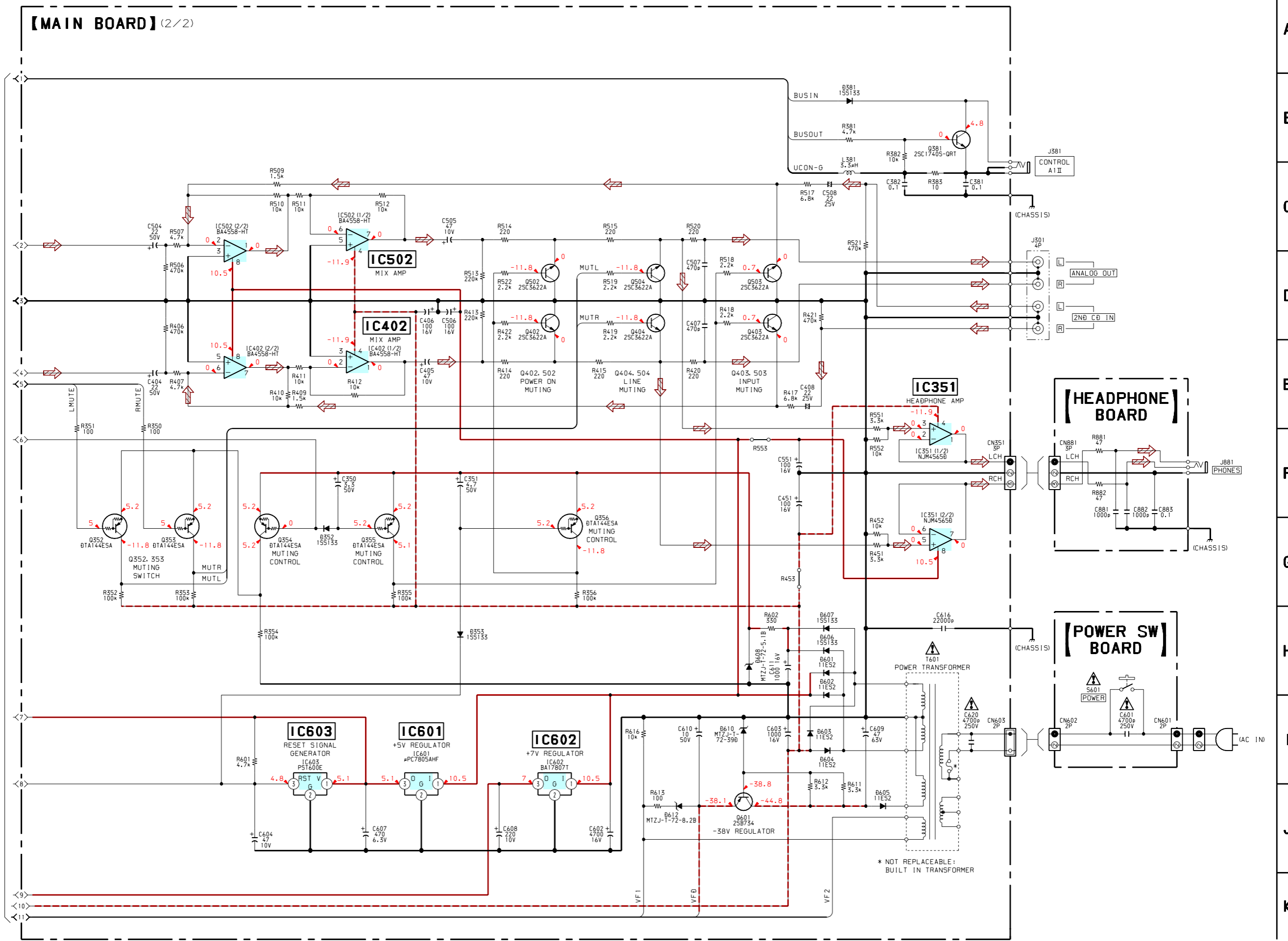


1 MAIN BOARD (2/2) (Page 27)

C DISPLAY BOARD CNP801 (Page 31)

A BD BOARD CN101 (Page 23)

16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

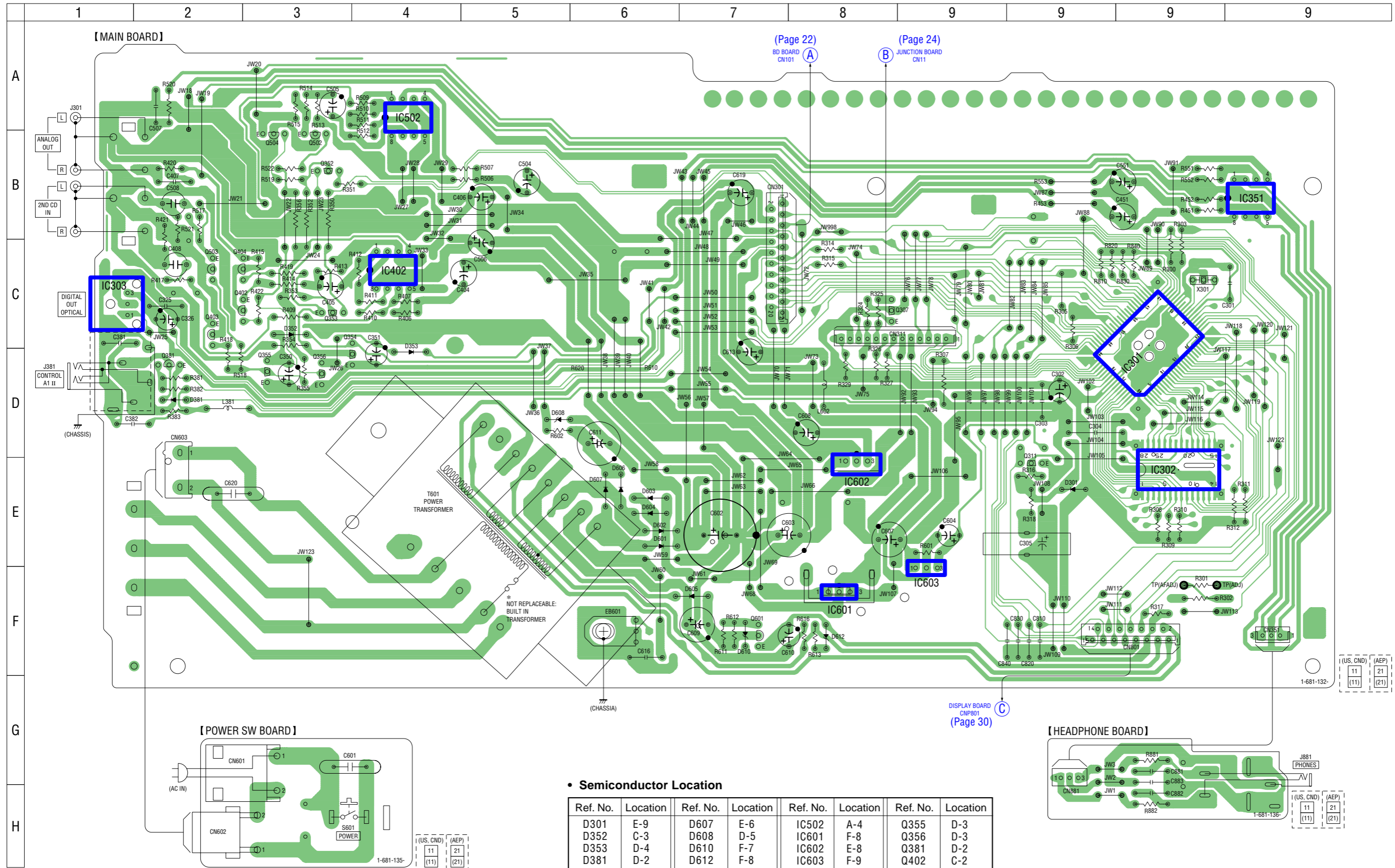


1 MAIN BOARD (1/2) (Page 26)

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

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

7-8. PRINTED WIRING BOARDS – MAIN Section – • See page 21 for Circuit Boards Location.

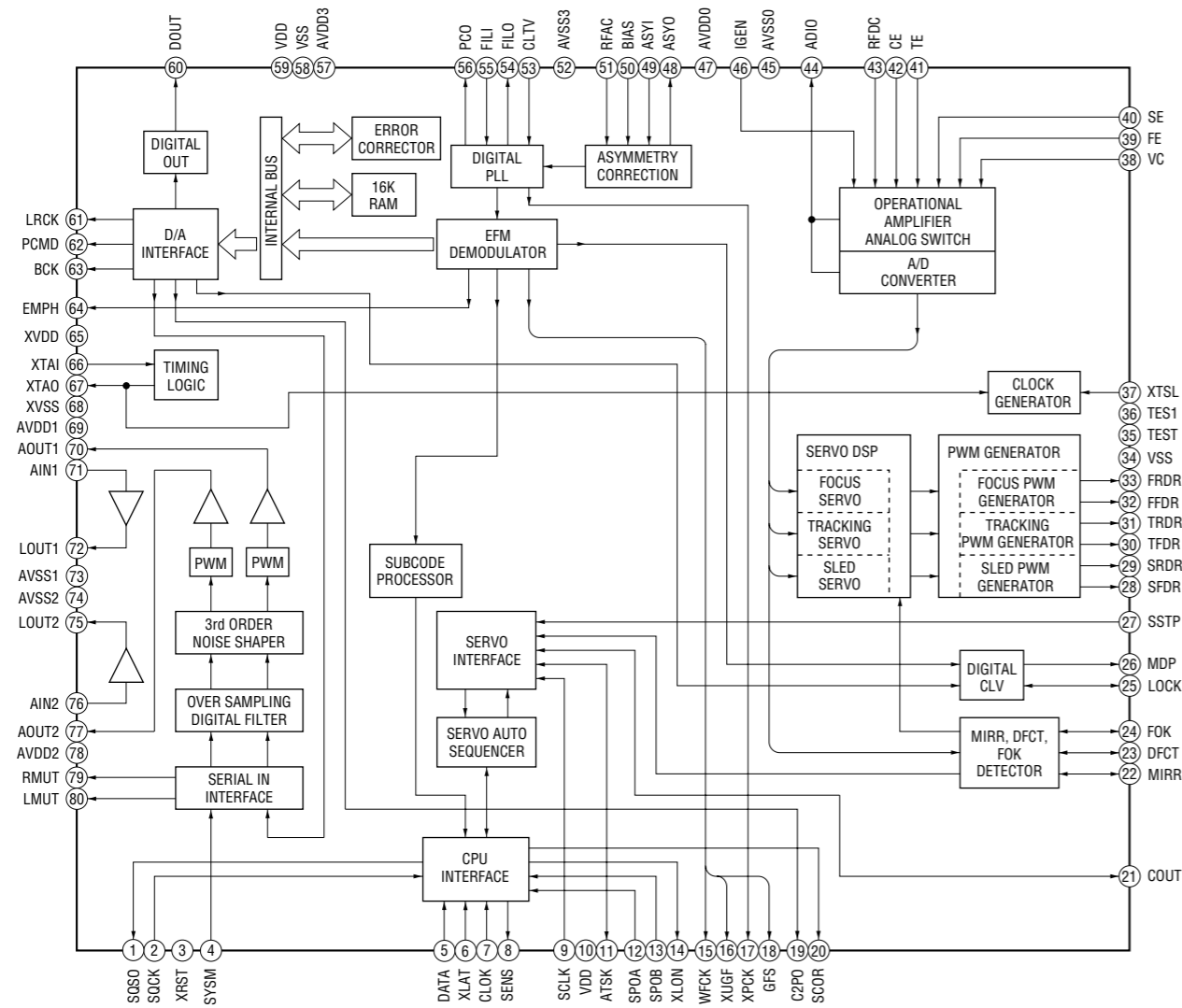


• Semiconductor Location

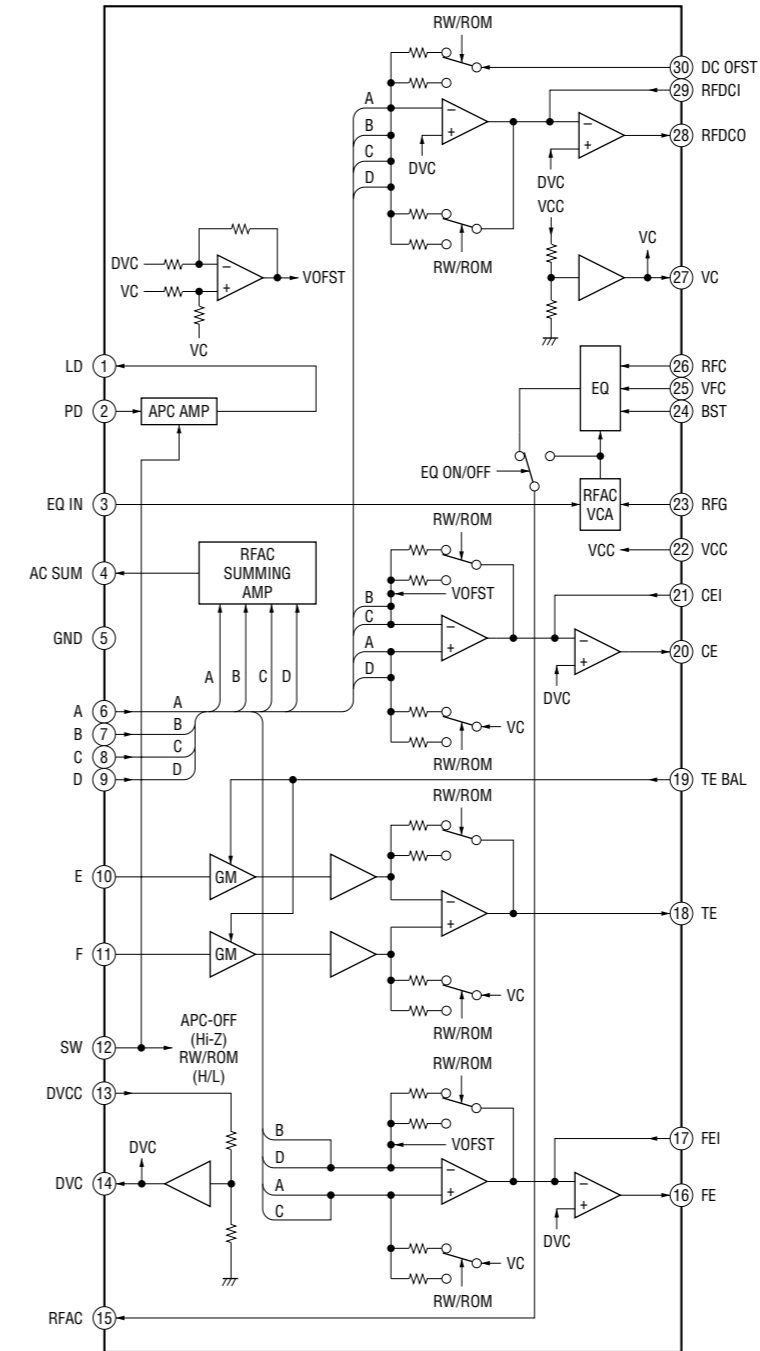
| Ref. No. | Location | Ref. No. | Location | Ref. No. | Location | Ref. No. | Location |
|----------|----------|----------|----------|----------|----------|----------|----------|
| D301     | E-9      | D607     | E-6      | IC502    | A-4      | Q355     | D-3      |
| D352     | C-3      | D608     | D-5      | IC601    | F-8      | Q356     | D-3      |
| D353     | D-4      | D610     | F-7      | IC602    | E-8      | Q381     | D-2      |
| D381     | D-2      | D612     | F-8      | IC603    | F-9      | Q402     | C-2      |
| D601     | E-6      |          |          |          |          | Q403     | C-2      |
| D602     | E-6      | IC301    | D-9      | Q307     | C-8      | Q404     | C-2      |
| D603     | E-6      | IC302    | E-9      | Q311     | E-9      | Q502     | B-3      |
| D604     | E-6      | IC303    | C-1      | Q352     | B-3      | Q503     | C-2      |
| D605     | F-7      | IC351    | B-9      | Q353     | C-3      | Q504     | B-3      |
| D606     | E-6      | IC402    | C-4      | Q354     | D-4      | Q601     | F-7      |

• IC Block Diagrams  
– BD Board –

IC101 CXD2587Q

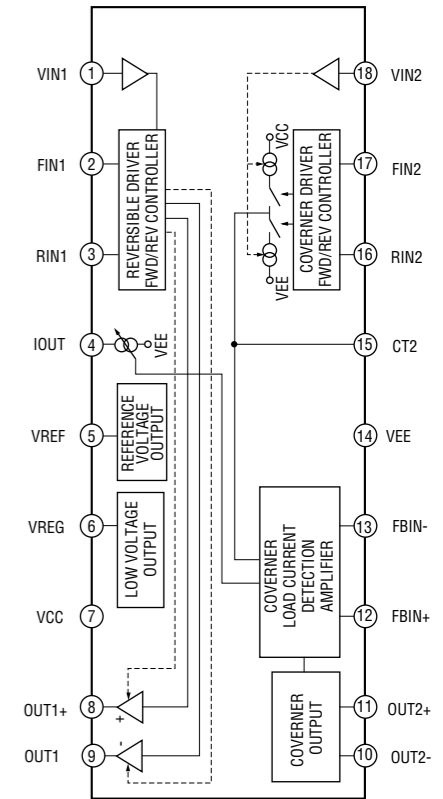


IC131 CXA2581N-T4

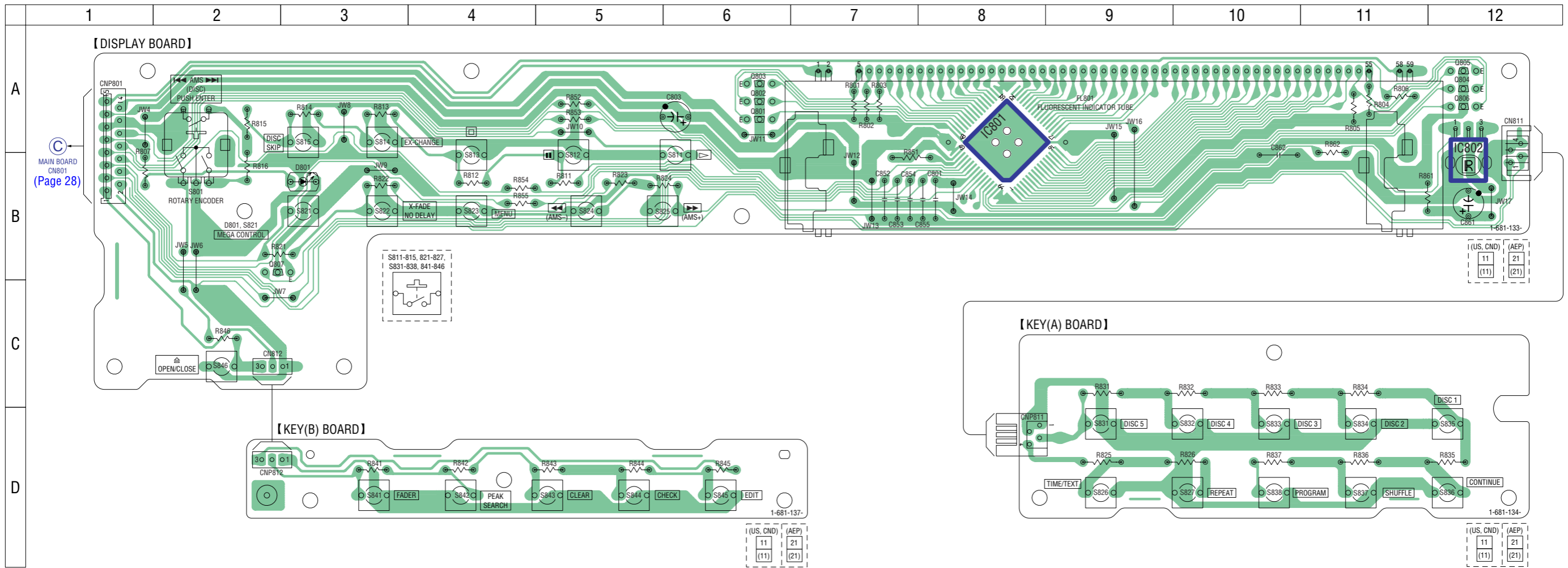


– JUNCTION Board –

IC11 BA6780



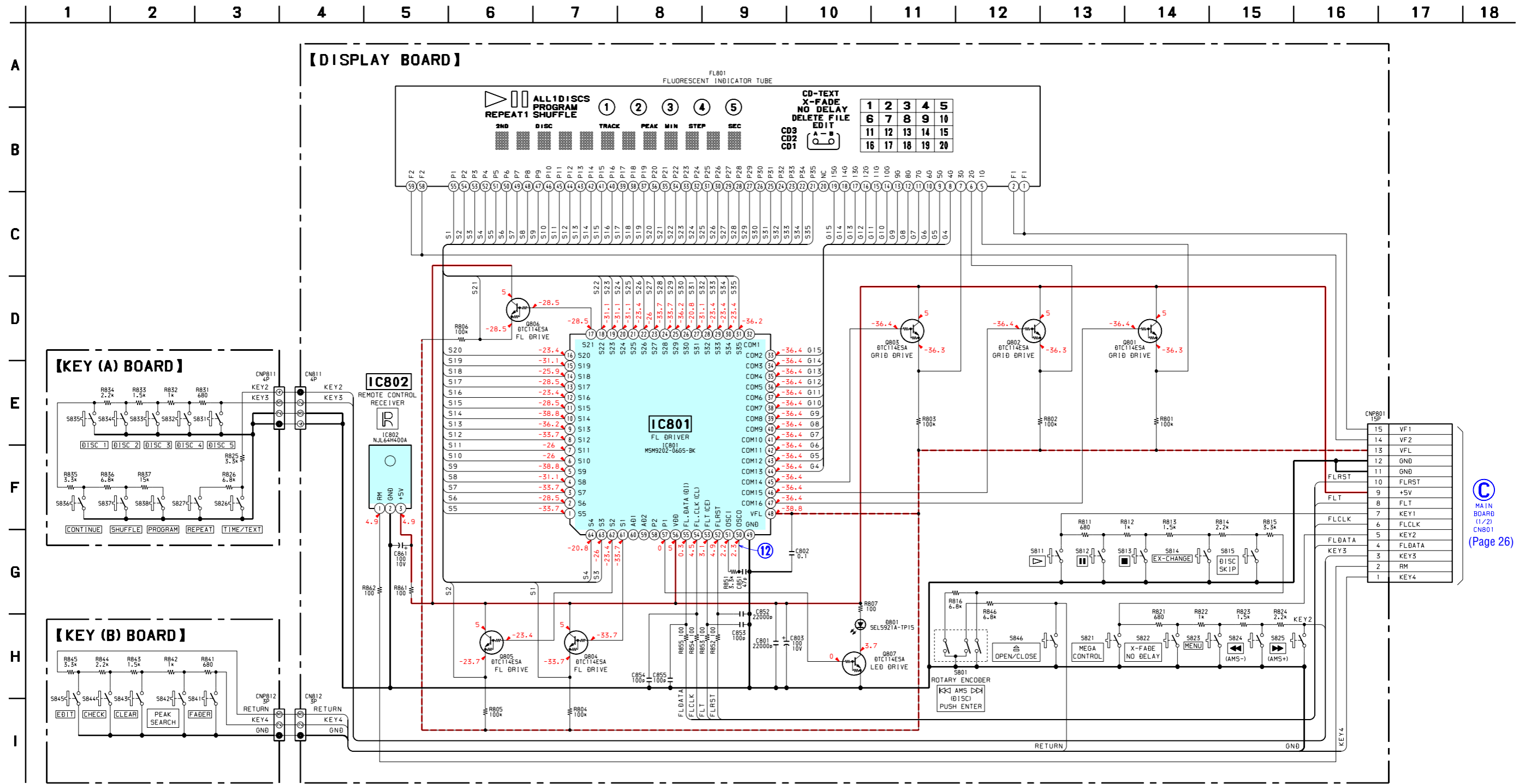
7-9. PRINTED WIRING BOARDS – DISPLAY Section – • See page 21 for Circuit Boards Location.



• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D801     | B-3      |
| IC801    | A-8      |
| IC802    | B-12     |
| Q801     | A-6      |
| Q802     | A-6      |
| Q803     | A-6      |
| Q804     | A-12     |
| Q805     | A-12     |
| Q806     | A-12     |
| Q807     | B-2      |

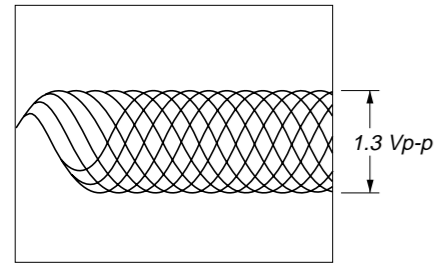
7-10. SCHEMATIC DIAGRAM – DISPLAY Section – • See page 32 for Waveform.



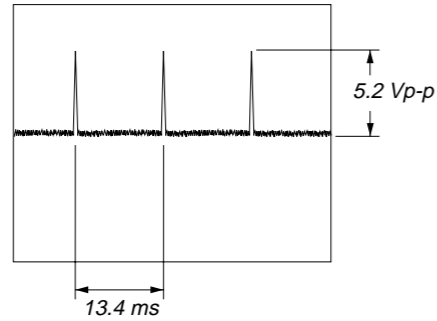
© MAIN BOARD 11/21 CN801 (Page 26)

• Waveforms  
– BD Board –

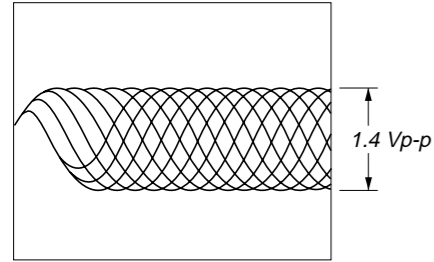
① IC101 ⑤① (RFAC) (CD Play Mode)



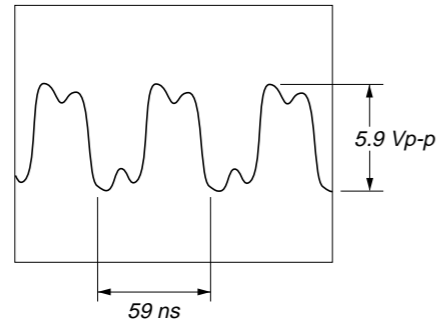
⑥ IC101 ②⑩ (SCOR) (CD Play Mode)



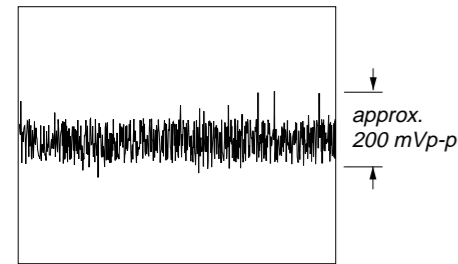
② IC101 ④③ (RFDC) (CD Play Mode)



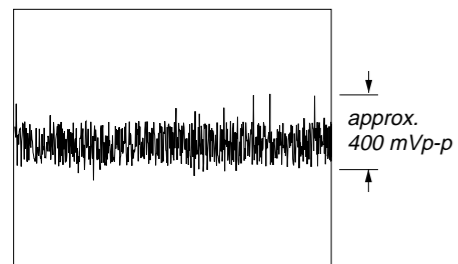
⑦ IC101 ⑥⑦ (XTAO) (CD Play Mode)



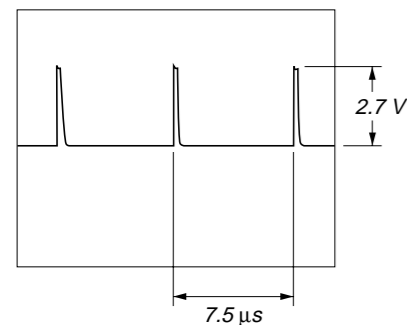
③ IC101 ③⑨ (FE) (CD Play Mode)



④ IC101 ④④ (TE) (CD Play Mode)

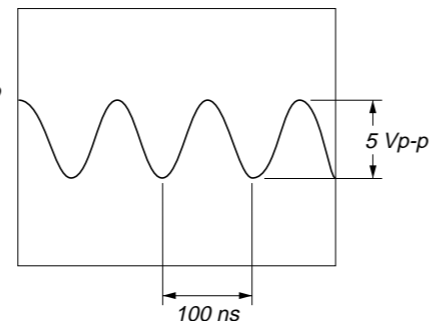


⑤ IC101 ②⑥ (MDP) (CD Play Mode)



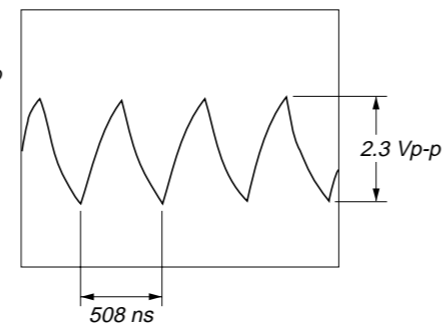
– MAIN Board –

⑪ IC301 ②② (XTAL)



– DISPLAY Board –

⑫ IC801 ⑤⑤ (OSCO)



7-11. IC PIN FUNCTION DESCRIPTION

• BD BOARD IC101 CXD2587Q  
(DIGITAL SIGNAL PROCESSOR, DIGITAL SERVO PROCESSOR, DIGITAL FILTER, D/A CONVERTER)

| Pin No. | Pin Name | I/O | Description  |
|---------|----------|-----|--|
| 1       | SQSO     | O   | Subcode Q data output to the system controller (IC301)   |
| 2       | SQCK     | I   | Subcode Q data reading clock signal input from the system controller (IC301)   |
| 3       | XRST     | I   | System reset signal input from the system controller (IC301) "L": reset  |
| 4       | SYSM     | I   | Analog line muting on/off control signal input terminal "H": line muting on<br>Not used (fixed at "L")                 |
| 5       | DATA     | I   | Command serial data input from the system controller (IC301)   |
| 6       | XLAT     | I   | Command latch pulse input from the system controller (IC301)   |
| 7       | CLOK     | I   | Command serial data transfer clock signal input from the system controller (IC301)                                     |
| 8       | SENS     | O   | Internal status monitor output to the system controller (IC301)  |
| 9       | SCLK     | I   | SENSE serial data reading clock input from the system controller (IC301)   |
| 10      | VDD      | —   | Power supply terminal (+5V) (digital system)   |
| 11      | ATSK     | I/O | Input pin for anti-shock Not used (fixed at "L")   |
| 12      | SPOA     | I   | Microcomputer escape interface input A terminal Not used (fixed at "L")  |
| 13      | SPOB     | I   | Microcomputer escape interface input B terminal Not used (fixed at "L")  |
| 14      | XLON     | O   | Microcomputer escape interface output terminal Not used (open)   |
| 15      | WFCK     | O   | WFCK output terminal Not used (open)   |
| 16      | XUGF     | O   | Not used (open)  |
| 17      | XPCK     | O   | Not used (open)  |
| 18      | GFS      | O   | Not used (open)  |
| 19      | C2PO     | O   | Not used (open)  |
| 20      | SCOR     | O   | Subcode sync (S0+S1) detection signal output to the system controller (IC301)  |
| 21      | COUT     | I/O | Numbers of track counted signal input/output terminal Not used (open)  |
| 22      | MIRR     | I/O | Mirror signal input/output terminal Not used (open)  |
| 23      | DFCT     | I/O | Defect signal input/output terminal Not used (open)  |
| 24      | FOK      | I/O | Focus OK input/output terminal Not used (open)   |
| 25      | LOCK     | I/O | GFS is sampled by 460 Hz "H" when GFS is "H" Not used (open)   |
| 26      | MDP      | O   | Spindle motor (M101) servo drive signal output to the AN48005B (IC150)   |
| 27      | SSTP     | I   | Limit in detect switch (S101) input terminal   |
| 28      | SFDR     | O   | Sled servo drive PWM signal (+) output to the AN48005B (IC150)   |
| 29      | SRDR     | O   | Sled servo drive PWM signal (-) output to the AN48005B (IC150)   |
| 30      | TFDR     | O   | Tracking servo drive PWM signal (+) output to the AN48005B (IC150)   |
| 31      | TRDR     | O   | Tracking servo drive PWM signal (-) output to the AN48005B (IC150)   |
| 32      | FFDR     | O   | Focus servo drive PWM signal (+) output to the AN48005B (IC150)  |
| 33      | FRDR     | O   | Focus servo drive PWM signal (-) output to the AN48005B (IC150)  |
| 34      | VSS      | —   | Ground terminal (digital system)   |
| 35      | TEST     | I   | Input terminal for the test (fixed at "L")   |
| 36      | TES1     | I   | Input terminal for the test (fixed at "L")   |
| 37      | XTSL     | I   | Input terminal for the system clock frequency setting "L": 45.1584 MHz, "H": 22.5792 MHz<br>(fixed at "L" in this set) |
| 38      | VC       | I   | Middle point voltage (+2.5V) input from the CXA2581N (IC131)   |
| 39      | FE       | I   | Focus error signal input from the CXA2581N (IC131)   |
| 40      | SE       | I   | Sled error signal input from the CXA2581N (IC131)  |
| 41      | TE       | I   | Tracking error signal input from the CXA2581N (IC131)  |
| 42      | CE       | I   | Command chip enable signal input from the CXA2581N (IC131)   |



| Pin No. | Pin Name | I/O | Description   |
|---------|----------|-----|---|
| 43      | RFDC     | I   | RF signal input from the CXA2581N (IC131)                               |
| 44      | ADIO     | O   | Monitor output of the A/D converter input signal Not used (open)        |
| 45      | AVSS0    | —   | Ground terminal (digital system)  |
| 46      | IGEN     | I   | Stabilized current input for operational amplifiers                     |
| 47      | AVDD0    | —   | Power supply terminal (+5V) (digital system)                            |
| 48      | ASYO     | O   | Playback EFM full-swing output terminal                                 |
| 49      | ASYI     | I   | Playback EFM asymmetry comparator voltage input terminal                |
| 50      | BIAS     | I   | Playback EFM asymmetry circuit constant current input terminal          |
| 51      | RFAC     | I   | EFM signal input from the CXA2581N (IC131)                              |
| 52      | AVSS3    | —   | Ground terminal (digital system)  |
| 53      | CLTV     | I   | Internal VCO control voltage input of the playback master PLL           |
| 54      | FILO     | O   | Filter output for master clock of the playback master PLL               |
| 55      | FILI     | I   | Filter input for master clock of the playback master PLL                |
| 56      | PCO      | O   | Phase comparison output for master clock of the playback EFM master PLL |
| 57      | AVDD3    | —   | Power supply terminal (+5V) (digital system)                            |
| 58      | VSS      | —   | Ground terminal (digital system)  |
| 59      | VDD      | —   | Power supply terminal (+5V) (digital system)                            |
| 60      | DOUT     | O   | Digital audio signal output to the DIGITAL OUT OPTICAL (IC303)          |
| 61      | LRCK     | O   | L/R sampling clock signal (44.1 kHz) output terminal Not used (open)    |
| 62      | PCMD     | O   | D/A interface serial data output terminal Not used (open)               |
| 63      | BCK      | O   | Bit clock signal (2.8224 MHz) output terminal Not used (open)           |
| 64      | EMPH     | O   | De-emphasis control signal output terminal Not used (open)              |
| 65      | XVDD     | —   | Power supply terminal (+5V) (crystal oscillator system)                 |
| 66      | XTAI     | I   | System clock input terminal (16.9344 MHz)                               |
| 67      | XTAO     | O   | System clock output terminal (16.9344 MHz)                              |
| 68      | XVSS     | —   | Ground terminal (crystal oscillator system)                             |
| 69      | AVDD1    | —   | Power supply terminal (+5V) (analog system)                             |
| 70      | AOUT1    | O   | L-ch analog audio signal output terminal                                |
| 71      | AIN1     | I   | L-ch operational amplifiers input terminal                              |
| 72      | LOUT1    | O   | L-ch line output terminal   |
| 73      | AVSS1    | —   | Ground terminal (analog system)   |
| 74      | AVSS2    | —   | Ground terminal (analog system)   |
| 75      | LOUT2    | O   | R-ch line output terminal   |
| 76      | AIN2     | I   | R-ch operational amplifiers input terminal                              |
| 77      | AOUT2    | O   | R-ch analog audio signal output terminal                                |
| 78      | AVDD2    | —   | Power supply terminal (+5V) (analog system)                             |
| 79      | RMUT     | O   | R-ch line muting on/off control signal output terminal                  |
| 80      | LMUT     | O   | L-ch line muting on/off control signal output terminal                  |

• MAIN BOARD IC301 CXP84648-085Q (SYSTEM CONTROLLER)

| Pin No.  | Pin Name                | I/O | Description   |
|----------|-------------------------|-----|---|
| 1 to 4   | A3 to A6                | O   | Address signal output to the static RAM (IC302)   |
| 5        | GND                     | —   | Ground terminal   |
| 6 to 13  | D0 to D7                | I/O | Two-way data bus with the static RAM (IC302)  |
| 14       | CE                      | O   | Chip select signal output to the static RAM (IC302)   |
| 15 to 18 | NC                      | —   | Not used (open)   |
| 19       | WE                      | O   | Write enable signal output to the static RAM (IC302)  |
| 20       | LOAD OUT                | O   | Loading motor (M10) drive signal output to the BA6780 (IC11)  |
| 21       | LOAD IN                 | O   | Loading motor (M10) drive signal output to the BA6780 (IC11)  |
| 22       | FL CLK                  | O   | Serial data transfer clock signal output to the FL driver (IC801)   |
| 23       | FL DATA                 | O   | Serial data output to the FL driver (IC801)   |
| 24       | FL RST                  | O   | Reset signal output to the FL driver (IC801)  |
| 25 to 27 | A13, A14, A7            | O   | Address signal output to the static RAM (IC302)   |
| 28       | DSSENS                  | I   | Detect signal input from the disc sensor (D11)  |
| 29       | NC                      | —   | Not used (open)   |
| 30       | $\overline{\text{RST}}$ | I   | System reset signal input from the reset signal generator (IC603) “L”: reset<br>For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H” |
| 31       | EXTAL                   | I   | Main system clock input terminal (10 MHz)   |
| 32       | XTAL                    | O   | Main system clock output terminal (10 MHz)  |
| 33       | VSS                     | —   | Ground terminal   |
| 34       | TX                      | O   | Sub system clock output terminal Not used (open)  |
| 35       | TEX                     | I   | Sub system clock input terminal Not used (fixed at “L”)   |
| 36       | AVSS                    | —   | Ground terminal (for A/D converter)   |
| 37       | AVREF                   | I   | Reference voltage input terminal (+5V)  |
| 38       | NC                      | —   | Not used (open)   |
| 39       | VERSION                 | I   | Model Destination setting terminal  |
| 40       | ADJ                     | I   | Setting terminal for the test mode  |
| 41       | KEY4                    | I   | Key input terminal (A/D input) (S941 to S845) FADER, PEAK SEARCH, CLEAR, CHECK, EDIT keys input   |
| 42       | KEY3                    | I   | Key input terminal (A/D input) (S831 to S838) DISC 5, DISC 4, DISC 3, DISC 2, DISC 1, CONTINUE, SHUFFLE, PROGRAM keys input   |
| 43       | KEY2                    | I   | Key input terminal (A/D input) (S821 to S827) MEGA CONTROL, X-FADER NO DELAY, MENU, ◀◀ (AMS-), ▶▶ (AMS+), TIME/TEXT, REPEAT keys input  |
| 44       | KEY1                    | I   | Rotary encoder key input terminal (A/D input) (S801, S811 to S815) ◀◀ AMS ▶▶ (DISC) PUSH ENTER, ▷, ■, □, EX-CHANGE, DISC SKIP keys input                                      |
| 45       | NC                      | —   | Not used (open)   |
| 46       | TSSENS                  | I   | Detect signal input from the table sensor (D10)   |
| 47       | FLT                     | O   | Serial data latch pulse output to the FL driver (IC801)   |
| 48       | CLK                     | O   | Serial data transfer clock signal output to the CXD2587Q (IC101)  |
| 49       | NC                      | O   | Not used (open)   |
| 50       | DATA                    | O   | Serial data output to the CXD2587Q (IC101)  |
| 51       | SQCK                    | O   | Sub-code Q data reading clock signal output to the CXD2587Q (IC101)   |
| 52       | SQSO                    | I   | Sub-code Q data signal input from the CXD2587Q (IC101)  |
| 53       | NC                      | —   | Not used (open)   |
| 54       | SENSE                   | I   | Internal status (SENSE) signal input from the CXD2587Q (IC101)  |
| 55       | NC                      | I   | Not used (fixed at “H”)   |
| 56       | RMIN                    | I   | Remote control signal input from the remote control receiver (IC802)  |

| Pin No.  | Pin Name               | I/O | Description   |
|----------|------------------------|-----|---|
| 57       | NC                     | I   | Not used (fixed at "H")   |
| 58       | XLT                    | O   | Serial data latch pulse signal output to the CXD2587Q (IC101)           |
| 59, 60   | NC                     | —   | Not used (open)   |
| 61       | SCOR                   | I   | Sub-code sync (S0+S1) detection signal input from the CXD2587Q (IC101)  |
| 62       | BUSIN                  | I   | Sircs remote control signal input from the CONTROL AIII                 |
| 63       | BUSOUT                 | O   | Sircs remote control signal output to the CONTROL AIII                  |
| 64       | SMUTE                  | O   | Muting on/off control signal output terminal "H" active                 |
| 65       | LDON/RW                | O   | Laser power control signal output to the CXA2581N (IC131) "H" active    |
| 66       | TBLL                   | O   | Table motor drive signal (counterclockwise) output to the BA6780 (IC11) |
| 67       | TBLR                   | O   | Table motor drive signal (clockwise) output to the BA6780 (IC11)        |
| 68, 69   | S2, S1                 | I   | Detect signal input from the table address detect switch (S200)         |
| 70       | OUT SW                 | I   | Detect signal input from the open/close detect switch (S11)             |
| 71       | A8                     | O   | Address signal output to the static RAM (IC302)                         |
| 72       | VDD                    | —   | Power supply terminal (+5V)   |
| 73       | NC                     | —   | Not used (fixed at "H")   |
| 74 to 80 | A9 to A12,<br>A0 to A2 | O   | Address signal output to the static RAM (IC302)                         |

## SECTION 8 EXPLODED VIEWS

**NOTE:**

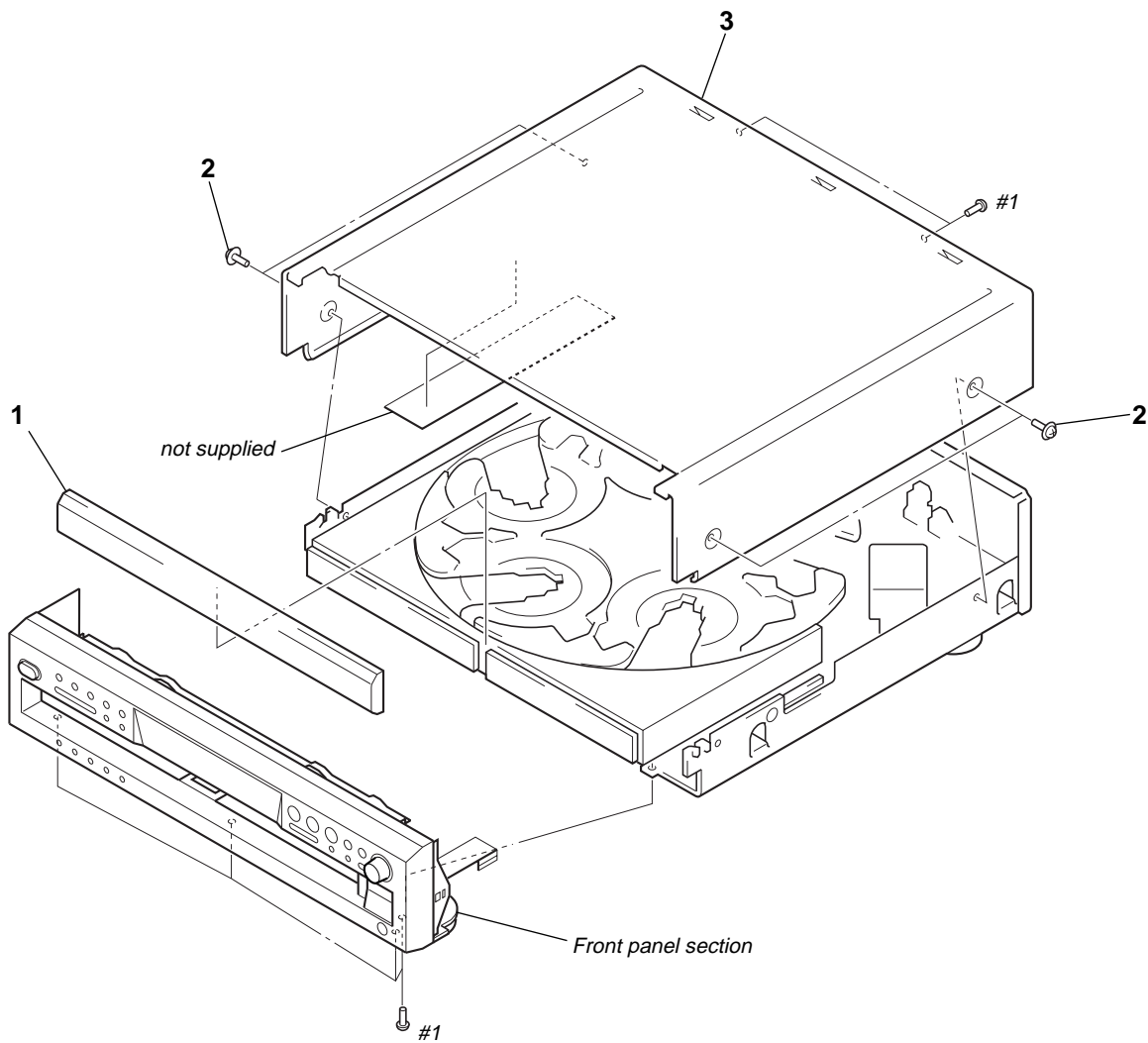
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts  
Example:  
KNOB, BALANCE (WHITE) . . . (RED)  
  ↑  ↑  
  Parts Color Cabinet's Color

- 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.
- Accessories and packing materials are given in the last of the electrical parts list.
- Abbreviation  
CND: Canadian model

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

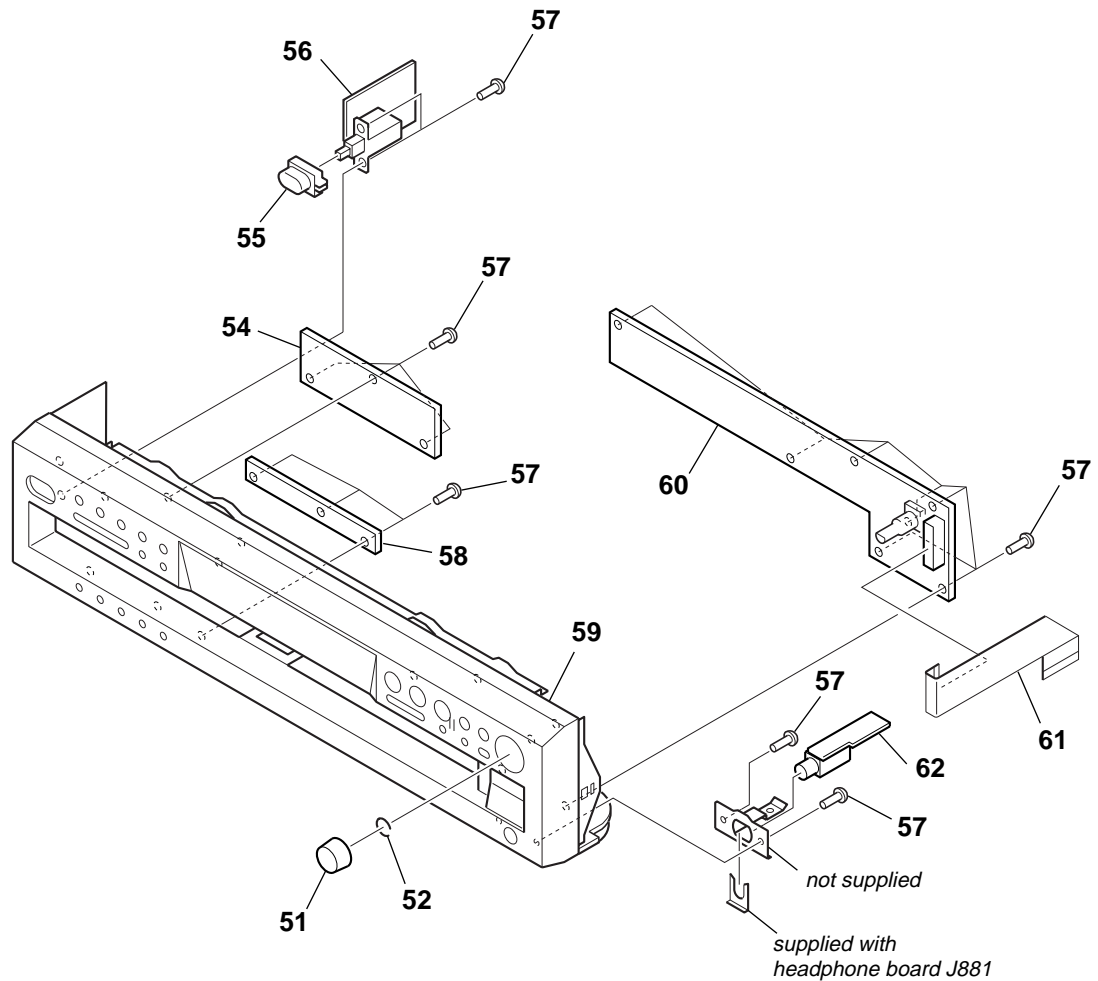
Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**8-1. CASE SECTION**



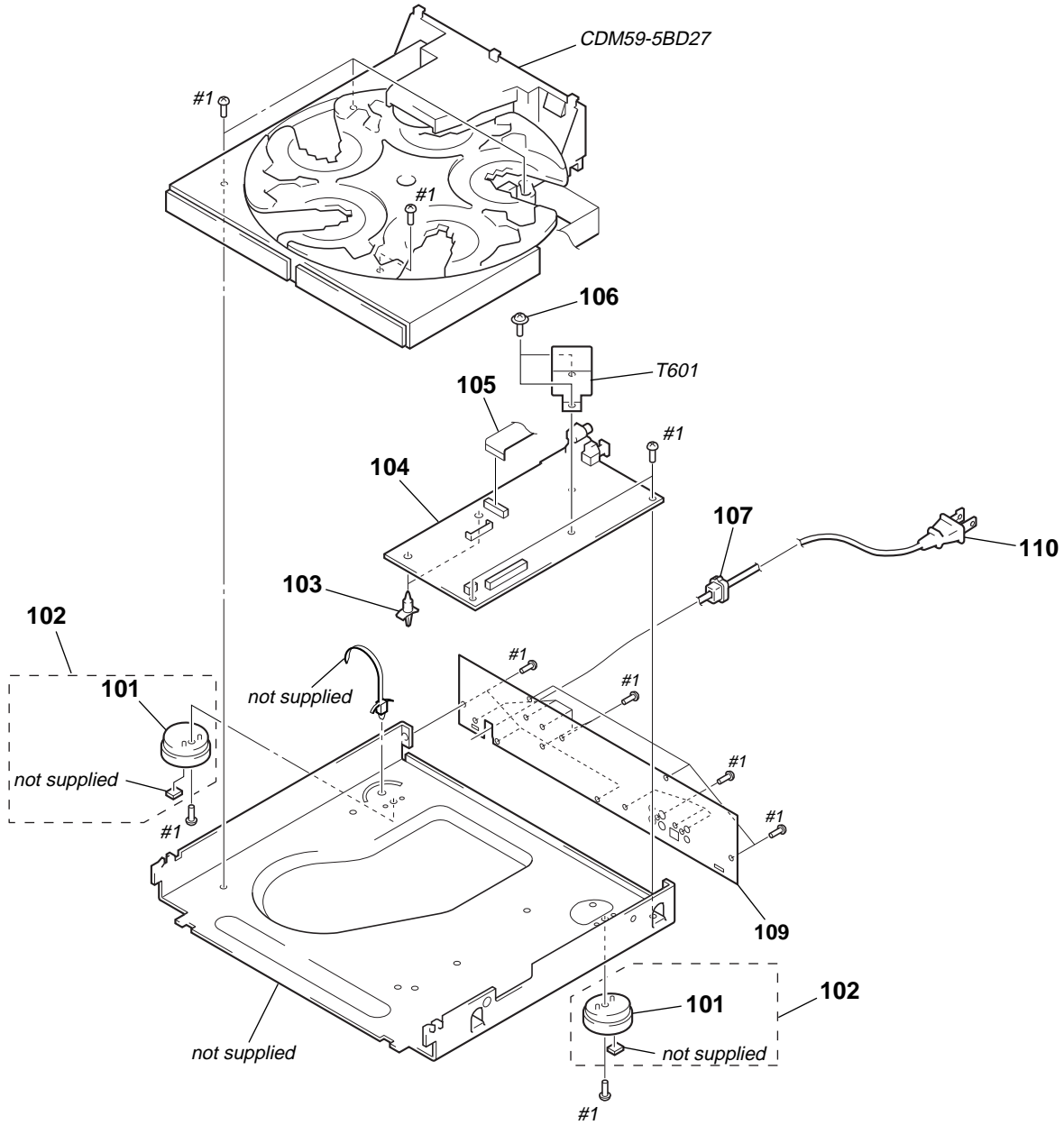
| Ref. No. | Part No.     | Description        | Remark | Ref. No. | Part No.     | Description               | Remark |
|----------|--------------|--------------------|--------|----------|--------------|---------------------------|--------|
| 1        | 4-231-683-11 | PANEL, LOADING     |        | 3        | 4-231-686-11 | CASE (409538)             |        |
| 2        | 4-210-291-01 | SCREW (CASE 3 TP2) |        | #1       | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S |        |

8-2. FRONT PANEL SECTION



| Ref. No. | Part No.     | Description              | Remark | Ref. No. | Part No.     | Description                 | Remark |
|----------|--------------|--------------------------|--------|----------|--------------|-----------------------------|--------|
| 51       | 4-231-928-01 | KNOB (AMS)               |        | 58       | 1-681-137-21 | KEY (B) BOARD (AEP)         |        |
| 52       | 3-354-981-11 | SPRING (SUS), RING       |        | 59       | X-4953-512-1 | PANEL ASSY, FRONT (US, CND) |        |
| 54       | 1-681-134-11 | KEY (A) BOARD (US, CND)  |        | 59       | X-4953-521-1 | PANEL ASSY, FRONT (AEP)     |        |
| 54       | 1-681-134-21 | KEY (A) BOARD (AEP)      |        | 60       | A-4476-754-A | DISPLAY BOARD (US, CND)     |        |
| 55       | 4-231-973-01 | BUTTON (POWER)           |        | 60       | A-4476-660-A | DISPLAY BOARD (AEP)         |        |
| 56       | 1-681-135-11 | POWER SW BOARD (US, CND) |        | 61       | 1-757-649-11 | WIRE (FLAT TYPE) (15 CORE)  |        |
| 56       | 1-681-135-21 | POWER SW BOARD (AEP)     |        | 62       | 1-681-136-11 | HEADPHONE BOARD (US, CND)   |        |
| 57       | 4-951-620-01 | SCREW (2.6X8), +BVTP     |        | 62       | 1-681-136-21 | HEADPHONE BOARD (AEP)       |        |
| 58       | 1-681-137-11 | KEY (B) BOARD (US, CND)  |        |          |              |                             |        |

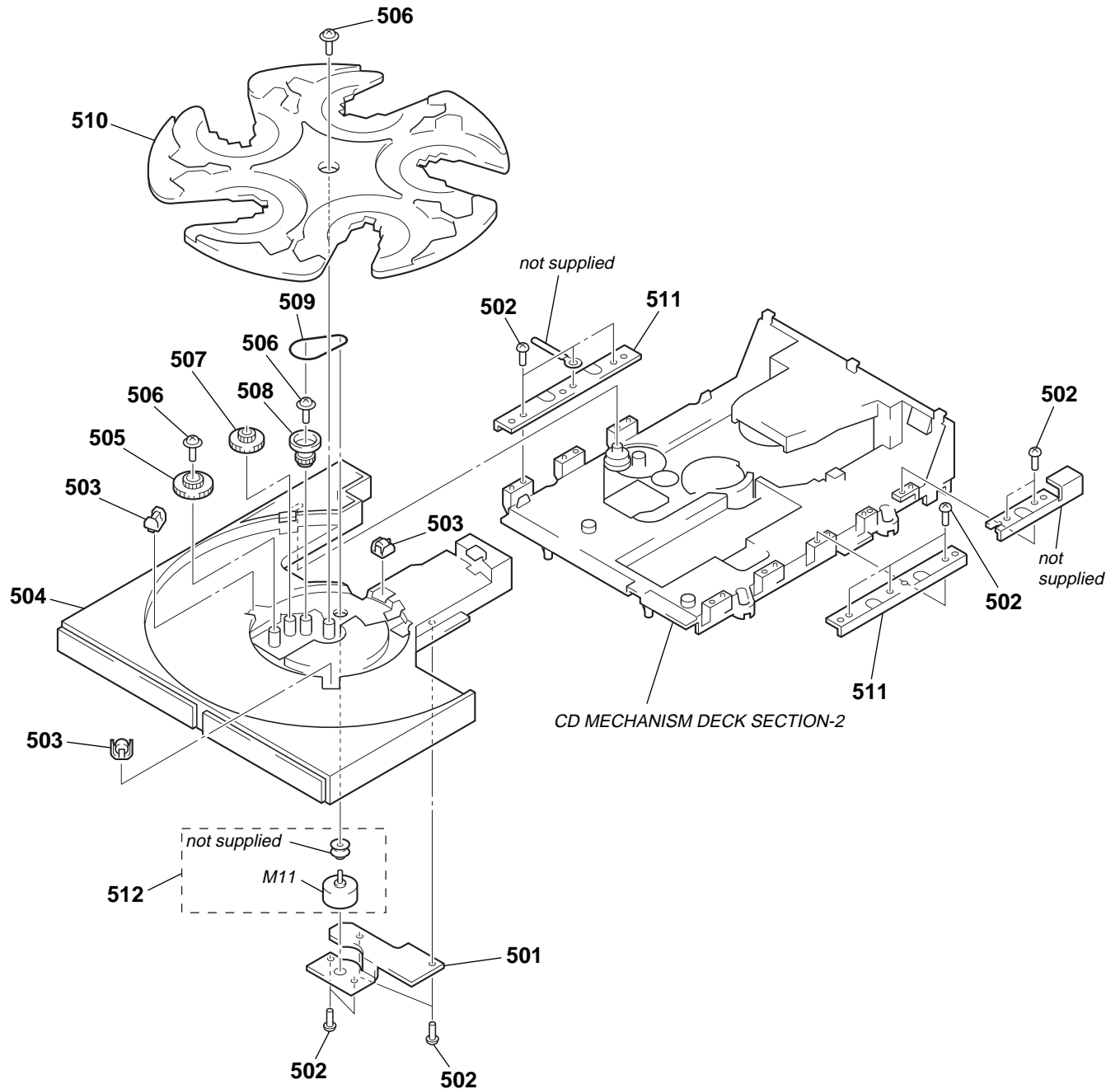
8-3. CHASSIS SECTION



|   |   |
|---|---|
| <p>The components identified by mark <math>\Delta</math> or dotted line with mark <math>\Delta</math> are critical for safety. Replace only with part number specified.</p> | <p>Les composants identifiés par une marque <math>\Delta</math> sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p> |
|---|---|

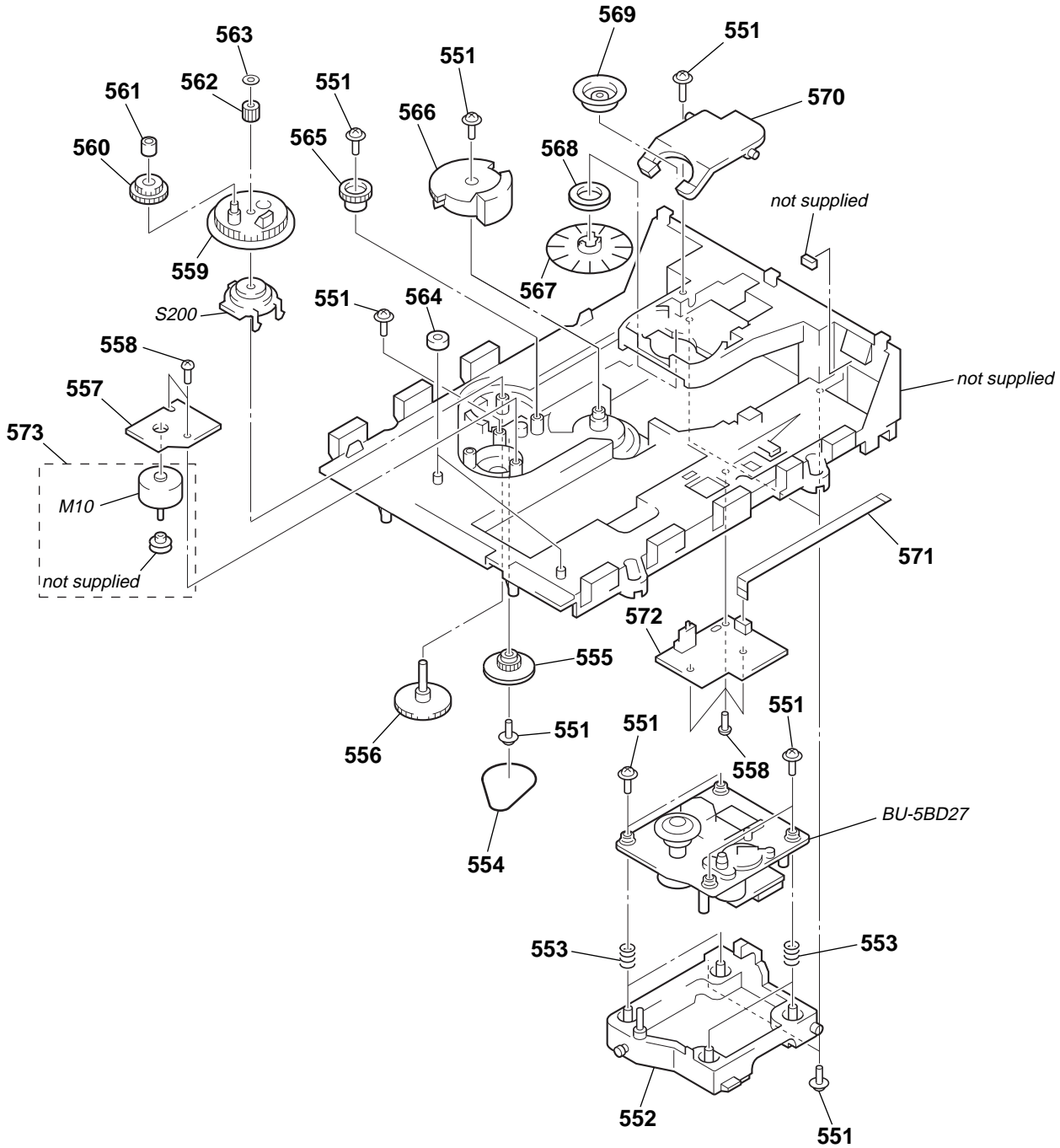
| Ref. No. | Part No.     | Description                    | Remark | Ref. No.      | Part No.     | Description                  | Remark |
|----------|--------------|--------------------------------|--------|---------------|--------------|------------------------------|--------|
| 101      | 4-232-237-01 | FOOT (DIA. 30)                 |        | 109           | 4-233-720-01 | PANEL, BACK (US)             |        |
| 102      | X-4953-448-1 | FOOT ASSY                      |        | 109           | 4-233-720-11 | PANEL, BACK (CND)            |        |
| 103      | 4-943-687-01 | HOLDER, BOARD                  |        | 109           | 4-233-720-21 | PANEL, BACK (AEP)            |        |
| 104      | A-4725-582-A | MAIN BOARD, COMPLETE (US, CND) |        | $\Delta$ 110  | 1-575-651-21 | CORD, POWER (AEP)            |        |
| 104      | A-4725-593-A | MAIN BOARD, COMPLETE (AEP)     |        | $\Delta$ 110  | 1-783-531-31 | CORD, POWER (US, CND)        |        |
| 105      | 1-757-648-11 | WIRE (FLAT TYPE) (21 CORE)     |        | $\Delta$ T601 | 1-435-342-11 | TRANSFORMER, POWER (US, CND) |        |
| 106      | 3-703-249-01 | SCREW, S TIGHT, +PTTWH 3X6     |        | $\Delta$ T601 | 1-435-343-11 | TRANSFORMER, POWER (AEP)     |        |
| 107      | 3-703-244-21 | BUSHING (2104), CORD           |        | #1            | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S    |        |

8-4. CD MECHANISM DECK SECTION-1  
(CDM59-5BD27)



| Ref. No. | Part No.     | Description                   | Remark | Ref. No. | Part No.     | Description               | Remark |
|----------|--------------|-------------------------------|--------|----------|--------------|---------------------------|--------|
| 501      | 1-676-245-11 | SENSOR BOARD                  |        | 508      | 4-224-615-03 | GEAR (RM-B)               |        |
| 502      | 4-218-253-31 | SCREW (M2.6), +BTTP           |        | 509      | 4-225-328-01 | BELT (ROTARY)             |        |
| * 503    | X-4924-457-1 | ROLLER ASSY                   |        | 510      | 4-224-603-01 | TRAY                      |        |
| 504      | 4-224-602-01 | TABLE                         |        | 511      | 4-224-619-01 | BRACKET (GUIDE)           |        |
| 505      | 4-224-617-01 | GEAR (RM-E)                   |        | 512      | A-4672-867-A | MOTOR ASSY, ROTARY (TRAY) |        |
| 506      | 4-985-672-01 | SCREW (+PTPWH M2.6), FLOATING |        | M11      | 1-541-632-12 | MOTOR, DC (TRAY)          |        |
| 507      | 4-224-616-01 | GEAR (RM-M)                   |        |          |              |                           |        |

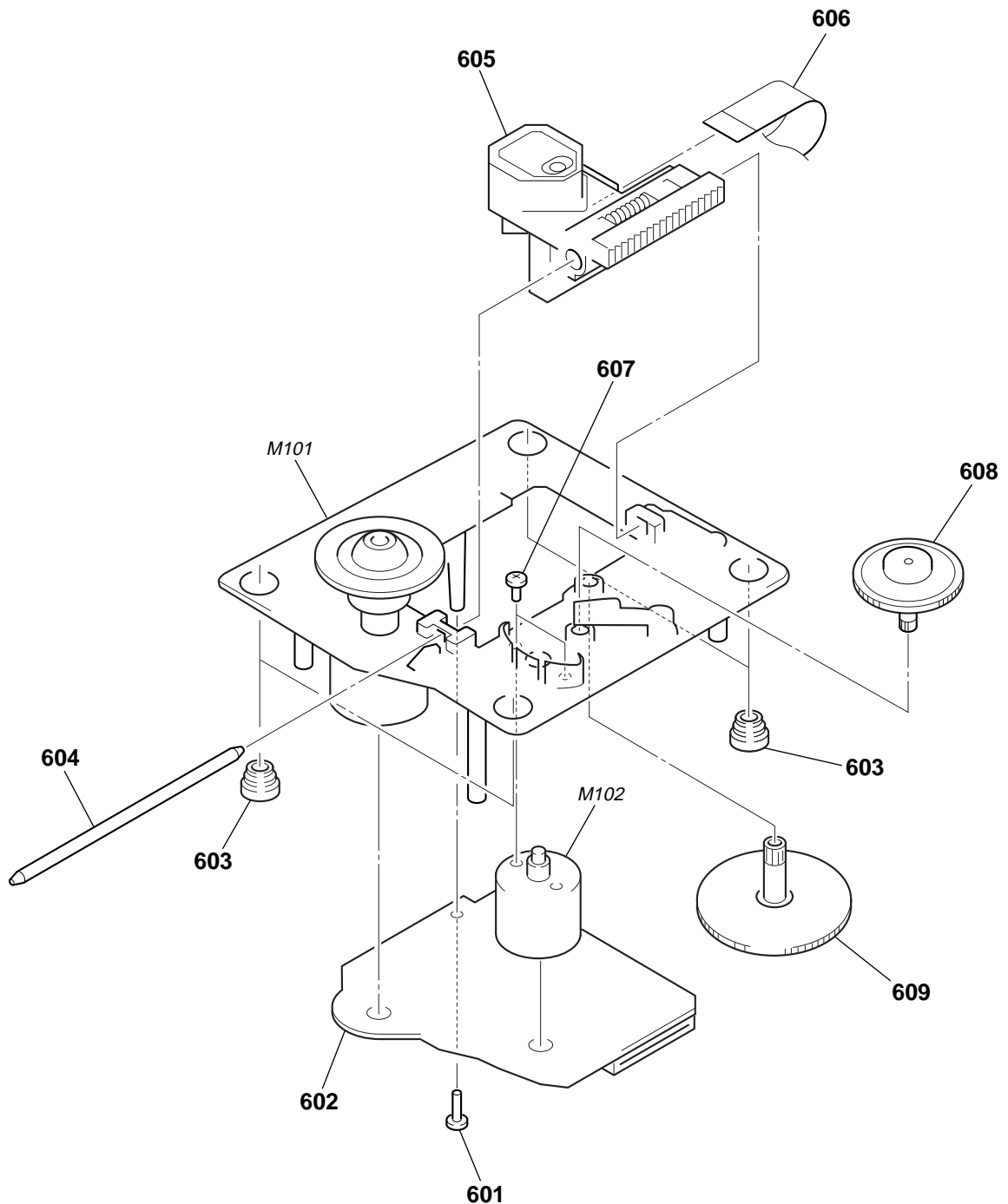
8-5. CD MECHANISM DECK SECTION-2  
(CDM59-5BD27)



| Ref. No. | Part No.     | Description                   | Remark | Ref. No. | Part No.     | Description               | Remark                     |
|----------|--------------|-------------------------------|--------|----------|--------------|---------------------------|----------------------------|
| 551      | 4-985-672-01 | SCREW (+PTPWH M2.6), FLOATING |        | * 564    | 4-951-619-01 | CUSHION (A)               |                            |
| 552      | X-4952-312-1 | HOLDER (BU) ASSY              |        | 565      | 4-224-606-01 | GEAR (RV)                 |                            |
| 553      | 4-959-996-01 | SPRING (932), COMPRESSION     |        | 566      | 4-224-605-01 | GEAR (U/D)                |                            |
| 554      | 4-225-885-01 | BELT (LOADING)                |        | 567      | X-4952-019-2 | PULLEY (A) ASSY, CHUCKING |                            |
| 555      | 4-225-844-01 | GEAR (LOADING A)              |        | 568      | 1-471-061-11 | MAGNET ASSY               |                            |
| 556      | 4-224-613-01 | GEAR (SHAFT)                  |        | 569      | 4-221-688-01 | PULLEY (B), CHUCKING      |                            |
| 557      | 1-676-244-11 | LOADING MOTOR BOARD           |        | 570      | 4-224-618-01 | LEVER (LIFTER)            |                            |
| 558      | 4-218-253-31 | SCREW (M2.6), +BTTP           |        | 571      | 1-791-930-11 | WIRE (FLAT TYPE) (6 CORE) |                            |
| 559      | 4-224-607-01 | GEAR, SWING                   |        | 572      | 1-676-246-11 | JUNCTION BOARD            |                            |
| 560      | 4-224-609-01 | GEAR (LOADING C)              |        | 573      | A-4672-879-A | MOTOR ASSY, LOADING       |                            |
| 561      | 4-224-608-01 | COLLAR, SWING                 |        | M10      | 1-541-632-12 | MOTOR, DC (LOADING)       |                            |
| 562      | 4-224-611-01 | GEAR (LOADING B)              |        | S200     | 1-418-746-11 | ENCODER, ROTARY           | (BU, TABLE ADDRESS DETECT) |
| 563      | 3-016-533-01 | WASHER (FR), STOPPER          |        |          |              |                           |                            |



8-6. BASE UNIT SECTION  
(BU-5BD27)



|   |  |
|---|--|
| <p>The components identified by mark <math>\triangle</math> or dotted line with mark <math>\triangle</math> are critical for safety. Replace only with part number specified.</p> | <p>Les composants identifiés par une marque <math>\triangle</math> sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p> |
|---|--|

| Ref. No.        | Part No.     | Description                | Remark | Ref. No. | Part No.     | Description          | Remark |
|-----------------|--------------|----------------------------|--------|----------|--------------|----------------------|--------|
| 601             | 4-951-620-01 | SCREW (2.6X8), +BVTP       |        | 607      | 3-713-786-51 | SCREW +P 2X3         |        |
| 602             | A-4725-568-A | BD BOARD, COMPLETE         |        | 608      | 4-917-567-01 | GEAR (M)             |        |
| 603             | 4-951-940-01 | INSULATOR (BU)             |        | 609      | 4-917-564-01 | GEAR (P), FLATNESS   |        |
| 604             | 4-917-565-01 | SHAFT, SLED                |        | M101     | X-4917-523-3 | MOTOR ASSY (SPINDLE) |        |
| $\triangle$ 605 | 1-796-033-11 | OPTICAL PICK-UP (PXR-104X) |        | M102     | X-4917-504-1 | MOTOR ASSY (SLED)    |        |
| 606             | 1-782-817-11 | WIRE (FLAT TYPE) (16 CORE) |        |          |              |                      |        |

**BD**

**SECTION 9  
ELECTRICAL PARTS LIST**

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -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
- Abbreviation  
CND : Canadian model

- 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:  $\mu$ , for example:  
uA. . :  $\mu$ A. .      uPA. . :  $\mu$ PA. .  
uPB. . :  $\mu$ PB. .    uPC. . :  $\mu$ PC. .  
uPD. . :  $\mu$ PD. .
- **CAPACITORS**  
uF:  $\mu$ F
- **COILS**  
uH:  $\mu$ H

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

Les composants identifiés par une marque  $\Delta$  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.

| Ref. No. | Part No.     | Description                    | Remark        | Ref. No. | Part No. | Description | Remark |
|----------|--------------|--------------------------------|---------------|----------|----------|-------------|--------|
|          | A-4725-568-A | BD BOARD, COMPLETE<br>*****    |               |          |          |             |        |
|          |              | < CAPACITOR >                  |               |          |          |             |        |
| C101     | 1-164-315-11 | CERAMIC CHIP                   | 470PF         | 5%       | 50V      |             |        |
| C102     | 1-164-156-11 | CERAMIC CHIP                   | 0.1uF         |          | 25V      |             |        |
| C103     | 1-164-315-11 | CERAMIC CHIP                   | 470PF         | 5%       | 50V      |             |        |
| C110     | 1-126-206-11 | ELECT CHIP                     | 100uF         | 20%      | 6.3V     |             |        |
| C111     | 1-164-156-11 | CERAMIC CHIP                   | 0.1uF         |          | 25V      |             |        |
| C112     | 1-164-156-11 | CERAMIC CHIP                   | 0.1uF         |          | 25V      |             |        |
| C120     | 1-164-156-11 | CERAMIC CHIP                   | 0.1uF         |          | 25V      |             |        |
| C121     | 1-162-970-11 | CERAMIC CHIP                   | 0.01uF        | 10%      | 25V      |             |        |
| C122     | 1-117-863-11 | CERAMIC CHIP                   | 0.47uF        | 10%      | 6.3V     |             |        |
| C123     | 1-162-927-11 | CERAMIC CHIP                   | 100PF         | 5%       | 50V      |             |        |
| C124     | 1-162-967-11 | CERAMIC CHIP                   | 0.0033uF      | 10%      | 50V      |             |        |
| C125     | 1-162-965-11 | CERAMIC CHIP                   | 0.0015uF      | 10%      | 50V      |             |        |
| C126     | 1-107-826-11 | CERAMIC CHIP                   | 0.1uF         | 10%      | 16V      |             |        |
| C130     | 1-164-505-11 | CERAMIC CHIP                   | 2.2uF         |          | 16V      |             |        |
| C131     | 1-164-505-11 | CERAMIC CHIP                   | 2.2uF         |          | 16V      |             |        |
| C132     | 1-164-505-11 | CERAMIC CHIP                   | 2.2uF         |          | 16V      |             |        |
| C133     | 1-126-607-11 | ELECT CHIP                     | 47uF          | 20%      | 4V       |             |        |
| C134     | 1-126-607-11 | ELECT CHIP                     | 47uF          | 20%      | 4V       |             |        |
| C136     | 1-107-826-11 | CERAMIC CHIP                   | 0.1uF         | 10%      | 16V      |             |        |
| C137     | 1-126-209-11 | ELECT CHIP                     | 100uF         | 20%      | 4V       |             |        |
| C138     | 1-162-964-11 | CERAMIC CHIP                   | 0.001uF       | 10%      | 50V      |             |        |
| C139     | 1-162-921-11 | CERAMIC CHIP                   | 33PF          | 5%       | 50V      |             |        |
| C140     | 1-164-505-11 | CERAMIC CHIP                   | 2.2uF         |          | 16V      |             |        |
| C145     | 1-162-908-11 | CERAMIC CHIP                   | 3PF           | 0.25PF   | 50V      |             |        |
| C150     | 1-126-204-11 | ELECT CHIP                     | 47uF          | 20%      | 16V      |             |        |
| C151     | 1-164-156-11 | CERAMIC CHIP                   | 0.1uF         |          | 25V      |             |        |
| C152     | 1-162-919-11 | CERAMIC CHIP                   | 22PF          | 5%       | 50V      |             |        |
| C153     | 1-162-919-11 | CERAMIC CHIP                   | 22PF          | 5%       | 50V      |             |        |
| C154     | 1-162-964-11 | CERAMIC CHIP                   | 0.001uF       | 10%      | 50V      |             |        |
| C158     | 1-164-172-11 | CERAMIC CHIP                   | 0.0056uF      | 10%      | 25V      |             |        |
| C171     | 1-126-206-11 | ELECT CHIP                     | 100uF         | 20%      | 6.3V     |             |        |
| C172     | 1-164-156-11 | CERAMIC CHIP                   | 0.1uF         |          | 25V      |             |        |
| C173     | 1-162-928-11 | CERAMIC CHIP                   | 120PF         | 5%       | 50V      |             |        |
| C174     | 1-115-412-11 | CERAMIC CHIP                   | 680PF         | 5%       | 25V      |             |        |
| C181     | 1-126-206-11 | ELECT CHIP                     | 100uF         | 20%      | 6.3V     |             |        |
| C182     | 1-164-156-11 | CERAMIC CHIP                   | 0.1uF         |          | 25V      |             |        |
| C183     | 1-162-928-11 | CERAMIC CHIP                   | 120PF         | 5%       | 50V      |             |        |
| C184     | 1-115-412-11 | CERAMIC CHIP                   | 680PF         | 5%       | 25V      |             |        |
| C191     | 1-126-205-11 | ELECT CHIP                     | 47uF          | 20%      | 6.3V     |             |        |
| C192     | 1-164-156-11 | CERAMIC CHIP                   | 0.1uF         |          | 25V      |             |        |
| C193     | 1-162-920-11 | CERAMIC CHIP                   | 27PF          | 5%       | 50V      |             |        |
| C194     | 1-162-918-11 | CERAMIC CHIP                   | 18PF          | 5%       | 50V      |             |        |
| C199     | 1-164-156-11 | CERAMIC CHIP                   | 0.1uF         |          | 25V      |             |        |
|          |              | < CONNECTOR >                  |               |          |          |             |        |
| CN101    | 1-784-360-11 | CONNECTOR, FFC (LIF (NON-ZIF)) | 21P           |          |          |             |        |
| CN102    | 1-777-937-11 | CONNECTOR, FFC/FPC             | 16P           |          |          |             |        |
|          |              | < SHORT >                      |               |          |          |             |        |
| FB191    | 1-216-864-11 | SHORT                          | 0             |          |          |             |        |
|          |              | < IC >                         |               |          |          |             |        |
| IC101    | 8-752-386-85 | IC                             | CXD2587Q      |          |          |             |        |
| IC131    | 8-752-089-74 | IC                             | CXA2581N-T4   |          |          |             |        |
| IC150    | 8-759-829-14 | IC                             | AN4800SB      |          |          |             |        |
|          |              | < TRANSISTOR >                 |               |          |          |             |        |
| Q131     | 8-729-010-08 | TRANSISTOR                     | MSB710-RT1    |          |          |             |        |
| Q132     | 8-729-600-22 | TRANSISTOR                     | 2SA1235TP-1EF |          |          |             |        |
|          |              | < RESISTOR >                   |               |          |          |             |        |
| R101     | 1-216-835-11 | METAL CHIP                     | 15K           | 5%       | 1/16W    |             |        |
| R102     | 1-216-845-11 | METAL CHIP                     | 100K          | 5%       | 1/16W    |             |        |
| R103     | 1-216-835-11 | METAL CHIP                     | 15K           | 5%       | 1/16W    |             |        |
| R110     | 1-216-821-11 | METAL CHIP                     | 1K            | 5%       | 1/16W    |             |        |
| R111     | 1-216-809-11 | METAL CHIP                     | 100           | 5%       | 1/16W    |             |        |
| R112     | 1-216-833-11 | METAL CHIP                     | 10K           | 5%       | 1/16W    |             |        |
| R120     | 1-216-839-11 | METAL CHIP                     | 33K           | 5%       | 1/16W    |             |        |
| R121     | 1-216-833-11 | METAL CHIP                     | 10K           | 5%       | 1/16W    |             |        |
| R122     | 1-216-845-11 | METAL CHIP                     | 100K          | 5%       | 1/16W    |             |        |
| R123     | 1-216-857-11 | METAL CHIP                     | 1M            | 5%       | 1/16W    |             |        |
| R125     | 1-216-827-11 | METAL CHIP                     | 3.3K          | 5%       | 1/16W    |             |        |
| R126     | 1-216-833-11 | METAL CHIP                     | 10K           | 5%       | 1/16W    |             |        |
| R127     | 1-216-821-11 | METAL CHIP                     | 1K            | 5%       | 1/16W    |             |        |
| R129     | 1-216-815-11 | METAL CHIP                     | 330           | 5%       | 1/16W    |             |        |
| R134     | 1-216-853-11 | METAL CHIP                     | 470K          | 5%       | 1/16W    |             |        |
| R135     | 1-216-836-11 | METAL CHIP                     | 18K           | 5%       | 1/16W    |             |        |
| R136     | 1-216-836-11 | METAL CHIP                     | 18K           | 5%       | 1/16W    |             |        |
| R137     | 1-216-797-11 | METAL CHIP                     | 10            | 5%       | 1/16W    |             |        |
| R138     | 1-216-798-11 | RES-CHIP                       | 12            | 5%       | 1/16W    |             |        |
| R139     | 1-216-847-11 | METAL CHIP                     | 150K          | 5%       | 1/16W    |             |        |
| R140     | 1-216-854-11 | METAL CHIP                     | 560K          | 5%       | 1/16W    |             |        |
| R141     | 1-216-840-11 | METAL CHIP                     | 39K           | 5%       | 1/16W    |             |        |

**BD** **DISPLAY**

| Ref. No.                      | Part No.     | Description                      | Remark         |
|-------------------------------|--------------|----------------------------------|----------------|
| R142                          | 1-216-841-11 | METAL CHIP                       | 47K 5% 1/16W   |
| R143                          | 1-216-855-11 | METAL CHIP                       | 680K 5% 1/16W  |
| R144                          | 1-216-846-11 | METAL CHIP                       | 120K 5% 1/16W  |
| R145                          | 1-216-830-11 | METAL CHIP                       | 5.6K 5% 1/16W  |
| R146                          | 1-216-845-11 | METAL CHIP                       | 100K 5% 1/16W  |
| R149                          | 1-216-821-11 | METAL CHIP                       | 1K 5% 1/16W    |
| R151                          | 1-216-845-11 | METAL CHIP                       | 100K 5% 1/16W  |
| R152                          | 1-216-833-11 | METAL CHIP                       | 10K 5% 1/16W   |
| R153                          | 1-216-864-11 | SHORT                            | 0              |
| R155                          | 1-216-836-11 | METAL CHIP                       | 18K 5% 1/16W   |
| R171                          | 1-218-720-11 | METAL CHIP                       | 15K 0.5% 1/16W |
| R172                          | 1-218-720-11 | METAL CHIP                       | 15K 0.5% 1/16W |
| R173                          | 1-218-720-11 | METAL CHIP                       | 15K 0.5% 1/16W |
| R174                          | 1-216-809-11 | METAL CHIP                       | 100 5% 1/16W   |
| R181                          | 1-218-720-11 | METAL CHIP                       | 15K 0.5% 1/16W |
| R182                          | 1-218-720-11 | METAL CHIP                       | 15K 0.5% 1/16W |
| R183                          | 1-218-720-11 | METAL CHIP                       | 15K 0.5% 1/16W |
| R184                          | 1-216-809-11 | METAL CHIP                       | 100 5% 1/16W   |
| R191                          | 1-216-817-11 | METAL CHIP                       | 470 5% 1/16W   |
| R192                          | 1-216-797-11 | METAL CHIP                       | 10 5% 1/16W    |
| < COMPOSITION CIRCUIT BLOCK > |              |                                  |                |
| RB101                         | 1-233-576-11 | RES, CHIP NETWORK 100            |                |
| RB102                         | 1-233-576-11 | RES, CHIP NETWORK 100            |                |
| < SWITCH >                    |              |                                  |                |
| S101                          | 1-572-085-11 | SWITCH, LEAF (LIMIT)             |                |
| < VIBRATOR >                  |              |                                  |                |
| X191                          | 1-767-408-21 | VIBRATOR, CRYSTAL (16MHz)        |                |
| *****                         |              |                                  |                |
|                               | A-4476-754-A | DISPLAY BOARD (US, CND)          |                |
|                               | A-4476-660-A | DISPLAY BOARD (AEP)              |                |
| *****                         |              |                                  |                |
|                               | 2-389-320-01 | CUSHION                          |                |
| *                             | 4-997-495-01 | GUIDE (FL)                       |                |
| < CAPACITOR >                 |              |                                  |                |
| C801                          | 1-161-494-00 | CERAMIC                          | 0.022uF 25V    |
| C802                          | 1-164-159-11 | CERAMIC                          | 0.1uF 50V      |
| C803                          | 1-104-665-11 | ELECT                            | 100uF 20% 10V  |
| C851                          | 1-162-215-31 | CERAMIC                          | 47PF 5% 50V    |
| C852                          | 1-161-494-00 | CERAMIC                          | 0.022uF 25V    |
| C853                          | 1-162-282-31 | CERAMIC                          | 100PF 10% 50V  |
| C854                          | 1-162-282-31 | CERAMIC                          | 100PF 10% 50V  |
| C855                          | 1-162-282-31 | CERAMIC                          | 100PF 10% 50V  |
| C861                          | 1-104-665-11 | ELECT                            | 100uF 20% 10V  |
| < CONNECTOR >                 |              |                                  |                |
| CN811                         | 1-750-185-11 | CONNECTOR, BOARD TO BOARD 4P     |                |
| CNP801                        | 1-784-776-11 | CONNECTOR, FFC 15P               |                |
| < LED >                       |              |                                  |                |
| D801                          | 8-719-046-36 | LED SEL5921A-TP15 (MEGA CONTROL) |                |

| Ref. No.                       | Part No.     | Description                         | Remark                          |
|--------------------------------|--------------|-------------------------------------|---------------------------------|
| < FLUORESCENT INDICATOR TUBE > |              |                                     |                                 |
| FL801                          | 1-518-738-11 | INDICATOR TUBE, FLUORESCENT         |                                 |
| < IC >                         |              |                                     |                                 |
| IC801                          | 8-759-829-13 | IC MSM9202-06GS-BK                  |                                 |
| IC802                          | 8-759-827-70 | IC NJL64H400A-1                     |                                 |
| < TRANSISTOR >                 |              |                                     |                                 |
| Q801                           | 8-729-029-66 | TRANSISTOR                          | DTC114ESA-TP                    |
| Q802                           | 8-729-029-66 | TRANSISTOR                          | DTC114ESA-TP                    |
| Q803                           | 8-729-029-66 | TRANSISTOR                          | DTC114ESA-TP                    |
| Q804                           | 8-729-029-66 | TRANSISTOR                          | DTC114ESA-TP                    |
| Q805                           | 8-729-029-66 | TRANSISTOR                          | DTC114ESA-TP                    |
| Q806                           | 8-729-029-66 | TRANSISTOR                          | DTC114ESA-TP                    |
| Q807                           | 8-729-029-66 | TRANSISTOR                          | DTC114ESA-TP                    |
| < RESISTOR >                   |              |                                     |                                 |
| R801                           | 1-249-441-11 | CARBON                              | 100K 5% 1/4W                    |
| R802                           | 1-249-441-11 | CARBON                              | 100K 5% 1/4W                    |
| R803                           | 1-249-441-11 | CARBON                              | 100K 5% 1/4W                    |
| R804                           | 1-249-441-11 | CARBON                              | 100K 5% 1/4W                    |
| R805                           | 1-249-441-11 | CARBON                              | 100K 5% 1/4W                    |
| R806                           | 1-249-441-11 | CARBON                              | 100K 5% 1/4W                    |
| R807                           | 1-247-807-31 | CARBON                              | 100 5% 1/4W                     |
| R811                           | 1-249-415-11 | CARBON                              | 680 5% 1/4W                     |
| R812                           | 1-249-417-11 | CARBON                              | 1K 5% 1/4W                      |
| R813                           | 1-249-419-11 | CARBON                              | 1.5K 5% 1/4W                    |
| R814                           | 1-249-421-11 | CARBON                              | 2.2K 5% 1/4W                    |
| R815                           | 1-247-843-11 | CARBON                              | 3.3K 5% 1/4W                    |
| R816                           | 1-249-427-11 | CARBON                              | 6.8K 5% 1/4W                    |
| R821                           | 1-249-415-11 | CARBON                              | 680 5% 1/4W                     |
| R822                           | 1-249-417-11 | CARBON                              | 1K 5% 1/4W                      |
| R823                           | 1-249-419-11 | CARBON                              | 1.5K 5% 1/4W                    |
| R824                           | 1-249-421-11 | CARBON                              | 2.2K 5% 1/4W                    |
| R846                           | 1-249-427-11 | CARBON                              | 6.8K 5% 1/4W                    |
| R851                           | 1-247-843-11 | CARBON                              | 3.3K 5% 1/4W                    |
| R852                           | 1-247-807-31 | CARBON                              | 100 5% 1/4W                     |
| R853                           | 1-247-807-31 | CARBON                              | 100 5% 1/4W                     |
| R854                           | 1-247-807-31 | CARBON                              | 100 5% 1/4W                     |
| R855                           | 1-247-807-31 | CARBON                              | 100 5% 1/4W                     |
| R861                           | 1-247-807-31 | CARBON                              | 100 5% 1/4W                     |
| R862                           | 1-247-807-31 | CARBON                              | 100 5% 1/4W                     |
| < SWITCH >                     |              |                                     |                                 |
| S801                           | 1-475-543-11 | ENCODER, ROTARY                     | (◀◀ AMS ▶▶) (DISC), PUSH ENTER) |
| S811                           | 1-771-349-21 | SWITCH, KEYBOARD (▶)                |                                 |
| S812                           | 1-771-349-21 | SWITCH, KEYBOARD (■)                |                                 |
| S813                           | 1-771-349-21 | SWITCH, KEYBOARD (□)                |                                 |
| S814                           | 1-771-349-21 | SWITCH, KEYBOARD (EX-CHANGE)        |                                 |
| S815                           | 1-771-349-21 | SWITCH, KEYBOARD (DISC SKIP)        |                                 |
| S821                           | 1-771-349-21 | SWITCH, KEYBOARD (MEGA CONTROL)     |                                 |
| S822                           | 1-771-349-21 | SWITCH, KEYBOARD (X-FADE, NO DELAY) |                                 |
| S823                           | 1-771-349-21 | SWITCH, KEYBOARD (MENU)             |                                 |
| S824                           | 1-771-349-21 | SWITCH, KEYBOARD (◀◀, (AMS -))      |                                 |
| S825                           | 1-771-349-21 | SWITCH, KEYBOARD (▶▶, (AMS +))      |                                 |

**CDP-CE575**

|                      |                  |                 |                |                |
|----------------------|------------------|-----------------|----------------|----------------|
| <b>DISPLAY</b>       | <b>HEADPHONE</b> | <b>JUNCTION</b> | <b>KEY (A)</b> | <b>KEY (B)</b> |
| <b>LOADING MOTOR</b> | <b>MAIN</b>      |                 |                |                |

| Ref. No.      | Part No.     | Description                                  | Remark  |     |      |
|---------------|--------------|--|---------|-----|------|
| S846          | 1-771-349-21 | SWITCH, KEYBOARD (≡ OPEN/COLSE)              |         |     |      |
| *****         |              |  |         |     |      |
|               | 1-681-136-11 | HEADPHONE BOARD (US, CND)                    |         |     |      |
|               | 1-681-136-21 | HEADPHONE BOARD (AEP)                        |         |     |      |
| *****         |              |  |         |     |      |
| < CAPACITOR > |              |  |         |     |      |
| C881          | 1-162-294-31 | CERAMIC                                      | 0.001uF | 10% | 50V  |
| C882          | 1-162-294-31 | CERAMIC                                      | 0.001uF | 10% | 50V  |
| C883          | 1-164-159-11 | CERAMIC                                      | 0.1uF   |     | 50V  |
| < JACK >      |              |  |         |     |      |
| J881          | 1-770-307-11 | JACK (LARGE TYPE) (PHONES)                   |         |     |      |
| < RESISTOR >  |              |  |         |     |      |
| R881          | 1-249-401-11 | CARBON                                       | 47      | 5%  | 1/4W |
| R882          | 1-249-401-11 | CARBON                                       | 47      | 5%  | 1/4W |
| *****         |              |  |         |     |      |
|               | 1-676-246-11 | JUNCTION BOARD                               |         |     |      |
| *****         |              |  |         |     |      |
| < CAPACITOR > |              |  |         |     |      |
| C10           | 1-124-589-11 | ELECT  | 47uF    | 20% | 16V  |
| C11           | 1-161-494-00 | CERAMIC                                      | 0.022uF |     | 25V  |
| < CONNECTOR > |              |  |         |     |      |
| CN11          | 1-573-911-11 | PIN, CONNECTOR 13P                           |         |     |      |
| CN13          | 1-506-481-11 | PIN, CONNECTOR 2P                            |         |     |      |
| * CN14        | 1-568-941-11 | PIN, CONNECTOR 3P                            |         |     |      |
| CN15          | 1-784-767-11 | CONNECTOR, FFC 6P                            |         |     |      |
| < IC >        |              |  |         |     |      |
| IC11          | 8-759-356-03 | IC BA6780                                    |         |     |      |
| < RESISTOR >  |              |  |         |     |      |
| R21           | 1-249-429-11 | CARBON                                       | 10K     | 5%  | 1/4W |
| R22           | 1-249-426-11 | CARBON                                       | 5.6K    | 5%  | 1/4W |
| R23           | 1-249-425-11 | CARBON                                       | 4.7K    | 5%  | 1/4W |
| R24           | 1-249-430-11 | CARBON                                       | 12K     | 5%  | 1/4W |
| R25           | 1-249-382-11 | CARBON                                       | 1.2     | 5%  | 1/6W |
| R26           | 1-249-382-11 | CARBON                                       | 1.2     | 5%  | 1/6W |
| < SWITCH >    |              |  |         |     |      |
| S11           | 1-771-836-11 | SWITCH, LEVER (SLIDE)<br>(OPEN/CLOSE DETECT) |         |     |      |
| *****         |              |  |         |     |      |
|               | 1-681-134-11 | KEY (A) BOARD (US, CND)                      |         |     |      |
|               | 1-681-134-21 | KEY (A) BOARD (AEP)                          |         |     |      |
| *****         |              |  |         |     |      |
| < CONNECTOR > |              |  |         |     |      |
| CNP811        | 1-750-194-11 | CONNECTOR, BOARD TO BOARD 4P                 |         |     |      |
| < RESISTOR >  |              |  |         |     |      |
| R825          | 1-247-843-11 | CARBON                                       | 3.3K    | 5%  | 1/4W |

| Ref. No.      | Part No.                       | Description                    | Remark  |     |      |
|---------------|--------------------------------|--------------------------------|---------|-----|------|
| R826          | 1-249-427-11                   | CARBON                         | 6.8K    | 5%  | 1/4W |
| R831          | 1-249-415-11                   | CARBON                         | 680     | 5%  | 1/4W |
| R832          | 1-249-417-11                   | CARBON                         | 1K      | 5%  | 1/4W |
| R833          | 1-249-419-11                   | CARBON                         | 1.5K    | 5%  | 1/4W |
| R834          | 1-249-421-11                   | CARBON                         | 2.2K    | 5%  | 1/4W |
| R835          | 1-247-843-11                   | CARBON                         | 3.3K    | 5%  | 1/4W |
| R836          | 1-249-427-11                   | CARBON                         | 6.8K    | 5%  | 1/4W |
| R837          | 1-249-431-11                   | CARBON                         | 15K     | 5%  | 1/4W |
| < SWITCH >    |                                |                                |         |     |      |
| S826          | 1-771-349-21                   | SWITCH, KEYBOARD (TIME/TEXT)   |         |     |      |
| S827          | 1-771-349-21                   | SWITCH, KEYBOARD (REPEAT)      |         |     |      |
| S831          | 1-771-349-21                   | SWITCH, KEYBOARD (DISC 5)      |         |     |      |
| S832          | 1-771-349-21                   | SWITCH, KEYBOARD (DISC 4)      |         |     |      |
| S833          | 1-771-349-21                   | SWITCH, KEYBOARD (DISC 3)      |         |     |      |
| S834          | 1-771-349-21                   | SWITCH, KEYBOARD (DISC 2)      |         |     |      |
| S835          | 1-771-349-21                   | SWITCH, KEYBOARD (DISC 1)      |         |     |      |
| S836          | 1-771-349-21                   | SWITCH, KEYBOARD (CONTINUE)    |         |     |      |
| S837          | 1-771-349-21                   | SWITCH, KEYBOARD (SHUFFLE)     |         |     |      |
| S838          | 1-771-349-21                   | SWITCH, KEYBOARD (PROGRAM)     |         |     |      |
| *****         |                                |                                |         |     |      |
|               | 1-681-137-11                   | KEY (B) BOARD (US, CND)        |         |     |      |
|               | 1-681-137-21                   | KEY (B) BOARD (AEP)            |         |     |      |
| *****         |                                |                                |         |     |      |
| < RESISTOR >  |                                |                                |         |     |      |
| R841          | 1-249-415-11                   | CARBON                         | 680     | 5%  | 1/4W |
| R842          | 1-249-417-11                   | CARBON                         | 1K      | 5%  | 1/4W |
| R843          | 1-249-419-11                   | CARBON                         | 1.5K    | 5%  | 1/4W |
| R844          | 1-249-421-11                   | CARBON                         | 2.2K    | 5%  | 1/4W |
| R845          | 1-247-843-11                   | CARBON                         | 3.3K    | 5%  | 1/4W |
| < SWITCH >    |                                |                                |         |     |      |
| S841          | 1-771-349-21                   | SWITCH, KEYBOARD (FADER)       |         |     |      |
| S842          | 1-771-349-21                   | SWITCH, KEYBOARD (PEAK SEARCH) |         |     |      |
| S843          | 1-771-349-21                   | SWITCH, KEYBOARD (CLEAR)       |         |     |      |
| S844          | 1-771-349-21                   | SWITCH, KEYBOARD (CHECK)       |         |     |      |
| S845          | 1-771-349-21                   | SWITCH, KEYBOARD (EDIT)        |         |     |      |
| *****         |                                |                                |         |     |      |
|               | 1-676-244-11                   | LOADING MOTOR BOARD            |         |     |      |
| *****         |                                |                                |         |     |      |
| *****         |                                |                                |         |     |      |
| A-4725-582-A  | MAIN BOARD, COMPLETE (US, CND) |                                |         |     |      |
| A-4725-593-A  | MAIN BOARD, COMPLETE (AEP)     |                                |         |     |      |
| *****         |                                |                                |         |     |      |
| 7-685-871-01  | SCREW +BVTT 3X6 (S)            |                                |         |     |      |
| < CAPACITOR > |                                |                                |         |     |      |
| C301          | 1-164-159-11                   | CERAMIC                        | 0.1uF   |     | 50V  |
| C302          | 1-104-665-11                   | ELECT                          | 100uF   | 20% | 10V  |
| C303          | 1-161-494-00                   | CERAMIC                        | 0.022uF |     | 25V  |
| C304          | 1-161-494-00                   | CERAMIC                        | 0.022uF |     | 25V  |
| C305          | 1-110-489-11                   | DOUBLE LAYER                   | 1F      |     | 5.5V |
| C325          | 1-161-494-00                   | CERAMIC                        | 0.022uF |     | 25V  |
| C326          | 1-104-665-11                   | ELECT                          | 100uF   | 20% | 10V  |
| C350          | 1-126-962-11                   | ELECT                          | 3.3uF   | 20% | 50V  |
| C351          | 1-126-963-11                   | ELECT                          | 4.7uF   | 20% | 50V  |

| Ref. No. | Part No.     | Description            | Remark   | Ref. No. | Part No. | Description    | Remark  |
|----------|--------------|------------------------|----------|----------|----------|----------------|---|
| C381     | 1-164-159-11 | CERAMIC                | 0.1uF    | 50V      |          | < IC >         |   |
| C382     | 1-164-159-11 | CERAMIC                | 0.1uF    | 50V      | IC301    | 8-752-919-06   | IC CXP84648-085Q                              |
| C404     | 1-126-965-11 | ELECT                  | 22uF     | 20% 50V  | IC302    | 8-759-825-10   | IC BS62LV256SC-70 (T)                         |
| C405     | 1-104-664-11 | ELECT                  | 47uF     | 20% 10V  | IC303    | 8-749-921-12   | IC GP1F32T (DIGITAL OUT OPTICAL)              |
| C406     | 1-126-933-11 | ELECT                  | 100uF    | 20% 16V  | IC351    | 8-759-167-88   | IC NJM4565D                                   |
| C407     | 1-162-290-31 | CERAMIC                | 470PF    | 10% 50V  | IC402    | 8-749-015-59   | IC BA4558-HT                                  |
| C408     | 1-107-715-11 | ELECT                  | 22uF     | 20% 25V  | IC502    | 8-749-015-59   | IC BA4558-HT                                  |
| C451     | 1-126-933-11 | ELECT                  | 100uF    | 20% 16V  | IC601    | 8-759-039-69   | IC uPC7805AHF                                 |
| C504     | 1-126-965-11 | ELECT                  | 22uF     | 20% 50V  | IC602    | 8-749-011-78   | IC BA17807T                                   |
| C505     | 1-104-664-11 | ELECT                  | 47uF     | 20% 10V  | IC603    | 8-759-165-82   | IC PST600E-T                                  |
| C506     | 1-126-933-11 | ELECT                  | 100uF    | 20% 16V  |          | < JACK >       |   |
| C507     | 1-162-290-31 | CERAMIC                | 470PF    | 10% 50V  | J301     | 1-784-429-11   | JACK, PIN 4P (ANALOG OUT, 2ND CD IN)          |
| C508     | 1-107-715-11 | ELECT                  | 22uF     | 20% 25V  | J381     | 1-779-655-21   | JACK (SMALL TYPE) (2 GANG)<br>(CONTROL A1 II) |
| C551     | 1-126-933-11 | ELECT                  | 100uF    | 20% 16V  |          | < COIL >       |   |
| C602     | 1-126-937-11 | ELECT                  | 4700uF   | 20% 16V  | L381     | 1-410-503-11   | INDUCTOR 3.3uH                                |
| C603     | 1-126-767-11 | ELECT                  | 1000uF   | 20% 16V  | L602     | 1-414-151-21   | INDUCTOR 470uH                                |
| C604     | 1-104-664-11 | ELECT                  | 47uF     | 20% 10V  |          | < TRANSISTOR > |   |
| C607     | 1-126-935-11 | ELECT                  | 470uF    | 20% 6.3V | Q307     | 8-729-029-56   | TRANSISTOR DTA144ESA-TP                       |
| C608     | 1-126-934-11 | ELECT                  | 220uF    | 20% 10V  | Q311     | 8-729-029-66   | TRANSISTOR DTC114ESA-TP                       |
| C609     | 1-128-552-51 | ELECT                  | 47uF     | 20% 63V  | Q352     | 8-729-029-56   | TRANSISTOR DTA144ESA-TP                       |
| C610     | 1-126-964-11 | ELECT                  | 10uF     | 20% 50V  | Q353     | 8-729-029-56   | TRANSISTOR DTA144ESA-TP                       |
| C611     | 1-126-767-11 | ELECT                  | 1000uF   | 20% 16V  | Q354     | 8-729-029-56   | TRANSISTOR DTA144ESA-TP                       |
| C613     | 1-126-935-11 | ELECT                  | 470uF    | 20% 6.3V | Q355     | 8-729-029-56   | TRANSISTOR DTA144ESA-TP                       |
| C616     | 1-161-494-00 | CERAMIC                | 0.022uF  | 25V      | Q356     | 8-729-029-56   | TRANSISTOR DTA144ESA-TP                       |
| C619     | 1-104-665-11 | ELECT                  | 100uF    | 20% 10V  | Q381     | 8-729-119-78   | TRANSISTOR 2SC1740S-QRT                       |
| △C620    | 1-113-924-11 | CERAMIC                | 0.0047uF | 20% 250V | Q402     | 8-729-141-26   | TRANSISTOR 2SC3622ATP-LK                      |
| C810     | 1-161-494-00 | CERAMIC                | 0.022uF  | 25V      | Q403     | 8-729-141-26   | TRANSISTOR 2SC3622ATP-LK                      |
| C820     | 1-161-494-00 | CERAMIC                | 0.022uF  | 25V      | Q404     | 8-729-141-26   | TRANSISTOR 2SC3622ATP-LK                      |
| C830     | 1-161-494-00 | CERAMIC                | 0.022uF  | 25V      | Q502     | 8-729-141-26   | TRANSISTOR 2SC3622ATP-LK                      |
| C840     | 1-161-494-00 | CERAMIC                | 0.022uF  | 25V      | Q503     | 8-729-141-26   | TRANSISTOR 2SC3622ATP-LK                      |
|          |              | < CONNECTOR >          |          |          | Q504     | 8-729-141-26   | TRANSISTOR 2SC3622ATP-LK                      |
| CN301    | 1-568-838-11 | CONNECTOR, FFC 21P     |          |          | Q601     | 8-729-140-97   | TRANSISTOR 2SB734-T-34                        |
| CN311    | 1-573-911-11 | PIN, CONNECTOR 13P     |          |          |          | < RESISTOR >   |   |
| CN351    | 1-506-468-11 | PIN, CONNECTOR 3P      |          |          | R300     | 1-249-427-11   | CARBON 6.8K 5% 1/4W                           |
| CN603    | 1-792-131-11 | LEAD (WITH CONNECTOR)  |          |          | R301     | 1-249-415-11   | CARBON 680 5% 1/4W                            |
| CN801    | 1-784-776-11 | CONNECTOR, FFC 15P     |          |          | R302     | 1-249-417-11   | CARBON 1K 5% 1/4W                             |
|          |              | < DIODE >              |          |          | R303     | 1-249-429-11   | CARBON 10K 5% 1/4W                            |
| D301     | 8-719-911-19 | DIODE 1SS133T-72       |          |          | R306     | 1-249-429-11   | CARBON 10K 5% 1/4W                            |
| D352     | 8-719-911-19 | DIODE 1SS133T-72       |          |          | R307     | 1-249-429-11   | CARBON 10K 5% 1/4W                            |
| D353     | 8-719-911-19 | DIODE 1SS133T-72       |          |          | R308     | 1-249-429-11   | CARBON 10K 5% 1/4W                            |
| D381     | 8-719-911-19 | DIODE 1SS133T-72       |          |          | R309     | 1-249-429-11   | CARBON 10K 5% 1/4W                            |
| D601     | 8-719-024-99 | DIODE 11ES2-NTA2B      |          |          | R310     | 1-249-429-11   | CARBON 10K 5% 1/4W                            |
| D602     | 8-719-024-99 | DIODE 11ES2-NTA2B      |          |          | R311     | 1-249-429-11   | CARBON 10K 5% 1/4W                            |
| D603     | 8-719-024-99 | DIODE 11ES2-NTA2B      |          |          | R312     | 1-249-429-11   | CARBON 10K 5% 1/4W                            |
| D604     | 8-719-024-99 | DIODE 11ES2-NTA2B      |          |          | R314     | 1-247-807-31   | CARBON 100 5% 1/4W                            |
| D605     | 8-719-024-99 | DIODE 11ES2-NTA2B      |          |          | R315     | 1-247-807-31   | CARBON 100 5% 1/4W                            |
| D606     | 8-719-911-19 | DIODE 1SS133T-72       |          |          | R316     | 1-249-429-11   | CARBON 10K 5% 1/4W                            |
| D607     | 8-719-911-19 | DIODE 1SS133T-72       |          |          | R317     | 1-249-429-11   | CARBON 10K 5% 1/4W                            |
| D608     | 8-719-109-85 | DIODE MTZJ-T-72-5.1B   |          |          | R318     | 1-249-399-11   | CARBON 33 5% 1/4W                             |
| D610     | 8-719-983-99 | DIODE MTZJ-T-72-39D    |          |          | R324     | 1-249-429-11   | CARBON 10K 5% 1/4W                            |
| D612     | 8-719-110-08 | DIODE MTZJ-T-72-8.2B   |          |          | R325     | 1-247-807-31   | CARBON 100 5% 1/4W                            |
|          |              | < GROUND TERMINAL >    |          |          | R326     | 1-249-425-11   | CARBON 4.7K 5% 1/4W                           |
| EB601    | 1-537-770-21 | TERMINAL BOARD, GROUND |          |          | R327     | 1-249-425-11   | CARBON 4.7K 5% 1/4W                           |

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|             |                 |               |
|-------------|-----------------|---------------|
| <b>MAIN</b> | <b>POWER SW</b> | <b>SENSOR</b> |
|-------------|-----------------|---------------|

| Ref. No. | Part No.     | Description | Remark       |
|----------|--------------|-------------|--------------|
| R329     | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W |
| R350     | 1-247-807-31 | CARBON      | 100 5% 1/4W  |
| R351     | 1-247-807-31 | CARBON      | 100 5% 1/4W  |
| R352     | 1-249-441-11 | CARBON      | 100K 5% 1/4W |
| R353     | 1-249-441-11 | CARBON      | 100K 5% 1/4W |
| R354     | 1-249-441-11 | CARBON      | 100K 5% 1/4W |
| R355     | 1-249-441-11 | CARBON      | 100K 5% 1/4W |
| R356     | 1-249-441-11 | CARBON      | 100K 5% 1/4W |
| R381     | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W |
| R382     | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R383     | 1-249-393-11 | CARBON      | 10 5% 1/4W   |
| R406     | 1-247-895-00 | CARBON      | 470K 5% 1/4W |
| R407     | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W |
| R409     | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W |
| R410     | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R411     | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R412     | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R413     | 1-247-887-00 | CARBON      | 220K 5% 1/4W |
| R414     | 1-249-409-11 | CARBON      | 220 5% 1/4W  |
| R415     | 1-249-409-11 | CARBON      | 220 5% 1/4W  |
| R417     | 1-249-427-11 | CARBON      | 6.8K 5% 1/4W |
| R418     | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W |
| R419     | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W |
| R420     | 1-249-409-11 | CARBON      | 220 5% 1/4W  |
| R421     | 1-247-895-00 | CARBON      | 470K 5% 1/4W |
| R422     | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W |
| R451     | 1-247-843-11 | CARBON      | 3.3K 5% 1/4W |
| R452     | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R506     | 1-247-895-00 | CARBON      | 470K 5% 1/4W |
| R507     | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W |
| R509     | 1-249-419-11 | CARBON      | 1.5K 5% 1/4W |
| R510     | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R511     | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R512     | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R513     | 1-247-887-00 | CARBON      | 220K 5% 1/4W |
| R514     | 1-249-409-11 | CARBON      | 220 5% 1/4W  |
| R515     | 1-249-409-11 | CARBON      | 220 5% 1/4W  |
| R517     | 1-249-427-11 | CARBON      | 6.8K 5% 1/4W |
| R518     | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W |
| R519     | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W |
| R520     | 1-249-409-11 | CARBON      | 220 5% 1/4W  |
| R521     | 1-247-895-00 | CARBON      | 470K 5% 1/4W |
| R522     | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W |
| R551     | 1-247-843-11 | CARBON      | 3.3K 5% 1/4W |
| R552     | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R601     | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W |
| R602     | 1-249-411-11 | CARBON      | 330 5% 1/4W  |
| R611     | 1-247-843-11 | CARBON      | 3.3K 5% 1/4W |
| R612     | 1-247-843-11 | CARBON      | 3.3K 5% 1/4W |
| R613     | 1-247-807-31 | CARBON      | 100 5% 1/4W  |
| R616     | 1-249-429-11 | CARBON      | 10K 5% 1/4W  |
| R810     | 1-249-427-11 | CARBON      | 6.8K 5% 1/4W |
| R820     | 1-249-427-11 | CARBON      | 6.8K 5% 1/4W |
| R830     | 1-249-427-11 | CARBON      | 6.8K 5% 1/4W |
| R840     | 1-249-427-11 | CARBON      | 6.8K 5% 1/4W |

| Ref. No.              | Part No.     | Description                           | Remark |
|-----------------------|--------------|---------------------------------------|--------|
| < POWER TRANSFORMER > |              |                                       |        |
| △ T601                | 1-435-342-11 | TRANSFORMER, POWER (US, CND)          |        |
| △ T601                | 1-435-343-11 | TRANSFORMER, POWER (AEP)              |        |
| < VIBRATOR >          |              |                                       |        |
| X301                  | 1-579-175-11 | VIBRATOR, CERAMIC (10MHZ)             |        |
| *****                 |              |                                       |        |
|                       | 1-681-135-11 | POWER SW BOARD (US, CND)              |        |
|                       | 1-681-135-21 | POWER SW BOARD (AEP)                  |        |
| *****                 |              |                                       |        |
| < CAPACITOR >         |              |                                       |        |
| △ C601                | 1-113-924-11 | CERAMIC 0.0047uF 20% 250V             |        |
| < CONNECTOR >         |              |                                       |        |
| * CN601               | 1-580-230-31 | PIN, CONNECTOR (PC BOARD) 2P          |        |
| * CN602               | 1-568-226-11 | PIN, CONNECTOR 2P                     |        |
| < SWITCH >            |              |                                       |        |
| △ S601                | 1-762-581-11 | SWITCH, AC POWER PUSH (1 KEY) (POWER) |        |
| *****                 |              |                                       |        |
|                       | 1-676-245-11 | SENSOR BOARD                          |        |
| *****                 |              |                                       |        |
| < CONNECTOR >         |              |                                       |        |
| CN10                  | 1-750-243-11 | SOCKET, CONNECTOR 6P                  |        |
| < PHOTO INTERRUPTER > |              |                                       |        |
| D10                   | 8-749-924-18 | PHOTO INTERRUPTER RPI-1391            |        |
| D11                   | 8-749-017-45 | SENSOR, PHOTO RPR-220C1N              |        |
| < RESISTOR >          |              |                                       |        |
| R10                   | 1-249-416-11 | CARBON 820 5% 1/4W                    |        |
| R11                   | 1-249-407-11 | CARBON 150 5% 1/4W                    |        |
| R12                   | 1-249-429-11 | CARBON 10K 5% 1/4W                    |        |
| *****                 |              |                                       |        |
| MISCELLANEOUS         |              |                                       |        |
| *****                 |              |                                       |        |
| 61                    | 1-757-649-11 | WIRE (FLAT TYPE) (15 CORE)            |        |
| 105                   | 1-757-648-11 | WIRE (FLAT TYPE) (21 CORE)            |        |
| △ 110                 | 1-575-651-21 | CORD, POWER (AEP)                     |        |
| △ 110                 | 1-783-531-31 | CORD, POWER (US, CND)                 |        |
| 512                   | A-4672-867-A | MOTOR ASSY, ROTARY (TRAY)             |        |
| 568                   | 1-471-061-11 | MAGNET ASSY                           |        |
| 571                   | 1-791-930-11 | WIRE (FLAT TYPE) (6 CORE)             |        |
| 573                   | A-4672-879-A | MOTOR ASSY, LOADING                   |        |
| △ 605                 | 1-796-033-11 | OPTICAL PICK-UP (PXR-104X)            |        |
| 606                   | 1-782-817-11 | WIRE (FLAT TYPE) (16 CORE)            |        |
| M10                   | 1-541-632-12 | MOTOR, DC (LOADING)                   |        |
| M101                  | X-4917-523-3 | MOTOR ASSY (SPINDLE)                  |        |
| M102                  | X-4917-504-1 | MOTOR ASSY (SLED)                     |        |
| M11                   | 1-541-632-12 | MOTOR, DC (TRAY)                      |        |

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| Ref. No. | Part No.     | Description                                   | Remark |
|----------|--------------|---|--------|
| S200     | 1-418-746-11 | ENCODER, ROTARY<br>(BU, TABLE ADDRESS DETECT) |        |
| △ T601   | 1-435-342-11 | TRANSFORMER, POWER (US, CND)                  |        |
| △ T601   | 1-435-343-11 | TRANSFORMER, POWER (AEP)                      |        |

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ACCESSORIES & PACKING MATERIALS

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|              |  |
|--------------|--|
| 1-418-858-11 | REMOTE COMMANDER (RM-DC545)  |
| 1-558-271-11 | CORD, CONNECTION (RCA PIN PLUG)  |
| 1-777-241-11 | CORD, CONNECTION (MINI PLUG) (CND)   |
| 4-233-301-11 | MANUAL, INSTRUCTION (ENGLISH) (US)   |
| 4-233-301-21 | MANUAL, INSTRUCTION (ENGLISH, FRENCH)<br>(CND)   |
| 4-233-301-31 | MANUAL, INSTRUCTION (ENGLISH, FRENCH,<br>GERMAN, SPANISH, DUTCH, SWEDISH,<br>ITALIAN , PORTUGUESE) (AEP) |
| 4-981-643-01 | COVER, BATTERY (for RM-DC545)  |

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