

# CDP-C591/CE235/CE335

## SERVICE MANUAL



Photo : CDP-CE235

*US Model*  
CDP-C591/CE235/CE335  
*Canadian Model*  
*AEP Model*  
*UK Model*  
*E Model*  
*Australian Model*  
CDP-CE235/CE335

|                                    |                |
|------------------------------------|----------------|
| Model Name Using Similar Mechanism | NEW            |
| CD Mechanism Type                  | CDM27-5BD32A   |
| Base Unit Type                     | BU-5BD32A      |
| Optical Pick-up Type               | KSS-213BA/F-NP |

### SPECIFICATIONS

#### Compact Disc Player

|                       |                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Laser                 | Semiconductor laser ( $\lambda = 780 \text{ nm}$ )                                                                                           |
|                       | Emission duration: continuous                                                                                                                |
| Laser output          | Max 44.6 $\mu\text{W}$ *                                                                                                                     |
|                       | * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up block with 7 mm aperture. |
| Frequency response    | 2 Hz to 20 kHz $\pm 0.5 \text{ dB}$                                                                                                          |
| Signal-to-noise ratio | More than 102 dB                                                                                                                             |
| Dynamic range         | More than 98 dB                                                                                                                              |
| Harmonic distortion   | Less than 0.0045%                                                                                                                            |

#### Output

|                       | Jack type                | Maximum output level   | Load impedance      |
|-----------------------|--------------------------|------------------------|---------------------|
| LINE OUT              | Phono jacks              | 2V (at 50 k $\Omega$ ) | Over 10 k $\Omega$  |
| DIGITAL OUT (OPTICAL) | Optical output connector | -18 dBm                | Wave length: 660 nm |

#### General

| Where purchased                 | Power requirements                                     |
|---------------------------------|--------------------------------------------------------|
| USA and Canada                  | 120V AC, 60 Hz                                         |
| Europe and some Asian countries | 220V - 230V AC, 50/60 Hz                               |
| Other countries                 | 110V - 120V AC or 220V - 240V AC, adjustable, 50/60 Hz |

|                              |                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Power consumption            | 14 W                                                                                                                |
| Dimensions (approx.) (w/h/d) | 430 $\times$ 120 $\times$ 385 mm (17 $\times$ 4 $\frac{3}{4}$ $\times$ 15 $\frac{1}{4}$ in.) incl. projecting parts |
| Mass (approx.)               | 5.4 kg (11 lbs 15 oz)                                                                                               |

#### Supplied accessories

Audio cord (2 phono plugs-2 phono plugs) (1)  
Remote commander (remote) (1) (CDP-CE335 only)  
R6 (size AA) batteries (2) (CDP-CE335 only)

Design and specifications are subject to change without notice.



COMPACT DISC PLAYER

SONY®



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

**CAUTION**

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

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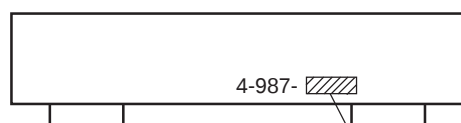
**SAFETY-RELATED COMPONENT WARNING!!**

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

**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**

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

## MODEL IDENTIFICATION — BACK PANEL —



|                          |          |
|--------------------------|----------|
| CDP-C591                 |          |
| US MODEL                 | : 618-7□ |
| CDP-CE235                |          |
| US MODEL                 | : 618-0□ |
| Canadian MODEL           | : 618-1□ |
| AEP,North European MODEL | : 618-2□ |
| UK MODEL                 | : 618-3□ |
| Australian MODEL         | : 618-4□ |
| E,Saudi Arabia MODEL     | : 618-5□ |
| Singapore MODEL          | : 618-6□ |
| CDP-CE335                |          |
| US MODEL                 | : 619-0□ |
| Canadian MODEL           | : 619-1□ |
| AEP,North European MODEL | : 619-2□ |
| UK MODEL                 | : 619-3□ |
| Australian MODEL         | : 619-4□ |
| E,Saudi Arabia MODEL     | : 619-5□ |
| Singapore MODEL          | : 619-6□ |

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

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

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

### NOTES ON LASER DIODE EMISSION CHECK

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

## SAFETY CHECK-OUT (US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

### LEAKAGE

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

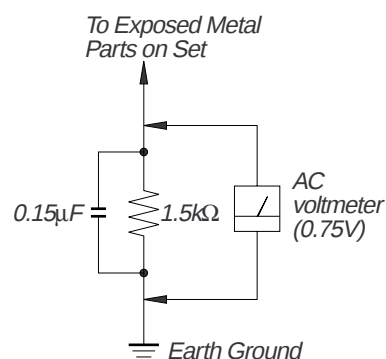
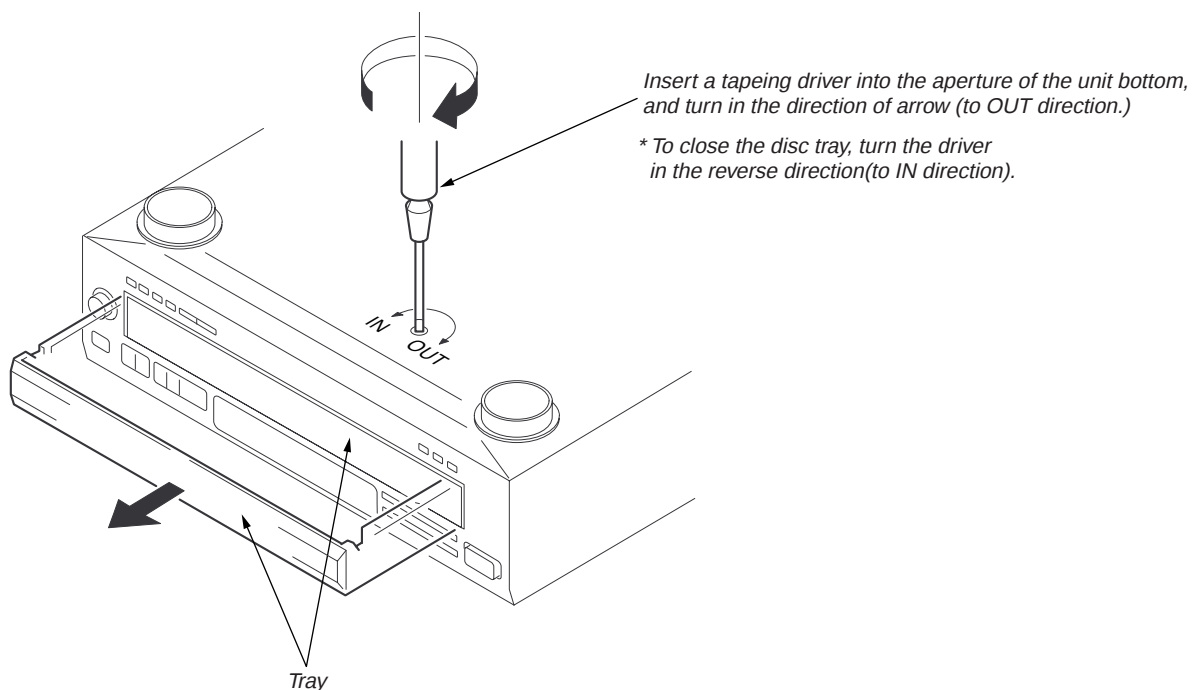
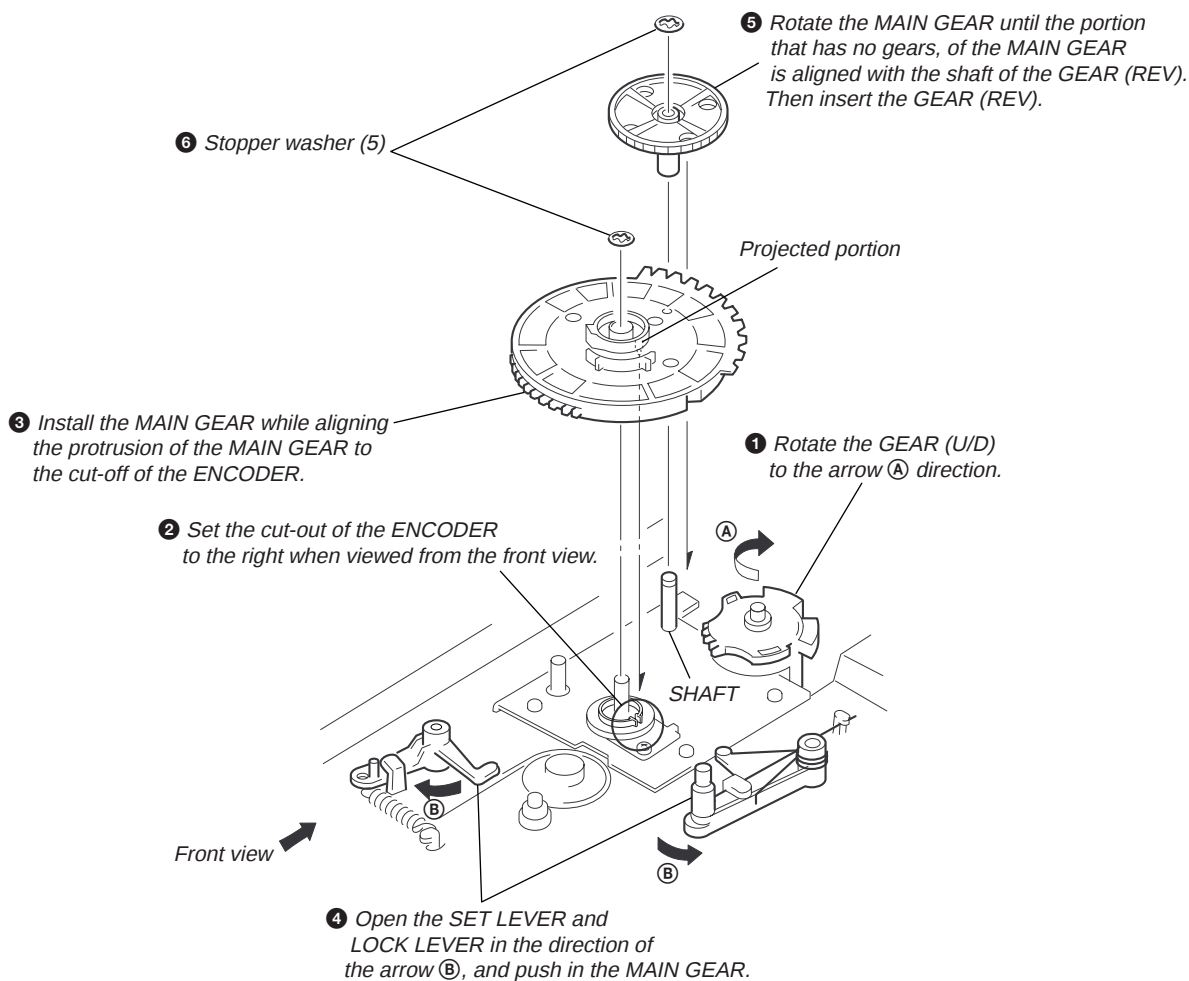


Fig. A. Using an AC voltmeter to check AC leakage.

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



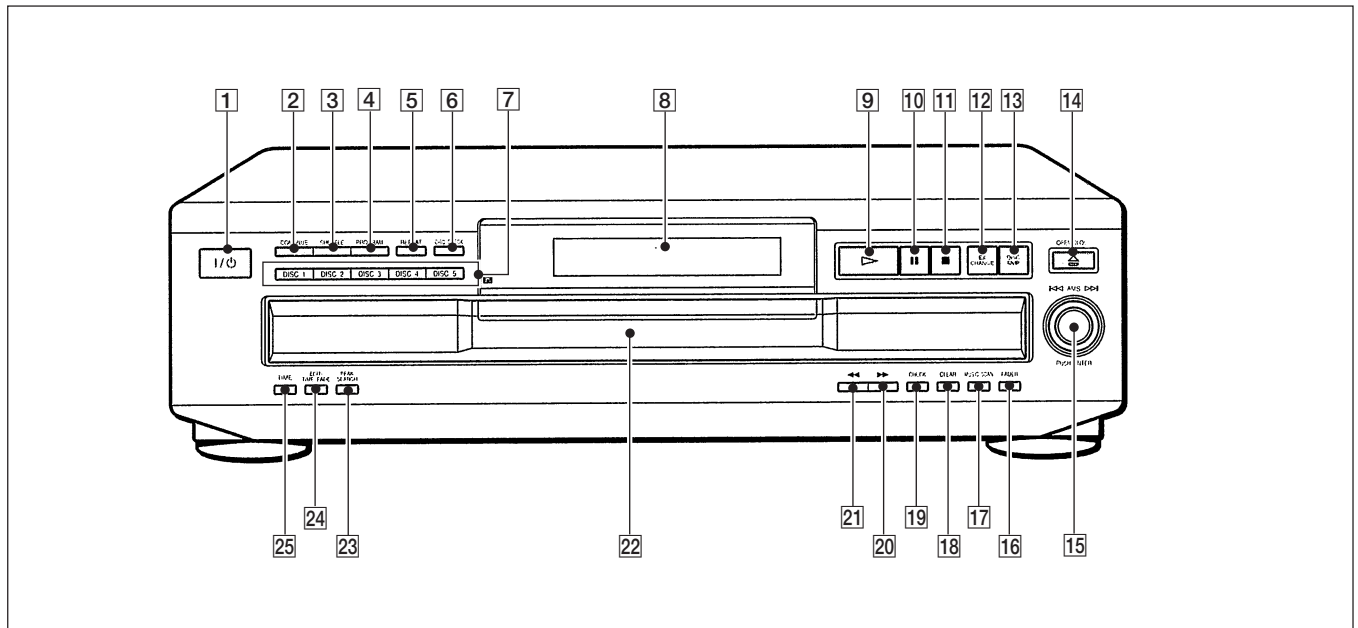
## NOTE FOR MAIN GEAR INSTALLATION



## SECTION 1 GENERAL

### Identifying the Parts

#### Front Panel

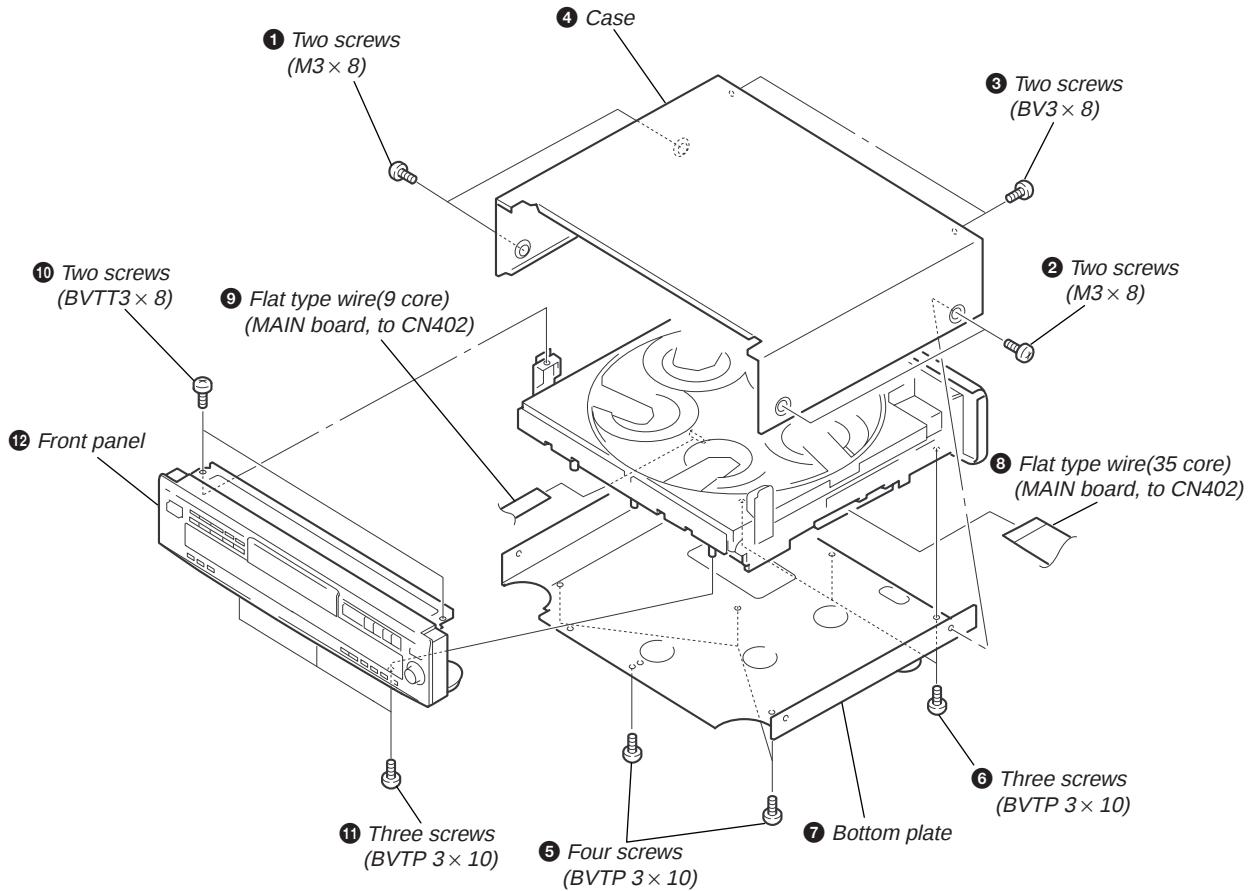


- |                      |                          |
|----------------------|--------------------------|
| 1 I/⏻ POWER switch   | 14 ▲ OPEN/CLOSE button   |
| 2 CONTINUE button    | 15 AMS knob              |
| 3 SHUFFLE button     | 16 FADER button          |
| 4 PROGRAM button     | 17 MUSIC SCAN button     |
| 5 REPEAT button      | 18 CLEAR button          |
| 6 DISC CHECK button  | 19 CHECK button          |
| 7 DISC 1-5 button    | 20 ►► (forward) button   |
| 8 Display window     | 21 ◀◀ (backward) button  |
| 9 ► (play) button    | 22 Disc tray             |
| 10    (pause) button | 23 PEAK SEARCH button    |
| 11 ■ (stop) button   | 24 EDIT/TIME FADE button |
| 12 EX-CHANGE button  | 25 TIME button           |
| 13 DISC SKIP button  |                          |

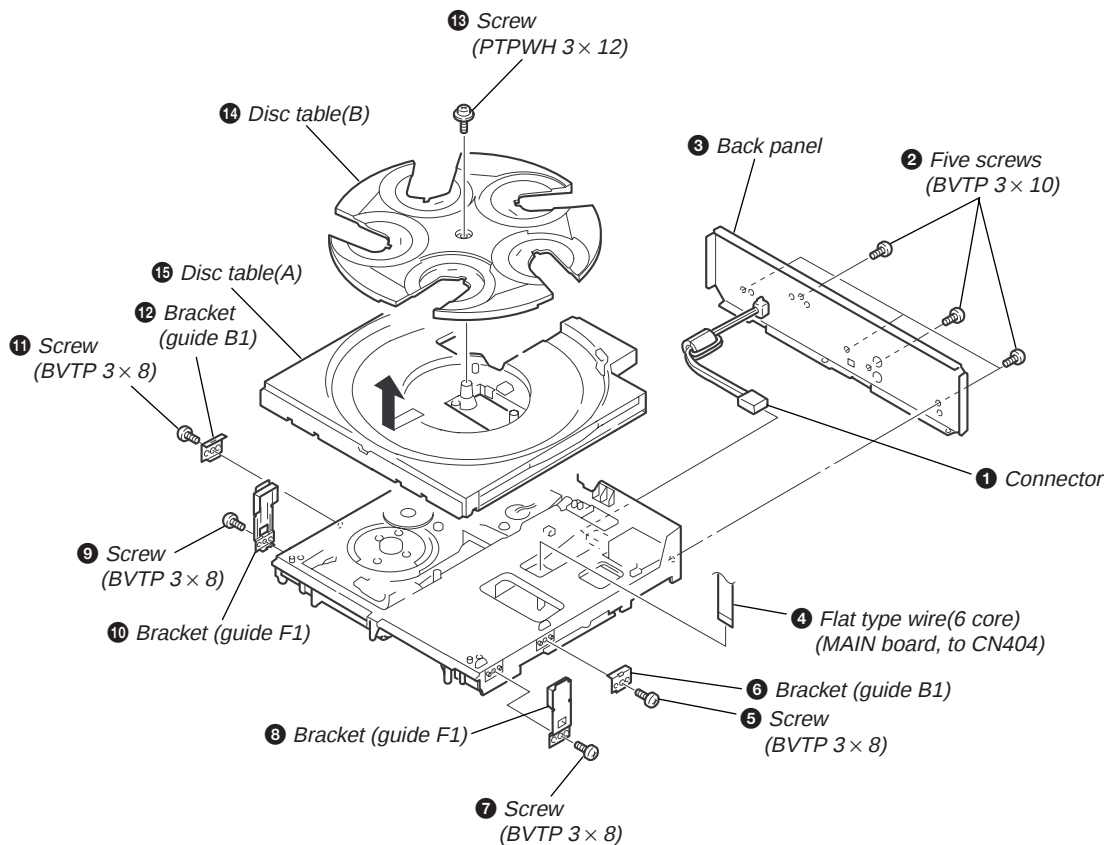
## SECTION 2 DISASSEMBLY

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

### 2-1. CASE, BOTTOM PLATE AND FRONT PANEL

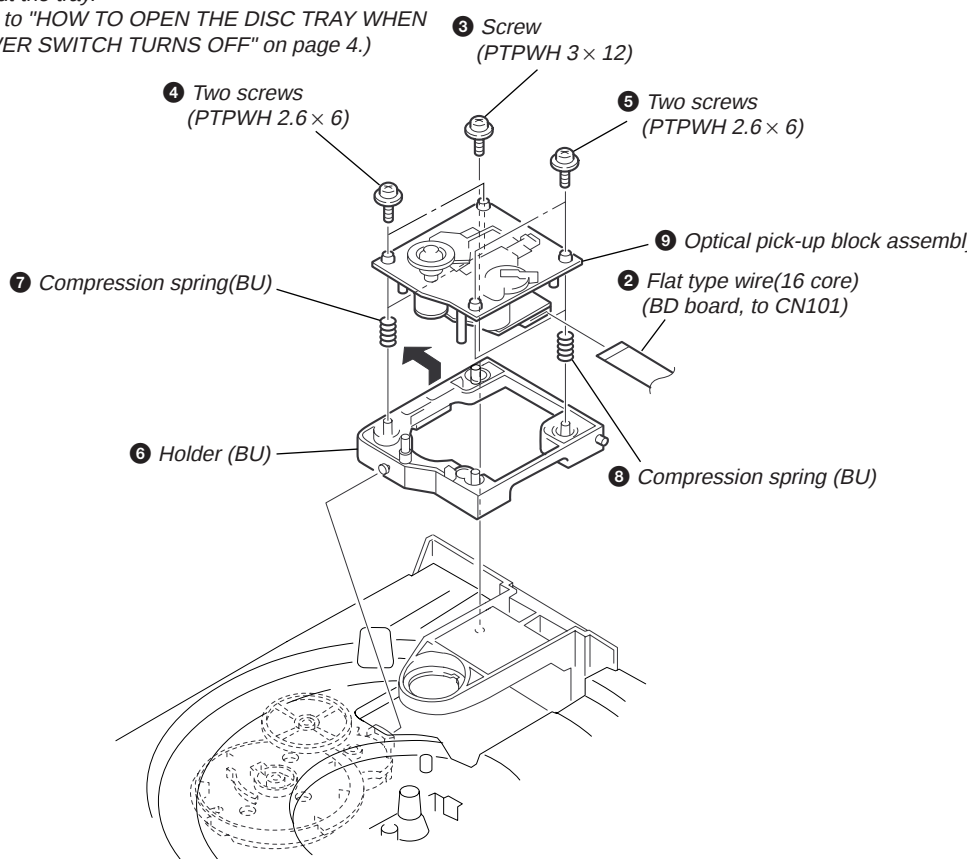


### 2-2. BACK PANEL AND DISC TABLE

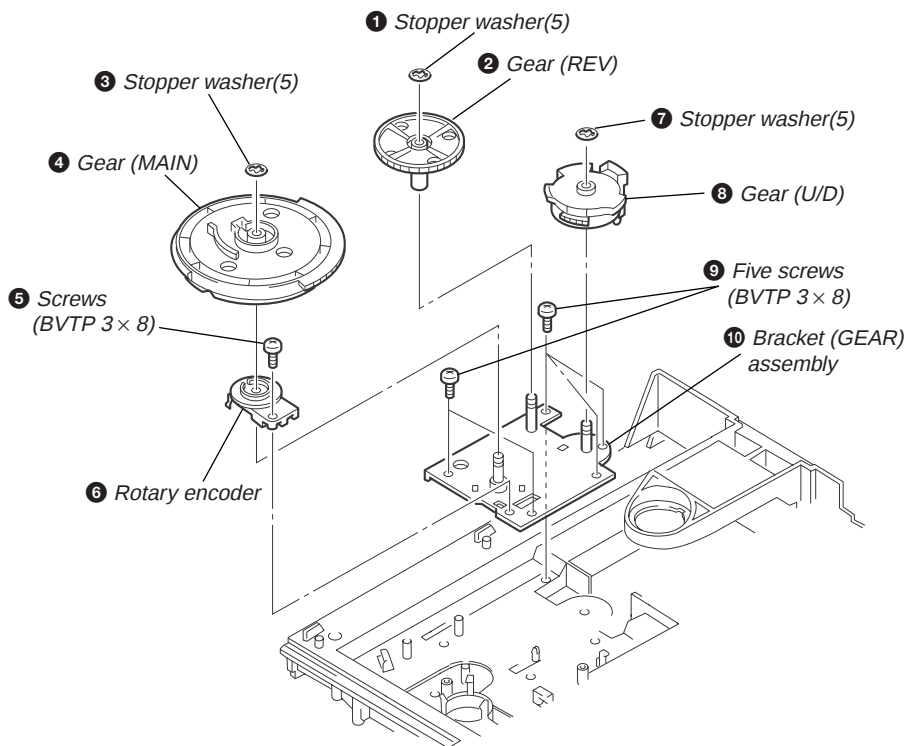


## 2-3. OPTICAL PICK-UP BLOCK ASSEMBLY

① Pull out the tray.  
(Refer to "HOW TO OPEN THE DISC TRAY WHEN  
POWER SWITCH TURNS OFF" on page 4.)



## 2-4. BRACKET (GEAR) ASSEMBLY



Note : As for the installation of the main gear, refer to "Note for MAIN  
GEAR installation" on page 4.

## SECTION 3 TEST MODE

### ① ADJ Mode

When the main power is turned on while the ADJ terminal is set to LOW, the CDP-C591/CE235/335 enters the ADJ mode that enables to implement the servo related checks.

The disk tray is not loaded or rotated.  
The fifth program is automatically played back.

The following items are valid even when the main power is turned on first and the ADJ terminal is then set to LOW.

The high speed search cannot be performed.  
The focus servo gain is not decreased.  
CLV servo gain is not decreased.  
GFS is ignored even if it is set to the LOW.  
Q data is ignored even if it cannot be read.  
Switching of the monitor terminal is possible.  
Every pressing of the FADER key advances the MONITOR terminal in the following order.  
RFCK→GFC→Error rate  
When “3” of the remote controller is pressed, the tracking servo is turned off.  
When “8” of the remote controller is pressed, the tracking servo is turned on.

\* The servo related items cannot be checked in the CDP-C591/CE235/335.

### ② Key Check and Display Check Mode

When the main power is turned on while the AFADJ terminal is set to LOW, the CDP-C591/CE235/335 enters the key check and display check mode in which keys and displays can be checked.

First, all display tubes turn on.  
When any key is pressed after display tubes are turned on, the number of the keys that have been pressed appear on the left and the key number appears on the right.  
(Pushing the JOG key is counted as one of the keys.)  
However, the following keys are treated as the special keys that show the different operations.  
STOP : All display turn-on check  
PLAY : Grid check  
PAUSE : Segment check  
JOG : Calendar check

When receiving a signal from remote controller, the display “[]- \*\*” appears.  
(Number of asterisks \*\* changes depending on the pressed key. For example, \*\* is 50 when the PLAY key is pressed.)

### ③ Default Shipment Mode

When the main power is turned on while pressing the DISCSKIP and the PROGRAM keys, the CDP-C591/CE235/335 enters the default shipment mode in which the default settings when shipped from the factory are set.

Move the DISC 1 to the front and stop the machine. When the message “NODISC” appears, it indicates that the mode has ended with success.

### ④ Aging Mode

When the OPEN key is pressed while the DISC1 and the CHECK keys are being pressed with the main power being turned ON, the CDP-C591/CE235/335 enters the aging mode in which aging is performed in the following sequence.

|                                      |                      |
|--------------------------------------|----------------------|
| Reads TOC                            | A-1                  |
| Accesses the last program            | A-2                  |
| Plays the last program for 3 seconds | PLAY display appears |
| EX-CHANGE                            | A-4                  |
| DISCSKIP                             | A-5                  |
| CLOSE                                | A-6                  |
| Accesses the first program           | A-7                  |
| Playback the first program           | PLAY display appears |
| OPEN                                 | A-9                  |
| DISPSKIP                             | A-A                  |
| CLOSE                                | A-0                  |

When an error occurs during aging, the message “Err-\*” appears and the operation is stopped.  
The system does not accept any key operations during aging.

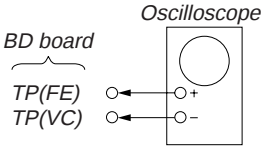
# SECTION 4

## ELECTRICAL BLOCK CHECKING

Note :

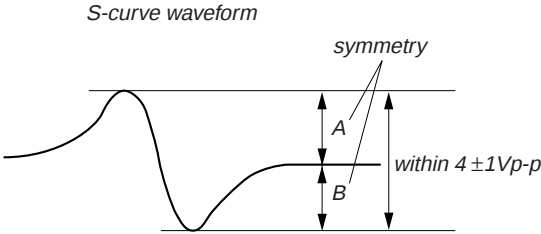
1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal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

### S-Curve Check



#### Procedure :

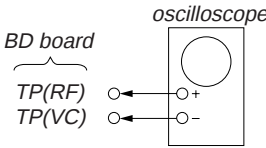
1. Connect oscilloscope to TP (FE).
2. Connect between TP (FE1) and TP (VC) by lead wire.
3. Connect between TP (AGCCON) and TP (GND) by lead wire.
4. Turn Power switch on.
5. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
6. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within  $4 \pm 1$  Vp-p.



7. After check, remove the lead wire connected in step 2 and 3.

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.

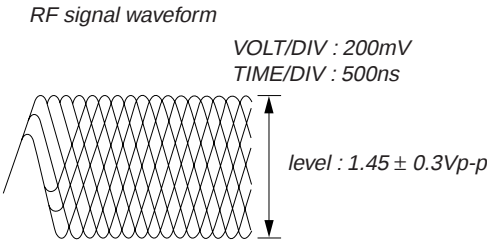
### RF Level Check



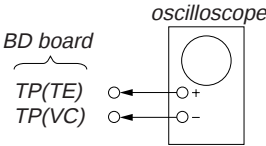
#### Procedure :

1. Connect oscilloscope to TP (RF).
2. Connect between TP (AGCCON) and TP (GND) by lead wire.
3. Turned Power switch on.
4. Load a disc (YEDS-18) and playback.
5. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.
6. After check, remove the lead wire connected in step 2.

Note : Clear RF signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.

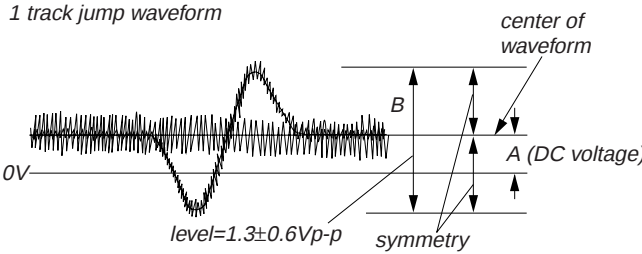


### E-F Balance (1 Track jump) Check



#### Procedure :

1. Connect oscilloscope to TP (TE) and TP (VC).
2. Turned Power switch on.
3. Load a disc (YEDS-18) and playback the number five track.
4. Press the [▶] button. (Becomes the 1 track jump mode.)
5. Confirm that the level B and A (DC voltage) on the oscilloscope waveform.

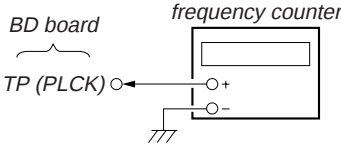


Specified level:  $\frac{A}{B} \times 100 = \text{less than } \pm 22\%$

### RF PLL Free-run Frequency Check

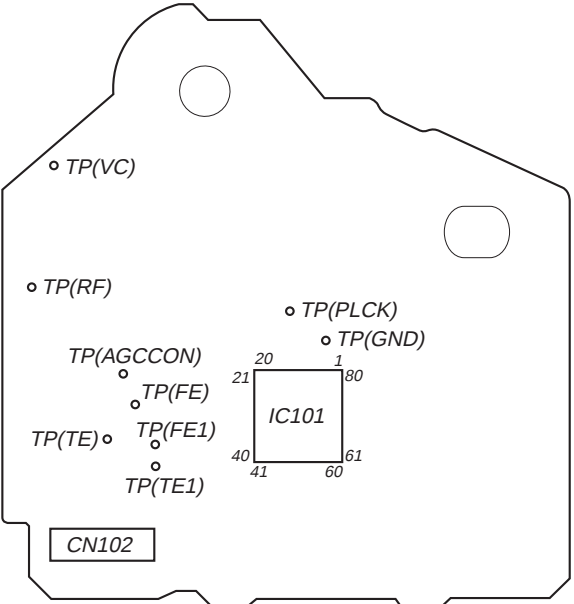
#### Procedure :

1. Connect frequency counter to TP (PLCK) with lead wire.
2. Turned Power switch on.
3. Put the disc (YEDS-18) in to play the number five track. Confirm that reading on frequency counter is 4.3218MHz.



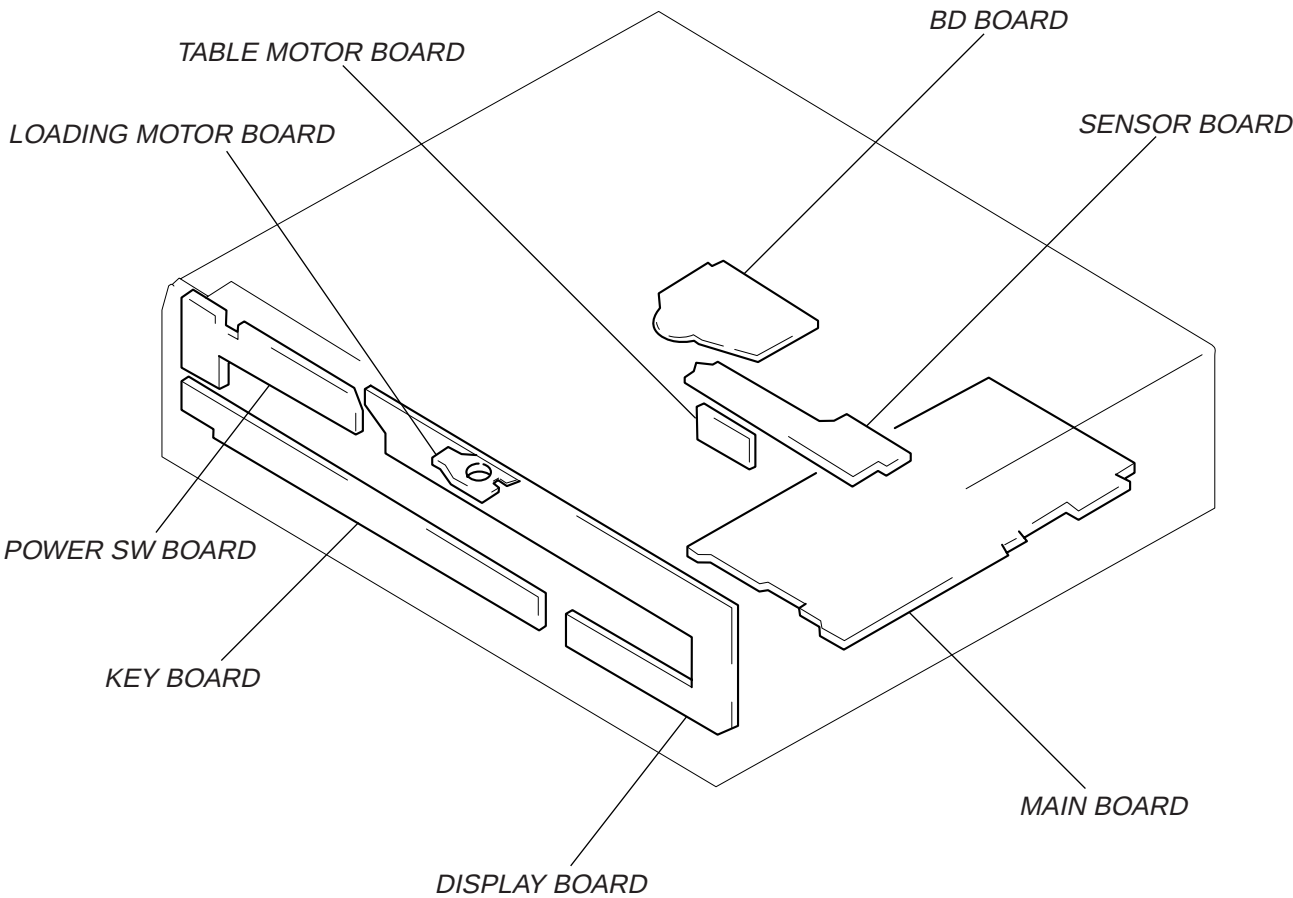
### Adjustment Location :

[ BD BOARD ] — Conductor Side —



SECTION 5  
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING  
BOARDS AND SCHEMATIC DIAGRAMS.  
(In addition to this necessary note is printed in  
each block)

**Note on Schematic Diagram:**

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

**Note:**

The components identi-  
fied by mark  $\Delta$  or dotted  
line with mark  $\Delta$  are criti-  
cal 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.

**Note on Printed Wiring Boards:**

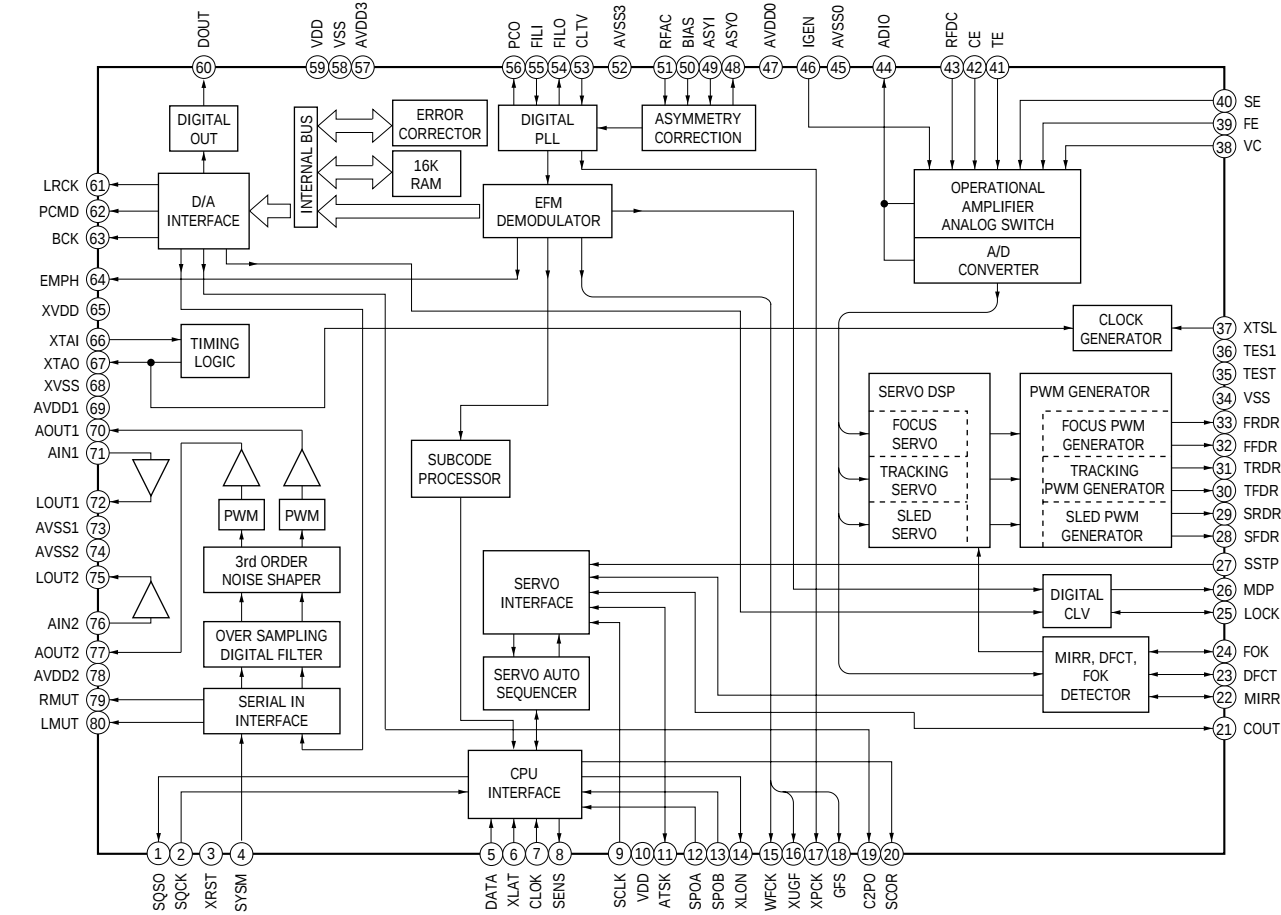
- : parts extracted from the component side.
- $\Delta$  : internal component.
- : Pattern from the side which enables seeing.

- B+ : B+ Line.
- B- : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance  $10\text{ M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - : CD
  - : CD DIGITAL
- Abbreviation
  - CND : Canadian
  - AED : North European
  - AUS : Aurstrarian
  - EA : Saudi Arabia
  - SP : Singapore

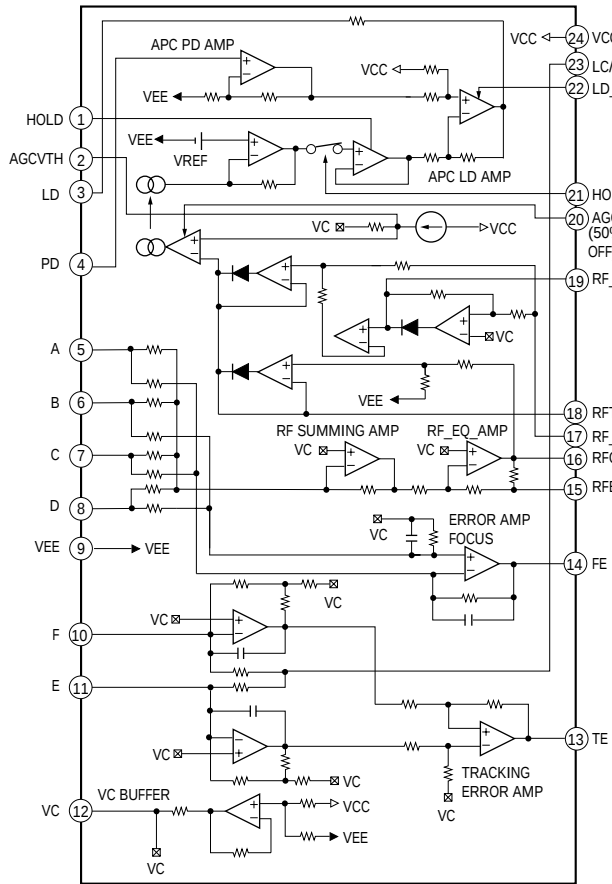
5-2. IC BLOCK DIAGRAMS

BD board

IC101 CXD2587Q

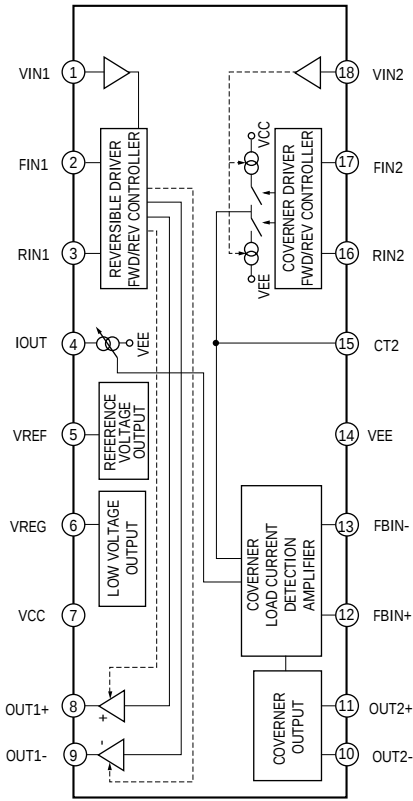


IC103 CXA2568M-T6

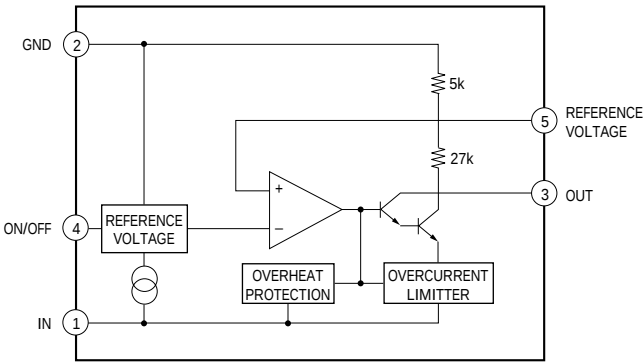


MAIN board

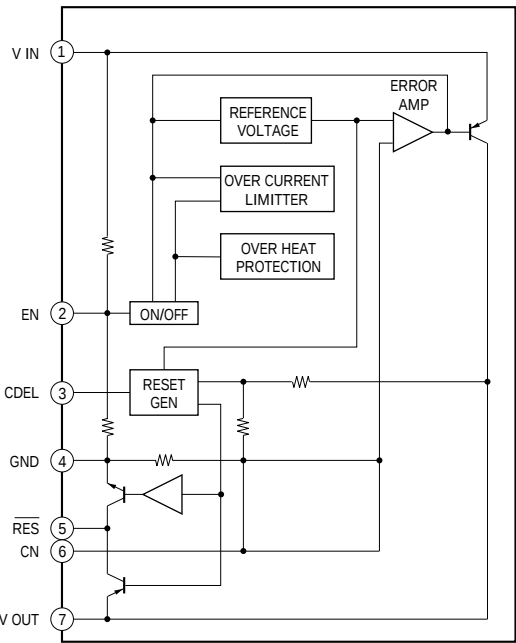
IC304 BA6780



IC603 M5293L

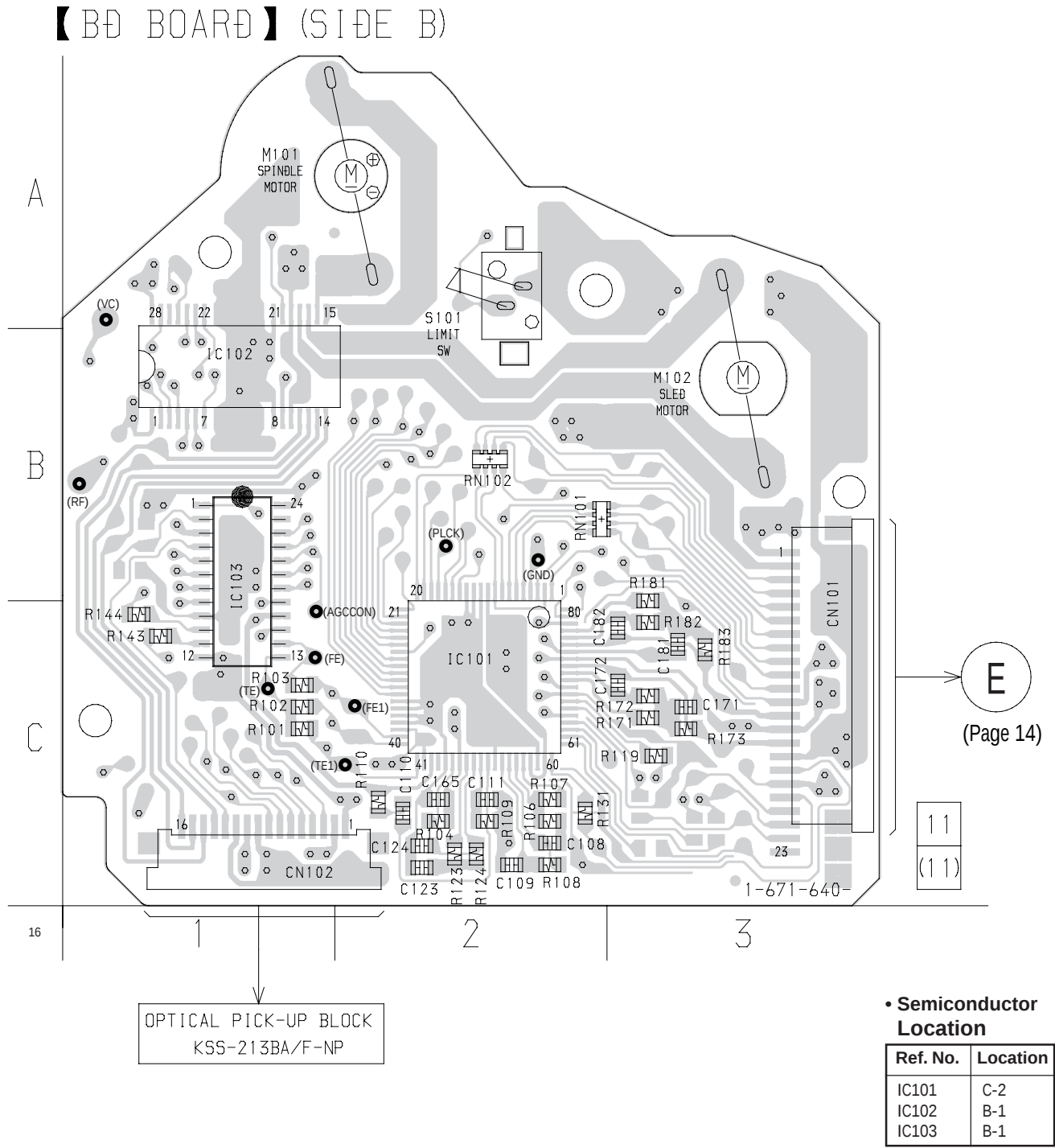
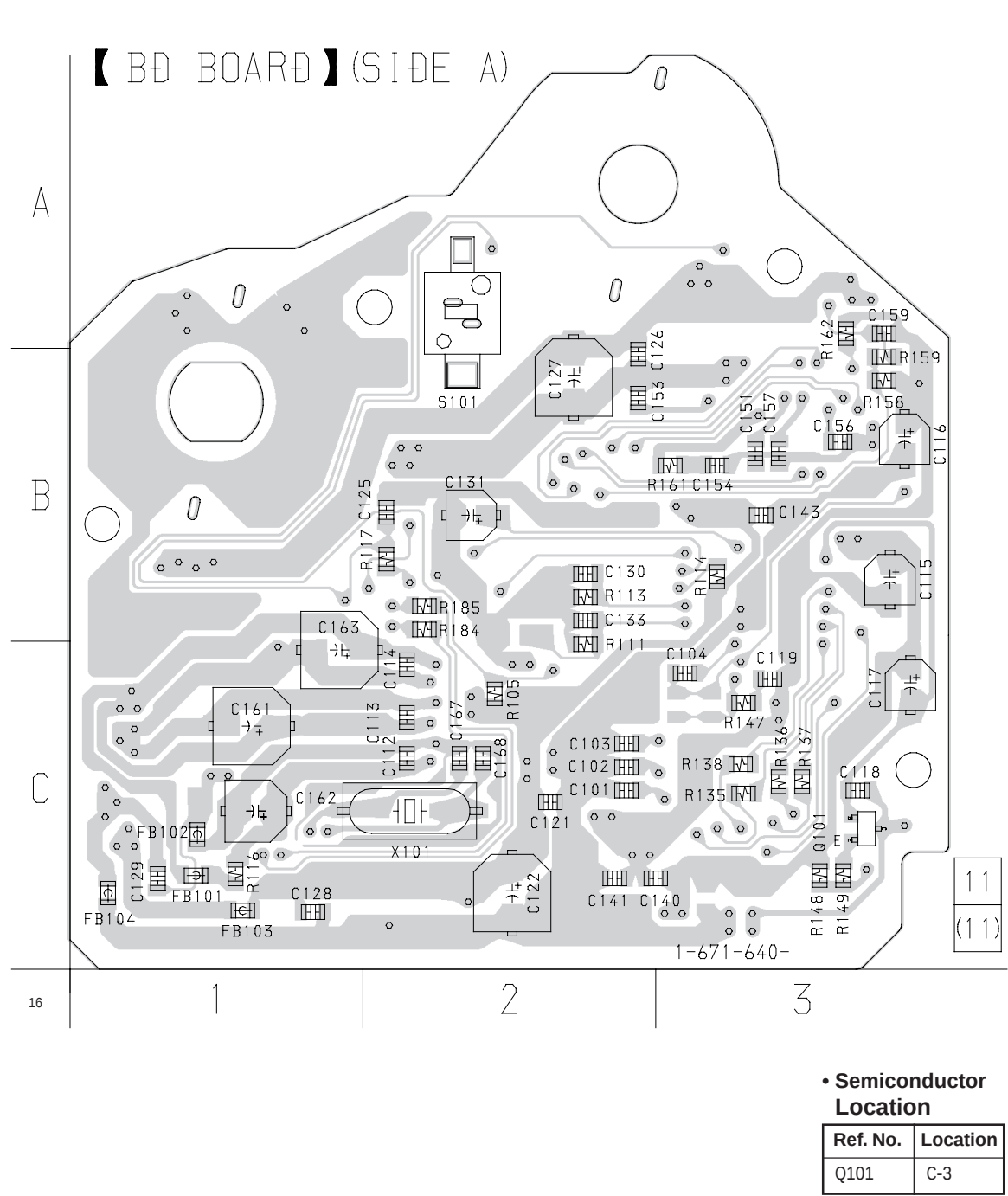


IC601 LA5602



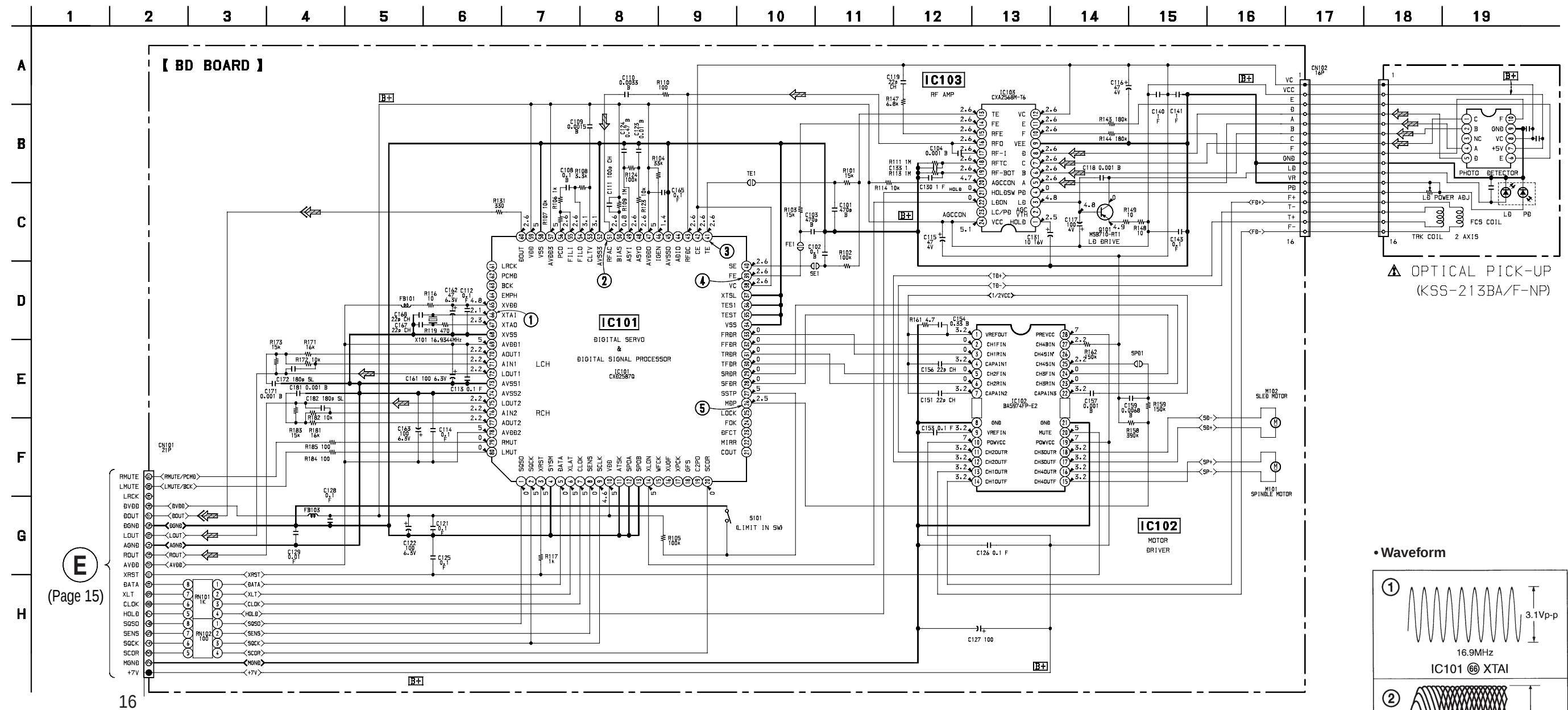
5-3. PRINTED WIRING BOARD – BD SECTION –

- See page 10 for Circuit Board Location.

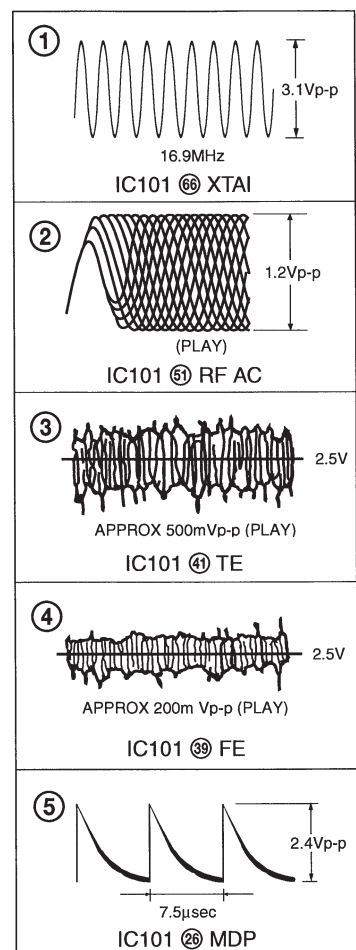


#### 5-4. SCHEMATIC DIAGRAM – BD SECTION –

- See page 11 for IC Block Diagrams.

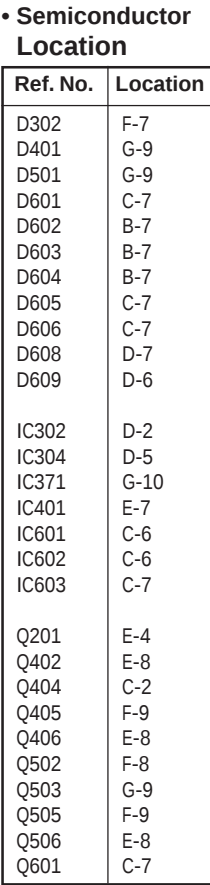


- **Waveform**



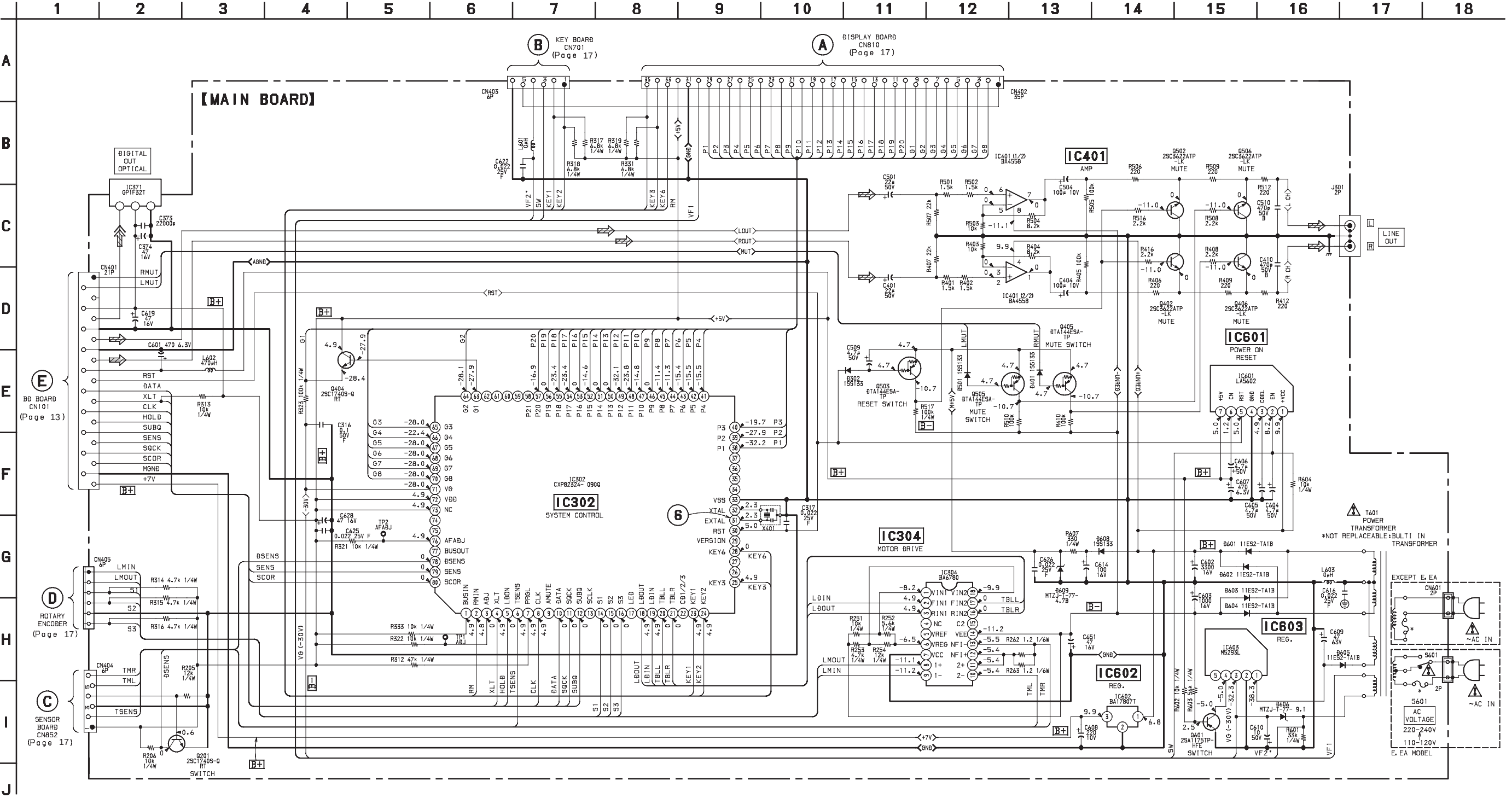
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

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



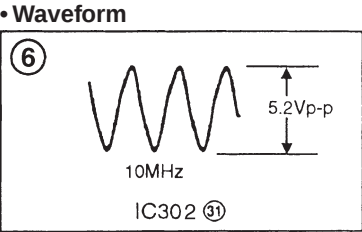
5-6. SCHEMATIC DIAGRAM – MAIN SECTION –

- See page 11 for IC Block Diagrams.
- See page 18 for IC Pin Function. (IC302)



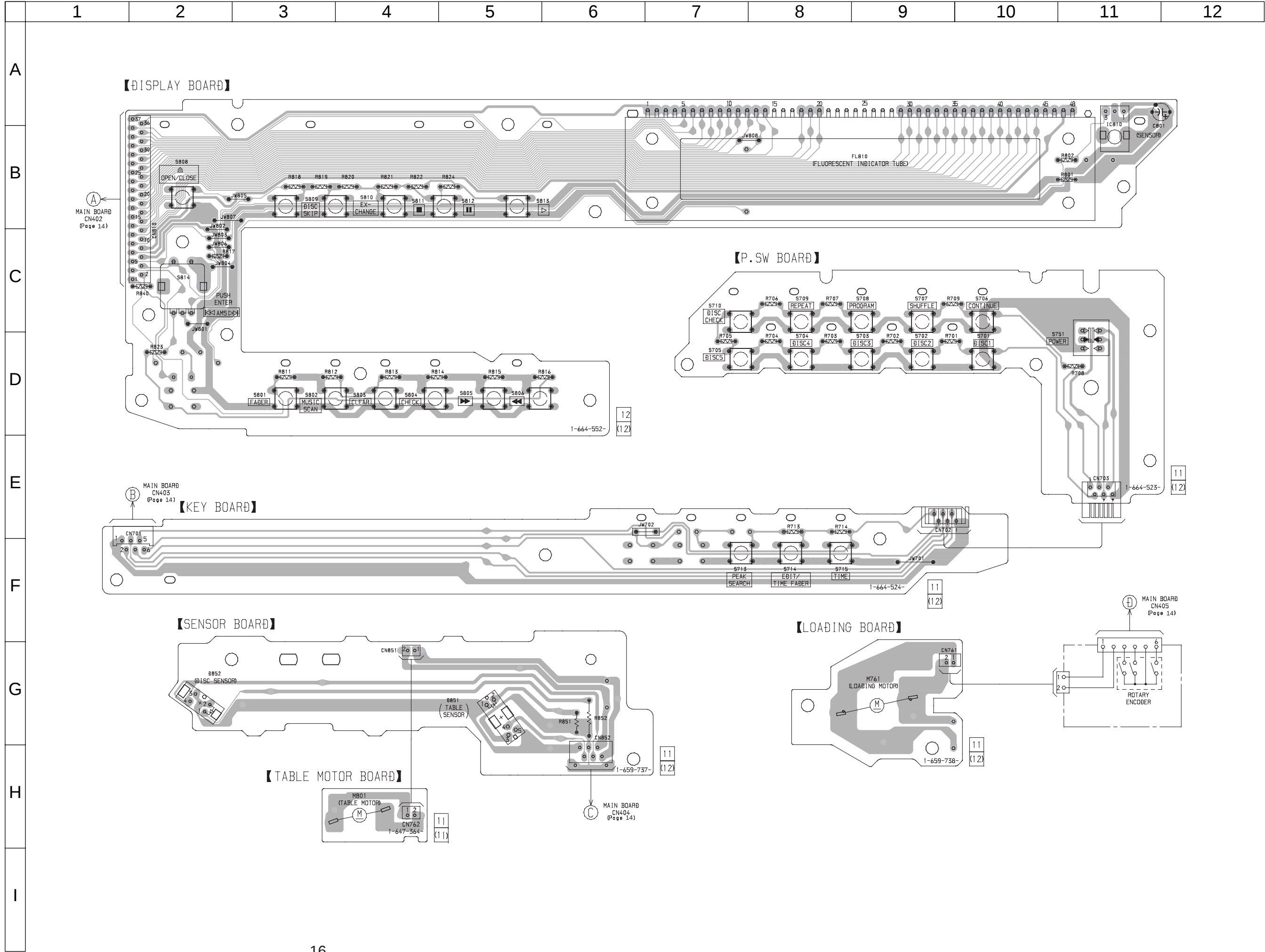
The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

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

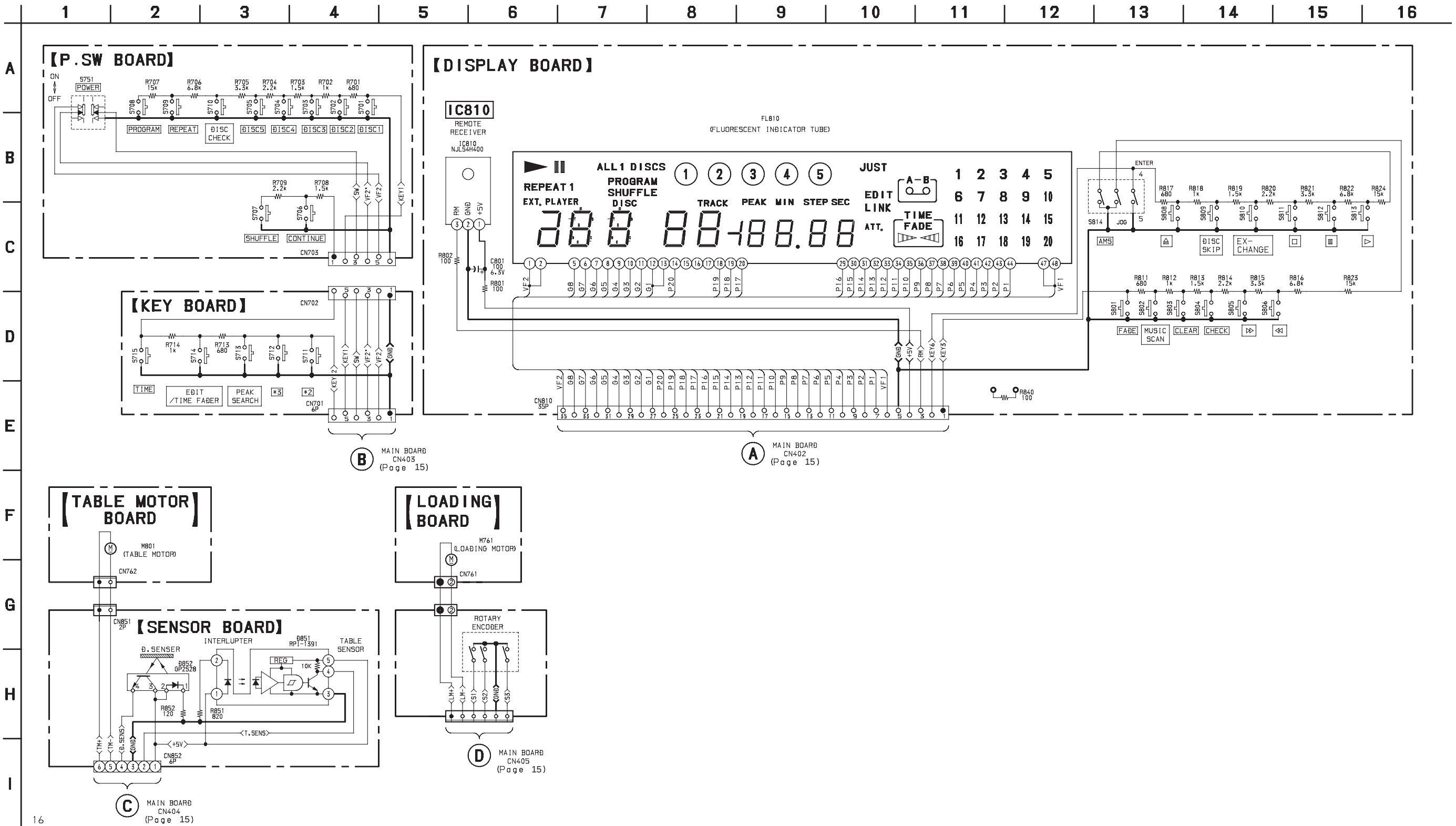


5-7. PRINTED WIRING BOARD – DISPLAY SECTION –

• See page 10 for Circuit Board Location.



5-8. SCHEMATIC DIAGRAM – DISPLAY SECTION –



5-9. IC PIN FUNCTION

• IC302 SYSTEM CONTROL (CXP82324-090Q)(MAIN board)

| Pin No.  | Pin Name | I/O | Function                                                |
|----------|----------|-----|---------------------------------------------------------|
| 1        | BUS IN   | I   | Not used. (Pull up)                                     |
| 2        | RM IN    | I   | Remote control signal input                             |
| 3        | ADJ      | I   | ADJ mode setting pin                                    |
| 4        | XLT      | O   | CXD2587 latch output                                    |
| 5        | LD ON    | O   | Laser diode ON output                                   |
| 6        | TSENS    | I   | Table position sensor input                             |
| 7        | PRGL     | O   | Not used. (Pull up)                                     |
| 8        | CLK      | O   | CXD2587 serial clock output                             |
| 9        | AMUTE    | O   | Mute output pin                                         |
| 10       | DATA     | O   | CXD2587 serial data output                              |
| 11       | SQCK     | O   | Subcode Q read clock                                    |
| 12       | SUBQ     | I   | Subcode Q read data input                               |
| 13       | SCLK     | O   | Not used. (Open)                                        |
| 14       | S1       | I   | CDM27 table rotary encoder input 1                      |
| 15       | S2       | I   | CDM27 table rotary encoder input 2                      |
| 16       | S3       | I   | CDM27 table rotary encoder input 3                      |
| 17       | LED      | O   | Not used. (Open)                                        |
| 18       | LDOUT    | O   | Loading-out output                                      |
| 19       | LDIN     | O   | Loading-in output                                       |
| 20       | TBLL     | O   | Rotary table rotation counter-clockwise rotation output |
| 21       | TBLR     | O   | Rotary table rotation clockwise rotation output         |
| 22       | CD123    | I   | Not used. (Pull up)                                     |
| 23       | KEY1     | I   | A/D input 1 for key input                               |
| 24       | KEY2     | I   | A/D input 2 for key input                               |
| 25       | KEY3     | I   | A/D input 3 for key input                               |
| 26       | KEY4     | O   | Not used. (Open)                                        |
| 27       | KEY5     | O   | Not used. (Open)                                        |
| 28       | KEY6     | I   | A/D input 6 for key input                               |
| 29       | VERSION  | I   | Version setting input pin (Open)                        |
| 30       | XRST     | I   | Reset input                                             |
| 31       | EXTAL    | —   | Oscillator connection pin                               |
| 32       | XTAL     | —   | Oscillator connection pin                               |
| 33       | Vss      | —   | Ground                                                  |
| 34 to 37 | NC       | O   | Not used. (Open)                                        |
| 38       | P1       | O   | FL display tube segmant output 1                        |
| 39       | P2       | O   | FL display tube segmant output 2                        |
| 40       | P3       | O   | FL display tube segmant output 3                        |

| Pin No.  | Pin Name | I/O | Function                                 |
|----------|----------|-----|------------------------------------------|
| 41       | P4       | O   | FL display tube segmant output 4         |
| 42       | P5       | O   | FL display tube segmant output 5         |
| 43       | P6       | O   | FL display tube segmant output 6         |
| 44       | P7       | O   | FL display tube segmant output 7         |
| 45       | P8       | O   | FL display tube segmant output 8         |
| 46       | P9       | O   | FL display tube segmant output 9         |
| 47       | P10      | O   | FL display tube segmant output 10        |
| 48       | P11      | O   | FL display tube segmant output 11        |
| 49       | P12      | O   | FL display tube segmant output 12        |
| 50       | P13      | O   | FL display tube segmant output 13        |
| 51       | P14      | O   | FL display tube segmant output 14        |
| 52       | P15      | O   | FL display tube segmant output 15        |
| 53       | P16      | O   | FL display tube segmant output 16        |
| 54       | P17      | O   | FL display tube segmant output 17        |
| 55       | P18      | O   | FL display tube segmant output 18        |
| 56       | P19      | O   | FL display tube segmant output 19        |
| 57       | P20      | O   | FL display tube segmant output 20        |
| 58 to 62 | NC       | O   | Not used. (Open)                         |
| 63       | G1       | O   | FL display tube grid output 1            |
| 64       | G2       | O   | FL display tube grid output 2            |
| 65       | G3       | O   | FL display tube grid output 3            |
| 66       | G4       | O   | FL display tube grid output 4            |
| 67       | G5       | O   | FL display tube grid output 5            |
| 68       | G6       | O   | FL display tube grid output 6            |
| 69       | G7       | O   | FL display tube grid output 7            |
| 70       | G8       | O   | FL display tube grid output 8            |
| 71       | VG       | —   | FL display tube filament voltage (−30 V) |
| 72       | VDD      | —   | +5V                                      |
| 73       | NC       | —   | +5V                                      |
| 74       | NC       | O   | Not used. (Open)                         |
| 75       | NC       | O   | Not used. (Open)                         |
| 76       | AFADJ    | I   | AFADJ mode setting pin                   |
| 77       | BUS OUT  | O   | Not used. (Open)                         |
| 78       | DSENS    | I   | Disc sensor input                        |
| 79       | SENS     | I   | CXD2587 internal state monitor input     |
| 80       | SCOR     | I   | Subcode sync. input                      |

## SECTION 6 EXPLODED VIEWS

### NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

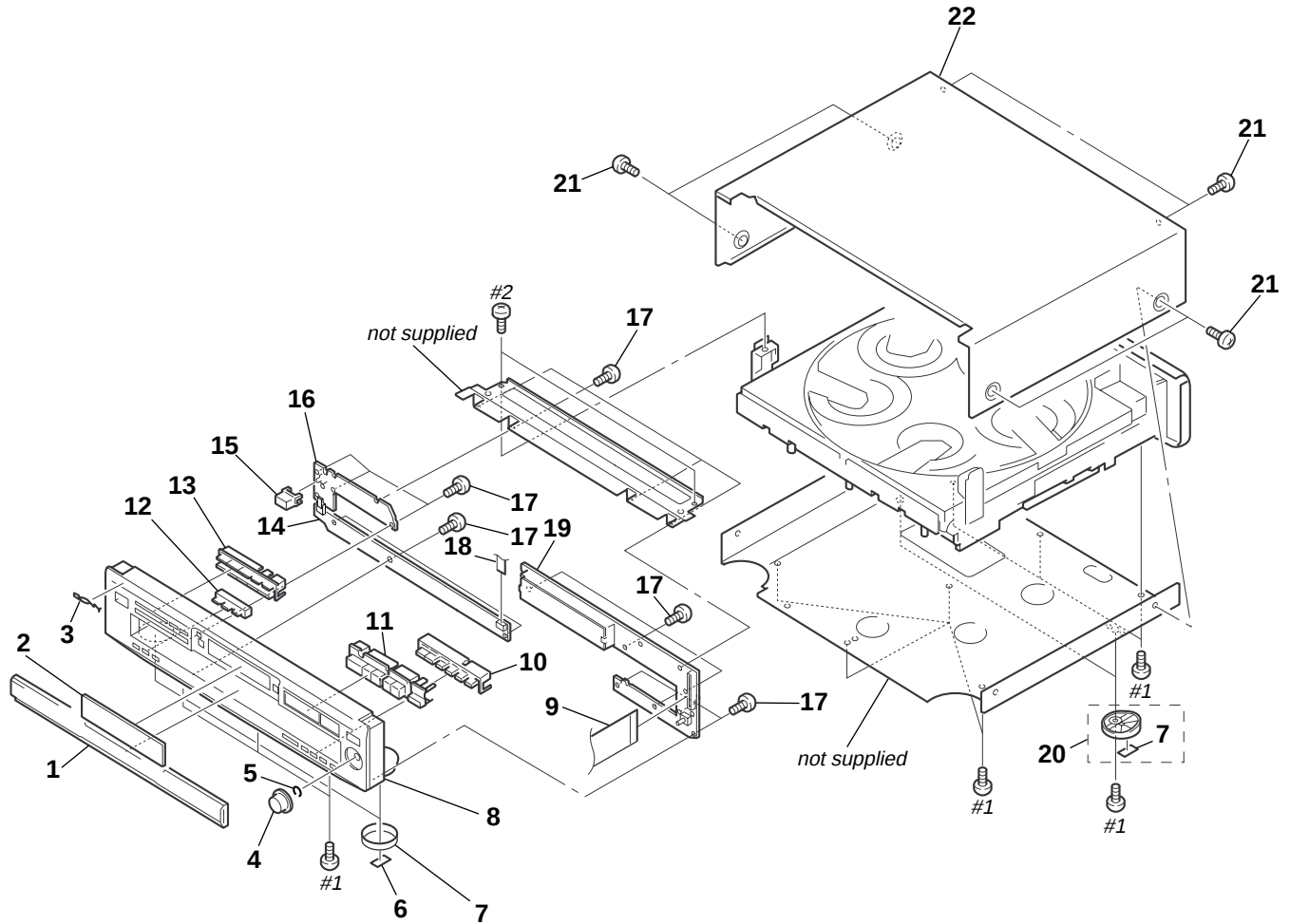
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation  
CND : Canadian  
AED : North European  
AUS : Australian  
EA : Saudi Arabia  
SP : Singapore

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

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

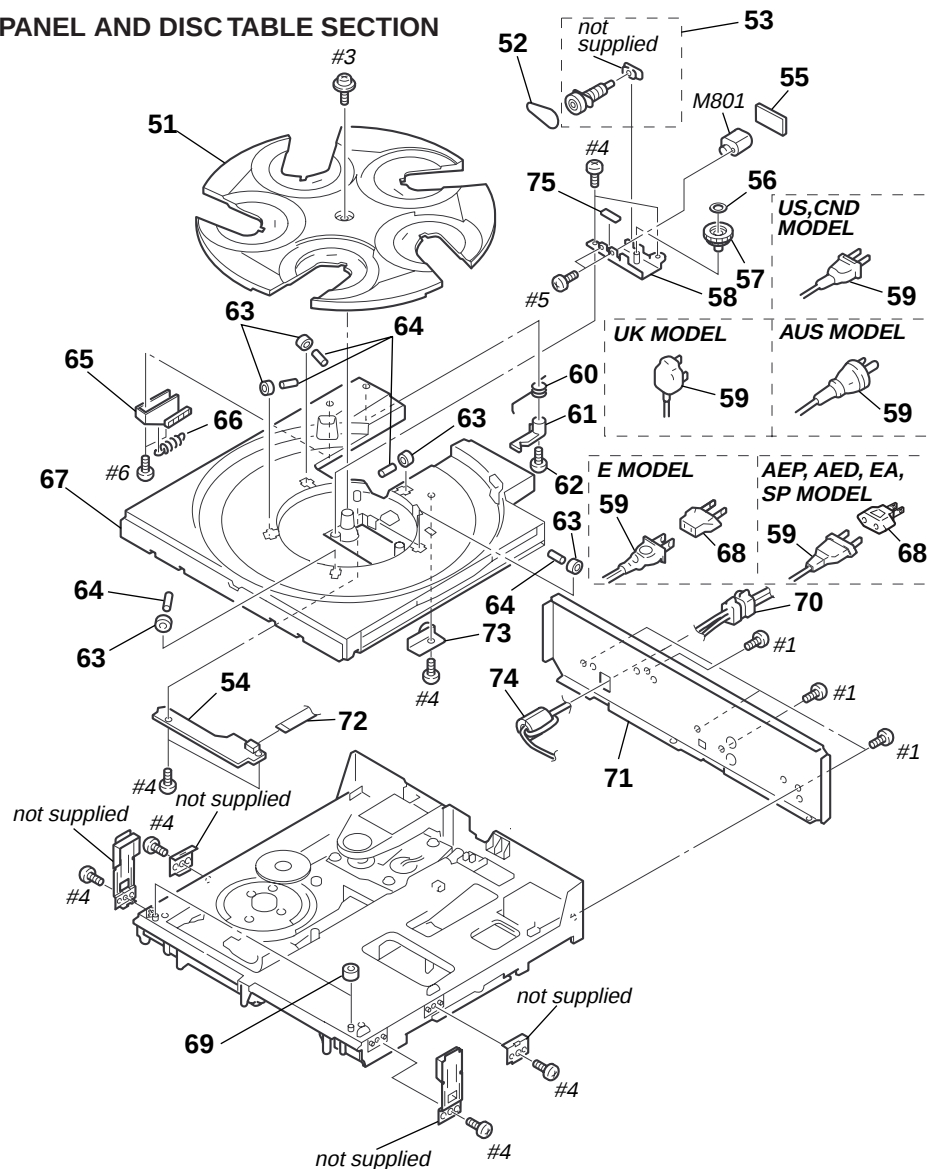
Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

### 6-1. FRONT PANEL AND CASE SECTION



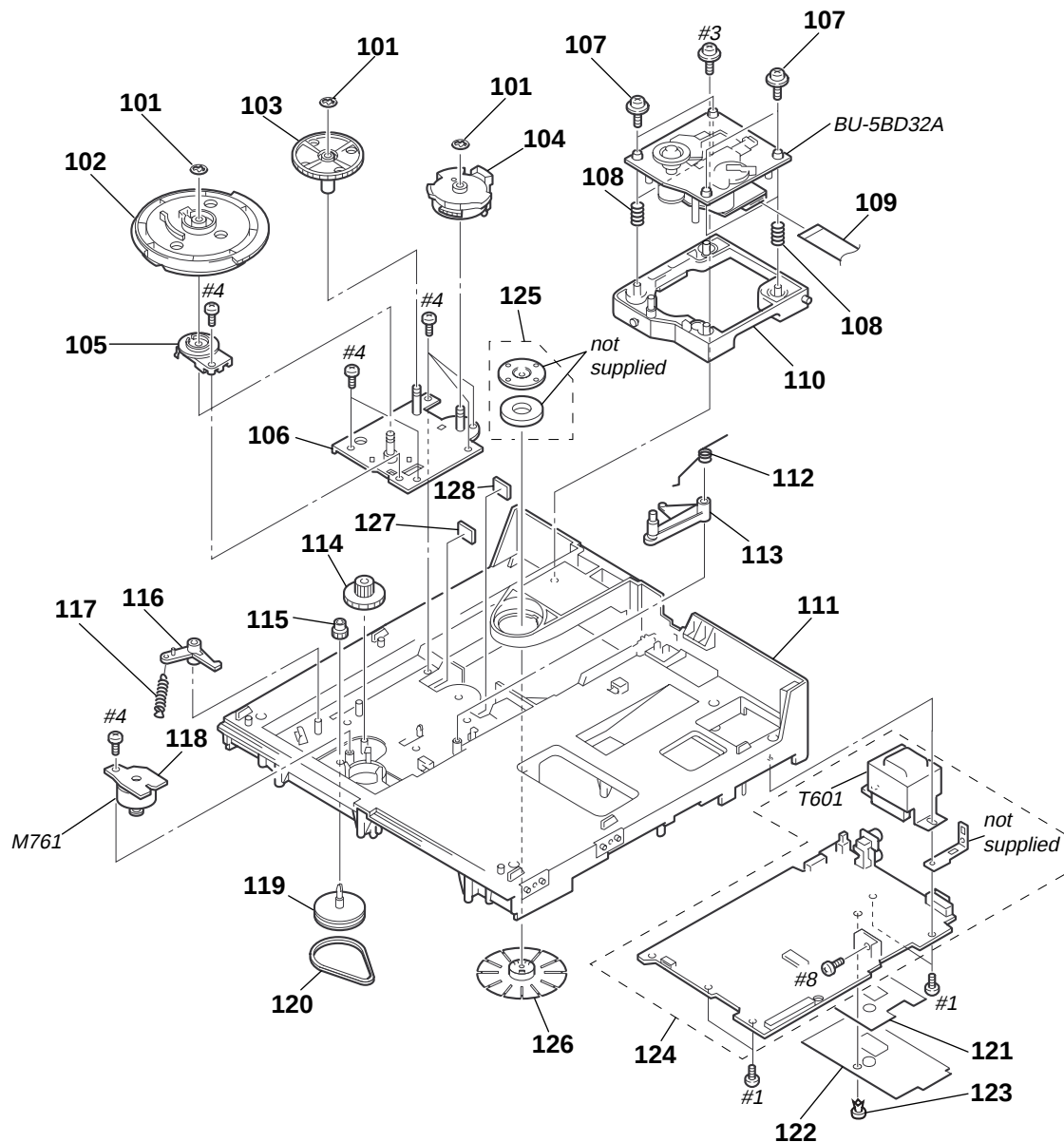
| Ref. No. | Part No.     | Description               | Remarks         | Ref. No. | Part No.     | Description              | Remarks |
|----------|--------------|---------------------------|-----------------|----------|--------------|--------------------------|---------|
| 1        | 4-997-437-11 | PANEL, LOADING            |                 | 11       | 4-987-775-01 | BUTTON (PLAY)            |         |
| 2        | 4-987-779-01 | WINDOW (FL)(CE235,C591)   |                 | 12       | 4-987-776-01 | BUTTON (FUNC)            |         |
| 2        | 4-987-779-11 | WINDOW (FL)(CE335)        |                 | 13       | 4-987-774-01 | BUTTON (MODE)            |         |
| 3        | 3-008-600-01 | EMBLEM (5-AR), SONY       |                 | * 14     | 1-664-524-11 | KEY BOARD                |         |
| 4        | 4-987-994-01 | KNOB(AMS)                 |                 | 15       | 4-999-354-01 | BUTTON (POWER)           |         |
| 5        | 3-354-981-01 | SPRING (SUS), RING        |                 | * 16     | 1-664-523-11 | P.S.W BOARD              |         |
| * 6      | 4-978-398-21 | CUSHION                   |                 | 17       | 4-951-620-01 | SCREW (2.6 × 8), +BVTP   |         |
| 7        | 4-977-593-01 | RING(DIA. 50), ORNAMENTAL | (EXCEPT US,CND) | 18       | 1-777-838-11 | WIRE(FLAT TYPE) (6 CORE) |         |
| 8        | 4-997-418-11 | PANEL, FRONT(CE235)       |                 | * 19     | A-4699-474-A | DISPLAY BOARD, COMPLETE  |         |
| 8        | 4-997-418-21 | PANEL, FRONT(CE335)       |                 | 20       | X-4946-618-1 | FOOT ASSY(US,CND)        |         |
| 8        | 4-997-418-41 | PANEL, FRONT(C591)        |                 | 20       | X-4946-641-1 | FOOT ASSY(EXCEPT US,CND) |         |
| 9        | 1-777-837-11 | WIRE(FLAT TYPE) (35 CORE) |                 | 21       | 4-210-291-01 | SCREW (CASE 3 TP2)       |         |
| 10       | 4-987-777-01 | BUTTON (FF)               |                 | * 22     | 4-978-492-11 | CASE                     |         |

## 6-2. BACK PANEL AND DISC TABLE SECTION



| Ref. No. | Part No.     | Description                | Remarks | Ref. No.                                                                                                                                                                                  | Part No.     | Description                      | Remarks |
|----------|--------------|----------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------|---------|
| 51       | 4-957-299-11 | TABLE (B), DISC            |         | 70                                                                                                                                                                                        | 3-703-571-11 | BUSHING (S) (FBS002), CORD(E)    |         |
| 52       | 4-957-304-21 | BELT(RM)                   |         | 70                                                                                                                                                                                        | 4-966-267-11 | BUSHING (FBS001), CORD(EXCEPT E) |         |
| 53       | X-4949-852-1 | GEAR(ROTARY A) ASSY        |         | * 71                                                                                                                                                                                      | 4-214-618-01 | PANEL, BACK(CE235:US)            |         |
| * 54     | 1-659-737-11 | SENSOR BOARD               |         | * 71                                                                                                                                                                                      | 4-214-618-11 | PANEL, BACK(CE235:CND)           |         |
| * 55     | 1-647-364-11 | TABLE MOTOR BOARD          |         | * 71                                                                                                                                                                                      | 4-214-618-22 | PANEL, BACK(CE235:AEP,AED)       |         |
| 56       | 3-325-697-01 | WASHER                     |         | * 71                                                                                                                                                                                      | 4-214-618-32 | PANEL, BACK(CE235:UK)            |         |
| 57       | 4-957-284-01 | GEAR(ROTARY B)             |         | * 71                                                                                                                                                                                      | 4-214-618-41 | PANEL, BACK(CE235:AUS)           |         |
| 58       | X-4943-477-1 | BRACKET (RM) ASSY          |         | * 71                                                                                                                                                                                      | 4-214-618-51 | PANEL, BACK(CE235:E,EA)          |         |
| △ 59     | 1-558-943-41 | CORD, POWER(E)             |         | * 71                                                                                                                                                                                      | 4-214-618-61 | PANEL, BACK(CE235:SP)            |         |
| △ 59     | 1-575-651-21 | CORD, POWER(AEP,AED,EA,SP) |         | * 71                                                                                                                                                                                      | 4-214-618-71 | PANEL, BACK(C591)                |         |
| △ 59     | 1-590-926-11 | CORD, POWER(CND)           |         | * 71                                                                                                                                                                                      | 4-214-619-01 | PANEL, BACK(CE335:US)            |         |
| △ 59     | 1-696-845-11 | CORD, POWER(AUS)           |         | * 71                                                                                                                                                                                      | 4-214-619-11 | PANEL, BACK(CE335:CND)           |         |
| △ 59     | 1-751-529-11 | CORD, POWER(UK)            |         | * 71                                                                                                                                                                                      | 4-214-619-22 | PANEL, BACK(CE335:AEP,AED)       |         |
| △ 59     | 1-783-531-41 | CORD, POWER(US)            |         | * 71                                                                                                                                                                                      | 4-214-619-32 | PANEL, BACK(CE335:UK)            |         |
| 60       | 4-957-293-01 | SPRING (RACK RELEASE)      |         | * 71                                                                                                                                                                                      | 4-214-619-41 | PANEL, BACK(CE335:AUS)           |         |
| 61       | 4-957-291-11 | LEVER (RACK RELEASE)       |         | * 71                                                                                                                                                                                      | 4-214-619-51 | PANEL, BACK(CE335:E,EA)          |         |
| 62       | 4-957-868-01 | SCREW (+PTPWH 2.6 × 20)    |         | * 71                                                                                                                                                                                      | 4-214-619-61 | PANEL, BACK(CE335:SP)            |         |
| 63       | 4-988-162-01 | ROLLER                     |         | 72                                                                                                                                                                                        | 1-782-816-11 | WIRE(FLAT TYPE) (6 CORE)         |         |
| 64       | 4-934-376-01 | SHAFT (ROLLER)             |         | 73                                                                                                                                                                                        | X-4943-480-1 | BRACKET (ROLLER D) ASSY          |         |
| 65       | 4-957-292-11 | SLIDER (RACK)              |         | 74                                                                                                                                                                                        | 1-500-386-11 | FILTER, CLAMP (FERRITE CORE)     |         |
| 66       | 4-957-294-01 | SPRING (D.T), TENSION      |         | 75                                                                                                                                                                                        | 4-957-295-11 | CUSHION (RM)                     |         |
| 67       | 4-957-298-01 | TABLE (A), DISC            |         | M801                                                                                                                                                                                      | A-4660-525-A | MOTOR ASSY, ROTARY               |         |
| △ 68     | 1-569-007-11 | ADAPTOR, CONVERSION 2P(E)  |         | <div>The components identified by mark △ or dotted line with mark △ are critical for safety.</div> <div>Les composants identifiés par une marque △ sont critiques pour la sécurité.</div> |              |                                  |         |
| △ 68     | 1-569-008-31 | ADAPTOR, CONVERSION(EA)    |         |                                                                                                                                                                                           |              |                                  |         |
| * 69     | 4-951-619-21 | CUSHION (A)                |         |                                                                                                                                                                                           |              |                                  |         |

### 6-3. CHASSIS SECTION

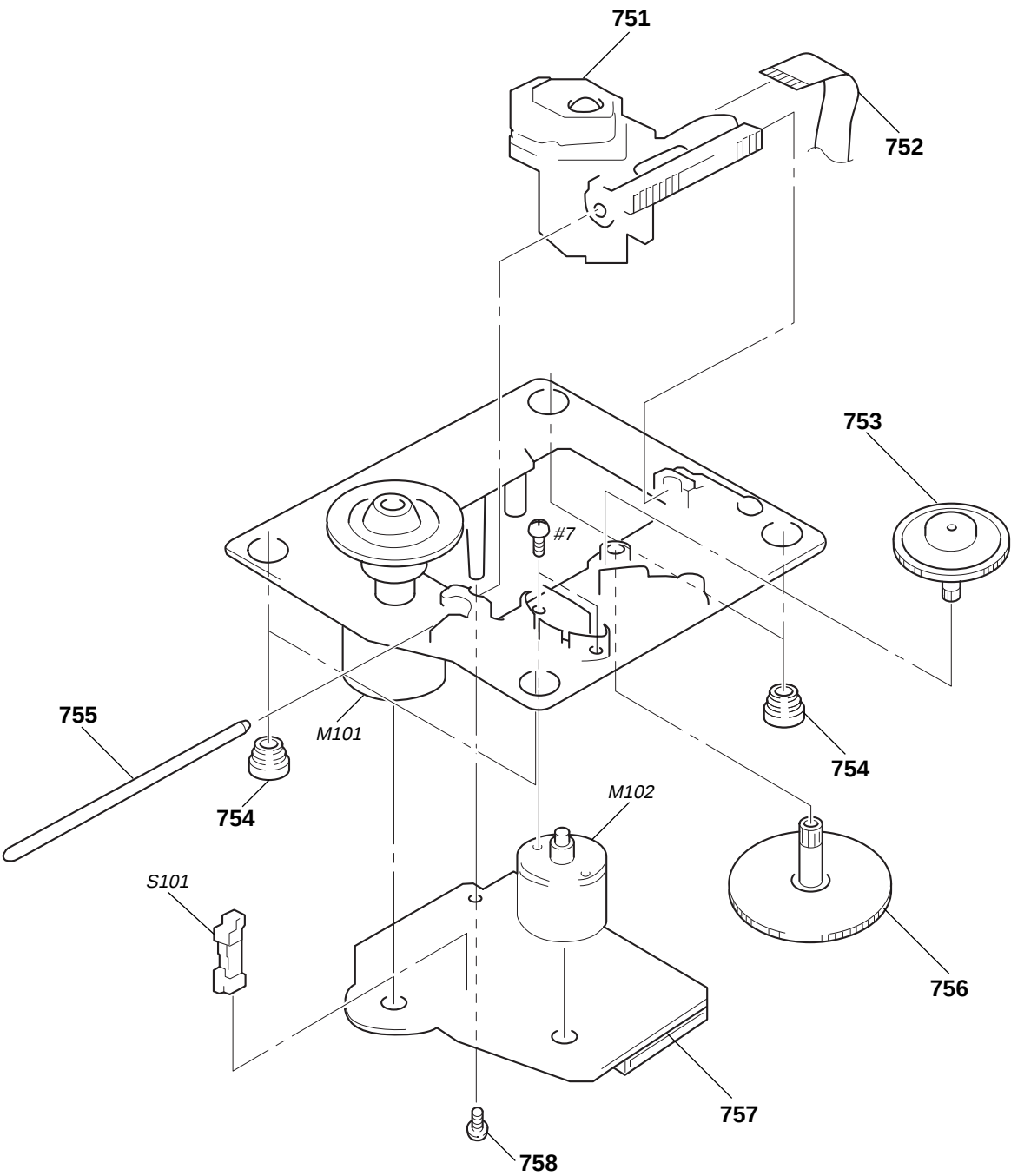


| Ref. No. | Part No.     | Description                 | Remarks | Ref. No. | Part No.     | Description                             | Remarks |
|----------|--------------|-----------------------------|---------|----------|--------------|-----------------------------------------|---------|
| 101      | 4-957-283-01 | WASHER (5), STOPPER         |         | * 118    | 1-659-738-11 | LOADING BOARD                           |         |
| 102      | 4-957-288-01 | GEAR (MAIN)                 |         | 119      | X-4949-851-1 | PULLEY ASSY                             |         |
| 103      | 4-957-287-21 | GEAR (REV)                  |         | 120      | 4-944-490-01 | BELT (TIMING)                           |         |
| 104      | 4-957-286-11 | GEAR (U/D)                  |         | * 121    | 4-957-555-01 | SHEET, INSULATING(EXCEPT US,CND)        |         |
| 105      | 1-466-996-11 | ENCODER, ROTARY             |         | * 122    | 4-957-556-01 | SHEET, INSULATING(EXCEPT US,CND)        |         |
| 106      | X-4946-195-1 | BRACKET (GEAR) ASSY         |         | 123      | 3-531-576-11 | RIVET(EXCEPT US,CND)                    |         |
| 107      | 4-933-134-01 | SCREW (+PTPWH M2.6 × 6)     |         | * 124    | A-4724-491-A | MAIN BOARD, COMPLETE(US,CND)            |         |
| 108      | 4-948-503-01 | SPRING (BU), COMPRESSION    |         | * 124    | A-4724-492-A | MAIN BOARD, COMPLETE(AEP,UK,AED,SP,AUS) |         |
| 109      | 1-790-490-11 | WIRE, (FLAT TYPE) (21 CORE) |         | * 124    | A-4724-493-A | MAIN BOARD, COMPLETE(E,EA)              |         |
| 110      | 4-957-289-22 | HOLDER (BU)                 |         | 125      | 1-452-925-21 | MAGNET ASSY                             |         |
| 111      | 4-957-300-03 | CHASSIS                     |         | 126      | 4-993-142-11 | PULLEY (L), PRESS                       |         |
| 112      | 4-957-281-01 | SPRING (LOCK LEVER)         |         | 127      | 4-981-731-21 | CUSHION (U/D)                           |         |
| 113      | 4-957-279-11 | LEVER, LOCK                 |         | 128      | 4-981-731-11 | CUSHION (U/D)                           |         |
| 114      | 4-957-303-01 | GEAR (LOADING C)            |         | M761     | A-4604-834-A | MOTOR ASSY, LOADING                     |         |
| 115      | 4-934-375-21 | GEAR (LOADING B)            |         | △ T601   | 1-429-956-11 | TRANSFORMER, POWER(US,CND)              |         |
| 116      | 4-957-285-01 | LEVER, SET                  |         | △ T601   | 1-431-076-11 | TRANSFORMER, POWER(AEP,UK,AED,SP,AUS)   |         |
| 117      | 4-962-087-01 | SPRING (S), TENSION         |         | △ T601   | 1-431-168-11 | TRANSFORMER, POWER(E,EA)                |         |

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

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

6-4. BASE UNIT SECTION (BU-5BD32A)



| Ref. No. | Part No.     | Description                    | Remarks | Ref. No. | Part No.     | Description            | Remarks |
|----------|--------------|--------------------------------|---------|----------|--------------|------------------------|---------|
| △ 751    | 8-848-379-31 | OPTICAL PICK-UP KSS-213BA/F-NP |         | 756      | 4-917-564-01 | GEAR (P), FLATNESS     |         |
| 752      | 1-769-069-11 | WIRE (FLAT TYPE) (16 CORE)     |         | * 757    | A-4724-494-A | BD BOARD, COMPLETE     |         |
| 753      | 4-917-567-21 | GEAR (M)                       |         | 758      | 4-951-620-01 | SCREW (2.6 × 8), +BVTP |         |
| 754      | 4-951-940-41 | INSULATOR (BU)                 |         | M101     | X-4917-523-3 | MOTOR ASSY(SPINDLE)    |         |
| 755      | 4-917-565-01 | SHAFT, SLED                    |         | M102     | X-4917-504-1 | MOTOR ASSY(SLED)       |         |
|          |              |                                |         | S101     | 1-572-085-11 | SWITCH, LEAF(LIMIT IN) |         |

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

# SECTION 7 ELECTRICAL PARTS LIST

BD

## 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, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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

- CAPACITORS:  
uF:  $\mu$ F
- RESISTORS  
All resistors are in ohms.  
METAL: metal-film resistor  
METAL OXIDE: Metal Oxide-film resistor  
F: nonflammable
- COILS  
uH:  $\mu$ H
- Abbreviation  
CND : Canadian  
AED : North European  
AUS : Austrarian  
EA : Saudi Arabia  
SP : Singapore

- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA...:  $\mu$ A..., uPA...,  $\mu$ PA...,  
uPB...,  $\mu$ PB..., uPC...,  $\mu$ PC...,  
uPD...,  $\mu$ PD...

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.

| Ref. No. | Part No.     | Description                 | Remarks | Ref. No. | Part No.     | Description                    | Remarks |
|----------|--------------|-----------------------------|---------|----------|--------------|--------------------------------|---------|
| *        | A-4724-494-A | BD BOARD, COMPLETE<br>***** |         | C181     | 1-163-009-11 | CERAMIC CHIP 0.001uF 10%       | 50V     |
|          |              |                             |         | C182     | 1-163-123-00 | CERAMIC CHIP 180PF 5%          | 50V     |
|          |              | < CAPACITOR >               |         |          |              | < CONNECTOR >                  |         |
| C101     | 1-163-005-11 | CERAMIC CHIP 470PF 10%      | 50V     | CN101    | 1-784-360-11 | CONNECTOR,FFC(LIF(NON-ZIF))21P |         |
| C102     | 1-164-004-11 | CERAMIC CHIP 0.1uF 10%      | 25V     | CN102    | 1-777-937-11 | CONNECTOR, FFC/FPC 16P         |         |
| C103     | 1-163-005-11 | CERAMIC CHIP 470PF 10%      | 50V     |          |              | < FERRITE BEAD >               |         |
| C104     | 1-163-009-11 | CERAMIC CHIP 0.001uF 10%    | 50V     | FB101    | 1-500-445-21 | FERRITE 0UH                    |         |
| C108     | 1-164-004-11 | CERAMIC CHIP 0.1uF 10%      | 25V     | FB103    | 1-500-445-21 | FERRITE 0UH                    |         |
| C109     | 1-163-011-11 | CERAMIC CHIP 0.0015uF 10%   | 50V     |          |              | < IC >                         |         |
| C110     | 1-164-182-11 | CERAMIC CHIP 0.0033uF 10%   | 50V     | IC101    | 8-752-386-85 | IC CXD2587Q                    |         |
| C111     | 1-163-251-11 | CERAMIC CHIP 100PF 5%       | 50V     | IC102    | 8-759-549-28 | IC BA5974FP-E2                 |         |
| C112     | 1-163-038-91 | CERAMIC CHIP 0.1uF 25V      |         | IC103    | 8-752-085-51 | IC CXA2568M-T6                 |         |
| C113     | 1-163-038-91 | CERAMIC CHIP 0.1uF 25V      |         |          |              | < TRANSISTOR >                 |         |
| C114     | 1-163-038-91 | CERAMIC CHIP 0.1uF 25V      |         | Q101     | 8-729-010-08 | TRANSISTOR MSB710-R            |         |
| C115     | 1-126-607-11 | ELECT CHIP 47uF 20%         | 4V      |          |              | < RESISTOR >                   |         |
| C116     | 1-126-607-11 | ELECT CHIP 47uF 20%         | 4V      | R101     | 1-216-077-00 | METAL CHIP 15K 5%              | 1/10W   |
| C117     | 1-126-209-11 | ELECT CHIP 100uF 20%        | 4V      | R102     | 1-216-097-91 | RES,CHIP 100K 5%               | 1/10W   |
| C118     | 1-163-009-11 | CERAMIC CHIP 0.001uF 10%    | 50V     | R103     | 1-216-077-00 | METAL CHIP 15K 5%              | 1/10W   |
| C119     | 1-163-235-11 | CERAMIC CHIP 22PF 5%        | 50V     | R104     | 1-216-085-00 | METAL CHIP 33K 5%              | 1/10W   |
| C121     | 1-163-038-91 | CERAMIC CHIP 0.1uF 25V      |         | R105     | 1-216-097-91 | RES,CHIP 100K 5%               | 1/10W   |
| C122     | 1-126-206-11 | ELECT CHIP 100uF 20%        | 6.3V    | R106     | 1-216-049-91 | RES,CHIP 1K 5%                 | 1/10W   |
| C123     | 1-163-021-91 | CERAMIC CHIP 0.01uF 10%     | 50V     | R107     | 1-216-073-00 | METAL CHIP 10K 5%              | 1/10W   |
| C124     | 1-107-823-11 | CERAMIC CHIP 0.47uF 10%     | 16V     | R108     | 1-216-061-00 | METAL CHIP 3.3K 5%             | 1/10W   |
| C125     | 1-163-038-91 | CERAMIC CHIP 0.1uF 25V      |         | R109     | 1-216-121-91 | RES,CHIP 1M 5%                 | 1/10W   |
| C126     | 1-163-038-91 | CERAMIC CHIP 0.1uF 25V      |         | R110     | 1-216-025-91 | RES,CHIP 100 5%                | 1/10W   |
| C127     | 1-117-681-11 | ELECT CHIP 100uF 20%        | 16V     | R111     | 1-216-121-91 | RES,CHIP 1M 5%                 | 1/10W   |
| C128     | 1-163-038-91 | CERAMIC CHIP 0.1uF 25V      |         | R113     | 1-216-121-91 | RES,CHIP 1M 5%                 | 1/10W   |
| C129     | 1-163-031-11 | CERAMIC CHIP 0.01uF 50V     |         | R114     | 1-216-073-00 | METAL CHIP 10K 5%              | 1/10W   |
| C130     | 1-164-346-11 | CERAMIC CHIP 1uF 16V        |         | R116     | 1-216-001-00 | METAL CHIP 10 5%               | 1/10W   |
| C131     | 1-124-779-00 | ELECT CHIP 10uF 20%         | 16V     | R117     | 1-216-049-91 | RES,CHIP 1K 5%                 | 1/10W   |
| C133     | 1-164-346-11 | CERAMIC CHIP 1uF 16V        |         | R119     | 1-216-041-00 | METAL CHIP 470 5%              | 1/10W   |
| C140     | 1-164-346-11 | CERAMIC CHIP 1uF 16V        |         | R123     | 1-216-073-00 | METAL CHIP 10K 5%              | 1/10W   |
| C141     | 1-164-346-11 | CERAMIC CHIP 1uF 16V        |         | R124     | 1-216-097-91 | RES,CHIP 100K 5%               | 1/10W   |
| C143     | 1-163-038-91 | CERAMIC CHIP 0.1uF 25V      |         | R131     | 1-216-037-00 | METAL CHIP 330 5%              | 1/10W   |
| C151     | 1-163-235-11 | CERAMIC CHIP 22PF 5%        | 50V     | R143     | 1-216-103-00 | METAL CHIP 180K 5%             | 1/10W   |
| C153     | 1-163-038-91 | CERAMIC CHIP 0.1uF 25V      |         | R144     | 1-216-103-00 | METAL CHIP 180K 5%             | 1/10W   |
| C154     | 1-110-501-11 | CERAMIC CHIP 0.33uF 10%     | 16V     | R147     | 1-216-069-00 | METAL CHIP 6.8K 5%             | 1/10W   |
| C156     | 1-163-235-11 | CERAMIC CHIP 22PF 5%        | 50V     | R148     | 1-216-001-00 | METAL CHIP 10 5%               | 1/10W   |
| C157     | 1-163-009-11 | CERAMIC CHIP 0.001uF 10%    | 50V     | R149     | 1-216-001-00 | METAL CHIP 10 5%               | 1/10W   |
| C159     | 1-163-019-00 | CERAMIC CHIP 0.0068uF 10%   | 50V     | R158     | 1-216-111-00 | METAL CHIP 390K 5%             | 1/10W   |
| C161     | 1-126-206-11 | ELECT CHIP 100uF 20%        | 6.3V    |          |              |                                |         |
| C162     | 1-126-205-11 | ELECT CHIP 47uF 20%         | 6.3V    |          |              |                                |         |
| C163     | 1-126-206-11 | ELECT CHIP 100uF 20%        | 6.3V    |          |              |                                |         |
| C165     | 1-163-038-91 | CERAMIC CHIP 0.1uF 25V      |         |          |              |                                |         |
| C167     | 1-163-235-11 | CERAMIC CHIP 22PF 5%        | 50V     |          |              |                                |         |
| C168     | 1-163-235-11 | CERAMIC CHIP 22PF 5%        | 50V     |          |              |                                |         |
| C171     | 1-163-009-11 | CERAMIC CHIP 0.001uF 10%    | 50V     |          |              |                                |         |
| C172     | 1-163-123-00 | CERAMIC CHIP 180PF 5%       | 50V     |          |              |                                |         |

|    |         |     |         |      |
|----|---------|-----|---------|------|
| BD | DISPLAY | KEY | LOADING | MAIN |
|----|---------|-----|---------|------|

| Ref. No. | Part No.     | Description                    |       |     |        | Remarks | Ref. No. | Part No.      | Description                             |         |     |        | Remarks |
|----------|--------------|--------------------------------|-------|-----|--------|---------|----------|---------------|-----------------------------------------|---------|-----|--------|---------|
| R159     | 1-216-101-00 | METAL CHIP                     | 150K  | 5%  | 1/10W  |         |          | < SWITCH >    |                                         |         |     |        |         |
| R161     | 1-216-308-00 | METAL CHIP                     | 4.7   | 5%  | 1/10W  |         |          |               |                                         |         |     |        |         |
| R162     | 1-216-101-00 | METAL CHIP                     | 150K  | 5%  | 1/10W  |         | S801     | 1-554-303-21  | SWITCH, TACTILE(FADER)                  |         |     |        |         |
| R171     | 1-216-078-00 | RES,CHIP                       | 16K   | 5%  | 1/10W  |         | S802     | 1-554-303-21  | SWITCH, TACTILE(MUSIC SCAN)             |         |     |        |         |
| R172     | 1-216-073-00 | METAL CHIP                     | 10K   | 5%  | 1/10W  |         | S803     | 1-554-303-21  | SWITCH, TACTILE(CLEAR)                  |         |     |        |         |
|          |              |                                |       |     |        |         | S804     | 1-554-303-21  | SWITCH, TACTILE(CHECK)                  |         |     |        |         |
|          |              |                                |       |     |        |         | S805     | 1-554-303-21  | SWITCH, TACTILE(▶▶)                     |         |     |        |         |
| R173     | 1-216-077-00 | METAL CHIP                     | 15K   | 5%  | 1/10W  |         |          |               |                                         |         |     |        |         |
| R181     | 1-216-078-00 | RES,CHIP                       | 16K   | 5%  | 1/10W  |         |          |               |                                         |         |     |        |         |
| R182     | 1-216-073-00 | METAL CHIP                     | 10K   | 5%  | 1/10W  |         | S806     | 1-554-303-21  | SWITCH, TACTILE(◀◀)                     |         |     |        |         |
| R183     | 1-216-077-00 | METAL CHIP                     | 15K   | 5%  | 1/10W  |         | S808     | 1-554-303-21  | SWITCH, TACTILE(△OPEN/CLOSE)            |         |     |        |         |
| R184     | 1-216-025-91 | RES,CHIP                       | 100   | 5%  | 1/10W  |         | S809     | 1-554-303-21  | SWITCH, TACTILE(DISC SKIP)              |         |     |        |         |
|          |              |                                |       |     |        |         | S810     | 1-554-303-21  | SWITCH, TACTILE(EX-CHANGE)              |         |     |        |         |
| R185     | 1-216-025-91 | RES,CHIP                       | 100   | 5%  | 1/10W  |         | S811     | 1-554-303-21  | SWITCH, TACTILE(■)                      |         |     |        |         |
|          |              | < RESISTOR ARRAY >             |       |     |        |         |          |               |                                         |         |     |        |         |
| RN101    | 1-233-412-11 | RES, CHIP NETWORK 1.0K (3216)  |       |     |        |         | S812     | 1-554-303-21  | SWITCH, TACTILE(▬▬)                     |         |     |        |         |
| RN102    | 1-233-576-11 | RES, CHIP NETWORK 100          |       |     |        |         | S813     | 1-554-303-21  | SWITCH, TACTILE(▷)                      |         |     |        |         |
|          |              |                                |       |     |        |         | S814     | 1-475-543-11  | ENCODER, ROTARY(AMS)                    |         |     |        |         |
|          |              | < SWITCH >                     |       |     |        |         | *****    |               |                                         |         |     |        |         |
| S101     | 1-572-085-11 | SWITCH, LEAF(LIMIT IN)         |       |     |        |         | *        | 1-664-524-11  | KEY BOARD                               |         |     |        |         |
|          |              |                                |       |     |        |         |          |               |                                         |         |     |        |         |
|          |              | < VIBRATOR >                   |       |     |        |         |          |               |                                         |         |     |        |         |
| X101     | 1-767-408-21 | VIBRATOR, CRYSTAL 16.9344MHz   |       |     |        |         | CN701    | 1-770-540-31  | SOCKET, CONNECTOR 6P                    |         |     |        |         |
| *****    |              |                                |       |     |        |         | CN702    | 1-750-195-11  | CONNECTOR, BOARD TO BOARD 6P            |         |     |        |         |
|          |              |                                |       |     |        |         |          |               |                                         |         |     |        |         |
|          |              | < RESISTOR >                   |       |     |        |         |          |               |                                         |         |     |        |         |
| *        | 1-664-522-11 | DISPLAY BOARD                  |       |     |        |         | R713     | 1-249-415-11  | CARBON                                  | 680     | 5%  | 1/4W F |         |
|          |              | *****                          |       |     |        |         | R714     | 1-249-417-11  | CARBON                                  | 1K      | 5%  | 1/4W F |         |
|          |              | < CAPACITOR >                  |       |     |        |         |          |               |                                         |         |     |        |         |
| C801     | 1-126-968-11 | ELECT                          | 100uF | 20% | 6.3V   |         |          | < SWITCH >    |                                         |         |     |        |         |
|          |              | < CONNECTOR >                  |       |     |        |         | S713     | 1-554-303-21  | SWITCH, TACTILE(PEAK SEARCH)            |         |     |        |         |
|          |              |                                |       |     |        |         | S714     | 1-554-303-21  | SWITCH, TACTILE(EDIT/TIME FADE)         |         |     |        |         |
| * CN810  | 1-691-958-11 | SOCKET, CONNECTOR 35P          |       |     |        |         | S715     | 1-554-303-21  | SWITCH, TACTILE(TIME)                   |         |     |        |         |
|          |              |                                |       |     |        |         | *****    |               |                                         |         |     |        |         |
|          |              | < FLUORESCENT INDICATOR TUBE > |       |     |        |         | *        | 1-659-738-11  | LOADING BOARD                           |         |     |        |         |
| FL810    | 1-517-616-11 | TUBE, FLUORESCENT INDICATOR    |       |     |        |         |          |               |                                         |         |     |        |         |
|          |              | < IC >                         |       |     |        |         | M761     | A-4604-834-A  | MOTOR ASSY, LOADING                     |         |     |        |         |
| IC810    | 8-749-014-66 | IC NJL56H400A                  |       |     |        |         | *****    |               |                                         |         |     |        |         |
|          |              | < RESISTOR >                   |       |     |        |         | *        | A-4724-492-A  | MAIN BOARD, COMPLETE(AEP,UK,AED,SP,AUS) |         |     |        |         |
|          |              |                                |       |     |        |         |          |               |                                         |         |     |        |         |
| R801     | 1-247-807-31 | CARBON                         | 100   | 5%  | 1/4W   |         | *        | A-4724-493-A  | MAIN BOARD, COMPLETE(E,EA)              |         |     |        |         |
| R802     | 1-247-807-31 | CARBON                         | 100   | 5%  | 1/4W   |         |          |               |                                         |         |     |        |         |
| R811     | 1-249-415-11 | CARBON                         | 680   | 5%  | 1/4W F |         |          |               |                                         |         |     |        |         |
| R812     | 1-249-417-11 | CARBON                         | 1K    | 5%  | 1/4W F |         | *        | A-4724-491-A  | MAIN BOARD, COMPLETE(US,CND)            |         |     |        |         |
| R813     | 1-249-419-11 | CARBON                         | 1.5K  | 5%  | 1/4W F |         |          |               |                                         |         |     |        |         |
|          |              |                                |       |     |        |         |          |               |                                         |         |     |        |         |
| R814     | 1-249-421-11 | CARBON                         | 2.2K  | 5%  | 1/4W F |         |          | 7-685-871-01  | SCREW +BVTT 3 × 6 (S)                   |         |     |        |         |
| R815     | 1-247-843-11 | CARBON                         | 3.3K  | 5%  | 1/4W   |         |          |               |                                         |         |     |        |         |
| R816     | 1-249-427-11 | CARBON                         | 6.8K  | 5%  | 1/4W F |         |          | < CAPACITOR > |                                         |         |     |        |         |
| R817     | 1-249-415-11 | CARBON                         | 680   | 5%  | 1/4W F |         | C316     | 1-164-159-11  | CERAMIC                                 | 0.1uF   | 50V |        |         |
| R818     | 1-249-417-11 | CARBON                         | 1K    | 5%  | 1/4W F |         | C317     | 1-161-494-00  | CERAMIC                                 | 0.022uF | 25V |        |         |
|          |              |                                |       |     |        |         | C373     | 1-161-494-00  | CERAMIC                                 | 0.022uF | 25V |        |         |
| R819     | 1-249-419-11 | CARBON                         | 1.5K  | 5%  | 1/4W F |         | C374     | 1-104-664-11  | ELECT                                   | 47uF    | 20% | 16V    |         |
| R820     | 1-249-421-11 | CARBON                         | 2.2K  | 5%  | 1/4W F |         | C401     | 1-126-965-11  | ELECT                                   | 22uF    | 20% | 50V    |         |
| R821     | 1-247-843-11 | CARBON                         | 3.3K  | 5%  | 1/4W   |         |          |               |                                         |         |     |        |         |
| R822     | 1-249-427-11 | CARBON                         | 6.8K  | 5%  | 1/4W F |         | C404     | 1-104-665-11  | ELECT                                   | 100uF   | 20% | 10V    |         |
| R823     | 1-249-431-11 | CARBON                         | 15K   | 5%  | 1/4W   |         | C410     | 1-162-290-31  | CERAMIC                                 | 470PF   | 10% | 50V    |         |
|          |              |                                |       |     |        |         | C501     | 1-126-965-11  | ELECT                                   | 22uF    | 20% | 50V    |         |
| R824     | 1-249-431-11 | CARBON                         | 15K   | 5%  | 1/4W   |         | C504     | 1-124-443-00  | ELECT                                   | 100uF   | 20% | 10V    |         |
| R840     | 1-247-807-31 | CARBON                         | 100   | 5%  | 1/4W   |         | C509     | 1-126-963-11  | ELECT                                   | 4.7uF   | 20% | 50V    |         |
|          |              |                                |       |     |        |         |          |               |                                         |         |     |        |         |

| Ref. No.      | Part No.     | Description                   | Remarks        | Ref. No.       | Part No.     | Description | Remarks        |
|---------------|--------------|-------------------------------|----------------|----------------|--------------|-------------|----------------|
| C509          | 1-126-163-11 | ELECT                         | 4.7uF 20% 50V  | < COIL >       |              |             |                |
| C509          | 1-126-963-11 | ELECT                         | 4.7uF 20% 50V  | L601           | 1-412-473-21 | INDUCTOR    | 0uH            |
| C510          | 1-162-290-31 | CERAMIC                       | 470PF 10% 50V  | L602           | 1-414-151-21 | INDUCTOR    | 470uH          |
| C601          | 1-119-941-91 | ELECT                         | 470uF 20% 6.3V | L603           | 1-412-473-21 | INDUCTOR    | 0uH            |
| C602          | 1-126-944-11 | ELECT                         | 3300uF 20% 16V | < TRANSISTOR > |              |             |                |
| C603          | 1-126-942-61 | ELECT                         | 1000uF 20% 16V | Q201           | 8-729-119-78 | TRANSISTOR  | 2SC403SP-51    |
| C604          | 1-126-963-11 | ELECT                         | 4.7uF 20% 50V  | Q402           | 8-729-141-26 | TRANSISTOR  | 2SC3622A-LK    |
| C605          | 1-126-963-11 | ELECT                         | 4.7uF 20% 50V  | Q404           | 8-729-119-78 | TRANSISTOR  | 2SC403SP-51    |
| C606          | 1-126-963-11 | ELECT                         | 4.7uF 20% 50V  | Q405           | 8-729-029-56 | TRANSISTOR  | DTA144ESA      |
| C607          | 1-126-941-11 | ELECT                         | 470uF 20% 6.3V | Q406           | 8-729-141-26 | TRANSISTOR  | 2SC3622A-LK    |
| C608          | 1-104-666-11 | ELECT                         | 220uF 20% 10V  | Q502           | 8-729-141-26 | TRANSISTOR  | 2SC3622A-LK    |
| C609          | 1-128-552-11 | ELECT                         | 47uF 20% 63V   | Q503           | 8-729-029-56 | TRANSISTOR  | DTA144ESA      |
| C610          | 1-124-907-11 | ELECT                         | 10uF 20% 50V   | Q505           | 8-729-029-56 | TRANSISTOR  | DTA144ESA      |
| C614          | 1-104-665-11 | ELECT                         | 100uF 20% 16V  | Q506           | 8-729-141-26 | TRANSISTOR  | 2SC3622A-LK    |
| C616          | 1-161-494-00 | CERAMIC                       | 0.022uF 25V    | Q601           | 8-729-119-76 | TRANSISTOR  | 2SA1175-HFE    |
| C619          | 1-104-664-11 | ELECT                         | 47uF 20% 16V   | < RESISTOR >   |              |             |                |
| C622          | 1-161-494-00 | CERAMIC                       | 0.022uF 25V    | R205           | 1-249-430-11 | CARBON      | 12K 5% 1/4W    |
| C625          | 1-161-494-00 | CERAMIC                       | 0.022uF 25V    | R206           | 1-249-429-11 | CARBON      | 10K 5% 1/4W    |
| C626          | 1-161-494-00 | CERAMIC                       | 0.022uF 25V    | R251           | 1-249-429-11 | CARBON      | 10K 5% 1/4W    |
| C628          | 1-104-664-11 | ELECT                         | 47uF 20% 16V   | R252           | 1-249-426-11 | CARBON      | 5.6K 5% 1/4W   |
| C651          | 1-104-664-11 | ELECT                         | 47uF 20% 16V   | R253           | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W F |
| < CONNECTOR > |              |                               |                | R254           | 1-249-430-11 | CARBON      | 12K 5% 1/4W    |
| CN401         | 1-785-841-11 | CONNECTOR, FFC/FPC 21P        |                | R262           | 1-249-382-11 | CARBON      | 1.2 5% 1/6W F  |
| CN402         | 1-764-411-11 | PIN, CONNECTOR (PC BOARD) 35P |                | R263           | 1-249-382-11 | CARBON      | 1.2 5% 1/6W F  |
| CN403         | 1-770-540-31 | SOCKET, CONNECTOR 6P          |                | R312           | 1-249-437-11 | CARBON      | 47K 5% 1/4W    |
| * CN404       | 1-568-825-11 | SOCKET, CONNECTOR 6P          |                | R313           | 1-249-429-11 | CARBON      | 10K 5% 1/4W    |
| * CN601       | 1-573-047-11 | PIN, CONNECTOR (PC BOARD) 2P  |                | R314           | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W F |
| < DIODE >     |              |                               |                | R315           | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W F |
| D302          | 8-719-991-33 | DIODE 1SS133T-77              |                | R316           | 1-249-425-11 | CARBON      | 4.7K 5% 1/4W F |
| D401          | 8-719-991-33 | DIODE 1SS133T-77              |                | R317           | 1-249-427-11 | CARBON      | 6.8K 5% 1/4W F |
| D501          | 8-719-991-33 | DIODE 1SS133T-77              |                | R318           | 1-249-427-11 | CARBON      | 6.8K 5% 1/4W F |
| D601          | 8-719-200-82 | DIODE 11ES2                   |                | R319           | 1-249-427-11 | CARBON      | 6.8K 5% 1/4W F |
| D602          | 8-719-200-82 | DIODE 11ES2                   |                | R321           | 1-249-429-11 | CARBON      | 10K 5% 1/4W    |
| D603          | 8-719-200-82 | DIODE 11ES2                   |                | R322           | 1-249-429-11 | CARBON      | 10K 5% 1/4W    |
| D604          | 8-719-200-82 | DIODE 11ES2                   |                | R323           | 1-249-441-11 | CARBON      | 100K 5% 1/4W   |
| D605          | 8-719-200-82 | DIODE 11ES2                   |                | R331           | 1-249-427-11 | CARBON      | 6.8K 5% 1/4W F |
| D606          | 8-719-923-60 | DIODE MTZJ-T-77-9.1A          |                | R333           | 1-249-429-11 | CARBON      | 10K 5% 1/4W    |
| D608          | 8-719-991-33 | DIODE 1SS133T-77              |                | R401           | 1-215-425-00 | METAL       | 1.5K 1% 1/4W   |
| D609          | 8-719-921-40 | DIODE MTZJ-4.7C               |                | R402           | 1-215-425-00 | METAL       | 1.5K 1% 1/4W   |
| < TERMINAL >  |              |                               |                | R403           | 1-215-445-00 | METAL       | 10K 1% 1/4W    |
| EB101         | 1-537-770-21 | TERMINAL BOARD, GROUND        |                | R404           | 1-215-443-00 | METAL       | 8.2K 1% 1/4W   |
| < IC >        |              |                               |                | R405           | 1-215-469-00 | METAL       | 100K 1% 1/4W   |
| IC302         | 8-752-902-15 | IC CXP82324-090Q              |                | R406           | 1-215-405-00 | METAL       | 220 1% 1/4W    |
| IC304         | 8-759-356-03 | IC BA6780                     |                | R407           | 1-215-453-00 | METAL       | 22K 1% 1/4W    |
| IC371         | 8-749-921-12 | IC GP1F32T(DIGITAL OUT)       |                | R408           | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W F |
| IC401         | 8-759-145-58 | IC UPC4558C                   |                | R409           | 1-215-405-00 | METAL       | 220 1% 1/4W    |
| IC601         | 8-759-061-65 | IC LA5602                     |                | R410           | 1-249-441-11 | CARBON      | 100K 5% 1/4W   |
| IC602         | 8-749-011-78 | IC BA17807T                   |                | R412           | 1-215-405-00 | METAL       | 220 1% 1/4W    |
| IC603         | 8-759-633-42 | IC M5293L                     |                | R416           | 1-249-421-11 | CARBON      | 2.2K 5% 1/4W F |
| < JACK >      |              |                               |                | R501           | 1-215-425-00 | METAL       | 1.5K 1% 1/4W   |
| J301          | 1-785-868-11 | JACK, PIN 2P(LINE OUT)        |                | R502           | 1-215-425-00 | METAL       | 1.5K 1% 1/4W   |
|               |              |                               |                | R503           | 1-215-445-00 | METAL       | 10K 1% 1/4W    |
|               |              |                               |                | R504           | 1-215-443-00 | METAL       | 8.2K 1% 1/4W   |
|               |              |                               |                | R505           | 1-215-469-00 | METAL       | 100K 1% 1/4W   |
|               |              |                               |                | R506           | 1-215-405-00 | METAL       | 220 1% 1/4W    |
|               |              |                               |                | R507           | 1-215-453-00 | METAL       | 22K 1% 1/4W    |

|             |             |               |                    |
|-------------|-------------|---------------|--------------------|
| <b>MAIN</b> | <b>P.SW</b> | <b>SENSOR</b> | <b>TABLE MOTOR</b> |
|-------------|-------------|---------------|--------------------|

| Ref. No.        | Part No.     | Description                                     | Remarks |
|-----------------|--------------|-------------------------------------------------|---------|
| R508            | 1-249-421-11 | CARBON 2.2K 5%                                  | 1/4W F  |
| R509            | 1-215-405-00 | METAL 220 1%                                    | 1/4W    |
| R510            | 1-249-441-11 | CARBON 100K 5%                                  | 1/4W    |
| R512            | 1-215-405-00 | METAL 220 1%                                    | 1/4W    |
| R516            | 1-249-421-11 | CARBON 2.2K 5%                                  | 1/4W F  |
| R517            | 1-249-441-11 | CARBON 100K 5%                                  | 1/4W    |
| R601            | 1-249-435-11 | CARBON 33K 5%                                   | 1/4W    |
| R602            | 1-249-429-11 | CARBON 10K 5%                                   | 1/4W    |
| R603            | 1-249-438-11 | CARBON 56K 5%                                   | 1/4W    |
| R604            | 1-249-429-11 | CARBON 10K 5%                                   | 1/4W    |
| R607            | 1-249-411-11 | CARBON 330 5%                                   | 1/4W    |
| < SWITCH >      |              |                                                 |         |
| △ S601          | 1-572-675-11 | SWITCH, POWER VOLTAGE CHANGE (AC VOLTAGE)(E,EA) |         |
| < TRANSFORMER > |              |                                                 |         |
| △ T601          | 1-429-956-11 | TRANSFORMER, POWER(US,CND)                      |         |
| △ T601          | 1-431-076-11 | TRANSFORMER, POWER(AEP,UK,AED,SP,AUS)           |         |
| △ T601          | 1-431-168-11 | TRANSFORMER, POWER(E,EA)                        |         |
| < VIBRATOR >    |              |                                                 |         |
| X401            | 1-579-175-11 | VIBRATOR, CERAMIC 10.0MHZ                       |         |
| *****           |              |                                                 |         |
| *               | 1-664-523-11 | P.SW BOARD                                      | *****   |
| < CONNECTOR >   |              |                                                 |         |
| CN703           | 1-750-186-11 | CONNECTOR, BOARD TO BOARD 6P                    |         |
| < RESISTOR >    |              |                                                 |         |
| R701            | 1-249-415-11 | CARBON 680 5%                                   | 1/4W F  |
| R702            | 1-249-417-11 | CARBON 1K 5%                                    | 1/4W F  |
| R703            | 1-249-419-11 | CARBON 1.5K 5%                                  | 1/4W F  |
| R704            | 1-249-421-11 | CARBON 2.2K 5%                                  | 1/4W F  |
| R705            | 1-247-843-11 | CARBON 3.3K 5%                                  | 1/4W    |
| R706            | 1-249-427-11 | CARBON 6.8K 5%                                  | 1/4W F  |
| R707            | 1-249-431-11 | CARBON 15K 5%                                   | 1/4W    |
| R708            | 1-249-419-11 | CARBON 1.5K 5%                                  | 1/4W F  |
| R709            | 1-249-421-11 | CARBON 2.2K 5%                                  | 1/4W F  |
| < SWITCH >      |              |                                                 |         |
| S701            | 1-554-303-21 | SWITCH, TACTILE(DISC 1)                         |         |
| S702            | 1-554-303-21 | SWITCH, TACTILE(DISC 2)                         |         |
| S703            | 1-554-303-21 | SWITCH, TACTILE(DISC 3)                         |         |
| S704            | 1-554-303-21 | SWITCH, TACTILE(DISC 4)                         |         |
| S705            | 1-554-303-21 | SWITCH, TACTILE(DISC 5)                         |         |
| S706            | 1-554-303-21 | SWITCH, TACTILE(CONTINUE)                       |         |
| S707            | 1-554-303-21 | SWITCH, TACTILE(SHUFFLE)                        |         |
| S708            | 1-554-303-21 | SWITCH, TACTILE(PROGRAM)                        |         |
| S709            | 1-554-303-21 | SWITCH, TACTILE(REPEAT)                         |         |
| S710            | 1-554-303-21 | SWITCH, TACTILE(DISC CHECK)                     |         |
| S751            | 1-554-118-00 | SWITCH, PUSH (1 KEY)(POWER)                     |         |
| *****           |              |                                                 |         |

| Ref. No.      | Part No.     | Description                      | Remarks |
|---------------|--------------|----------------------------------|---------|
| *             | 1-659-737-11 | SENSOR BOARD                     | *****   |
| < CONNECTOR > |              |                                  |         |
| CN851         | 1-573-383-11 | PIN, CONNECTOR (PC BOARD) 2P     |         |
| CN852         | 1-750-243-11 | SOCKET, CONNECTOR 6P             |         |
| < DIODE >     |              |                                  |         |
| D851          | 8-749-924-18 | DIODE PHOTO INTERRUPTER RPI-1391 |         |
| D852          | 8-749-924-30 | DIODE PHOTO REFLECTOR GP2S28     |         |
| < RESISTOR >  |              |                                  |         |
| R851          | 1-249-416-11 | CARBON 820 5%                    | 1/4W F  |
| R852          | 1-249-406-11 | CARBON 120 5%                    | 1/4W F  |
| *****         |              |                                  |         |
| *             | 1-647-364-11 | TABLE MOTOR BOARD                | *****   |
| M801          | A-4660-525-A | MOTOR ASSY, ROTARY               |         |
| *****         |              |                                  |         |
| MISCELLANEOUS |              |                                  |         |
| *****         |              |                                  |         |
| 9             | 1-777-837-11 | WIRE(FLAT TYPE) (35 CORE)        |         |
| 18            | 1-777-838-11 | WIRE(FLAT TYPE) (6 CORE)         |         |
| △ 59          | 1-558-943-41 | CORD, POWER(E)                   |         |
| △ 59          | 1-575-651-21 | CORD, POWER(AEP,AED,EA,SP)       |         |
| △ 59          | 1-590-926-11 | CORD, POWER(CND)                 |         |
| △ 59          | 1-696-845-11 | CORD, POWER(AUS)                 |         |
| △ 59          | 1-751-529-11 | CORD, POWER(UK)                  |         |
| △ 59          | 1-783-531-41 | CORD, POWER(US)                  |         |
| △ 68          | 1-569-007-11 | ADAPTOR, CONVERSION 2P(E)        |         |
| △ 68          | 1-569-008-31 | ADAPTOR, CONVERSION(EA)          |         |
| 72            | 1-782-816-11 | WIRE(FLAT TYPE) (6 CORE)         |         |
| 74            | 1-500-386-11 | FILTER, CLAMP (FERRITE CORE)     |         |
| 105           | 1-466-996-11 | ENCODER, ROTARY                  |         |
| 109           | 1-790-490-11 | WIRE, (FLAT TYPE) (21 CORE)      |         |
| 125           | 1-452-925-21 | MAGNET ASSY                      |         |
| △ 751         | 8-848-379-31 | OPTICAL PICK-UP KSS-213BA/F-NP   |         |
| 752           | 1-769-069-11 | WIRE (FLAT TYPE) (16 CORE)       |         |
| M101          | X-4917-523-3 | MOTOR ASSY(SPINDLE)              |         |
| M102          | X-4917-504-1 | MOTOR ASSY(SLED)                 |         |
| M761          | A-4604-834-A | MOTOR ASSY, LOADING              |         |
| M801          | A-4660-525-A | MOTOR ASSY, ROTARY               |         |
| *****         |              |                                  |         |

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

| Ref. No.                        | Part No.     | Description                                                         | Remarks |
|---------------------------------|--------------|---------------------------------------------------------------------|---------|
| ACCESSORIES & PACKING MATERIALS |              |                                                                     |         |
| *****                           |              |                                                                     |         |
|                                 | 1-418-204-11 | REMOTE COMMANDER(RM-DC335)(CE335)                                   |         |
|                                 | 1-558-271-11 | CORD,CONNECTION(AUDIO)                                              |         |
|                                 | 3-865-901-11 | MANUAL, INSTRUCTION(ENGLISH)(US/AUS)                                |         |
|                                 | 3-865-901-21 | MANUAL, INSTRUCTION<br>(ENGLISH/FRENCH/SPANISH)(CND/AEP/E/EA/SP/UK) |         |
|                                 | 3-865-901-31 | MANUAL, INSTRUCTION<br>(GERMAN/DUTCH/ITALIAN/PORTUGUESE)(AEP)       |         |
|                                 | 3-865-901-41 | MANUAL, INSTRUCTION(CHINESE)(E/SP)                                  |         |
|                                 | 3-865-901-51 | MANUAL, INSTRUCTION(ARABIC)(EA)                                     |         |
|                                 | 3-865-901-61 | MANUAL, INSTRUCTION<br>(SWEDISH/DANISH/FINNISH)(AED)                |         |
|                                 | 4-981-643-01 | COVER BATTERY (For RM-DC335)(CE335)                                 |         |

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HARDWARE LIST  
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|    |              |                          |                  |
|----|--------------|--------------------------|------------------|
| #1 | 7-685-647-79 | SCREW +BVTP              | 3 × 10 TYPE2 N-S |
| #2 | 7-685-872-09 | SCREW +BVTT              | 3 × 8 (S)        |
| #3 | 7-685-648-79 | SCREW (M3 × 12), TAPPING |                  |
| #4 | 7-685-646-79 | SCREW +BVTP              | 3 × 8 TYPE2 N-S  |
| #5 | 7-621-772-00 | SCREW +B                 | 2 × 3            |
| #6 | 7-685-134-19 | SCREW (+ PTPWH)          | (2.6 × 8)        |
| #7 | 3-713-786-51 | SCREW +P                 | 2 × 3            |
| #8 | 7-685-871-01 | SCREW +BVTT              | 3 × 6 (S)        |

