

CDP-C265 / C365

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
Australian Model
CDP-C265/C365
E Model
CDP-C365



Photo : CDP-C265

| | |
|------------------------------------|---------------|
| Model Name Using Similer Mechanism | CDP-C235/C335 |
| CD Mechanism Type | CDM27A1-5BD13 |
| Base Unit Type | BU-5BD13 |
| Optical Pick-up Type | KSS-240A |

SPECIFICATIONS

Compact Disc Player

| | |
|-----------------------|-----------------------------------|
| System | Compact disc digital audio system |
| Laser | Semiconductor laser |
| Wavelength | 780-790 nm |
| Frequency response | 2 Hz-20 kHz (± 0.5 dB) |
| Signal to noise ratio | More than 102 dB |
| Dynamic range | More than 98 dB |
| Harmonic distortion | Less than 0.0045% |
| Channel separation | More than 100 dB |

Output

| | |
|---------------------------|--|
| LINE OUT (phono jacks) | Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms |
|---------------------------|--|

General

| | |
|--------------------|--|
| Power requirements | Model for US and Canadian 120V AC, 60Hz Model for AEP, German, UK, Singapore, Malaysia 220 — 230V AC, 50/60Hz Model for Australian 240V AC, 50/60Hz Model for E 110—120V, 220—240V AC, 50/60Hz |
| Power consumption | 14W |
| Dimensions (w/h/d) | Approx. 430 x 125 x 385 mm (17 x 5 x 15 ¹ / ₄ inches) Including projecting parts and controls |

| | |
|-------------------------|--|
| Mass | Approx. 5.6 kg, net (12 lbs 6oz) |
| Remote Commander | RM-D335 (CDP-C365 only) |
| Remote control system | Infrared control |
| Power requirements | 3 V DC with two size AA batteries (IEC designation R6) |
| Dimensions | 45 x 185 x 20 mm (w/h/d) (1 13/16 x 7 3/8 x 13/16 inches) |
| Mass | 100 g (3.5 oz) including batteries |

Supplied accessories

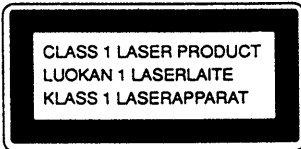
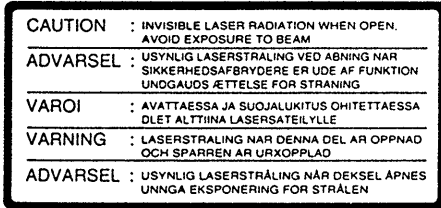
Audio signal connecting cord
(phono plug x 2 — phono plug x 2) (1)
Remote commander (1) (CDP-C365 only)
Sony SUM-3 (NS) batteries (2) (CDP-C365 only)
AC plug adaptor (1) (CDP-C365 E model only)

Design and specifications are subject to change without notice.

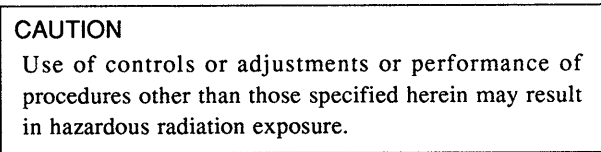


COMPACT DISC PLAYER
SONY[®]

The following caution label is located inside of the unit.



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



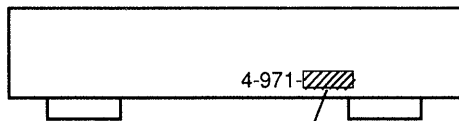
SAFETY-RELATED COMPONENT WARNING !!
COMPONENTS IDENTIFIED BY MARK Δ OR DOTTED LINE WITH MARK Δ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE Δ 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-C265 | |
| US Model | : 080-5□ (U) |
| (made in malaysia) | |
| US Model | : 532-4□ (U) |
| (made in china) | |
| Canadian Model | : 532-1□ (CA) |
| AEP Model | : 080-6□ (CED) |
| UK Model | : 080-7□ (CEK) |
| German Model | : 532-3□ (CEE) |
| Australian Model | : 080-8□ (AU) |
| CDP-C365 | |
| US Model | : 080-0□ (U) |
| Canadian Model | : 532-0□ (CA) |
| AEP, Singapore, | |
| Malaysia Model | : 080-1□ (CED) |
| UK Model | : 080-2□ (CEK) |
| German Model | : 532-2□ (CEE) |
| E Model | : 080-4□ (E2/E3) |
| Australian Model | : 080-3□ (AU) |

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)

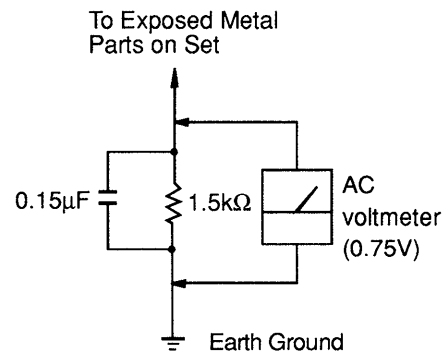
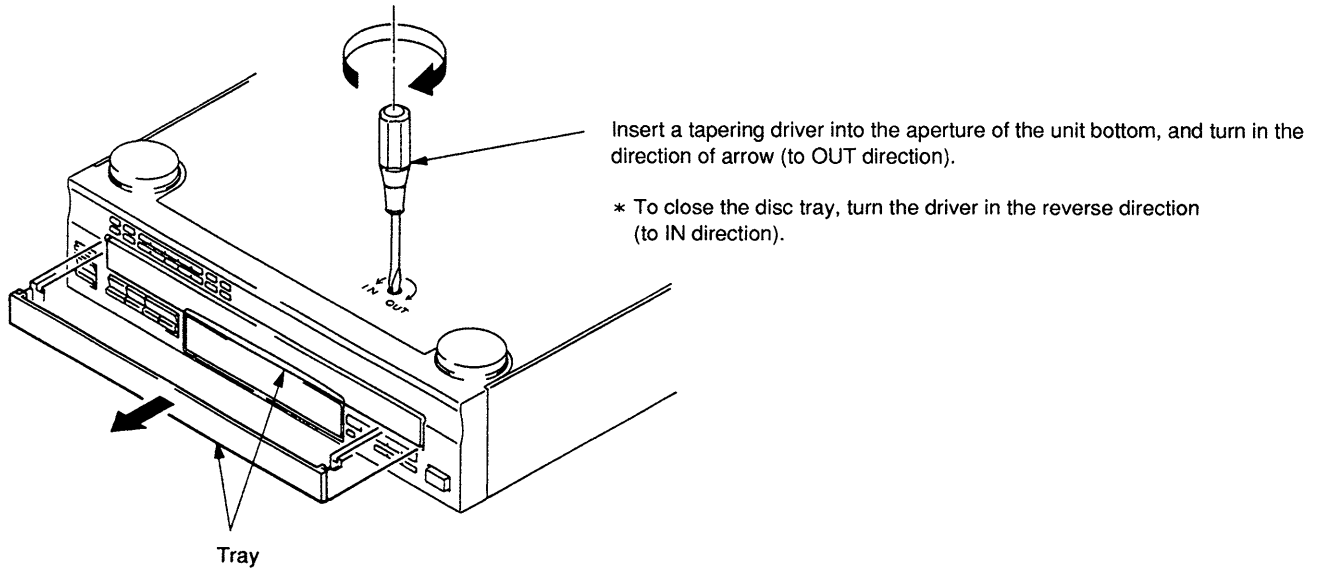
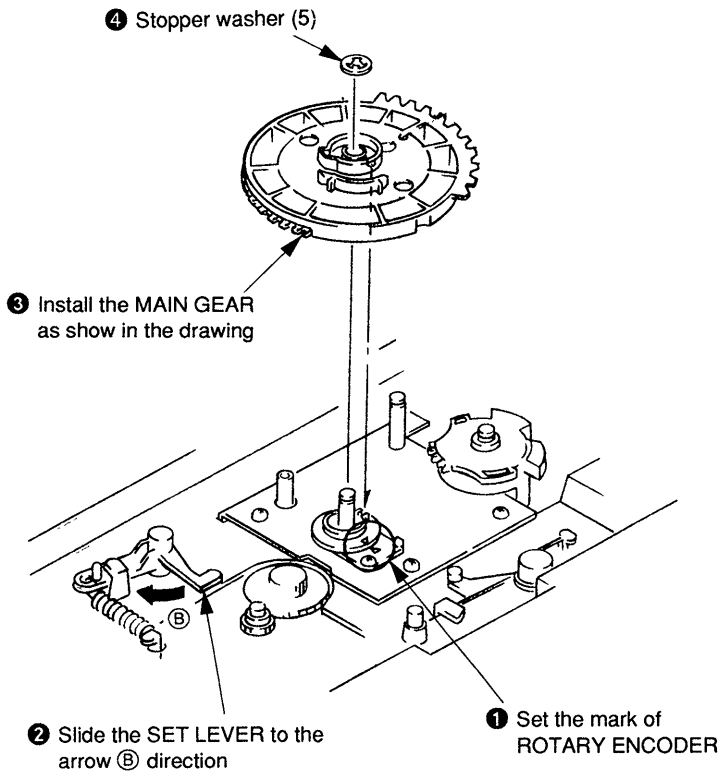


Fig. A. Using an AC voltmeter to check AC leakage.

HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS OFF



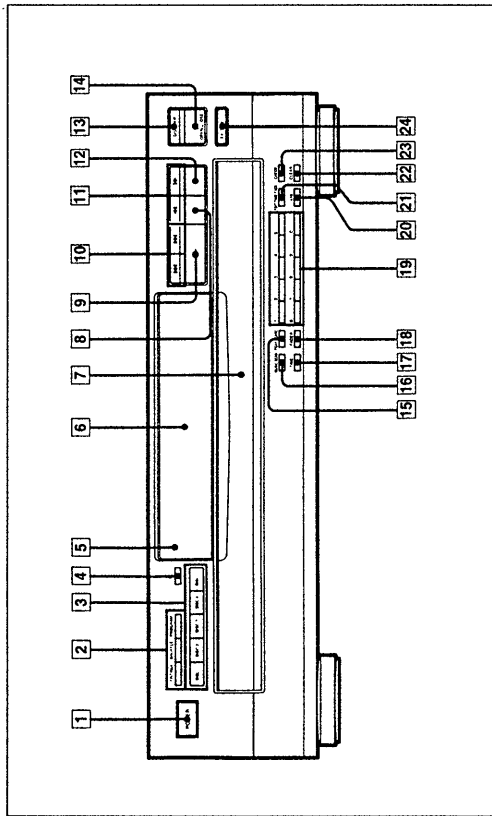
NOTE FOR MAIN GEAR INSTALLATION



SECTION 1 GENERAL

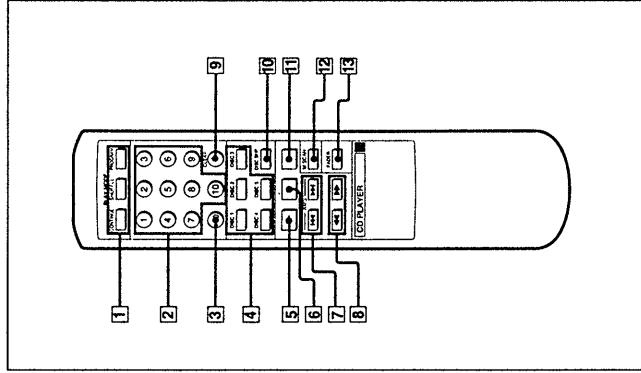
Identifying the Parts

Front Panel



- 1 POWER switch
- 2 PLAY MODE buttons
CONTINUE button
SHUFFLE button
PROGRAM button
- 3 DISC 1-5 buttons
- 4 DISC CHECK button
- 5 Remote sensor
(CDP-C365 only)
- 6 Display window
- 7 Disc tray
- 8 || (pause) button
- 9 ▶ (play) button
- 10 ◀◀◀▶▶▶ (AMS*) buttons
- 11 ◀◀◀▶▶▶ (manual search) buttons
- 12 ■ (stop) button
- 13 DISC SKIP button
- 14 ▲ OPEN/CLOSE button
- 15 PEAK SEARCH button
- 16 REPEAT button
- 17 TIME button
- 18 FADER button
- 19 Numeric buttons
- 20 >10 (over 10) button
- 21 EDIT/TIME FADE button
- 22 CLEAR button
- 23 CHECK button
- 24 EX-CHANGE button

Remote Commander (CDP-C365 only)

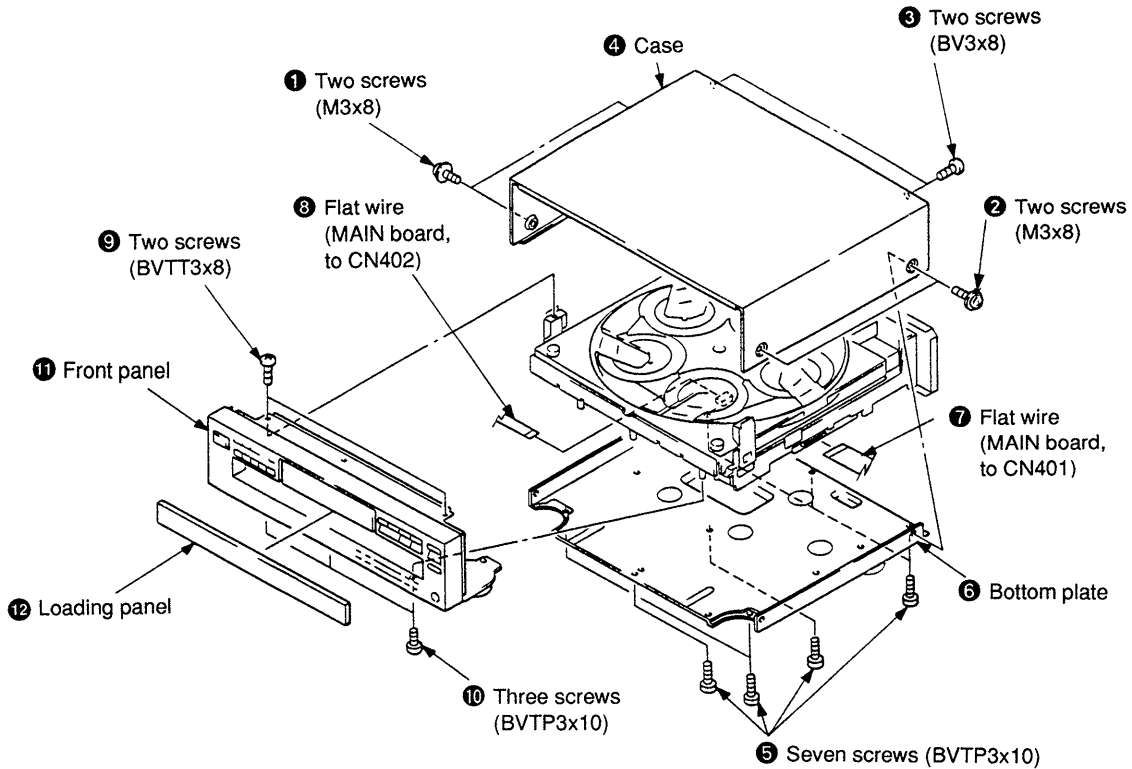


- 1 PLAY MODE buttons
CONTINUE button
SHUFFLE button
PROGRAM button
- 2 Numeric buttons
- 3 >10 (over 10) button
- 4 DISC 1-5 buttons
- 5 ▶ (play) button
- 6 || (pause) button
- 7 ◀◀◀▶▶▶ (AMS) buttons
- 8 ◀◀◀▶▶▶ (manual search) buttons
- 9 CLEAR button
- 10 DISC SKIP button
- 11 ■ (stop) button
- 12 MUSIC SCAN (M. SCAN) button
- 13 FADER button

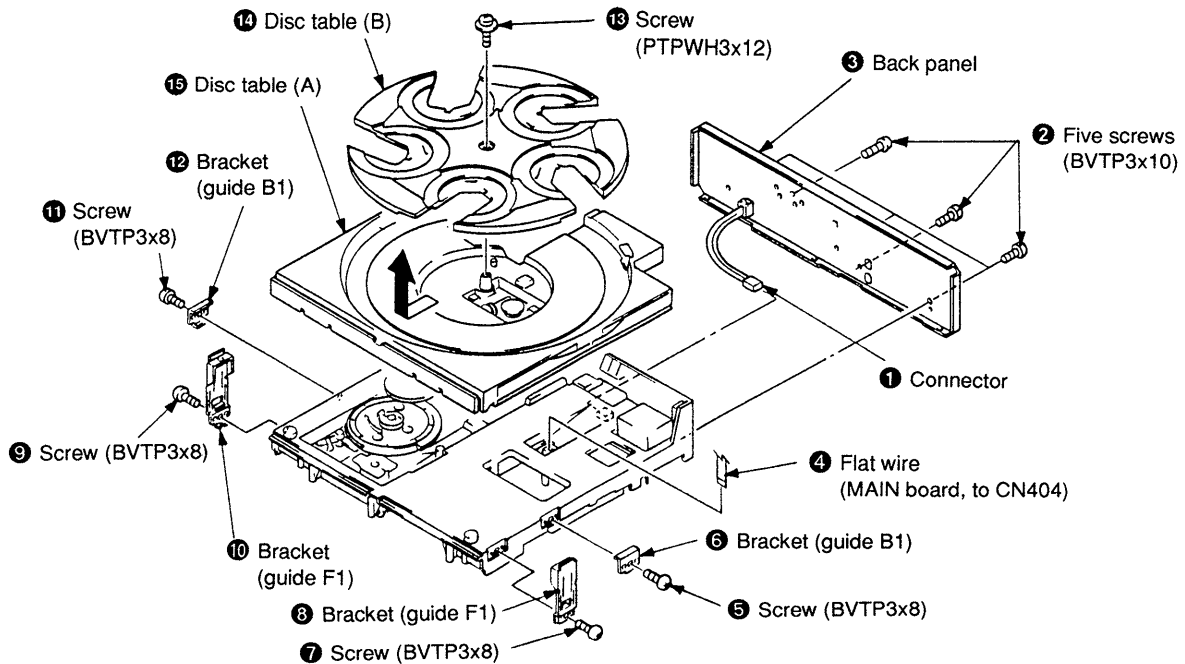
* AMS is the abbreviation for Automatic Music Sensor.

SECTION 2 DISASSEMBLY

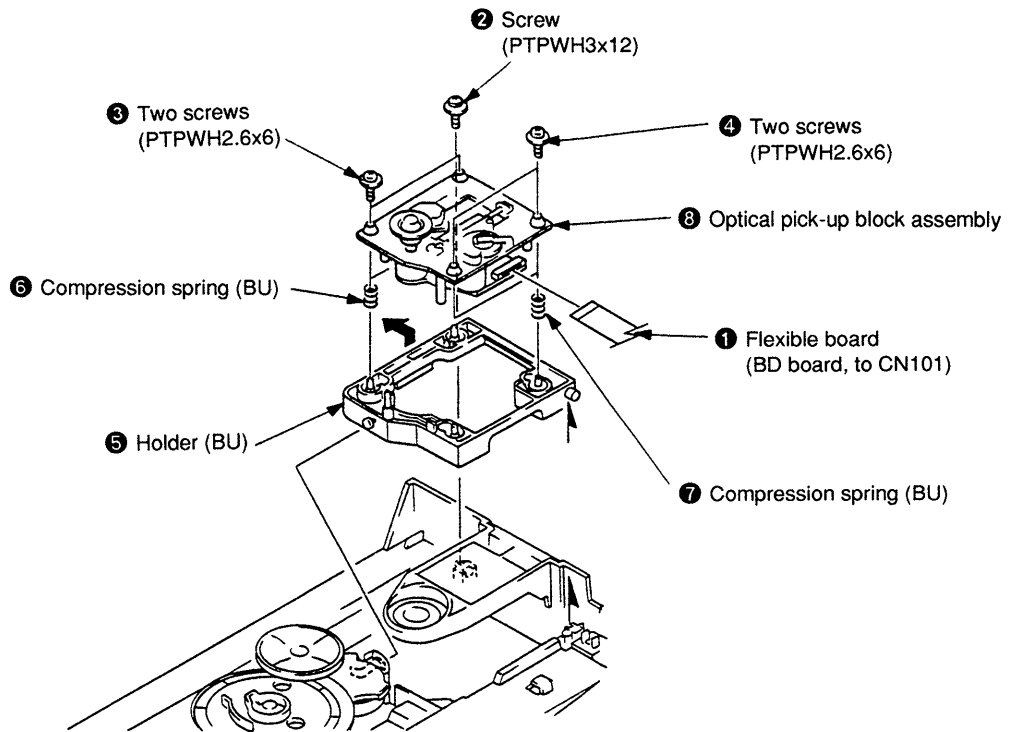
2-1. CASE, BOTTOM PLATE AND FRONT PANEL



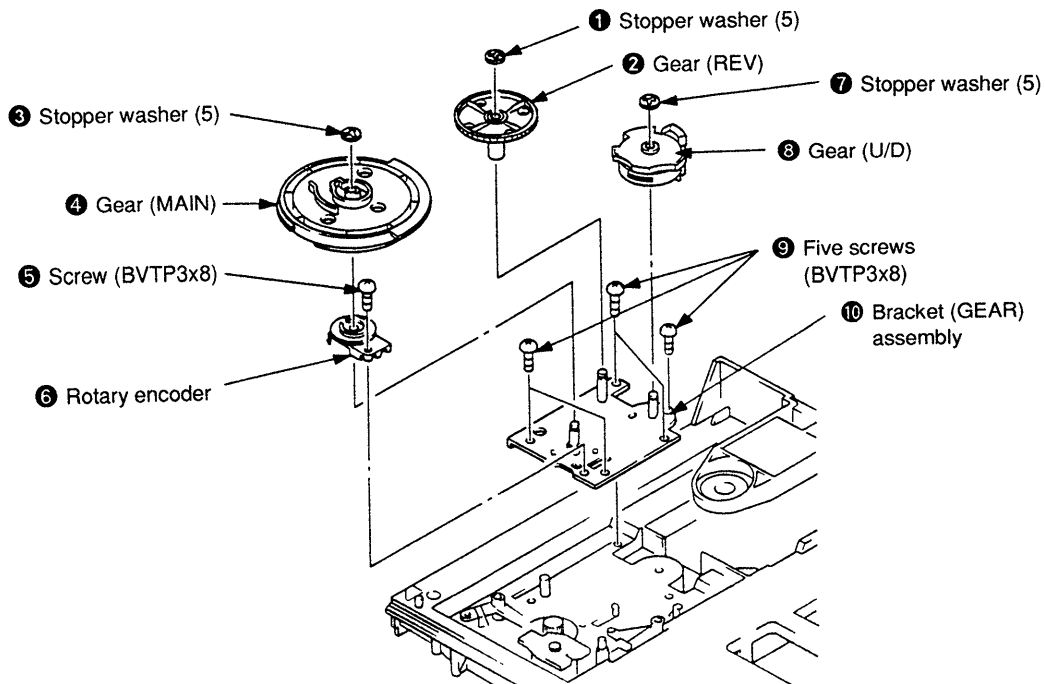
2-2. BACK PANEL AND DISC TABLE



2-3. OPTICAL PICK-UP BLOCK ASSEMBLY



2-4. BRACKET (GEAR) ASSEMBLY



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

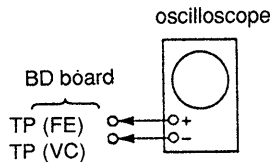
SECTION 3

ELECTRICAL BLOCK CHECKING

Note :

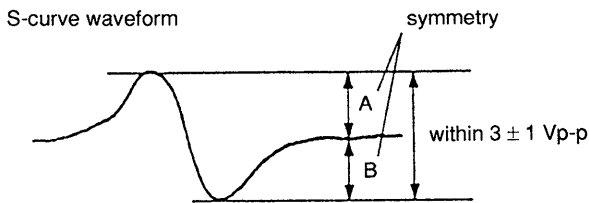
1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens using an applicator with neutral detergent when the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

S Curve Check



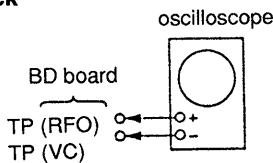
Procedure :

1. Connect oscilloscope to test point TP (FE) on BD board.
2. Connect between test point TP (FEI) and TP (VC) by lead wire.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and turn Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Check if the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3 ± 1 Vp-p.



6. After check, remove the lead wire connected in step 2.
- Note :**
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
 - Set sweep time as long as possible and set the brightness to obtain best waveform.

RF Level Check



Procedure :

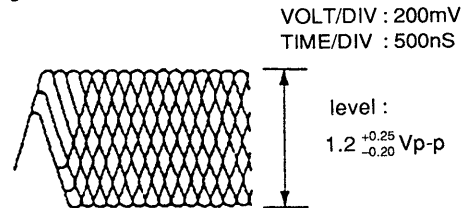
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.

3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check if RF signal level is correct or not.

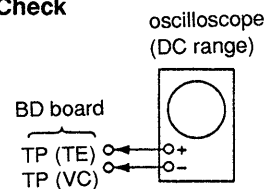
Note :

A clear RF signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.

RF signal waveform

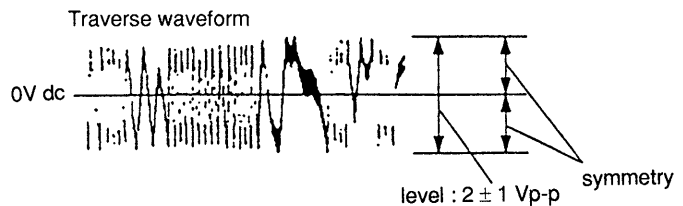


E-F Balance Check



Procedure :

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

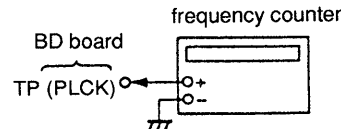


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

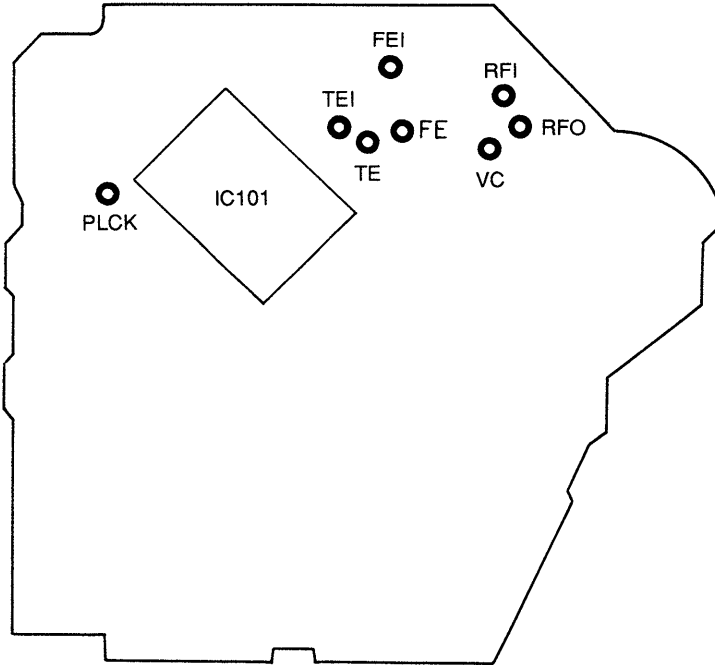
1. Connect frequency counter to test point (PLCK) with lead wire.



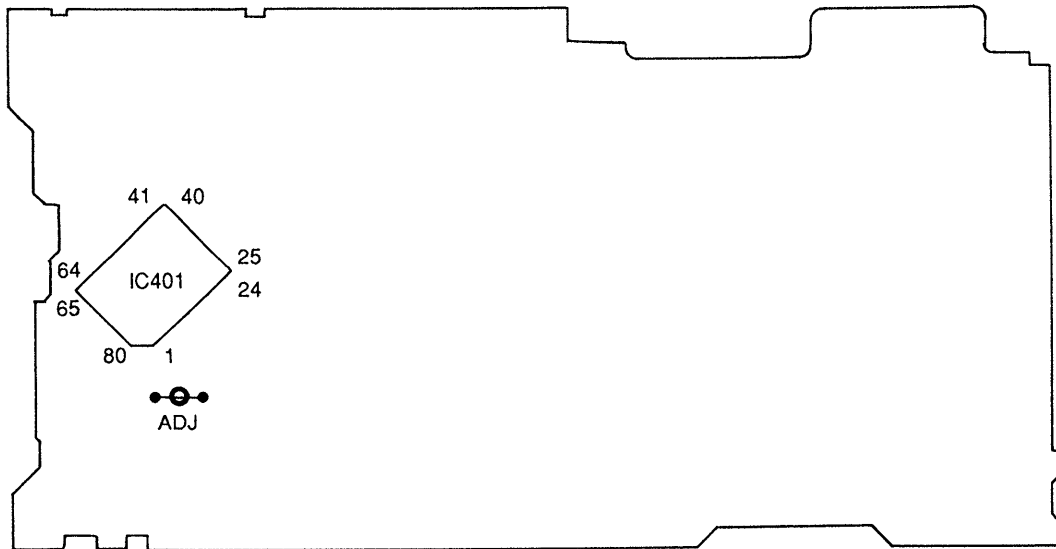
2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

Adjustment Location :

[BD BOARD] — Conductor Side —

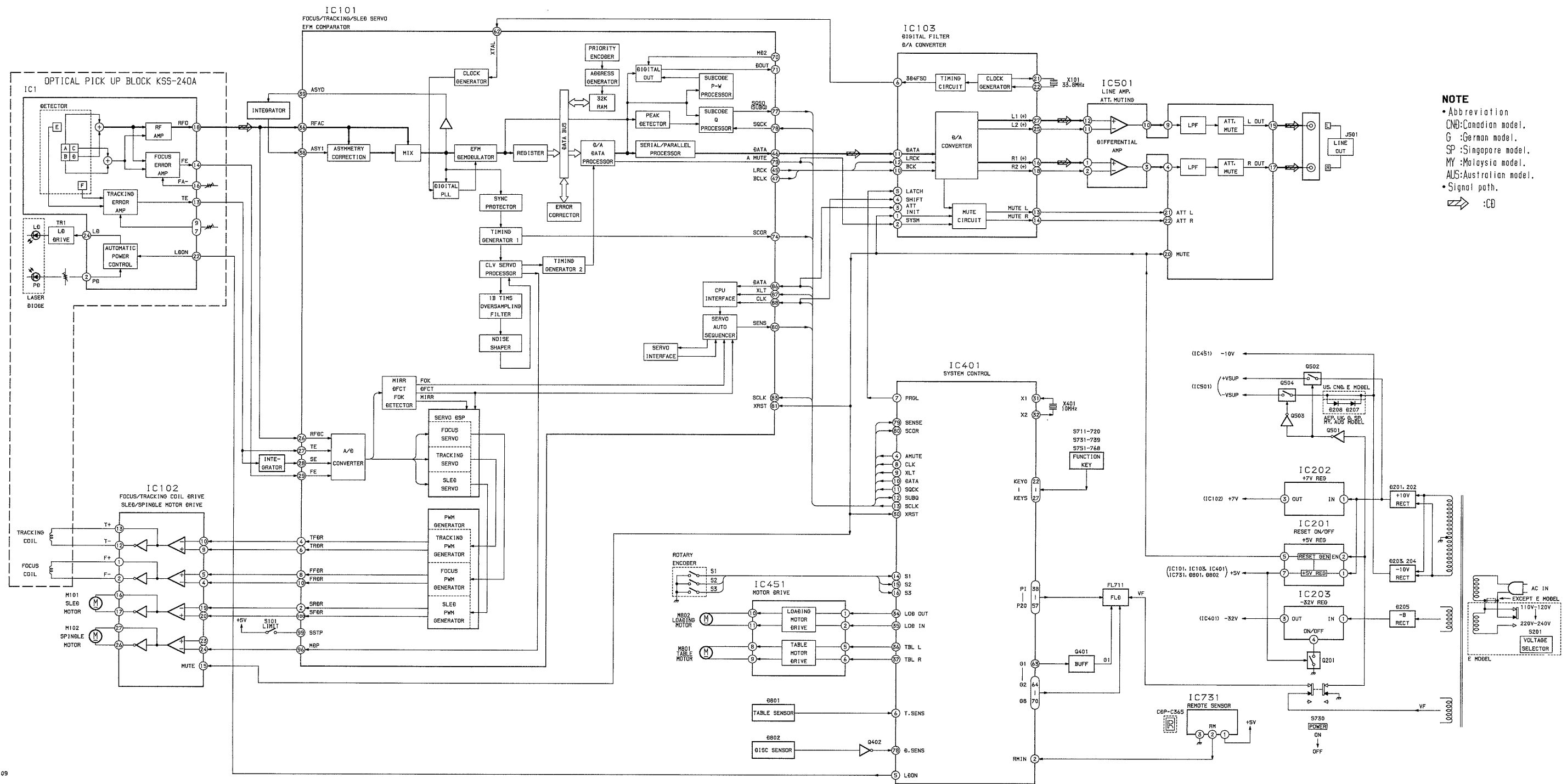


[MAIN BOARD] — Conductor Side —



SECTION 4 DIAGRAMS

4-1. BLOCK DIAGRAM

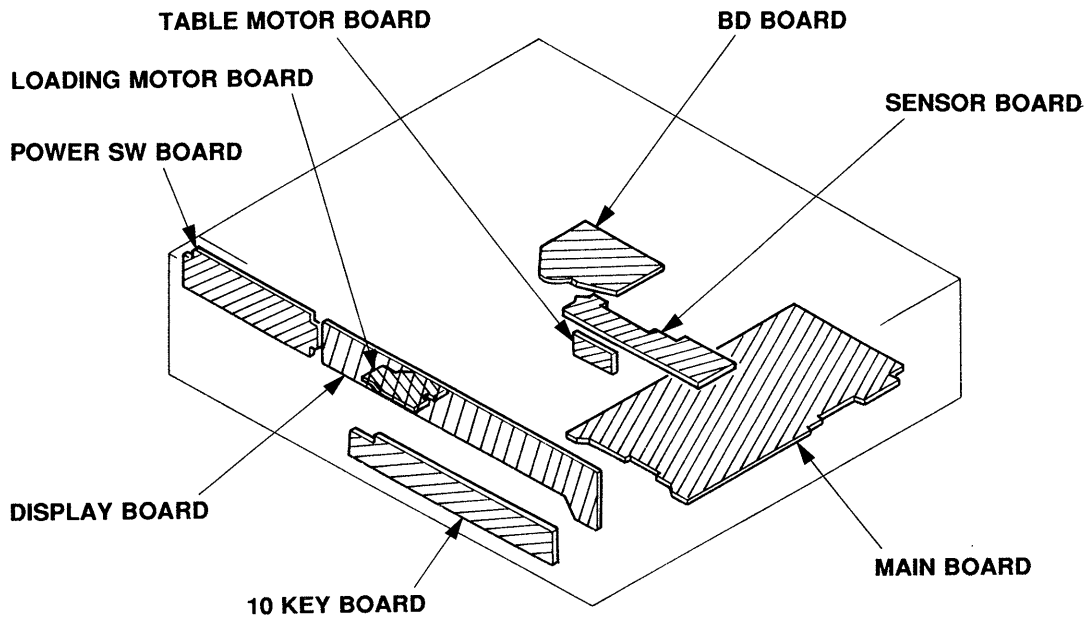


NOTE

- Abbreviation
- CND: Canadian model.
- G : German model.
- SP : Singapore model.
- MY : Malaysia model.
- AUS: Australian model.
- Signal path.

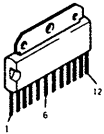
⇒ : CD

4-2. CIRCUIT BOARDS LOCATION

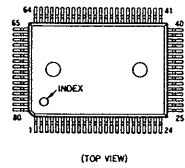


4-3. SEMICONDUCTOR LEAD LAYOUTS

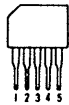
BA6191



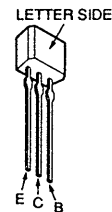
CXP82316-050Q



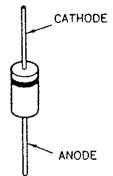
M5293L



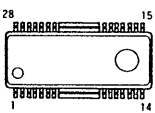
UN4111
2SA1175-HFE



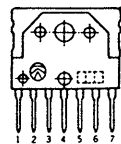
1N4148M



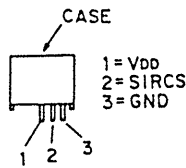
BA6392FP



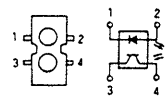
LA5602



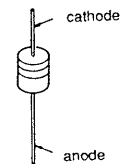
SBX1810-59



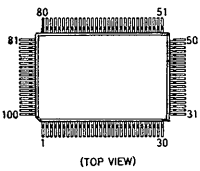
GP2S28



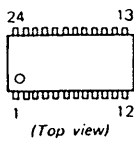
RD6.2ES-B1
RD9.1ES-B2
11ES2-NTA2B



CXD2515Q



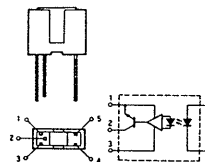
LA9215-ST



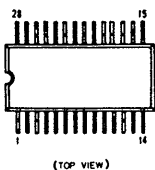
DTC114ES
DTC144ES
2SC2458-YGR



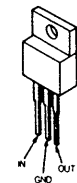
RPI-1391



CXD2565AM



M5F78M07L

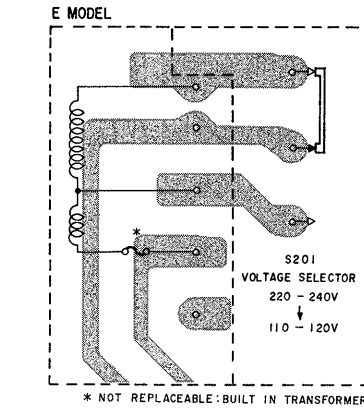
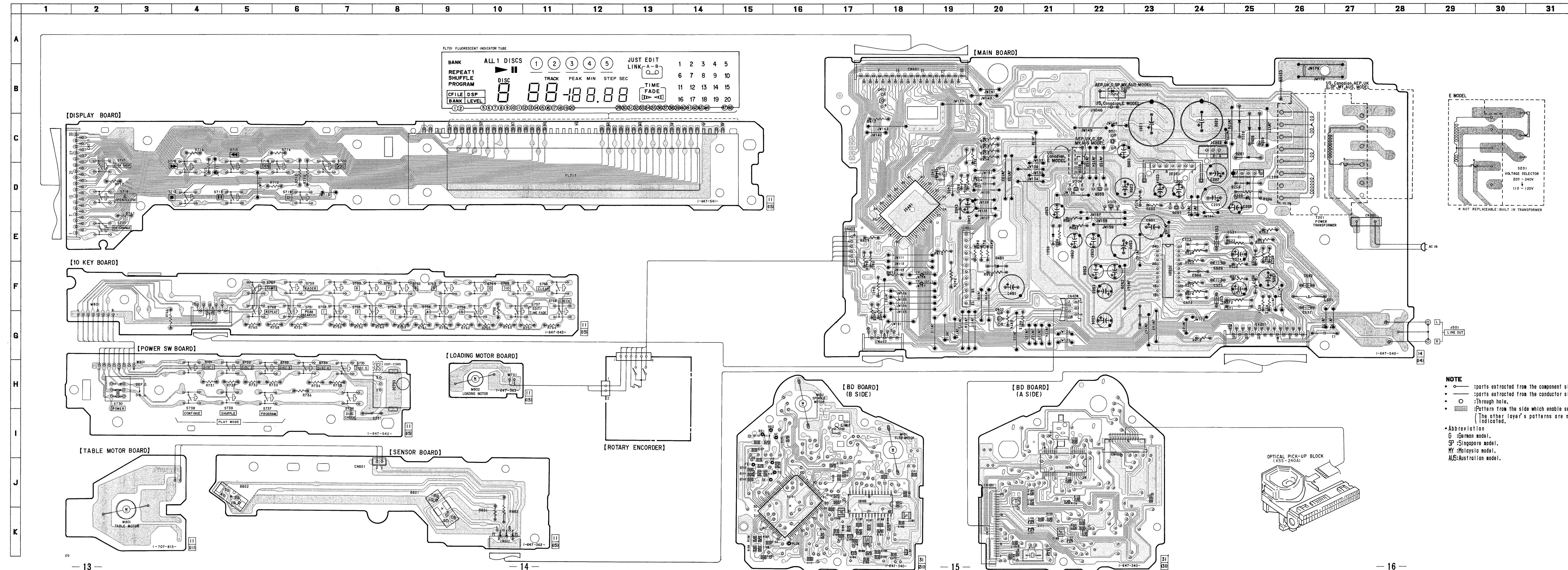


4-4. PRINTED WIRING BOARD

- See page 12 for Circuit Board Location.
- See page 12 for Semiconductor Lead Layouts.

• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| D201 | C-25 |
| D202 | C-25 |
| D203 | C-25 |
| D204 | C-25 |
| D205 | D-25 |
| D206 | D-25 |
| D207 | B-22 |
| D208 | D-22 |
| D451 | E-20 |
| D501 | E-21 |
| D801 | J-8 |
| D802 | J-5 |
| IC101 | J-16 |
| IC102 | J-21 |
| IC103 | J-17 |
| IC201 | D-23 |
| IC202 | C-24 |
| IC203 | D-25 |
| IC401 | D-18 |
| IC451 | E-19 |
| IC501 | F-23 |
| IC731 | H-8 |
| Q201 | D-24 |
| Q401 | B-18 |
| Q402 | F-20 |
| Q501 | C-22 |
| Q502 | D-22 |
| Q503 | D-22 |
| Q504 | D-22 |



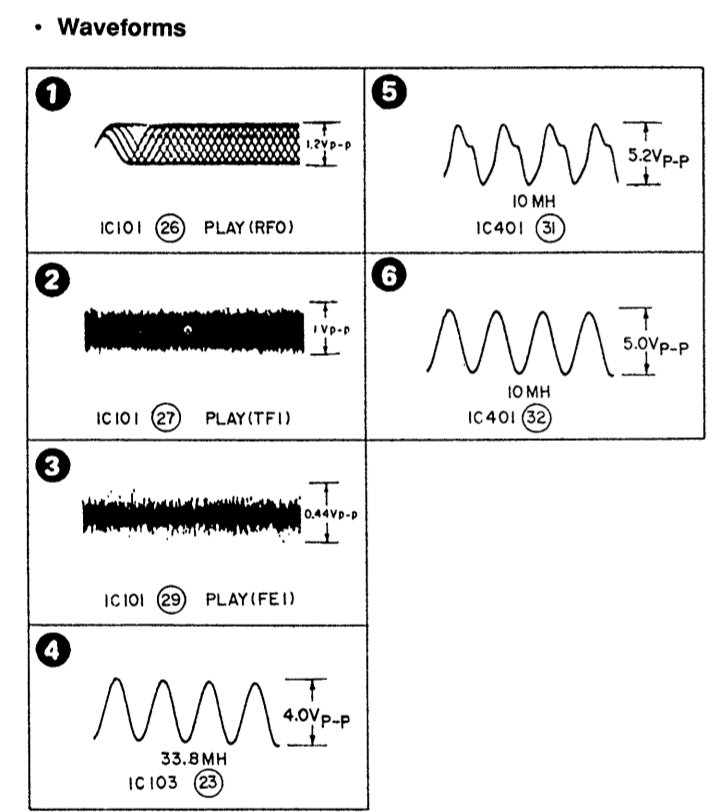
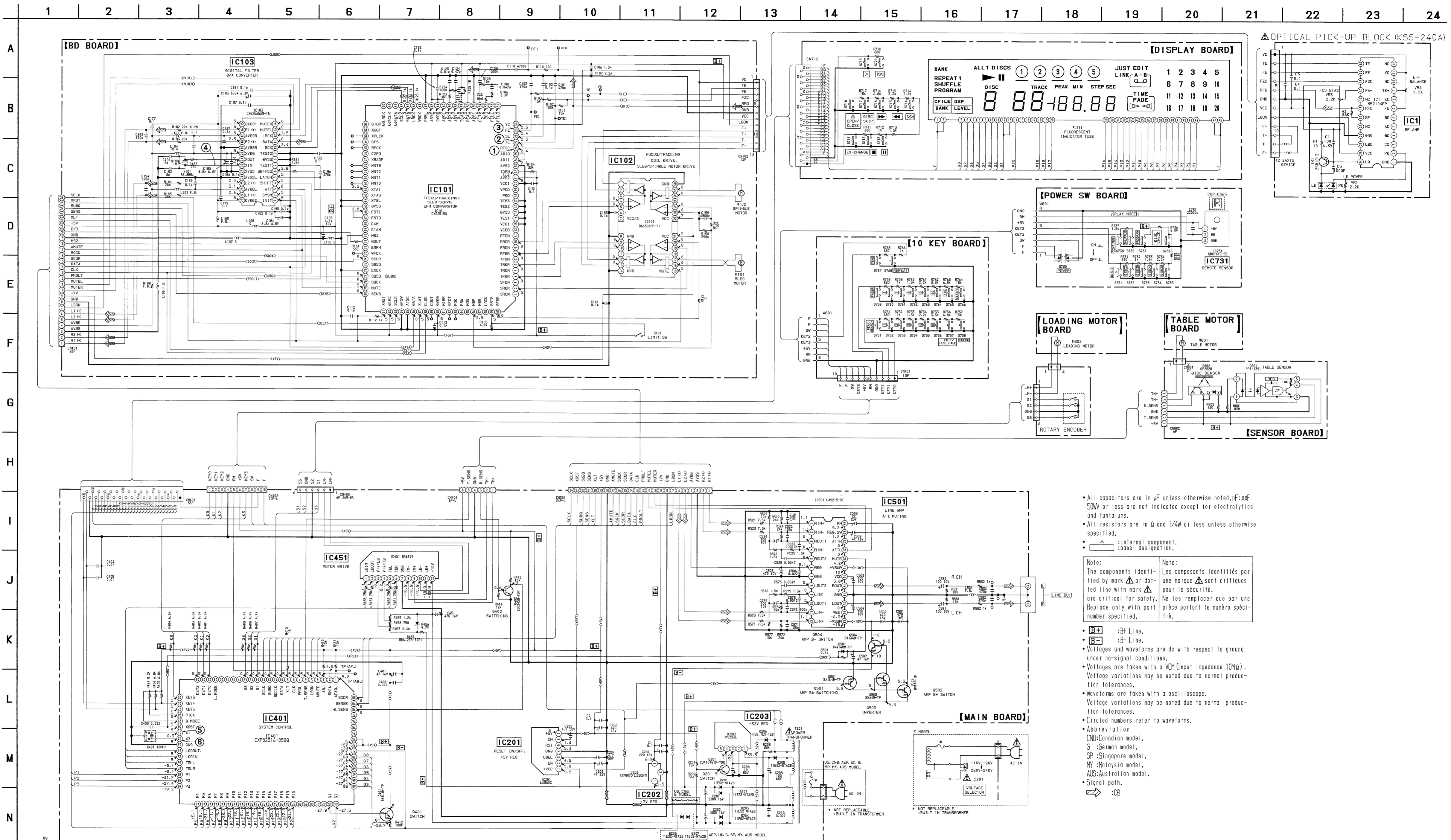
NOTE

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : through hole.
- : Pattern from the side which enable seeing. (The other layer's patterns are not indicated.)

Abbreviation

- G : German model.
- SP : Singapore model.
- MY : Malaysia model.
- AUS : Australian model.

4-5. SCHEMATIC DIAGRAM
- See page 21 for IC Block Diagrams.
- See page 23 for IC Pin Functions. (IC101, IC103, IC401)



All capacitors are in μF unless otherwise noted, pF = μF 50W or less are not indicated except for electrolytics and tantalums.

All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.

\square : internal component.

\triangle : panel designation.

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

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

\square : Bt Line.
 \square : B Line.

Voltages and waveforms are dc with respect to ground under no-signal 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 an oscilloscope. Voltage variations may be noted due to normal production tolerances.

Circled numbers refer to waveforms.

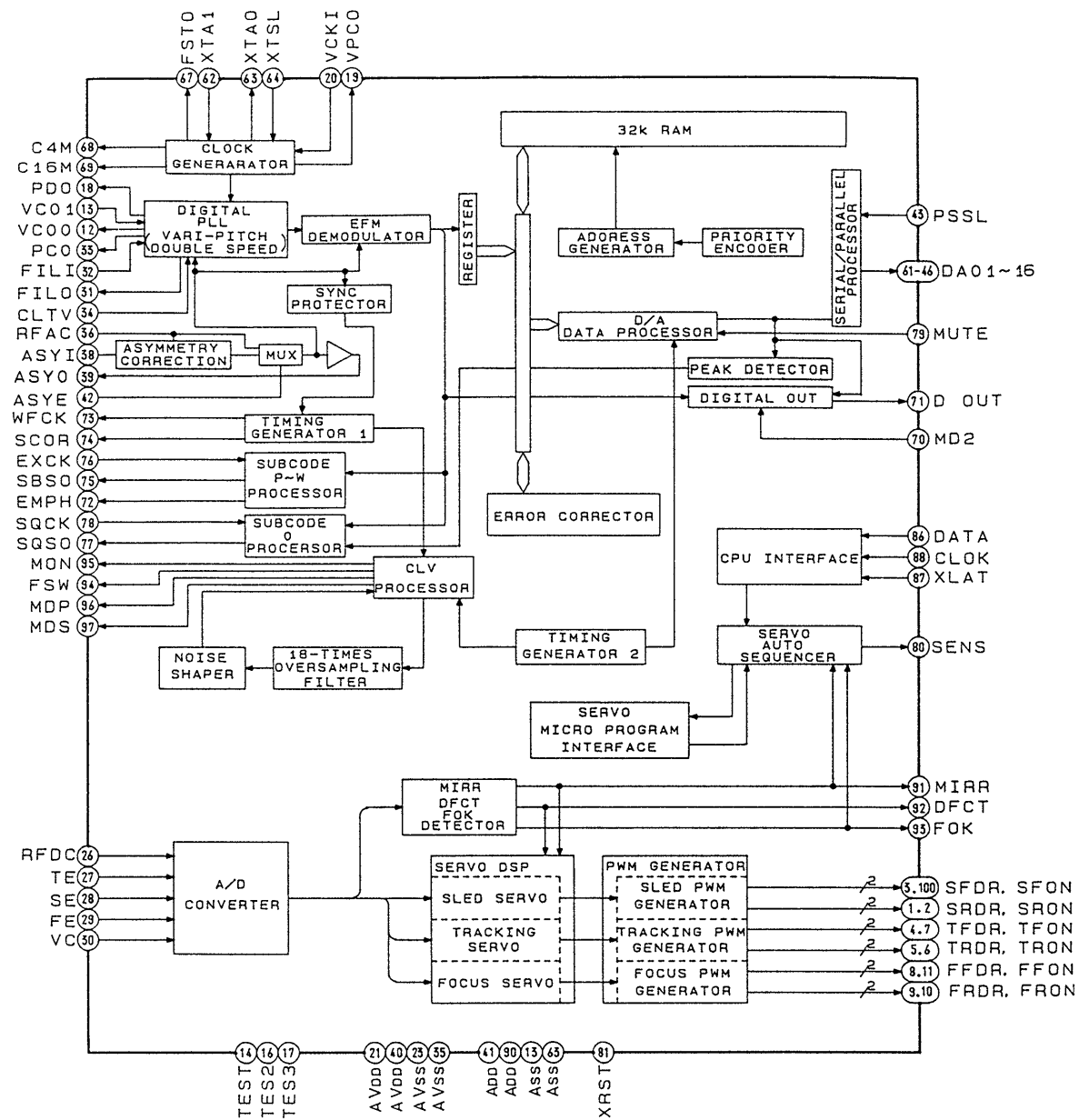
Abbreviation
CND: Canadian model.
G : German model.
SP : Singapore model.
MY : Malaysia model.
AUS: Australia model.

Signal path.

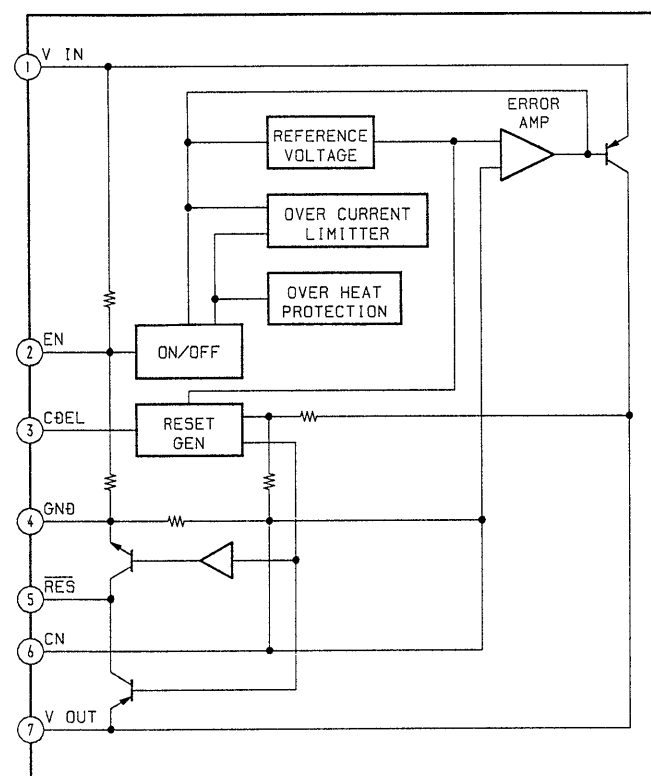
\Rightarrow : \square

4-6. IC BLOCK DIAGRAMS

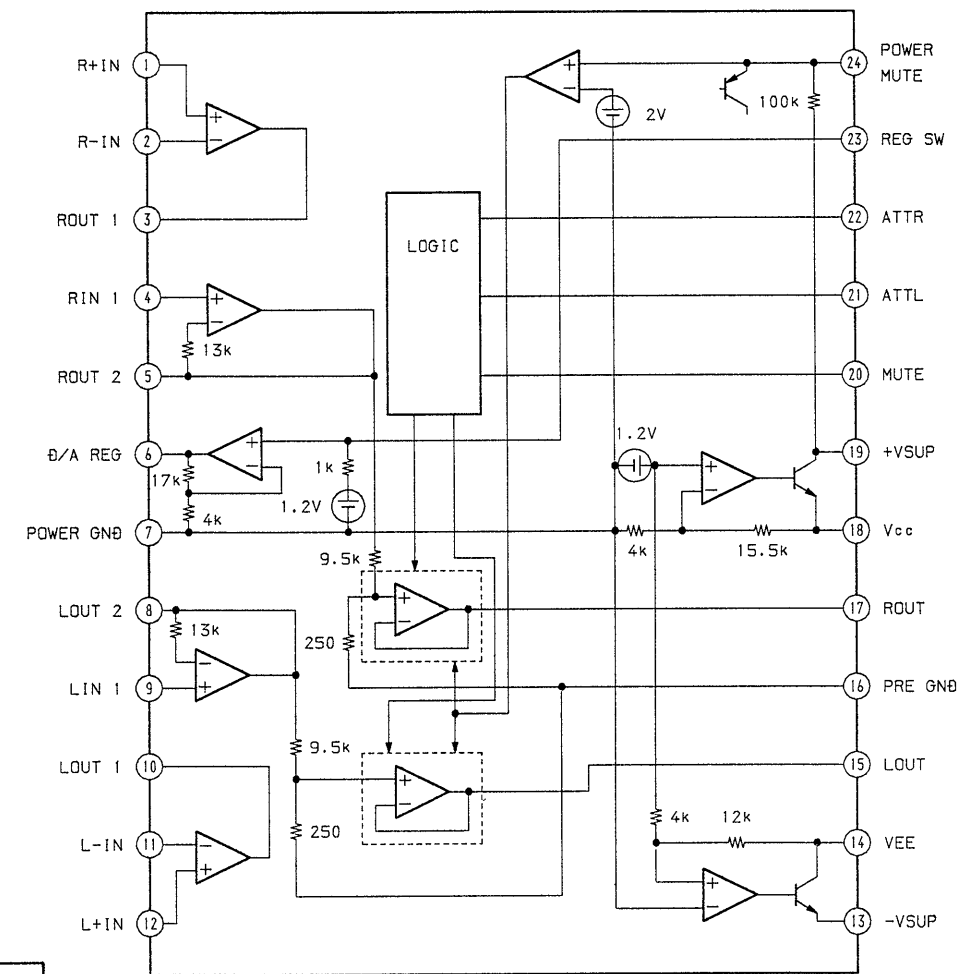
IC101 CXD2515Q



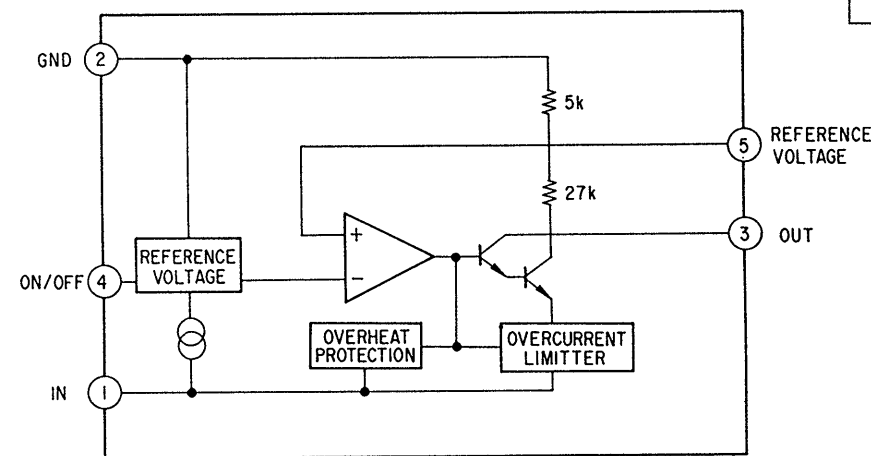
IC201 LA5602



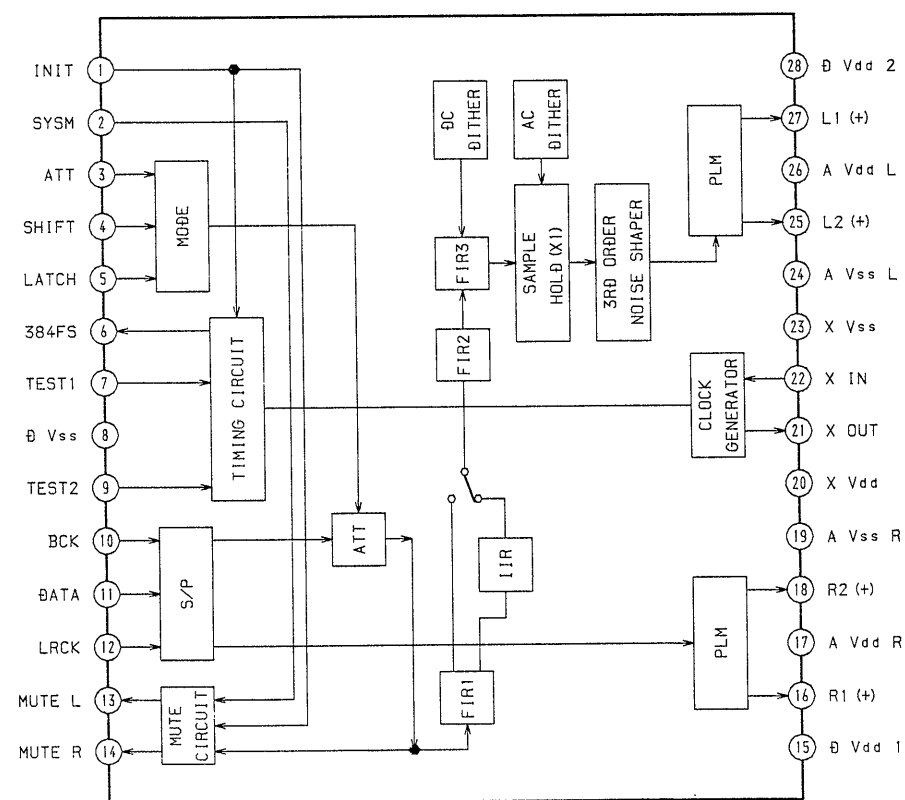
IC501 LA9215-ST



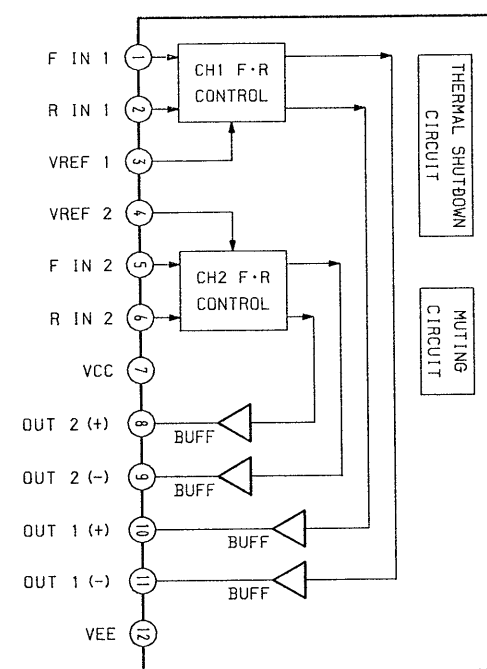
IC203 M5293L



IC103 CXD2565AM-T6



IC451 BA6191



4-7. IC PIN FUNCTIONS

• IC101 FOCUS/TRACKING/SLED SERVO, EFM COMPARATOR (CXD2515Q)

| Pin No. | Pin Name | I/O | Function |
|---------|----------|-----|---|
| 1 | SRON | O | Sled drive output (Not used) |
| 2 | SRDR | O | Sled drive output |
| 3 | SFON | O | Sled drive output (Not used) |
| 4 | TFDR | O | Tracking drive output |
| 5 | TRON | O | Tracking drive output (Not used) |
| 6 | TRDR | O | Tracking drive output |
| 7 | TFON | O | Tracking drive output (Not used) |
| 8 | FFDR | O | Focus drive output |
| 9 | FRON | O | Focus drive output (Not used) |
| 10 | FRDR | O | Focus drive output |
| 11 | FFON | O | Focus drive output (Not used) |
| 12 | VCOO | O | VCO output for analog EFM PLL (Not used) |
| 13 | VCOI | I | VCO output for analog EFM PLL (Connected to GND) |
| 14 | TEST | I | TEST pin connected normally to GND |
| 15 | DVss | — | Digital GND |
| 16 | TES2 | I | TEST pin connected normally to GND |
| 17 | TES3 | I | TEST pin connected normally to GND |
| 18 | PDO | O | Charge-pump output for analog EFM PLL (Not used) |
| 19 | VPCO | O | Charge-pump output for variable pitch PLL (Not used) |
| 20 | VCKI | I | Clock input from variable pitch external VCO (Connected to GND) |
| 21 | AVD2 | — | Analog power supply |
| 22 | IGEN | I | Power supply pin for operational amplifiers |
| 23 | AVS2 | — | Analog GND |
| 24 | ADII | I | Input pin for A/D converter |
| 25 | ADIO | O | Operational amplifier output pin |
| 26 | RFDC | I | RF signal input |
| 27 | TE | I | Tracking error signal input |
| 28 | SE | I | Sled error signal input |
| 29 | FE | I | Focus error signal input |
| 30 | VC | I | Center voltage input pin |
| 31 | FILO | O | Filter output for master PLL |
| 32 | FILI | I | Filter input for master PLL |
| 33 | PCO | O | Charge-pump output for master PLL |
| 34 | CLTV | I | Control voltage input for master VCO |
| 35 | AVS1 | — | Analog GND |
| 36 | RFAC | I | EFM signal input |
| 37 | BIAS | I | Asymmetry circuit constant current input |
| 38 | ASYI | I | Asymmetry compare voltage input |
| 39 | ASYO | O | EFM full swing output |
| 40 | AVD1 | — | Analog power supply |

| Pin No. | Pin Name | I/O | Function |
|---------|-------------|-----|---|
| 41 | DVDD | – | Digital power supply |
| 42 | ASYE | I | Asymmetry circuit ON/OFF (Connected to +5V) |
| 43 | PSSL | I | Audio data output mode selection input (Connected to GND) |
| 44 | WDCK | O | 48-bit slot D/A interface. Word clock (Not used) |
| 45 | LRCK | O | 48-bit slot D/A interface. LR clock |
| 46 | DATA | O | DA 16 output when PSSL=1. 48-bit slot serial data when PSSL=0 |
| 47 | BCLK | O | DA 15 output when PSSL=1. 48-bit slot data when PSSL=0 |
| 48 | 64DATA | O | DA 14 output when PSSL=1. 64-bit slot data when PSSL=0 (Not used) |
| 49 | 64BCLK | O | DA 13 output when PSSL=1. 64-bit slot data when PSSL=0 (Not used) |
| 50 | 64LRCK | O | DA 12 output when PSSL=1. 64-bit slot data when PSSL=0 (Not used) |
| 51 | GTOP | O | DA 11 output when PSSL=1. GTOP output when PSSL=0 (Not used) |
| 52 | XUGF | O | DA 10 output when PSSL=1. XUGF output when PSSL=0 (Not used) |
| 53 | XPLCK | O | DA 09 output when PSSL=1. XPLCK output when PSSL=0 |
| 54 | GFS | O | DA 08 output when PSSL=1. GFS output when PSSL=0 |
| 55 | PFCK | O | DA 07 output when PSSL=1. RFCK output when PSSL=0 |
| 56 | C2PO | O | DA 06 output when PSSL=1. C2PO output when PSSL=0 (Not used) |
| 57 | XRAOF | O | DA 05 output when PSSL=1. XRA0F output when PSSL=0 (Not used) |
| 58 | MNT3 | O | DA 04 output when PSSL=1. MNT3 output when PSSL=0 |
| 59 | MNT2 | O | DA 03 output when PSSL=1. MNT2 output when PSSL=0 |
| 60 | MNT1 | O | DA 02 output when PSSL=1. MNT1 output when PSSL=0 |
| 61 | MNT0 | O | DA 01 output when PSSL=1. MNT0 output when PSSL=0 |
| 62 | XTAI | I | X'tal oscillator circuit input |
| 63 | XTAO | O | X'tal oscillator circuit output (Not used) |
| 64 | XTSL | I | X'tal selection input pin (Connected to GND) |
| 65 | DVss | – | Digital GND |
| 66 | FSTI | I | 2/3 divider output of pins 62, 63 |
| 67 | FSTO | O | 2/3 divider output of pins 62, 63 |
| 68 | C4M | O | 4.2336 MHz output (Not used) |
| 69 | C16M | O | 16.9344 MHz output (Not used) |
| 70 | MD2 | I | Digital-out ON/OFF control pin |
| 71 | DOUT | O | Digital-out output pin |
| 72 | EMPH | O | Playback disc output in emphasis mode (Not used) |
| 73 | WFCK | O | WFCK output |
| 74 | SCOR | O | Sub-code sync output |
| 75 | SBSO | O | Sub-P through Sub-W serial output (Not used) |
| 76 | EXCK | I | Clock input for SBS0 read-out (Connected to GND) |
| 77 | SQSO (SUBQ) | O | Sub-Q 80-bit output |
| 78 | SQCK | I | Clock input for SQS0 read-out |
| 79 | MUTE | I | Muting selection pin |
| 80 | SENS | O | SENS output |
| 81 | XRST | I | System reset |
| 82 | DIRC | I | Used in 1-track jump mode |
| 83 | SCLK | I | SENS serial data read-out clock |
| 84 | DFSW | I | DFCT selection pin (Connected to GND) |
| 85 | ATSK | I | Input pin for anti-shock (Connected to GND) |

| Pin No. | Pin Name | I/O | Function |
|---------|----------|-----|---|
| 86 | DATA | I | Serial data input, supplied from CPU |
| 87 | XLAT | I | Latch input, supplied from CPU |
| 88 | CLOK | I | Serial data transfer clock input, supplied from CPU |
| 89 | COUT | O | Numbers of track counted signal output |
| 90 | DVDD | — | Digital power supply |
| 91 | MIRR | O | Mirror signal output (Not used) |
| 92 | DFCT | O | Defect signal output |
| 93 | FOK | O | Focus OK output |
| 94 | FSW | O | Output to select spindle motor output filter (Not used) |
| 95 | MON | O | Output to control ON/OFF of spindle motor (Not used) |
| 96 | MDP | O | Output to control spindle motor servo |
| 97 | MDS | O | Output to control spindle motor servo (Not used) |
| 98 | LOCK | O | GFS is sampled by 460 Hz. H when GFS is H (Not used) |
| 99 | SSTP | I | Input signal to detect disc inner most track |
| 100 | SFDR | O | Sled drive output |

• IC103 DIGITAL FILTER, D/A CONVERTER (CXD2565AM-T6)

| Pin No. | Pin Name | I/O | Function |
|---------|----------|-----|--|
| 1 | INIT | I | Re-synchronizing at rise-up edge of this signal |
| 2 | SYSM | — | System muting input |
| 3 | ATT | I | Attenuation data input |
| 4 | SHIFT | I | Shift clock input |
| 5 | LATCH | I | Latch clock input |
| 6 | 384FSO | O | 384fs clock output |
| 7 | TEST1 | — | Test pin. Fixed to "L" level during normal operation |
| 8 | DVss | — | Digital GND |
| 9 | TEST2 | — | Test pin. Fixed to "L" level during normal operation |
| 10 | BCK | I | BCK input |
| 11 | DATA | I | Data input |
| 12 | LRCK | I | LRCK input |
| 13 | MUTEL | O | Not used |
| 14 | MUTER | O | Not used |
| 15 | DVDD1 | — | Digital power supply |
| 16 | R1 (+) | O | R-ch PLM output-1 (positive phase) |
| 17 | AVDDR | — | L-ch analog power supply |
| 18 | R2 (+) | O | R-ch PLM output-2 (positive phase) |
| 19 | AVssR | — | L-ch analog GND |
| 20 | XVDD | — | Master clock power supply |
| 21 | XOUT | O | X'tal oscillator output (33.8 MHz) |
| 22 | XIN | I | X'tal oscillator input (33.8 MHz) |
| 23 | XVss | — | Master clock GND |
| 24 | AVssL | — | L-ch analog GND |
| 25 | L2 (+) | O | L-ch PLM output-2 (positive phase) |
| 26 | AVDDL | — | L-ch analog power supply |
| 27 | L1 (+) | O | L-ch PLM output-1 (positive phase) |
| 28 | DVDD2 | — | Digital power supply |

• IC401 SYSTEM CONTROL (CXP82316-050Q)

| Pin No. | Pin Name | I/O | Function |
|----------|--------------|-----|--|
| 1 | AF ADJ | I | Test mode pin. Normally: "H" |
| 2 | RM IN | I | Remote control signal input pin. |
| 3 | ADJ | I | Test mode pin. Normally: "H" |
| 4 | A MUTE | O | Analog muting control signal output pin. |
| 5 | LDON | O | Optical pick-up laser diode control pin. ON: "H" |
| 6 | T.SEN | I | Slit sensor of disc table input pin. |
| 7 | PRGL | O | Latch signal output pin to digital filter IC. |
| 8 | CLK | O | Serial clock output pin. |
| 9 | XLT | O | Serial data latch signal output pin. |
| 10 | DATA | O | Serial data output pin. |
| 11 | SQCLK | O | Subcode Q data readout clock output pin. |
| 12 | SUBQ | I | Subcode Q data input pin. |
| 13 | SCLK | O | Internal register of SSP/DSP readout clock output pin. |
| 14 to 16 | S1 to S3 | I | Loading encoder input pin. |
| 17 to 20 | — | — | Not used. |
| 21 | L.MODE | I | Loading mode setup pin. |
| 22 to 27 | KEY0 to KEY5 | I | Key input pin. (A/D) |
| 28 | PICK | I | Optical pick-up setup pin. 0V: KSS-240A, 2.5V: KSS-390A, 5V: Automatic discrimination |
| 29 | D.MODE | I | Disc table feeling and stop precision fine adjustment pin. |
| 30 | XRST | I | Reset signal input pin. |
| 31 | X1 | I | 10MHz clock input pin. |
| 32 | X2 | O | 10MHz clock output pin. |
| 33 | GND | — | GND |
| 34 | LODOUT | O | Loading motor control pin. |
| 35 | LODIN | O | Loading motor control pin. |
| 36 | TBLL | O | Table motor control pin. |
| 37 | TBLR | O | Table motor control pin. |
| 38 to 57 | P1 to P20 | O | FL segment output pin. |
| 58 to 62 | | — | Not used. |
| 63 to 70 | G1 to G8 | O | FL timing output pin. |
| 71 | -30V | — | -30V |
| 72 | +5V | — | +5V |
| 73 | | — | +5V |
| 74 to 77 | | — | Not used. |
| 78 | D.SENS | I | Disc sensor input pin. "L": disc present. |
| 79 | SENSE | I | SENSE signal input pin. |
| 80 | SCOR | I | Subcode Q data readout timing signal input pin. |

SECTION 5 EXPLODED VIEWS

NOTE:

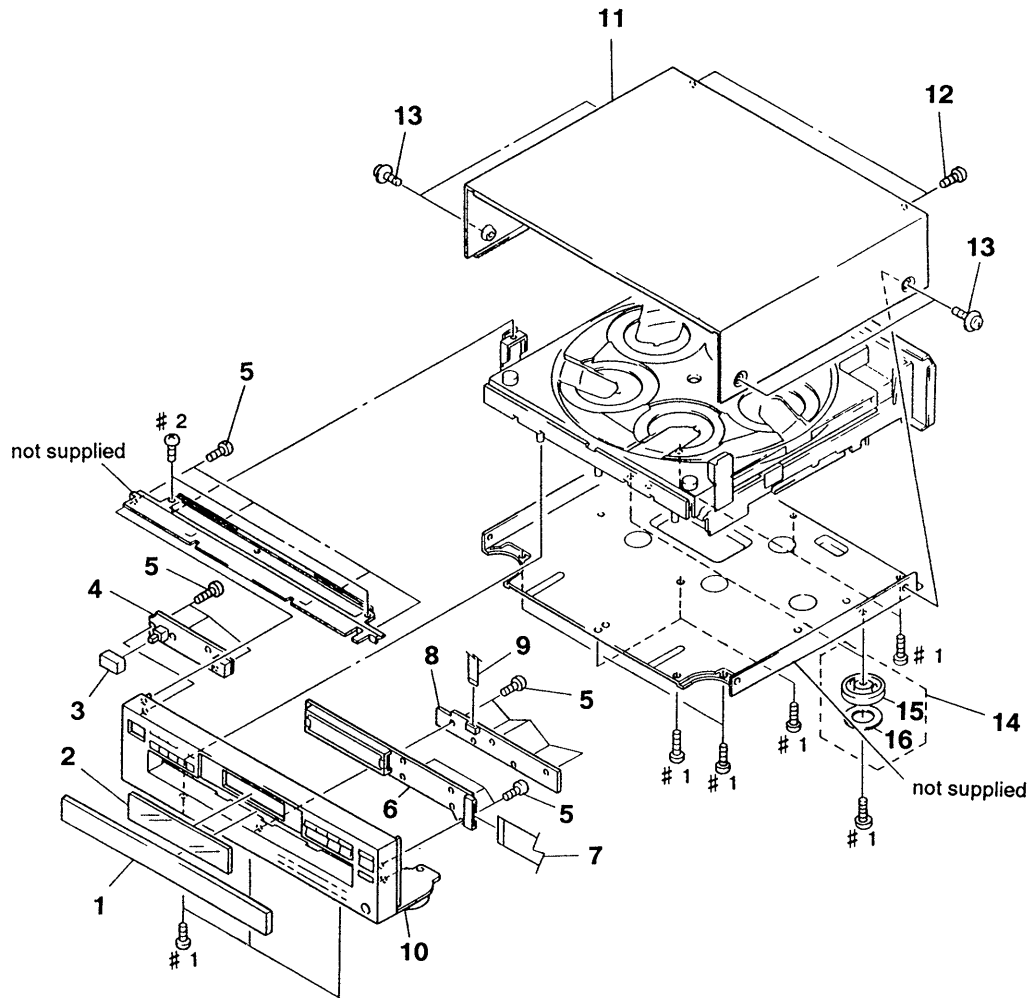
- Items marked “ * ” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The mechanical parts with no reference number in the exploded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

- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
 CND : Canadian model
 G : German model
 SP : Singapore model
 MY : Malaysia model
 AUS : Australian model

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

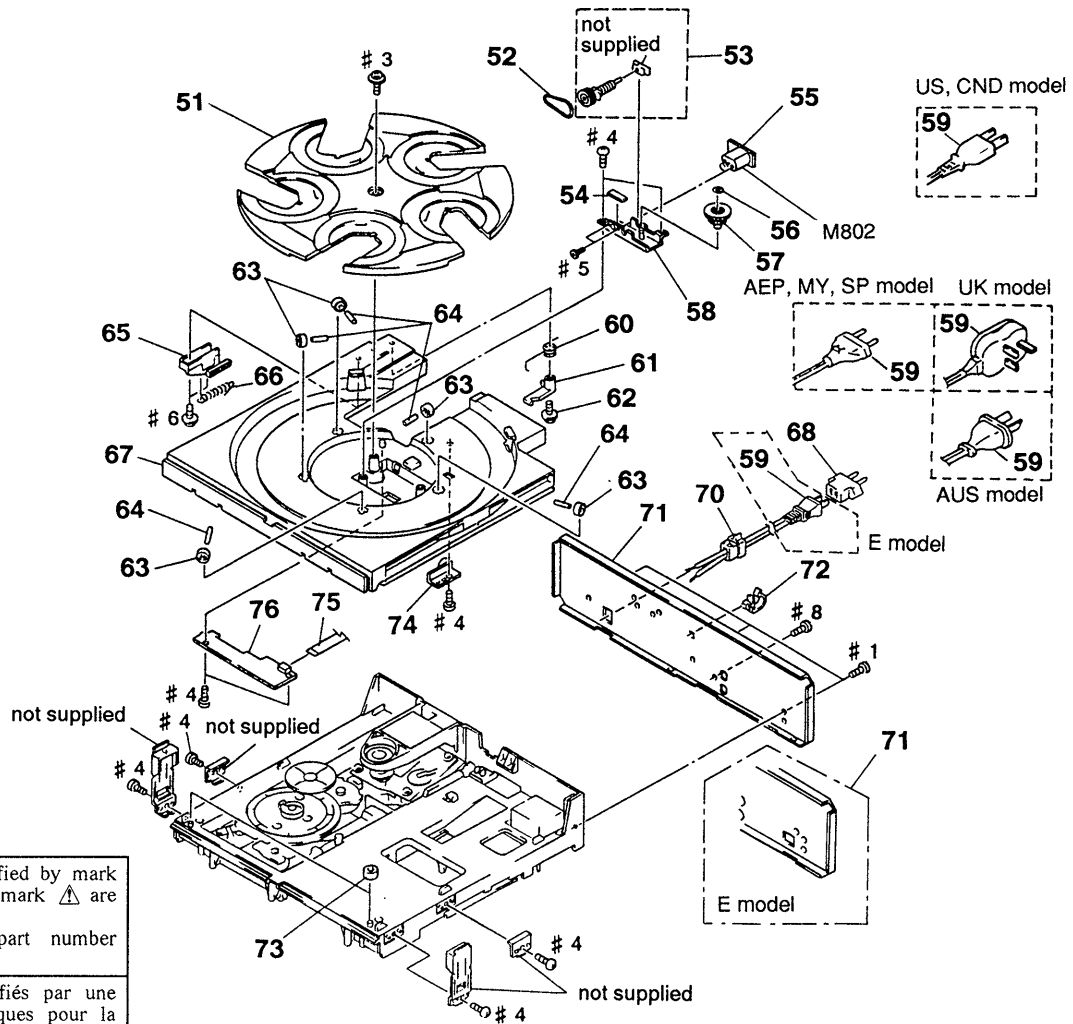
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

5-1. FRONT PANEL AND CASE SECTIONS



| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|----------------------------------|--------|----------|--------------|---|--------|
| 1 | 4-964-390-01 | PANEL, LOADING (C365) | | 10 | X-4945-452-1 | PANEL ASSY, FRONT (C265:AEP, UK, G, AUS) | |
| 1 | 4-964-390-11 | PANEL, LOADING (C265) | | 10 | X-4945-453-1 | PANEL ASSY, FRONT (C365:US, CND) | |
| 2 | 4-957-548-01 | PLATE (FL), INDICATION (C365) | | 10 | X-4945-454-1 | PANEL ASSY, FRONT (C365:AEP, UK, E, G, MY, SP, AUS) | |
| 2 | 4-957-548-11 | PLATE (FL), INDICATION (C265) | | | | | |
| 3 | 4-922-921-31 | BUTTON (POWER) | | | | | |
| * 4 | 1-647-542-11 | POWER SW BOARD | | 11 | 4-944-153-01 | CASE | |
| 5 | 4-951-620-01 | SCREW (2.6X8), +BVTP | | * 11 | 4-944-153-51 | CASE | |
| * 6 | 1-647-541-11 | DISPLAY BOARD | | 12 | 3-703-685-21 | SCREW (+BV 3X8) | |
| 7 | 1-751-053-11 | WIRE (FLAT TYPE)(33 CORE) | | 13 | 3-363-099-01 | SCREW (CASE 3 TP2) | |
| * 8 | 1-647-543-11 | 10 KEY BOARD | | 14 | X-4941-228-1 | FOOT ASSY (US, CND, E, AUS) | |
| 9 | 1-751-054-11 | WIRE (FLAT TYPE)(10 CORE) | | 15 | 4-937-929-31 | FOOT (DIA. 58) (AEP, UK, G, MY, SP) | |
| 10 | X-4945-451-1 | PANEL ASSY, FRONT (C265:US, CND) | | 16 | 4-923-836-21 | CUSHION (AEP, UK, G, MY, SP) | |

5-2. BACK PANEL AND DISK TABLE SECTION

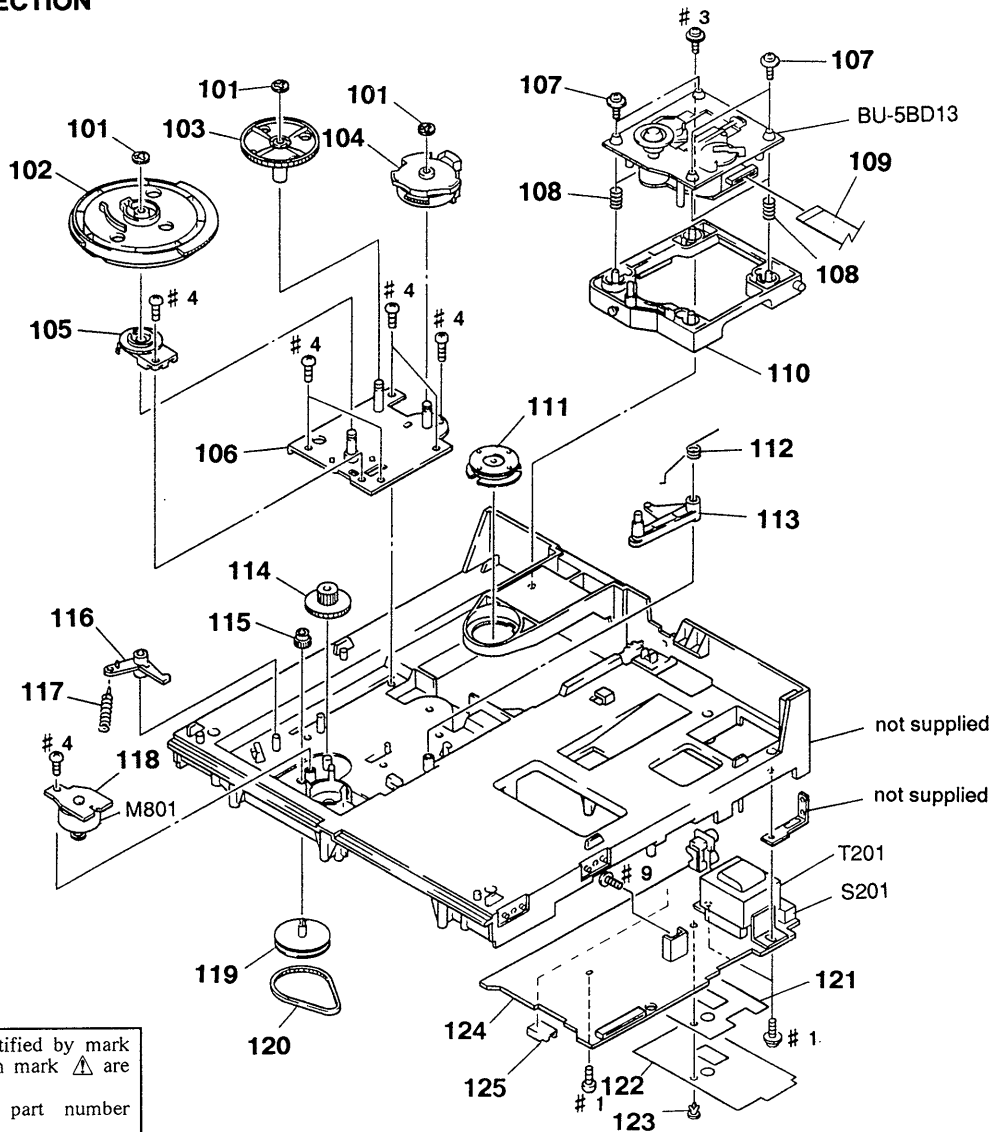


The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

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

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------------|--------------|---|--------|----------|--------------|--|--------|
| * 51 | 4-957-299-11 | TABLE (B), DISK | | * 70 | 3-703-244-00 | BUSHING (2104), CORD (US, CND, AEP, UK, G, MY, SP, AUS) | |
| 52 | 4-957-304-01 | BELT (RM) | | 70 | 3-703-571-11 | BUSHING (S) (4516), CORD (C365:E) | |
| 53 | X-4943-479-1 | GEAR (ROTARY A) ASSY | | * 71 | 4-971-080-01 | PANEL, BACK (C365:US) | |
| * 54 | 4-957-295-11 | CUSHION (RM) | | * 71 | 4-971-080-11 | PANEL, BACK (C365:AEP, MY, SP) | |
| * 55 | 1-650-082-11 | TABLE MOTOR BOARD | | * 71 | 4-971-080-21 | PANEL, BACK (C365:UK) | |
| 56 | 3-325-697-21 | WASHER | | * 71 | 4-971-080-31 | PANEL, BACK (C365:AUS) | |
| 57 | 4-957-284-01 | GEAR (LOTARY B) | | * 71 | 4-971-080-41 | PANEL, BACK (C365:E) | |
| 58 | X-4944-128-1 | BRACKET (RM) ASSY | | * 71 | 4-971-080-51 | PANEL, BACK (made in MALAYSIA) (C265:US) | |
| \triangle 59 | 1-575-042-21 | CORD, POWER (US, CND) | | * 71 | 4-971-080-61 | PANEL, BACK (C265:AEP) | |
| \triangle 59 | 1-575-651-21 | CORD, POWER (C265:AEP, G/C365:AEP, G, MY, SP) | | * 71 | 4-971-080-71 | PANEL, BACK (C265:UK) | |
| \triangle 59 | 1-696-027-11 | CORD, POWER (C365:E) | | * 71 | 4-971-080-81 | PANEL, BACK (C265:AUS) | |
| \triangle 59 | 1-696-845-11 | CORD, POWER (AUS) | | * 71 | 4-971-532-01 | PANEL, BACK (C365:CND) | |
| \triangle 59 | 1-751-529-11 | CORD, POWER (UK) | | * 71 | 4-971-532-11 | PANEL, BACK (C265:CND) | |
| 60 | 4-957-293-11 | SPRING (RACK RELEASE) | | * 71 | 4-971-532-21 | PANEL, BACK (C365:G) | |
| 61 | 4-957-291-11 | LEVER (RACK RELEASE) | | * 71 | 4-971-532-31 | PANEL, BACK (C265:G) | |
| 62 | 4-957-868-11 | SCREW (+PTPHW 2.6X20) | | * 71 | 4-971-532-41 | PANEL, BACK (made in CHINA) (C265:US) | |
| 63 | X-4924-457-1 | ROLLER ASSY | | * 72 | 4-949-235-01 | HOOK | |
| 64 | 4-934-376-01 | SHAFT (ROLLER) | | * 73 | 4-951-619-01 | CUSHION (A) | |
| 65 | 4-957-292-11 | SLIDER (RACK) | | 74 | X-4944-129-1 | BRACKET (ROLLER D) ASSY | |
| 66 | 4-957-294-11 | SPRING (D. T), TENSION | | 75 | 1-751-052-11 | WIRE (FLAT TYPE) (6 CORE) | |
| * 67 | 4-957-298-01 | TABLE (A), DISK | | * 76 | 1-647-362-11 | SENSOR BOARD | |
| \triangle 68 | 1-569-007-11 | ADAPTER, CONVERSION 2P (C365:E) | | M802 | A-4660-525-A | MOTOR ASSY, ROTARY (TABLE) | |

5-3. CHASSIS SECTION

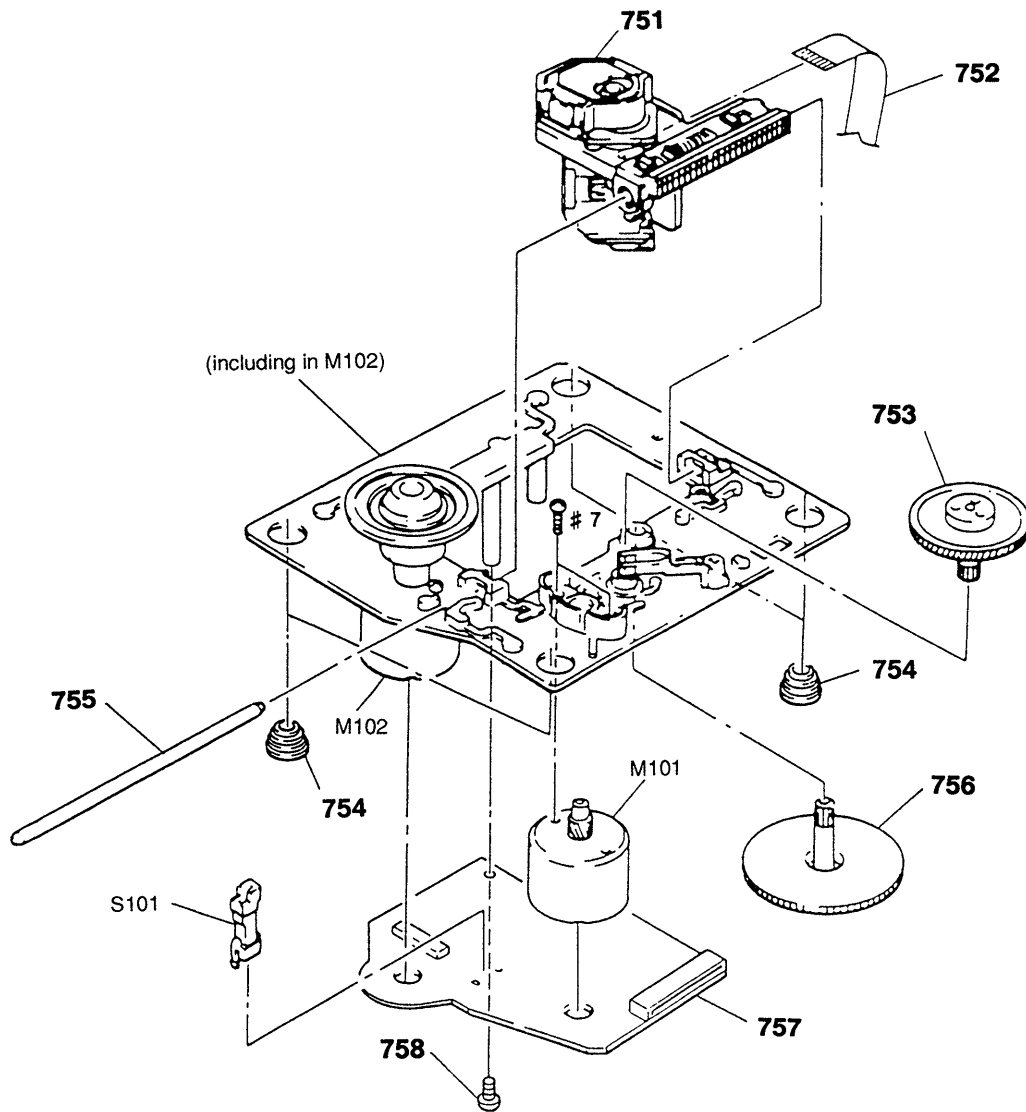


The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

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

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|--------------------------|--------|------------------|--------------|--|--------|
| 101 | 4-957-283-11 | WASHER (5), STOPPER | | * 118 | 1-647-363-11 | LOADING MOTOR BOARD | |
| 102 | 4-957-288-01 | GEAR (MAIN) | | 119 | X-4941-529-1 | PULLEY ASSY | |
| 103 | 4-957-287-01 | GEAR (REV) | | 120 | 4-944-490-01 | BELT (TIMING) | |
| 104 | 4-957-286-01 | GEAR (U/D) | | * 121 | 4-957-556-11 | SHEET, INSULATING (EXCEPT US, CND) | |
| 105 | 1-466-996-11 | ENCODER, ROTARY | | * 122 | 4-957-555-11 | SHEET, INSULATING (EXCEPT US, CND) | |
| 106 | X-4944-127-1 | BRACKET (GEAR) ASSY | | 123 | 3-531-576-11 | RIVET (EXCEPT US, CND) | |
| 107 | 4-933-134-01 | SCREW (+PTPWH M2.6X6) | | * 124 | A-4673-265-A | MAIN BOARD, COMPLETE (C365:E) | |
| 108 | 4-948-503-01 | SPRING (BU), COMPRESSION | | * 124 | A-4673-266-A | MAIN BOARD, COMPLETE (C265:AEP, UK, G, AUS/C365:AEP, UK, G, SP, MY, AUS) | |
| * 109 | 1-648-409-11 | PC BOARD, FLEXIBLE | | * 124 | A-4673-386-A | MAIN BOARD, COMPLETE (US, CND) | |
| * 110 | 4-957-289-12 | HOLDER (BU) | | * 125 | 1-573-047-11 | PIN, CONNECTOR (PC BOARD) 2P | |
| * 111 | 1-452-538-11 | MAGNET | | M801 | A-4353-974-A | MOTOR ASSY, LOADING | |
| 112 | 4-957-281-11 | SPRING (LOCK LEVER) | | \triangle S201 | 1-572-675-11 | SWITCH, POWER VOLTAGE CHANGE (C365:E) | |
| 113 | 4-957-279-11 | LEVER, LOCK | | \triangle T201 | 1-423-872-11 | TRANSFORMER, POWER (US, CND) | |
| 114 | 4-957-303-01 | GEAR (LOADING C) | | \triangle T201 | 1-423-992-11 | TRANSFORMER, POWER (C265:AEP, UK, G, AUS/C365:AEP, UK, G, SP, MY, AUS) | |
| 115 | 4-934-375-11 | GEAR (LOADING B) | | \triangle T201 | 1-423-993-11 | TRANSFORMER, POWER (C365:E) | |
| 116 | 4-957-285-11 | LEVER, SET | | | | | |
| 117 | 4-962-087-01 | SPRING (S), TENSION | | | | | |

**5-4. BASE UNIT SECTION
(BU-5BD13)**



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

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

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|-----------------|--------------|---------------------------|--------|----------|--------------|-------------------------------------|--------|
| \triangle 751 | 8-848-144-11 | OPTICAL PICK-UP KSS-240A | | 757 | A-4649-890-A | BD BOARD, COMPLETE | |
| 752 | 1-575-001-11 | WIRE, FLAT TYPE (12 CORE) | | * 758 | 4-951-620-01 | SCREW (2.6X8), +BVTP | |
| 753 | 4-917-567-21 | GEAR (M) | | M101 | X-4917-504-1 | MOTOR ASSY (SLED) | |
| 754 | 4-951-940-01 | INSULATOR (BU) | | M102 | X-4917-523-4 | BASE (OUTSERT) ASSY (SPINDLE MOTOR) | |
| 755 | 4-917-565-01 | SHAFT, SLED | | S101 | 1-572-085-11 | SWITCH, LEAF (LIMIT) | |
| 756 | 4-917-564-01 | GEAR (P), FLATNESS | | | | | |

SECTION 6 ELECTRICAL PARTS LIST

| | |
|---------------|-----------|
| 10 KEY | BD |
|---------------|-----------|

NOTE:

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

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

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

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Abbreviation
 CND : Canadian model
 G : German model
 SP : Singapore model
 MY : Malaysia model
 AUS : Australian model
- RESISTORS
 All resistors are in ohms
 METAL: Metal-film resistor
 METAL OXIDE: Metal Oxide-film resistor
 F : nonflammable
- SEMICONDUCTORS
 In each case, u: μ , for example:
 uA...: μ A..., uPA...: μ PA..., uPB...: μ PB...,
 uPC...: μ PC..., uPD...: μ PD...
- CAPACITORS
 uF : μ F
- COILS
 uH : μ H
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|---------|--------------|----------------------------------|----------------|---------------|--------------------|--------------------------|------------------|
| * | 1-647-543-11 | 10 KEY BOARD ***** | | S767 | 1-554-303-21 | SWITCH, TACTILE (TIME) | |
| | | < CONNECTOR > | | S768 | 1-554-303-21 | SWITCH, TACTILE (REPEAT) | |
| CN751 | 1-750-228-11 | CONNECTOR, FFC/FPC 10P | | ***** | | | |
| | | < RESISTOR > | | A-4649-890-A | BD BOARD, COMPLETE | ***** | |
| R751 | 1-249-415-11 | CARBON | 680 5% 1/4W F | < CAPACITOR > | | | |
| R752 | 1-249-417-11 | CARBON | 1K 5% 1/4W F | C101 | 1-163-005-11 | CERAMIC CHIP | 470PF 10% 50V |
| R753 | 1-249-419-11 | CARBON | 1.5K 5% 1/4W F | C102 | 1-163-038-91 | CERAMIC CHIP | 0.1uF 25V |
| R754 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W F | C103 | 1-163-005-11 | CERAMIC CHIP | 470PF 10% 50V |
| R755 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W F | C105 | 1-135-155-21 | TANTALUM CHIP | 4.7uF 10% 16V |
| R756 | 1-249-427-11 | CARBON | 6.8K 5% 1/4W F | C106 | 1-164-346-11 | CERAMIC CHIP | 1uF 16V |
| R757 | 1-249-431-11 | CARBON | 15K 5% 1/4W F | C107 | 1-164-505-11 | CERAMIC CHIP | 2.2uF 16V |
| R758 | 1-249-415-11 | CARBON | 680 5% 1/4W F | C108 | 1-163-035-00 | CERAMIC CHIP | 0.047uF 50V |
| R759 | 1-249-417-11 | CARBON | 1K 5% 1/4W F | C109 | 1-163-011-11 | CERAMIC CHIP | 0.0015uF 10% 50V |
| R760 | 1-249-419-11 | CARBON | 1.5K 5% 1/4W F | C110 | 1-163-017-00 | CERAMIC CHIP | 0.0047uF 5% 50V |
| R761 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W F | C111 | 1-163-251-11 | CERAMIC CHIP | 100PF 5% 50V |
| R762 | 1-249-423-11 | CARBON | 3.3K 5% 1/4W F | C112 | 1-163-038-91 | CERAMIC CHIP | 0.1uF 25V |
| R763 | 1-249-427-11 | CARBON | 6.8K 5% 1/4W F | C113 | 1-163-038-91 | CERAMIC CHIP | 0.1uF 25V |
| R764 | 1-249-431-11 | CARBON | 15K 5% 1/4W F | C123 | 1-164-232-11 | CERAMIC CHIP | 0.01uF 50V |
| R765 | 1-249-415-11 | CARBON | 680 5% 1/4W F | C124 | 1-164-005-11 | CERAMIC CHIP | 0.47uF 25V |
| R766 | 1-249-417-11 | CARBON | 1K 5% 1/4W F | C131 | 1-163-038-91 | CERAMIC CHIP | 0.1uF 25V |
| | | < SWITCH > | | C132 | 1-163-038-91 | CERAMIC CHIP | 0.1uF 25V |
| S751 | 1-554-303-21 | SWITCH, TACTILE (PEAK SEARCH) | | C133 | 1-163-038-91 | CERAMIC CHIP | 0.1uF 25V |
| S752 | 1-554-303-21 | SWITCH, TACTILE (1) | | C153 | 1-163-038-91 | CERAMIC CHIP | 0.1uF 25V |
| S753 | 1-554-303-21 | SWITCH, TACTILE (2) | | C159 | 1-163-019-00 | CERAMIC CHIP | 0.0068uF 10% 50V |
| S754 | 1-554-303-21 | SWITCH, TACTILE (3) | | C161 | 1-163-038-91 | CERAMIC CHIP | 0.1uF 25V |
| S755 | 1-554-303-21 | SWITCH, TACTILE (4) | | C177 | 1-163-038-91 | CERAMIC CHIP | 0.1uF 25V |
| S756 | 1-554-303-21 | SWITCH, TACTILE (5) | | C178 | 1-163-038-91 | CERAMIC CHIP | 0.1uF 25V |
| S757 | 1-554-303-21 | SWITCH, TACTILE (EDIT/TIME FADE) | | C179 | 1-163-038-91 | CERAMIC CHIP | 0.1uF 25V |
| S758 | 1-554-303-21 | SWITCH, TACTILE (CHECK) | | C181 | 1-163-038-91 | CERAMIC CHIP | 0.1uF 25V |
| S759 | 1-554-303-21 | SWITCH, TACTILE (FADER) | | C182 | 1-163-038-91 | CERAMIC CHIP | 0.1uF 25V |
| S760 | 1-554-303-21 | SWITCH, TACTILE (6) | | C183 | 1-135-156-21 | TANTALUM CHIP | 6.8uF 10% 10V |
| S761 | 1-554-303-21 | SWITCH, TACTILE (7) | | C184 | 1-135-156-21 | TANTALUM CHIP | 6.8uF 10% 10V |
| S762 | 1-554-303-21 | SWITCH, TACTILE (8) | | C185 | 1-135-156-21 | TANTALUM CHIP | 6.8uF 10% 10V |
| S763 | 1-554-303-21 | SWITCH, TACTILE (9) | | C186 | 1-163-038-91 | CERAMIC CHIP | 0.1uF 25V |
| S764 | 1-554-303-21 | SWITCH, TACTILE (10) | | C187 | 1-163-038-91 | CERAMIC CHIP | 0.1uF 25V |
| S765 | 1-554-303-21 | SWITCH, TACTILE (>10) | | C188 | 1-163-038-91 | CERAMIC CHIP | 0.1uF 25V |
| S766 | 1-554-303-21 | SWITCH, TACTILE (CLEAR) | | C191 | 1-163-091-00 | CERAMIC CHIP | 8PF 50V |
| | | | | C192 | 1-163-091-00 | CERAMIC CHIP | 8PF 50V |
| | | | | C193 | 1-163-125-00 | CERAMIC CHIP | 220PF 5% 50V |

BD **DISPLAY**

| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|---------|--------------|-------------------------------------|--------|----------------|---------------|------------------------------|--------|
| C194 | 1-163-125-00 | CERAMIC CHIP 220PF 5% | 50V | R181 | 1-216-053-00 | METAL CHIP 1.5K 5% | 1/10W |
| C195 | 1-163-038-91 | CERAMIC CHIP 0.1uF | 25V | R182 | 1-216-080-00 | METAL CHIP 20K 5% | 1/10W |
| C196 | 1-163-005-11 | CERAMIC CHIP 470PF 10% | 50V | R183 | 1-216-080-00 | METAL CHIP 20K 5% | 1/10W |
| C197 | 1-163-038-91 | CERAMIC CHIP 0.1uF | 25V | R184 | 1-216-080-00 | METAL CHIP 20K 5% | 1/10W |
| | | < CONNECTOR > | | R185 | 1-216-080-00 | METAL CHIP 20K 5% | 1/10W |
| * CN101 | 1-580-875-11 | SOCKET, CONNECTOR (SMT) 26P | | R187 | 1-216-035-00 | METAL CHIP 270 5% | 1/10W |
| CN102 | 1-580-866-11 | SOCKET, CONNECTOR (SMT) 12P | | R188 | 1-216-121-00 | METAL CHIP 1M 5% | 1/10W |
| | | < IC > | | R189 | 1-414-234-11 | INDUCTOR, FERRITE BEAD | |
| IC101 | 8-752-351-94 | IC CXD2515Q | | | | < SWITCH > | |
| IC102 | 8-759-176-09 | IC BA6392FP | | S101 | 1-572-085-11 | SWITCH, LEAF (LIMIT) | |
| IC103 | 8-752-367-61 | IC CXD2565AM | | | | < VIBRATOR > | |
| | | < COIL > | | X101 | 1-579-904-11 | VIBRATOR, CRYSTAL (33.8MHz) | |
| L101 | 1-414-234-11 | INDUCTOR, FERRITE BEAD | | ***** | | | |
| L102 | 1-414-234-11 | INDUCTOR, FERRITE BEAD | | * 1-647-541-11 | DISPLAY BOARD | | |
| L103 | 1-414-234-11 | INDUCTOR, FERRITE BEAD | | | ***** | | |
| L104 | 1-216-001-00 | METAL CHIP 10 5% | 1/10W | | < CONNECTOR > | | |
| L105 | 1-216-295-91 | CONDCTOR, CHIP (2012) | | CN710 | 1-750-237-11 | CONNECTOR, FFC/FPC 33P | |
| L106 | 1-414-234-11 | INDUCTOR, FERRITE BEAD | | | | < FLUORESCENT INDICATOR > | |
| L107 | 1-216-295-91 | CONDCTOR, CHIP (2012) | | FL711 | 1-517-164-11 | INDICATOR TUBE, FLUORESCENT | |
| L108 | 1-216-295-91 | CONDCTOR, CHIP (2012) | | | | < RESISTOR > | |
| | | < MOTOR > | | R711 | 1-249-415-11 | CARBON 680 5% | 1/4W F |
| M101 | X-4917-504-1 | MOTOR ASSY (SLED) | | R712 | 1-249-417-11 | CARBON 1K 5% | 1/4W F |
| M102 | X-4917-523-4 | BASE (OUTSERT) ASSY (SPINDLE MOTOR) | | R713 | 1-249-419-11 | CARBON 1.5K 5% | 1/4W F |
| | | < RESISTOR > | | R714 | 1-249-421-11 | CARBON 2.2K 5% | 1/4W F |
| R101 | 1-216-077-00 | METAL CHIP 15K 5% | 1/10W | R715 | 1-249-423-11 | CARBON 3.3K 5% | 1/4W F |
| R102 | 1-216-097-00 | METAL CHIP 100K 5% | 1/10W | R716 | 1-249-427-11 | CARBON 6.8K 5% | 1/4W F |
| R103 | 1-216-077-00 | METAL CHIP 15K 5% | 1/10W | R717 | 1-249-431-11 | CARBON 15K 5% | 1/4W F |
| R104 | 1-216-085-00 | METAL CHIP 33K 5% | 1/10W | R718 | 1-249-415-11 | CARBON 680 5% | 1/4W F |
| R105 | 1-216-065-00 | METAL CHIP 4.7K 5% | 1/10W | | | < SWITCH > | |
| R106 | 1-216-061-00 | METAL CHIP 3.3K 5% | 1/10W | S711 | 1-554-303-21 | SWITCH, TACTILE (EX-CHANGE) | |
| R107 | 1-216-061-00 | METAL CHIP 3.3K 5% | 1/10W | S712 | 1-554-303-21 | SWITCH, TACTILE (■) | |
| R108 | 1-216-073-00 | METAL CHIP 10K 5% | 1/10W | S713 | 1-554-303-21 | SWITCH, TACTILE (▨) | |
| R109 | 1-216-121-00 | METAL CHIP 1M 5% | 1/10W | S714 | 1-554-303-21 | SWITCH, TACTILE (▷▷) | |
| R110 | 1-216-025-00 | METAL CHIP 100 5% | 1/10W | S715 | 1-554-303-21 | SWITCH, TACTILE (◀◀) | |
| R112 | 1-216-049-00 | METAL CHIP 1K 5% | 1/10W | S716 | 1-554-303-21 | SWITCH, TACTILE (▶▶) | |
| R122 | 1-216-295-91 | CONDCTOR, CHIP (2012) | | S717 | 1-554-303-21 | SWITCH, TACTILE (DISC SKIP) | |
| R123 | 1-216-073-00 | METAL CHIP 10K 5% | 1/10W | S718 | 1-554-303-21 | SWITCH, TACTILE (OPEN/CLOSE) | |
| R124 | 1-216-097-00 | METAL CHIP 100K 5% | 1/10W | S719 | 1-554-303-21 | SWITCH, TACTILE (▷) | |
| R125 | 1-216-049-00 | METAL CHIP 1K 5% | 1/10W | S720 | 1-554-303-21 | SWITCH, TACTILE (◀◀) | |
| R126 | 1-216-049-00 | METAL CHIP 1K 5% | 1/10W | S730 | 1-572-714-11 | SWITCH, PUSH (POWER) | |
| R127 | 1-216-049-00 | METAL CHIP 1K 5% | 1/10W | S731 | 1-554-303-21 | SWITCH, TACTILE (DISC 1) | |
| R131 | 1-216-037-00 | METAL CHIP 330 5% | 1/10W | S732 | 1-554-303-21 | SWITCH, TACTILE (DISC 2) | |
| R158 | 1-216-111-00 | METAL CHIP 390K 5% | 1/10W | | | | |
| R159 | 1-216-101-00 | METAL CHIP 150K 5% | 1/10W | | | | |

DISPLAY

LOADING MOTOR

MAIN

| Ref.No. | Part No. | Description | Remark |
|---------|--------------|--|---------|
| S733 | 1-554-303-21 | SWITCH, TACTILE (DISC 3) | |
| S734 | 1-554-303-21 | SWITCH, TACTILE (DISC 4) | |
| S735 | 1-554-303-21 | SWITCH, TACTILE (DISC 5) | |
| S736 | 1-554-303-21 | SWITCH, TACTILE (DISC CHECK) | |
| S737 | 1-554-303-21 | SWITCH, TACTILE (PROGRAM) | |
| S738 | 1-554-303-21 | SWITCH, TACTILE (CONTINUE) | |
| S739 | 1-554-303-21 | SWITCH, TACTILE (SHUFFLE) | |
| ***** | | | |
| * | 1-647-363-11 | LOADING MOTOR BOARD ***** < MOTOR > | |
| M801 | A-4660-525-A | MOTOR ASSY, LOADING | |
| ***** | | | |
| * | A-4673-265-A | MAIN BOARD, COMPLETE (C365:E) ***** | |
| * | A-4673-266-A | MAIN BOARD, COMPLETE ***** (C265:AEP, UK, G, AUS/C365:AEP, UK, G, SP, MY, AUS) | |
| * | A-4673-386-A | MAIN BOARD, COMPLETE ***** (C265:US, CND/C365:US, CND) | |
| | 7-685-871-01 | SCREW +BVTT 3X6 (S) < CAPACITOR > | |
| C1 | 1-164-159-11 | CERAMIC 0.1uF | 50V |
| C2 | 1-164-159-11 | CERAMIC 0.1uF | 50V |
| C201 | 1-128-489-11 | ELECT 3300uF | 20% 16V |
| C202 | 1-124-360-00 | ELECT 1000uF | 20% 16V |
| C203 | 1-124-910-11 | ELECT 47uF | 20% 50V |
| C204 | 1-126-163-11 | ELECT 4.7uF | 20% 50V |
| C205 | 1-126-163-11 | ELECT 4.7uF | 20% 50V |
| C206 | 1-124-997-11 | ELECT 470uF | 20% 10V |
| C207 | 1-126-024-11 | ELECT 220uF | 20% 16V |
| C208 | 1-126-059-11 | ELECT 10uF | 20% 50V |
| C209 | 1-124-572-11 | ELECT 100uF | 20% 63V |
| C210 | 1-161-494-00 | CERAMIC 0.022uF | 25V |
| C401 | 1-126-022-11 | ELECT 47uF | 20% 16V |
| C402 | 1-161-494-00 | CERAMIC 0.022uF | 25V |
| C403 | 1-161-494-00 | CERAMIC 0.022uF | 25V |
| C404 | 1-162-306-11 | CERAMIC 0.01uF | 20% 16V |
| C405 | 1-162-306-11 | CERAMIC 0.01uF | 20% 16V |
| C451 | 1-126-012-11 | ELECT 470uF | 20% 16V |
| C501 | 1-126-012-11 | ELECT 470uF | 20% 16V |
| C502 | 1-126-012-11 | ELECT 470uF | 20% 16V |
| C503 | 1-124-994-11 | ELECT 100uF | 20% 10V |

| Ref.No. | Part No. | Description | Remark |
|---------------|--------------|--|---------|
| C504 | 1-124-994-11 | ELECT 100uF | 20% 10V |
| C505 | 1-124-997-11 | ELECT 470uF | 20% 10V |
| C506 | 1-161-494-00 | CERAMIC 0.022uF | 25V |
| C507 | 1-126-022-11 | ELECT 47uF | 20% 16V |
| C508 | 1-126-796-11 | ELECT 22uF | 20% 25V |
| C509 | 1-126-786-11 | ELECT 47uF | 20% 16V |
| C521 | 1-162-282-31 | CERAMIC 100PF | 10% 50V |
| C522 | 1-162-282-31 | CERAMIC 100PF | 10% 50V |
| C523 | 1-137-433-11 | FILM 0.0012uF | 5% 50V |
| C524 | 1-124-994-11 | ELECT 100uF | 20% 10V |
| C525 | 1-137-368-11 | FILM 0.0047uF | 5% 50V |
| C531 | 1-124-994-11 | ELECT 100uF | 20% 10V |
| C532 | 1-130-467-00 | MYLAR 470PF | 5% 50V |
| C571 | 1-162-282-31 | CERAMIC 100PF | 10% 50V |
| C572 | 1-162-282-31 | CERAMIC 100PF | 10% 50V |
| C573 | 1-137-433-11 | FILM 0.0012uF | 5% 50V |
| C574 | 1-124-994-11 | ELECT 100uF | 20% 10V |
| C575 | 1-137-368-11 | FILM 0.0047uF | 5% 50V |
| C581 | 1-124-994-11 | ELECT 100uF | 20% 10V |
| C582 | 1-130-467-00 | MYLAR 470PF | 5% 50V |
| < CONNECTOR > | | | |
| CN301 | 1-750-236-11 | CONNECTOR, FFC/FPC 24P | |
| CN401 | 1-750-237-11 | CONNECTOR, FFC/FPC 33P | |
| CN402 | 1-750-228-11 | CONNECTOR, FFC/FPC 10P | |
| * CN403 | 1-695-006-11 | PIN, CONNECTOR (PC BOARD) 6P | |
| CN404 | 1-750-223-11 | CONNECTOR, FFC/FPC 6P | |
| < DIODE > | | | |
| D201 | 8-719-024-99 | DIODE 11ES2-NTA2B | |
| D202 | 8-719-024-99 | DIODE 11ES2-NTA2B | |
| D203 | 8-719-024-99 | DIODE 11ES2-NTA2B | |
| D204 | 8-719-024-99 | DIODE 11ES2-NTA2B | |
| D205 | 8-719-024-99 | DIODE 11ES2-NTA2B | |
| D206 | 8-719-110-13 | DIODE RD9.1ESB2 | |
| D207 | 8-719-024-99 | DIODE 11ES2-NTA2B (C265:AEP, UK, G, AUS/C365:AEP, UK, G, SP, MY, AUS) | |
| D208 | 8-719-024-99 | DIODE 11ES2-NTA2B (C265:AEP, UK, G, AUS/C365:AEP, UK, G, SP, MY, AUS) | |
| D451 | 8-719-109-92 | DIODE RD6.2ES-B1 | |
| D501 | 8-719-987-63 | DIODE 1N4148M | |
| < IC > | | | |
| IC201 | 8-759-061-65 | IC LA5602 | |
| IC202 | 8-759-605-00 | IC M5F78M07L | |
| IC203 | 8-759-633-42 | IC M5293L | |
| IC401 | 8-752-861-78 | IC CXP82316-050Q | |
| IC451 | 8-759-172-31 | IC BA6191 | |
| IC501 | 8-759-175-88 | IC LA9215-ST | |

MAIN

POWER SW

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-------------------------|--------|----------|--------------|--|--------|
| | | < JACK > | | | | | |
| J501 | 1-750-679-21 | JACK, PIN 2P (LINE OUT) | | R526 | 1-249-419-11 | CARBON 1.5K 5% 1/4W F | |
| | | < COIL > | | R527 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| L501 | 1-412-473-21 | INDUCTOR 0uH | | R531 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| | | < TRANSISTOR > | | R532 | 1-249-417-11 | CARBON 1K 5% 1/4W F | |
| Q201 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | R571 | 1-247-852-11 | CARBON 7.5K 5% 1/4W | |
| Q401 | 8-729-900-89 | TRANSISTOR DTC144ES | | R572 | 1-247-864-11 | CARBON 24K 5% 1/4W | |
| Q402 | 8-729-230-45 | TRANSISTOR 2SC2458-YGR | | R573 | 1-247-852-11 | CARBON 7.5K 5% 1/4W | |
| Q501 | 8-729-900-89 | TRANSISTOR DTC144ES | | R574 | 1-247-864-11 | CARBON 24K 5% 1/4W | |
| Q502 | 8-729-422-57 | TRANSISTOR UN4111 | | R575 | 1-249-419-11 | CARBON 1.5K 5% 1/4W F | |
| Q503 | 8-729-422-57 | TRANSISTOR UN4111 | | R576 | 1-249-419-11 | CARBON 1.5K 5% 1/4W F | |
| Q504 | 8-729-900-80 | TRANSISTOR DTC114ES | | R577 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| | | < RESISTOR > | | R581 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R201 | 1-249-429-11 | CARBON 10K 5% 1/4W | | R582 | 1-249-417-11 | CARBON 1K 5% 1/4W F | |
| R202 | 1-249-438-11 | CARBON 56K 5% 1/4W | | | | < SWITCH > | |
| R203 | 1-249-435-11 | CARBON 33K 5% 1/4W | | △S201 | 1-572-675-11 | SWITCH, POWER VOLTAGE CHANGE (C365:E) | |
| R401 | 1-249-427-11 | CARBON 6.8K 5% 1/4W F | | | | < TRANSFORMER > | |
| R402 | 1-249-427-11 | CARBON 6.8K 5% 1/4W F | | △T201 | 1-423-872-11 | TRANSFORMER, POWER (US, CND) | |
| R403 | 1-249-427-11 | CARBON 6.8K 5% 1/4W F | | △T201 | 1-423-992-11 | TRANSFORMER, POWER (C265:AEP, UK, G, AUS/C365:AEP, UK, G, SP, MY, AUS) | |
| R404 | 1-249-427-11 | CARBON 6.8K 5% 1/4W F | | △T201 | 1-423-993-11 | TRANSFORMER, POWER (C365:E) | |
| R405 | 1-249-427-11 | CARBON 6.8K 5% 1/4W F | | | | < VIBRATOR > | |
| R407 | 1-249-425-11 | CARBON 4.7K 5% 1/4W F | | X401 | 1-579-175-11 | VIBRATOR, CERAMIC (10MHz) | |
| R408 | 1-249-425-11 | CARBON 4.7K 5% 1/4W F | | | | ***** | |
| R409 | 1-249-425-11 | CARBON 4.7K 5% 1/4W F | | * | 1-647-542-11 | POWER SW BOARD ***** | |
| R410 | 1-249-429-11 | CARBON 10K 5% 1/4W | | | | < CAPACITOR > | |
| R411 | 1-249-429-11 | CARBON 10K 5% 1/4W | | C731 | 1-161-494-00 | CERAMIC 0.022uF 25V | |
| R412 | 1-249-441-11 | CARBON 100K 5% 1/4W | | | | < IC > | |
| R413 | 1-249-429-11 | CARBON 10K 5% 1/4W | | IC731 | 8-741-810-59 | IC SBX1810-59 | |
| R414 | 1-249-430-11 | CARBON 12K 5% 1/4W | | | | < RESISTOR > | |
| R415 | 1-249-417-11 | CARBON 1K 5% 1/4W F | | R731 | 1-249-415-11 | CARBON 680 5% 1/4W F | |
| R421 | 1-249-428-11 | CARBON 8.2K 5% 1/4W F | | R732 | 1-249-417-11 | CARBON 1K 5% 1/4W F | |
| R451 | 1-247-876-11 | CARBON 75K 5% 1/4W | | R733 | 1-249-419-11 | CARBON 1.5K 5% 1/4W F | |
| R452 | 1-247-876-11 | CARBON 75K 5% 1/4W | | R734 | 1-249-421-11 | CARBON 2.2K 5% 1/4W F | |
| R453 | 1-247-876-11 | CARBON 75K 5% 1/4W | | R735 | 1-249-423-11 | CARBON 3.3K 5% 1/4W F | |
| R454 | 1-247-876-11 | CARBON 75K 5% 1/4W | | R736 | 1-249-427-11 | CARBON 6.8K 5% 1/4W F | |
| R456 | 1-249-425-11 | CARBON 4.7K 5% 1/4W F | | R737 | 1-249-419-11 | CARBON 1.5K 5% 1/4W F | |
| R457 | 1-247-840-00 | CARBON 2.4K 5% 1/4W | | | | ***** | |
| R458 | 1-247-828-11 | CARBON 750 5% 1/4W | | | | | |
| R459 | 1-249-418-11 | CARBON 1.2K 5% 1/4W F | | | | | |
| R501 | 1-249-422-11 | CARBON 2.7K 5% 1/4W F | | | | | |
| R521 | 1-247-852-11 | CARBON 7.5K 5% 1/4W | | | | | |
| R522 | 1-247-864-11 | CARBON 24K 5% 1/4W | | | | | |
| R523 | 1-247-852-11 | CARBON 7.5K 5% 1/4W | | | | | |
| R524 | 1-247-864-11 | CARBON 24K 5% 1/4W | | | | | |
| R525 | 1-249-419-11 | CARBON 1.5K 5% 1/4W F | | | | | |

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

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|------------------------|--------------|---|--------|--|--------------|-------------------------------------|--------|
| * | 1-647-362-11 | SENSOR BOARD ***** | | △T201 | 1-423-993-11 | TRANSFORMER, POWER (C365:E) | |
| | | < CONNECTOR > | | ***** | | | |
| CN801 | 1-573-383-11 | PIN, CONNECTOR (PC BOARD) 2P | | ACCESSORIES & PACKING MATERIALS ***** | | | |
| CN802 | 1-750-243-11 | SOCKET, CONNECTOR 6P | | 1-467-123-11 REMOTE COMMANDER (RM-D335) (C365) | | | |
| | | < DIODE > | | 1-558-271-11 CORD, CONNECTION (AUDIO 108cm) | | | |
| D801 | 8-749-924-18 | DIODE PHOTO INTERRUPTER RPI-1391 | | 3-759-798-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) | | | |
| D802 | 8-749-924-30 | DIODE PHOTO REFLECTOR GP2S28 | | (C265:CND, AEP, UK/C365:CND, AEP, UK, E, MY, SP) | | | |
| | | < RESISTOR > | | 3-759-798-21 MANUAL, INSTRUCTION (ENGLISH) (US, AUS) | | | |
| R801 | 1-249-416-11 | CARBON 820 5% 1/4W F | | 3-759-798-41 MANUAL, INSTRUCTION (GERMAN, ITALIAN, DUTCH, PORTUGUESE) | | | |
| R802 | 1-249-406-11 | CARBON 120 5% 1/4W F | | (C265:AEP, G/C365:AEP, G, MY, SP) | | | |
| ***** | | | | 3-759-798-91 MANUAL, INSTRUCTION (DANISH, FINNISH, SWEDISH) (AEP) | | | |
| * | 1-650-082-11 | TABLE MOTOR BOARD ***** | | * | 4-949-235-01 | HOOK | |
| | | < MOTOR > | | * | 4-959-044-01 | COVER, BATTERY (for RM-D335) (C365) | |
| M802 | A-4353-974-A | MOTOR ASSY, ROTARY (TABLE) | | * | 4-965-249-01 | CUSHION (FRONT) | |
| ***** | | | | * | 4-965-250-01 | CUSHION (REAR) | |
| MISCELLANEOUS ***** | | | | ***** | | | |
| 7 | 1-751-053-11 | WIRE (FLAT TYPE) (33 CORE) | | HARDWARE LIST ***** | | | |
| 9 | 1-751-054-11 | WIRE (FLAT TYPE) (10 CORE) | | #1 | 7-685-647-79 | SCREW +BVTP 3X10 TYPE2 N-S | |
| △59 | 1-575-042-21 | CORD, POWER (US, CND) | | #2 | 7-682-548-04 | SCREW +BVIT 3X8 (S) | |
| △59 | 1-575-651-21 | CORD, POWER (C265:AEP, G/C365:AEP, G, MY, SP) | | #3 | 7-685-648-79 | SCREW (M3X12), TAPPING | |
| △59 | 1-696-027-11 | CORD, POWER (C365:E) | | #4 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S | |
| △59 | 1-696-845-11 | CORD, POWER (AUS) | | #5 | 7-621-772-00 | SCREW +B 2X3 | |
| △59 | 1-751-529-11 | CORD, POWER (UK) | | #6 | 7-685-134-19 | SCREW +PTPHW 2.6X8 (TYPE2) | |
| △68 | 1-569-007-11 | ADAPTER, CONVERSION 2P (C365:E) | | #7 | 7-621-255-15 | SCREW +P 2X3 | |
| 75 | 1-751-052-11 | WIRE (FLAT TYPE) (6 CORE) | | #8 | 7-621-849-00 | SCREW, TAPPING | |
| 105 | 1-466-996-11 | ENCODER, ROTARY | | #9 | 7-685-871-01 | SCREW +BVIT 3X6 (S) | |
| * 109 | 1-648-409-11 | PC BOARD, FLEXIBLE | | | | | |
| * 111 | 1-452-538-11 | MAGNET | | | | | |
| * 125 | 1-573-047-11 | PIN, CONNECTOR (PC BOARD) 2P | | | | | |
| △751 | 8-848-144-11 | OPTICAL PICK-UP KSS-240A | | | | | |
| 752 | 1-575-001-11 | WIRE, FLAT TYPE (12 CORE) | | | | | |
| M101 | X-4917-504-1 | MOTOR ASSY (SLED) | | | | | |
| M102 | X-4917-523-4 | BASE (OUTSERT) ASSY (SPINDLE MOTOR) | | | | | |
| M801 | A-4353-974-A | MOTOR ASSY, LOADING | | | | | |
| M802 | A-4660-525-A | MOTOR ASSY, ROTARY (TABLE) | | | | | |
| S101 | 1-572-085-11 | SWITCH, LEAF (LIMIT) | | | | | |
| △S201 | 1-572-675-11 | SWITCH, POWER VOLTAGE CHANGE (C365:E) | | | | | |
| △T201 | 1-423-872-11 | TRANSFORMER, POWER (US, CND) | | | | | |
| △T201 | 1-423-992-11 | TRANSFORMER, POWER (C265:AEP, UK, G, AUS/C365:AEP, UK, G, MY, SP, AUS) | | | | | |

| | |
|---|---|
| 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. |
|---|---|

CDP-C265 / C365

SONY® SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
Australian Model
CDP-C265/C365
E Model
CDP-C365

SUPPLEMENT-1

File this supplement with the service manual.

Subject : 1. SERVICE PARTS CHANGED
2. Addition to the CDP-C365 (Chinese model)
3. BD BOARD Circuit change
4. ELECTRICAL BLOCK CHECKING change (BU-5BD23)

(ENG-95005, ECN-CD500193)

- As for CDP-C365 (Chinese model), refer to CDP-C365 (AEP model).
Refer to the following "Difference Table" for differences.
- The two of base unit BU-5BD13 and BU-5BD23 in the CD section are used for this model.
Refer to this service manual supplement-1 for the BD board of a set used BU-5BD23, and to the service manual is issued previously for the BD board of a set used BU-5BD13.

EXPLODED VIEWS

NOTE:

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

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

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

SERVICE PARTS CHANGED

| Page | FORMER | | | NEW | | |
|------|----------------|-----------------|---------------------|----------------|-----------------|---------------------|
| | <u>Ref.No.</u> | <u>Part No.</u> | <u>Description</u> | <u>Ref.No.</u> | <u>Part No.</u> | <u>Description</u> |
| 29 | * 109 | 1-648-409-11 | PC BOARD, FLEXIBLE | * 109 | 1-655-696-11 | PC BOARD, FLEXIBLE |
| | 115 | 4-934-375-11 | GEAR (LOADING B) | 115 | 4-934-375-01 | GEAR (LOADING B) |
| | M801 | A-4353-974-A | MOTOR ASSY, LOADING | M801 | A-4604-847-A | MOTOR ASSY, LOADING |

Addition to the CDP-C365 (Chinese model) DIFFERENCE TABLE

| Page | CDP-C365 (AEP model) | | | CDP-C365 (Chinese model) | | |
|------|----------------------|-----------------|---|--------------------------|-----------------|--------------------|
| | <u>Ref.No.</u> | <u>Part No.</u> | <u>Description</u> | <u>Ref.No.</u> | <u>Part No.</u> | <u>Description</u> |
| 28 | * 71 | 4-971-080-01 | PANEL, BACK | * 71 | 4-971-532-51 | PANEL, BACK |
| 35 | | 3-759-798-41 | MANUAL, INSTRUCTION (GERMAN, ITALIAN, DUTCH, PORTUGUESE) | | | Not supplied. |
| | * | 4-972-158-01 | INDIVIDUAL CARTON | * | 4-972-157-01 | INDIVIDUAL CARTON |

ELECTRICAL PARTS CHANGED

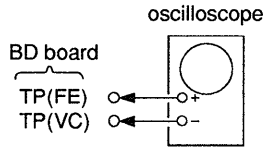
| Page | FORMER | | | NEW | | |
|------|----------------|------------------|--------------------|----------------|------------------|--------------------|
| | <u>Ref.No.</u> | <u>Part No.</u> | <u>Description</u> | <u>Ref.No.</u> | <u>Part No.</u> | <u>Description</u> |
| 33 | | ** MAIN BOARD ** | | | ** MAIN BOARD ** | |
| | IC401 | 8-752-861-78 | IC CXP82316-050Q | IC401 | 8-752-864-88 | IC CXP82316-056Q |

ELECTRICAL BLOCK CHECKING (for BU-5BD23)

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.

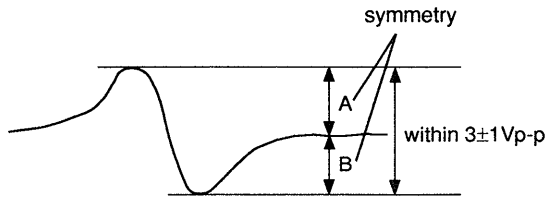
S Curve Check



Procedure :

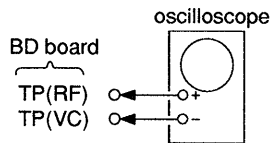
1. Connect oscilloscope to test point TP (FE) on BD board.
2. Connect between test point TP (FEI) and TP (VC) by lead wire.
3. Turned Power switch on.
4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.

S-curve waveform



6. After check, remove the lead wire connected in step 2.
- 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 :

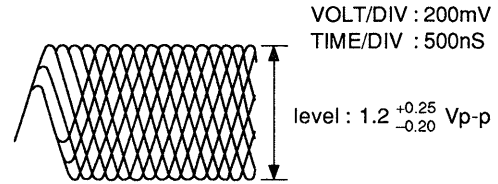
1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turned Power switch on.

3. Put disc (YEDS-18) in to play the number five track.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

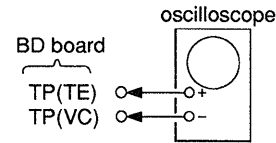
Note :

A clear RF signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.

RF signal waveform



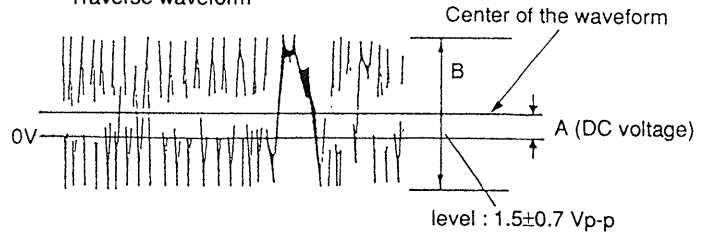
E-F Balance Check



Procedure :

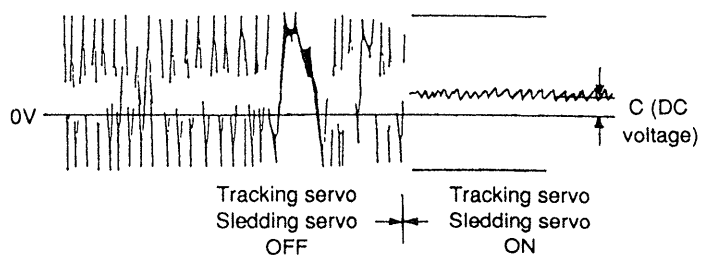
1. Connect test point TP (ADJ) to ground with lead wire.
2. Connect oscilloscope to test point TP (TE) on BD board.
3. Turned Power switch on.
4. Put disc (YEDS-18) in to play the number five track.
5. Press the “3” button. (The tracking servo and the sledding servo are turned OFF.)
6. Check the level B of the oscilloscope’s waveform and the A (DC voltage) of the center of the Traverse waveform. Confirm the following :
A/B x 100 = less than ± 20%.

Traverse waveform



7. Press the “8” button. (The tracking servo and sledding servo are turned ON.) Confirm the C (DC voltage) is almost equal to the A (DC voltage) in step 6.

Traverse waveform

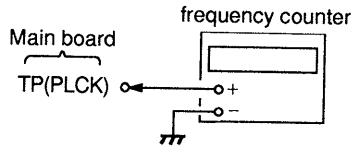


8. Disconnect the laed wire of TP (ADJ) connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

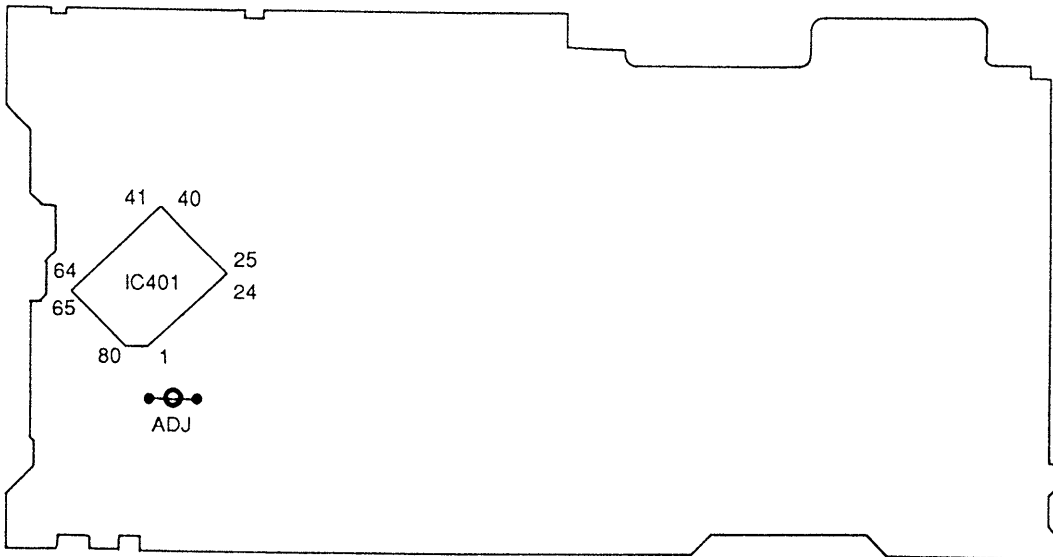
1. Connect frequency counter to test point (PLCK) with lead wire.



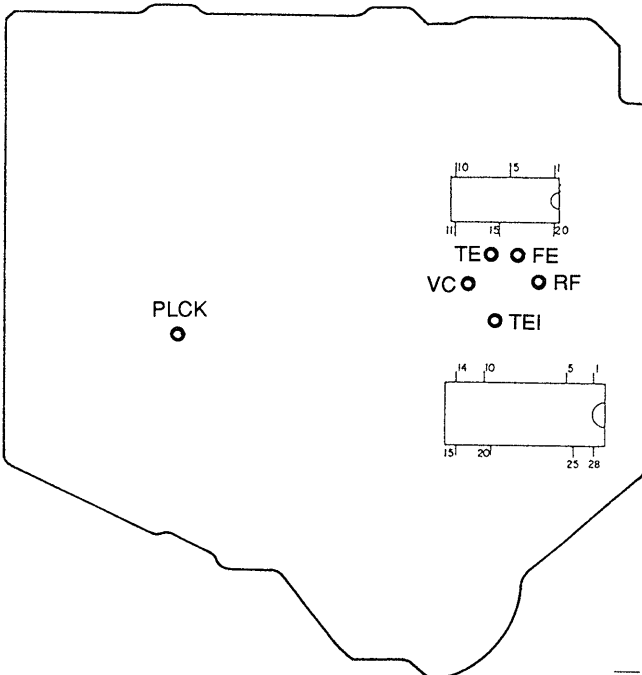
2. Turned Power switch on.
3. Put the disc (YEDS-18) in to play the number five track. Confirm that reading on frequency counter is 4.3218MHz.

Adjustment Location :

[MAIN BOARD] — Conductor Side —



[BD BOARD] — SIDE A —



BU-5BD23 DIFFERENCE TABLE

| Page | BU-5BD13 | | | BU-5BD23 | | |
|------|----------|--------------|---------------------------|----------|--------------|-------------------------------|
| | Ref. No. | Part No. | Description | Ref. No. | Part No. | Description |
| 30 | △751 | 8-848-144-11 | OPTICAL PICK-UP KSS-240A | △751 | 8-848-387-11 | OPTICAL PICK-UP KSS-213BA/S-N |
| | 752 | 1-575-001-11 | WIRE, FLAT TYPE (12 CORE) | 752 | 1-769-069-11 | WIRE (FLAT TYPE) (16 CORE) |
| | 757 | A-4649-890-A | BD BOARD, COMPLETE | 757 | A-4673-515-A | BD BOARD, COMPLETE |

- **Base Unit Change**

As the base unit BU-5BD13 has changed to BU-5BD23, IC401 of the MAIN BOARD has changed.

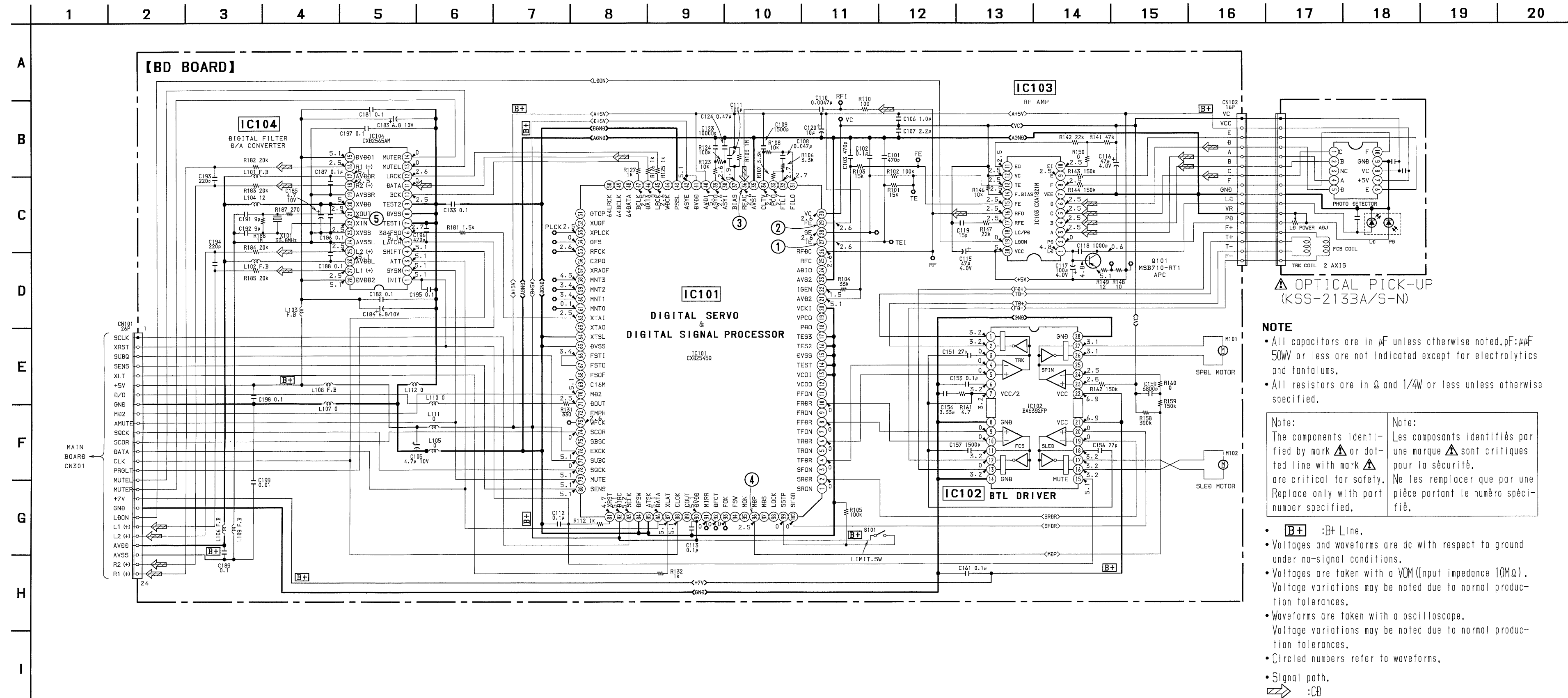
The interchangeability between IC401 and BD BOARD is as below:

| | | MAIN BOARD IC401 | |
|----------------|----------|----------------------------|----------------------------|
| | | FORMER | NEW |
| | | 8-752-861-78 CXP82316-050Q | 8-752-864-88 CXP82316-056Q |
| Base Unit Type | BU-5BD13 | ○ | ○ |
| | BU-5BD23 | × | ○ |

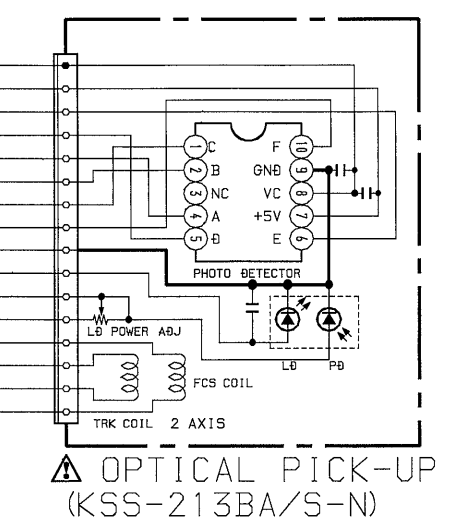
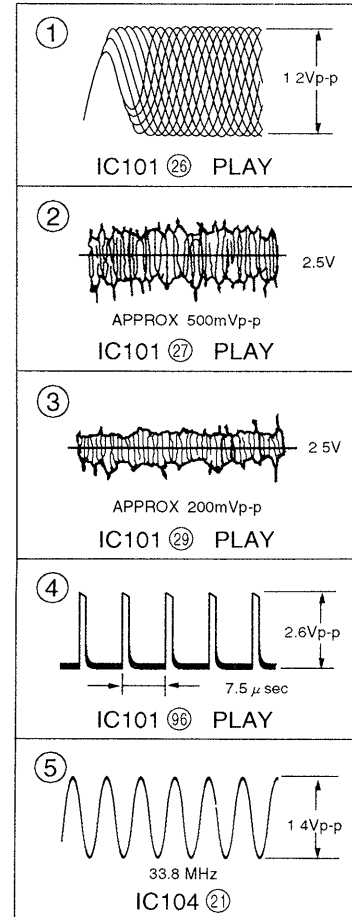
The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.

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

SCHEMATIC DIAGRAM
 • See page 11 for IC Block Diagrams.
 • See page 12 for IC Pin Function. (IC101)



● Waveforms



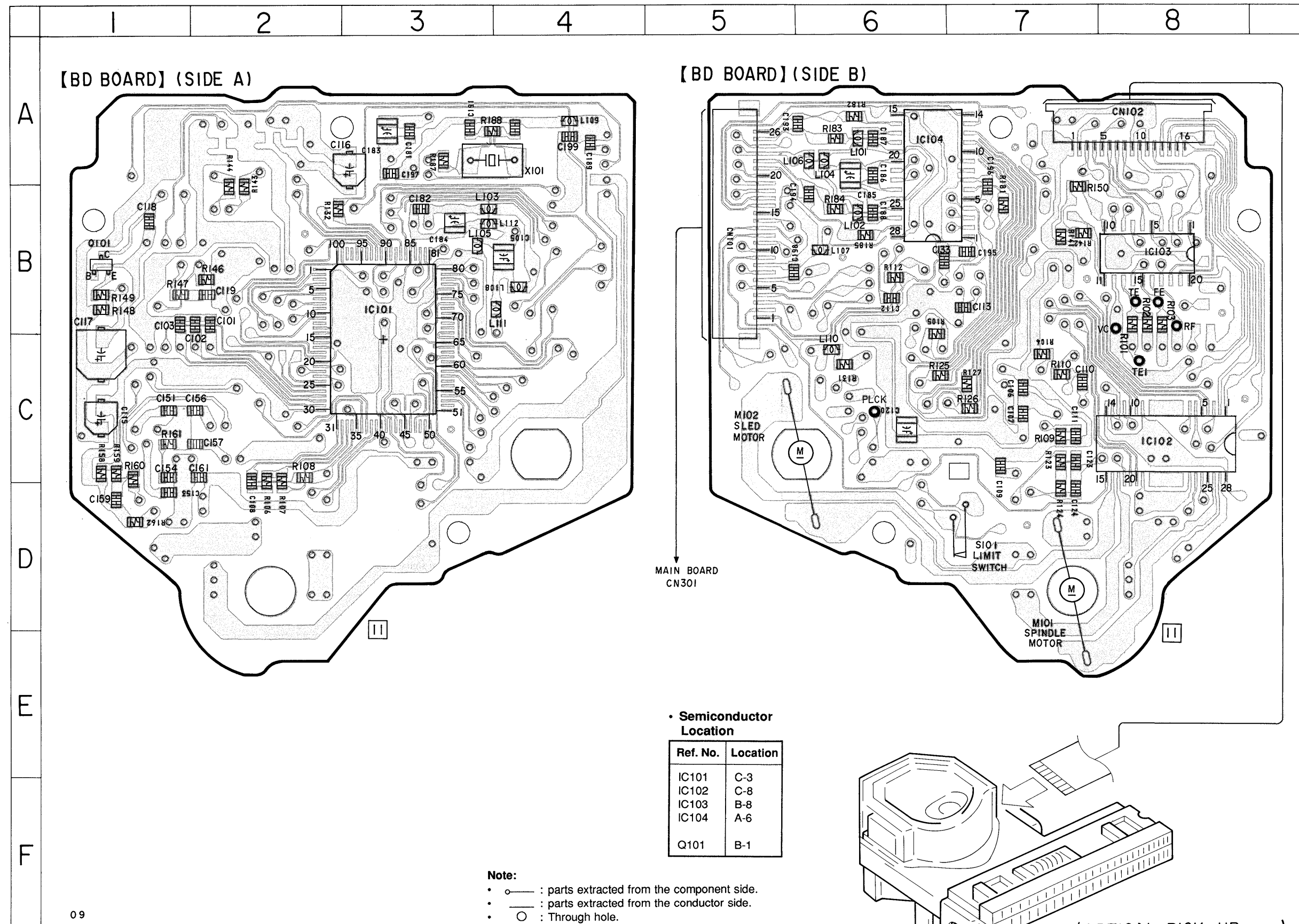
NOTE
 • All capacitors are in μF unless otherwise noted, $\text{pF} = \mu\text{F}$ 50W or less are not indicated except for electrolytics and tantalums.
 • All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.

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

- **B+** :B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal 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.

DIAGRAMS

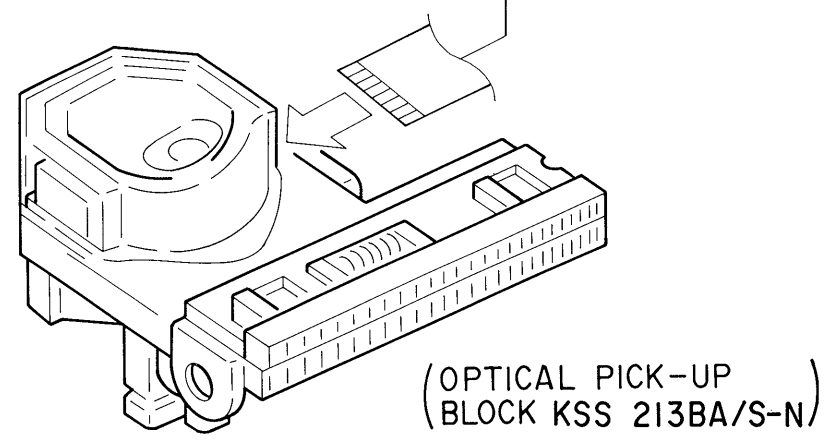
PRINTED WIRING BOARD



• Semiconductor Location

| Ref. No. | Location |
|----------|----------|
| IC101 | C-3 |
| IC102 | C-8 |
| IC103 | B-8 |
| IC104 | A-6 |
| Q101 | B-1 |

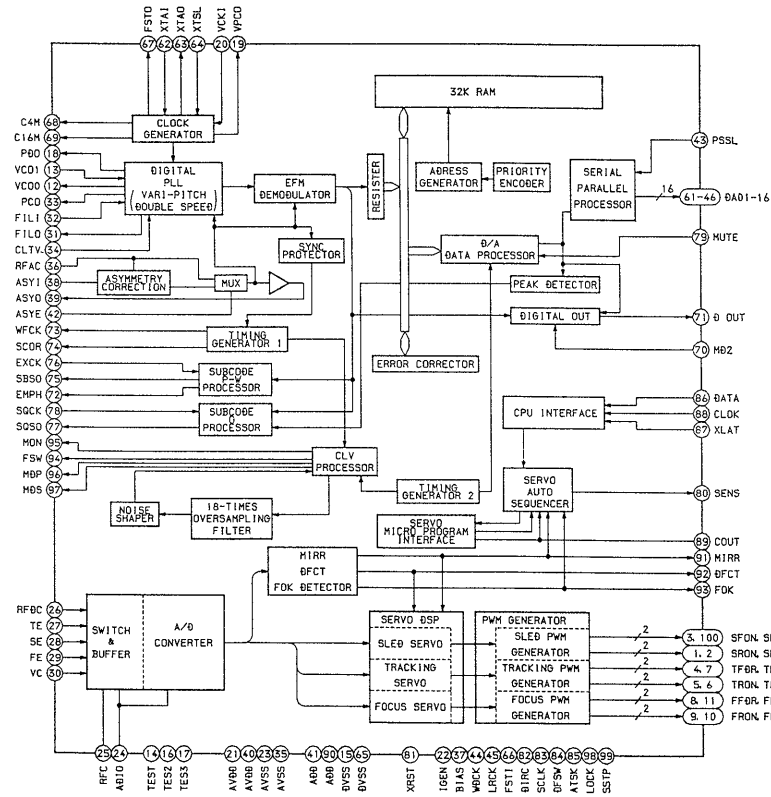
Note:
 • — : parts extracted from the component side.
 • — : parts extracted from the conductor side.
 • ○ : Through hole.
 • □ : Pattern from the side which enable seeing.
 (The other layer's patterns are not indicated.)



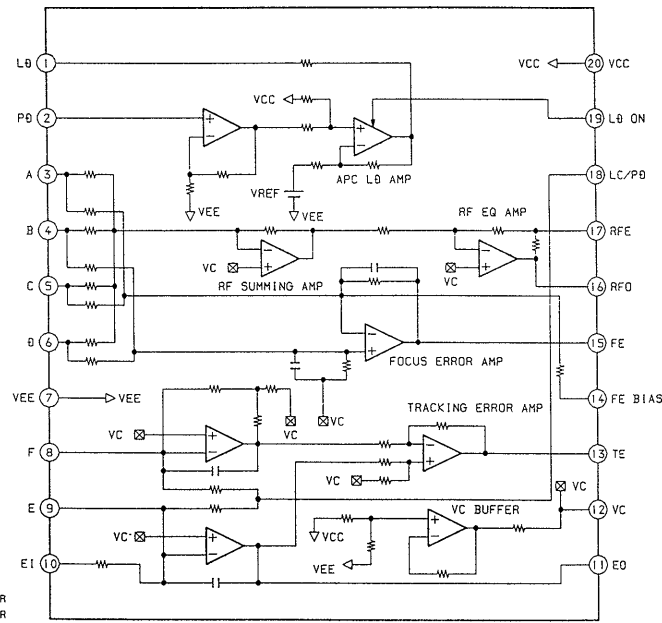
(OPTICAL PICK-UP BLOCK KSS 213BA/S-N)

IC BLOCK DIAGRAMS

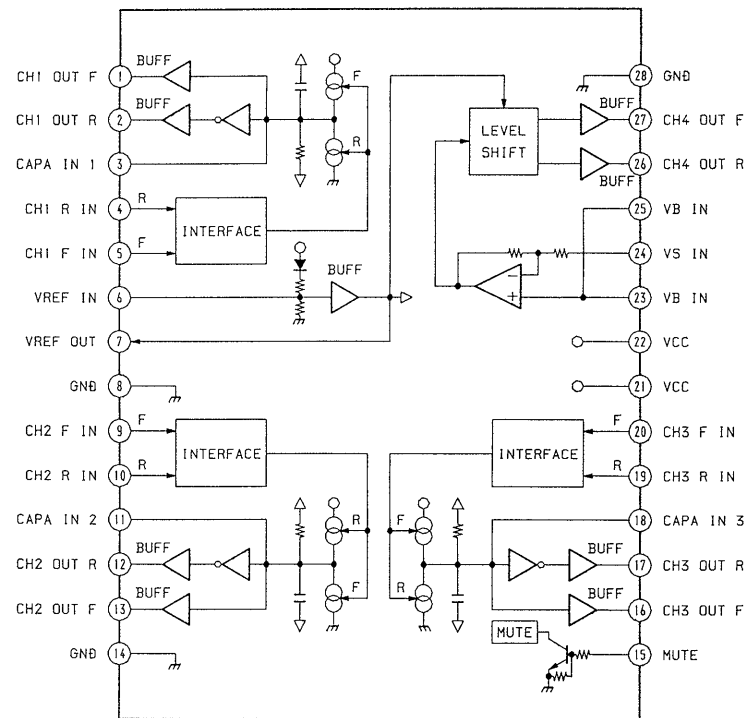
IC101 CXD2545Q



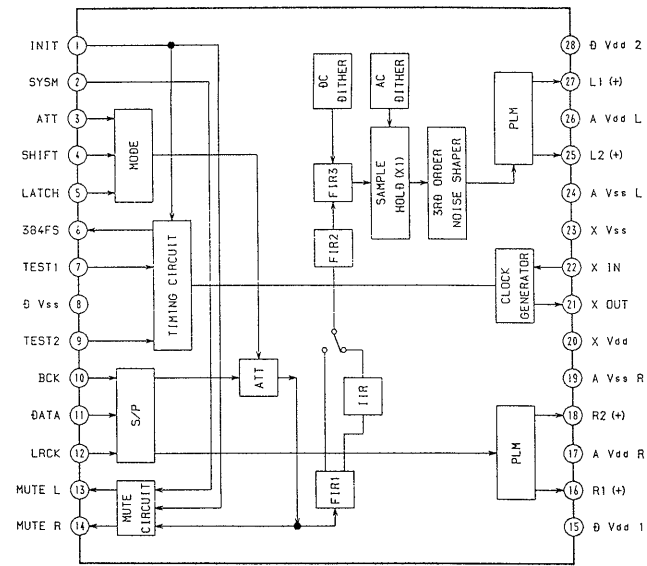
IC103 CXA1821M



IC102 BA6392FP



IC104 CXD2565AM



IC PIN FUNCTION

• IC101 (CXD2545Q)

| Pin No. | Pin Name | I/O | Function |
|---------|----------|-----|--|
| 1 | SRON | O | Sled drive output (Not used) |
| 2 | SRDR | O | Sled drive output |
| 3 | SFON | O | Sled drive output (Not used) |
| 4 | TFDR | O | Tracking drive output |
| 5 | TRON | O | Tracking drive output (Not used) |
| 6 | TRDR | O | Tracking drive output |
| 7 | TFON | O | Tracking drive output (Not used) |
| 8 | FFDR | O | Focus drive output |
| 9 | FRON | O | Focus drive output (Not used) |
| 10 | FRDR | O | Focus drive output |
| 11 | FFON | O | Focus drive output (Not used) |
| 12 | VCOO | O | VCO output for analog EFM PLL (Not used) |
| 13 | VCOI | I | VCO output for analog EFM PLL (GND) |
| 14 | TEST | I | TEST pin connected normally to GND |
| 15 | DVss | - | Digital GND |
| 16 | TES2 | I | TEST pin connected normally to GND |
| 17 | TES3 | I | TEST pin connected normally to GND |
| 18 | PDO | O | Charge-pump output for analog EFM PLL (Not used) |
| 19 | VPCO | O | Charge-pump output for variable pitch PLL (Not used) |
| 20 | VCKI | I | Clock input from variable pitch external VCO (GND) |
| 21 | AVD2 | - | Analog power supply |
| 22 | IGEN | I | Power supply pin for operational amplifiers |
| 23 | AVS2 | - | Analog GND |
| 24 | ADIO | I | (Not used) |
| 25 | RFC | O | (Not used) |
| 26 | RFDC | I | RF signal input |
| 27 | TE | I | Tracking error signal input |
| 28 | SE | I | Sled error signal input |
| 29 | FE | I | Focus error signal input |
| 30 | VC | I | Center voltage input pin |
| 31 | FILO | O | Filter output for master PLL |
| 32 | FILI | I | Filter input for master PLL |
| 33 | PCO | O | Charge-pump output for master PLL |
| 34 | CLTV | I | Control voltage input for master VCO |
| 35 | AVS1 | - | Analog GND |
| 36 | RFAC | I | EFM signal input |
| 37 | BIAS | I | Asymmetry circuit constant current input |
| 38 | ASYI | I | Asymmetry compare voltage input |
| 39 | ASYO | O | EFM full swing output |
| 40 | AVD1 | - | Analog power supply |

| Pin No. | Pin Name | I/O | Function |
|---------|----------|-----|---|
| 41 | DVDD | – | Digital power supply |
| 42 | ASYE | I | Asymmetry circuit ON/OFF |
| 43 | PSSL | I | Audio data output mode selection input (GND) |
| 44 | WDCK | O | 48-bit slot D/A interface. Word clock (Not used) |
| 45 | LRCK | O | 48-bit slot D/A interface. LR clock |
| 46 | DATA | O | DA 16 output when PSSL=1. 48-bit slot serial data when PSSL=0 |
| 47 | BCLK | O | DA 15 output when PSSL=1. 48-bit slot data when PSSL=0 |
| 48 | 64DATA | O | DA 14 output when PSSL=1. 64-bit slot data when PSSL=0 (Not used) |
| 49 | 64BCLK | O | DA 13 output when PSSL=1. 64-bit slot data when PSSL=0 (Not used) |
| 50 | 64LRCK | O | DA 12 output when PSSL=1. 64-bit slot data when PSSL=0 (Not used) |
| 51 | GTOP | O | DA 11 output when PSSL=1. GTOP output when PSSL=0 (Not used) |
| 52 | XUGF | O | DA 10 output when PSSL=1. XUGF output when PSSL=0 (Not used) |
| 53 | XPLCK | O | DA 09 output when PSSL=1. XPLCK output when PSSL=0 |
| 54 | GFS | O | DA 08 output when PSSL=1. GFS output when PSSL=0 |
| 55 | RFCK | O | DA 07 output when PSSL=1. RFCK output when PSSL=0 |
| 56 | C2PO | O | DA 06 output when PSSL=1. C2PO output when PSSL=0 (Not used) |
| 57 | XRAOF | O | DA 05 output when PSSL=1. XRAOF output when PSSL=0 (Not used) |
| 58 | MNT3 | O | DA 04 output when PSSL=1. MNT3 output when PSSL=0 |
| 59 | MNT2 | O | DA 03 output when PSSL=1. MNT2 output when PSSL=0 |
| 60 | MNT1 | O | DA 02 output when PSSL=1. MNT1 output when PSSL=0 |
| 61 | MNT0 | O | DA 01 output when PSSL=1. MNT0 output when PSSL=0 |
| 62 | XTAI | I | X'tal oscillator circuit input |
| 63 | XTAO | O | X'tal oscillator circuit output (Not used) |
| 64 | XTSL | I | X'tal selection input pin (GND) |
| 65 | DVss | – | Digital GND |
| 66 | FSTI | I | 2/3 divider output of pins 62, 63 |
| 67 | FSTO | O | 2/3 divider output of pins 62, 63 |
| 68 | FSOF | O | (Not used) |
| 69 | C16M | O | 16.9344 MHz output (Not used) |
| 70 | MD2 | I | Digital-out ON/OFF control pin (+5V) |
| 71 | DOUT | O | Digital-out output pin |
| 72 | EMPH | O | Playback disc output in emphasis mode (Not used) |
| 73 | WFCK | O | WFCK output |
| 74 | SCOR | O | Sub-code sync output |
| 75 | SBSO | O | Sub-P through Sub-W serial output (Not used) |
| 76 | EXCK | I | Clock input for SBS0 read-out (+5V) |
| 77 | SUBQ | O | Sub-Q 80-bit output |
| 78 | SQCK | I | Clock input for SQS0 read-out |
| 79 | MUTE | I | Muting selection pin |
| 80 | SENS | O | SENS output |
| 81 | XRST | I | System reset |
| 82 | DIRC | I | Used in 1-track jump mode (+5V) |
| 83 | SCLK | I | SENS serial data read-out clock |
| 84 | DFSW | I | DFCT selection pin (GND) |
| 85 | ATSK | I | Input pin for anti-shock (GND) |

| Pin No. | Pin Name | I/O | Function |
|---------|----------|-----|---|
| 86 | DATA | I | Serial data input, supplied from CPU |
| 87 | XLAT | I | Latch input, supplied from CPU |
| 88 | CLOCK | I | Serial data transfer clock input, supplied from CPU |
| 89 | COUT | O | Numbers of track counted signal output (Not used) |
| 90 | DVDD | — | Digital power supply |
| 91 | MIRR | O | Mirror signal output |
| 92 | DFCT | O | Defect signal output |
| 93 | FOK | O | Focus OK output |
| 94 | FSW | O | Output to select spindle motor output filter (Not used) |
| 95 | MON | O | Output to control ON/OFF of spindle motor (Not used) |
| 96 | MDP | O | Output to control spindle motor servo |
| 97 | MDS | O | Output to control spindle motor servo (Not used) |
| 98 | LOCK | O | GFS is sampled by 460 Hz. H when GFS is H (Not used) |
| 99 | SSTP | I | Input signal to detect disc inner most track |
| 100 | SFDR | O | Sled drive output |

ELECTRICAL PARTS LIST

NOTE:

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

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

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

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F : nonflammable

- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA..., uPB...: μ PB...,
uPC...: μ PC..., uPD...: μ PD...
- CAPACITORS
uF : μ F
- COILS
uH : μ H

| Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
|----------|--------------|-----------------------------|------------|----------|--------------|-------------------------------|------------|
| | A-4673-515-A | BD BOARD, COMPLETE ***** | | C192 | 1-163-092-00 | CERAMIC CHIP 9PF | 0.25PF 50V |
| | | < CAPACITOR > | | C193 | 1-163-125-00 | CERAMIC CHIP 220PF | 5% 50V |
| C101 | 1-163-005-11 | CERAMIC CHIP 470PF | 10% 50V | C194 | 1-163-125-00 | CERAMIC CHIP 220PF | 5% 50V |
| C102 | 1-163-038-11 | CERAMIC CHIP 0.1uF | 25V | C195 | 1-163-038-11 | CERAMIC CHIP 0.1uF | 25V |
| C103 | 1-163-005-11 | CERAMIC CHIP 470PF | 10% 50V | C196 | 1-163-005-11 | CERAMIC CHIP 470PF | 10% 50V |
| C105 | 1-135-155-21 | TANTALUM CHIP 4.7uF | 10% 16V | C197 | 1-163-038-11 | CERAMIC CHIP 0.1uF | 25V |
| C106 | 1-164-346-11 | CERAMIC CHIP 1uF | 16V | C198 | 1-163-038-11 | CERAMIC CHIP 0.1uF | 25V |
| C107 | 1-164-505-11 | CERAMIC CHIP 2.2uF | 16V | C199 | 1-164-232-11 | CERAMIC CHIP 0.01uF | 50V |
| C108 | 1-163-035-00 | CERAMIC CHIP 0.047uF | 50V | | | < CONNECTOR > | |
| C109 | 1-163-011-11 | CERAMIC CHIP 0.0015uF | 10% 50V | CN102 | 1-770-014-11 | CONNECTOR, FFC/FPC 16P | |
| C110 | 1-163-017-00 | CERAMIC CHIP 0.0047uF | 5% 50V | | | < IC > | |
| C111 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% 50V | IC101 | 8-752-369-78 | IC CXD2545Q | |
| C112 | 1-163-038-11 | CERAMIC CHIP 0.1uF | 25V | IC102 | 8-759-176-09 | IC BA6392FP | |
| C113 | 1-163-038-11 | CERAMIC CHIP 0.1uF | 25V | IC103 | 8-752-072-45 | IC CXA1821M | |
| C115 | 1-126-607-11 | ELECT CHIP 47uF | 20% 4V | IC104 | 8-752-367-61 | IC CXD2565AM | |
| C116 | 1-126-607-11 | ELECT CHIP 47uF | 20% 4V | | | < COIL > | |
| C117 | 1-126-209-11 | ELECT 100uF | 20% 4V | L101 | 1-414-234-11 | INDUCTOR, FERRITE BEAD | |
| C118 | 1-163-009-11 | CERAMIC CHIP 0.001uF | 10% 50V | L102 | 1-414-234-11 | INDUCTOR, FERRITE BEAD | |
| C119 | 1-163-097-00 | CERAMIC CHIP 15PF | 5% 50V | L103 | 1-414-234-11 | INDUCTOR, FERRITE BEAD | |
| C120 | 1-135-157-21 | TANTALUM CHIP 10uF | 20% 6.3V | L104 | 1-216-003-11 | METAL GLAZE 12 5% | 1/10W |
| C123 | 1-164-232-11 | CERAMIC CHIP 0.01uF | 50V | L105 | 1-216-295-00 | METAL CHIP 0 5% | 1/10W |
| C124 | 1-164-005-11 | CERAMIC CHIP 0.47uF | 25V | L106 | 1-414-234-11 | INDUCTOR, FERRITE BEAD | |
| C133 | 1-163-038-11 | CERAMIC CHIP 0.1uF | 25V | L107 | 1-216-295-00 | METAL CHIP 0 5% | 1/10W |
| C151 | 1-163-237-11 | CERAMIC CHIP 27PF | 5% 50V | L108 | 1-414-234-11 | INDUCTOR, FERRITE BEAD | |
| C153 | 1-163-038-11 | CERAMIC CHIP 0.1uF | 25V | L109 | 1-414-234-11 | INDUCTOR, FERRITE BEAD | |
| C154 | 1-164-336-11 | CERAMIC CHIP 0.33uF | 25V | L110 | 1-216-295-00 | METAL CHIP 0 5% | 1/10W |
| C156 | 1-163-237-11 | CERAMIC CHIP 27PF | 5% 50V | L111 | 1-216-295-00 | METAL CHIP 0 5% | 1/10W |
| C157 | 1-163-011-11 | CERAMIC CHIP 0.0015uF | 10% 50V | L112 | 1-216-295-00 | METAL CHIP 0 5% | 1/10W |
| C159 | 1-163-019-00 | CERAMIC CHIP 0.0068uF | 10% 50V | | | < MOTOR > | |
| C161 | 1-163-038-11 | CERAMIC CHIP 0.1uF | 25V | M101 | X-4917-523-4 | BASE (OUTSERT) ASSY (SPINDLE) | |
| C181 | 1-163-038-11 | CERAMIC CHIP 0.1uF | 25V | M102 | X-4917-504-1 | MOTOR ASSY (SLED) | |
| C182 | 1-163-038-11 | CERAMIC CHIP 0.1uF | 25V | | | < TRANSISTOR > | |
| C183 | 1-135-156-21 | TANTALUM CHIP 6.8uF | 10% 10V | Q101 | 8-729-118-01 | TRANSISTOR 2SB1116-K | |
| C184 | 1-135-156-21 | TANTALUM CHIP 6.8uF | 10% 10V | | | | |
| C185 | 1-135-155-21 | TANTALUM CHIP 4.7uF | 10% 16V | | | | |
| C186 | 1-163-038-11 | CERAMIC CHIP 0.1uF | 25V | | | | |
| C187 | 1-163-038-11 | CERAMIC CHIP 0.1uF | 25V | | | | |
| C188 | 1-163-038-11 | CERAMIC CHIP 0.1uF | 25V | | | | |
| C189 | 1-163-038-11 | CERAMIC CHIP 0.1uF | 25V | | | | |
| C191 | 1-163-092-00 | CERAMIC CHIP 9PF | 0.25PF 50V | | | | |

BD

| <u>Ref. No.</u> | <u>Part No.</u> | <u>Description</u> | | | | <u>Remark</u> |
|-----------------|-----------------|-----------------------------|------|----|--|---------------|
| < RESISTOR > | | | | | | |
| R101 | 1-216-077-00 | METAL CHIP | 15K | 5% | | 1/10W |
| R102 | 1-216-097-00 | METAL CHIP | 100K | 5% | | 1/10W |
| R103 | 1-216-077-00 | METAL CHIP | 15K | 5% | | 1/10W |
| R104 | 1-216-085-00 | METAL CHIP | 33K | 5% | | 1/10W |
| R105 | 1-216-097-00 | METAL CHIP | 100K | 5% | | 1/10W |
| R106 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | | 1/10W |
| R107 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | | 1/10W |
| R108 | 1-216-073-00 | METAL CHIP | 10K | 5% | | 1/10W |
| R109 | 1-216-121-91 | METAL GLAZE | 1M | 5% | | 1/10W |
| R110 | 1-216-025-00 | METAL CHIP | 100 | 5% | | 1/10W |
| R112 | 1-216-049-00 | METAL CHIP | 1K | 5% | | 1/10W |
| R123 | 1-216-073-00 | METAL CHIP | 10K | 5% | | 1/10W |
| R124 | 1-216-097-00 | METAL CHIP | 100K | 5% | | 1/10W |
| R125 | 1-216-049-00 | METAL CHIP | 1K | 5% | | 1/10W |
| R126 | 1-216-049-00 | METAL CHIP | 1K | 5% | | 1/10W |
| R127 | 1-216-049-00 | METAL CHIP | 1K | 5% | | 1/10W |
| R131 | 1-216-037-00 | METAL CHIP | 330 | 5% | | 1/10W |
| R132 | 1-216-049-00 | METAL CHIP | 1K | 5% | | 1/10W |
| R141 | 1-216-089-91 | METAL GLAZE | 47K | 5% | | 1/10W |
| R142 | 1-216-081-00 | METAL CHIP | 22K | 5% | | 1/10W |
| R143 | 1-216-101-00 | METAL CHIP | 150K | 5% | | 1/10W |
| R144 | 1-216-101-00 | METAL CHIP | 150K | 5% | | 1/10W |
| R146 | 1-216-073-00 | METAL CHIP | 10K | 5% | | 1/10W |
| R147 | 1-216-081-00 | METAL CHIP | 22K | 5% | | 1/10W |
| R148 | 1-216-001-00 | METAL CHIP | 10 | 5% | | 1/10W |
| R149 | 1-216-003-11 | METAL GLAZE | 12 | 5% | | 1/10W |
| R150 | 1-216-295-00 | METAL CHIP | 0 | 5% | | 1/10W |
| R158 | 1-216-111-91 | METAL GLAZE | 390K | 5% | | 1/10W |
| R159 | 1-216-101-00 | METAL CHIP | 150K | 5% | | 1/10W |
| R160 | 1-216-295-00 | METAL CHIP | 0 | 5% | | 1/10W |
| R161 | 1-216-308-00 | METAL CHIP | 4.7 | 5% | | 1/10W |
| R162 | 1-216-101-00 | METAL CHIP | 150K | 5% | | 1/10W |
| R181 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | | 1/10W |
| R182 | 1-216-080-00 | METAL CHIP | 20K | 5% | | 1/10W |
| R183 | 1-216-080-00 | METAL CHIP | 20K | 5% | | 1/10W |
| R184 | 1-216-080-00 | METAL CHIP | 20K | 5% | | 1/10W |
| R185 | 1-216-080-00 | METAL CHIP | 20K | 5% | | 1/10W |
| R187 | 1-216-035-00 | METAL CHIP | 270 | 5% | | 1/10W |
| R188 | 1-216-121-91 | METAL GLAZE | 1M | 5% | | 1/10W |
| < SWITCH > | | | | | | |
| S101 | 1-572-085-11 | SWITCH, LEAF (LIMIT SWITCH) | | | | |
| < VIBRATOR > | | | | | | |
| X101 | 1-579-904-11 | VIBRATOR, CRYSTAL (33.8MHz) | | | | |
