CDPC235

Subject

2 BD BOARDS USED, ONLY 1 PART # LISTED IN MANUAL

SYMPTOMS

Only one (1) board listed. This board comes with 8-752-360-75 IC used with KSS-390 optical pickup. No board listed that comes with 8-752-351-94 IC used with the KSS-240A optical pickup....Please advise if we have to change the IC or if another part # is available.

RESOLUTION

4/29/94; As per KCP the part number for the board using the KSS-240A pickup is A4649433A, this number is registered with KCP.

A4649610A 157 BD BOARD

CDPC235

Subject

AFTER PLAYING A FEW SELECTIONS STARTS SKIPPING - REPL OPTICS

SYMPTOMS

After playing a few selections, the unit starts skipping.

RESOLUTION

Replaced optical device.

884828111 151 KSS390A

CDPC235

Subject

AFTER WARM UP, DISPLAY BLINKS AND STOP PLAYING

SYMPTOMS

After unit warmed up, display blinks and stop playing during track change and look for another disc. After intensive trouble shooting, we found a defective diode in positive 9.5V supply. If 9.5V supply drops to below 6.8V, unit will reset. We think, diode is not big enough to handle heavy loads.

RESOLUTION

We recieved Suto's information that samples are on the way. We will wait for the samples and look into this situation at that time. Update 9/21/94: The Samples have not yet arrived, since this is the only report of this type of problem regarding the CPDC235 we will close this issue, We will however, watch for further reports.

871920082 D201 B21/DIODE 11ES2

CDPC235

Subject

BU UNIT HITS DISC TABLE WHEN CHUCKING

SYMPTOMS

On 2 different units the laser hits the disc table when chucking. It appears disc table, ref# 59, is stopping too far clockwise. The pin on ref# 123 is against the left side of the slot in ref# 59. Is there any adjustment? What makes the table stop in this particular place?

RESOLUTION

(Feb 5) Replacing R458 with a 3K, 1/6 W (P/N 124784200) and R457 with a 5.6k, 1/6 W (P/N 12784900) repaired a unit sent to Tech. department. R459 is a 2.1k and was already installed on the unit worked on at Tech Dept. Positive feedback from Boston and Atlanta. -UPDATE: From Tokyo: 4/11, Replace IC401 with p/n 875284942, verify R457 - 2.4 k ohm, R458 - 750 ohm, R459 - 1.2k ohm resistor p/n's listed in S/M.

CDPC235

Subject

DEAD UNIT - POWER TRANFORMER OPENED

SYMPTOMS

Checked and found open primary (thermal fuse) in power transformer. Noticed that Q504 and Q502 had overdissipated. Checked both transistors and found shorted collector/emitters on both. Replaced Q502, Q503 and Q504. Then found that IC501 pins 13 and 19 were at -1vdc and +1vdc.

RESOLUTION

Replaced power transformer Q502, Q503, Q504 and IC501. Normal operation restored.

142355311

T901

POWER TRANSFORMER

CDPC235

Subject

DISC TRAY, ROTATES CONTINUOUSLY (REPLACE D801)

SYMPTOMS

At power on disc tray would spin and not stop. Other functions were normal (open/close).

RESOLUTION

By checking D801 connector @ main board, voltages were correct but, pin 5 (T. Sens) data looked bad. Replaced D801, solved problem.

The purpose of D801 is to sense the location of the disc tray by detecting the slots in the tray and outputting pulses to the micro IC401 (pin 6).

874992418

D801

J8/IC RPI 1391

CDPC235, CDPC335

Subject

INTERMITTANT AUDIO - REPLACED BD TO MAIN BD FLEX CABLE

SYMPTOMS

Right or left channel intermittently cutting out.

RESOLUTION

Replaced flex cable from BD board to main board.

164840911 **122 FLEX CABLE**

CDPC235 CDPC335

Subject

JAMS DISC TABLE, WON'T PLAY DISCS - REPLACE GEAR 61 AND 66

SYMPTOMS

Unit will not play discs. BU assembly won't come up, due to interference with disc table. Occasionally, the CLV motor pulley is damaged.

RESOLUTION

To repair this problem as per Tokyo: Replace IC 401 with P/N 8-752-849-42, also verify values of R457 (2.4 ohm) R458 (750 ohm) and R459 (1.2k ohm). The P/N's of the resistors are listed in the S/M. A Service Bulletin is in the process of being issued to completely list part numbers and serial number ranges.

X49433791

61 GEAR, ROTARY A, ASSY

CDPC235, CDPC335

Subject

MECHANICAL ALIGNMENT PROCEDURE AVAILABLE, SEE S/M SUPP. #2

SYMPTOMS

The unit had no mechanical movement. I found the above part out of item number 119 slot (down position on both units).

RESOLUTION

I reinstalled item number 123 into the slot on number 119 and the unit restored operation. Is there any written alignment procedure for this new mechanism?

We have asked Tokyo to provide the alignment procedure. -UPDATE: Please refer to service manual supplement #1 for the mechanical alignment procedure.

495728901

123

BU-5BD (BASE UNIT)

CDPC235

Subject

NO AUDIO - REPLACED OPTICAL DEVICE AND CABLES 122 AND 153

SYMPTOMS

Unit had no audio traced problem to defective cables, than unit was skipping. Found defective optics.

RESOLUTION

Replaced cables 122 and 153 and optical device.

884828111 151 KSS390A

CDPC235

Subject

STATIC IN AUDIO OUT - REPLACED IC501

SYMPTOMS

Static in audio, traced signal to IC501 sound was good going into the IC but bad going out.

RESOLUTION

Replace IC501.

875917588 IC501

D19/LINE AMP/MUTING ATT

CDPC235

Subject

TABLE KEEPS ROTATING WITH LESS THAN 3 DISCS

SYMPTOMS

With less than 3 discs in unit the table will continue to rotate unless you put some pressure on the turntable to slow it down. With 3 discs it will detect the discs and play them. With 1-2 discs it will not detect the discs and play unless you put slight pressure on the side of the turntable.

RESOLUTION

Try replacing the resistors as outlined in FPR P0144, this mod will slightly slow the rotation of the disc table. As per our conversation, this resistor mod solved the problem.

CDPC235

Subject

WEAK RIGHT CHANNEL - REPLACED LINE AMP IC501

SYMPTOMS

Right channel is weak.

RESOLUTION

Replaced line amp IC; normal operation restored.

The line amp supplies L and R audio signals to the line out jacks and the headphone amp (IC551) the same symptom, low right audio, will be noticable through both outputs.

875906166 IC501 D19/LINE AMP

CDPC235, CDPC435, CDPC535

Subject

TRAY MOTOR SPINNING BACKWARDS - REPLACE TABLE MOTOR

SYMPTOMS

Ran into this problem 5 times in past 3 weeks. Removed tray motor. Old motor is installed with lable on motor facing up. If new motor is installed with label facing up, motor will spin backwards and tray will not function properly.

RESOLUTION

When replacing this motor, I installed it with label facing down so it spins the correct way. Replaced motor because of tray hitting the BU mech. Tried resistor mod but it did not work. If the mod doesn't work, tray motor will usually fix the problem.

A4660322A M801 DISC TABLE MOTOR

CDPC235

Subject

WON'T READ COMPLETE DISC - RESOLDERED IC101

SYMPTOMS

Unit would not read a full disc.

RESOLUTION

Resoldered IC101 of CD board.

875235194 IC101 J13/CXD2515Q

CDPC235, CDPC245, CDPC335, CDPC435, CDPC445, CDPC545, CDPCA7ES

Subject

TRAY MOTOR NOT LABELED OR WIRED CORRECTLY

SYMPTOMS

After replacing the tray motor with a new one the player would not work correctly, the tray would rotate back and forth and not recognize the cd in the unit.

RESOLUTION

Checking the old motor found, it mounted in the unit with the lable facing up and the positive terminal on the left, this turns counterclockwise. I installed the new motor the same way and it did not work. The new motor installed with label down worked correctly.

I checked the samples sent to the Tech dept. You're correct the new motor does spin in the opposite direction of the original motor. I have notified KC parts to check stock and take corrective action.

A4660322A M801 TRAY TABLE MOTOR

CDPC235, CDPC265, CDPC335, CDPC365, CDPC445, CDPC545, CDPC745, CDPCA7ES, CDPCA8ES, CDPCA9ES

Subject

WHISTLING NOISE - ADD RTV BTWN SPINDLE MOTOR & BD BOARD

SYMPTOMS

A whistling noise (about 400HZ) manifests itself on certain cuts of disc (Goodbye Yellow Brick Road, Elton John, Polydor D103076). If you touch the optical block lightly, the noise disappears.

RESOLUTION

Remove the spindle motor from the BD board. Add a layer of silicone sealer (RTV) between the spindle motor and BD Board. Re-install the spindle motor, take care not to allow the base of the spindle motor to contact, or directly lay on the BD board during reassembly.

Adding the RTV silicone compound between the motor and BD board isolates the two parts. There is no vibration transfer from the motor and spinning disc, therefore, the whistling noise stops.

732206519

RTV SILICONE COMPOUND

CDPC435

Subject

ALTERNATIVE METHOD TO REPAIRING CHASSIS VS REPLACING

SYMPTOMS

Found plastic rod coming out of chassis, as shown on pg 35 of SM, can be repaired. Purpose of rod is to push on the rack release and release rack. If plastic rod breaks, disc exchange doesn't work properly. Method used is to drill a hole where the rod was all the way through, then insert a screw from under unit so threads are showing in place where rod was. Screw to proper height and lock screw head. Now screw is doing job of plastic post. Part for screw 768566014.

RESOLUTION

We continue to investigate this issue

495728501

111

LEVER, SET

CDPC435

Subject

BU ASSY CONTACT TRAY SB HFP0389 UPDATE - REPL TABLE MOTOR

SYMPTOMS

Had problem as stated in HFP0359 and put correct value resistors and replaced microprocessor with no re

RESOLUTION

of the problem. -SOLUTION: Replaced table motor, problem resolved.

A4660322A

M801

TABLE MOTOR

CDPC435

Subject

DRAWER WILL NOT OPEN - RESOLDERED MOTOR TERMINAL

SYMPTOMS

Drawer will not open motor does not run for open/close

RESOLUTION

Resoldered motor, one terminal was poorly soldered from the factory (intermittent contact). Resoldering restored normal operation.

A4608834A

M802

MOTOR ASSY LOADING

CDPC435

Subject

INTERMITTENTLY READING DISC - FLEX CABLE INTERMITTANT

SYMPTOMS

The unit would start to play fine than audio would distort and spindle goes high speed.

RESOLUTION

Replaced flex cable from main PCB to BD board unit works.

Although the flex connector may be perceived as a weak point there has been little parts movement of this piece in reference to the CDPC435.

175112311

122

FLEX CABLE

CDPC435

Subject

MECH NOISE WHEN OPEN, NO PLAY

SYMPTOMS

Unit has mech noise when open drawer or no play. Inspection under disc table found chassis part holding lever set broken, lever set loose inside unit.

RESOLUTION

The solution is to replaced chassis, part not supplied.

We will notify KCP about stocking this chassis.

495728501 111 LEVER SET

CDPC435

Subject

SERVICE MANUAL CORRECTION - U/D GEAR P/N CORRECTION

SYMPTOMS

The Service Manual for CDP-C435/C535 is incorrectly printed. The part number for U/D Gear (Ref# 119) shown as 4-957-286-04.

RESOLUTION

Correct Part number is 4-957-286-01.

495728601 119 GEAR (U/D)

CDPC435

Subject

UNIT HAD POWER BUT WAS INOPERATIVE - CN801 MAKNG BAD CONTACT

SYMPTOMS

Unit had power but was inoperative.

RESOLUTION

Connector CN801 from sensor board was not making a good connection on table motor board.

CDPC435

Subject

WIRING HARNESS TO ROTARY ENCODER NOT SEATED PROPERLY

SYMPTOMS

Player exhibited symptoms similar to either flex cable or control problems. Door opening and closing by itself, B.U. assembly would go up or down or do nothing. It did not know where it was.

RESOLUTION

Disassembled unit to look at rotary encoder. Found S3 wire going to rotary encoder from main board not fully seated into socket of encoder. Pressed wire firmly into socket. Unit restored to normal operation.

CDPC535

Subject

NO FUNCTION AFTER WARMUP, DISPLAY FLASHES OFF - REPL D601

SYMPTOMS

Unit plays ok, then after warmup, display flashes off and cycles. System control is getting reset from supply as it goes down then recovers. It starts this cycling when play is pressed and disc spins up.

RESOLUTION

Traced power supply weakness to intermittent open diode of bridge. (60hz ripple on pos supply side rather than 120hz) shunted with known good diode, worked fine.

871920082 D601 C21/DIODE 1IES2

SONY

Hi-Fi Products Service Bulletin

CSA-13

Sony Service Company - Technical Services A Division of Sony Electronics Inc. Sony Drive, Park Ridge, New Jersey 07656

Model:

CDP-C235

No. 390

CDP-C335

Subject: Motor Drive Circuit Modification

Date: April 26, 1994

Symptom:

(62)

The BU assembly contacts the disc tray when attempting to load a disc.

Solution: Replace IC401 with the part listed below.

REF	FOR	MER	NEW				
	DESCRIPTION	PART NUMBER	DESCRIPTION	PART NUMBER			
IC401	CXP82316- 020Q	8-752-843-25	CXP82316- 026Q	8-752-849-42			

Verify the value of the following 1/4 watt resistors:

R457	2.4K ohm	P/N 1-247-840-00
R458	750 ohm	P/N 1-247-828-11
R459	1.2K ohm	P/N 1-249-418-11

If resistors of a different value are currently installed in these locations remove them, and replace with the proper value.

Applicable Serial numbers for CDP-C235, after 877658

Applicable Serial numbers for CDP-C335, after 854051

Reference: Tokyo Fax Ref # A0400291 Autoflagged - NO



PRINTED IN USA

CONFIDENTIAL

CSA-13

Sony Service Company National Technical Services A Division of Sony Electronics Inc. Park Ridge, New Jersey 07656

Service Bulletin Hi-Fi Products

Model: CDP-C235, CDP-C335, CDP-C435, CDP-C535 No. 365R1

Subject: Part Number Missing - Reference No. -, Main Date: May 15, 1996

Chassis

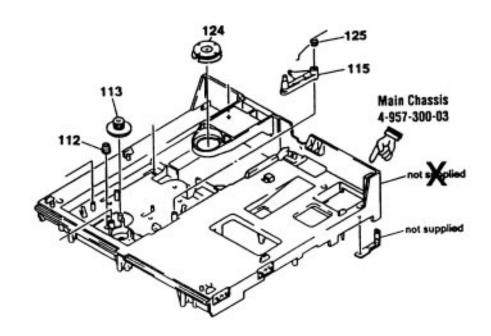
Symptom:

(**) The part number for Ref # -, Main Chassis, which is shown on page 23 of the Service

Manual, is not listed in the parts list.

Solution: Please add the following part number to the Service Manual.

REF	DESCRIPTION	PART NUMBER
-	MAIN CHASSIS	4-957-300-03



SONY.

Hi-Fi Products Service Bulletin

CSA-13

Sony Service Company - Technical Services A Division of Sony Electronics Inc. Sony Drive, Park Ridge, New Jersey 07656

Model: CDP-C235/C335/C435/C535 No. 353

Subject: Preventing Shipping Damage When Repaired Units Date: August 31, 1993

Are Returned To Customers.

Symptom:

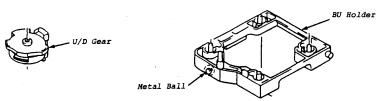
(62)

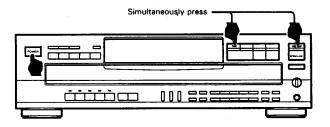
Shipping damage may occur if the BU holder is not set to the "up" position before packing the unit. Typically, the metal ball attached to the BU holder becomes dislodged from the U/D gear if the unit is dropped during shipping.

Solution:

Prevent shipping damage by making sure the BU holder is set to the "up" position before packing the unit. To do this quickly...

- Simultaneously press the reverse AMS button and Disc Skip button.
- Turn on the power while keeping the buttons pressed.
- When the words "NO DISC" appears on the display, turn off the power.
- The unit can now be shipped safely.





Reference: Tokyo FAX to K. Tajima Autoflagged - YES



PRINTED IN USA CSA-13893-3

CDP-C235/C335

SONY. SERVICE MANUAL

US Model Canadian Model AEP Model CDP-C235/335 Australian Model CDP-C235 UK Model

SUPPLEMENT-1

File this Supplement with the Service Manual.

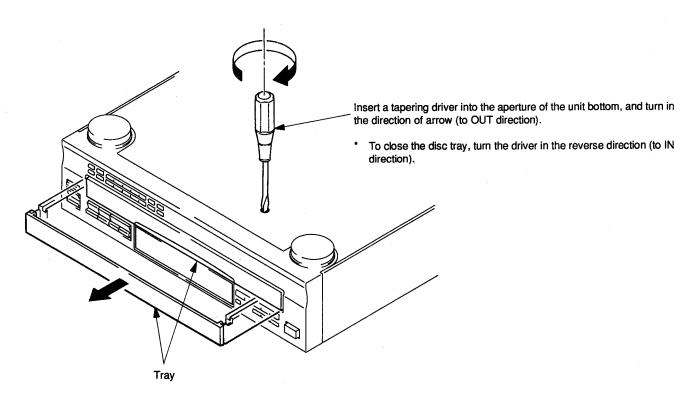
Subject: • How to open the Disc tray when Power switch turns off.

Block Diagram

IC Block Diagram

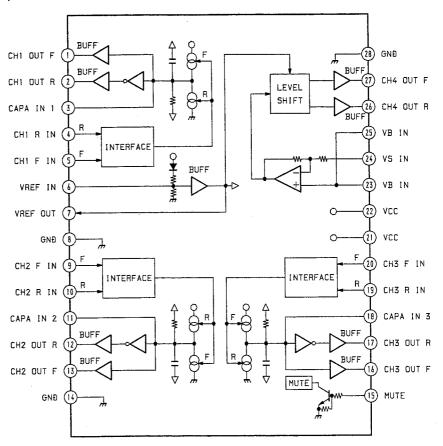
Correction

HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS OFF

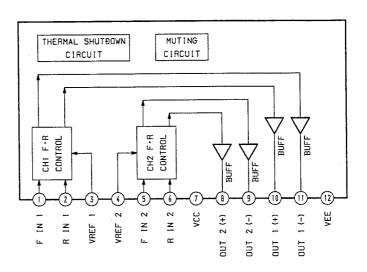


• IC BLOCK DIAGRAM

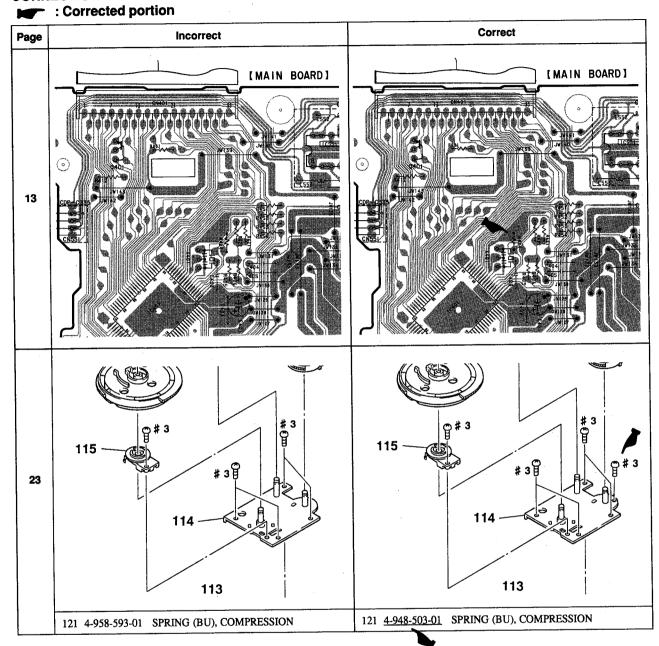
IC102 BA6392FP



IC451 BA6191



CORRECTION



- 6 --

CDP-C235/C335

SERVICE MANUAL

SUPPLEMENT-2

File this Supplement with the Service Manual.

US Model Canadian Model AEP Model

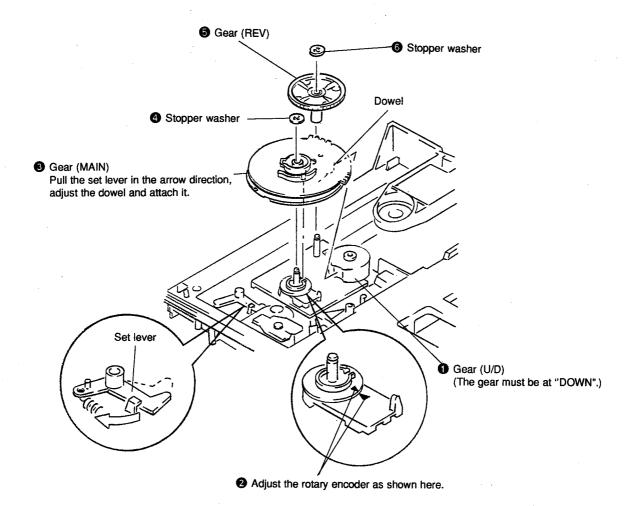
Australian Model

UK Model E Model

Subject: Positioning the Encoder When Attaching the Gear (MAIN)

The position of the rotary encoder must be adjusted when attaching the gear (MAIN). If its position is not adjusted properly, problem may occur afterwards during operation.

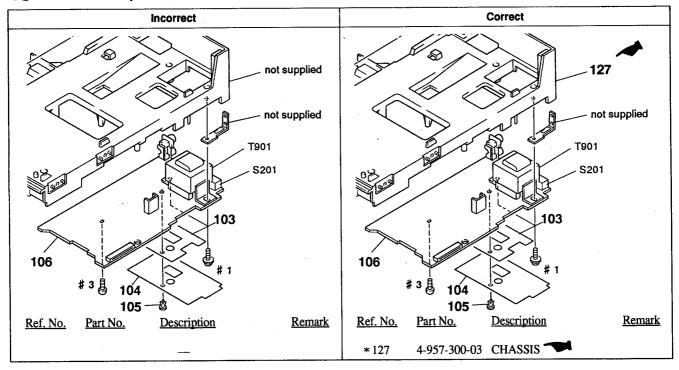
: Correction



CORRECTION

Please correct your Service Manual. 6-3. CHASSIS ASSEMBLY (Page 23)

: Corrected portion



English

CONFIDENTIAL



Sony Service Company National Technical Services A Division of Sony Electronics Inc. Park Ridge, New Jersey 07656

Service Bulletin Hi-Fi Products

Model: CDP-C235, CDP-C335, CDP-C435, CDP-C535 No. 490

Subject: Substitution for KSS-390A Date: June 14, 1996

Symptom:

(**)

The Optical Block KSS-390A is no longer available and KSS-240A is supplied as the substitution. As the two parts have some electrical and mechanical differences, please perform the following changes according to the model being serviced.

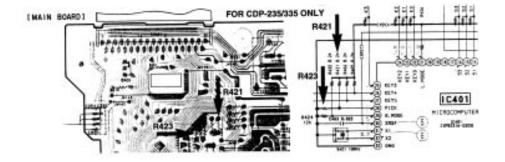
Solution: For CDP-C235/335:

- 1. Check the value of R421. If it is $8.2 \text{K}\Omega$ or less, leave it in circuit. Otherwise, remove it and replace it with a jumper wire.
- 2. Confirm the existence of R423. If it is mounted, remove it. This is needed to keep pin 28 of IC401 High when operating CD function.
- 3. Replace the flat wire which connects the BD Board and Optical Block with the new type listed below.

For CDP-C435/535:

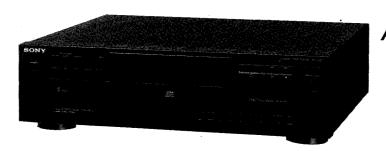
Just replace the flat cable with the new type. No circuit modifications needed.

Description	Part Number	Note
Flat Cable	1-575-001-11	This cable must be used with KSS-240A



CDP-C235/C335

SERVICE MANUAL



US Model Canadian Model AEP Model

Australian Model
UK Model

E Model

Photo: CDP-C235

Model Name Using Similar Mechanism CDP-C225/C325
Optical Pick-up Block Type BU-5BD13

SPECIFICATIONS

Com	pact	Disc	Player	r
-----	------	------	--------	---

System Laser

Wavelength

Frequency response Signal to noise ratio Dynamic range Harmonic distortion Channel separation

Outputs

LINE OUT (phono jacks) PHONES (stereo phone jack) Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms Output level max. 10 mW Load impedance 32 ohms

Compact disc digital audio system

Semiconductor laser

2 Hz-20 kHz (±0.5 dB)

More than 102 dB

Less than 0.0045%

More than 100 dB

More than 98 dB

780-790 nm

(CDP-C335 only)

General

Power requirements

Model for US and Canadian

120V AC, 60Hz

Model for Australian and UK

240V AC, 50/60 Hz

Model for E

110-120V, 220-240V AC, 50/60Hz

Power consumption Dimensions (w/h/d) 14 W

Approx. $430 \times 125 \times 385$ mm

 $(17 \times 5 \times 15^{1/4} \text{ inches})$ (CDP-C335/C235)

Including projecting parts and

controls

Mass

Approx. 5.6 kg , net (12 lbs 6oz) (CDP-C335/C235)

Remote Commander

Remote control system

Power requirements

Dimensions

Mass

Infrared control
3 V DC with two size AA batteries

RM-D335 (CDP-C335 only)

(IEC designation R6)

45 × 185 × 20 mm (w/h/d) (1 13/16 × 7 3/8 × 13/16 inches)

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-C335 only)
Sony SUM-3 (NS) batteries (2) (CDP-C335 only)
AC plug adaptor (1) (CDP-C335 E model only)

Design and specifications are subject to change without notice.



COMPACT DISC PLAYER
SONY®

For the Customers in Canada

CAUTION

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

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

For the Customers in Australia

The following caution label is located inside of the unit.

DANGER INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK
INVISIBLE LASER
RADIATION WHEN OPEN
AND INTERLOCK
DEFEATED. AVOID
DEFEATED. AVOID DERECT EXPOSURE TO
BEAM.

DANGER
RADIATION DE LESER
INVISIBLE LORS D'OUVERTURE
AVEC L'ENCLENCHEMENT DE
SECURITE ANNULE. EVITER
L'EXPOSITION DIRECTE AU
RAYON. 4996-403-01

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

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A 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.

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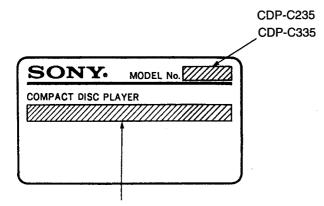
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ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A 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

-- Model Number Label--



US, Canadian model: AC: 120V 60Hz
UK, Australian model: AC: 240V~50/60Hz

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

E model: AC: 110-120V, 220-240V~50/60Hz

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

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

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

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

NOTES ON LASER DIODE EMISSION CHECK

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

SAFETY CHECK-OUT

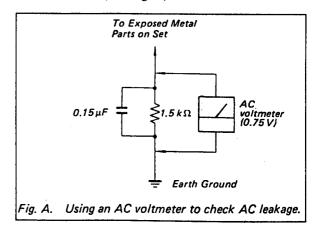
After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

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

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

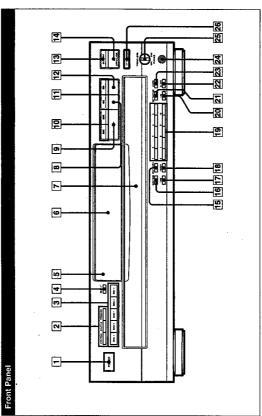
- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



SECTION 1 GENERAL

This section is extracted from instruction manual.

Identifying the Parts



See the pages indicated in () for details. CONTINUE button (8)

SHUFFLE button (13)

PROGRAM button (14)

S >10 (over 10) button (10)

D DSC 3-5 button (8)

E p (play) button (8)

M 44PP (MSI) button (9)

Z A4PP (MSI) button (9)

M 61 (pause) button (9)

M 64PP (MSI) button (9)

M 64PP (MSI) button (9)

M 64PP (MSI) button (14)

D DISC SKIP button (14)

D DISC SKIP button (14)

M DISC SKIP button (14)

M SKIP button (14)

M SKIP button (15)

M 64PP (MSI) button (16) 1 PLAY MODE buttons Remote Commander (CDP-C335 only) 0 0 0 0 1 1 1 0 0 0 0 1 1 1 0 0 0 0 1 1 1 CDPLAYER

■ (stop) button (8)
MUSIC SCAN (M. SCAN) button (17)
FADER button (12)

◆▲/▶► (manual search) buttons (10) CLEAR button (14)

© DISC SKIP button (8)

■ ◆ OPEN/CLOSE button (8)

■ PERK SEARCH button (19)

■ MUSIC SCAN (N. SCAN) button (17)

□ TIME button (9)

See the pages indicated in () for details.

1 POWER switch (8)
2 PLAY MODE buttons

CONTINUE button (8) SHUFFLE button (13) PROGRAM button (14)

Numeric buttons (10)
>10 (over 10) button (10)
EDIT/TIME FADE button (20)

GHECK button (16)
PHONES jack (CDP-C335 only) (9)
PHONE LevEL control
(CDP-C335 only) (9)

EX-CHANGE button (11) CLEAR button (14)

Trickardwa button (14)

S DISC 1-5 buttons (8)

4 REPEAT button (18)

E Display window (8)

7 Disc tray (8)

B # (pause) button (8)

10 Ind 44Pe I (AMS*) buttons (10)

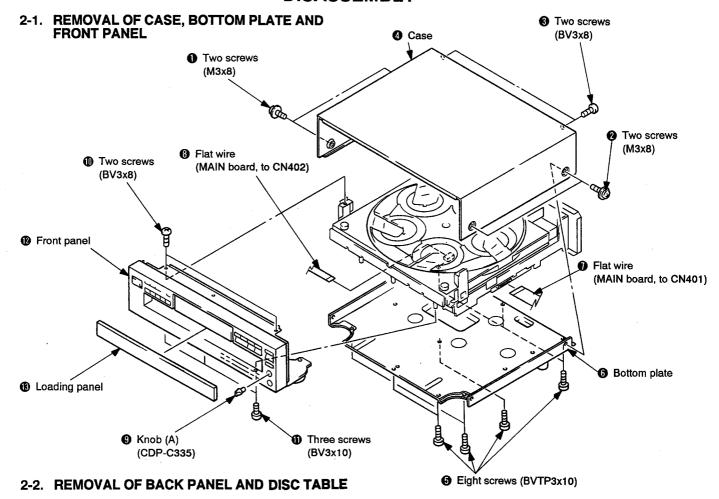
11 44Pe I (manual search) buttons (10)

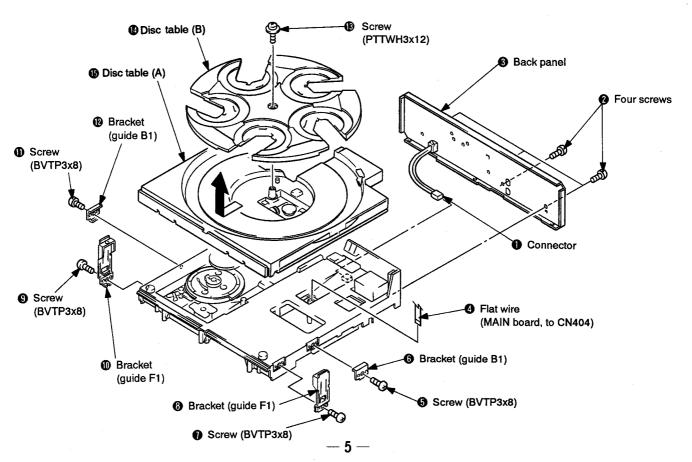
12 ■ (stop) button (8)

AMS is the abbreviation for Automatic Music Sensor.

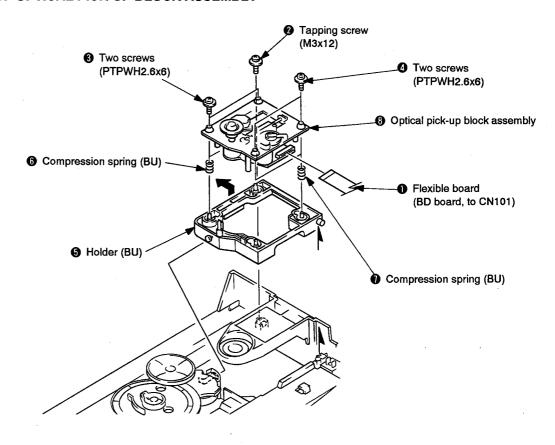
9

SECTION 2 DISASSEMBLY

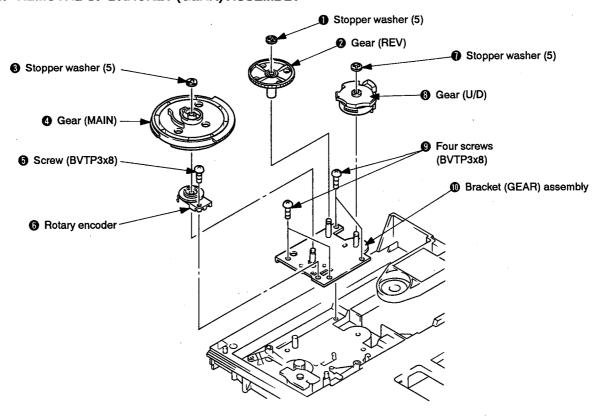




2-3. REMOVAL OF OPTICAL PICK-UP BLOCK ASSEMBLY



2-4. REMOVAL OF BRACKET (GEAR) ASSEMBLY

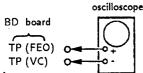


SECTION 3 ELECTRICAL BLOCK CHECKING

Note:

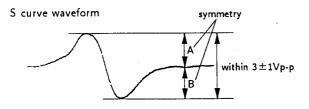
- CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
- 2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
- 3. Use the oscilloscope with more than $10 \mathrm{M}\Omega$ impedance.
- 4. Clean an object lens by an applicator with neutral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

S Curve Check



Procedure

- Connect oscilloscope to test point TP (FE) on BD board.
- 2. Connect between test point TP (FE1) and TP (VC) by lead wire
- 3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
- 4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.

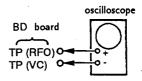


5. After check, remove the lead wire connected in step 2.

Note: • Try to mesure several times to make sure that the ratio of A:B or B:A is more than 10:7.

 Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

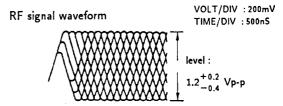


Procedure:

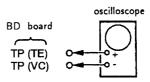
- Connect oscilloscope to test point TP (RFO) on BD board.
- 2. Turn Power switch on.
- 3. Put disc (YEDS-18) in and playback.
- 4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note:

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

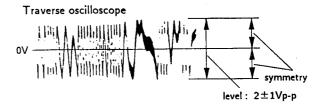


E-F Balance Check



Procedure:

- 1. Connect test point TP (ADJ) to ground and TP (TEI) to TP (VC) with lead wire.
- 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 osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

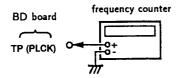


3. Remove the lead wire connected in step 1.

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.

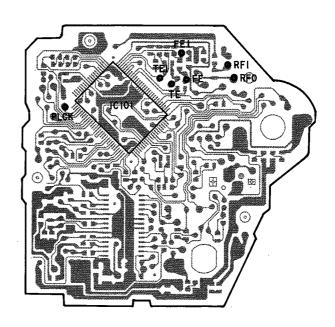
Focus/Tracking Gain

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

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

Adjustment Locations: [BD board]

conductor side —



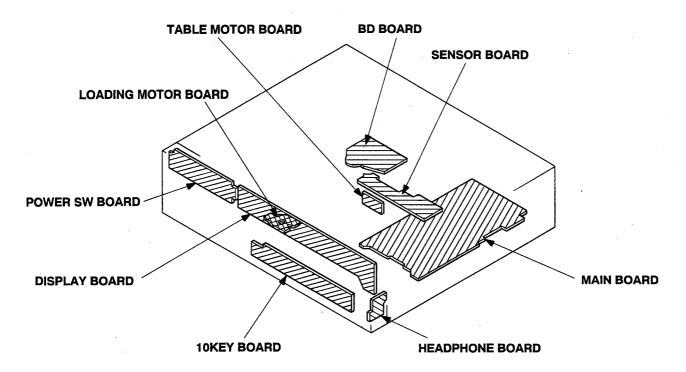
SECTION 4 IC PIN FUNCTIONS

CXP82316-020Q (IC401) PIN FUNCTIONS

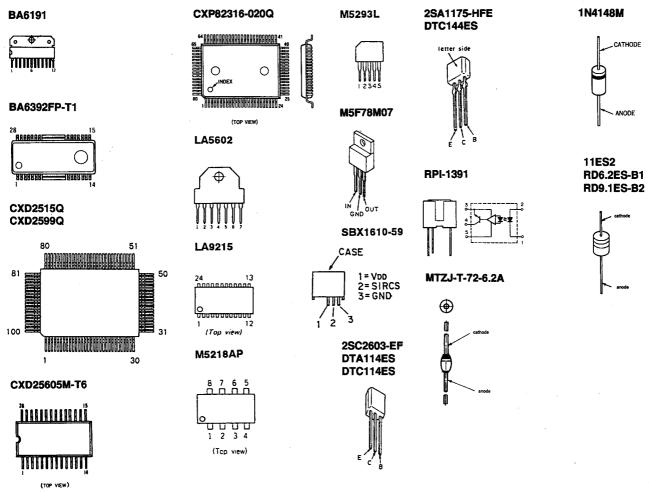
PIN No.	PIN NAME	I/O	FUNCTION
1	AF ADJ	I	Test mode pin. Normally: "H"
2	RM IN		Remote control signal input pin.
3	ADJ	ı	Test mode pin. Normally: "H"
4	A MUTE	0	Analog muting control signal output pin.
5	LDON	0	Optical pick-up laser diode control pin. ON: "H"
6	T.SENS	1	Slit sensor of disc table input pin.
7	PRGL	0	Latch signal output pin to digital filter IC.
8	CLK	0	Serial clock output pin.
- 9	XLT	0	Serial data latch signal output pin.
10	DATA	0	Serial data output pin.
11	SQCLK	0	Subcode Q data readout clock output pin.
12	SUBQ	l	Subcode Q data input pin.
13	SCLK	0	Internal register of SSP/DSP readout clock output pin.
14 to 16	ENC1 to ENC3	ı	Loading encoder input pin.
17 to 20	-		Not used.
21	L.MODE	1	Loading mode setup pin.
22 to 27	KEY0 to KEY5	1	Key input pin. (A/D)
28	PICK	l	Optical pick-up setup pin. 0V: KSS-240A, 2.5V: KSS-390A, 5V: Automatic discrimination
29	D.MODE	ı	Disc table feeling and stop precision fine adjustment pin.
30	XRST	I	Reset signal input pin.
31	X1	ı	10MHz clock input pin.
32	X2	0	10MHz clock output pin.
33	GND	_	GND
34	LODOUT	0	Loading motor control pin.
35	LODIN	0	Loading motor control pin.
36	TBLL	0	Table motor control pin.
37	TBLR	0	Table motor control pin.
38 to 57	P1 to P20	0	FL segment output pin.
58 to 62		-	Not used.
63 to 70	G1 to G8	0	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	ı	SENSE signal input pin.
80	SCOR	1	Subcode Q data readout timing signal input pin.

SECTION 5 DIAGRAMS

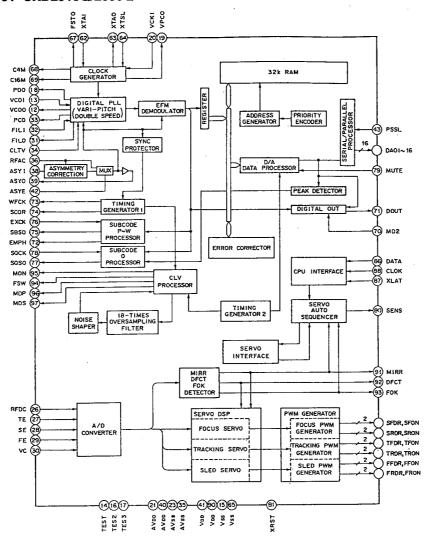
5-1. CIRCUIT BOARDS LOCATION



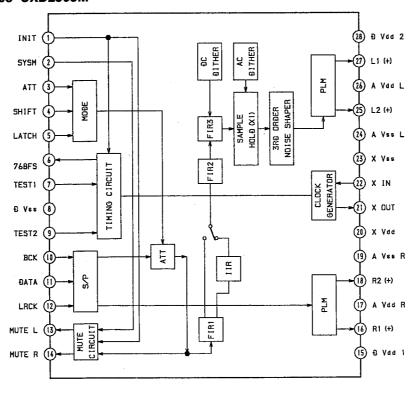
5-2. SEMICONDUCTOR LEAD LAYOUTS



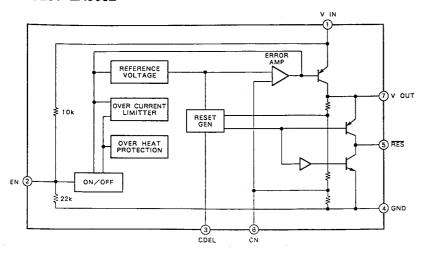
IC101 CXD2515Q/2599Q



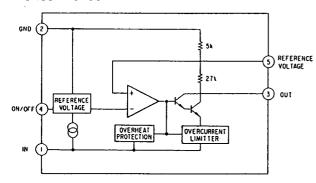
IC103 CXD2565M



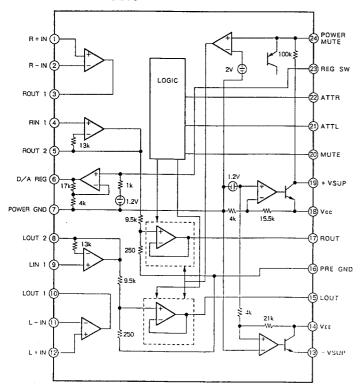
IC201 LA5602



IC203 M5293L



IC501 LA9215



SECTION 6 EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example:

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

↑

Parts color

Cabinet's color

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark

↑ or dotted line with mark ↑ are critical for safety.

Replace only with part number

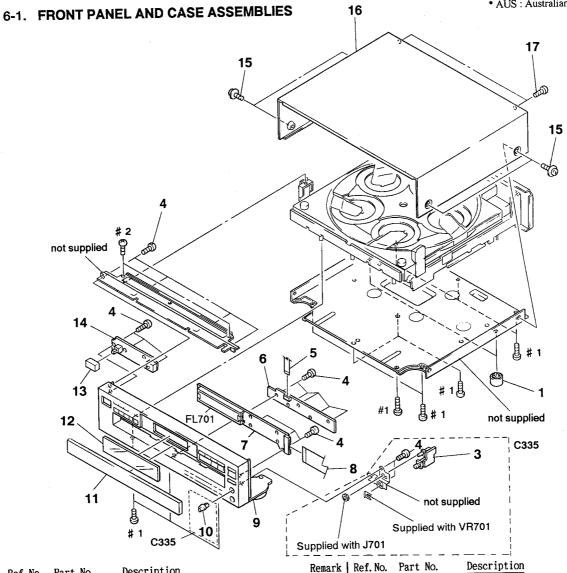
specified.

Les composants identifiés par une marque Λ sont critiques pour la sécurité.

Ne les remplacer que par une piéce portant le numéro spécifié.

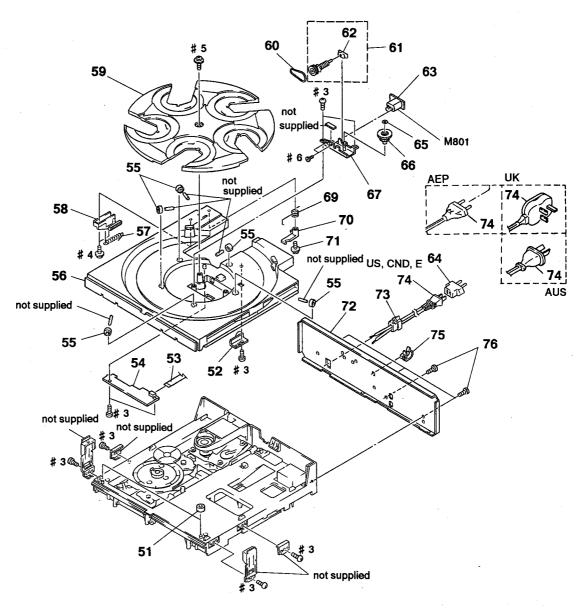
Remark

CND : Canadian model
 AUS : Australian model

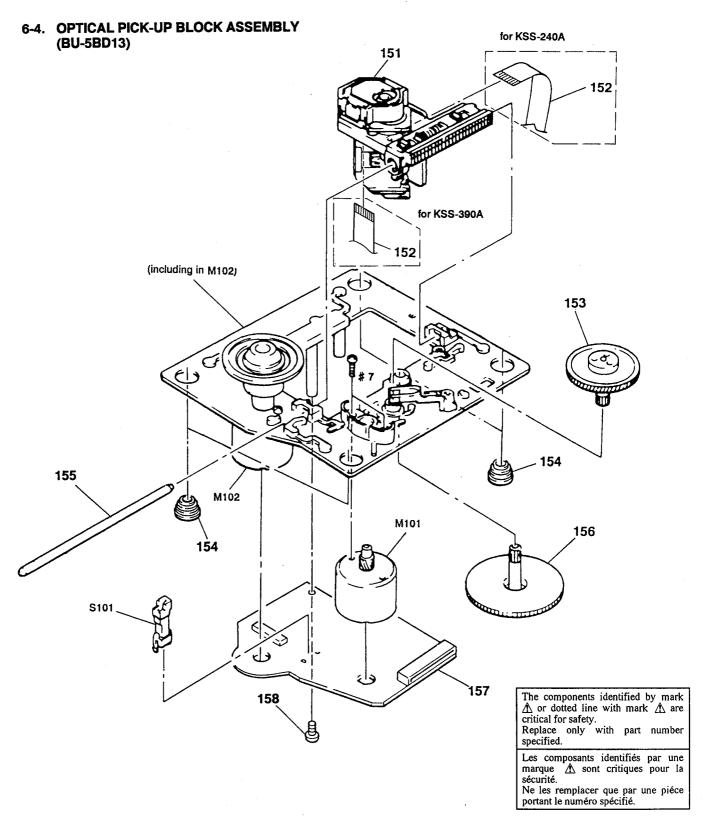


Ref. No. Remark Ref. No. Part No. Description 4-950-189-01 KNOB (A) (VOL)(C335) 4-957-557-01 PANEL, LOADING (C335) 4-957-557-11 PANEL, LOADING (C235) 4-933-601-01 FOOT 4-953-601-1 FOOT 1-647-544-11 HEADPHONE BOARD (C335) 4-951-620-01 SCREW (2.6X8), +BVTP 1-751-054-11 WIRE (FLAT TYPE) (10 CORE) 11 * 3 4-957-548-01 PLATE (FL), INDICATION (C335) 4-957-548-11 PLATE (FL), INDICATION (C235) 4-922-921-01 BUTTON (POWER) 1-647-542-11 POWER SW BOARD 3-704-366-01 SCREW (CASE) (M3X8) 5 12 1-647-543-11 10 KEY BOARD A-4649-651-A DISPLAY BOARD, COMPLETE 1-751-053-11 WIRE (FLAT TYPE) (33 CORE) X-4943-506-1 PANEL ASSY, FRONT (C335:US, CND) X-4943-507-1 PANEL ASSY, FRONT (C335:AEP, UK, E) 12 13 14 4-944-153-01 CASE 3-703-685-21 SCREW (+BV 3X8) 1-517-164-11 INDICATOR TUBE, FLUORESCENT * 16 X-4943-510-1 PANEL ASSY, FRONT (C235:US, CND) X-4943-511-1 PANEL ASSY, FRONT (C235:AEP, AUS) 9 FL701

6-2. BACK PANEL AND DISC TABLE ASSEMBLIES



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51 52 53 * 54 55	1-751-052-11	BRACKET (ROLLER D) ASSY WIRE (FLAT TYPE) (6 CORE) SENSOR BOARD		71 * 72 * 72 * 72 * 72	4-957-560-01 4-957-560-11 4-957-560-21	SCREW (+PTPWH 2.6X20) PANEL, BACK (C335:US, CND) PANEL, BACK (C335:AEP) PANEL, BACK (C335:E) PANEL, BACK (C235:AUS)	
* 56 57 58 59 60	4-957-294-01 4-957-292-01	TABLE (A), DISC SPRING (D.T), TENSION SLIDER (RACK) TABLE (B), DISC BELT (RM)		* 72 * 72 * 72 * 73 * 73	4-957-560-51 4-957-560-61 3-703-244-00	PANEL, BACK (C335:UK) PANEL, BACK (C235:US, CND) PANEL, BACK (C235:AEP) BUSHING (2104), CORD (EXCEPT FOR E) BUSHING (S) (4516), CORD (E))
61 62 63 64 65	4-957-278-01 1-647-364-11	GEAR (ROTARY A) ASSY BEARING (ROTARY A) TABLE MOTOR BOARD ADAPTER, CONVERSION 2P (C335:E) WASHER		74 74 74 74	1-590-836-11 1-696-027-11 1-696-571-11	CORD, POWER (AEP) CORD, POWER (US, CND) CORD, POWER (E) CORD, POWER (UK)	
66 67 69 70	X-4943-477-1 4-957-293-01	GEAR (LOTARY B) BRACKET (RM) ASSY SPRING (RACK RELEASE) LEVER (RACK RELEASE)		74 * 75 76 M801	4-949-235-01 3-704-515-21	CORD, POWER (AUS) HOOK SCREW (BY/RING) MOTOR ASSY, ROTARY (TABLE)	



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
↑151 ↑151 152 152 153 154 155	8-848-281-11 1-575-001-11 1-647-341-11 4-917-567-01 4-951-940-01	DEVICE, OPTICAL KSS-240A DEVICE, OPTICAL KSS-390A WIRE, FLAT TYPE (12 CORE) (for KSS-PC BOARD, FLEXIBLE(for KSS-390A) GEAR (M) INSULATOR (BU) SHAFT, SLED	-240A)	156 * 157 158 M101 M102 S101	A-4649-610-A 4-951-620-01 X-4917-504-1 X-4917-523-3	GEAR (P), FLATNESS BD BOARD, COMPLETE SCREW (2.6X8), +BVTP MOTOR ASSY (SLED) BASE (OUTSERT) ASSY (SPINDLE MOTOR) SWITCH, LEAF	

SECTION 7 ELECTRICAL PARTS LIST

NOTE:

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 \triangle sont critiques pour la sécurité.

Ne les remplacer que par une piéce portant le numéro spécifié.

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

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- · -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS All resistors are in ohms METAL: Metal-film resistor

METAL OXIDE: Metal Oxide-film resistor F: nonflammable

· Color Indication of Appearance Parts Example: KNOB, BALANCE (WHITE) ... (RED) Parts color Cabinet's color

• CND : Canadian model

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

• SEMICONDUCTORS In each case, u: μ , for example: uA...: μ A..., uPA...: μ PA..., uPB...: μ PB..., uPC...: μ PC..., uPD...: *μ* PD...

 CAPACITORS $uF : \mu F$

 COILS uH: μH

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

<u> </u>				ND : Can US : Aus											
Ref. No.	Part No.	Description	• 7	COS . Aus	uanan		Dof No	Part No.	Descript	tion			e	Domoni.	
Rel. No.	rait no.	Description				Remark	Ref. No.	Part No.	Descript	LION			<u> </u>	Remark	
*	1-647-543-11	10 KEY BOARD					******	*******	******	******	*****	*****	*****	*****	
		********					*	A-4649-651-A	DISPLAY	ROARD CO	MPI ETE	?			
		< CONNECTOR	>					11 1010 001 11		*******					
ONGEL	1 750 000 11	COMPORAD D	DO /T TOIM	. AMOT E) 1	AD.				4 CONTRID	OTTOD \					
CN751	1-750-228-11	CONNECTOR, F.	rC(LIGHI	ANGLE) I	UP				< CONNEC	CTOR >					
		< RESISTOR >					CN710	1-750-237-21	CONNECTO	OR, FFC(LI	GHT AN	(GLE) 33	P		
R751	1-249-418-11	CARBON	1. 2K 5	5% 1/4W	F				< INDIC	ATOR TUBE	>				
R752	1-247-836-11	CARBON	1.6K 5	% 1/4W	7										
R753	1-249-421-11	CARBON	2. 2K 5	% 1/4W	F		FL701	1-517-164-11	INDICATO	OR TUBE, F	LUORES	CENT			
R754	1-249-423-11	CARBON	3. 3K 5		F		-								
R755	1-249-426-11	CARBON	5. 6K 5	5% 1/4W	7				< RESIS	TOR >					
R756	1-247-856-00	CARBON	11K 5	% 1/4W	7		R711	1-249-418-11	CARBON	1. 2K	5%	1/4W	F		
R757	1-249-435-11			5% 1/4W			R712	1-247-836-11	CARBON	1. 6K	5%	1/4W			
R758	1-249-418-11	CARBON	1. 2K 5	5% 1/4W	F			1-249-421-11			5%	1/4W			
R759	1-247-836-11		1.6K 5	-				1-249-423-11			5%	1/4W	F		
R760	1-249-421-11	CARBON	2. 2K 5	5% 1/4W	F		R715	1-249-426-11	CARBON	5. 6K	5%	1/4W			
R761	1-249-423-11	CARBON	3. 3K 5	5% 1/4W	F		R716	1-247-856-00	CARBON	11K	5%	1/4₩			
R762	1-249-426-11	*	5.6K 5	5% 1/4W	7		R717	1-249-435-11	CARBON	33K		1/4W			
R763	1-247-856-00			5% 1/4W			R718	1-249-418-11	CARBON	1. 2K	5%	1/4W	F		
R764	1-249-435-11			5% 1/4W											
R765	1-249-418-11	CARBON	1. 2K 5	5% 1/4W	F				< SWITC	H >					
R766	1-247-836-11	CARBON	1.6K 5	5% 1/4W	7			1-554-303-21				ANGE)			
	,							1-554-303-21							
		< SWITCH >						1-554-303-21							
			(٠.			1-554-303-21							
S751	1-554-303-21			ik Search	1)		S715	1-554-303-21	SWITCH,	TACTILE ((₩)				
S752		SWITCH, TACT					0716	1 554 000 01	OWINGI	MIOMITE A	.				
S753		SWITCH, TACT						1-554-303-21)WTD)			
S754		SWITCH, TACT					S717)n)		
S755	1-554-505-21	SWITCH, TACT	ILE (4)				S718	1-554-303-21				EN/CLUS)E)		
S756	1 554 202 21	SWITCH, TACT	לוף (כ)				S719 S720	1-554-303-21							
S757		SWITCH, TACT		(T)			3120	1-554-303-21	Switten,	IACIILE ()				
S758		SWITCH, TACT						******		********					
S759	1-554-303-21	SWITCH, TACT	TES (CUE	ኤል <i>)</i> [ተ/ተ፤ ዘ ሮ ፤	SYDE)		*******		*****	********	*****	*****	·****	*****	
S760		SWITCH, TACT	/->	11/11865 1	(שעהי		*	1-647-544-11	HEVIDAN	ME BUYDD 1	C32E /	on 1)			
5100								1 04: 544 11		********					
S761		SWITCH, TACT							_						
S762		SWITCH, TACT							< CAPAC	ITOR >					
S763		SWITCH, TACT									_				
S764		SWITCH, TACT					C701						50 V		
S765	1-554-303-21	SWITCH, TACT	ILE (>10	J)			C702	1-162-290-31					50V		
S766	1_554.909.91	ראיד נויידושים	יווף (כיו	240)			C703	1-164-159-11	CERAMIC	0. 10	IL.	;	50V		
		. SWITCH, TACT . SWITCH, TACT					1								
S767 S768		. SWITCH, TACT			`		ŀ								
2100	1-554-505-41	. ORLICH, IACI	Tro (MOS	DIC OCHIN)	,	— 2	25 —								

HEADPHONE LOADING MOTOR MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description				Remark
		< JACK >				C503 C504	1-124-994-11 1-124-994-11		100uF 100uF	20% 20%	10V 10V	
J701	1-750-162-41	JACK (LARGE 1	TYPE) (PHO	ONES)			1 104 005 11	DI DOM	450 B	000/	1077	
		< RESISTOR >				C505 C506	1-124-997-11 1-161-494-00		470uF 0. 022uF	20%	10V 25V	
		\ MIDISION >				C507	1-126-022-11		47uF	20%	16V	
	1-249-402-11		56 5%			C508	1-126-788-91		22uF	20%	25V	
R702	1-249-402-11	CARBON	56 5%	1/4	W F	C509	1-126-786-11	ELECT	47uF	20%	16V	
		< VARIABLE RE	ESISTOR >	•		C521 C522	1-162-282-31 1-162-282-31		100PF 100PF	10% 10%	50V 50V	
RV701	1-223-359-11	RES, VAR, CAF	RBON 1K/1	(PHO	NE LEVEL)	C522	1-102-202-31		0. 0012uF		50V	
		, , , ,	, ,	` -	,	C524	1-124-994-11		100uF	20%	10V	
*****	******	******	*******	*****	*******	C525	1-106-359-00	MYLAR	4700PF	5%	200V	
*	1-647-363-11	LOADING MOTOR	R BOARD			C531	1-124-994-11	ELECT	100uF	20%	10V	
·	- *** ***	******				C532	1-130-467-00		470PF	5%	50V	
						C551	1-126-024-11	ELECT	220uF	20%		(C335)
******	********	*********	*******	*****	*******	C552	1-126-024-11		220uF	20%		(C335)
*	A 4640 656 A	MAIN BOARD, (COMDITETE	(C00E .1	HC CMD)	C571	1-162-282-31	CERAMIC	100PF	10%	50V	
•		********		•		C572	1-162-282-31	CEDANIC	100PF	10%	50V	
						C572	1-130-472-00		0. 0012uF		50V	
*	A-4649-657-A	MAIN BOARD, (COMPLETE	(C235:	AEP, AUS)	C574	1-124-994-11		100uF	20%	10V	
		********	******	*****	******	C575	1-106-359-00		4700PF	5%	200V	
	1 1010 010 1	MATN DOADD /	COMPLETE	(0005.1	IIO OND)	C581	1-124-994-11	ELECT	100uF	20%	107	
*	A-4049-049-A	MAIN BOARD, (•	C582	1-130-467-00	MYLAR	470PF	5%	50 V	
*	A-4649-654-A	MAIN BOARD, (COMPLETE	(C335:	AEP, UK)			< CONNECTOR	>			
		********	******	*****	*****							
	A 4640 655 A	WATE BOARD /	COMDI PTP	/C22E.1	D)		1-573-047-11					
* .	A-4049-000-A	MAIN BOARD, (•	•		1-750-236-11 1-750-237-11					
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			••		1-750-237-11					
	7-685-871-01	SCREW +BVTT	3X6 (S))			1-695-006-11					
											٠	
		< CAPACITOR :	>				1-750-223-11 1-568-941-11)6P	
C201	1-124-887-00	ÉLECT	3300uF	20%	16V	+ CNOO1	1-200-341-11	FIN, CONNEC	.un ar (Ca	33 <i>)</i>		
C202	1-124-360-00		1000uF	20%	16V		•	< DIODE >				
C203	1-124-910-11	ELECT	47uF	20%	50 V							
	1-126-163-11		4. 7uF	20%	50V	D201		DIODE 11ES				
C205	1-126-163-11	ELECT	4. 7uF	20%	50V	D202	8-719-200-82					
C206	1-124-997-11	EI ECT	470uF	20%	10V	D203 D204	8-719-200-82 8-719-200-82					
C207	1-124-337-11		220uF	20%	16V	D204	8-719-200-82					
C208	1-126-059-11		10uF	20%	50V	5200	0 110 100 01	2102	-			
C209	1-124-572-11	ELECT	100uF	20%	63V	D206	8-719-110-13		1ES-B2			
C210	1-161-494-00	CERAMIC	0. 022uF		25V	D207	8-719-200-82		S2 (C235:A			
6401	1 100 000	DI DOM	47 F	000	1.077	D208	8-719-200-82	-	S2 (C235:A	EP, AUS	C335	: AEP, UK)
C401	1-126-022-11		47uF	20%	16V	D451	8-719-012-99		3. 2BSA-TP			
C402 C403	1-161-494-00 1-161-494-00		0. 022uF 0. 022uF		25V 25V	D451	8-719-109-92	טעא מעטזע.	2ES-B1			
C403	1-161-494-00		0. 022ur 0. 01uF	20%	16V	D451	8-719-947-24	DIODE MTZ.	J-T-72-6. 2	:A		
C405	1-162-306-11		0. 01uF	20%	16V	D501	8-719-987-63			·-•		
	ů.											
C451	1-126-012-11		470uF	20%	16V	l ·		< IC >				
C501 C502	1-126-012-11 1-126-012-11		470uF 470uF	20% 20%	16V 16V	10201	8-759-061-65	IC 145609				
C304	1 140-014-11	PPICT	2 (VUL	<i>4</i> ∪ <i>1</i> 0	101	1 10201	0 100-001-00	10 PV9007				

	Ref. No.	Part No.	Docar	ription					Remark	Ref. No.	Pont No	Description					Damanie
	Rel. No.	Tart No.	Desci	TPUTOII					Memai K	Ret. No.	Part No.	Description					Remark
	IC202	8-759-605-00		M5F78M07	7					R453	1-247-876-11		75K	5%	1/4W		
	IC203 IC401	8-759-633-42 8-752-843-25		M5293L CXP82316	s_0200					R454	1-247-876-11	CARBON	75K	5%	1/4W		
	IC451	8-759-172-31		BA6191	0206	1				R456	1-249-425-11	CARBON	4. 7K	5%	1/4W	F	
										R457	1-247-840-00		2. 4K	5%	1/4W		
		8-759-061-66		LA9215	(0005	•				R458	1-247-828-11		750	5%	1/4W		
	10551	8-759-634-51	IC	M5218AP	(0335)				R459 R501	1-249-418-11 1-249-422-11		1. 2K 2. 7K	5% 5%	1/4W 1/4W		
			< JA0	CK >						1.001	1 210 100 11	CARLDON	2. (1)	JA	1/21	r	
										R521	1-247-852-11		7. 5K		1/4₩		
	J501	1-750-679-11	JACK,	, PIN 2P	(LINE	OUT)				R522 R523	1-247-864-11 1-247-852-11		24K	5%	1/4₩		
			< CO	IL >						R523	1-247-864-11		7.5K 24K	5% 5%	1/4W 1/4W		
				- - -						R525	1-249-419-11		1. 5K		1/4W	F	
	L501	1-412-473-21			0u					2500							
	L551 L55 2	1-412-473-21 1-412-473-21				н (С3 н (С3				R526 R527	1-249-419-11 1-249-429-11			5% 5%	1/4W	F	
	L552	1-412-473-21				н (СЗ				R531	1-249-429-11		10K 10K	5%	1/4W 1/4W		
					•	(00				R532	1-249-417-11			5%	1/4W	F	
			< TRA	ANSISTOR	>					R551	1-249-405-11	CARBON	100	5%	1/4W	F	
	Q201	8-729-119-76	TRANG	GOT212	25411	75-HF	r r								((335)	
	Q401	8-729-900-89			DTC14		L)			R552	1-249-405-11	CARBON	100	5%	1/4W	F	
	Q402	8-729-620-05	TRANS		2SC26											335)	
٠	Q501	8-729-900-89			DTC14					R571	1-247-852-11		7. 5K		1/4W		
	Q502	8-729-900-61	IKAN	51510R	DTA11	4ES				R572 R573	1-247-864-11 1-247-852-11		24K 7. 5K	5% 5%	1/4W 1/4W		
	Q503	8-729-900-61	TRANS	SISTOR	DTA11	4ES				R574	1-247-864-11			5%	1/4W		
	Q504	8-729-900-80	TRANS	SISTOR	DTC11	4ES									·		
			/ DEC	OTOTOD \						R575	1-249-419-11		1. 5K		1/4W		
			· KES	SISTOR >						R576 R577	1-249-419-11 1-249-429-11		1. 5K 10K	5% 5%	1/4W 1/4W	F	
	R201	1-249-429-11			10K	5%	1/4W			R581	1-249-429-11			5%	1/4W		
	R202	1-249-438-11			56K	5%	1/4₩			R582	1-249-417-11	CARBON	1K	5%	1/4W	F	
	R203 R401	1-249-435-11 1-249-428-11			33K 8. 2K	5% 5%	1/4W 1/4W	T.				< SWITCH >					
	R402	1-249-428-11			8. 2K		1/4W					\ Switch >					
							-, -,			<u></u> \$201	1-572-675-11	SWITCH, POWER	R VOLTA	AGE C	HANGE	(C33	5:E)
	R403	1-249-428-11			8. 2K		1/4W					/ WIDDAMOD					
	R404 R405	1-249-428-11 1-249-428-11			8. 2K 8. 2K		1/4W 1/4W					< VIBRATOR >					
	R406	1-249-428-11			8. 2K		1/4\			X401	1-579-175-11	VIBRATOR, CE	RAMIC ((10MH	iz)		
	R407	1-249-425-11	CARBO	ON	4. 7K	5%	1/4₩					·		•	,		
	D400	1 940 495 11	CADDO	NAT.	4 77	re/	1 / 417	_		******	*********	*********	*****	****	*****	****	*****
	R408 R409	1-249-425-11 1-249-425-11			4. 7K 4. 7K		1/4W 1/4W			*	A-4649-610-A	BD BOARD, CO	PI PTP				
	R410	1-249-429-11			10K	5%	1/4W	•		,	n 1010 010 n	********		ķ .			
	R411	1-249-429-11	CARBO)N	10K	5%	1/4₩										
	R412	1-249-441-11	CARBO	N	100K	5%	1/4₩					< CAPACITOR :	•				
	R413	1-249-429-11	CARBO)N	10K	5%	1/4W			C101	1-163-005-11	CERAMIC CHIP	470PF	,	10%	50V	
	R414	1-249-430-11			12K	5%	1/4W			C102	1-163-038-00	CERAMIC CHIP	0. 1uF	7		25V	
	R415	1-249-417-11			1K	5%	1/4₩			C103		CERAMIC CHIP			10%	50 V	
	R421 R422	1-249-428-11 1-249-428-11			8. 2K 8. 2K		1/4W			C105 C106		TANTALUM CHIE		ľ		16V	
	R424	1-249-420-11			o. zr. 12K	5% 5%	1/4W 1/4W	r		C100	1-104-940-11	CERAMIC CHIP	IUF			16V	
							-, -			C107		CERAMIC CHIP				16 V	
	R426	1-249-428-11			8. 2K		1/4W	F		C108		CERAMIC CHIP				50 V	
	R451 R452	1-247-876-11 1-247-876-11			75K 75K	5% 5%	1/4W 1/4W			C109 C110	1-163-011-11	CERAMIC CHIP CERAMIC CHIP	0.001	5uF	10%	50V	
	NTUU	1 241 010 11	CHILDU	A1	IOU	J/B	1/4#		ı	0110	1 100-011-00	CERTAINIC CHIP	0. 004	ıur	37 6	50V	

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 piéce portant le numéro spécifié.

BD POWER SW

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
C111	1-163-251-11	CERAMIC CHIP	100PF	5%	50V				< RESISTOR >				
C112		CERAMIC CHIP			25V		R101	1-216-077-00	METAL CUID	15K	5%	1/10W	
C113 C123		CERAMIC CHIP			25V 50V		R101	1-216-077-00		100K		1/10W	
C124		CERAMIC CHIP			25V		R103	1-216-077-00		15K	5%	1/10W	
C131		CERAMIC CHIP			25V		R104	1-216-085-00	METAL CHIP	33K	5%	1/10W	
							R105	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W	
C132		CERAMIC CHIP			25V		R106	1-216-061-00	METAL CUID	3. 3K	E 9 ⁄	1/10W	•
C133 C153		CERAMIC CHIP			25V 25V		R107	1-216-061-00		3. 3K		1/10W	
C159		CERAMIC CHIP		10%	50V		R108	1-216-073-00		10K	5%	1/10W	
C161	1-163-038-00	CERAMIC CHIP	0. 1uF		25V		R109	1-216-121-00		1M	5%	1/10W	
							R110	1-216-025-00	METAL CHIP	100	5%	1/10W	
C181		CERAMIC CHIP			25V 25V		R112	1-216-049-00	METAL CHIP	1K	5%	1/10W	
C182 C183		CERAMIC CHIP		10%	10V		R122	1-216-295-00		0	5%	1/10W	
C184		TANTALUM CHIP		10%	10V		R123	1-216-073-00		10K	5%	1/10W	
C185		TANTALUM CHIP		10%	10V		R124	1-216-097-00	METAL CHIP	100K	5%	1/10W	
							R125	1-216-049-00	METAL CHIP	1K	5%	1/10W	
C186		CERAMIC CHIP			25V		D196	1 916 040 00	METAL CULD	117	F0/	1 /100	
C187 C188		CERAMIC CHIP			25V 25V		R126 R127	1-216-049-00 1-216-049-00		1K 1K	5% 5%	1/10W 1/10W	
C188		CERAMIC CHIP			50V		R131	1-216-037-00		330	5%	1/10W	
C192		CERAMIC CHIP			50V		R158	1-216-111-00		390K	5%	1/10W	
							R159	1-216-101-00	METAL CHIP	150K	5%	1/10W	
C193		CERAMIC CHIP	220PF	5%	50V		D101	1 010 050 00	MDM 11 CHIED		F0 /	1 /1 0#	
C194 C195		CERAMIC CHIP		5%	50V 25V		R181 R182	1-216-053-00 1-216-080-00		1. 5K 20K	5% 5%	1/10\ 1/10\	
C195		CERAMIC CHIP		10%	50V		R183	1-216-080-00		20K	5%	1/10W	
C197		CERAMIC CHIP		10%	25V		R184	1-216-080-00		20K	5%	1/10W	
							R185	1-216-080-00	METAL CHIP	20K	5%	1/10W	
		< CONNECTOR >					D107	1 010 005 00	MDM AT CHIED	020	E4/	1 /1 OW	
+ CN101	1_500_075_11	SOCKET, CONNEC	CTOD (CMT	\ 26D			R187 R188	1-216-035-00 1-216-121-00		270 1M	5% 5%	1/10W 1/10W	
		SOCKET, CONNEC	•	•			R189		INDUCTOR, FER			1/10#	
011102	1 000 000 11	200121, 0011121	01011 (01111	,									
		< IC >							< SWITCH >				
	8-752-351-94						S101	1-572-085-11	SWITCH, LEAF	(LIMIT)		
	8-752-360-75 8-759-164-29		•	-390A)					< VIBRATOR >				
	8-752-355-45								< VIDICATOR >				
10100	0 102 000 10	10 01000000					X101	1-579-904-21	VIBRATOR, CRY	STAL (33. 8N	Mz)	
		< COIL >										•	
7 101	1 414 924 91	INDUCTOR, FERI	DITE DEAD				******	******	*********	*****	****	******	*****
L101 L102		INDUCTOR, FERI					*	1-647-542-11	POWER SW BOAR	eD.			
L103		INDUCTOR, FERI					•	- 011 012 11	********				
L104	1-216-001-00		10 5%		.O W								
L105	1-216-295-00	METAL CHIP	0 5%	1/1	.O W				< CAPACITOR >	•			
L106	1 1 1 1 92 1 91	INDUCTOR, FER	DITE BEAN				C731	1-161-494-00	CERAMIC	0. 022u	F	25V	
L106 L107		INDUCTOR, FER					0,31	1 101 174-00	CLIMITO	v. v22U	ı.	43₹	
L108		INDUCTOR, FER							< IC >				
							10791	0 741 100 40	TC CDV1610	EN			
							10131	0-141-100-46	IC SBX1610-	าอช			
									< RESISTOR >				
							R731	1-249-418-11	CARBON	1. 2K	5%	1/4W F	

POWER SW SENSOR

Ref. No.	Part No.	<u>Description</u>	Remark	Ref. No.	Part No. Description Remark
	1-247-836-11 1-249-421-11 1-249-423-11 1-249-426-11	CARBON 2. 2K 5% 1/4W F CARBON 3. 3K 5% 1/4W F		⚠ 151 ⚠ 151	8-848-144-11 DEVICE, OPTICAL KSS-240A 8-848-281-11 DEVICE, OPTICAL KSS-390A 1-575-001-11 WIRE, FLAT TYPE (12 CORE) (for KSS-240A)
R736 R737	1-247-856-00 1-249-421-11			152 M101 M102 M801 M802	1-647-341-11 PC BOARD, FLEXIBLE (for KSS-390A) X-4917-504-1 MOTOR ASSY (SLED) X-4917-523-3 BASE (OUTSERT) ASSY (SPINDLE MOTOR) A-4660-322-A MOTOR ASSY, ROTARY (TABLE) A-4604-834-A MOTOR ASSY, LOADING
S730 S731 S732 S733 S734	1-554-303-21 1-554-303-21 1-554-303-21	SWITCH, PUSH (POWER) SWITCH, TACTILE (DISC 1) SWITCH, TACTILE (DISC 2) SWITCH, TACTILE (DISC 3) SWITCH, TACTILE (DISC 4)		1	1-423-554-11 TRANSFORMER, POWER (AEP, AUS, UK)
S735 S736	1-554-303-21 1-554-303-21	SWITCH, TACTILE (DISC 5) SWITCH, TACTILE (REPEAT)		*******	ACCESSORIES & PACKING MATERIALS
S737 S738 S739	1-554-303-21	SWITCH, TACTILE (PROGRAM) SWITCH, TACTILE (SHUFFLE) SWITCH, TACTILE (CONTINUE)			1-467-123-11 REMOTE COMMANDER (RM-D335) (C335) 1-558-271-11 CORD, CONNECTION
******	*******	*************	*****		3-756-520-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (AEP, UK, E)
*	1-647-362-11	SENSOR BOARD		٠	3-756-520-21 MANUAL, INSTRUCTION (ENGLISH) (US, CND, AUS)
		< CONNECTOR >			3-756-520-31 MANUAL, INSTRUCTION (FRENCH) (CND) 3-756-520-41 MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP)
		PIN, CONNECTOR (PC BOARD) 2P SOCKET, CONNECTOR 6P			3-756-520-61 MANUAL, INSTRUCTION (DANISH, FINNISH, SWEDISH, ENGLISH) (AEP)
D801 D802	8-749-924-18 8-749-924-30	DIODE PHOTO SENSOR GP2S28		* * * *	4-944-110-01 CUSHION (FRONT) 4-944-111-01 CUSHION (REAR) 4-958-473-01 INDIVIDUAL CARTON (C235) 4-958-474-01 INDIVIDUAL CARTON (C335) 4-959-044-01 COVER, BATTERY (for RM-D335) (C335)
2001	1 040 410 11	< RESISTOR >		*****	***************************************
R801 R802	1-249-406-11	CARBON 120 5% 1/4W F			**************************************
******	******	***********	******	ļ	***********
5 8 53 64	1-751-053-11 1-751-052-11 1-569-007-11	MISCELLANEOUS ************ WIRE (FLAT TYPE) (10 CORE) WIRE (FLAT TYPE) (33 CORE) WIRE (FLAT TYPE) (6 CORE) ADAPTER, CONVERSION 2P (C335:E) CORD, POWER (AEP)		#1 #2 #3 #4 #5 #6 #7	7-685-647-79 SCREW, TAPPING 7-682-548-04 SCREW +BVTT 3X8 (S) 7-685-646-79 SCREW +BVTP 3X8 TYPE2 N-S 7-685-134-19 SCREW +PTPWH 2.6X8 (TYPE2) 7-685-648-79 SCREW (M3X12), TAPPING 7-621-772-00 SCREW +B 2X3 7-621-255-15 SCREW +P 2X3
<u>↑</u> 74 <u>↑</u> 74 <u>↑</u> 74 <u>↑</u> 74	1-590-836-11 1-696-027-11 1-696-571-11	CORD, POWER (US, CND) CORD, POWER (E) CORD, POWER (UK) CORD, POWER (AUS)			
115 * 122 * 124		ENCODER, ROTARY PC BOARD, FLEXIBLE MAGNET			·
				⚠ or do critical f	mponents identified by mark obted line with mark \triangle are for safety. e only with part number d. Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.