CDP-CE105

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model

Model Name Using Similar Mechanism	HCD-D670AV/N555AV
CD Mechanism type	CDM37-5BD19
Base Unit Type	BU-5BD19
Optical Pick-up type	KSS-213BA/F-NP

SPECIFICATIONS

Compact disc player

Laser Semiconductor laser (λ = 780 nm)
Emission duration: continuous

Laser output Max 44.6 µW*
* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up block with 7 mm aperture.

Frequency response 2 Hz to 20 kHz ± 1.0 dB

Signal-to-noise ratio More than 100dB

Dynamic range More than 96dB

Harmonic distortion Less than 0.01%

Channel separation More than 86dB

Output

	Jack type	Maximum output level	Load impedance
LINE OUT	Phono jacks	2 V (at 50 kilohms)	Over 10 kilohms

General

Power requirements

Where purchased	Power requirements
Europe and Singapore	220 V – 230 V AC, 50/60 Hz
USA, Canada	120 V AC, 60 Hz
E	110 V – 120 V or 220 V – 240 V AC, adjustable, 50/60 Hz
Australia	240V AC, 50Hz

Power consumption 10 W

Dimensions (approx.) (w/h/d) 430 × 135 × 400 mm (17 × 5 3/8 × 15 3/4 in.) incl. projecting parts

Mass (approx.) 4.5 kg (9 lbs 15 oz)

Supplied accessories

Audio cord (2 phono plugs – 2 phono plugs) (1)

Design and specifications are subject to change without notice.

MICROFILM

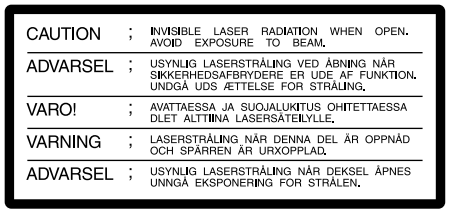
COMPACT DISC PLAYER

SONY®

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

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

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



This caution label is located inside the unit.

Notes on chip component replacement

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

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.

TABLE OF CONTEMTS

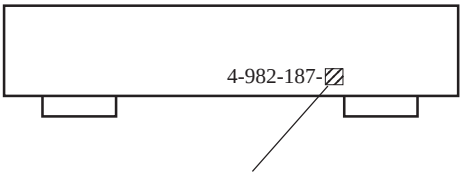
SAFETY-RELATED COMPONENT WARNING !!

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

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

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

MODEL IDENTIFICATION — BACK PANEL —



0☐: US model
1☐: Canadian model
2☐: Australian model
3☐: AEP, German model
5☐: UK model
7☐: E model
8☐: Singapore model

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

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.

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)

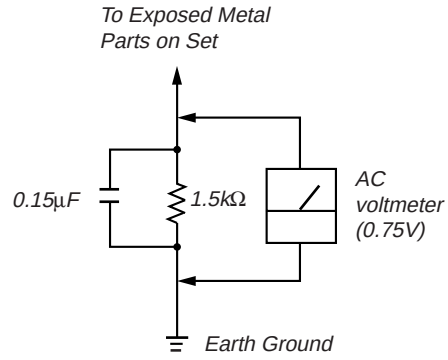
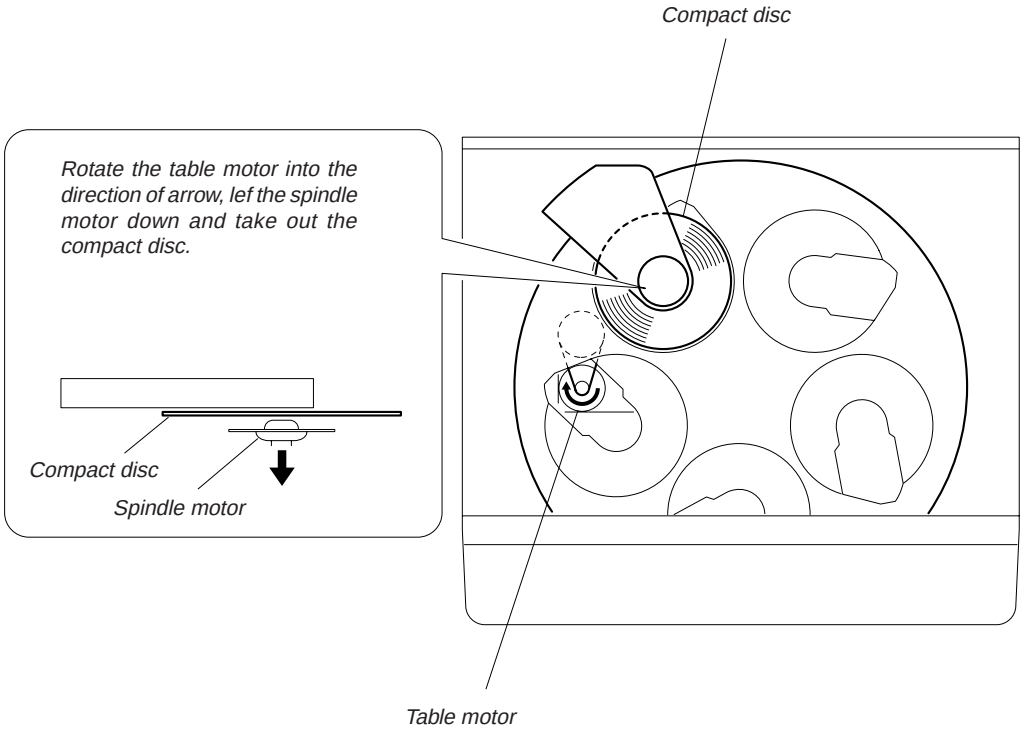


Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1
SERVICING NOTE

How to take out a compact disc when the power is turn OFF.



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

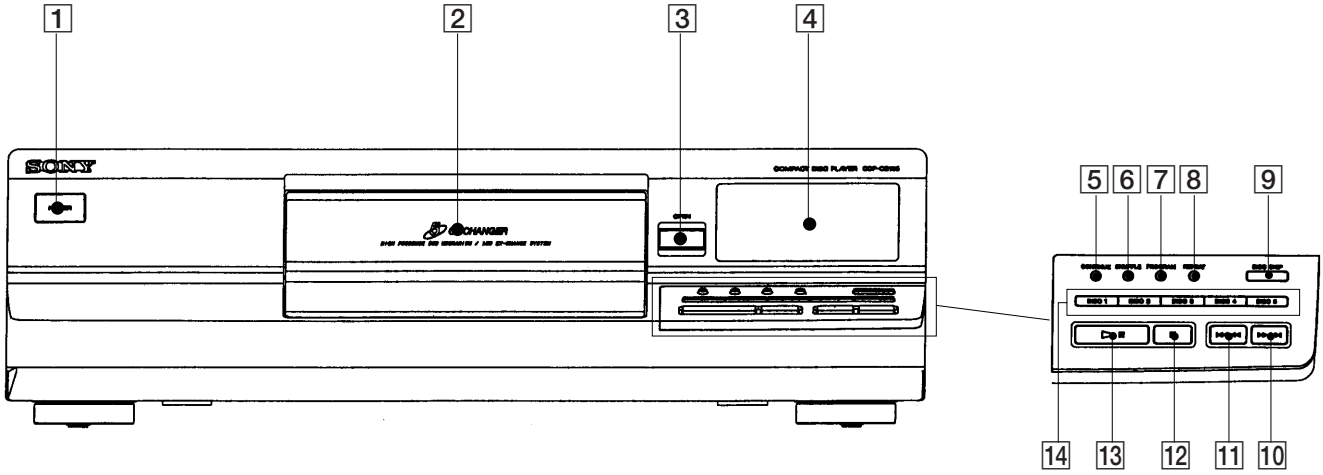
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the “S curve check” in “CD section adjustment” and check that the S curve waveform is output.

SECTION 2
GENERAL

LOCATION OF CONTROLS



1 POWER switch
2 Front cover
3 OPEN switch
4 Display window
5 CONTINUE button
6 SHUFFLE button
7 PROGRAM button
8 REPEAT button
9 DISC SKIP button
10 ▶▶ ▷▷| (manual search, AMS*) button
11 |◁◁ ◀◀ (manual search, AMS*) button
12 ■ (STOP) button
13 ▷ ❚❚ (play, pause) button
14 DISC 1-5 buttons

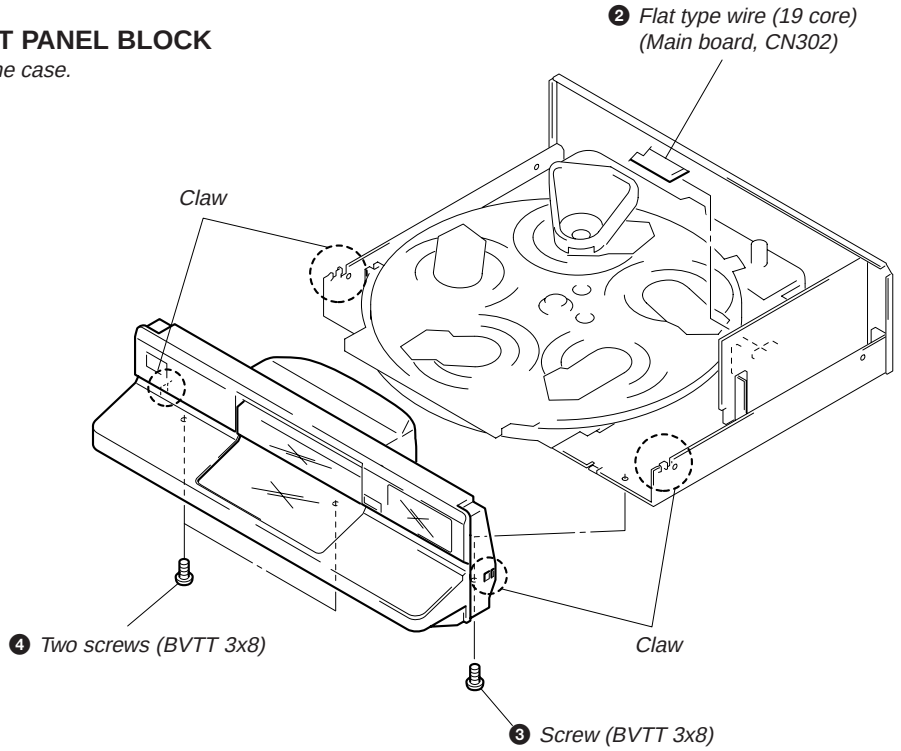
* AMS is the abbreviation for Automatic Music Sensor.

SECTION 3
DISASSEMBLY

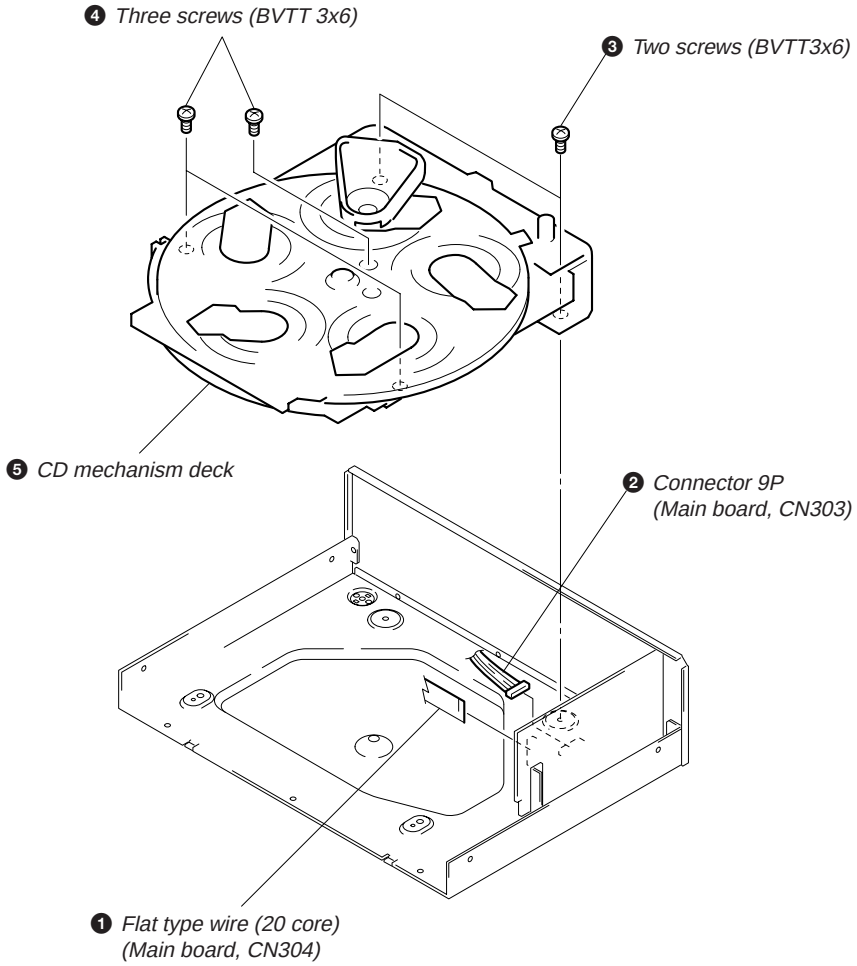
Note: Follow the disassembly procedure in the numerical order given.

3-1. FRONT PANEL BLOCK

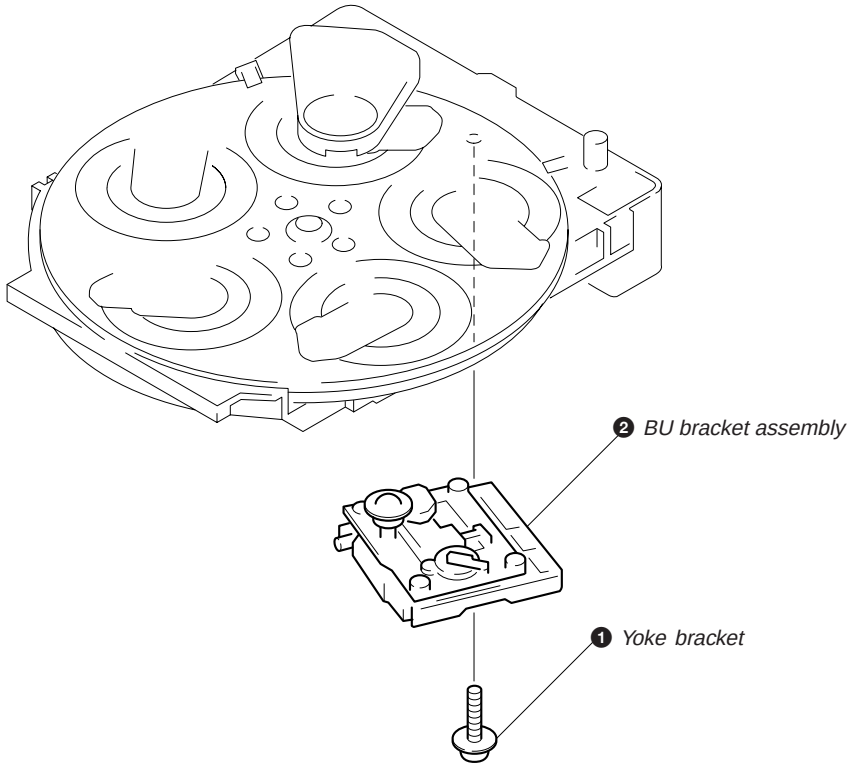
❶ *Remove the case.*



3-2. CD MECHANISM DECK

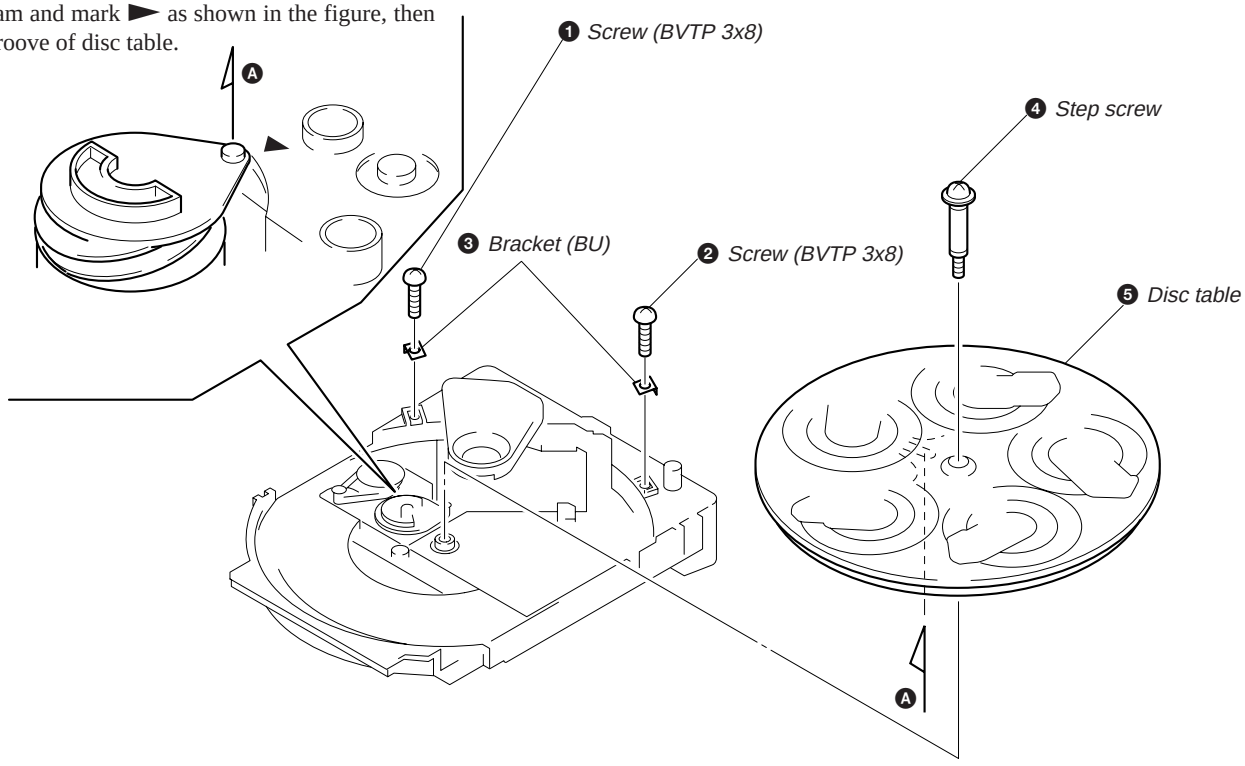


3-3. BU BRACKET ASSEMBLY



3-4. DISC TABLE

Note:
When the Disc table is installed, adjust the positions of Roller cam and mark ► as shown in the figure, then set to the groove of disc table.



SECTION 4
TEST MODE

4-1. AF MODE

The following checks can be performed in the AF mode, which is set by connecting the test point (AFJ) terminal on DISPLAY board to the Ground and turning on the power.

- **FL tube check**

  After all segments light up, when the ⏮◀◀ button is pressed, the following will be displayed. (Partial lighting 1)

(Partial lighting 1)

When the ▶▶⏭ button is pressed, the following will be displayed. (partial lighting 2)

(Partial lighting 2)

When the ■ button is pressed, all will light up again.

- **Key check**

  All buttons have corresponding button numbers. When a button is pressed, the counter will count up and display the button's number. However, the counter will only count to "14". It will not count for buttons already pressed once, but will display the button's number.

Display of counting *Display of button number*

Button	Button No. Displayed	Button	Button No. Displayed
▷ ⏸	07	DISC 4	18
■	All lit	DISC 5	17
⏮ ◀◀	Partial lighting 1	CONTINUE	13
▶▶ ⏭	Partial lighting 2	SHUFFLE	12
DISC 1	08	PROGRAM	11
DISC 2	09	REPEAT	19
DISC 3	10	DISC SKIP	20

4-2. ADJ MODE

The following operations are performed in the ADJ mode, which is set by connecting the test point (ADJ) terminal to the Ground and turning on the power.

- Servo related manual operations and measurement can be performed.
  (For details of operations, refer to Table of Key Operations in ADJ Mode.)

TABLE OF BUTTON OPERATIONS IN ADJ MODE

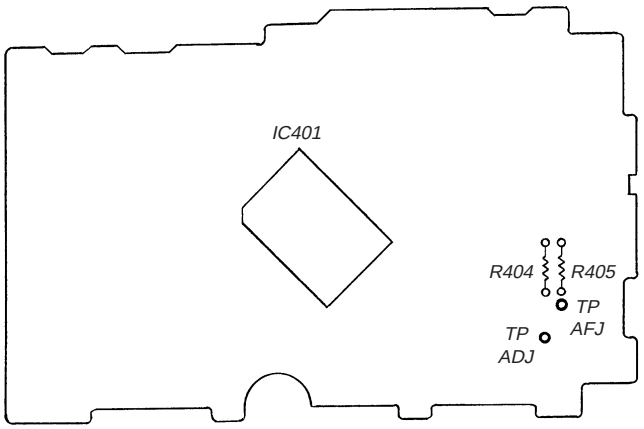
The functions of the number buttons are shown in the following table.

FUNCTIONS OF NUMBER BUTTONS

(Use the widely use remote commander with 20 keys.)

Button	Function
15	S curve check (in stop mode)
16	Tracking servo, sled servo off
17	Tracking servo, sled servo on
18	E-F balance indication
19	E-F balance indicati down
20	E-F balance indication up

[DISPLAY BOARD] — Conductor Side —

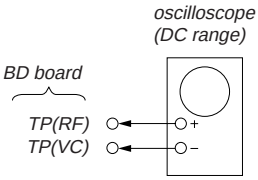


SECTION 5
ELECTRICAL BLOCK ADJUSTMENTS

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 10M impedance.
4. Clean the object lens by an applicatior with neutral detergent when the signal level is low than specified value with the following checks.
5. Adjust the focus bias adjustment when optical block is replaced.

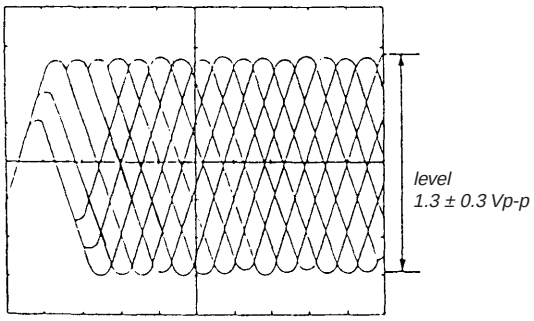
Focus Bias Adjustment



Procedure :

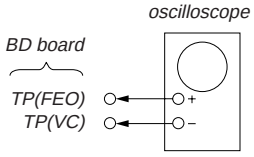
1. Connect oscilloscope to test point TP (RF). (Ground terminal : VC)
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Adjust RV101 so that the waveform is clear. (Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.)
5. After adjustment, check the RF signal level.

• RF signal
VOLT/DIV : 200 mV
TIME/DIV : 500 nS



S Curve Check

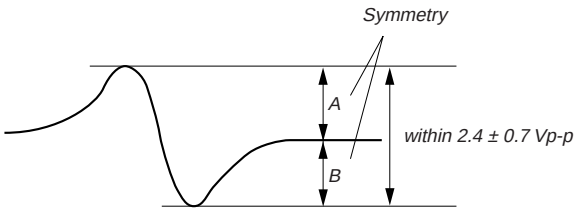
Note : Use the widely use remote commander with 20 keys for this check.



Procedure :

1. Connect oscilloscope to test point TP (FEO).
2. Connect between test point TP (ADJ) on DISPLAY board to Ground with a lead wire.
3. Turn Power switch on to set the ADJ mode.
4. Put disc (YEDS-18) in and set to the stop mode.
5. Press the "15" button and actuate the focus serach.
6. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2.4 ± 0.7 Vp-p.

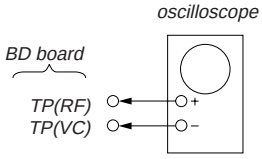
S-curve waveform



7. 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

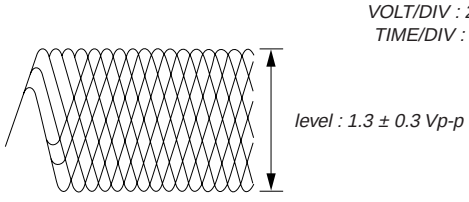


Procedure :

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

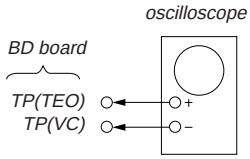
Note : Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

RF signal waveform



E-F Balance Check

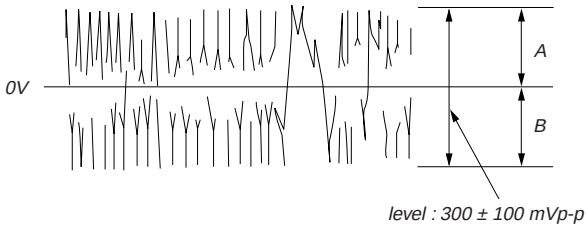
Note : Use the widely use remote commander with 20 keys for this check.



Procedure :

1. Connect test point TP (ADJ) on DISPLAY board to Ground with a lead wire.
2. Connect oscilloscope to test point TP (TEO).
3. Turn Power switch on to set the ADJ mode.
4. Put disc (YEDS-18) in and playback.
5. Press the “16” button. (The tracking servo and the sledding servo are turn off)
6. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0Vdc, and check this level.

Traverse waveform



Specified level : • $\frac{A-B}{2(A+B)}$ X 100=less than ± 7%

• A+B=300 ± 100 mVp-p

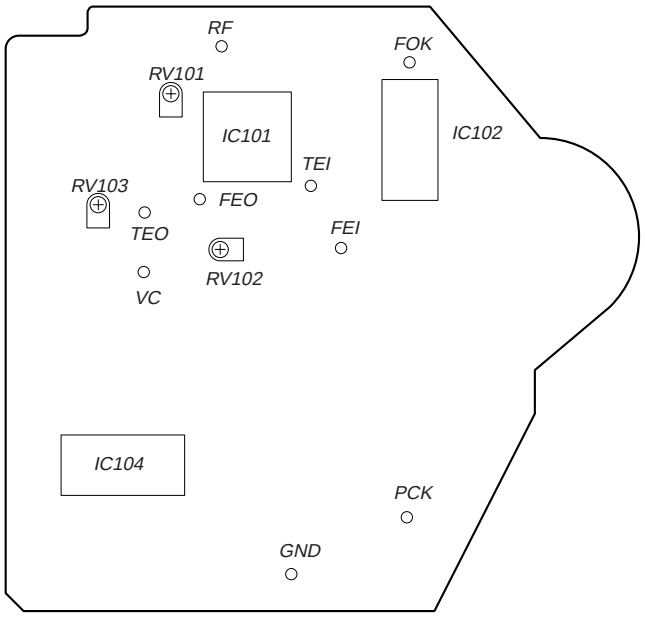
7. Remove the lead wire connected in step 1.

Focus/Tracking Gain Adjustment (RV102, RV103)

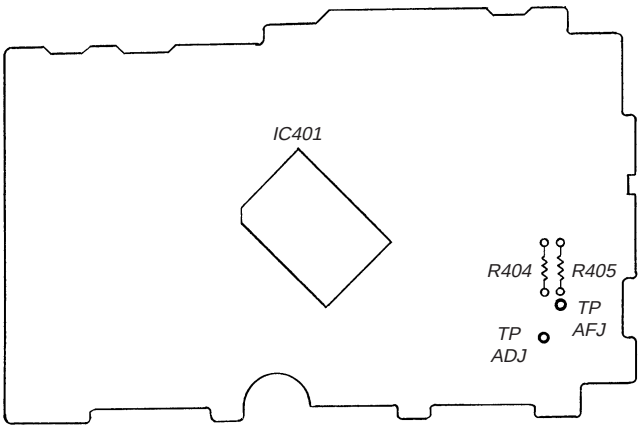
This gain has a margin, so even if it is slightly off.
There is no problem.
Therfore, do not perform this adjustment.
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Location

[BD BOARD] (Conductor Side)

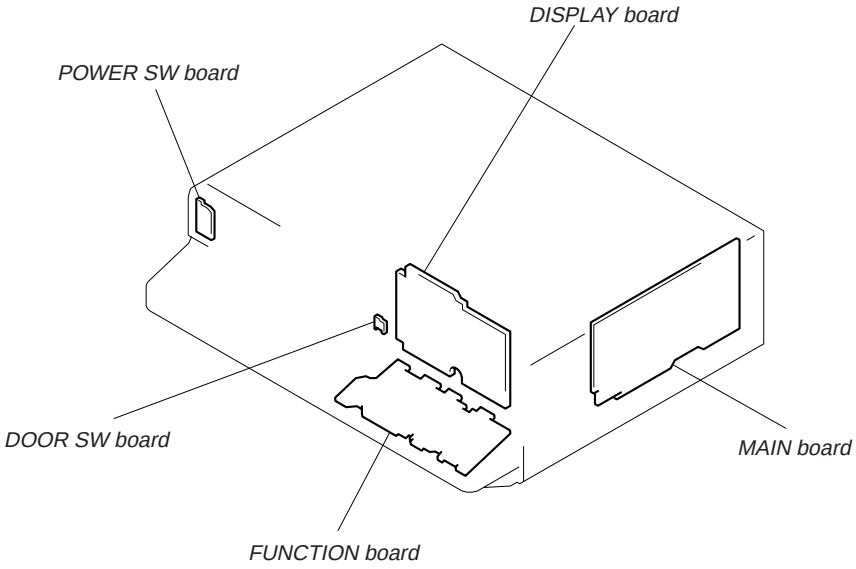


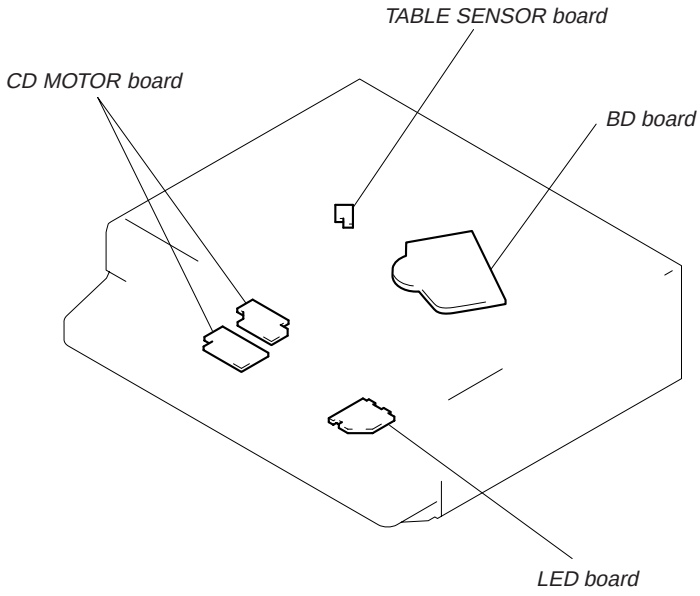
[DISPLAY BOARD] (Conductor Side)



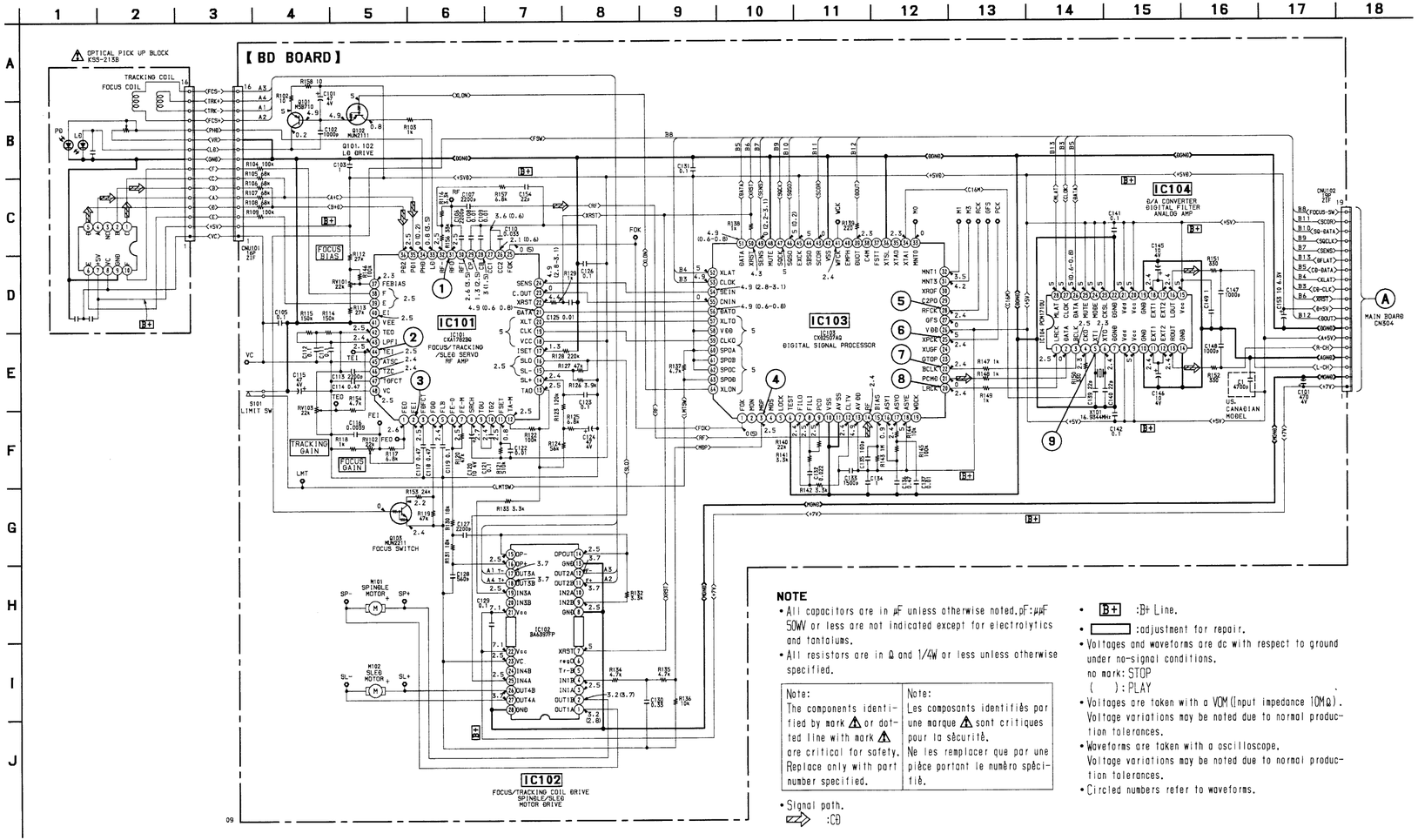
SECTION 6
DIAGRAMS

6-1. CIRCUIT BOARDS LOCATION





6-2. SCHEMATIC DIAGRAM — BD SECTION —



NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.

Note:	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 ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Signal path. ⇨ : CD
- B+ : B+ Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark: STOP
  ( ) : PLAY
- Voltages are taken with a VOM (Input impedance 10MΩ). 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.

- **Waveforms**

① IC101 ㉛ pin 1.3Vp-p PLAY

② IC101 ㊹ pin 8mVp-p 0.2ms/DIV

③ IC101 ② pin 20mVp-p 2ms/DIV

④ IC103 ③ pin 2.4Vp-p 7.5μsec PLAY

⑤ IC103 ㉘ pin 5.1mVp-p 137μsec

⑥ IC103 ㉕ pin 5.1Vp-p 232.7sec

⑦ IC103 ㉒ pin 5.1Vp-p 472.7nsec

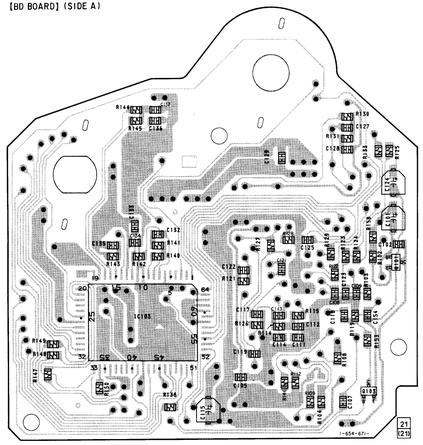
⑧ IC103 ⑳ pin 5.1Vp-p 23μsec

⑨ IC104 ⑤ pin 3Vp-p 16.9344MHz

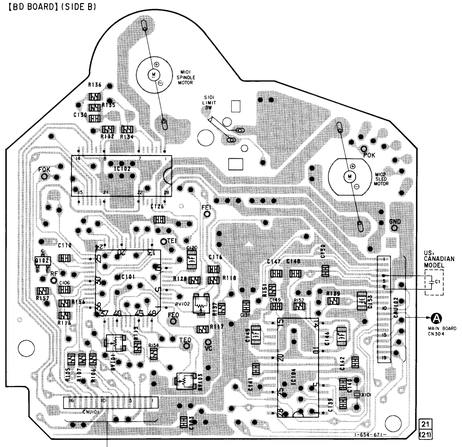
6-3. PRINTED WIRING BOARD — BD SECTION —

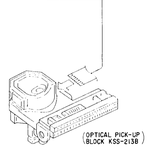
• See page 11 for Circuit Boards Location.

[BD BOARD] (SIDE A)



[BD BOARD] (SIDE B)





• Semiconductor Location

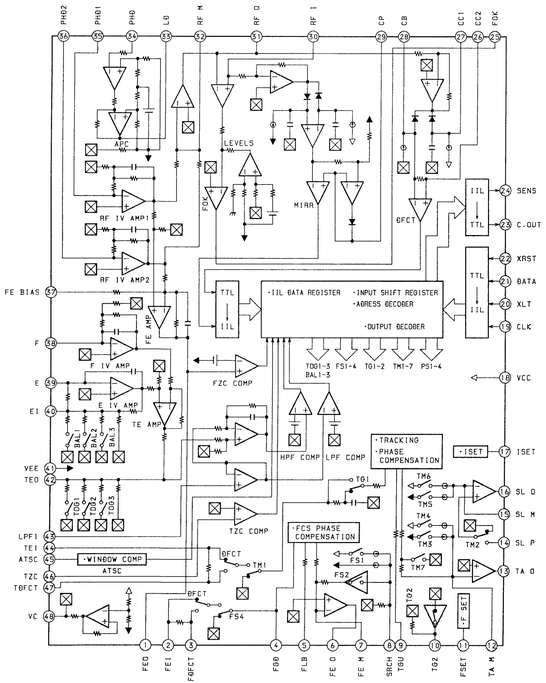
Ref. No.	Location
IC101	E-9
IC102	C-9
IC103	E-3
IC104	F-11
Q101	D-7
Q102	D-8
Q103	F-6

Note:

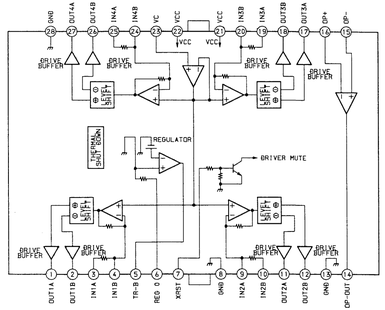
- ⟷ : parts extracted from the component side.
- ● : Through hole.
- ▒ : Pattern from the side which enable seeing. (The other layer's patterns are not indicated.)

• IC Block Diagrams

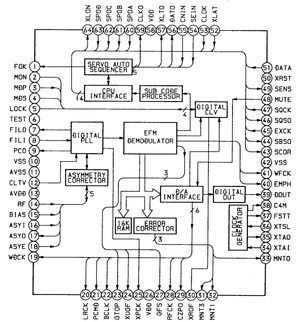
IC101 CXA1782BQ



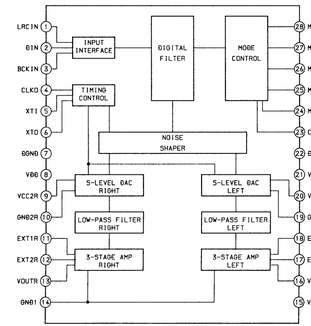
IC102 BA6397FP



IC103 CXD2507AQ



IC104 PCM1710U

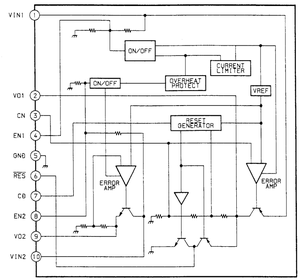


6-4. SCHEMATIC DIAGRAM — MAIN SECTION —

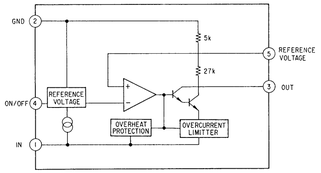
• See page 26 for IC Pin Function. (IC401)

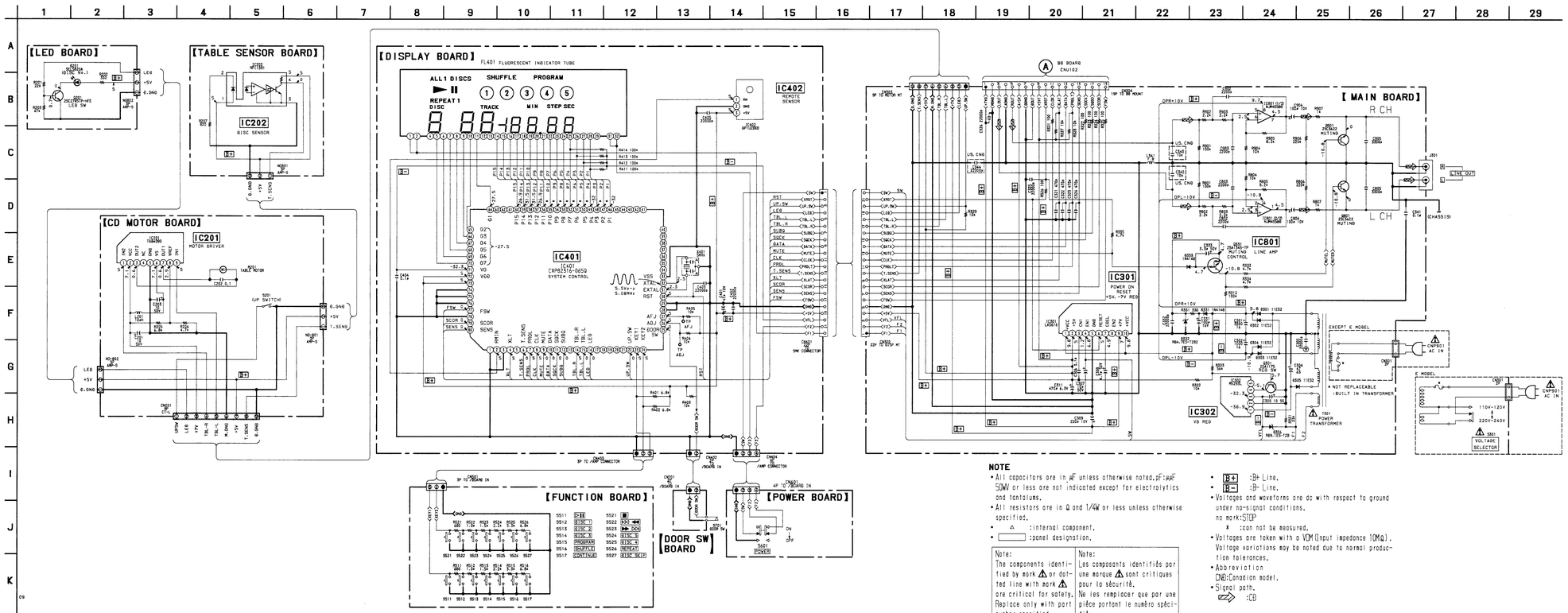
• IC Block Diagrams

IC301 LA5616



IC302 M5293L





NOTE

- All capacitors are in μF unless otherwise noted. pF: μF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

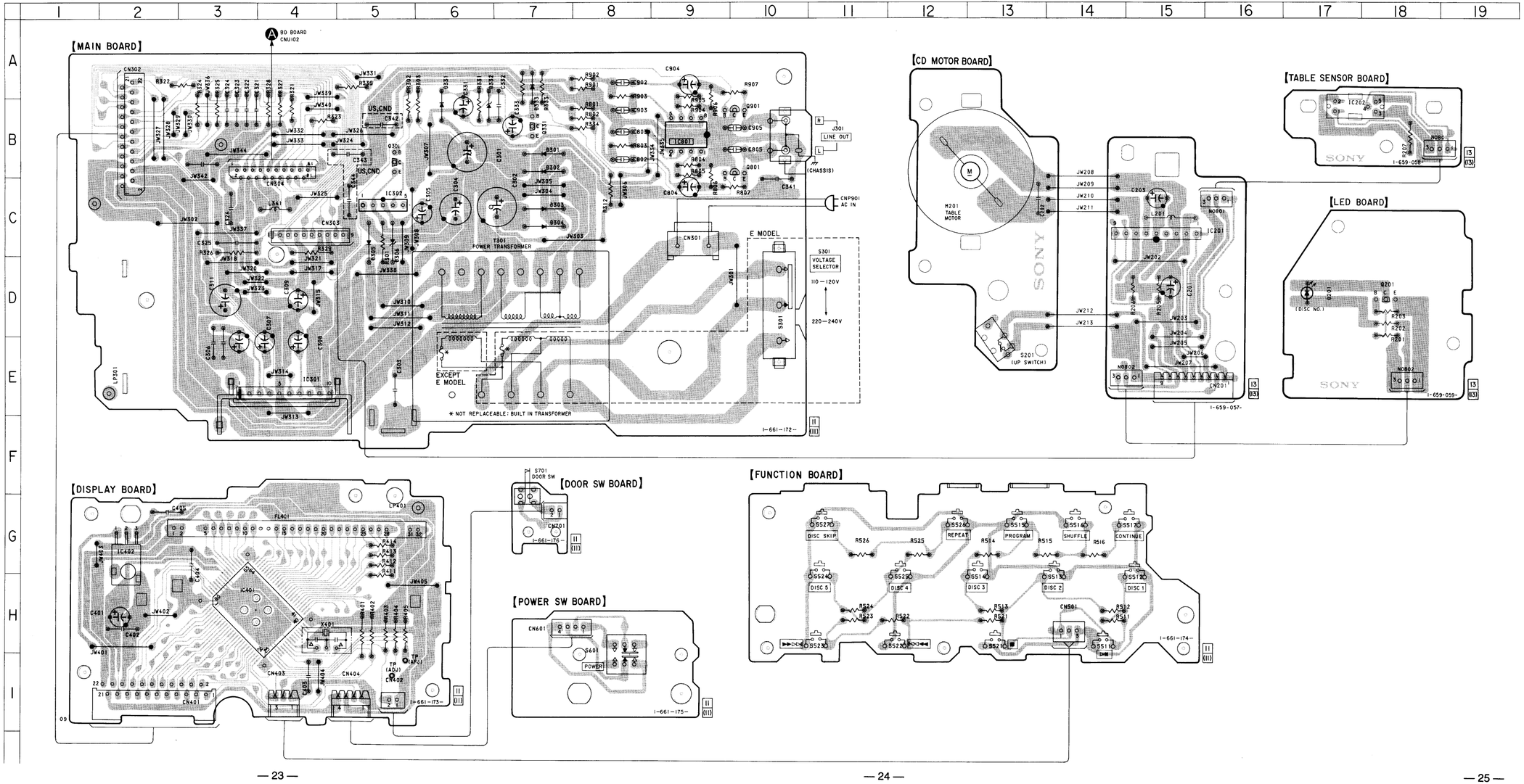
Note:
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

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

- B+ : B+ Line.
- B- : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark: STOP
  * : can not be measured.
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Abbreviation
  CND: Canadian model.
- Signal path.
  ⇨ : CD

6-5. PRINTED WIRING BOARD — MAIN SECTION —

• See page 11 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location
D201	D-17
D301	B-7
D302	B-7
D303	C-7
D304	C-7
D305	C-5
D306	C-5
D331	A-6
D332	A-6
D333	B-7
IC201	C-16
IC202	B-17
IC301	E-4
IC302	C-5
IC401	H-3
IC402	G-2
IC801	B-9
Q201	D-18
Q301	B-5
Q331	B-7
Q801	B-10
Q901	B-10

Note:

- ⟷ : parts extracted from the component side.
- △ : Internal component.
- ▒ : Pattern from the side which enable seeing.

6-6. IC PIN FUNCTION

• IC401 SYSTEM CONTROL, FLUORESCENT INDICATOR TUBE DRIVE (CXP82316-065Q)

Pin No.	Pin Name	I/O	Function
1	—	–	Connected to Ground.
2	RM IN	I	Remote control signal input.
3	—	–	Connected to Ground.
4	XLT	O	Serial data latch signal output.
5	—	–	Not used. (Open)
6	T.SENSE	I	CD Table sensor signal input.
7	PRGL	O	Latch signal output to digital filter (IC104).
8	CLK	O	Serial clock output.
9	MUTE	O	Audio muting control signal output.
10	DATA	O	Serial data output.
11	SQCK	O	Read out clock output for subcode Q data.
12	SUBQ	I	Subcode Q data input.
13	—	–	Not used. (Open)
14	TBL.R	O	Table motor control signal output.
15	TBL.L	O	
16	LED	O	Disc number LED drive signal output.
17 to 21	—	–	Not used. (Open)
22	UPSW	I	Disc table up detect.
23	KET 1	I	Key input (S511 to S517, S521 to S527)
24	KEY 2	I	
25	DOOR SW	I	CD door open detection input.
26	ADJ	I	ADJ test mode input. The equipment is fixed at “H”.
27	AFJ	I	AFJ test mode input. The equipment is fixed at “H”.
28	—	–	Connected to Ground.
29	—	–	Connected to Ground.
30	RST	I	Reset signal input.
31	EXTAL	I	Clock input. (5.08 MHz)
32	XTAL	O	Clock output. (5.08 MHz)
33	V_{SS}	–	Ground
34 to 45	—	–	Not used. (Open)
46 to 60	P1 to P15	O	Fluorescent Indicator Tube segment output.
61 to 63	—	–	Not used. (Open)
64 to 70	1G to 7G	O	Fluorescent Indicator Tube grid (timing) output.
71	VG	–	–30V pin for Fluorescent Indicator tube.
72	V_{DD} (+5V)	–	+5V pin.
73	—	–	
74 to 76	—	–	Connected to Ground.
77	FSW	O	Focus switch signal output.
78	—	–	Connected to Ground.
79	SCOR	I	Read out timing signal input for subcode Q data.
80	SENS	O	SENSE signal input.

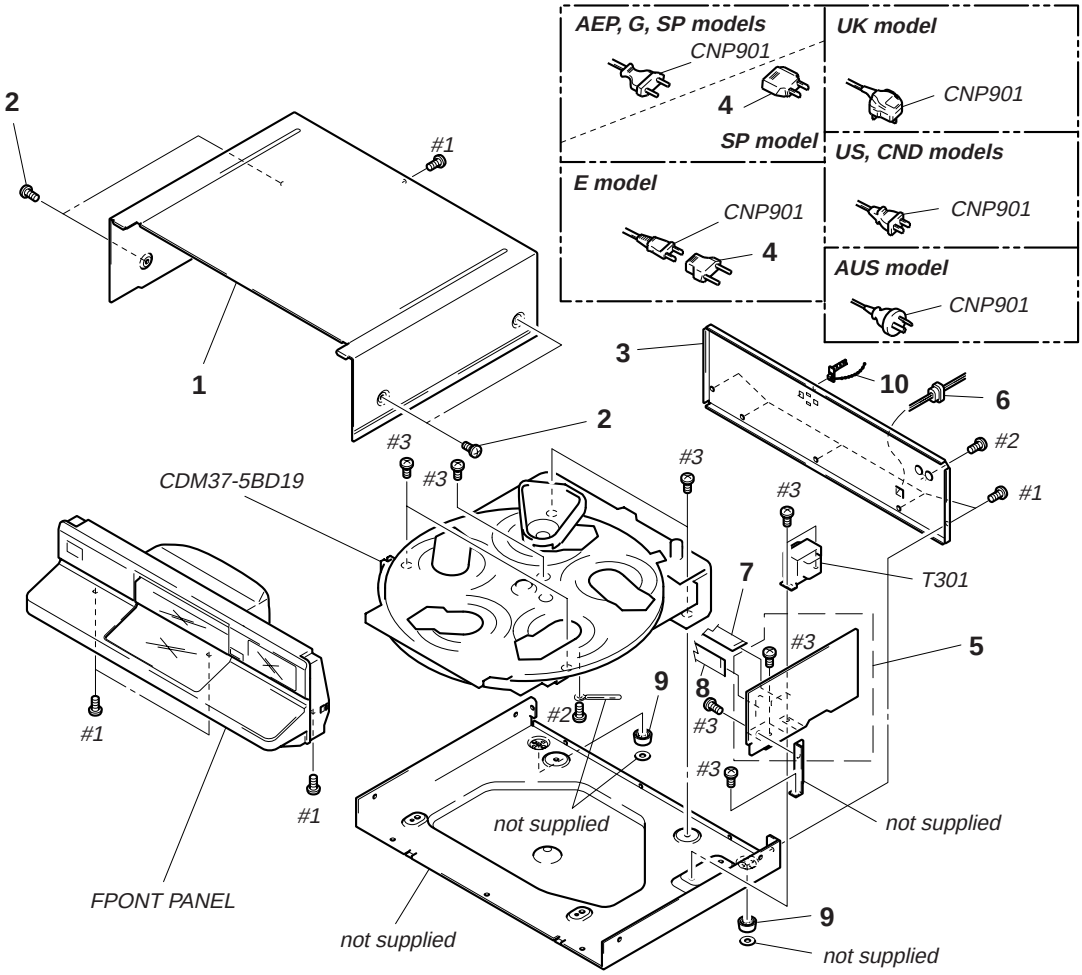
SECTION 7
EXPLODED VIEWS

NOTE:
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The 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.
  AUS : Australian model

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

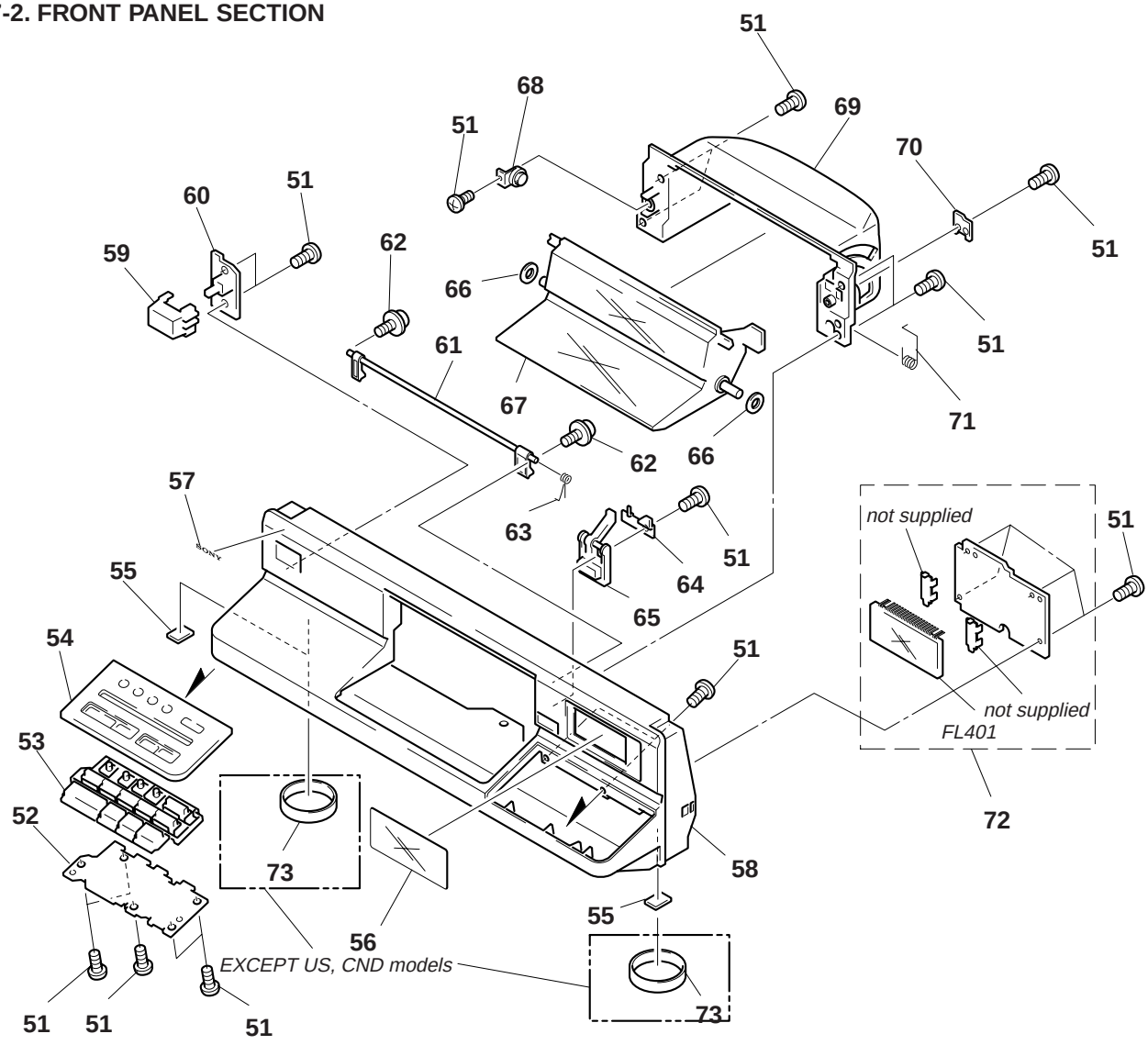
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

7-1. CASE AND BACK PANEL SECTION



Ref. No.	Part No.	Description	Remark
* 1	4-982-186-11	CASE	
2	3-363-099-01	SCREW (CASE 3 TP2)	
* 3	4-982-187-01	PANEL, BACK (US)	
* 3	4-982-187-11	PANEL, BACK (CND)	
* 3	4-982-187-21	PANEL, BACK (AUS)	
* 3	4-982-187-31	PANEL, BACK (AEP,G)	
* 3	4-982-187-51	PANEL, BACK (UK)	
* 3	4-982-187-71	PANEL, BACK (E)	
* 3	4-982-187-81	PANEL, BACK (SP)	
⚠4	1-569-007-11	ADAPTOR, CONVERSION 2P (E)	
⚠4	1-569-008-11	ADAPTOR, CONVERSION 2P (SP)	
* 5	A-4699-011-A	MAIN BOARD, COMPLETE (AEP,UK,G,AUS,SP)	
* 5	A-4699-012-A	MAIN BOARD, COMPLETE (E)	
* 5	A-4699-249-A	MAIN BOARD, COMPLETE (US,CND)	
* 6	3-703-244-00	BUSHING (2104), CORD (US,CND,AEP,UK,G,AUS,SP)	
6	3-703-571-11	BUSHING (S) (4516), CORD (E)	
7	1-777-157-11	WIRE (FLAT TYPE) (19 CORE)	
8	1-777-158-11	WIRE (FLAT TYPE) (22 CORE)	
9	X-4941-228-1	FOOT (F22125H-M)	
10	4-956-370-02	BAND, PLUG FIXED (UK,AUS)	
⚠CNP901	1-575-042-21	CORD, POWER (US,CND)	
⚠CNP901	1-575-651-21	CORD, POWER (AEP,G,SP)	
⚠CNP901	1-696-027-11	CORD, POWER (E)	
⚠CNP901	1-696-845-11	CORD, POWER (AUS)	
⚠CNP901	1-751-529-11	CORD, POWER (UK)	
⚠T301	1-429-650-11	TRANSFORMER, POWER (US,CND)	
⚠T301	1-429-651-11	TRANSFORMER, POWER (AEP,UK,G,AUS,SP)	
⚠T301	1-429-652-11	TRANSFORMER, POWER (E)	

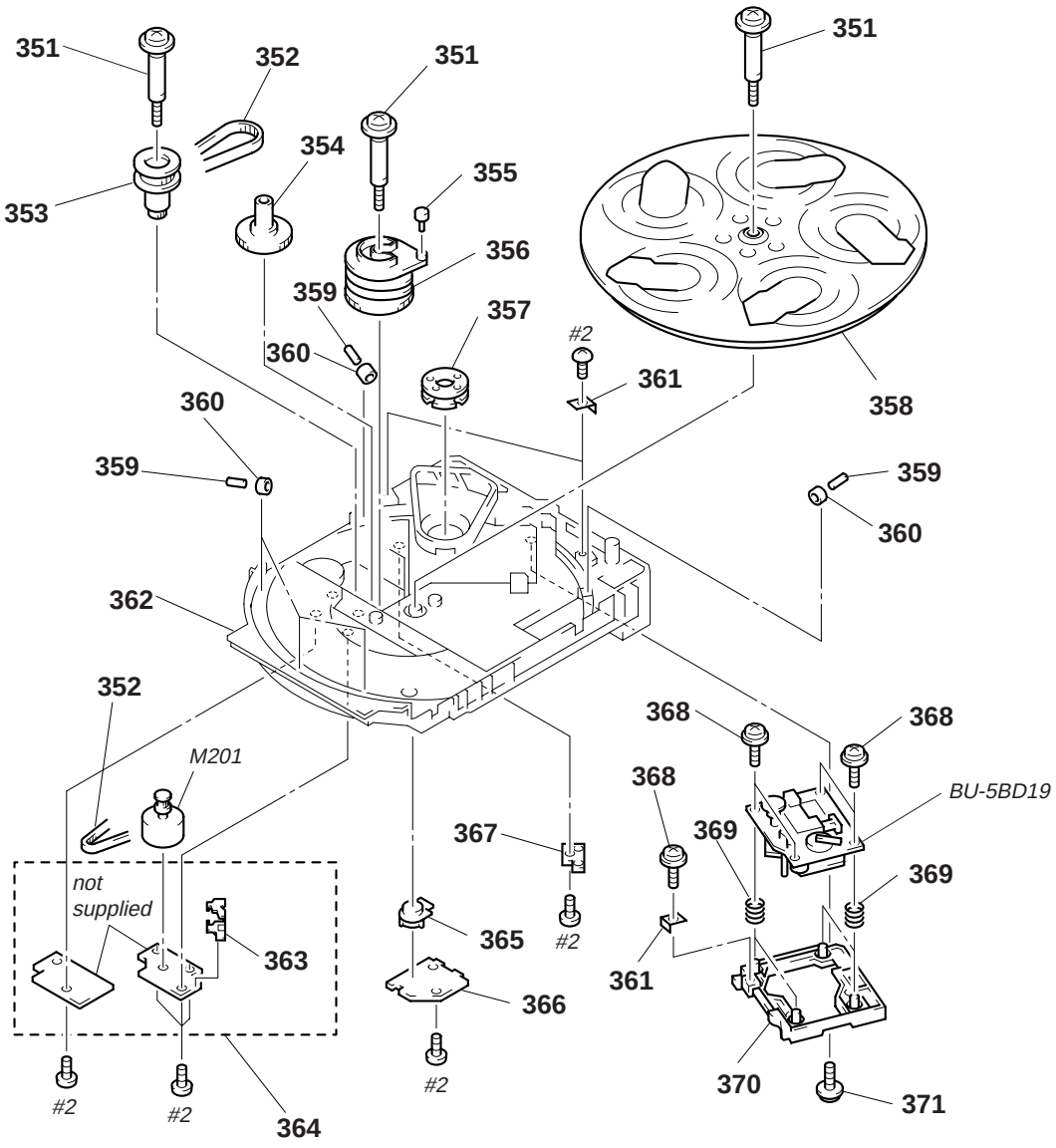
7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	4-951-620-01	SCREW (2.6X8), +BVTP	
* 52	1-661-174-11	FUNCTION BOARD	
53	4-982-194-01	BUTTON	
54	4-982-196-02	BASE, BUTTON	
55	4-977-358-11	CUSHION (8X12.5)	
56	4-982-192-01	PLATE, INDICATION	
57	4-963-404-21	EMBLEM (5-A), SONY	
58	4-982-188-01	PANEL, FRONT	
59	3-931-429-01	BUTTON (POWER)	
* 60	1-661-175-11	POWER SW BOARD	
61	A-4672-189-A	LEVER ASSY, LOCK	
62	4-933-134-01	SCREW (+PTPWH M2.6X6)	
63	4-982-199-01	SPRING (LEVER), TORSION	

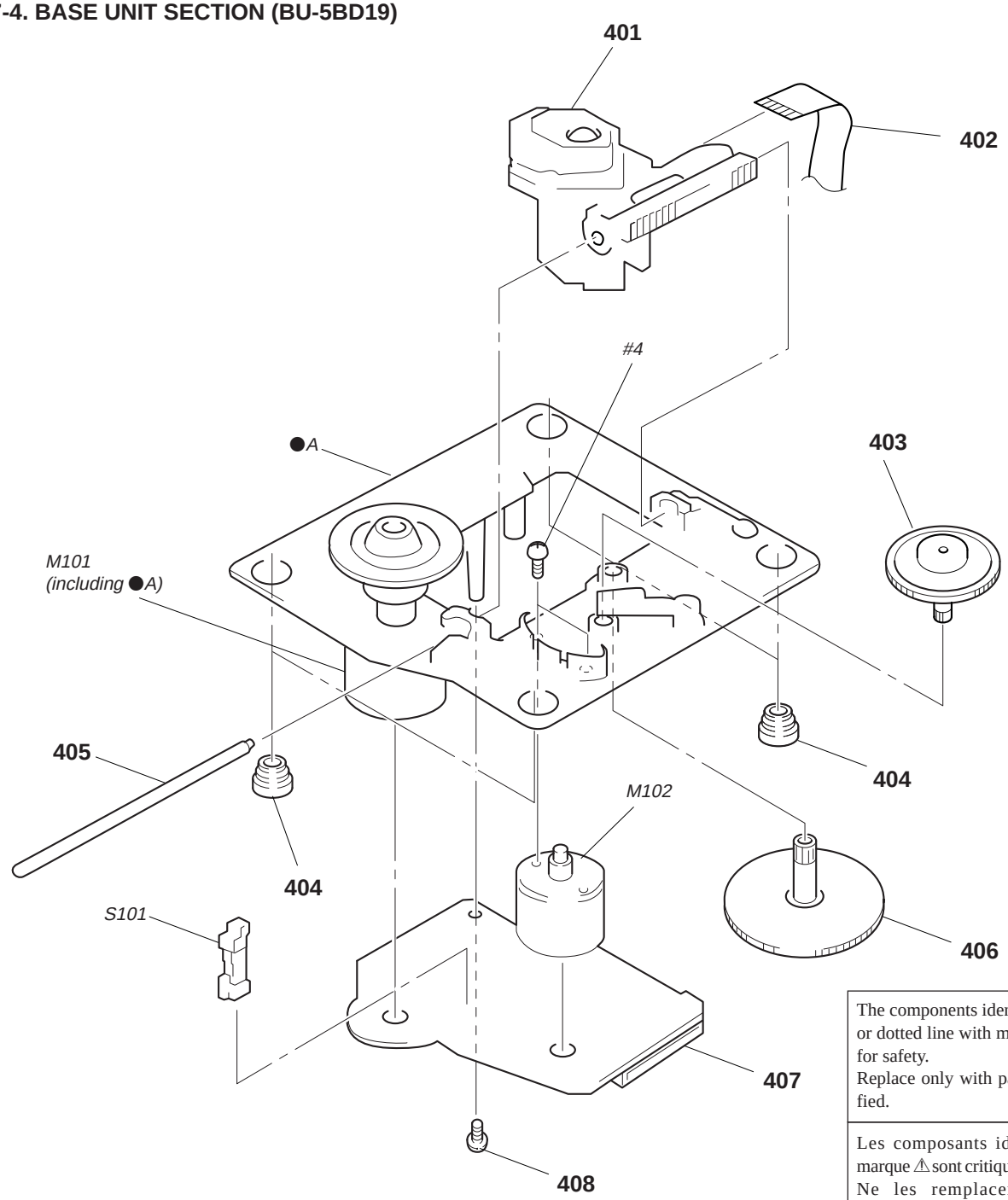
Ref. No.	Part No.	Description	Remark
* 64	4-982-198-01	BRACKET (BUTTON)	
65	4-982-193-01	BUTTON (OPEN)	
66	3-701-443-11	WASHER	
67	4-982-191-01	DOOR	
68	3-354-963-01	DAMPER	
69	4-982-190-02	COVER	
* 70	1-661-176-11	DOOR SW BOARD	
71	4-982-195-01	SPRING (DOOR), TORSION	
* 72	A-4699-013-A	DISPLAY BOARD, COMPLETE	
73	4-977-593-11	RING (DIA. 50), ORNAMENTAL (EXCEPT US,CND)	
FL401	1-517-522-11	INDICATOR TUBE, FLUORESCENT	

7-3. CD MECHANISM SECTION (CDM37-5BD19)



Ref. No.	Part No.	Description	Remark
351	4-978-423-01	SCREW, STEP	
352	4-944-490-01	BELT (TIMING)	
353	A-4660-978-A	GEAR (PULLEY) ASSY	
354	4-978-421-01	GEAR (MID)	
355	4-978-425-01	ROLLER (CAM)	
356	4-978-420-01	CAM (HOLDER)	
357	1-452-538-11	MAGNET	
358	4-978-417-01	TABLE, DISC	
359	4-934-376-01	SHAFT (ROLLER)	
360	X-4924-457-1	ROLLER ASSY	
* 361	4-978-583-01	BRACKET (BU)	
* 362	4-978-418-01	CHASSIS	
* 363	4-980-385-01	HOLDER (SW)	
* 364	A-4673-765-A	CD MOTOR BOARD, COMPLETE	
365	4-978-426-01	INDICATOR (NO.)	
* 366	1-659-059-13	LED BOARD	
* 367	1-659-058-13	TABLE SENSOR BOARD	
368	4-933-134-01	SCREW (+PTPWH M2.6X6)	
369	4-958-593-01	SPRING (BU), COMPRESSION	
* 370	4-978-419-01	HOLDER (BU-5)	
371	4-917-583-71	BRACKET, YOKE	
M201	A-4660-977-A	MOTOR ASSY (TABLE)	

7-4. BASE UNIT SECTION (BU-5BD19)



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.

Ref. No.	Part No.	Description	Remark
⚠401	8-848-367-11	OPTICAL PICK-UP KSS-213BA/F-NP	
402	1-769-069-11	WIRE (FLAT TYPE)(16 CORE)	
403	4-917-567-01	GEAR (M)	
404	4-951-940-01	INSULATOR (BU)	
405	4-917-565-01	SHAFT, SLED	
406	4-917-564-01	GEAR (P), FLATNESS	

Ref. No.	Part No.	Description	Remark
* 407	A-4673-402-A	BD BOARD, COMPLETE	
408	4-951-620-01	SCREW (2.6X8), +BVTP	
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	

SECTION 8
ELECTRICAL PARTS LIST

BD

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 ⚠ 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.
- 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
- Abbreviation
  CND : Canadian model
  G : German model
  SP : Singapore model.
  AUS : Australian model

Ref. No.	Part No.	Description			Remark
*	A-4673-402-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-162-600-11	CERAMIC CHIP	4700uF	10%	16V
C101	1-126-607-11	ELECT CHIP	47uF	20%	4V
C102	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C103	1-164-346-11	CERAMIC CHIP	1uF		16V
C105	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C106	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C107	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C108	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C109	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C110	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C111	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C112	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C113	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C114	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-163-016-00	CERAMIC CHIP	0.0039uF	10%	50V
C117	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C118	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C119	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C120	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C121	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C122	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C123	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C124	1-126-607-11	ELECT CHIP	47uF	20%	4V
C125	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C126	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C127	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C128	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C129	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C130	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C131	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C132	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C133	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C134	1-164-346-11	CERAMIC CHIP	1uF		16V
C135	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C136	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C137	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C139	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C140	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C141	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C142	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C145	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C146	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C147	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C148	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C149	1-164-346-11	CERAMIC CHIP	1uF		16V
C153	1-135-259-11	TANTAL. CHIP	10uF	20%	6.3V
C154	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
		< CONNECTOR >			
CNU101	1-770-014-11	CONNECTOR, FFC/FPC 16P			
CNU102	1-770-013-11	CONNECTOR, FFC/FPC 19P			
		< IC >			
IC101	8-752-069-56	IC CXA1782BQ			
IC102	8-759-291-06	IC BA6397FP-T1			
IC103	8-752-372-94	IC CXD2507AQ			
IC104	8-759-185-29	IC PCM1710U-B			
		< MOTOR >			
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)			
M102	X-4917-504-1	MOTOR ASSY (SLED)			
		< TRANSISTOR >			
Q101	8-729-010-08	TRANSISTOR MSB710-R			
Q102	8-729-424-08	TRANSISTOR UN2111			
Q103	8-729-421-22	TRANSISTOR UN2211			
		< RESISTOR >			
R102	1-216-001-00	METAL CHIP	10	5%	1/10W
R103	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R104	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R105	1-216-093-00	METAL CHIP	68K	5%	1/10W
R106	1-216-093-00	METAL CHIP	68K	5%	1/10W
R107	1-216-093-00	METAL CHIP	68K	5%	1/10W
R108	1-216-093-00	METAL CHIP	68K	5%	1/10W
R109	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R112	1-216-083-00	METAL CHIP	27K	5%	1/10W
R113	1-216-083-00	METAL CHIP	27K	5%	1/10W

BD **CD MOTOR** **DISPLAY**

Ref. No.	Part No.	Description			Remark
R114	1-216-101-00	METAL CHIP	150K	5%	1/10W
R115	1-216-101-00	METAL CHIP	150K	5%	1/10W
R116	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R117	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R118	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R119	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R120	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R121	1-216-114-00	METAL GLAZE	510K	5%	1/10W
R122	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R123	1-216-099-00	METAL CHIP	120K	5%	1/10W
R124	1-216-091-00	METAL CHIP	56K	5%	1/10W
R125	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R126	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W
R127	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R128	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R129	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R130	1-216-079-00	METAL CHIP	18K	5%	1/10W
R131	1-216-079-00	METAL CHIP	18K	5%	1/10W
R132	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R133	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R134	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R135	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R136	1-216-073-00	METAL CHIP	10K	5%	1/10W
R137	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R138	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R139	1-216-033-00	METAL CHIP	220	5%	1/10W
R140	1-216-081-00	METAL CHIP	22K	5%	1/10W
R141	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R142	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R143	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R144	1-216-073-00	METAL CHIP	10K	5%	1/10W
R145	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R146	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R147	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R148	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R149	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R150	1-216-037-00	METAL CHIP	330	5%	1/10W
R151	1-216-037-00	METAL CHIP	330	5%	1/10W
R152	1-216-037-00	METAL CHIP	330	5%	1/10W
R153	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R154	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R156	1-216-085-00	METAL CHIP	33K	5%	1/10W
R157	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R158	1-216-001-00	METAL CHIP	10	5%	1/10W
		< VARIABLE RESISTOR >			
RV101	1-241-396-11	RES, ADJ, METAL GLAZE 22K			
RV102	1-241-396-11	RES, ADJ, METAL GLAZE 22K			
RV103	1-241-396-11	RES, ADJ, METAL GLAZE 22K			
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT)			

Ref. No.	Part No.	Description			Remark
		< VIBRATOR >			
X101	1-579-280-11	VIBRATOR, CRYSTAL (16.9344MHz)			
**********					
*	A-4673-765-A	CD MOTOR BOARD, COMPLETE			
		**********			
*	4-980-385-01	HOLDER (SW)			
		< CAPACITOR >			
C201	1-124-907-11	ELECT	10uF	20%	50V
C202	1-164-159-21	CERAMIC	0.1uF		50V
C203	1-124-907-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CN201	1-568-947-11	PIN, CONNECTOR 9P			
		< IC >			
IC201	8-759-365-94	IC TA8409S			
		< COIL >			
L201	1-408-117-00	INDUCTOR 10uH			
		< MOTOR >			
M201	A-4660-977-A	MOTOR ASSY (TABLE)			
		< RESISTOR >			
R205	1-249-427-11	CARBON	6.8K	5%	1/4W F
R206	1-249-425-11	CARBON	4.7K	5%	1/4W F
		< SWITCH >			
⚠S201	1-762-587-11	SWITCH, PUSH (1 KEY)(UP)			
**********					
*	A-4699-013-A	DISPLAY BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C401	1-126-513-11	ELECT	47uF	20%	6.3V
C402	1-161-494-00	CERAMIC	0.022uF		25V
C403	1-161-494-00	CERAMIC	0.022uF		25V
C404	1-164-159-21	CERAMIC	0.1uF		50V
C405	1-161-494-00	CERAMIC	0.022uF		25V
		< CONNECTOR >			
CN401	1-568-796-11	SOCKET, CONNECTOR 22P			
* CN403	1-568-941-11	PIN, CONNECTOR 3P			
* CN404	1-568-942-11	PIN, CONNECTOR 4P			

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Ref. No.	Part No.	Description			Remark
		< FLUORESCENT INDICATOR >			
FL401	1-517-522-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC401	8-752-859-44	IC CXP82316-065Q			
IC402	8-759-339-53	IC GP1U28XB			
		< RESISTOR >			
R401	1-249-427-11	CARBON	6.8K	5%	1/4W F
R402	1-249-427-11	CARBON	6.8K	5%	1/4W F
R403	1-249-429-11	CARBON	10K	5%	1/4W
R404	1-249-429-11	CARBON	10K	5%	1/4W
R405	1-249-429-11	CARBON	10K	5%	1/4W
		< VIBRATOR >			
X401	1-579-233-11	VIBRATOR, CERAMIC (5MHz)			
**********					
*	1-661-176-11	DOOR SW BOARD **********			
		< SWITCH >			
S701	1-762-730-11	SWITCH, PUSH (1 KEY)(DOOR SW)			
**********					
*	1-661-174-11	FUNCTION BOARD **********			
		< RESISTOR >			
R511	1-249-415-11	CARBON	680	5%	1/4W F
R512	1-249-417-11	CARBON	1K	5%	1/4W F
R513	1-249-419-11	CARBON	1.5K	5%	1/4W F
R514	1-249-421-11	CARBON	2.2K	5%	1/4W F
R515	1-249-423-11	CARBON	3.3K	5%	1/4W F
R516	1-249-427-11	CARBON	6.8K	5%	1/4W F
R521	1-249-415-11	CARBON	680	5%	1/4W F
R522	1-249-417-11	CARBON	1K	5%	1/4W F
R523	1-249-419-11	CARBON	1.5K	5%	1/4W F
R524	1-249-421-11	CARBON	2.2K	5%	1/4W F
R525	1-249-423-11	CARBON	3.3K	5%	1/4W F
R526	1-249-427-11	CARBON	6.8K	5%	1/4W F
		< SWITCH >			
S511	1-762-196-21	SWITCH, TACT (▷ ▮▮)			
S512	1-762-196-21	SWITCH, TACT (DISC 1)			
S513	1-762-196-21	SWITCH, TACT (DISC 2)			
S514	1-762-196-21	SWITCH, TACT (DISC 3)			
S515	1-762-196-21	SWITCH, TACT (PROGRAM)			
S516	1-762-196-21	SWITCH, TACT (SHUFFLE)			
S517	1-762-196-21	SWITCH, TACT (CONTINUE)			

Ref. No.	Part No.	Description			Remark
S521	1-762-196-21	SWITCH, TACT (■)			
S522	1-762-196-21	SWITCH, TACT (▶▶ ▷▷I)			
S523	1-762-196-21	SWITCH, TACT (I◁◁ ◀◀)			
S524	1-762-196-21	SWITCH, TACT (DISC 5)			
S525	1-762-196-21	SWITCH, TACT (DISC 4)			
S526	1-762-196-21	SWITCH, TACT (REPEAT)			
S527	1-762-196-21	SWITCH, TACT (DISC SKIP)			
**********					
*	1-659-059-13	LED BOARD **********			
		< DIODE >			
D201	8-719-032-98	DIODE SEL5820A (DISC No.)			
		< TRANSISTOR >			
Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE			
		< RESISTOR >			
R201	1-247-863-91	CARBON	22K	5%	1/4W
R202	1-249-411-11	CARBON	330	5%	1/4W
R203	1-249-437-11	CARBON	47K	5%	1/4W
**********					
*	A-4699-249-A	MAIN BOARD, COMPLETE (US,CND) **********			
*	A-4699-011-A	MAIN BOARD, COMPLETE (AEP,UK,G,AUS,SP) **********			
*	A-4699-012-A	MAIN BOARD, COMPLETE (E) **********			
	7-685-871-01	SCREW +BVTT 3X6 (S)			
		< CAPACITOR >			
C301	1-126-936-11	ELECT	3300uF	20%	16V
C302	1-126-952-11	ELECT	1000uF	20%	16V
C303	1-161-494-00	CERAMIC	0.022uF		25V
C304	1-128-552-51	ELECT	47uF	20%	63V
C305	1-126-964-11	ELECT	10uF	20%	50V
C306	1-164-159-21	CERAMIC	0.1uF		50V
C307	1-126-964-11	ELECT	10uF	20%	50V
C308	1-126-963-11	ELECT	4.7uF	20%	50V
C309	1-126-923-11	ELECT	220uF	20%	10V
C311	1-126-935-11	ELECT	470uF	20%	6.3V
C321	1-162-290-31	CERAMIC	470PF	10%	50V
C322	1-162-290-31	CERAMIC	470PF	10%	50V
C323	1-162-290-31	CERAMIC	470PF	10%	50V
C324	1-162-290-31	CERAMIC	470PF	10%	50V
C325	1-161-494-00	CERAMIC	0.022uF		25V
C326	1-161-494-00	CERAMIC	0.022uF		25V

MAIN POWER

Ref. No.	Part No.	Description			Remark
C331	1-126-933-11	ELECT	100uF	20%	16V
C332	1-161-494-00	CERAMIC	0.022uF		25V
C333	1-126-962-11	ELECT	3.3uF	20%	50V
C341	1-164-159-21	CERAMIC	0.1uF		50V
C342	1-162-199-31	CERAMIC	10PF	5%	50V (US,CND)
C343	1-162-199-31	CERAMIC	10PF	5%	50V (US,CND)
C344	1-161-494-00	CERAMIC	0.022uF		25V (US,CND)
C802	1-130-475-00	MYLAR	0.0022uF	5%	50V
C803	1-130-475-00	MYLAR	0.0022uF	5%	50V
C804	1-126-933-11	ELECT	100uF	20%	10V
C805	1-130-477-00	MYLAR	0.0033uF	5%	50V
C902	1-130-475-00	MYLAR	0.0022uF	5%	50V
C903	1-130-475-00	MYLAR	0.0022uF	5%	50V
C904	1-126-933-11	ELECT	100uF	20%	10V
C905	1-130-477-00	MYLAR	0.0033uF	5%	50V
		< CONNECTOR >			
CN301	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P			
CN302	1-695-345-41	PIN, CONNECTOR (PC BOARD) 22P			
* CN303	1-568-936-11	PIN, CONNECTOR 9P			
CN304	1-770-167-11	CONNECTOR, FFC/FPC 19P			
		< DIODE >			
D301	8-719-200-82	DIODE 11ES2			
D302	8-719-200-82	DIODE 11ES2			
D303	8-719-200-82	DIODE 11ES2			
D304	8-719-200-82	DIODE 11ES2			
D305	8-719-200-82	DIODE 11ES2			
D306	8-719-121-24	DIODE RD9.1ES-L			
D331	8-719-987-63	DIODE 1N4148M			
D332	8-719-010-33	DIODE UZ-4.7BSB			
D333	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC301	8-759-330-29	IC LA5616			
IC302	8-759-633-42	IC M5293L			
IC801	8-759-634-51	IC M5218AP			
		< JACK >			
J301	1-770-719-11	JACK, PIN 2P (LINE OUT)			
		< COIL >			
L341	1-410-396-41	FERRITE BEAD INDUCTOR			
		< TRANSISTOR >			
Q301	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q331	8-729-900-65	TRANSISTOR DTA144ES			

Ref. No.	Part No.	Description			Remark
Q801	8-729-141-26	TRANSISTOR 2SC3622A-LK			
Q901	8-729-141-26	TRANSISTOR 2SC3622A-LK			
		< RESISTOR >			
R301	1-249-435-11	CARBON	33K	5%	1/4W
R302	1-249-429-11	CARBON	10K	5%	1/4W
R303	1-249-438-11	CARBON	56K	5%	1/4W
R312	1-249-441-11	CARBON	100K	5%	1/4W
R321	1-247-807-31	CARBON	100	5%	1/4W
R322	1-247-807-31	CARBON	100	5%	1/4W
R323	1-247-807-31	CARBON	100	5%	1/4W
R324	1-247-807-31	CARBON	100	5%	1/4W
R325	1-247-807-31	CARBON	100	5%	1/4W
R326	1-247-807-31	CARBON	100	5%	1/4W
R327	1-249-429-11	CARBON	10K	5%	1/4W
R328	1-249-429-11	CARBON	10K	5%	1/4W
R329	1-249-429-11	CARBON	10K	5%	1/4W
R331	1-249-411-11	CARBON	330	5%	1/4W
R333	1-249-425-11	CARBON	4.7K	5%	1/4W F
R334	1-249-425-11	CARBON	4.7K	5%	1/4W F
R335	1-249-425-11	CARBON	4.7K	5%	1/4W F
R801	1-249-441-11	CARBON	100K	5%	1/4W
R802	1-249-421-11	CARBON	2.2K	5%	1/4W F
R803	1-249-421-11	CARBON	2.2K	5%	1/4W F
R804	1-249-429-11	CARBON	10K	5%	1/4W
R805	1-249-428-11	CARBON	8.2K	5%	1/4W F
R806	1-247-887-00	CARBON	220K	5%	1/4W
R807	1-249-417-11	CARBON	1K	5%	1/4W F
R901	1-249-441-11	CARBON	100K	5%	1/4W
R902	1-249-421-11	CARBON	2.2K	5%	1/4W F
R903	1-249-421-11	CARBON	2.2K	5%	1/4W F
R904	1-249-429-11	CARBON	10K	5%	1/4W
R905	1-249-428-11	CARBON	8.2K	5%	1/4W F
R906	1-247-887-00	CARBON	220K	5%	1/4W
R907	1-249-417-11	CARBON	1K	5%	1/4W F
		< SWITCH >			
S301	1-572-675-11	SWITCH, POWER (VOLTAGE SELECTOR)(E)			
		< TRANSFORMER >			
⚠T301	1-429-650-11	TRANSFORMER, POWER (US,CND)			
⚠T301	1-429-651-11	TRANSFORMER, POWER (AEP,UK,G,AUS,SP)			
⚠T301	1-429-652-11	TRANSFORMER, POWER (E)			
**********					
*	1-661-175-11	POWER SW BOARD			
		**********			
		< SWITCH >			
S601	1-554-118-00	SWITCH, PUSH (1 KEY)(POWER)			
**********					

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TABLE SENSOR

Ref. No.	Part No.	Description	Remark
*	1-659-058-13	TABLE SENSOR BOARD **********	
		< IC >	
IC202	8-749-924-18	IC PHOTO INTERRUPTER RPI-1391	
		< RESISTOR >	
R207	1-249-416-11	CARBON 820 5% 1/4W F	
**********			
		MISCELLANEOUS **********	
⚠4	1-569-007-11	ADAPTOR, CONVERSION 2P (E)	
⚠4	1-569-008-11	ADAPTOR, CONVERSION 2P (SP)	
7	1-777-157-11	WIRE (FLAT TYPE) (19 CORE)	
8	1-777-158-11	WIRE (FLAT TYPE) (22 CORE)	
357	1-452-538-11	MAGNET	
⚠401	8-848-367-11	OPTICAL PICK-UP KSS-213BA/F-NP	
402	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
⚠CNP901	1-575-042-21	CORD, POWER (US,CND)	
⚠CNP901	1-575-651-21	CORD, POWER (AEP,G,SP)	
⚠CNP901	1-696-027-11	CORD, POWER (E)	
⚠CNP901	1-696-845-11	CORD, POWER (AUS)	
⚠CNP901	1-751-529-11	CORD, POWER (UK)	
FL401	1-517-522-11	INDICATOR TUBE, FLUORESCENT	
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
M201	A-4660-977-A	MOTOR ASSY (TABLE)	
S101	1-572-085-11	SWITCH, LEAF (LIMIT)	
⚠T301	1-429-650-11	TRANSFORMER, POWER (US,CND)	
⚠T301	1-429-651-11	TRANSFORMER, POWER (AEP,UK,G,AUS,SP)	
⚠T301	1-429-652-11	TRANSFORMER, POWER (E)	
**********			
		ACCESSORIES & PACKING MATERIALS **********	
	1-558-271-11	CORD, CONNECTION (AUDIO 108cm)	
	3-856-161-11	MANUAL, INSTRUCTION (ENGLISH)(US,AUS)	
	3-856-161-21	MANUAL, INSTRUCTION (ENGLISH,FRENCH,SPANISH,SWEDISH,CHINESE) (CND,AEP,UK,E,SP)	
	3-856-161-31	MANUAL, INSTRUCTION (CHINESE,DUTCH,ITALIAN,PORTUGUESE)(AEP,G)	
	3-856-161-41	MANUAL, INSTRUCTION (DANISH,FINNISH)(AEP)	
*	4-982-247-01	INDIVIDUAL CARTON (US,CND,AUS)	
*	4-984-674-01	CUSHION	
*	4-985-172-01	INDIVIDUAL CARTON (AEP,G,UK)	
*	4-985-173-01	INDIVIDUAL CARTON (E,SP)	
**********			

Ref. No.	Part No.	Description	Remark
		********** HARDWARE LIST **********	
#1	7-682-548-04	SCREW +BVTT 3X8 (S)	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#3	7-685-871-01	SCREW +BVTT 3X6 (S)	
#4	7-621-255-15	SCREW +P 2X3	

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