

HTC-NX1

SERVICE MANUAL

*US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model*



HTC-NX1 is the CD player and Tape Deck section in MHC-NX1/NX3AV.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

CD Section	Model Name Using Similar Mechanism	HCD-MD555
	CD Mechanism Type	CDM53D-K1BD33
	Base Unit Name Type	BU-K1BD33
	Optical Pick-up Name	KSM-213BFN-C2NP
Tape Deck Section	Model Name Using Similar Mechanism	HCD-GRX7
	Tape Transport Mechanism Type	TCM-230AWR2

SPECIFICATIONS

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser ($\lambda=780\text{nm}$) Emission duration: continuous
Laser output	Max. $44.6 \mu\text{W}^*$ *This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Wavelength	780 - 790 nm
Frequency response	20 Hz - 20 kHz ($\pm 0.5 \text{ dB}$)
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB
CD DIGITAL OUT	(Square optical connector jack, rear panel)
Wavelength	660 nm
Output Level	-18 dBm

Tape player section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF)	40 - 13,000 Hz ($\pm 3 \text{ dB}$), using Sony TYPE I cassette 40 - 14,000 Hz ($\pm 3 \text{ dB}$), using Sony TYPE II cassette
Dimensions (w/h/d)	Approx. 225 x 202 x 347 mm ($8\frac{7}{8} \times 8 \times 13\frac{3}{4} \text{ in.}$)
Mass	Approx. 4.2 kg (9 lb 4 oz)

Design and specifications are subject to change without notice.

MINI Hi-Fi COMPONENT SYSTEM



SONY®

SECTION 1 SERVICING NOTES

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SAFETY-RELATED COMPONENT WARNING!!

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

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

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

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

The following caution label is located inside the unit.

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VORSICHT : UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHERHEITSSPERRE GEHEBET. VERMEIDEN SIE DEN STRAHLEN AUSSETZEN.
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALT-TIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
WARNING : OSYNLIG LASERSTRÅLING NÅR DENNA DEL ÅR ÖPPNAD OCH SPÄRREN ÅR URKOPPLAD. BETRÄKTA EJ STRÅLEN.
ADVERSEL : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VIGYAZAT! : A BURKOLAT NYITÁSAKOR LÁTHATATLAN LÉZERSUGÁRSZÉLY/ KERÜLJE A BESUGÁRZÁST!

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

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

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

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

NOTES ON LASER DIODE EMISSION CHECK

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

Notes on chip component replacement

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

Flexible Circuit Board Repairing

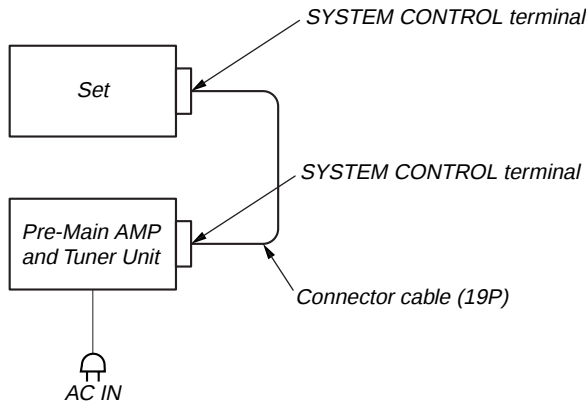
- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION

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

POWER SUPPLY DURING SERVICING

- As this set has not own power supply, it does not operate independently. Therefore, during servicing, connect it to the Pre-Main amplifier and Tuner Unit (STR-NX1/NX3) of MHC-NX1/NX3AV.



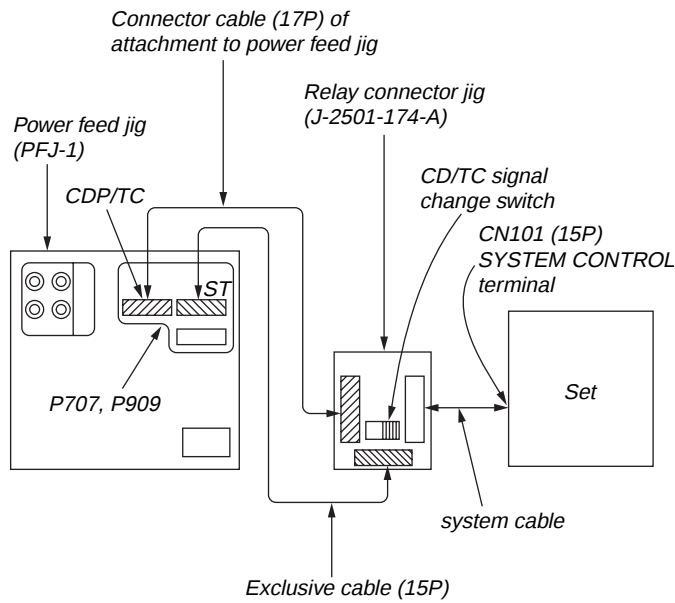
If STR-NX1/NX3 are not available, use the Power Feed Jig (PFJ-1) and Relay Connector Jig. In this case, after turn on the POWER switch on the Power Feed Jig, supply power with the following methods.

Procedure:

- Press three buttons of (DECK B), (DISC 1), and (CD) simultaneously.
- The (CD) and (CD) LEDs blink, and then pressing (CD), / (DECK A), or / (DECK B) button can make each play possible.
- Also, the other functions are enabled by pressing two buttons simultaneously. A combination of respective functions and buttons is as follows.

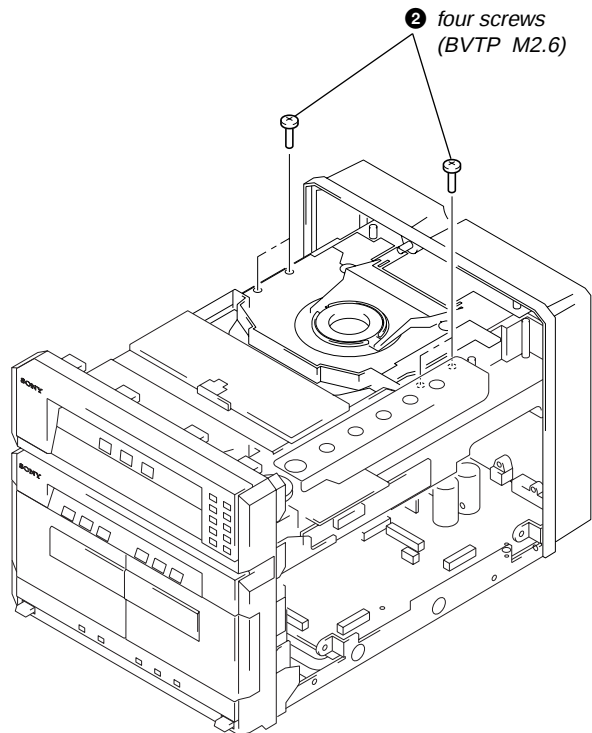
function	button
CD AMS –	(DECK A), (CD)
AMS +	(DECK A), (CD)
FR	(DECK B), (CD)
FF	(DECK B), (CD)
Deck-A REW/AMS –	(CD), (DECK A)
FF/AMS +	(CD), (DECK A)
Deck-B REW/AMS –	(CD), (DECK B)
FF/AMS +	(CD), (DECK B)

Connection:



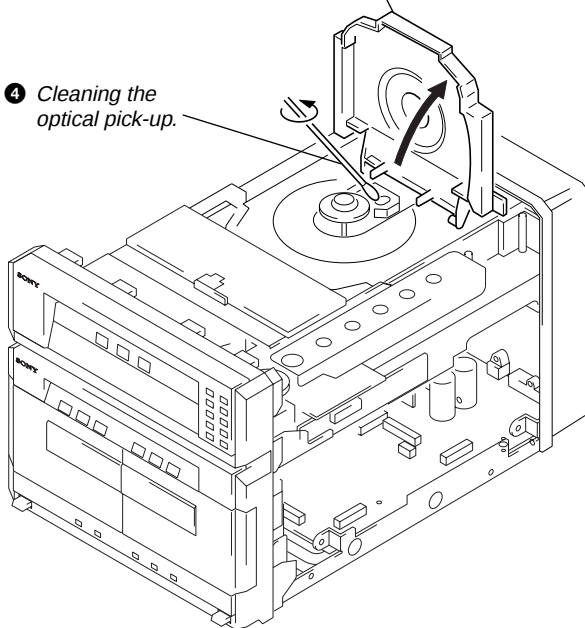
OPTICAL PICK-UP CLEANING

❶ Remove the case. (Refer to disassembly page 8)



❸ Open the magnet ass'y.

❹ Cleaning the optical pick-up.

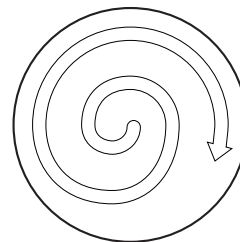


Note 1: In cleaning the lens, do not apply an excessive force.

As the optical pick-up is vulnerable, application of excessive force could damage the lens holder.

Note 2: In cleaning, do not use a cleaner other than exclusive cleaning liquid (KK-91 or isopropyl alcohol).

Note 3: Wipe the objective lens spirally from center toward outside. (See Figure A)

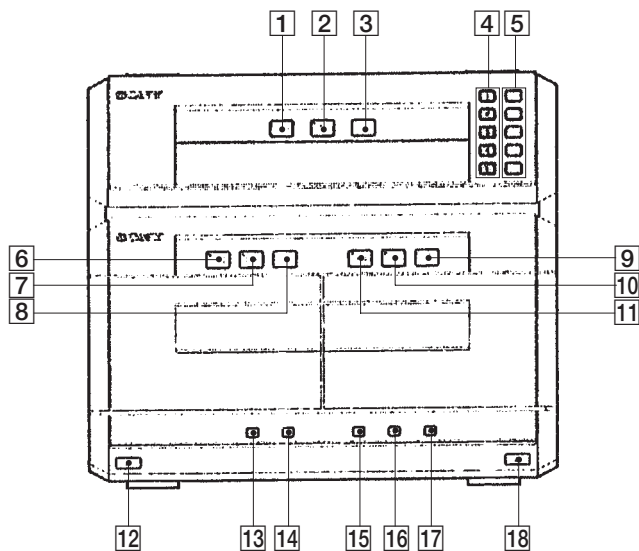


(Figure A)

SECTION 2 GENERAL

• LOCATION OF CONTROLS

– Front Panel –

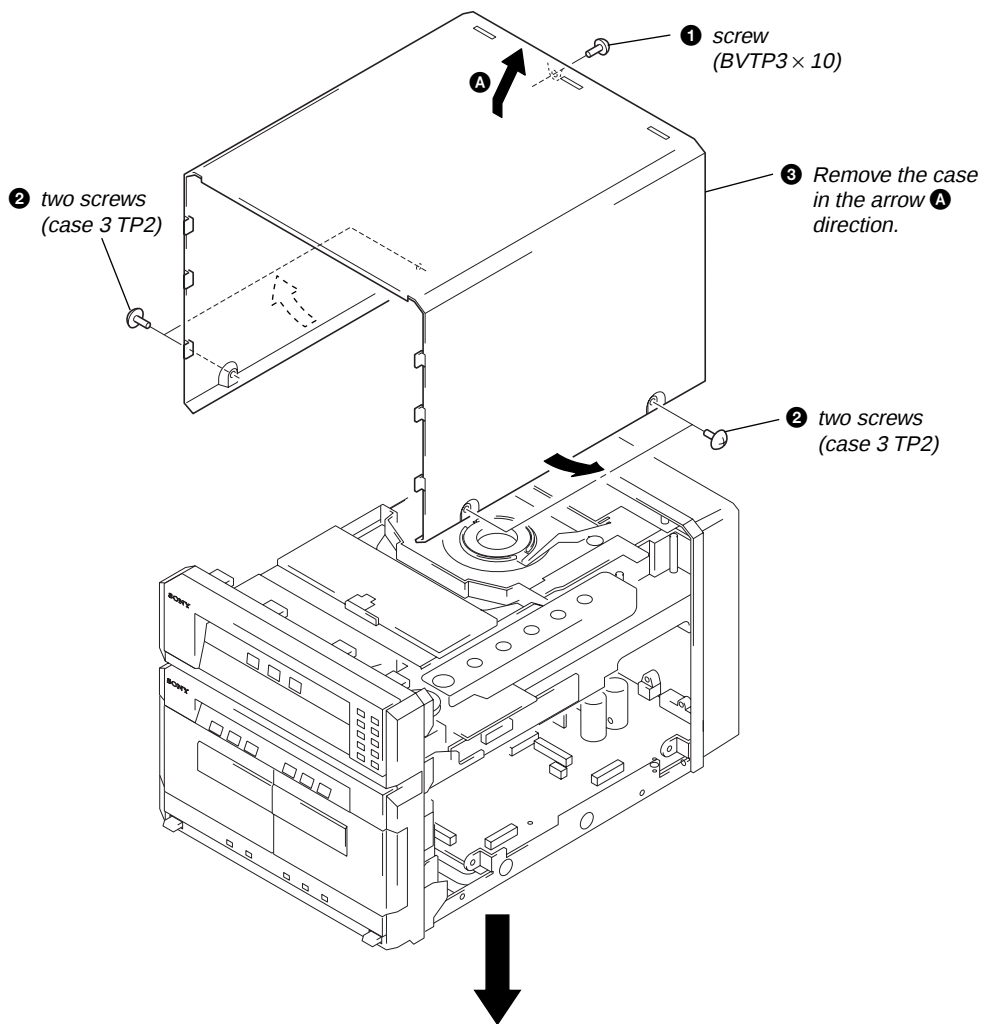


- 1 ▷ (CD) button and indicator
- 2 ▢ (CD) button and indicator
- 3 □ (CD) button
- 4 DISC1 to 5 buttons and indicators
- 5 ≡ (DISC1 to 5) buttons and indicators
- 6 ◁ (DECK A) button and indicator
- 7 ▷ (DECK A) button and indicator
- 8 □ (DECK A) button
- 9 □ (DECK B) button
- 10 ▷ (DECK B) button and indicator
- 11 ◁ (DECK B) button and indicator
- 12 ≡ (DECK A) button
- 13 DIRECTION button
- 14 DOLBY NR button
- 15 HI DUB button
- 16 CD SYNC button and indicator
- 17 REC PAUSE/START button and indicator
- 18 ≡ (DECK B) button

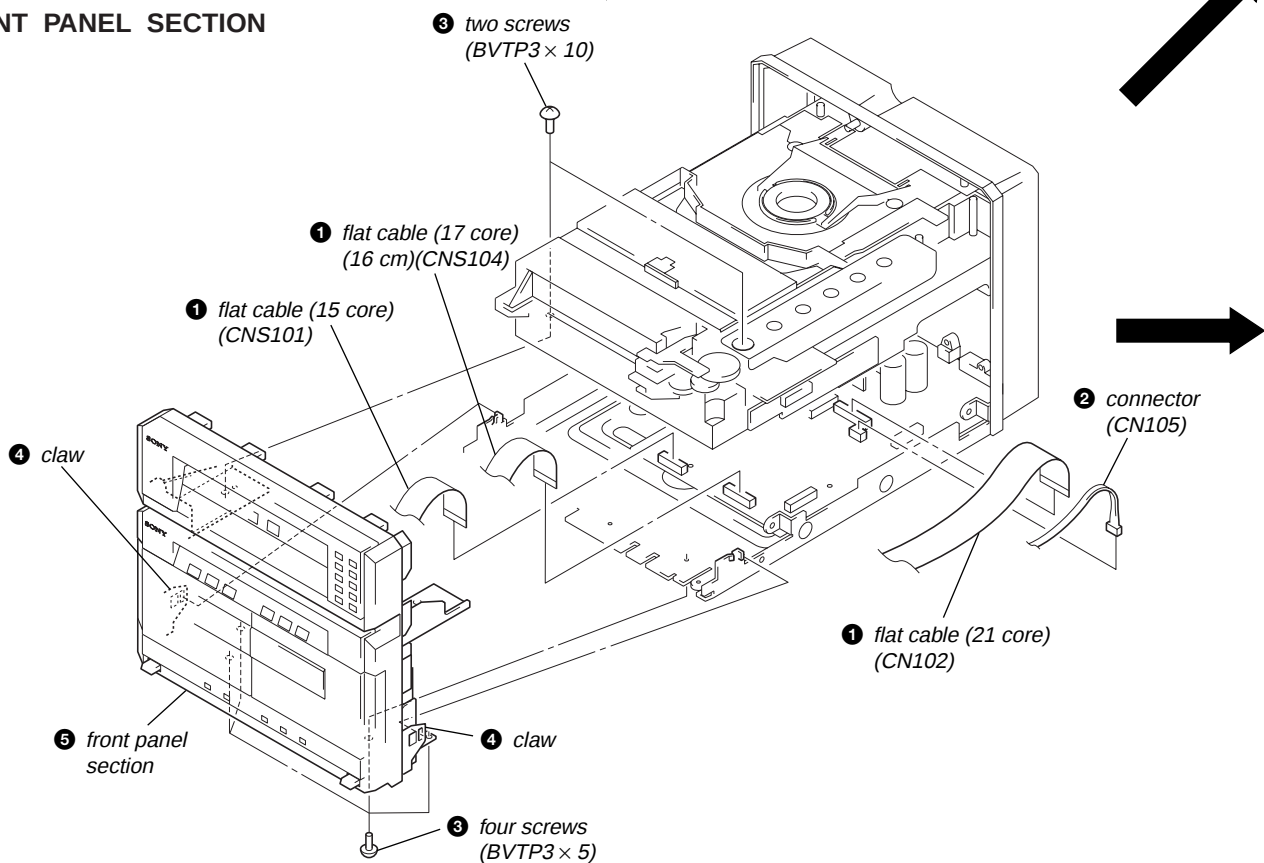
SECTION 3 DISASSEMBLY

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

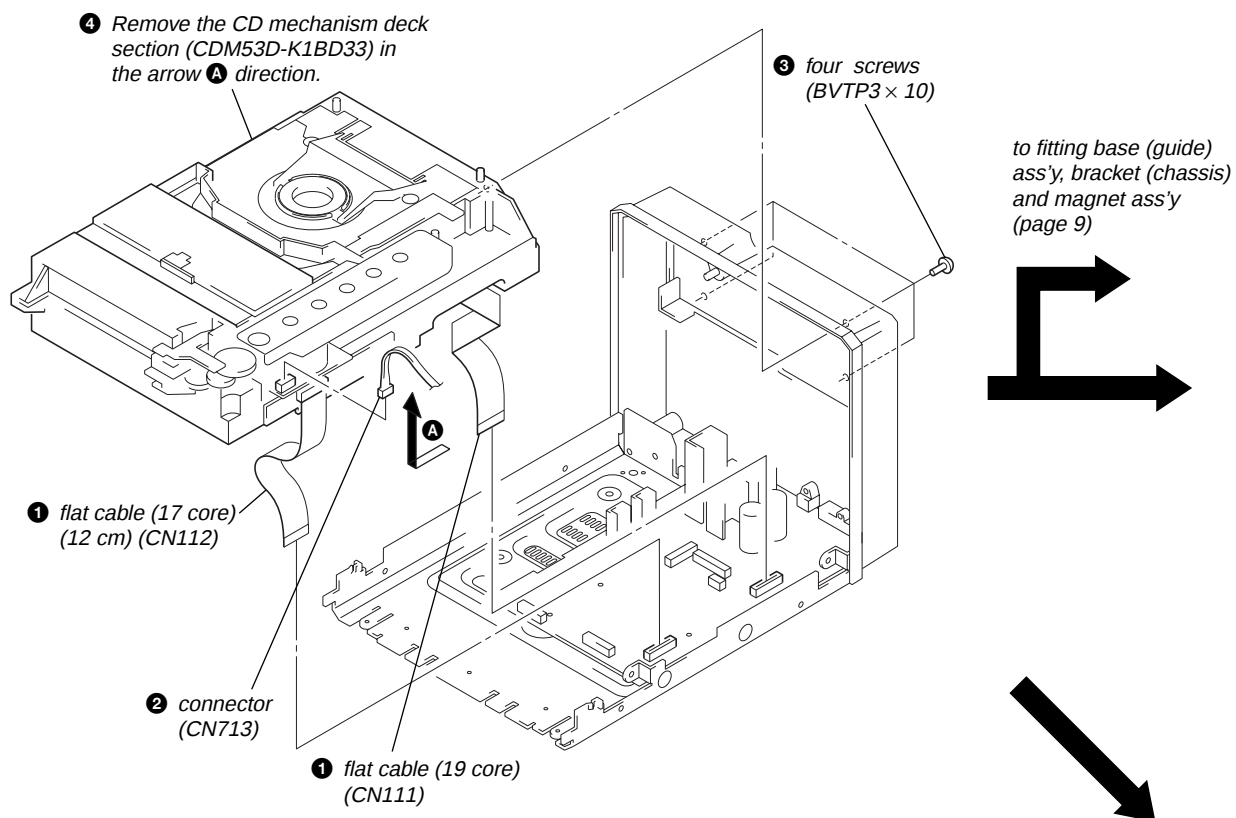
CASE



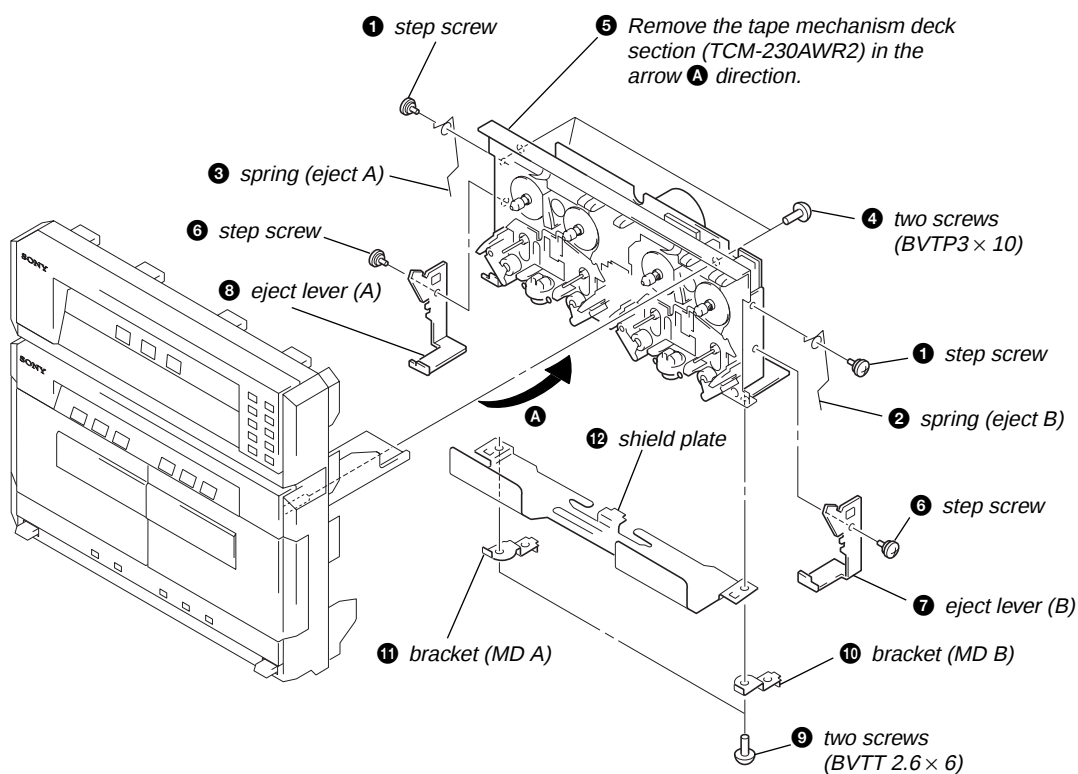
FRONT PANEL SECTION



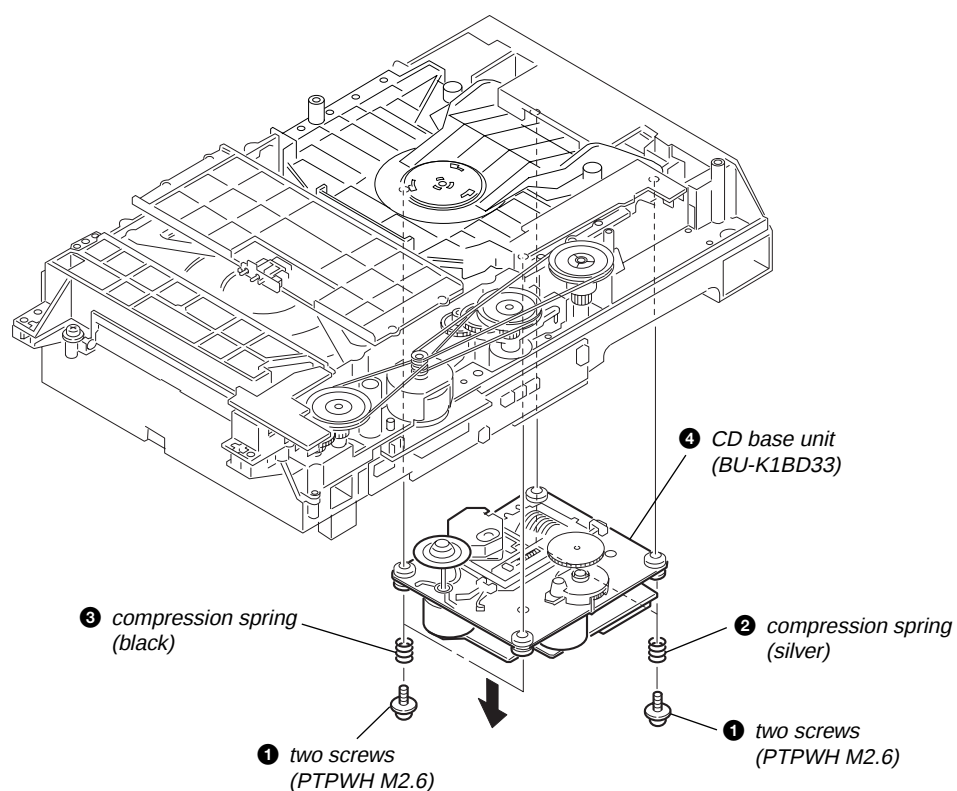
CD MECHANISM DECK SECTION (CDM53D-K1BD33)



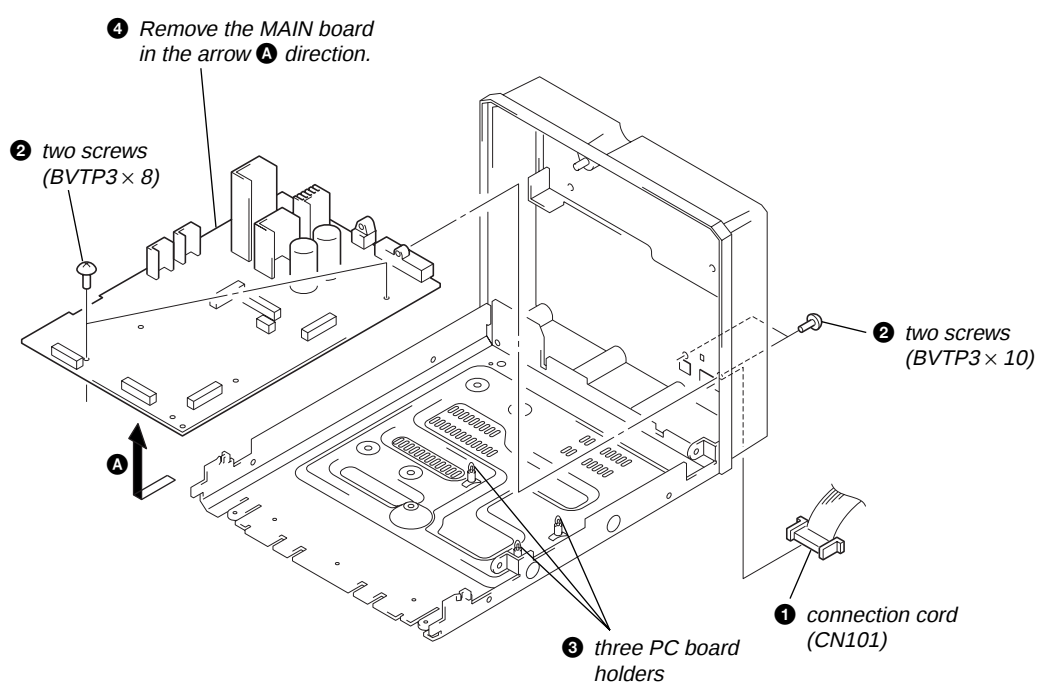
TAPE MECHANISM DECK SECTION (TCM-230AWR2)



CD BASE UNIT (BU-K1BD33)



MAIN BOARD



from CD mechanism deck section (CDM53D-K1BD3) (page 7)

1 two connectors (CN709, 715)

2 four screws (BVTP M2.6)

3 fitting base (guide) ass'y

4 screw (BVTP M2.6)

5 bracket (chassis)

6 connector (CN710)

7 four screws (BVTP M2.6)

8 magnet ass'y

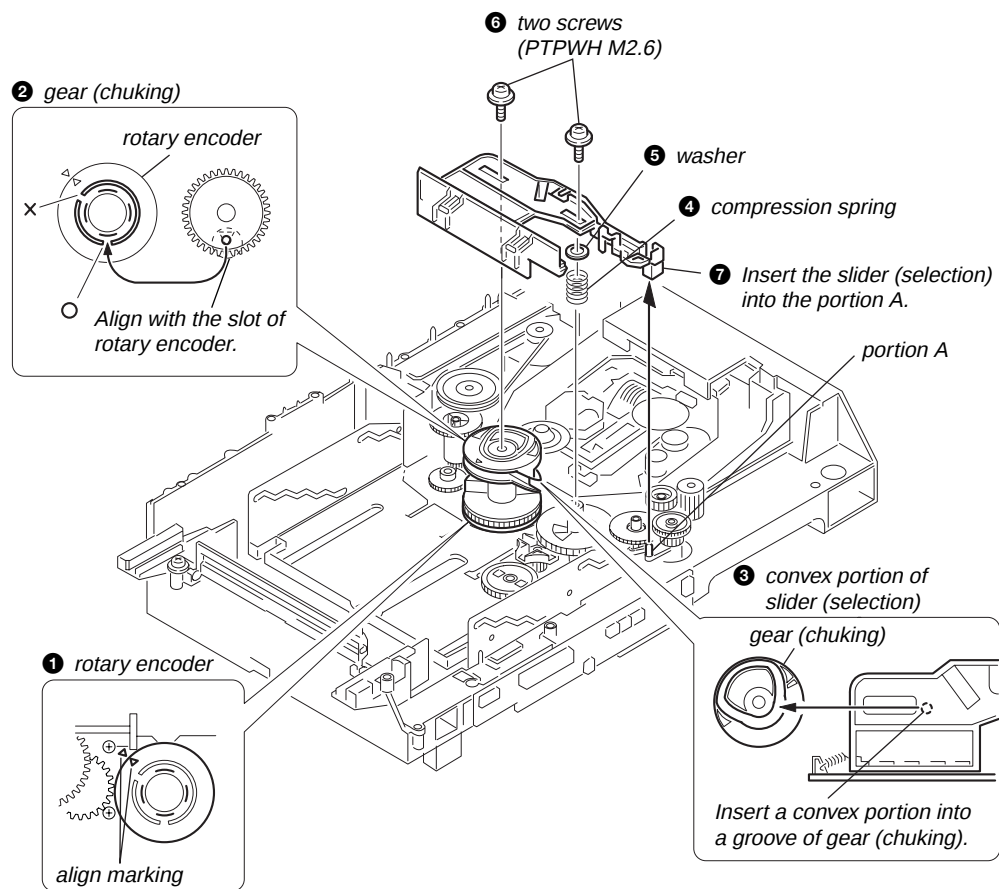
- 1 Rotating the pulley (LD), shift the slider (selection) in the arrow **A** direction.
- 2 Rotating the pulley (mode) in the arrow direction, adjust the tray (sub) to be removed.
- 3 Rotating the pulley (LD), shift the slider (selection) in the arrow **B** direction.
- 4 Rotating the pulley (mode) in the arrow direction, remove the tray (sub) to be removed.



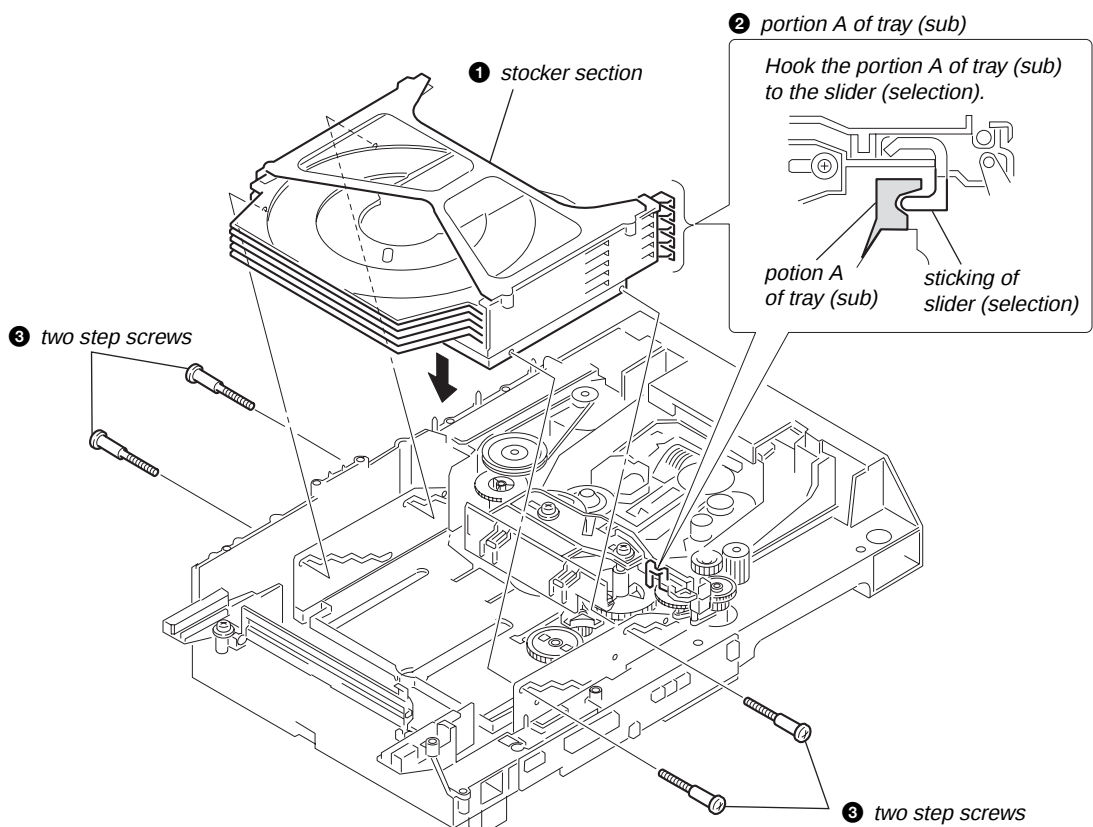
Note: In mounting the parts, refer to page 11 and 12.



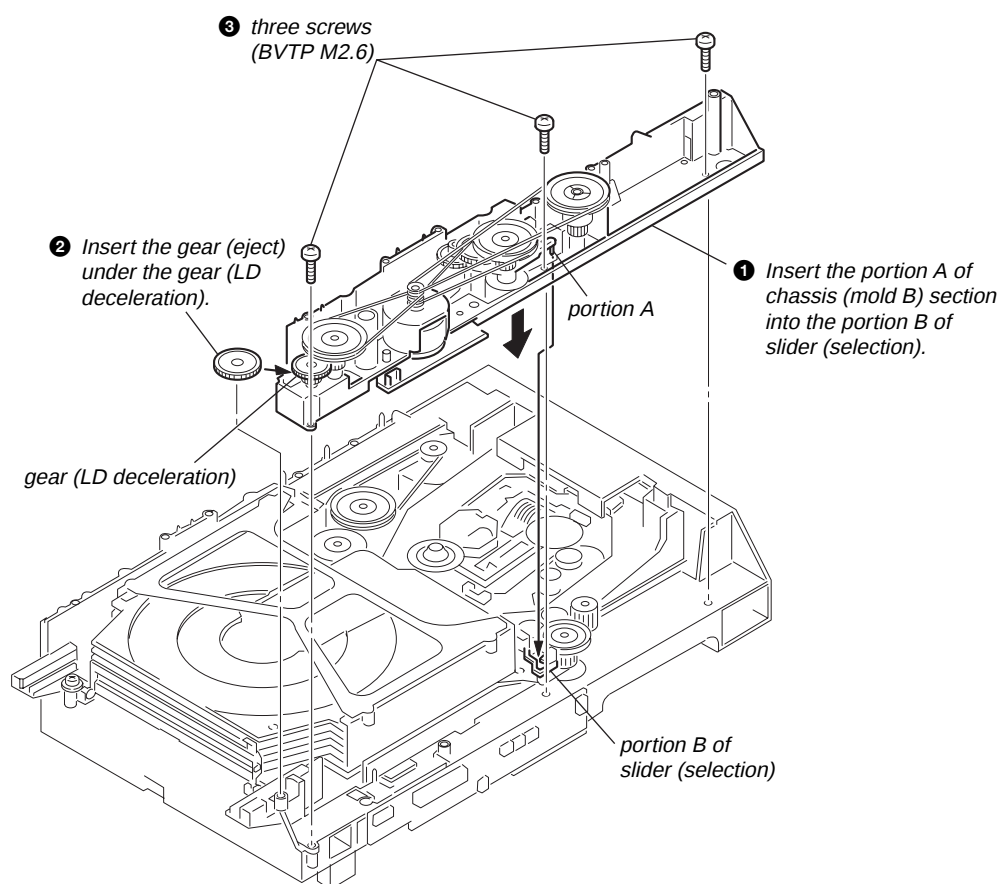
SLIDER (SELECTION) INSTALLATION



STOCKER SECTION INSTALLATION



CHASSIS (MOLD B) SECTION INSTALLATION



SECTION 4 TEST MODE

[LED All Lit, Key Check Mode]

Procedure:

1. Press the  button to turn the power ON.
2. Press three buttons of  (DECK B),  (DISC 1), and  simultaneously.
3. LEDs are all turned on.
Press the  (CD) button, and the key check mode is activated.
LEDs are all OFF.
4. When a button is pressed, the LED near the pressed button blinks or lights up.
Also, if all buttons are pressed, all LEDs light up (not blink).
5. To release from this mode, press three buttons in the same manner as step 2, or remove the power cord.

[CD Delivery Mode]

- This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the  button to turn the power ON.
2. Press the  (DECK B) and  buttons simultaneously.
3. A message "LOCK" is displayed on the liquid crystal display of the STR-NX1/NX3, and the CD delivery mode is set.

[Tape Deck Test Mode]

(In case of connected to the STR-NX1/NX3)

- If connected to the STR-NX1/NX3, the mode also acts as the STR-NX1/NX3 amplifier test mode.

Procedure:

1. Press the  button to turn the power ON.
2. Press three buttons of  (DECK B),  (DISC 1), and  simultaneously.
3. On liquid crystal display of the STR-NX1/NX3, the disc calendar blinks, and "ALC OFF" is displayed, then the function which was set before the test mode became active is displayed.
4. The automatic level control of the tape deck is in OFF status, but while the  (CD) and  buttons are pressed during recording, automatic level control goes in ON status.

[Tape Deck Test Mode]

(In case of connected to the power feed jig)

Procedure:

1. Turn on the Power switch on the power feed jig.
2. Press three buttons of  (DECK B),  (DISC 1), and  simultaneously.
3. The  (CD) and  (CD) LEDs blink, and then pressing  (CD),  /  (DECK A), or  /  (DECK B) button can make each play possible.
4. Also, the other functions are enabled by pressing two buttons simultaneously.
A combination of respective functions and buttons is as follows.

function	button
CD AMS –	 (DECK A),  (CD)
AMS +	 (DECK A),  (CD)
FR	 (DECK B),  (CD)
FF	 (DECK B),  (CD)
Deck-A REW/AMS –	 (CD),  (DECK A)
FF/AMS +	 (CD),  (DECK A)
Deck-B REW/AMS –	 (CD),  (DECK B)
FF/AMS +	 (CD),  (DECK B)

Note: Check that CD/TC signal change switch of relay connector jig is set to the TC position.

SECTION 5 MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:

record/playback heads	pinch rollers
erase head	rubber belts
capstan	idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	31 to 71 g • cm (0.43 – 0.98 oz • inch)
FWD back tension	CQ-102C	2 to 6 g • cm (0.03 – 0.08 oz • inch)
REV	CQ-102RC	31 to 71 g • cm (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	2 to 6 g • cm (0.03 – 0.08 oz • inch)
FF/REW	CQ-201B	71 to 143 g • cm (0.99 – 1.99 oz • inch)
FWD tension	CQ-403A	100 g or more (3.53 oz or more)
REV tension	CQ-403R	100 g or more (3.53 oz or more)

SECTION 6 ELECTRICAL ADJUSTMENTS

TAPE DECK SECTION

0 dB=0.775 V

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.
8. Set to the DOLBY NR OFF.
9. Set to the test mode. (See page 13)

• Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

Record/Playback Head Azimuth Adjustment

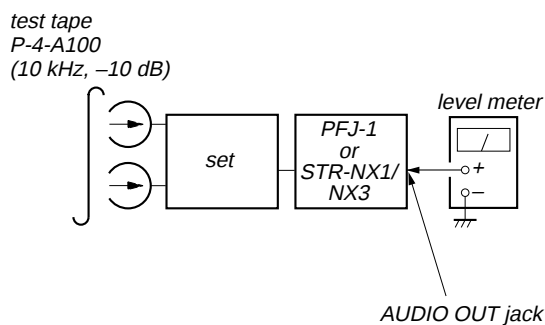
DECK A

DECK B

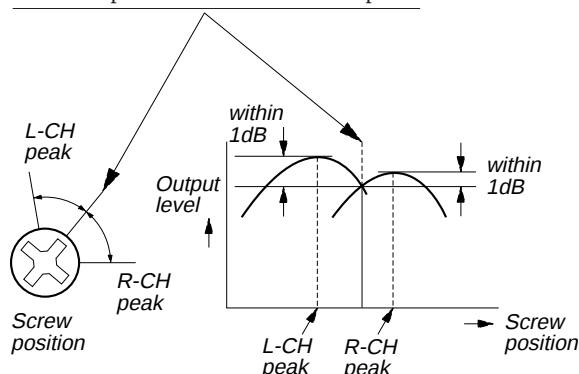
Note: Perform this adjustments for both decks

Procedure:

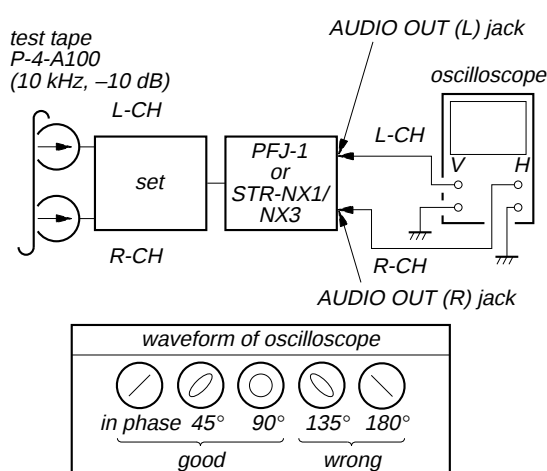
1. Mode: Playback



- Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.

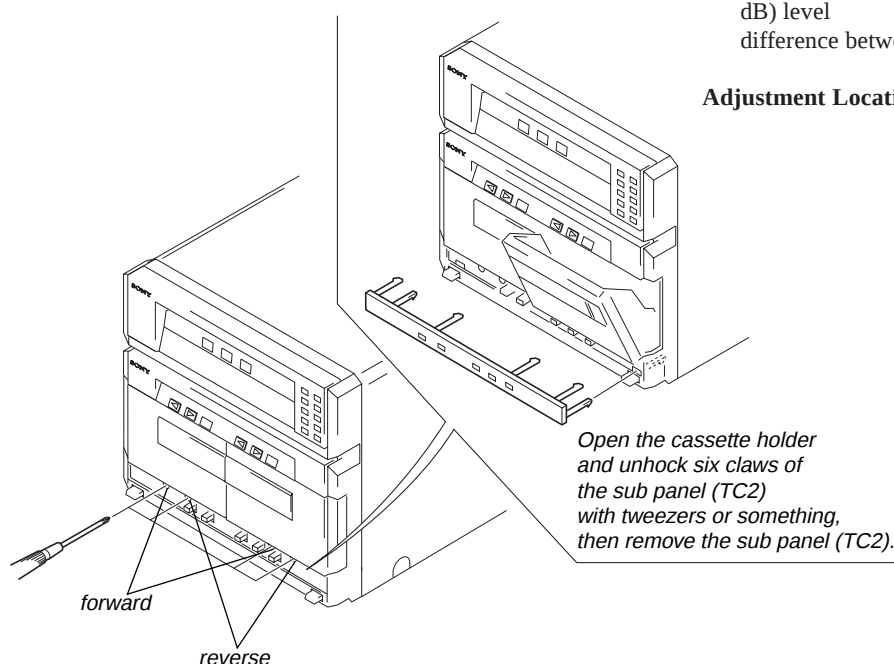


- Mode: Playback



- Repeat step 1 to 3 in playback (REV) mode.
- After the adjustments, apply suitable locking compound to the parts adjusted.

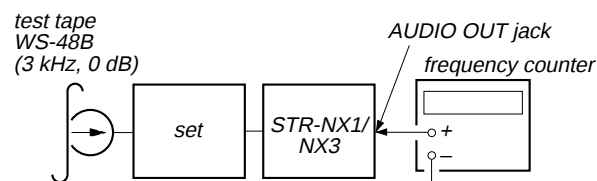
Adjustment Location: Playback Head (Deck A).
Record/Playback/Earth Head (Deck B).



Tape Speed Adjustment **DECK B**

• Execute only if connected to the STR-NX1/NX3

Mode: Playback



- Insert the WS-48B into the deck B.
- Press the **DECK B** button.
- Press the **HI-DUB** button in playback mode. Then at HIGH speed mode.
- Adjust RV1001 on the LEAF SW board so that frequency counter reads $6,000 \pm 180$ Hz.
- Press the **HI-DUB** button. Then back to NORMAL speed mode.
- Adjust RV1002 on the LEAF SW board so that frequency counter reads $3,000 \pm 90$ Hz.

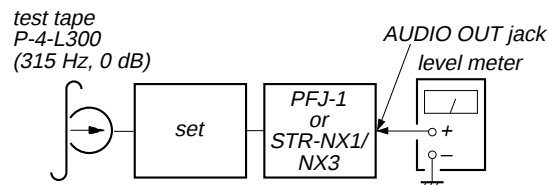
Adjustment Location: LEAF SW board

Sample value of Wow and Flutter: 0.3% or less W.RMS (JIS) (WS-48B)

Playback level Adjustment **DECK A** **DECK B**

Procedure:

Mode: Playback



Deck A is RV311 (L-CH) and RV411 (R-CH), Deck B is RV301 (L-CH) and RV401 (R-CH) so that adjustment within specified value as follows.

Specified Value:

AUDIO OUT jack PB level: 301.5 to 338.3 mV (-8.2 to -7.2 dB) level

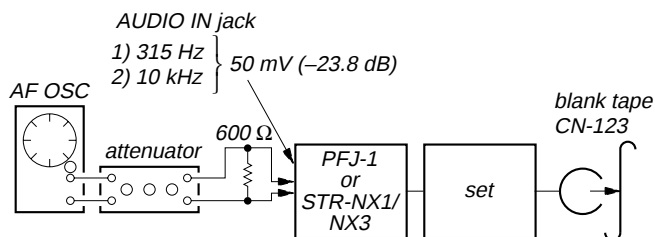
difference between the channels: within ± 0.5 dB

Adjustment Location: AUDIO board

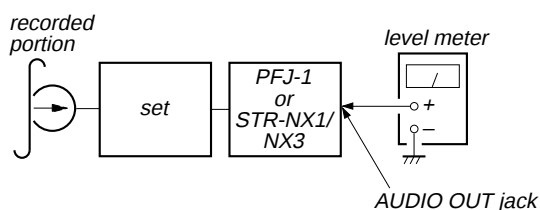
REC Bias Adjustment **DECK B**

Procedure:

1. Mode: Record



2. Mode: Playback



3. Confirm playback the signal recorded in step 1 become specified value as follows.

If these values are out of specified value, adjust the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 1 and 2.

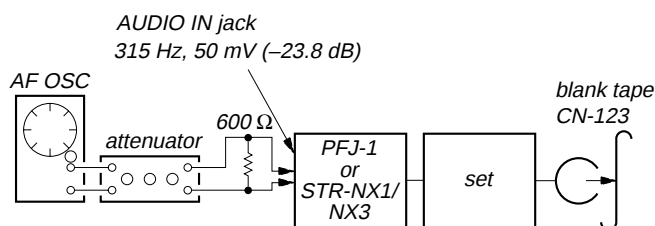
Specified value: Playback output of 315 Hz to playback output of 10 kHz: ± 0.5 dB

Adjustment Location: AUDIO board

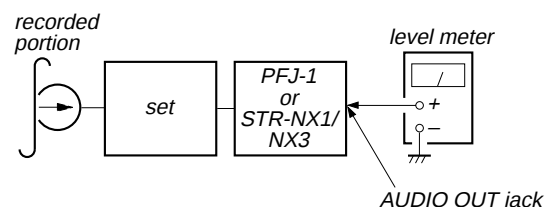
REC Level Adjustment **DECK B**

Procedure:

1. Mode: Record



2. Mode: Playback



3. Confirm playback the signal recorded in step 1 become specified value as follows.

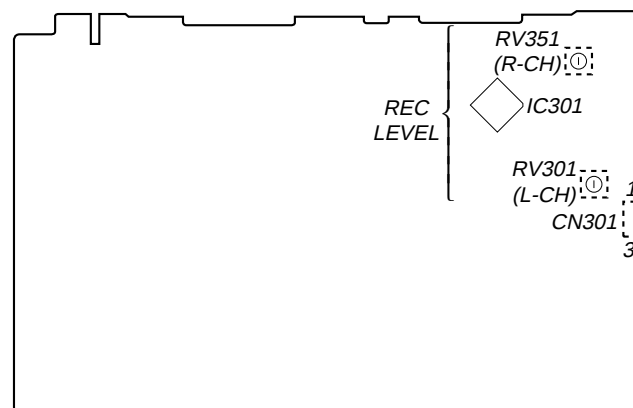
If these values are out of specified value, adjust the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 1 and 2.

Specified value:

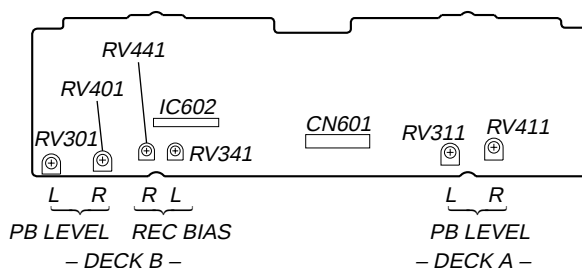
AUDIO OUT jack PB level: 47.2 to 53.0 mV (-24.3 to -23.3 dB)

Adjustment Location: MAIN board

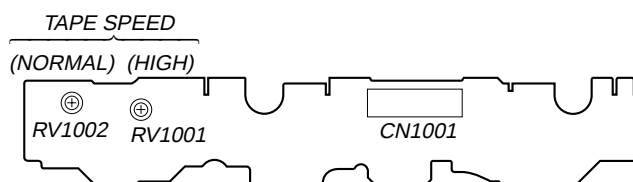
– MAIN BOARD (Conductor Side) –



– AUDIO BOARD (Component Side) –



– LEAF SW BOARD (Component Side) –

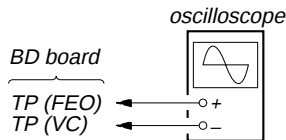


CD SECTION

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 10 M Ω impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
5. Use the following extension cables and relay connector.
 - Extension cable (19P) (Part No. J-2501-011-B)
 - Relay connector (Part No. J-2501-167-A)
(BD board CN101 to MAIN board CN111)
 - Extension cable (17P) (with connector) (Part No. J-2501-167-A)
(CONNECTOR board CN701 to MAIN board CN301)

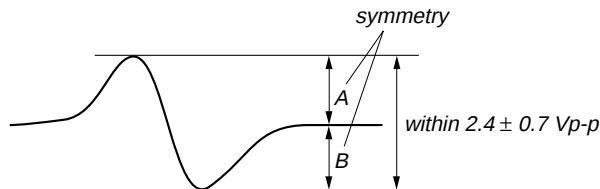
1. S-CURVE CHECK



Procedure:

1. Connect oscilloscope to TP (FEO).
2. Connect between TP (FEO) and TP (VC) by lead wire.
3. Connect between TP (AGCCON) and TP (GND) by lead wire.
4. Turn the power ON.
5. Load a disc (YEDS-18) and turn the power ON again and actuate the focus search. (Actuate the focus search when disc tray is moving in and out)
6. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2.4 ± 0.7 Vp-p.

S-curve waveform

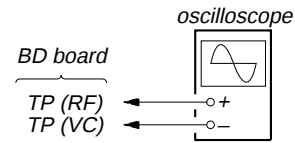


7. After check, remove the lead wire connected in step 2.

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.

2. RF LEVEL CHECK

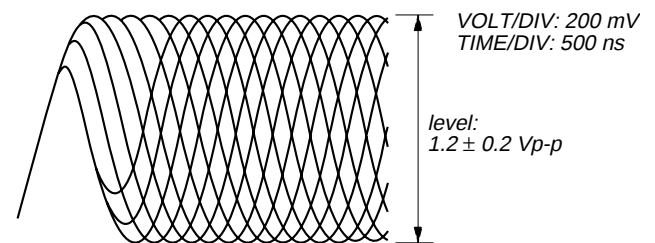


Procedure:

1. Connect oscilloscope to TP (RF).
As TP (RF) and TP (VC) are located at the edge of board, clip them together with the board using alligator clips.
2. Turn the power ON.
3. Load a disc (YEDS-18) and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

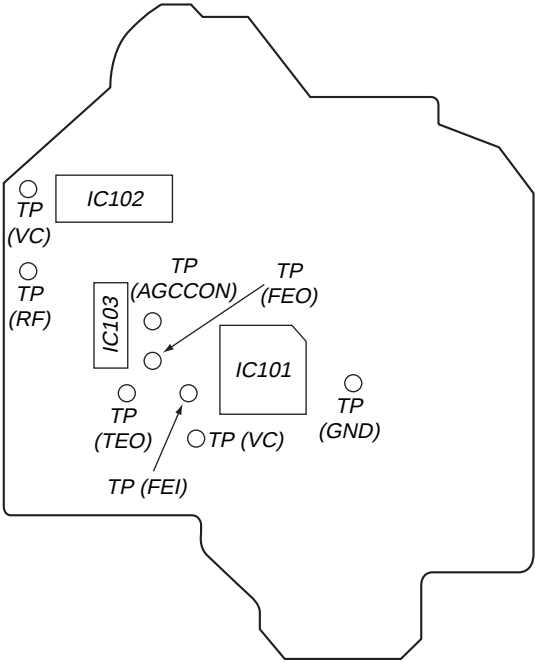
Note: Clear RF signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.

RF signal waveform

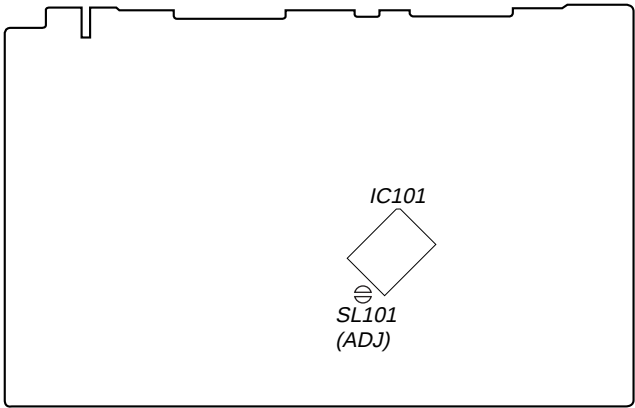


Connecting points:

– **BD BOARD** (Side B) –



– **MAIN BOARD** (Conductor Side) –



SECTION 7
DIAGRAMS

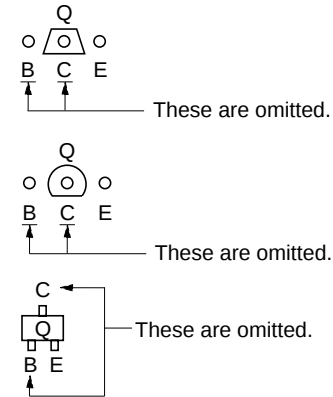
7-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS
(In addition to this, the necessary note is printed in each block)

Note on Printed Wiring Board:

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

Caution:
Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.
(Side B)
Parts face side: Parts on the parts face side seen from the parts face are indicated.
(Side A)

- Indication of transistor.



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μpF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- $\text{---}\text{---}\text{---}$: fusible resistor.
- $\text{---}\text{---}\text{---}$: panel designation.

Note:

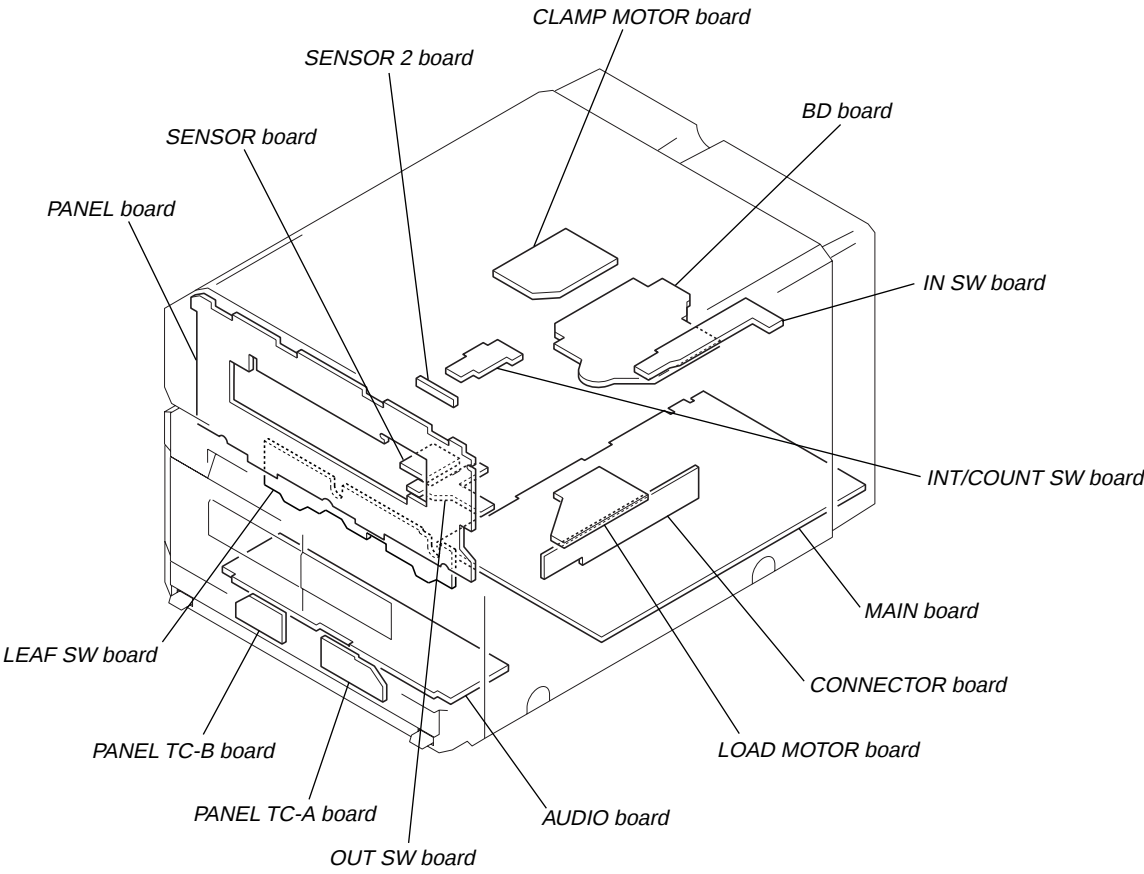
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note:

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

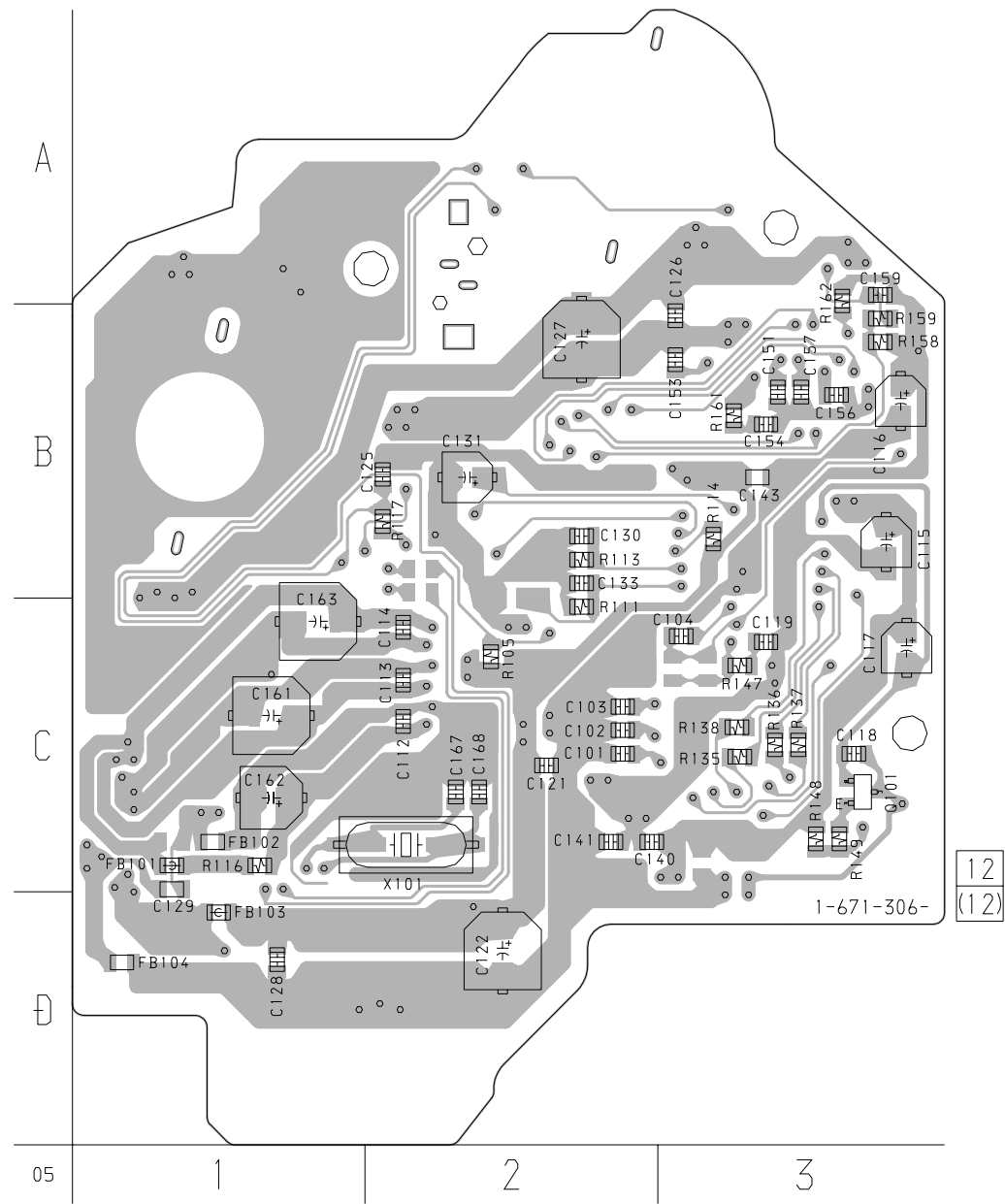
- $\text{B} +$: B+ Line.
- $\text{B} -$: B- Line.
- --- : adjustment for repair.
- Voltag es are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- --- : TAPE PLAYBACK (DECK A)
- --- : TAPE PLAYBACK (DECK B)
- --- : RECORD
- --- : CD PLAY (ANALOG OUT)
- --- : CD PLAY (DIGITAL OUT)
- Abbreviation
- AUS : Australian model
- CND : Canadian model
- JE : Tourist model
- KR : Korean model
- MY : Malaysia model
- SP : Singapore model
- TH : Thai model

• Circuit Boards Location



7-2. PRINTED WIRING BOARD – BD Board – • See page 19 for Circuit Boards Location.

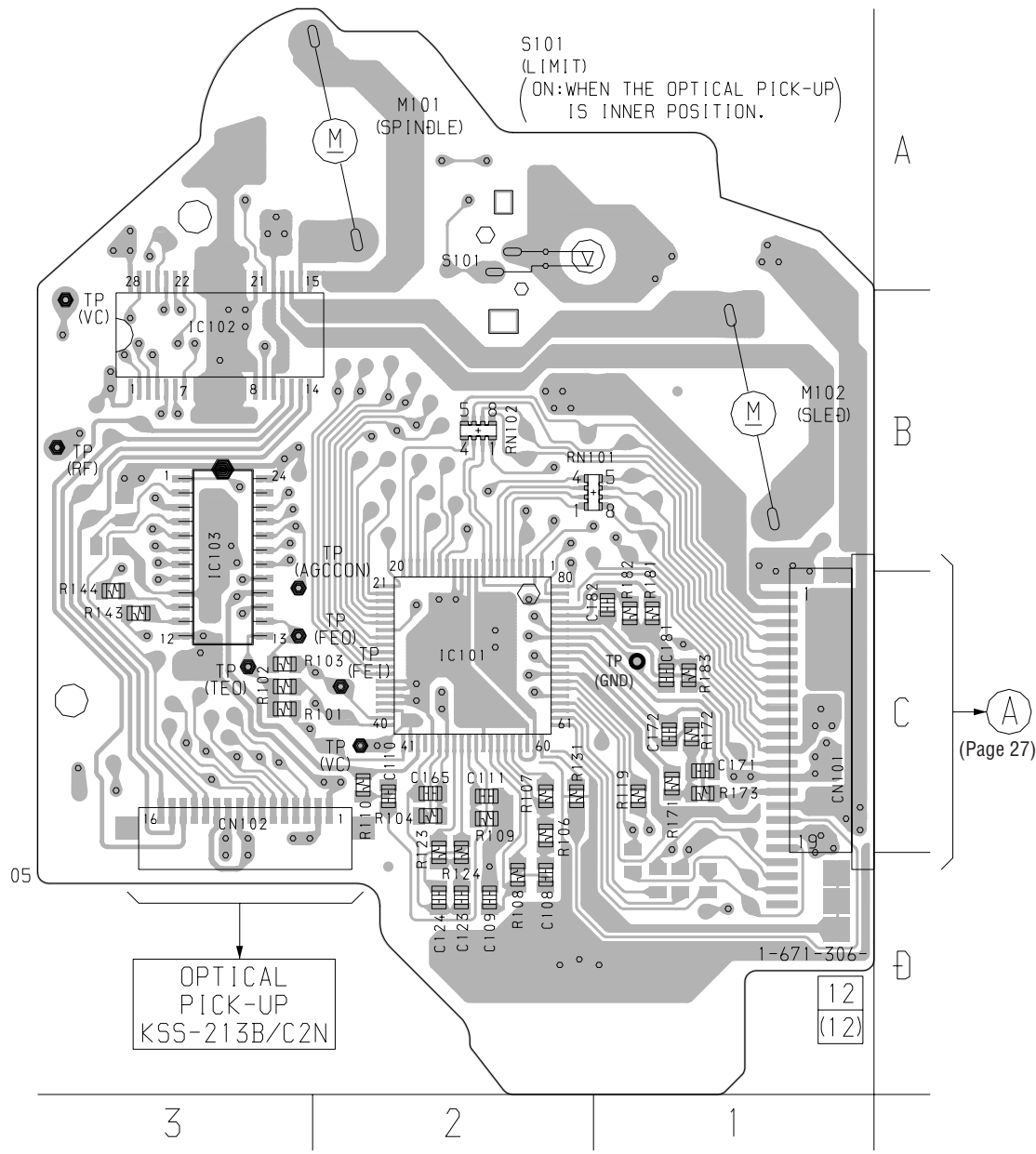
【BD BOARD】(SIDE A)



• Semiconductor Location (Side A)

Ref. No.	Location
Q101	C-3

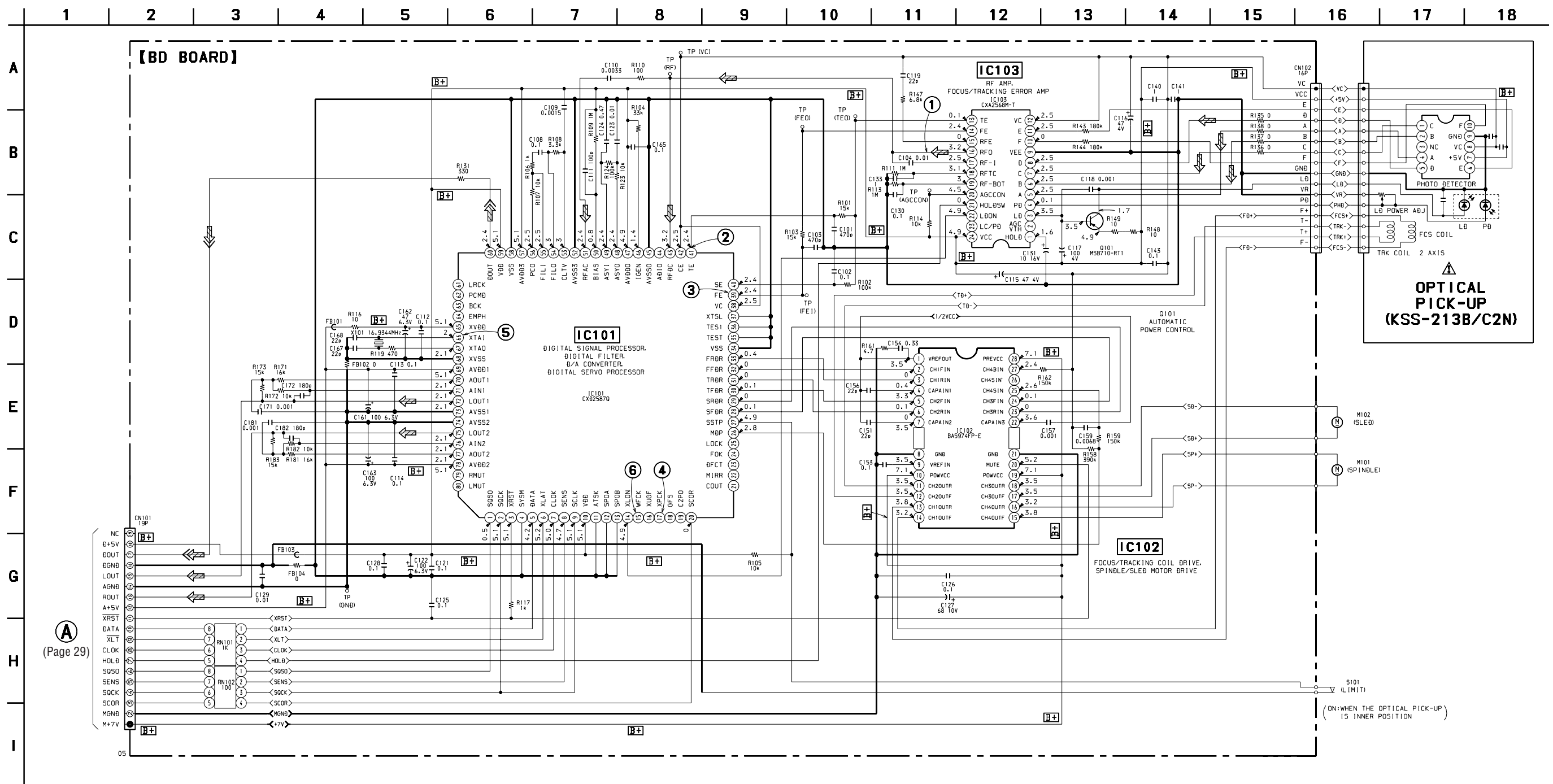
【BD BOARD】(SIDE B)



• Semiconductor Location (Side B)

Ref. No.	Location
IC101	C-2
IC102	B-3
IC103	B-3

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



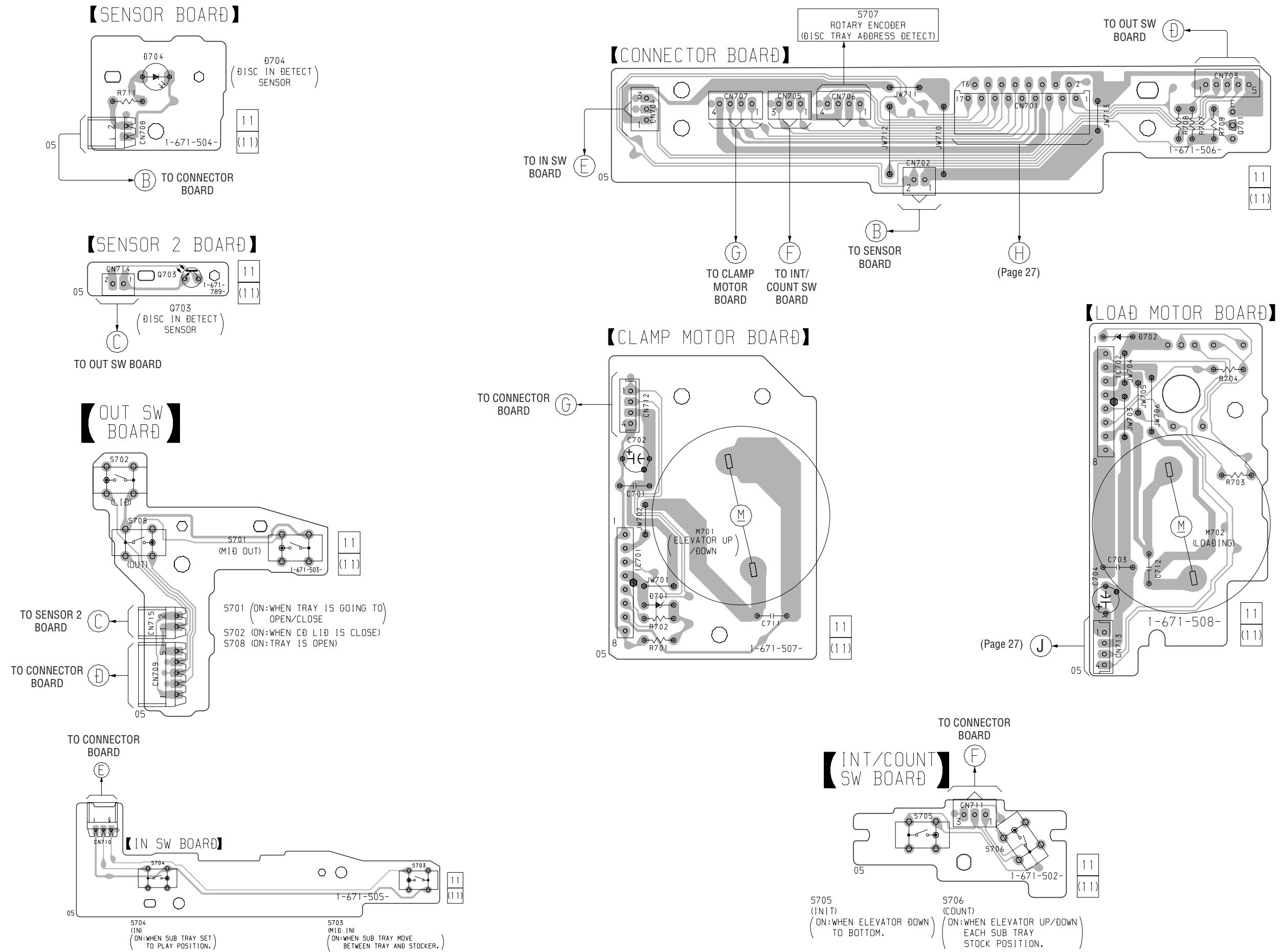
- Voltages and waveforms are dc with respect to ground under no-signal conditions.

no mark : CD PLAY

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

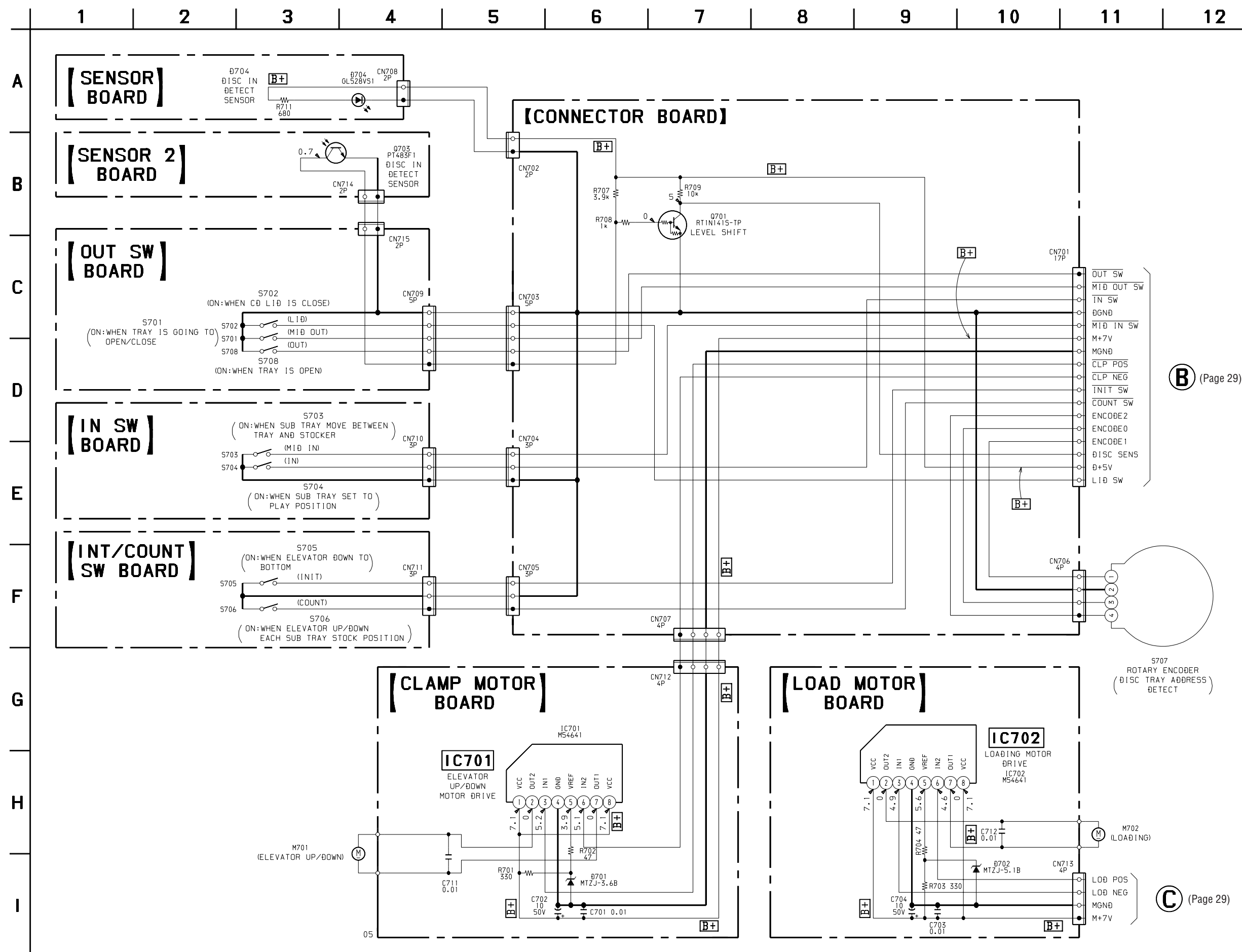
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-4. PRINTED WIRING BOARDS – CD MOTOR/SENSOR Section – • See page 19 for Circuit Boards Location.

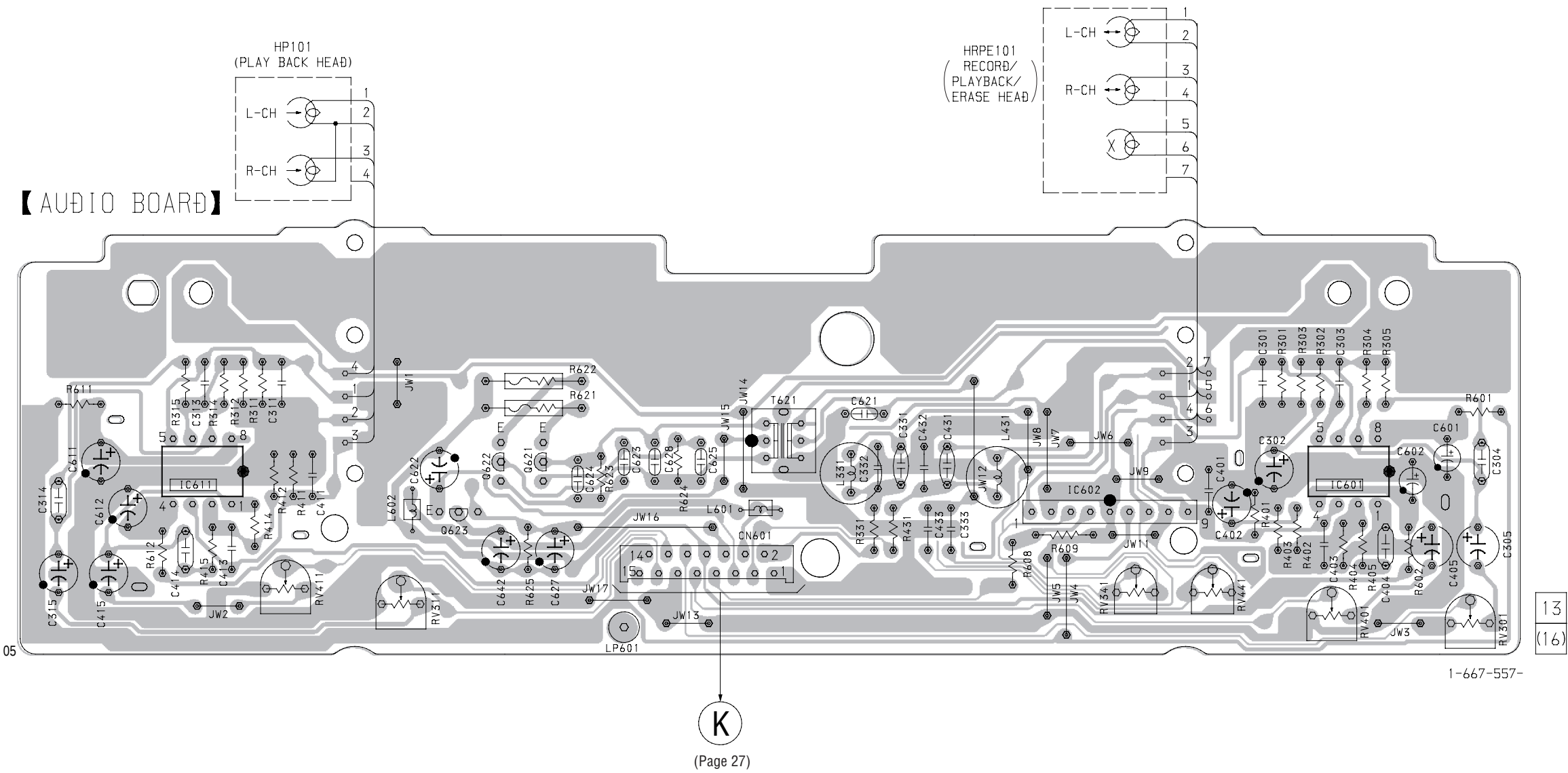


7-5. SCHEMATIC DIAGRAM – CD MOTOR/SENSOR Section – • See page 33 for IC Block Diagram.

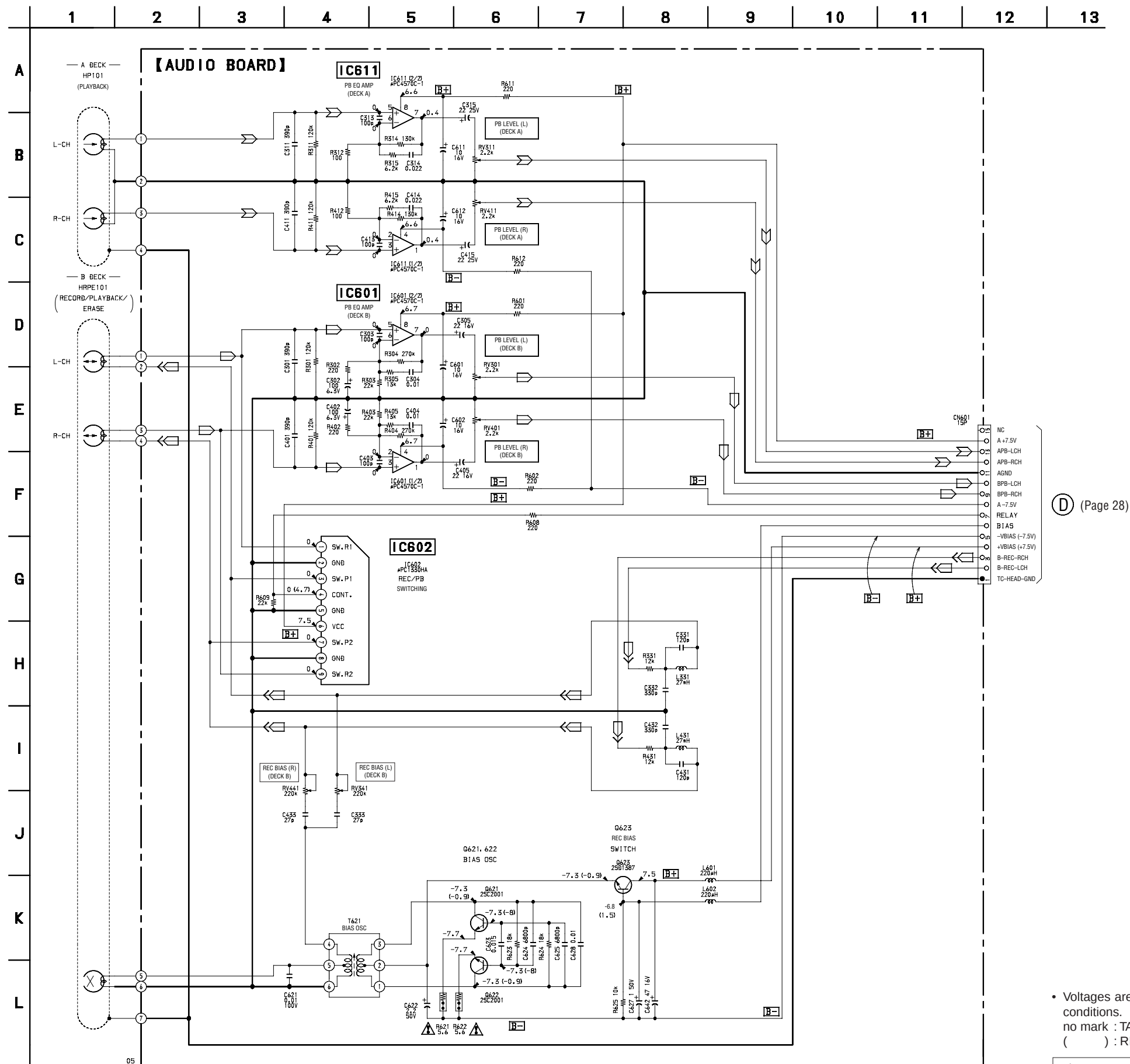
• Voltages are dc with respect to ground under no-signal conditions.
no mark : CD PLAY



7-6. PRINTED WIRING BOARD – AUDIO Board – • See page 19 for Circuit Boards Location.



7. SCHEMATIC DIAGRAM – AUDIO Board – • See page 33 for IC Block Diagram.



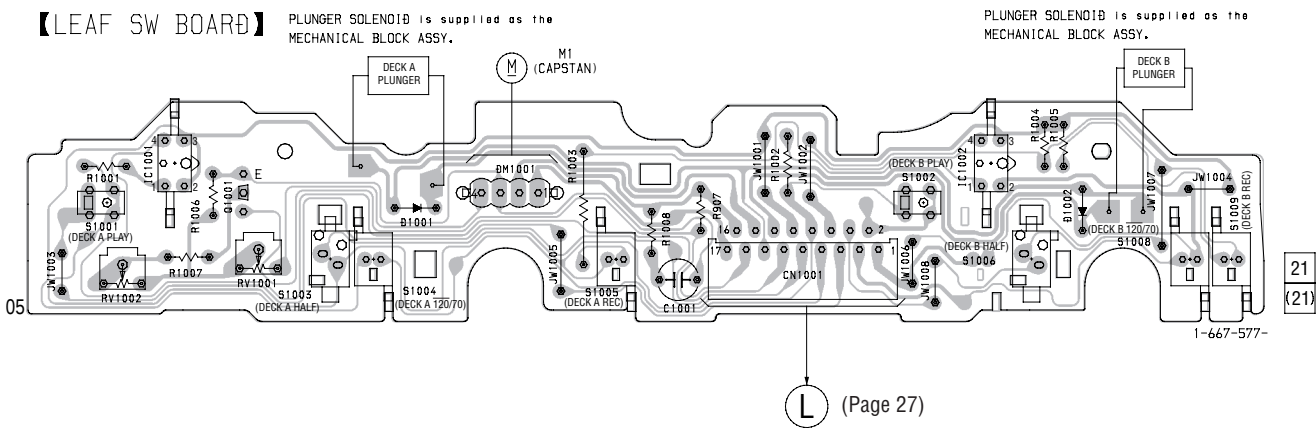
- Voltages are dc with respect to ground under no-signal conditions.

no mark : TAPE PLAYBACK
() : RECORD

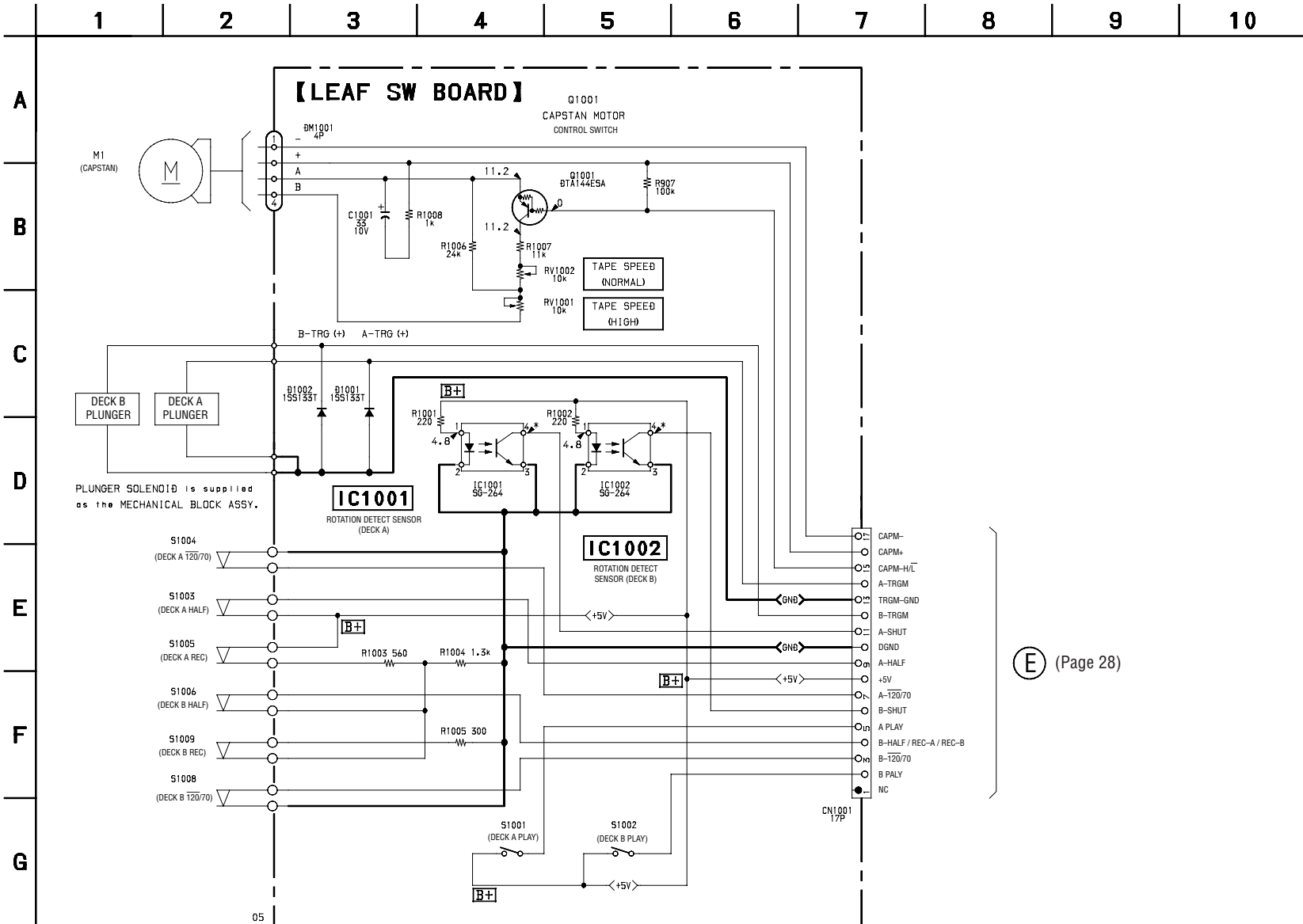
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

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

7-8. PRINTED WIRING BOARD – LEAF SW Board – • See page 19 for Circuit Boards Location.

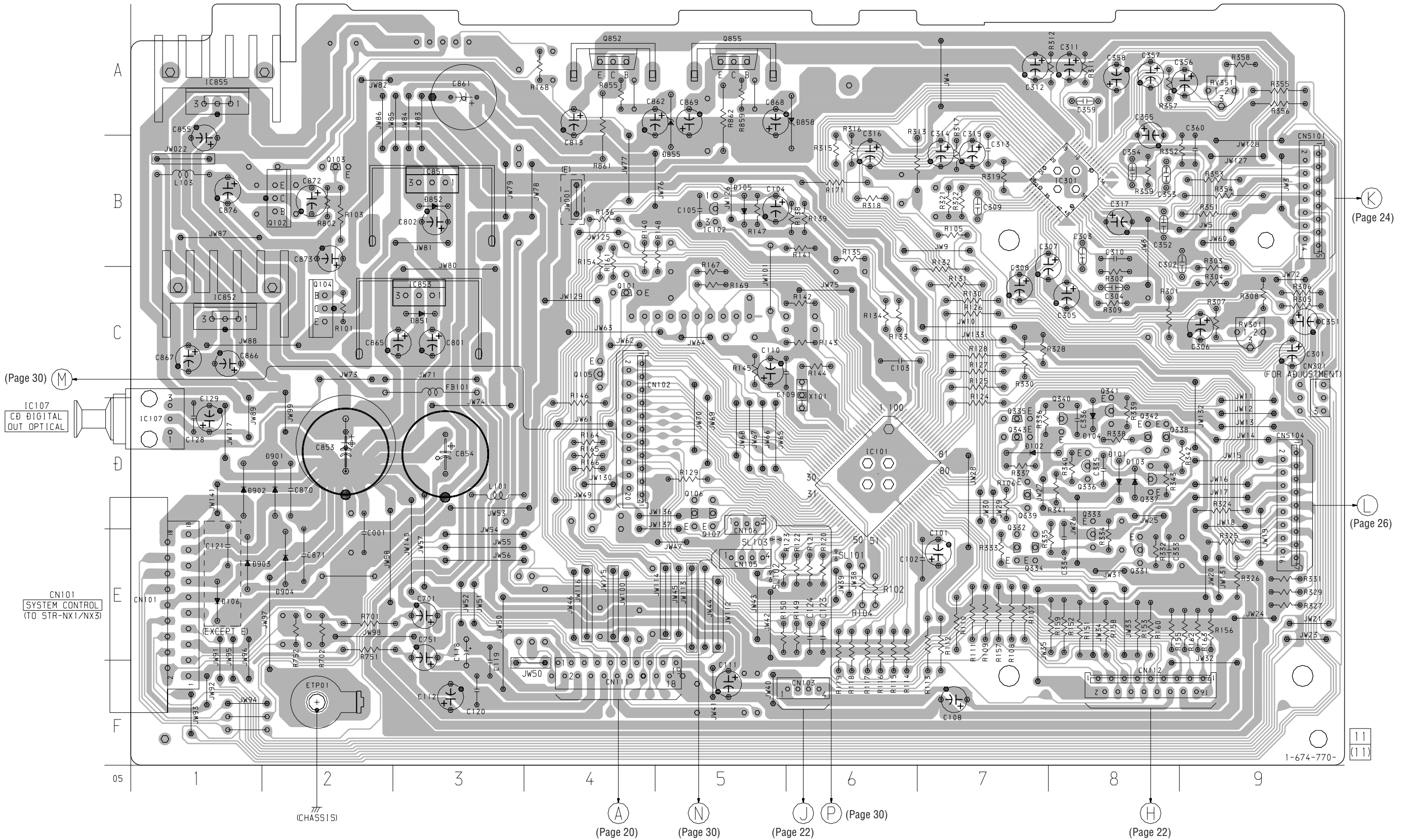


7-9. SCHEMATIC DIAGRAM – LEAF SW Board –



- Voltages are dc with respect to ground under no-signal conditions.
- no mark : TAPE PLAYBACK
- () : RECORD
- * : Impossible to measure

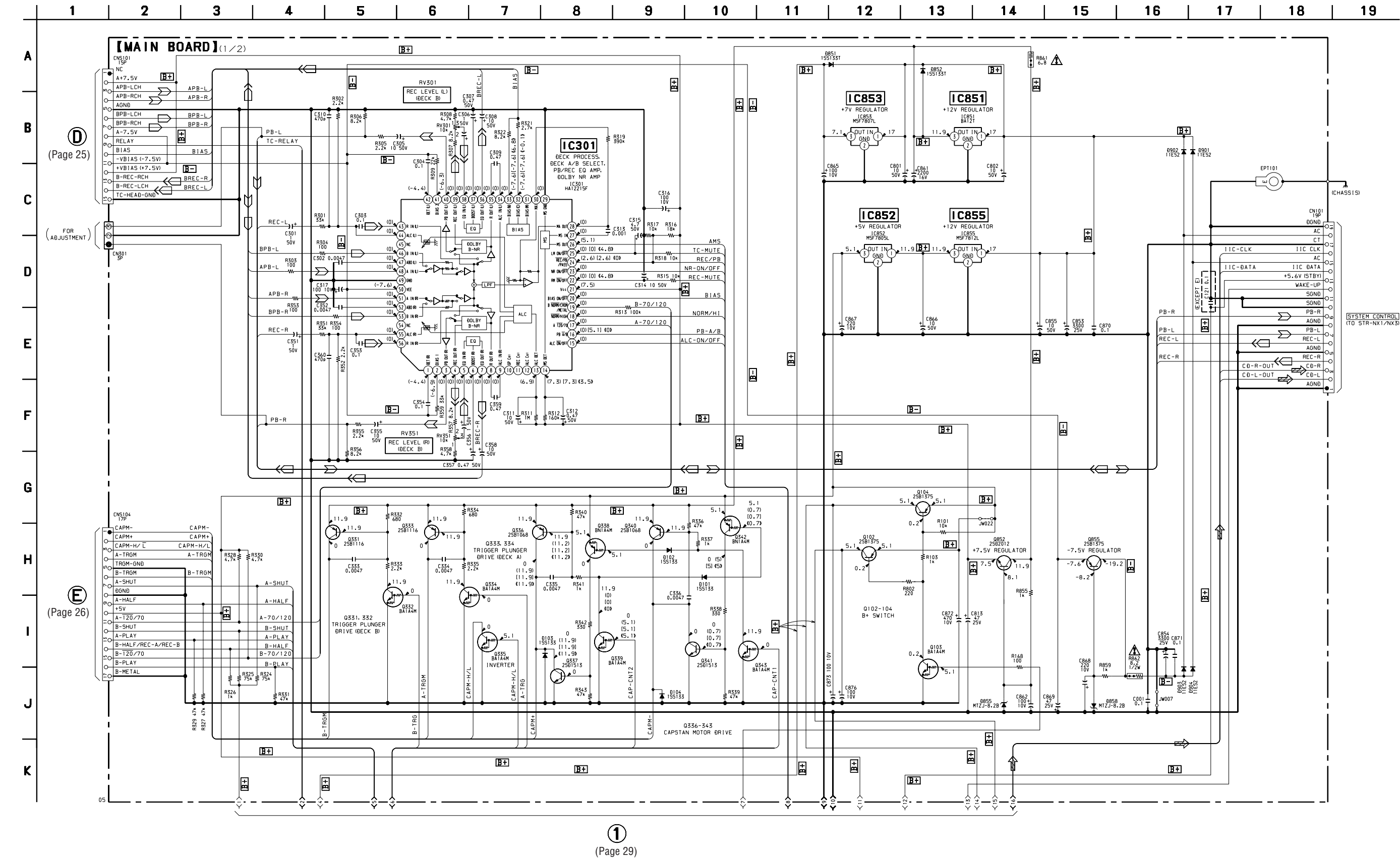
【MAIN BOARD】



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	D-8	D903	E-1	Q101	C-4	Q336	D-8
D102	D-7	D904	E-2	Q102	B-2	Q337	D-8
D103	D-8			Q103	B-2	Q338	D-8
D104	D-8	IC101	D-6	Q104	C-2	Q339	D-7
D105	B-5	IC102	B-5	Q105	C-4	Q340	D-8
D106	E-1	IC107	D-1	Q106	D-5	Q341	D-8
D851	C-3	IC301	B-8	Q107	D-5	Q342	D-8
D852	B-3	IC851	B-3	Q331	E-8	Q343	D-7
D855	A-5	IC852	C-1	Q332	E-7	Q852	A-4
D858	A-6	IC853	C-3	Q333	E-8	Q855	A-5
D901	D-2	IC855	A-1	Q334	E-7		
D902	D-1			Q335	D-7		

7-11. SCHEMATIC DIAGRAM – MAIN Board (1/2) –



- Voltages are dc with respect to ground under no-signal conditions.

no mark : CD PLAY

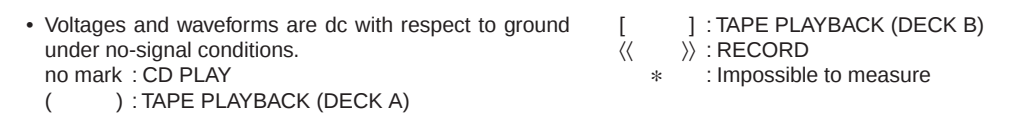
() : TAPE PLAYBACK (DECK A)

[] : TAPE PLAYBACK (DECK B)

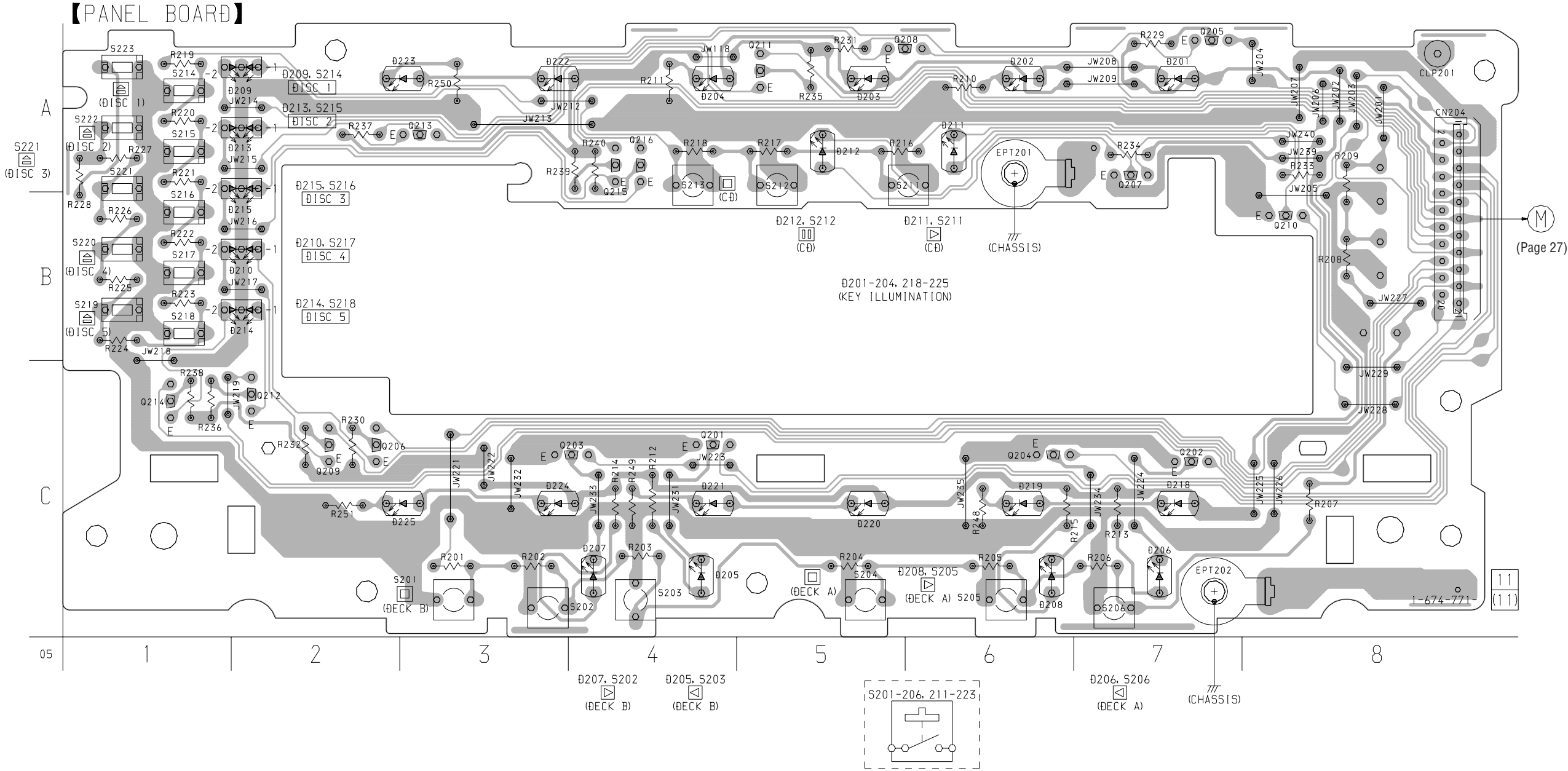
⟨ ⟩ : RECORD

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.

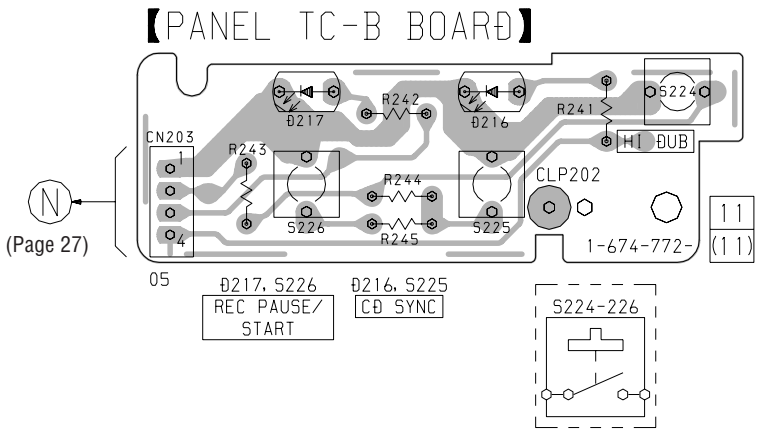
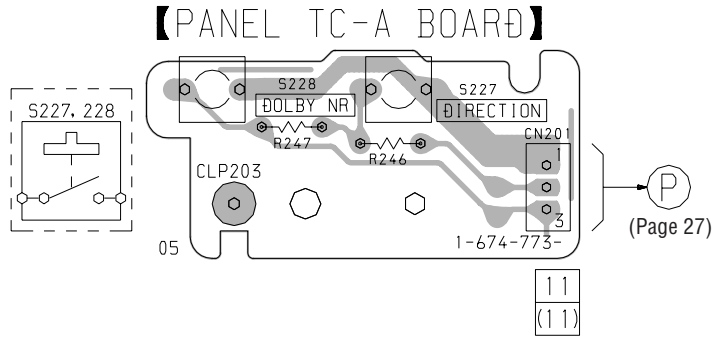


7-13. PRINTED WIRING BOARDS – PANEL Section – • See page 19 for Circuit Boards Location.

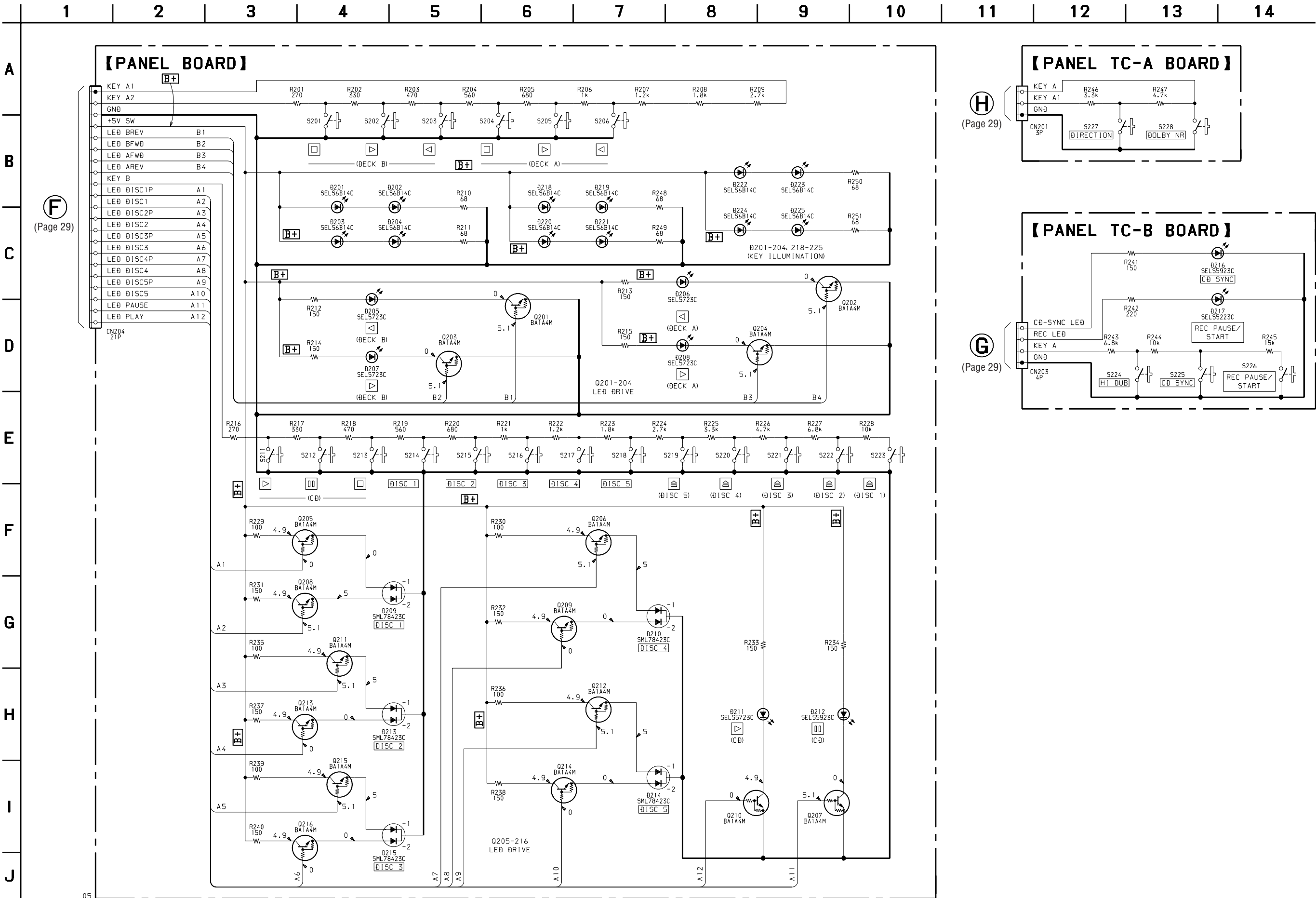


• Semiconduc
– PANEL Board –

Ref. No.	Location	Ref. No.	Location
D201	A-7	D223	A-3
D202	A-6	D224	C-3
D203	A-5	D225	C-3
D204	A-4		
D205	C-4	Q201	C-4
D206	C-7	Q202	C-7
D207	C-4	Q203	C-4
D208	C-6	Q204	C-6
D209	A-2	Q205	A-7
D210	B-2	Q206	C-2
D211	A-6	Q207	A-7
D212	A-5	Q208	A-6
D213	A-2	Q209	C-2
D214	B-2	Q210	B-8
D215	A-2	Q211	A-5
D218	C-7	Q212	C-2
D219	C-6	Q213	A-3
D220	C-5	Q214	C-1
D221	C-4	Q215	A-4
D222	A-3	Q216	A-4



7-14. SCHEMATIC DIAGRAM – PANEL Section –

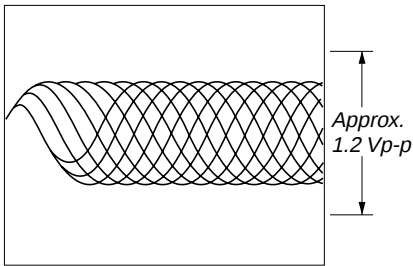


• Voltages are dc with respect to ground under no-signal conditions.
no mark : CD PLAY

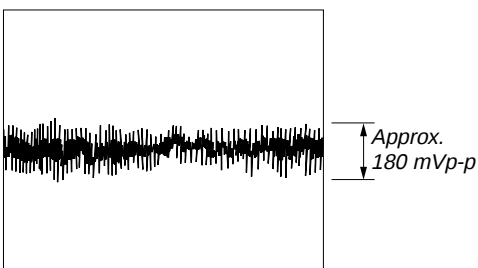
• Waveforms

– BD Board –

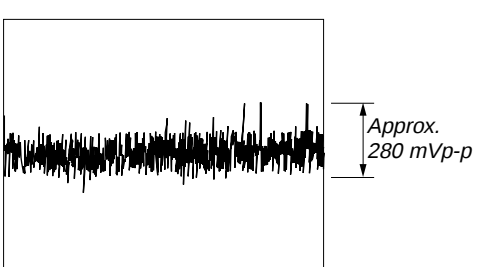
❶ IC103 ⑲ (RF O) (CD Play Mode)



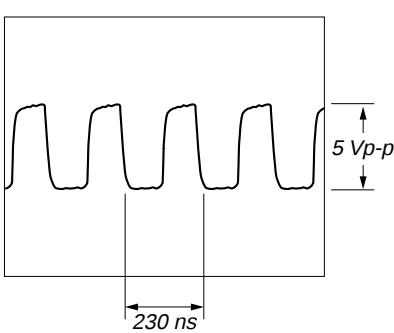
❷ IC101 ④① (TE) (CD Play Mode)



❸ IC101 ③⑨ (FE) (CD Play Mode)

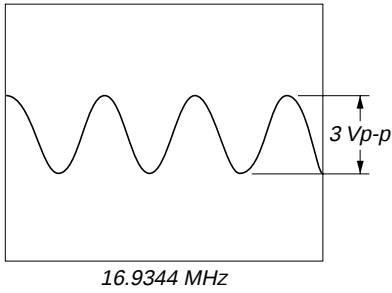


❹ IC101 ⑰ (XPCK)



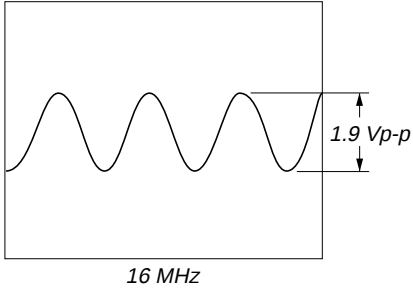
– MAIN Board –

❺ IC101 ⑥⑥ (XTAI)



– MAIN Board –

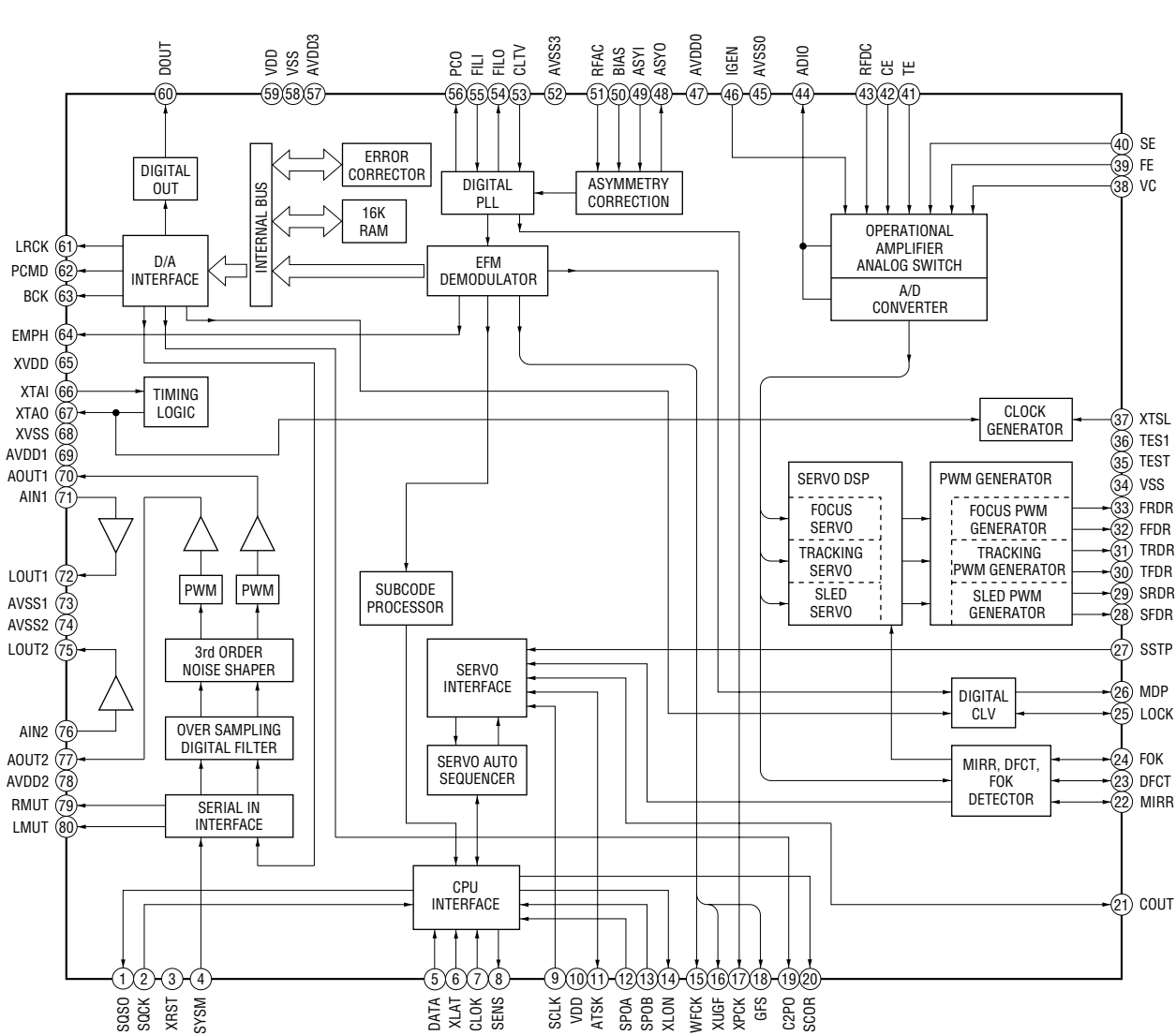
❶ IC101 ⑬ (XOUT)



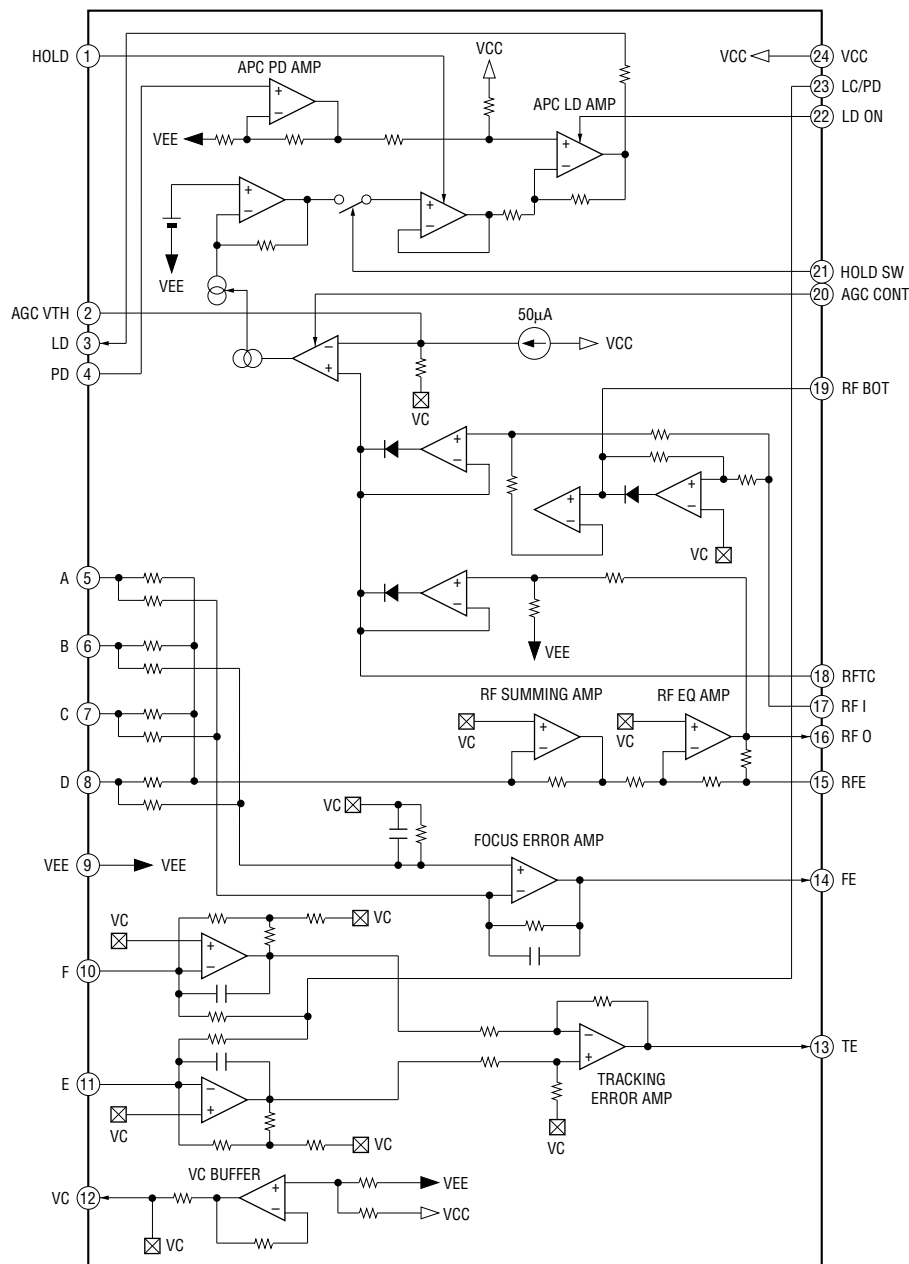
• IC Block Diagrams

– BD Board –

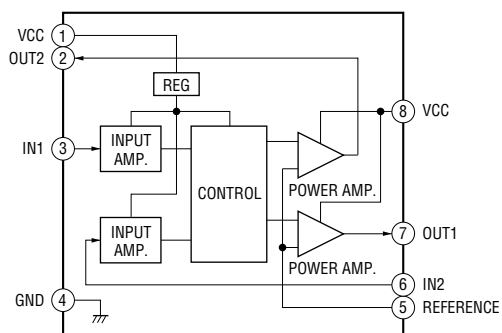
IC101 CXD2587Q



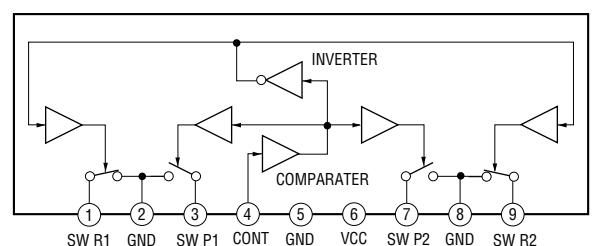
IC103 CXA2568M-T6



– CLAMP MOTOR/LOAD MOTOR Board –
 IC701 M54641L (CLAMP MOTOR Board)
 IC702 M54641L (LOAD MOTOR Board)



– AUDIO Board –
 IC602 μPC1330HA



7-15. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC101 M30622MA-A13FP (SYSTEM CONTROLLER (CD MECHANISM CONTROL))

Pin No.	Pin Name	I/O	Description
1	CD DATA	O	Serial data output to the CXD2587Q (IC101) on the CD block
2	CD CLK	O	Serial data transfer clock signal output to the CXD2587Q (IC101) on the CD block
3	$\overline{\text{XLT}}$	O	Serial data latch pulse output to the CXD2587Q (IC101) on the CD block
4	$\overline{\text{XRST}}$	O	Reset signal output to the CXD2587Q (IC101) and BA5974FP (IC102) on the CD block “L”: reset
5	NC	O	Not used (open)
6	SQ DATA IN	I	Subcode Q data input from the CXD2587Q (IC101) on the CD block
7	SQ CLK	O	Subcode Q data reading clock signal output to the CXD2587Q (IC101) on the CD block
8	BYTE	I	External data bus line byte selection signal input terminal Fixed at “L” in this set
9	CNVSS	—	Ground terminal
10	XCIN	I	Sub system clock input terminal Not used (fixed at “L”)
11	XCOUT	O	Sub system clock output terminal Not used (open)
12	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator (IC102) “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
13	XOUT	O	Main system clock output terminal (16 MHz)
14	VSS	—	Ground terminal
15	XIN	I	Main system clock input terminal (16 MHz)
16	VDD	—	Power supply terminal (+5V)
17	NMI	I	Non-maskable interrupt input terminal Fixed at “H” in this set
18	WAKE UP	I	Wakeup control signal input from the CPU in the STR-NX1/NX3 “H” active
19	SCOR	I	Subcode sync (S0+S1) detection signal input from the CXD2587Q (IC101) on the CD block
20	LED POWER CTRL	O	Power on/off control signal output of the key illumination LED (D201 to D204, D218 to D225) “H”: LED on
21	SENSE	I	Internal status detection monitor input from the CXD2587Q (IC101) on the CD block
22	CD HOLD	O	Laser power control signal output to the CXA2568M (IC103) on the CD block
23	LED A5	O	LED drive signal output of the DISC 5 indicator (D214) (for amber color)
24	LED G5	O	LED drive signal output of the DISC 5 indicator (D214) (for red color)
25	LED A4	O	LED drive signal output of the DISC 4 indicator (D210) (for amber color)
26	LED G4	O	LED drive signal output of the DISC 4 indicator (D210) (for red color)
27	LED A3	O	LED drive signal output of the DISC 3 indicator (D215) (for amber color)
28	LED G3	O	LED drive signal output of the DISC 3 indicator (D215) (for red color)
29	IIC CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the CPU in the STR-NX1/NX3
30	IIC DATA	I/O	Communication data bus with the CPU in the STR-NX1/NX3
31	TXD1	O	Not used (open)
32	RXD1	I	Not used (fixed at “L”)
33	CLK1	I	Not used (fixed at “L”)
34	RTS1	O	Not used (open)
35	LED A2	O	LED drive signal output of the DISC 2 indicator (D213) (for amber color)
36	LED G2	O	LED drive signal output of the DISC 2 indicator (D213) (for red color)
37	LED A1	O	LED drive signal output of the DISC 1 indicator (D209) (for amber color)
38	LED G1	O	LED drive signal output of the DISC 1 indicator (D209) (for red color)
39	SOFT CHECK	O	Output terminal for the software check Not used (open)
40	LED G CDPS	O	LED drive signal output of the 00 (CD) indicator (D212) “L”: LED on
41	XHOLD	I	Not used (fixed at “L”)

Pin No.	Pin Name	I/O	Description
42	LED A CDPL	O	LED drive signal output of the ▷ (CD) indicator (D211) “L”: LED on
43	LED A RECP	O	LED drive signal output terminal Not used (open)
44	LED R RECP	O	LED drive signal output of the REC PAUSE/START indicator (D217) “H”: LED on
45	LED SYNC	O	LED drive signal output of the CD SYNC indicator (D216) “H”: LED on
46	XWR	I	Not used (fixed at “H”)
47	SOFT MODE1	I	Destination setting terminal (normally: fixed at “L”)
48	SOFT MODE0	I	Destination setting terminal (normally: fixed at “L”)
49	$\overline{\text{CD ADJ}}$	I	Setting terminal for the CD test mode Normally: fixed at “H” (“L”: test mode)
50	LED TCB R	O	LED drive signal output of the ◁ (DECK B) indicator (D205) “L”: LED on
51	LED TCB F	O	LED drive signal output of the ▷ (DECK B) indicator (D207) “L”: LED on
52	LED TCA R	O	LED drive signal output of the ◁ (DECK A) indicator (D206) “L”: LED on
53	LED TCA F	O	LED drive signal output of the ▷ (DECK A) indicator (D208) “L”: LED on
54	AMUTE	O	Analog line muting on/off control signal output terminal “H”: line muting on Not used (open)
55	CD-POWER	O	Power on/off control signal output of the CD mechanism deck section “L”: standby mode, “H”: power on
56	PRTC SW	I	Detection input from the CD tray door open/close detect switch (S702) “L”: when CD lid is open, “H”: when CD lid is close
57	$\overline{\text{INIT SW}}$	I	Detection input from the INIT detection switch (S705) on the CD mechanism block “L”: when elevator down to bottom, others: “H”
58	$\overline{\text{OUT SW}}$	I	Detection input from the tray open/close detect switch (S708) on the CD mechanism block “L”: when tray is open, “H”: when tray is close
59	$\overline{\text{IN SW}}$	I	Detection input from the tray open/close detect switch (S704) on the CD mechanism block “L”: when tray is close, “H”: when tray is open
60	$\overline{\text{MIDOUT SW}}$	I	Detection input from the mid out detect switch (S701) on the CD mechanism block “L”: when tray is going to open or close
61	$\overline{\text{MIDIN SW}}$	I	Detection input from the mid in detect switch (S703) on the CD mechanism block “L”: when sub tray move between tray and stocker
62	VCC	—	Power supply terminal (+5V)
63	$\overline{\text{LOD-NEG}}$	O	CD loading motor (M702) control signal output to the motor driver IC (IC702) “L” active *1
64	VSS	—	Ground terminal
65	$\overline{\text{LOD-POS}}$	O	CD loading motor (M702) control signal output to the motor driver IC (IC702) “L” active *1
66	$\overline{\text{CLP-NEG}}$	O	CD elevator up/down motor (M701) control signal output to the motor driver IC (IC701) “L” active *2
67	$\overline{\text{CLP-POS}}$	O	CD elevator up/down motor (M701) control signal output to the motor driver IC (IC701) “L” active *2
68 to 70	ENC2, ENC1,ENC0	I	Detection input from the disc tray address detect rotary encoder (S707) on the CD mechanism block
71	TC-RELAY	O	Recording/playback select signal output to the REC/PB switch (IC602) “L”: playback, “H”: recording
72	B-TRG	O	Deck-B side trigger plunger drive signal output terminal “H”: plunger on
73	A-TRG	O	Deck-A side trigger plunger drive signal output terminal “H”: plunger on

*1 CD loading motor (M702) control

Terminal \ Mode	Loading	Eject	Stop	Brake
$\overline{\text{LOD-NEG}}$ (pin 63)	“L”	“H”	“H”	“L”
$\overline{\text{LOD-POS}}$ (pin 65)	“H”	“L”	“H”	“L”

*2 CD elevator up/down motor (M701) control

Terminal \ Mode	Elevator Up	Elevator Down	Stop	Brake
$\overline{\text{CLP-NEG}}$ (pin 66)	“L”	“H”	“H”	“L”
$\overline{\text{CLP-POS}}$ (pin 67)	“H”	“L”	“H”	“L”

Pin No.	Pin Name	I/O	Description
74	CAPM-CNT2	O	Capstan motor (M1) drive signal output terminal “H” active *3
75	CAPM-CNT1	O	Capstan motor (M1) drive signal output terminal “H” active *3
76	CAP-M-H/L	O	High/normal speed selection signal output of the capstan motor (M1) “L”: normal speed, “H”: high speed
77	AMS-IN	I	Whether a music is present or not from the HA12215F (IC301) is detected an automatic music sensor “L”: music is present, “H”: music is not present
78	TC-MUTE	O	Line muting on/off selection signal output to the HA12215F (IC301) “L”: muting off, “H”: muting on
79	REC/PB/PASS	O	Recording/playback/pass selection signal output to the HA12215F (IC301) “L”: recording mode, “H”: pass, “Hi-z”: playback mode
80	DOLBY NR	O	Dolby NR on/off selection signal output to the HA12215F (IC301) “L”: dolby off, “H”: dolby on
81	REC-MUTE	O	Recording muting on/off selection signal output to the HA12215F (IC301) “L”: muting on, “H”: muting off
82	BIAS	O	Recording bias on/off selection signal output to the HA12215F (IC301) “L”: bias off, “H”: bias on
83	EQ-H/N	O	Normal/high speed selection signal output to the HA12215F (IC301) “L”: normal speed, “H”: high speed
84	PB-A/B	O	Deck-A/B selection signal output to the HA12215F (IC301) “L”: deck-A, “H”: deck-B
85	ALC	O	Automatic limiter control signal output to the HA12215F (IC301) “L”: limiter on
86	B-PLAY-SW	I	Detection input from the deck-B play detect switch (S1002) “H”: deck-B play
87	A-PLAY-SW	I	Detection input from the deck-A play detect switch (S1001) “H”: deck-A play
88	A-HALF	I	Detection input from the deck-A cassette detect switch (S1003) “L”: cassette in, “H”: no cassette
89	B-HALF	I	Detection input from the deck-B half detect switch (S1006)
90	B-SHUT	I	Shut off detection signal input from the deck-B side reel pulse detector (IC1002)
91	A-SHUT	I	Shut off detection signal input from the deck-A side reel pulse detector (IC1001)
92	DISC-SENS	I	Detection input from the disc in detect sensor (D704 and Q703) on the CD mechanism block “H”: disc detected
93	CNT-SW	I	Detection input from the count detect switch (S706) on the CD mechanism block “L”: when elevator up/down each sub tray stock position
94	MODEL-IN	I	Destination setting terminal
95	KEY1	I	Key input terminal (A/D input) S211 to S223 (▷/◻/◻ (CD), DISC 1/2/3/4/5, ≡ (DISC 5/4/3/2/1)) keys input
96	AVSS	—	Ground terminal (for A/D conversion)
97	KEY0	I	Key input terminal (A/D input) S201 to S206, S224 to S228 (◻/▷/◻ (DECK B), ◻/▷/◻ (DECK A), HI DUB, CD SYNC, REC PAUSE/START, DIRECTION, DOLBY NR) keys input
98	VREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
99	AVCC	—	Power supply terminal (+5V) (for A/D conversion)
100	NC	I	Not used (fixed at “L”)

*3 Capstan motor (M1) control

Terminal \ Mode	Stop	Forward Direction	Reverse Direction	Brake
CAPM-CNT2 (pin 74)	“L”	“H”	“L”	“H”
CAPM-CNT1 (pin 75)	“L”	“L”	“H”	“H”

SECTION 8

EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts

Example:

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

Parts Color Cabinet's Color

- Abbreviation

AUS : Australian model

MY : Malaysia model

CND : Canadian model

SP : Singapore model

JE : Tourist model

TH : Thai model

KR : Korean model

- 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.

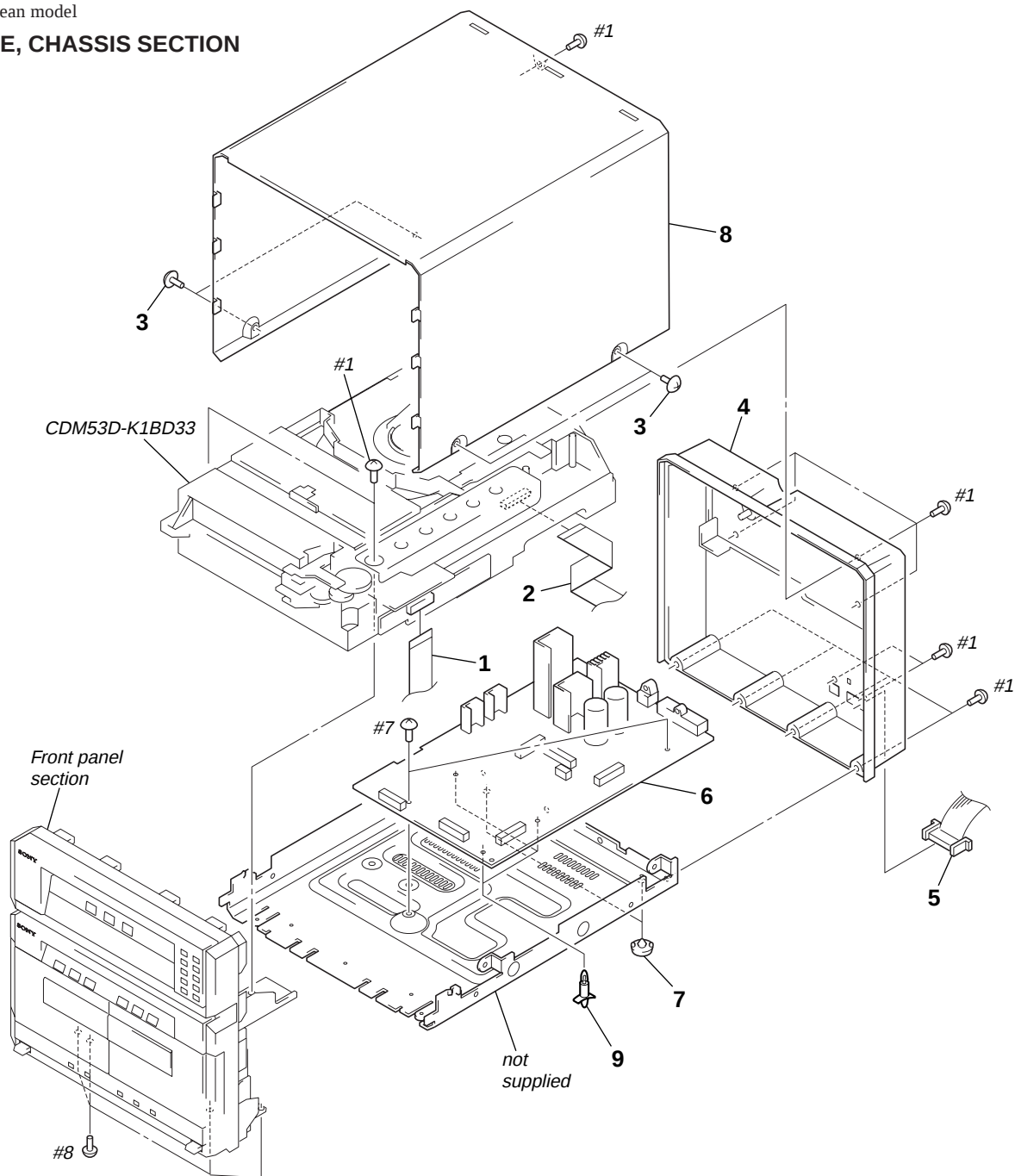
- Hardware (# mark) list is given in the last of the electrical parts list.

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  sont critiques pour la
sécurité.

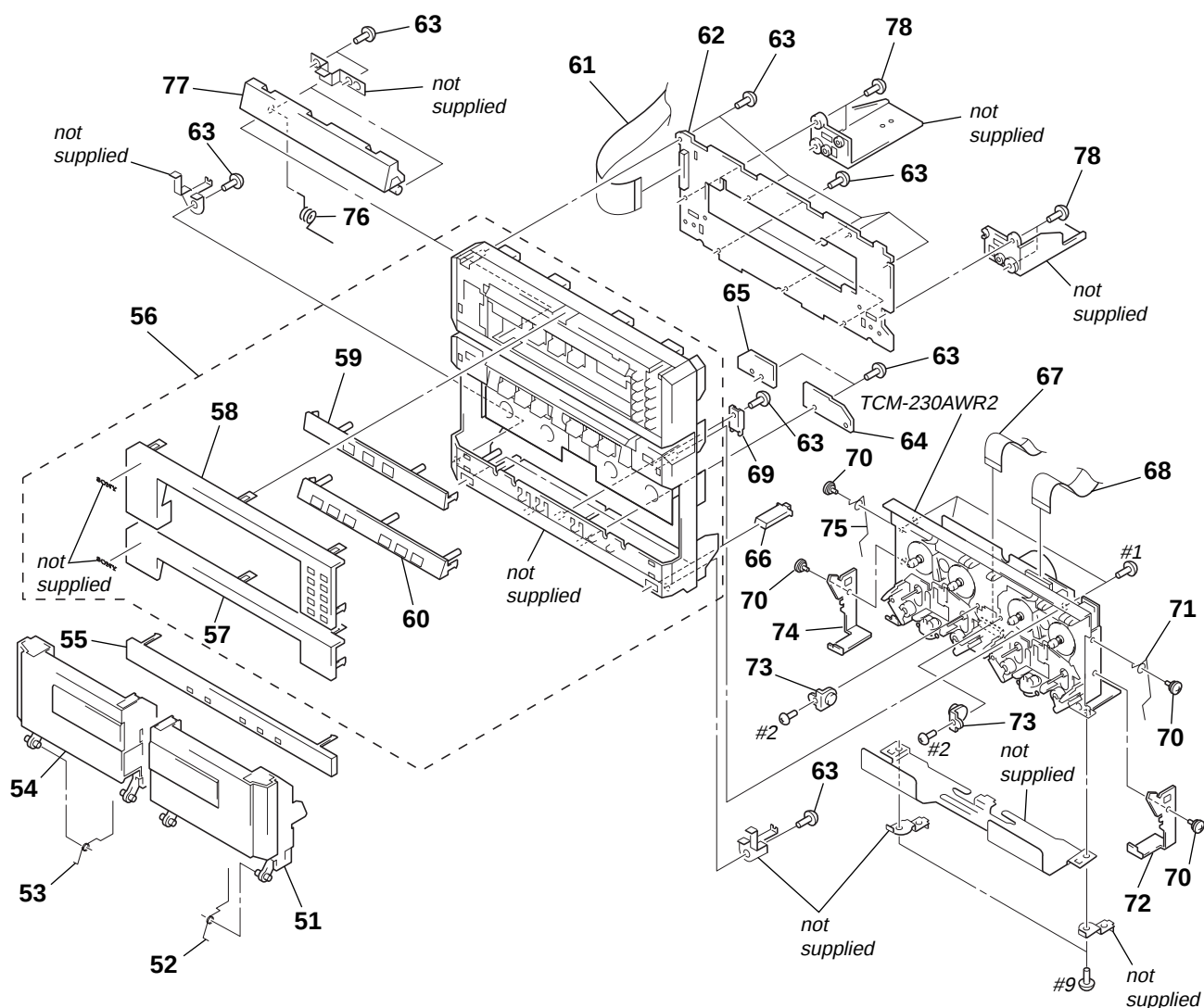
Ne les remplacer que par une pièce portant le numéro spécifié.

(1) CASE, CHASSIS SECTION



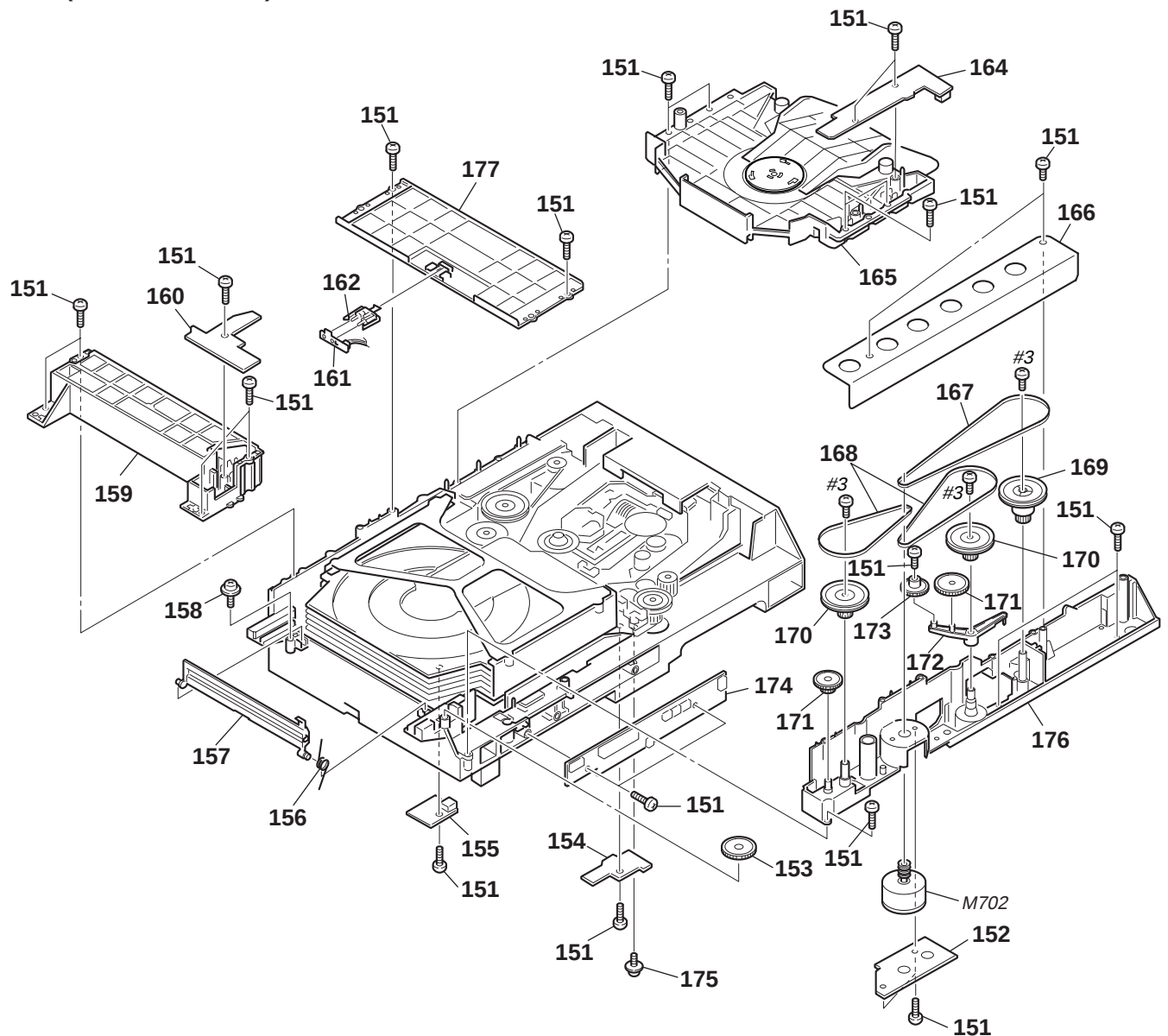
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	1-773-040-11	WIRE (FLAT TYPE) (17 CORE) (12cm)		6	A-4426-608-A	MAIN BOARD, COMPLETE (US, CND, AEP, UK)	
2	1-791-433-11	WIRE (FLAT TYPE) (19 CORE)		6	A-4426-609-A	MAIN BOARD, COMPLETE	
3	3-363-099-11	SCREW (CASE 3 TP2)				(MY, SP, KR, AUS, JE)	
4	4-221-455-01	PANEL, BACK (EXCEPT US)		6	A-4426-945-A	MAIN BOARD, COMPLETE (TH)	
4	4-221-455-11	PANEL, BACK (US)		7	4-965-822-01	FOOT	
				8	4-221-365-31	CASE	
5	1-791-075-11	CORD, CONNECTION		* 9	4-924-098-51	HOLDER, PC BOARD	

(2) FRONT PANEL SECTION



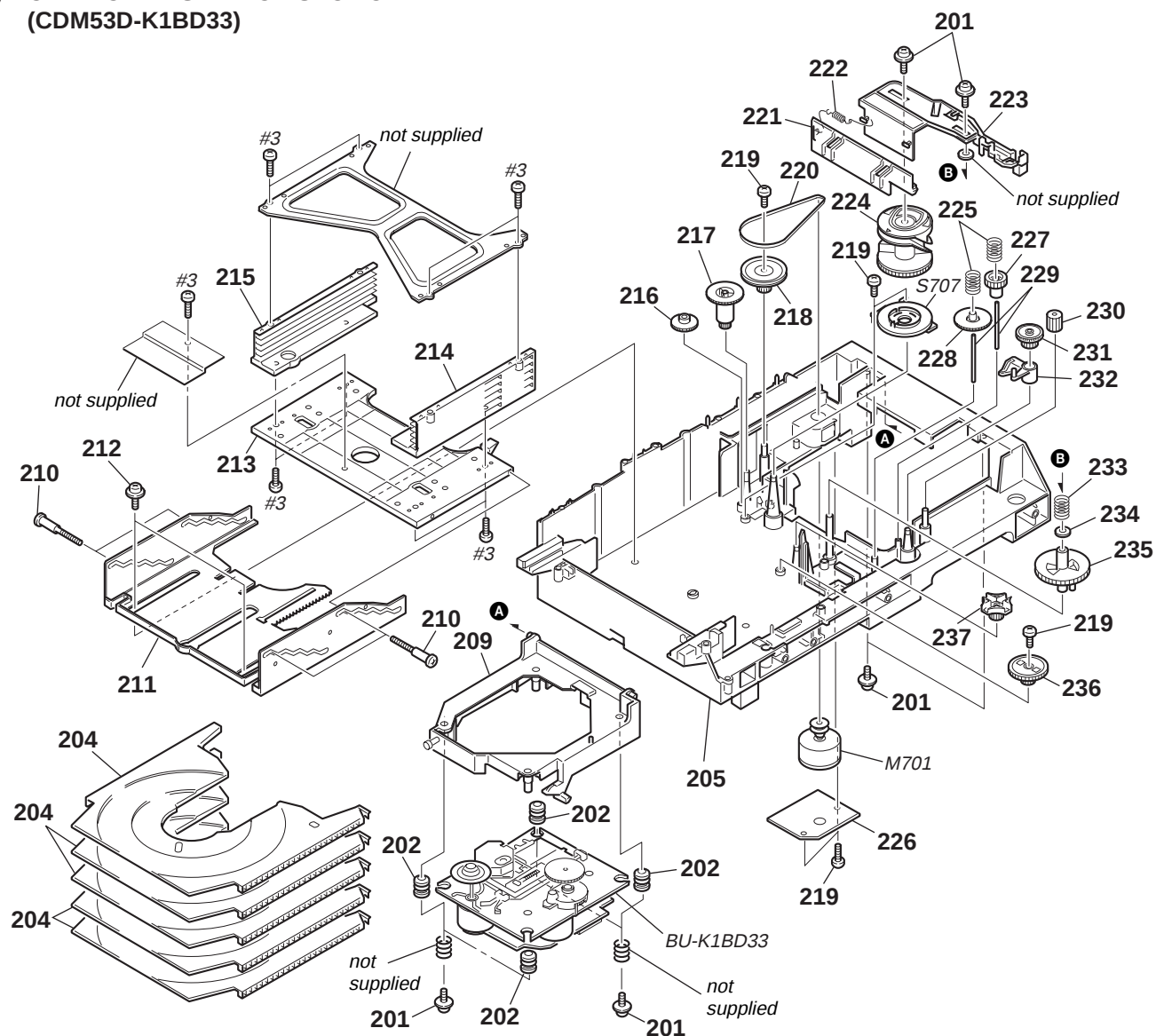
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-4951-821-1	HOLDER (B) ASSY, CASSETTE		65	1-674-773-11	PANEL TC-B BOARD	
52	4-221-448-01	SPRING (HOLDER B)		66	4-221-443-01	BUTTON, EJECT	
53	4-221-447-01	SPRING (HOLDER A)		67	1-773-004-11	WIRE (FLAT TYPE) (15 CORE)	
54	X-4951-820-1	HOLDER (A) ASSY, CASSETTE		68	1-773-044-11	WIRE (FLAT TYPE) (17 CORE) (16cm)	
55	4-221-434-01	PANEL (TC2), SUB		69	4-221-444-01	PLATE	
56	X-4951-818-1	PANEL ASSY, FRONT		70	4-223-952-01	SCREW, STEP	
57	4-221-433-01	PANEL (TC1), SUB		71	4-221-450-01	SPRING (EJECT B)	
58	4-221-432-01	PANEL (CD), SUB		72	4-221-446-01	LEVER (B), EJECT	
59	4-221-430-01	COVER (CD)		73	4-215-062-01	DAMPER	
60	4-221-431-01	COVER (TC)		74	4-221-445-01	LEVER (A), EJECT	
61	1-773-170-11	WIRE (FLAT TYPE) (21 CORE)		75	4-221-449-01	SPRING (EJECT A)	
62	A-4426-223-A	PANEL BOARD, COMPLETE (EXCEPT TH)		76	4-221-451-01	SPRING (CD)	
62	A-4426-942-A	PANEL BOARD, COMPLETE (TH)		77	4-221-442-01	LID, CD	
63	4-951-620-01	SCREW (2.6X8), +BVTP		78	4-951-620-11	SCREW (2.6 X 10), +BVTP	
64	1-674-772-11	PANEL TC-A BOARD					

(3) CD MECHANISM DECK SECTION-1
(CDM53D-K1BD33)



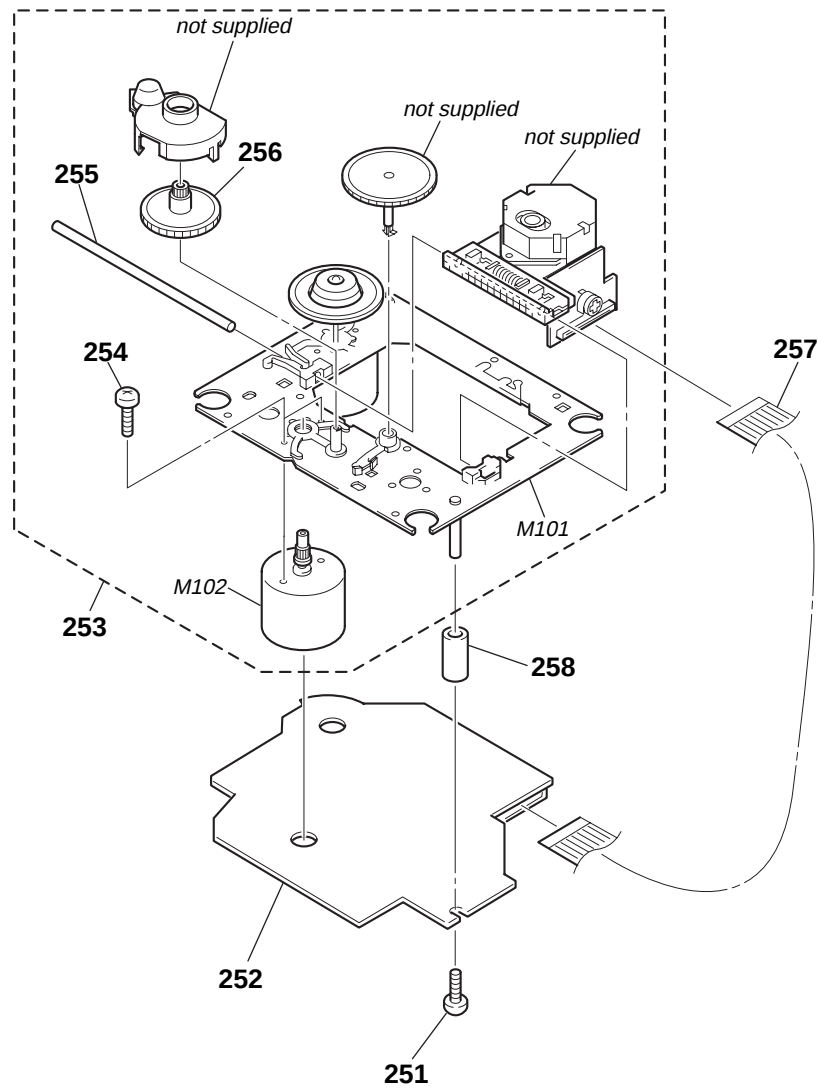
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-218-253-01	SCREW (M2.6), +BVTP		166	4-214-129-01	COVER	
* 152	1-671-508-21	LOAD MOTOR BOARD		167	4-211-235-01	BELT (COMMUNICATION)	
153	4-220-261-01	GEAR (EJECT)		168	4-211-236-01	BELT (LOADING)	
* 154	1-671-502-21	INT/COUNT SW BOARD		169	4-220-278-01	PULLEY (MODE)	
* 155	1-671-504-21	SENSOR BOARD		170	4-220-276-01	PULLEY (LD)	
156	4-212-676-03	SPRING (LID), TORSION		171	4-220-267-01	GEAR (LD DECELERATION)	
157	4-220-285-01	LID (DISC)		172	4-220-272-01	LEVER (GOOSENECK)	
158	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING		173	4-220-271-01	GEAR (TRAY)	
159	A-4672-622-F	BASE (GUIDE) ASSY, FITTING		* 174	1-671-506-21	CONNECTOR BOARD	
* 160	1-671-503-21	OUT SW BOARD		175	3-341-549-21	SCREW (2.6X12) (DIA. 7.5), +PTP WH	
* 161	1-671-789-21	SENSOR 2 BOARD		176	4-213-488-04	CHASSIS (MOLD B)	
162	4-220-274-01	HOLDER (SENSOR)		177	4-213-579-01	BRACKET (CHASSIS)	
* 164	1-671-505-21	IN SW BOARD		M702	X-4950-342-1	MOTOR (LOADING) ASSY	
165	A-4680-437-A	MAGNET ASSY					

(4) CD MECHANISM DECK SECTION-2
(CDM53D-K1BD33)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING		224	4-220-275-01	GEAR (CHUCKING)	
202	4-220-933-01	INSULATOR		225	4-211-245-01	SPRING, COMPRESSION	
204	4-213-487-53	TRAY (SUB)		* 226	1-671-507-21	CLAMP MOTOR BOARD	
205	4-213-482-02	CHASSIS (MOLD A)		227	4-220-265-01	GEAR (LD MOVABLE)	
209	X-4950-322-3	HOLDER (BU) ASSY		228	4-220-269-01	GEAR (SELECTION)	
210	4-211-244-01	SCREW, STEP		229	4-211-242-01	SHAFT (SELECTION GEAR)	
211	4-211-223-04	SLIDER (U/D)		230	4-220-268-01	GEAR (LD DECELERATION B)	
212	4-933-134-01	SCREW (M2.6), +PTPWH		231	4-220-262-01	GEAR (RELAY)	
213	4-211-224-03	BASE (STOCKER), FITTING		232	4-220-273-01	LEVER (SELECTION)	
214	4-211-211-02	STOCKER (R)		233	4-216-879-01	SPRING (GEAR), COIL	
215	4-211-210-03	STOCKER (L)		234	3-701-446-21	WASHER	
216	4-220-261-01	GEAR (EJECT)		235	4-220-270-01	GEAR (GEAR A)	
217	4-220-266-01	GEAR (MODE DECELERATION)		236	4-220-264-01	GEAR (U/D SLIDER)	
218	4-220-276-01	PULLEY (LD)		237	4-220-263-01	GEAR (GEAR B)	
219	4-218-253-01	SCREW (M2.6), +BVTP		M701	X-4950-341-1	MOTOR (CLAMP) ASSY	(ELEVATOR UP/DOWN)
220	4-211-237-01	BELT (MODE)					
221	4-220-283-01	SLIDER (SHUTTER)		S707	1-418-045-01	ENCODER, ROTARY	(DISC TRAY ADDRESS DETECT)
222	4-212-678-01	SPRING (SHUTTER), TENSION					
223	4-220-284-01	SLIDER (SELECTION)					

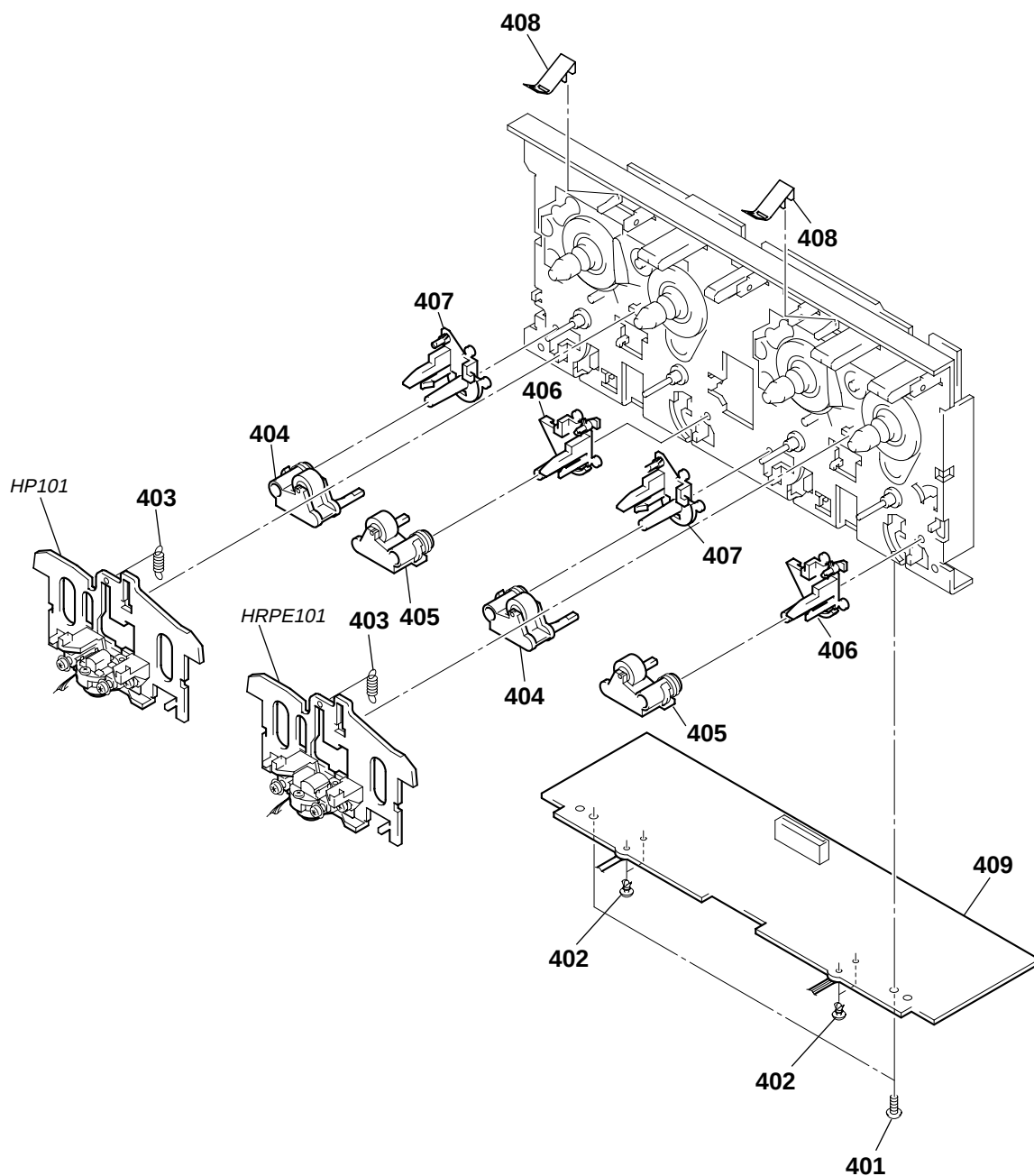
(5) CD BASE UNIT SECTION
(BU-K1BD33)



The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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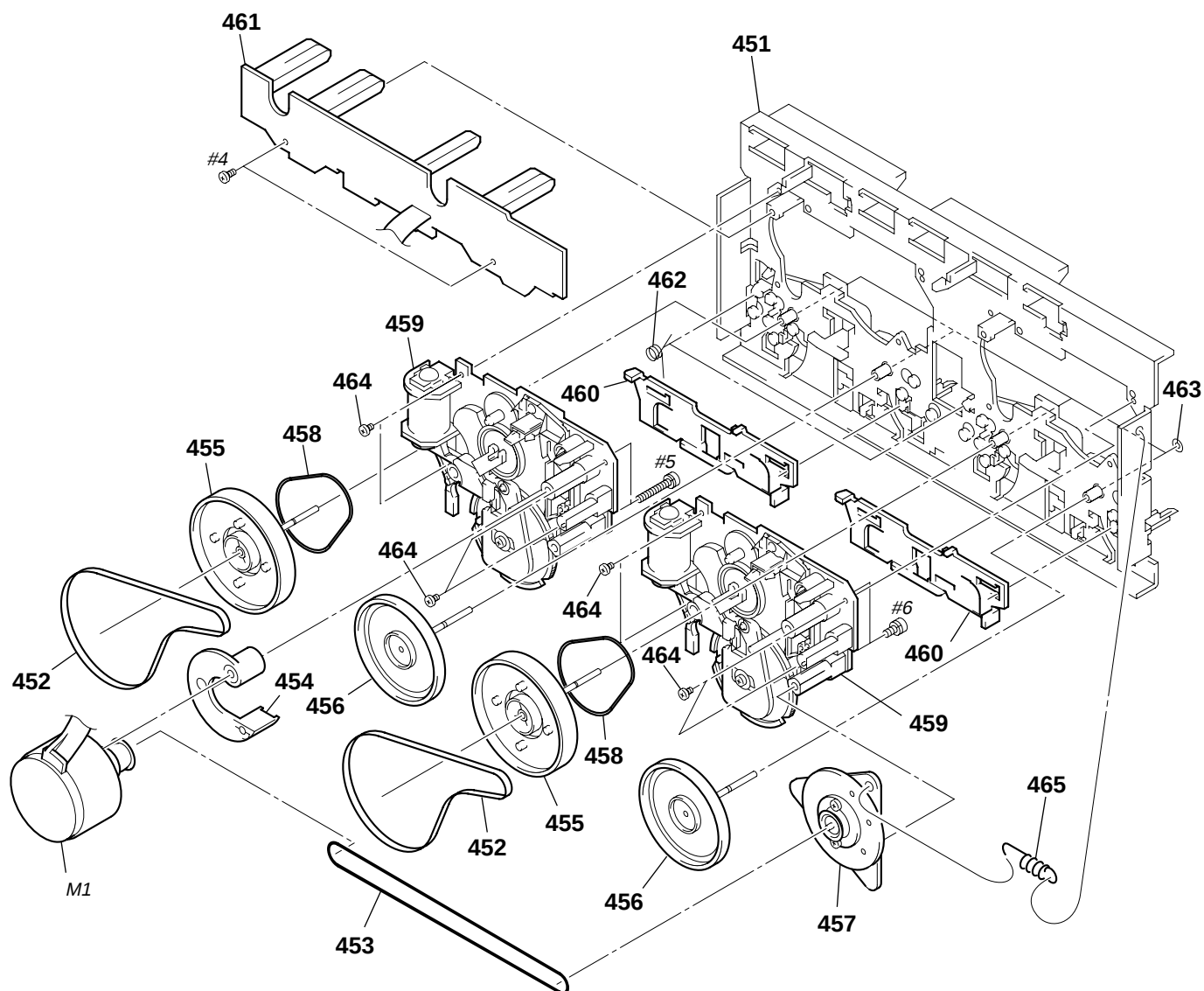
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	4-996-243-01	SCREW (M2), +PSW		256	2-627-003-02	GEAR (B) (RP)	
252	A-4724-330-A	BD BOARD, COMPLETE		257	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
$\triangle$ 253	8-820-026-03	OPTICAL PICK-UP KSM-213BFN/C2NP		258	4-216-878-11	COLLAR	
254	3-713-786-51	SCREW +P 2X3		M101	X-2646-110-3	MOTOR ASSY, SPINDLE	
255	2-626-908-01	SHAFT, SLED		M102	X-2625-769-1	MOTOR ASSY, SLED	

(6) TAPE MECHANISM DECK SECTION-1
(TCM-230AWR2)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
401	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT		407	3-016-565-01	BASE (PINCH LEVER REV)	
402	3-036-914-01	RIVET		408	3-026-892-01	SPRING (CASSETTE), LEAF	
403	3-016-574-11	SPRING (HEAD), TENSION		* 409	A-2007-731-A	AUDIO BOARD, COMPLETE	
404	X-3374-156-4	PINCH LEVER (REV) ASSY		HP101	A-2056-681-A	DECK (A) ASSY, HEAD (PLAYBACK)	
405	X-3374-155-4	PINCH LEVER (FWD) ASSY		HRPE101A-2056-682-A	DECK (B) ASSY, HEAD (REC/PB/ERASE)		
406	3-016-564-01	BASE (PINCH LEVER FWD)					

(7) TAPE MECHANISM DECK SECTION-2
(TCM-230AWR2)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 451	X-3374-214-4	CHASSIS ASSY, MAIN		459	A-2004-629-A	MECHANICAL BLOCK ASSY	
452	3-016-570-01	BELT (CAPSTAN)		460	3-016-566-01	SLIDER, REVERSE	
453	3-016-569-01	BELT (TENSION)		* 461	A-2007-732-A	LEAF SW BOARD, COMPLETE	
454	3-017-360-01	BRACKET (MOTOR)		462	3-016-575-11	SPRING, TORSION	
455	X-3376-497-3	FLYWHEEL (FWD) ASSY		463	3-019-208-01	WASHER, STOPPER	
456	X-3374-235-1	FLYWHEEL (REV) ASSY		464	3-030-823-01	SCREW (+BVTT) (2X3.5)	
457	X-3374-238-1	PULLEY ASSY, TENSION		465	3-027-453-01	SPRING (GROUND), TENSION	
458	3-024-405-01	BELT (FR2)		M1	A-2004-628-A	MOTOR ASSY, CAPSTAN	

SECTION 9 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Abbreviation
KR : Korean model
AUS : Australian model MY : Malaysia model
CND : Canadian model SP : Singapore model
JE : Tourist model TH : Thai 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: μ F
- COILS
uH: μ H

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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	A-2007-731-A	AUDIO BOARD, COMPLETE *****				< IC >	
		< CAPACITOR >		IC601	8-759-111-44	IC uPC4570C-1	
C301	1-162-289-31	CERAMIC 390PF 10% 50V		IC602	8-759-143-54	IC uPC1330HA	
C302	1-126-968-11	ELECT 100uF 20% 6.3V		IC611	8-759-111-44	IC uPC4570C-1	
C303	1-162-282-31	CERAMIC 100PF 10% 50V				< COIL >	
C304	1-130-483-00	MYLAR 0.01uF 5% 50V		L331	1-410-780-11	INDUCTOR 27mH	
C305	1-107-715-11	ELECT 22uF 20% 16V		L431	1-410-780-11	INDUCTOR 27mH	
C311	1-162-289-31	CERAMIC 390PF 10% 50V		L601	1-414-193-41	INDUCTOR 220uH	
C313	1-162-282-31	CERAMIC 100PF 10% 50V		L602	1-414-193-41	INDUCTOR 220uH	
C314	1-130-487-00	MYLAR 0.022uF 5% 50V				< TRANSISTOR >	
C315	1-126-233-11	ELECT 22uF 20% 50V		Q621	8-729-142-46	TRANSISTOR 2SC2001TP-LK	
C331	1-137-427-11	FILM 120PF 5% 50V		Q622	8-729-142-46	TRANSISTOR 2SC2001TP-LK	
C332	1-162-288-31	CERAMIC 330PF 10% 50V		Q623	8-729-801-93	TRANSISTOR 2SD1387-34-TP	
C333	1-162-209-31	CERAMIC 27PF 5% 50V				< RESISTOR >	
C401	1-162-289-31	CERAMIC 390PF 10% 50V		R301	1-247-881-00	CARBON 120K 5% 1/4W	
C402	1-126-968-11	ELECT 100uF 20% 6.3V		R302	1-249-409-11	CARBON 220 5% 1/4W	
C403	1-162-282-31	CERAMIC 100PF 10% 50V		R303	1-249-433-11	CARBON 22K 5% 1/4W	
C404	1-130-483-00	MYLAR 0.01uF 5% 50V		R304	1-247-889-00	CARBON 270K 5% 1/4W	
C405	1-107-715-11	ELECT 22uF 20% 16V		R305	1-247-858-11	CARBON 13K 5% 1/4W	
C411	1-162-289-31	CERAMIC 390PF 10% 50V		R311	1-247-881-00	CARBON 120K 5% 1/4W	
C413	1-162-282-31	CERAMIC 100PF 10% 50V		R312	1-247-807-31	CARBON 100 5% 1/4W	
C414	1-130-487-00	MYLAR 0.022uF 5% 50V		R314	1-247-882-11	CARBON 130K 5% 1/4W	
C415	1-126-233-11	ELECT 22uF 20% 50V		R315	1-247-850-11	CARBON 6.2K 5% 1/4W	
C431	1-137-427-11	FILM 120PF 5% 50V		R331	1-249-430-11	CARBON 12K 5% 1/4W	
C432	1-162-288-31	CERAMIC 330PF 10% 50V		R401	1-247-881-00	CARBON 120K 5% 1/4W	
C433	1-162-209-31	CERAMIC 27PF 5% 50V		R402	1-249-409-11	CARBON 220 5% 1/4W	
C601	1-104-396-11	ELECT 10uF 20% 16V		R403	1-249-433-11	CARBON 22K 5% 1/4W	
C602	1-104-396-11	ELECT 10uF 20% 16V		R404	1-247-889-00	CARBON 270K 5% 1/4W	
C611	1-104-396-11	ELECT 10uF 20% 16V		R405	1-247-858-11	CARBON 13K 5% 1/4W	
C612	1-104-396-11	ELECT 10uF 20% 16V		R411	1-247-881-00	CARBON 120K 5% 1/4W	
C621	1-137-150-11	FILM 0.01uF 5% 100V		R412	1-247-807-31	CARBON 100 5% 1/4W	
C622	1-126-961-11	ELECT 2.2uF 20% 50V		R414	1-247-882-11	CARBON 130K 5% 1/4W	
C623	1-136-155-00	FILM 0.015uF 5% 50V		R415	1-247-850-11	CARBON 6.2K 5% 1/4W	
C624	1-130-481-00	MYLAR 0.0068uF 5% 50V		R431	1-249-430-11	CARBON 12K 5% 1/4W	
C625	1-130-481-00	MYLAR 0.0068uF 5% 50V		R601	1-249-409-11	CARBON 220 5% 1/4W	
C627	1-124-903-11	ELECT 1uF 20% 50V		R602	1-249-409-11	CARBON 220 5% 1/4W	
C628	1-136-153-00	FILM 0.01uF 5% 50V		R608	1-249-409-11	CARBON 220 5% 1/4W	
C642	1-104-664-11	ELECT 47uF 20% 16V		R609	1-249-433-11	CARBON 22K 5% 1/4W	
		< CONNECTOR >		R611	1-249-409-11	CARBON 220 5% 1/4W	
CN601	1-563-834-21	SOCKET, CONNECTOR 15P					

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R612	1-249-409-11	CARBON	220	5%	1/4W								
△ R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F	C157	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
△ R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F	C159	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	
R623	1-249-432-11	CARBON	18K	5%	1/4W		C161	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
R624	1-249-432-11	CARBON	18K	5%	1/4W		C162	1-126-205-11	ELECT CHIP	47uF	20%	6.3V	
							C163	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
R625	1-249-429-11	CARBON	10K	5%	1/4W								
		< VARIABLE RESISTOR >					C165	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
							C167	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
							C168	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K					C171	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K					C172	1-163-123-00	CERAMIC CHIP	180PF	5%	50V	
RV341	1-241-768-11	RES, ADJ, CARBON 220K											
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K					C181	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K					C182	1-163-123-00	CERAMIC CHIP	180PF	5%	50V	
RV441	1-241-768-11	RES, ADJ, CARBON 220K							< CONNECTOR >				
		< TRANSFORMER >					CN101	1-778-874-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P				
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION					CN102	1-777-937-11	CONNECTOR, FFC/FPC 16P				
*****									< FERRITE BEAD/SHORT >				
A-4724-330-A	BD BOARD, COMPLETE						FB101	1-500-445-21	FERRITE	0uH			
	*****						FB102	1-216-295-00	SHORT	0			
	< CAPACITOR >						FB103	1-500-445-21	FERRITE	0uH			
							FB104	1-216-295-00	SHORT	0			
C101	1-163-005-11	CERAMIC CHIP	470PF	10%	50V				< IC >				
C102	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V								
C103	1-163-005-11	CERAMIC CHIP	470PF	10%	50V		IC101	8-752-386-85	IC	CXD2587Q			
C104	1-163-031-11	CERAMIC CHIP	0.01uF		50V		IC102	8-759-549-28	IC	BA5974FP-E2			
C108	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V		IC103	8-752-085-51	IC	CXA2568M-T6			
C109	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V				< TRANSISTOR >				
C110	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V								
C111	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		Q101	8-729-010-08	TRANSISTOR	MSB710-RT1			
C112	1-163-038-00	CERAMIC CHIP	0.1uF		25V				< RESISTOR >				
C113	1-163-038-00	CERAMIC CHIP	0.1uF		25V								
C114	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R101	1-216-077-91	RES, CHIP	15K	5%	1/10W	
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V		R102	1-216-097-00	RES, CHIP	100K	5%	1/10W	
C116	1-126-607-11	ELECT CHIP	47uF	20%	4V		R103	1-216-077-91	RES, CHIP	15K	5%	1/10W	
C117	1-126-209-11	ELECT CHIP	100uF	20%	4V		R104	1-216-085-00	METAL CHIP	33K	5%	1/10W	
C118	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V		R105	1-216-073-00	METAL CHIP	10K	5%	1/10W	
C119	1-163-235-11	CERAMIC CHIP	22PF	5%	50V		R106	1-216-049-11	RES, CHIP	1K	5%	1/10W	
C121	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R107	1-216-073-00	METAL CHIP	10K	5%	1/10W	
C122	1-126-206-11	ELECT CHIP	100uF	20%	6.3V		R108	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
C123	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V		R109	1-216-121-00	RES, CHIP	1M	5%	1/10W	
C124	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V		R110	1-216-025-00	RES, CHIP	100	5%	1/10W	
C125	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R111	1-216-121-00	RES, CHIP	1M	5%	1/10W	
C126	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R113	1-216-121-00	RES, CHIP	1M	5%	1/10W	
C127	1-128-065-11	ELECT CHIP	68uF	20%	10V		R114	1-216-073-00	METAL CHIP	10K	5%	1/10W	
C128	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R116	1-216-001-00	METAL CHIP	10	5%	1/10W	
C129	1-163-031-11	CERAMIC CHIP	0.01uF		50V		R117	1-216-049-11	RES, CHIP	1K	5%	1/10W	
C130	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V		R119	1-216-041-00	METAL CHIP	470	5%	1/10W	
C131	1-124-779-00	ELECT CHIP	10uF	20%	16V		R123	1-216-073-00	METAL CHIP	10K	5%	1/10W	
C133	1-164-346-11	CERAMIC CHIP	1uF		16V		R124	1-216-097-00	RES, CHIP	100K	5%	1/10W	
C140	1-164-346-11	CERAMIC CHIP	1uF		16V		R131	1-216-037-00	METAL CHIP	330	5%	1/10W	
C141	1-164-346-11	CERAMIC CHIP	1uF		16V		R135	1-216-295-00	SHORT	0			
C143	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R136	1-216-295-00	SHORT	0			
C151	1-163-235-11	CERAMIC CHIP	22PF	5%	50V		R137	1-216-295-00	SHORT	0			
C153	1-163-038-00	CERAMIC CHIP	0.1uF		25V		R138	1-216-295-00	SHORT	0			
C154	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V		R143	1-216-103-00	METAL CHIP	180K	5%	1/10W	
C156	1-163-235-11	CERAMIC CHIP	22PF	5%	50V		R144	1-216-103-00	METAL CHIP	180K	5%	1/10W	

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.

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LEAF SW

LOAD MOTOR

MAIN

Ref. No.	Part No.	Description			Remark
R1008	1-249-417-11	CARBON	1K	5%	1/4W
< VARIABLE RESISTOR >					
RV1001	1-241-785-11	RES, ADJ, CARBON 10K			
RV1002	1-241-785-11	RES, ADJ, CARBON 10K			
< SWITCH >					
S1001	1-570-953-11	SWITCH, PUSH (1KEY) (DECK A PLAY)			
S1002	1-570-953-11	SWITCH, PUSH (1KEY) (DECK B PLAY)			
S1003	1-771-333-11	SWITCH, LEAF (DECK A HALF)			
S1004	1-771-205-11	SWITCH, LEAF (DECK A 120/70)			
S1005	1-771-205-11	SWITCH, LEAF (DECK A REC)			
S1006	1-771-333-11	SWITCH, LEAF (DECK B HALF)			
S1008	1-771-205-11	SWITCH, LEAF (DECK B 120/70)			
S1009	1-771-205-11	SWITCH, LEAF (DECK B REC)			

*	1-671-508-21	LOAD MOTOR BOARD			

< CAPACITOR >					
C703	1-162-306-11	CERAMIC	0.01uF	30%	16V
C704	1-126-964-11	ELECT	10uF	20%	50V
C712	1-162-306-11	CERAMIC	0.01uF	30%	16V
< CONNECTOR >					
CN713	1-506-469-11	PIN, CONNECTOR 4P			
< DIODE >					
D702	8-719-109-85	DIODE MTZJ-T-77-5.1B			
< IC >					
IC702	8-759-633-65	IC M54641L			
< RESISTOR >					
R703	1-249-411-11	CARBON	330	5%	1/4W
R704	1-249-401-11	CARBON	47	5%	1/4W

	A-4426-608-A	MAIN BOARD, COMPLETE (US, CND, AEP, UK)			
	A-4426-609-A	MAIN BOARD, COMPLETE			
		(MY, SP, KR, AUS, JE)			
	A-4426-945-A	MAIN BOARD, COMPLETE (TH)			

	7-685-646-79	SCREW +BVTP 3X8 TYPE2 SLIT			
< CAPACITOR >					
C001	1-164-159-11	CERAMIC	0.1uF		50V
C101	1-104-665-11	ELECT	100uF	20%	10V
C102	1-164-159-11	CERAMIC	0.1uF		50V
C103	1-164-159-11	CERAMIC	0.1uF		50V
C104	1-126-964-11	ELECT	10uF	20%	50V
C105	1-164-159-11	CERAMIC	0.1uF		50V
C108	1-104-665-11	ELECT	100uF	20%	10V
C109	1-164-159-11	CERAMIC	0.1uF		50V
C110	1-104-665-11	ELECT	100uF	20%	10V
C111	1-126-925-11	ELECT	470uF	20%	10V

Ref. No.	Part No.	Description				Remark
C112	1-126-925-11	ELECT	470uF	20%		10V
C118	1-216-916-11	ELECT	1000uF	20%		6.3V
C119	1-161-494-00	CERAMIC	0.022uF			25V
C120	1-164-159-11	CERAMIC	0.1uF			50V
C121	1-164-159-11	CERAMIC	0.1uF			50V
		(US, CND, AEP, UK)				
C123	1-162-282-31	CERAMIC	100PF	10%		50V
C124	1-162-282-31	CERAMIC	100PF	10%		50V
C128	1-162-306-11	CERAMIC	0.01uF	30%		16V
C129	1-104-665-11	ELECT	100uF	20%		10V
C301	1-126-960-11	ELECT	1uF	20%		50V
C302	1-137-368-11	FILM	0.0047uF	5%		50V
C303	1-136-165-00	FILM	0.1uF	5%		50V
C304	1-136-165-00	FILM	0.1uF	5%		50V
C305	1-126-964-11	ELECT	10uF	20%		50V
C306	1-126-960-11	ELECT	1uF	20%		50V
C307	1-126-959-11	ELECT	0.47uF	20%		50V
C308	1-126-964-11	ELECT	10uF	20%		50V
C309	1-137-194-81	FILM	0.47uF	5%		50V
C310	1-162-290-31	CERAMIC	470PF	10%		50V
C311	1-126-964-11	ELECT	10uF	20%		50V
C312	1-126-959-11	ELECT	0.47uF	20%		50V
C313	1-162-294-31	CERAMIC	0.001uF	10%		50V
C314	1-126-964-11	ELECT	10uF	20%		50V
C315	1-126-963-11	ELECT	4.7uF	20%		50V
C316	1-104-665-11	ELECT	100uF	20%		10V
C317	1-104-665-11	ELECT	100uF	20%		10V
C333	1-162-600-11	CERAMIC	0.0047uF	30%		16V
C334	1-162-600-11	CERAMIC	0.0047uF	30%		16V
C335	1-162-600-11	CERAMIC	0.0047uF	30%		16V
C336	1-162-600-11	CERAMIC	0.0047uF	30%		16V
C351	1-126-960-11	ELECT	1uF	20%		50V
C352	1-137-368-11	FILM	0.0047uF	5%		50V
C353	1-136-165-00	FILM	0.1uF	5%		50V
C354	1-136-165-00	FILM	0.1uF	5%		50V
C355	1-126-964-11	ELECT	10uF	20%		50V
C356	1-126-960-11	ELECT	1uF	20%		50V
C357	1-126-959-11	ELECT	0.47uF	20%		50V
C358	1-126-964-11	ELECT	10uF	20%		50V
C359	1-137-194-81	FILM	0.47uF	5%		50V
C360	1-162-290-31	CERAMIC	470PF	10%		50V
C701	1-126-961-11	ELECT	2.2uF	20%		50V
C751	1-126-961-11	ELECT	2.2uF	20%		50V
C801	1-126-964-11	ELECT	10uF	20%		50V
C802	1-126-964-11	ELECT	10uF	20%		50V
C813	1-104-664-11	ELECT	47uF	20%		25V
C853	1-126-944-11	ELECT	3300uF	20%		25V
C854	1-126-944-11	ELECT	3300uF	20%		25V
C855	1-126-964-11	ELECT	10uF	20%		50V
C861	1-126-768-11	ELECT	2200uF	20%		16V
C862	1-104-665-11	ELECT	100uF	20%		10V
C865	1-104-665-11	ELECT	100uF	20%		10V
C866	1-126-964-11	ELECT	10uF	20%		50V
C867	1-126-934-11	ELECT	220uF	20%		10V
C868	1-126-934-11	ELECT	220uF	20%		10V
C869	1-104-664-11	ELECT	47uF	20%		25V
C870	1-164-159-11	CERAMIC	0.1uF			50V

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C871	1-164-159-11	CERAMIC	0.1uF		50V	Q331	8-729-118-00	TRANSISTOR	2SB1116-TP-LK		
C872	1-126-925-11	ELECT	470uF	20%	10V	Q332	8-729-900-80	TRANSISTOR	BA1A4M-TP		
C873	1-104-665-11	ELECT	100uF	20%	10V	Q333	8-729-118-00	TRANSISTOR	2SB1116-TP-LK		
C876	1-104-665-11	ELECT	100uF	20%	10V						
< CONNECTOR >											
CN101	1-793-351-41	SOCKET, CONNECTOR 19P	(SYSTEM CONTROL)			Q334	8-729-900-80	TRANSISTOR	BA1A4M-TP		
CN102	1-784-782-11	CONNECTOR, FFC 21P				Q335	8-729-900-80	TRANSISTOR	BA1A4M-TP		
CN105	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P				Q336	8-729-116-59	TRANSISTOR	2SB1068TP		
CN106	1-785-315-11	PIN, CONNECTOR (STRAIGHT) 3P				Q337	8-729-045-21	TRANSISTOR	2SD1513TP-LK		
CN111	1-784-780-11	CONNECTOR, FFC 19P				Q338	8-729-422-57	TRANSISTOR	BN1A4M-TP		
CN112	1-784-778-11	CONNECTOR, FFC 17P				Q339	8-729-900-80	TRANSISTOR	BA1A4M-TP		
* CN301	1-560-666-00	PIN, CONNECTOR 3P				Q340	8-729-116-59	TRANSISTOR	2SB1068TP		
CNS101	1-784-776-11	CONNECTOR, FFC 15P				Q341	8-729-045-21	TRANSISTOR	2SD1513TP-LK		
CNS104	1-784-778-11	CONNECTOR, FFC 17P				Q342	8-729-422-57	TRANSISTOR	BN1A4M-TP		
						Q343	8-729-900-80	TRANSISTOR	BA1A4M-TP		
< DIODE >											
D101	8-719-911-19	DIODE	1SS133T-72			Q852	8-729-209-15	TRANSISTOR	2SD2012		
D102	8-719-911-19	DIODE	1SS133T-72			Q855	8-729-141-83	TRANSISTOR	2SB1375		
D103	8-719-911-19	DIODE	1SS133T-72			< RESISTOR >					
D104	8-719-911-19	DIODE	1SS133T-72			R101	1-249-429-11	CARBON	10K	5%	1/4W
D105	8-719-911-19	DIODE	1SS133T-72			R102	1-249-409-11	CARBON	220	5%	1/4W
D106	8-719-024-99	DIODE	11ES2-NTA2B (US, CND, AEP, UK)			R103	1-249-417-11	CARBON	1K	5%	1/4W
D851	8-719-991-33	DIODE	1SS133T-77			R104	1-249-409-11	CARBON	220	5%	1/4W
D852	8-719-991-33	DIODE	1SS133T-77			R105	1-247-807-31	CARBON	100	5%	1/4W
D855	8-719-110-08	DIODE	MTZJ-T-72-8.2B			R106	1-247-807-31	CARBON	100	5%	1/4W
D858	8-719-110-08	DIODE	MTZJ-T-72-8.2B			R107	1-247-807-31	CARBON	100	5%	1/4W
D901	8-719-024-99	DIODE	11ES2-NTA2B			R108	1-247-807-31	CARBON	100	5%	1/4W
D902	8-719-024-99	DIODE	11ES2-NTA2B			R109	1-247-807-31	CARBON	100	5%	1/4W
D903	8-719-024-99	DIODE	11ES2-NTA2B			R110	1-247-807-31	CARBON	100	5%	1/4W
D904	8-719-024-99	DIODE	11ES2-NTA2B			R111	1-247-807-31	CARBON	100	5%	1/4W
< COIL >											
FB101	1-412-473-21	INDUCTOR	0uH			R112	1-247-807-31	CARBON	100	5%	1/4W
< IC >											
IC101	8-759-597-55	IC	M30622MA-A13FP			R113	1-247-807-31	CARBON	100	5%	1/4W
IC102	8-759-165-82	IC	PST600E-T			R114	1-247-807-31	CARBON	100	5%	1/4W
IC107	8-749-923-04	IC	TOTX178A (CD DIGITAL OUT OPTICAL)			R115	1-247-807-31	CARBON	100	5%	1/4W
IC301	8-759-495-26	IC	HA12215F			R116	1-247-807-31	CARBON	100	5%	1/4W
IC851	8-759-394-35	IC	BA12T			R117	1-247-807-31	CARBON	100	5%	1/4W
IC852	8-759-231-53	IC	M5F7805L			R118	1-247-807-31	CARBON	100	5%	1/4W
IC853	8-759-604-86	IC	M5F7807L			R119	1-247-807-31	CARBON	100	5%	1/4W
IC855	8-759-231-58	IC	M5F7812L			R120	1-249-429-11	CARBON	10K	5%	1/4W
< COIL >											
L101	1-410-521-11	INDUCTOR	100uH			R121	1-249-429-11	CARBON	10K	5%	1/4W
L103	1-410-521-11	INDUCTOR	100uH			R122	1-249-429-11	CARBON	10K	5%	1/4W
< TRANSISTOR >											
Q101	8-729-900-80	TRANSISTOR	BA1A4M-TP			R123	1-249-429-11	CARBON	10K	5%	1/4W
Q102	8-729-141-83	TRANSISTOR	2SB1375			R124	1-247-807-31	CARBON	100	5%	1/4W
Q103	8-729-900-80	TRANSISTOR	BA1A4M-TP			R125	1-247-807-31	CARBON	100	5%	1/4W
Q104	8-729-141-83	TRANSISTOR	2SB1375			R126	1-247-807-31	CARBON	100	5%	1/4W
Q105	8-729-040-20	TRANSISTOR	RT1P137L-TP			R127	1-247-807-31	CARBON	100	5%	1/4W
Q106	8-729-900-80	TRANSISTOR	BA1A4M-TP			R128	1-247-807-31	CARBON	100	5%	1/4W
Q107	8-729-900-80	TRANSISTOR	BA1A4M-TP			R129	1-249-429-11	CARBON	10K	5%	1/4W
						R130	1-247-807-31	CARBON	100	5%	1/4W
						R131	1-247-807-31	CARBON	100	5%	1/4W
						R132	1-247-807-31	CARBON	100	5%	1/4W
						R133	1-247-807-31	CARBON	100	5%	1/4W
						R134	1-247-807-31	CARBON	100	5%	1/4W
						R135	1-249-429-11	CARBON	10K	5%	1/4W
						R136	1-249-413-11	CARBON	470	5%	1/4W
						R138	1-249-429-11	CARBON	10K	5%	1/4W
						R139	1-249-429-11	CARBON	10K	5%	1/4W
						R140	1-249-417-11	CARBON	1K	5%	1/4W
						R141	1-249-425-11	CARBON	4.7K	5%	1/4W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R142	1-249-429-11	CARBON 10K 5%	1/4W	R334	1-249-415-11	CARBON 680 5%	1/4W
R143	1-249-429-11	CARBON 10K 5%	1/4W	R335	1-249-421-11	CARBON 2.2K 5%	1/4W
R144	1-249-411-11	CARBON 330 5%	1/4W				
R145	1-249-429-11	CARBON 10K 5%	1/4W	R336	1-249-437-11	CARBON 47K 5%	1/4W
R146	1-247-807-31	CARBON 100 5%	1/4W	R337	1-249-417-11	CARBON 1K 5%	1/4W
				R338	1-249-411-11	CARBON 330 5%	1/4W
R147	1-249-417-11	CARBON 1K 5%	1/4W	R339	1-249-437-11	CARBON 47K 5%	1/4W
R148	1-249-417-11	CARBON 1K 5%	1/4W	R340	1-249-437-11	CARBON 47K 5%	1/4W
R149	1-249-425-11	CARBON 4.7K 5%	1/4W				
R150	1-249-425-11	CARBON 4.7K 5%	1/4W	R341	1-249-417-11	CARBON 1K 5%	1/4W
R151	1-249-429-11	CARBON 10K 5%	1/4W	R342	1-249-411-11	CARBON 330 5%	1/4W
				R343	1-249-437-11	CARBON 47K 5%	1/4W
R152	1-249-429-11	CARBON 10K 5%	1/4W	R351	1-249-435-11	CARBON 33K 5%	1/4W
R153	1-249-429-11	CARBON 10K 5%	1/4W	R352	1-249-421-11	CARBON 2.2K 5%	1/4W
R154	1-247-807-31	CARBON 100 5%	1/4W				
R155	1-249-429-11	CARBON 10K 5%	1/4W	R353	1-247-807-31	CARBON 100 5%	1/4W
R156	1-249-429-11	CARBON 10K 5%	1/4W	R354	1-247-807-31	CARBON 100 5%	1/4W
				R355	1-249-421-11	CARBON 2.2K 5%	1/4W
R157	1-249-429-11	CARBON 10K 5%	1/4W	R356	1-249-428-11	CARBON 8.2K 5%	1/4W
R158	1-249-429-11	CARBON 10K 5%	1/4W	R357	1-249-428-11	CARBON 8.2K 5%	1/4W
R159	1-249-429-11	CARBON 10K 5%	1/4W				
R160	1-249-429-11	CARBON 10K 5%	1/4W	R358	1-249-425-11	CARBON 4.7K 5%	1/4W
R161	1-247-807-31	CARBON 100 5%	1/4W	R359	1-249-435-11	CARBON 33K 5%	1/4W
				R701	1-247-807-31	CARBON 100 5%	1/4W
R162	1-249-429-11	CARBON 10K 5%	1/4W	R702	1-249-435-11	CARBON 33K 5%	1/4W
R163	1-249-429-11	CARBON 10K 5%	1/4W	R751	1-247-807-31	CARBON 100 5%	1/4W
R164	1-247-807-31	CARBON 100 5%	1/4W				
R165	1-247-807-31	CARBON 100 5%	1/4W	R752	1-249-435-11	CARBON 33K 5%	1/4W
R166	1-247-807-31	CARBON 100 5%	1/4W	R802	1-247-815-91	CARBON 220 5%	1/4W
				R855	1-249-417-11	CARBON 1K 5%	1/4W
R167	1-249-429-11	CARBON 10K 5%	1/4W	R859	1-249-417-11	CARBON 1K 5%	1/4W
R168	1-247-807-31	CARBON 100 5%	1/4W	△R861	1-212-853-00	FUSIBLE 6.8 5%	1/4W F
R169	1-249-429-11	CARBON 10K 5%	1/4W				
R171	1-249-437-11	CARBON 47K 5%	1/4W	△R862	1-212-956-00	FUSIBLE 8.2 5%	1/2W F
R301	1-249-435-11	CARBON 33K 5%	1/4W				
						< VARIABLE RESISTOR >	
R302	1-249-421-11	CARBON 2.2K 5%	1/4W	RV301	1-238-600-11	RES, ADJ, CARBON 10K	
R303	1-247-807-31	CARBON 100 5%	1/4W	RV351	1-238-600-11	RES, ADJ, CARBON 10K	
R304	1-247-807-31	CARBON 100 5%	1/4W				
R305	1-249-421-11	CARBON 2.2K 5%	1/4W			< VIBRATOR >	
R306	1-249-428-11	CARBON 8.2K 5%	1/4W				
				X101	1-781-107-21	VIBRATOR, SERAMIC (16MHz)	
R307	1-249-428-11	CARBON 8.2K 5%	1/4W	*****			
R308	1-249-425-11	CARBON 4.7K 5%	1/4W				
R309	1-249-433-11	CARBON 22K 5%	1/4W				
R311	1-247-903-00	CARBON 1M 5%	1/4W	*	1-671-503-21	OUT SW BOARD	
R312	1-247-884-11	CARBON 160K 5%	1/4W	*****			
						< CONNECTOR >	
R313	1-249-441-11	CARBON 100K 5%	1/4W				
R315	1-249-429-11	CARBON 10K 5%	1/4W				
R316	1-249-432-11	CARBON 18K 5%	1/4W	* CN709	1-568-943-11	PIN, CONNECTOR 5P	
R317	1-249-429-11	CARBON 10K 5%	1/4W	CN715	1-506-481-11	PIN, CONNECTOR 2P	
R318	1-249-429-11	CARBON 10K 5%	1/4W				
						< SWITCH >	
R319	1-247-893-11	CARBON 390K 5%	1/4W				
R321	1-249-422-11	CARBON 2.7K 5%	1/4W	S701	1-771-218-11	SWITCH, MICRO (MID OUT)	
R322	1-249-428-11	CARBON 8.2K 5%	1/4W	S702	1-771-218-11	SWITCH, MICRO (LID)	
R324	1-247-876-11	CARBON 75K 5%	1/4W	S708	1-771-218-11	SWITCH, MICRO (OUT)	
R325	1-247-876-11	CARBON 75K 5%	1/4W	*****			
R326	1-249-417-11	CARBON 1K 5%	1/4W		A-4426-223-A	PANEL BOARD, COMPLETE (EXCEPT TH)	
R327	1-249-437-11	CARBON 47K 5%	1/4W		A-4426-942-A	PANEL BOARD, COMPLETE (TH)	
R328	1-249-425-11	CARBON 4.7K 5%	1/4W				
R329	1-249-437-11	CARBON 47K 5%	1/4W				
R330	1-249-425-11	CARBON 4.7K 5%	1/4W			< CONNECTOR >	
R331	1-249-437-11	CARBON 47K 5%	1/4W	CN204	1-784-782-11	CONNECTOR, FFC 21P	
R332	1-249-415-11	CARBON 680 5%	1/4W				
R333	1-249-421-11	CARBON 2.2K 5%	1/4W				

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.
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PANEL

Ref. No.	Part No.	Description	Remark			
< LED >						
D201	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)				
D202	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)				
D203	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)				
D204	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)				
D205	8-719-071-42	LED SEL5723C-TP15 (<(DECK B))				
D206	8-719-071-42	LED SEL5723C-TP15 (<(DECK A))				
D207	8-719-071-42	LED SEL5723C-TP15 (>(DECK B))				
D208	8-719-071-42	LED SEL5723C-TP15 (>(DECK A))				
D209	8-719-057-29	LED SML78423C-TP15 (DISC 1)				
D210	8-719-057-29	LED SML78423C-TP15 (DISC 4)				
D211	8-719-071-42	LED SEL5723C-TP15 (>(CD))				
D212	8-719-071-41	LED SELS5923C-TP15 (III(CD))				
D213	8-719-057-29	LED SML78423C-TP15 (DISC 2)				
D214	8-719-057-29	LED SML78423C-TP15 (DISC 5)				
D215	8-719-057-29	LED SML78423C-TP15 (DISC 3)				
D218	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)				
D219	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)				
D220	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)				
D221	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)				
D222	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)				
D223	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)				
D224	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)				
D225	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)				
< TRANSISTOR >						
Q201	8-729-900-80	TRANSISTOR BA1A4M-TP				
Q202	8-729-900-80	TRANSISTOR BA1A4M-TP				
Q203	8-729-900-80	TRANSISTOR BA1A4M-TP				
Q204	8-729-900-80	TRANSISTOR BA1A4M-TP				
Q205	8-729-900-80	TRANSISTOR BA1A4M-TP				
Q206	8-729-900-80	TRANSISTOR BA1A4M-TP				
Q207	8-729-900-80	TRANSISTOR BA1A4M-TP				
Q208	8-729-900-80	TRANSISTOR BA1A4M-TP				
Q209	8-729-900-80	TRANSISTOR BA1A4M-TP				
Q210	8-729-900-80	TRANSISTOR BA1A4M-TP				
Q211	8-729-900-80	TRANSISTOR BA1A4M-TP				
Q212	8-729-900-80	TRANSISTOR BA1A4M-TP				
Q213	8-729-900-80	TRANSISTOR BA1A4M-TP				
Q214	8-729-900-80	TRANSISTOR BA1A4M-TP				
Q215	8-729-900-80	TRANSISTOR BA1A4M-TP				
Q216	8-729-900-80	TRANSISTOR BA1A4M-TP				
< RESISTOR >						
R201	1-249-410-11	CARBON	270	5%	1/4W	
R202	1-249-411-11	CARBON	330	5%	1/4W	
R203	1-249-413-11	CARBON	470	5%	1/4W	
R204	1-249-414-11	CARBON	560	5%	1/4W	
R205	1-249-415-11	CARBON	680	5%	1/4W	
R206	1-249-417-11	CARBON	1K	5%	1/4W	
R207	1-249-418-11	CARBON	1.2K	5%	1/4W	
R208	1-249-420-11	CARBON	1.8K	5%	1/4W	
R209	1-249-422-11	CARBON	2.7K	5%	1/4W	
R210	1-249-403-11	CARBON	68	5%	1/4W	
R211	1-249-403-11	CARBON	68	5%	1/4W	
R212	1-249-407-11	CARBON	150	5%	1/4W	

Ref. No.	Part No.	Description	Remark			
R213	1-249-407-11	CARBON	150	5%	1/4W	
R214	1-249-407-11	CARBON	150	5%	1/4W	
R215	1-249-407-11	CARBON	150	5%	1/4W	
R216	1-249-410-11	CARBON	270	5%	1/4W	
R217	1-249-411-11	CARBON	330	5%	1/4W	
R218	1-249-413-11	CARBON	470	5%	1/4W	
R219	1-249-414-11	CARBON	560	5%	1/4W	
R220	1-249-415-11	CARBON	680	5%	1/4W	
R221	1-249-417-11	CARBON	1K	5%	1/4W	
R222	1-249-418-11	CARBON	1.2K	5%	1/4W	
R223	1-249-420-11	CARBON	1.8K	5%	1/4W	
R224	1-249-422-11	CARBON	2.7K	5%	1/4W	
R225	1-247-843-11	CARBON	3.3K	5%	1/4W	
R226	1-249-425-11	CARBON	4.7K	5%	1/4W	
R227	1-249-427-11	CARBON	6.8K	5%	1/4W	
R228	1-249-429-11	CARBON	10K	5%	1/4W	
R229	1-247-807-31	CARBON	100	5%	1/4W	
R230	1-247-807-31	CARBON	100	5%	1/4W	
R231	1-249-407-11	CARBON	150	5%	1/4W	
R232	1-249-407-11	CARBON	150	5%	1/4W	
R233	1-249-407-11	CARBON	150	5%	1/4W	
R234	1-249-407-11	CARBON	150	5%	1/4W	
R235	1-247-807-31	CARBON	100	5%	1/4W	
R236	1-247-807-31	CARBON	100	5%	1/4W	
R237	1-249-407-11	CARBON	150	5%	1/4W	
R238	1-249-407-11	CARBON	150	5%	1/4W	
R239	1-247-807-31	CARBON	100	5%	1/4W	
R240	1-249-407-11	CARBON	150	5%	1/4W	
R248	1-249-403-11	CARBON	68	5%	1/4W	
R249	1-249-403-11	CARBON	68	5%	1/4W	
R250	1-249-403-11	CARBON	68	5%	1/4W	
R251	1-249-403-11	CARBON	68	5%	1/4W	
< SWITCH >						
S201	1-762-875-21	SWITCH, KEYBOARD (□(DECK B))				
S202	1-762-875-21	SWITCH, KEYBOARD (>(DECK B))				
S203	1-762-875-21	SWITCH, KEYBOARD (<(DECK B))				
S204	1-762-875-21	SWITCH, KEYBOARD (□(DECK A))				
S205	1-762-875-21	SWITCH, KEYBOARD (>(DECK A))				
S206	1-762-875-21	SWITCH, KEYBOARD (<(DECK A))				
S211	1-762-875-21	SWITCH, KEYBOARD (>(CD))				
S212	1-762-875-21	SWITCH, KEYBOARD (III(CD))				
S213	1-762-875-21	SWITCH, KEYBOARD (□(CD))				
S214	1-692-221-11	SWITCH, KEY BOARD (DISC 1)				
S215	1-692-221-11	SWITCH, KEY BOARD (DISC 2)				
S216	1-692-221-11	SWITCH, KEY BOARD (DISC 3)				
S217	1-692-221-11	SWITCH, KEY BOARD (DISC 4)				
S218	1-692-221-11	SWITCH, KEY BOARD (DISC 5)				
S219	1-692-221-11	SWITCH, KEY BOARD (≡(DISC 5))				
S220	1-692-221-11	SWITCH, KEY BOARD (≡(DISC 4))				
S221	1-692-221-11	SWITCH, KEY BOARD (≡(DISC 3))				
S222	1-692-221-11	SWITCH, KEY BOARD (≡(DISC 2))				
S223	1-692-221-11	SWITCH, KEY BOARD (≡(DISC 1))				

PANEL TC-A

PANEL TC-B

SENSOR

SENSOR 2

Ref. No.	Part No.	Description	Remark
	1-674-773-11	PANEL TC-A BOARD *****	
		< RESISTOR >	
R246	1-247-843-11	CARBON 3.3K 5% 1/4W	
R247	1-249-425-11	CARBON 4.7K 5% 1/4W	
		< SWITCH >	
S227	1-762-875-21	SWITCH, KEYBOARD (DIRECTION)	
S228	1-762-875-21	SWITCH, KEYBOARD (DOLBY NR)	

	1-674-772-11	PANEL TC-B BOARD *****	
		< LED >	
D216	8-719-071-41	LED SELS5923C-TP15 (CD SYNC)	
D217	8-719-071-44	LED SELS5223C-TP15 (REC PAUSE/START)	
		< RESISTOR >	
R241	1-249-407-11	CARBON 150 5% 1/4W	
R242	1-249-409-11	CARBON 220 5% 1/4W	
R243	1-249-427-11	CARBON 6.8K 5% 1/4W	
R244	1-249-429-11	CARBON 10K 5% 1/4W	
R245	1-249-431-11	CARBON 15K 5% 1/4W	
		< SWITCH >	
S224	1-762-875-21	SWITCH, KEYBOARD (HI DUB)	
S225	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)	
S226	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)	

*	1-671-504-21	SENSOR BOARD *****	
		< CONNECTOR >	
CN708	1-506-481-11	PIN, CONNECTOR 2P	
		< LED >	
D704	8-719-055-84	LED GL528VS1 (DISC IN DETECT SENSOR)	
		< RESISTOR >	
R711	1-249-415-11	CARBON 680 5% 1/4W	

*	1-671-789-21	SENSOR 2 BOARD *****	
	4-220-274-01	HOLDER (SENSOR) (//C)	
		< PHOTO TRANSISTOR >	
Q703	8-729-926-31	PHOTO TRANSISTOR PT483F1	

		MISCELLANEOUS *****	
1	1-773-040-11	WIRE (FLAT TYPE) (17 CORE) (12cm)	
2	1-791-433-11	WIRE (FLAT TYPE) (19 CORE)	
5	1-791-075-11	CORD, CONNECTION	

Ref. No.	Part No.	Description	Remark
61	1-773-170-11	WIRE (FLAT TYPE) (21 CORE)	
67	1-773-004-11	WIRE (FLAT TYPE) (15 CORE)	
68	1-773-044-11	WIRE (FLAT TYPE) (17 CORE) (16cm)	
△ 253	8-820-026-03	OPTICAL PICK-UP KSM-213BFN/C2NP	
257	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
HP101	A-2056-681-A	DECK (A) ASSY, HEAD (PLAYBACK)	
HRPE101A-2056-682-A		DECK (B) ASSY, HEAD (REC/PB/ERASE)	
M1	A-2004-628-A	MOTOR ASSY, CAPSTAN	
M101	X-2646-110-3	MOTOR ASSY, SPINDLE	
M102	X-2625-769-1	MOTOR ASSY, SLED	
M701	X-4950-341-1	MOTOR (CLAMP) ASSY (ELEVATOR UP/DOWN)	
M702	X-4950-342-1	MOTOR (LOADING) ASSY	
S707	1-418-045-01	ENCODER, ROTARY (DISC TRAY ADDRESS DETECT)	

HARDWARE LIST

#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S
#2	7-685-853-04	SCREW +BVTT 2X6 (S)
#3	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S
#4	7-685-851-04	SCREW +BVTT 2X4 (S)
#5	7-628-254-50	SCREW +PS 2.6X16
#6	7-628-254-15	SCREW +PS 2.6X6
#7	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#8	7-685-870-01	SCREW +BVTT 3X5 (S)
#9	7-685-862-11	SCREW +BVTT 2.6X6 (S)

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