

MHC-NX1/NX3AV

HCD-NX1/HCR-NX3

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
MHC-NX1/NX3AV
Tourist Model
MHC-NX1
Australian Model
MHC-NX3AV

- MHC-NX1/NX3AV is composed of following models.
As for the service manual, it is issued for each component model,
then, please refer to it.

COMPONENT MODEL NAME FOR MHC-NX1/NX3AV

	MHC-NX1	MHC-NX3AV
TUNER,AMPLIFIER	STR-NX1	STR-NX3
CD PLAYER ,TAPE DECK	HTC-NX1	
FRONT SPEAKER SYSTEM	SS-NX1	
CENTER/REAR SPEAKER SYSTEM		SS-RC100

HCD-NX1 is composed of STR-NX1 and HTC-NX1.
HCR-NX3 is composed of STR-NX3 and HTC-NX1.

• Abbreviation

AED : North European
CND : Canadian
JE : Tourist
MY : Malaysia
TH : Thai
AUS : Australian
G : German
KR : Korean
SP : Singapore

PARTS LIST

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
ACCESSORIES & PACKING MATERIALS *****				3-867-107-21	MANUAL,INSTRUCTION (FRENCH,SPANISH)	(NX3:CND,AEP,MY,SP)	
1-418-548-11	REMOTE COMMANDER (RM-SX10) (NX1)			3-867-107-31	MANUAL,INSTRUCTION (GERMAN) (NX3:AEP,G)		
1-418-549-11	REMOTE COMMANDER (RM-SX15) (NX3AV)			3-867-107-41	MANUAL,INSTRUCTION	(DUTCH,ITALIAN,PORTUGUESE) (NX3:AEP)	
1-501-374-11	ANTENNA,LOOP			3-867-107-51	MANUAL,INSTRUCTION	(DANISH,FINISH,SWEDISH) (NX3:AED)	
1-501-594-11	ANTENNA (FM) (AEP,UK)			3-867-107-61	MANUAL,INSTRUCTION (POLISH,RUSSIAN)	(NX1:CIS)	
1-501-659-41	ANTENNA (FM) (US,CND,E,AU,JE)						
1-769-306-11	CORD,SPEAKER (1.5m) (FOR SS-NX1)			3-867-107-71	MANUAL,INSTRUCTION (CHINESE) (NX3:MY,SP)		
1-769-433-11	CORD,SPEAKER (1m) (FOR SS-RC100)			3-867-107-81	MANUAL,INSTRUCTION (KORIAN) (NX3:KR)		
1-769-433-21	CORD,SPEAKER (2.5m) (FOR SS-RC100)			3-867-339-11	MANUAL,INSTRUCTION (CZECH) (NX3,AED)		
3-867-106-11	MANUAL,INSTRUCTION (ENGLISH)			3-867-339-21	MANUAL,INSTRUCTION (HUNGARIAN)	(NX3,AED)	
	(NX1:US,CND,AEP,UK,CIS,MY,SP,JE)			3-867-339-31	MANUAL,INSTRUCTION (GREEK) (NX3,AED)		
3-867-106-21	MANUAL,INSTRUCTION (FRENCH,SPANISH)						
	(NX1:CND,AEP,MY,SP)			3-867-339-41	MANUAL,INSTRUCTION (TURKISH) (NX3,AED)		
3-867-106-31	MANUAL,INSTRUCTION (GERMAN) (NX1:AEP,G)			3-867-340-11	MANUAL,INSTRUCTION (CZECH) (NX3,AED)		
3-867-106-41	MANUAL,INSTRUCTION			3-867-340-21	MANUAL,INSTRUCTION (HUNGARIAN)	(NX3,AED)	
	(DUTCH,ITALIAN,PORTUGUESE) (NX1:AEP)						
3-867-106-51	MANUAL,INSTRUCTION			3-867-340-31	MANUAL,INSTRUCTION (GREEK) (NX3,AED)		
	(DANISH,FINISH,SWEDISH) (NX1:AED)			3-867-340-41	MANUAL,INSTRUCTION (TURKISH) (NX3,AED)		
3-867-106-61	MANUAL,INSTRUCTION (POLISH,RUSSIAN)						
	(NX1:CIS)			3-867-790-11	MANUAL,INSTRUCTION (ENGLISH,FRENCH,		
3-867-106-71	MANUAL,INSTRUCTION (CHINESE) (NX1:MY,SP)				GERMAN,SWEDISH,RUSSIAN) (SS-NX1)		
				3-867-936-11	MANUAL,INSTRUCTION (THAI) (NX1:TH)		
3-867-106-81	MANUAL,INSTRUCTION (KORIAN) (NX1:KR,JE)			4-210-254-01	CUSHION (FOOT) (FOR SS-NX1)		
3-867-106-91	MANUAL,INSTRUCTION (PORTUGUESE)			4-981-643-21	COVER,BATTERY (FOR RM-SX10/SX15)		
	(NX1:JE)						
3-867-107-11	MANUAL,INSTRUCTION (ENGLISH)						
	(NX3:US,CND,AEP,UK,CIS,MY,SP,AUS)						

MINI Hi-Fi COMPONENT SYSTEM

SONY®



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.

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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

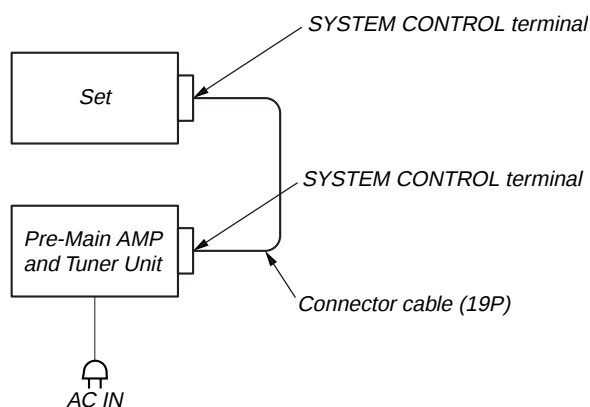
- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

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.

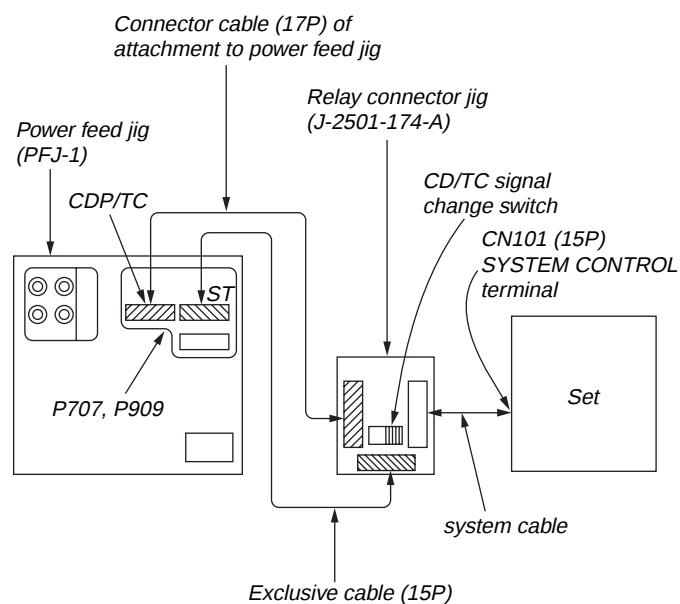
In this case, after turn on the POWER switch on the Power Feed Jig, supply power with the following methods.

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.

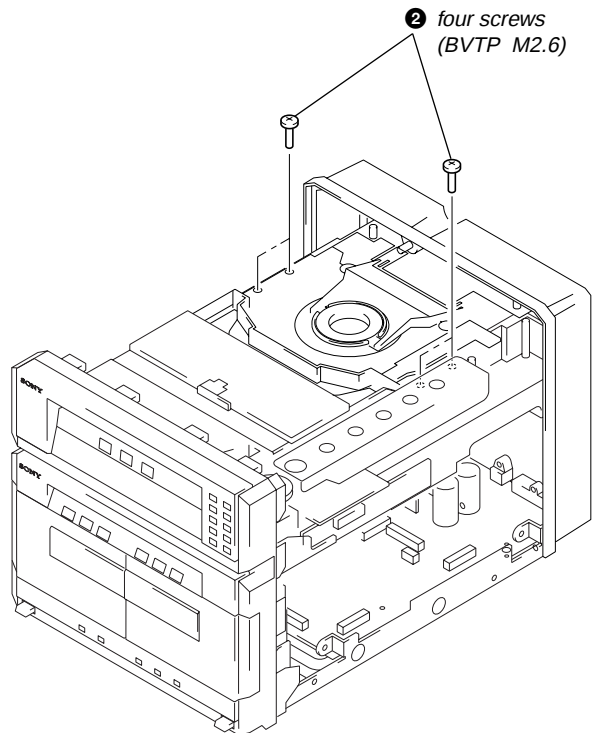
function	button
CD AMS –	(DECK A), (CD)
AMS +	(DECK A), (CD)
FR	(DECK B), (CD)
FF	(DECK B), (CD)
Deck-A REW/AMS –	(CD), (DECK A)
FF/AMS +	(CD), (DECK A)
Deck-B REW/AMS –	(CD), (DECK B)
FF/AMS +	(CD), (DECK B)

Connection:



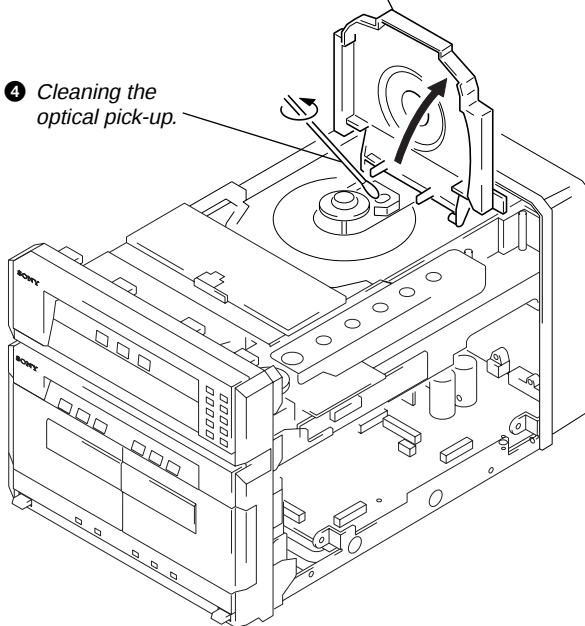
OPTICAL PICK-UP CLEANING

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



❸ Open the magnet ass'y.

❹ Cleaning the optical pick-up.

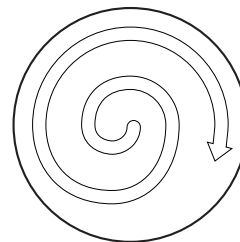


Note 1: In cleaning the lens, do not apply an excessive force.

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)

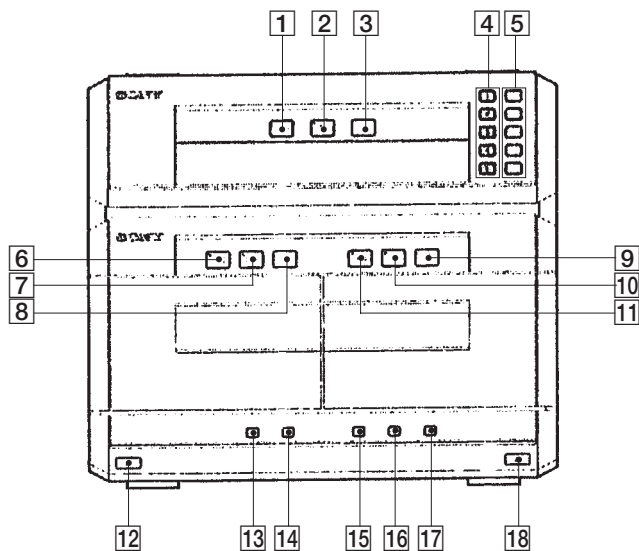


(Figure A)

SECTION 2 GENERAL

• LOCATION OF CONTROLS

– Front Panel –

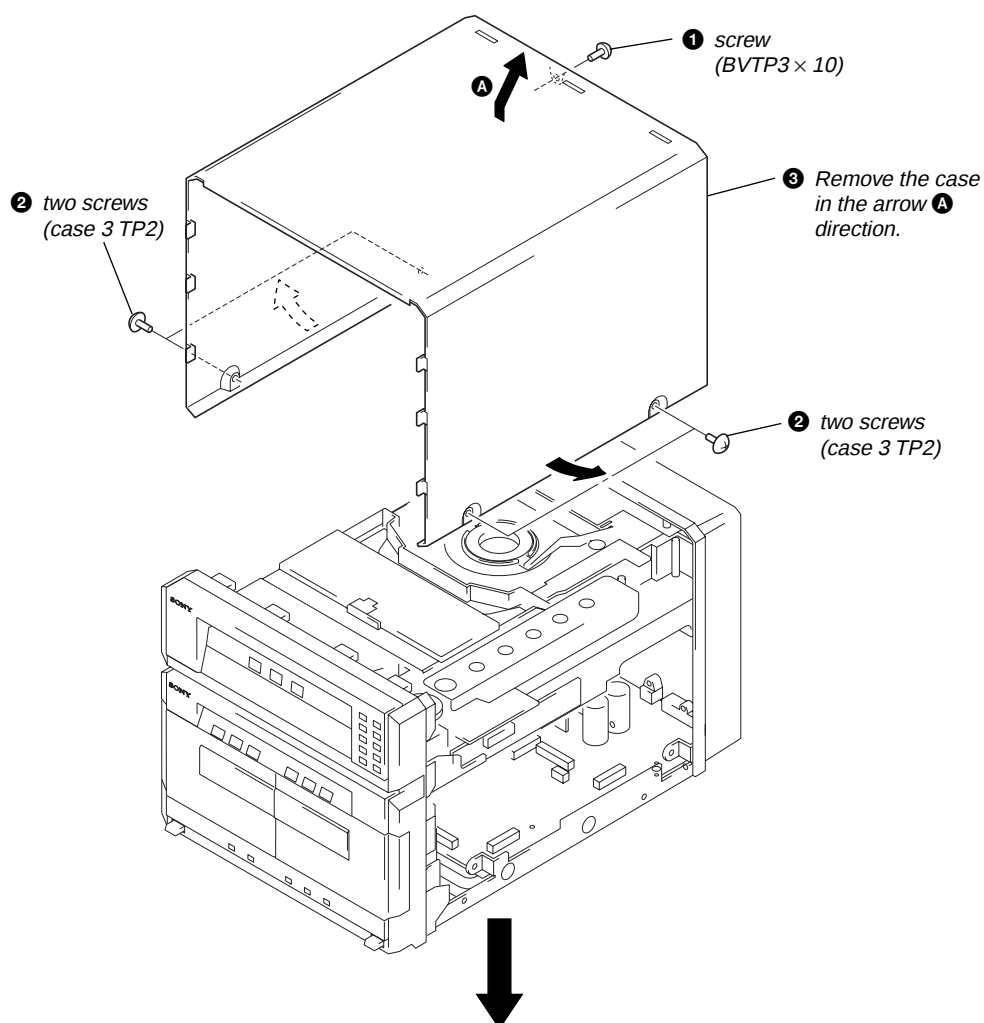


- 1 ▷ (CD) button and indicator
- 2 ▢ (CD) button and indicator
- 3 □ (CD) button
- 4 DISC1 to 5 buttons and indicators
- 5 ≡ (DISC1 to 5) buttons and indicators
- 6 ◁ (DECK A) button and indicator
- 7 ▷ (DECK A) button and indicator
- 8 □ (DECK A) button
- 9 □ (DECK B) button
- 10 ▷ (DECK B) button 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

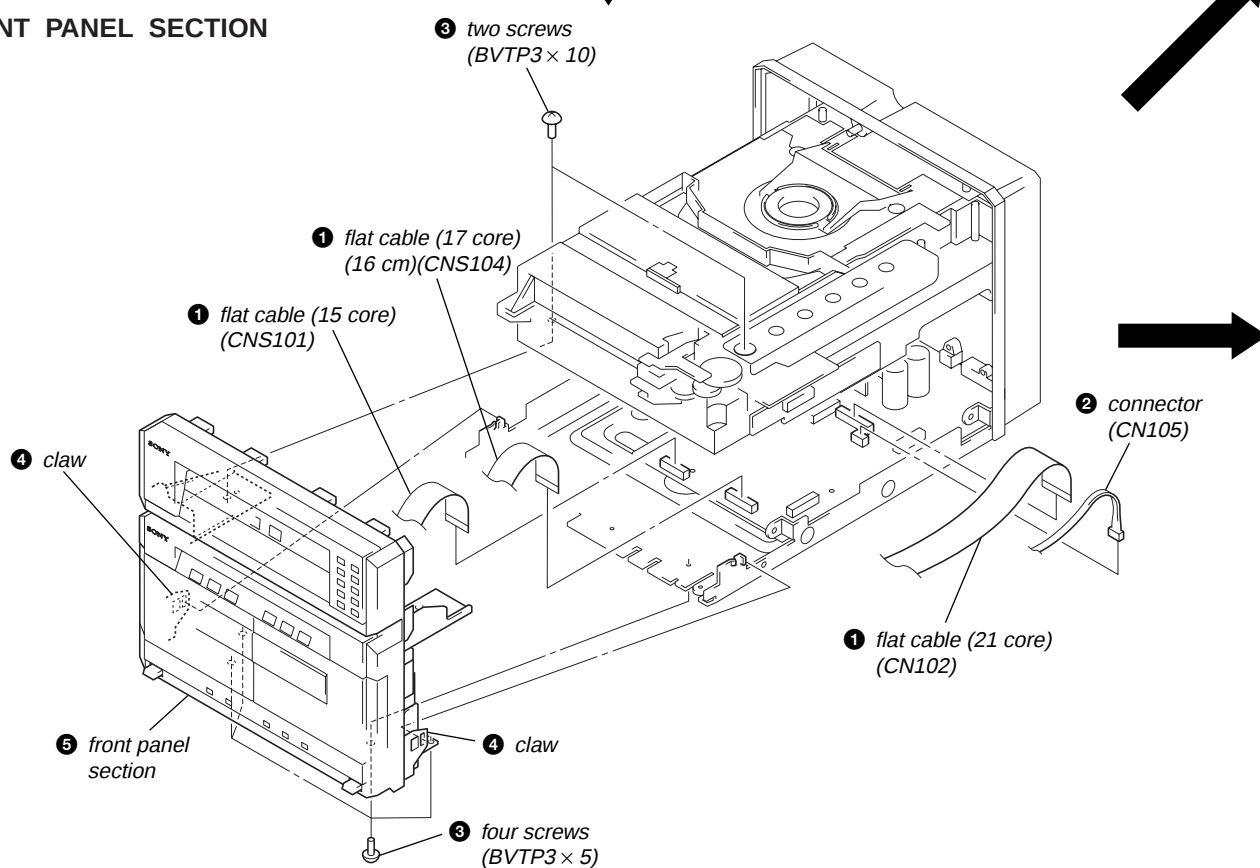
SECTION 3 DISASSEMBLY

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

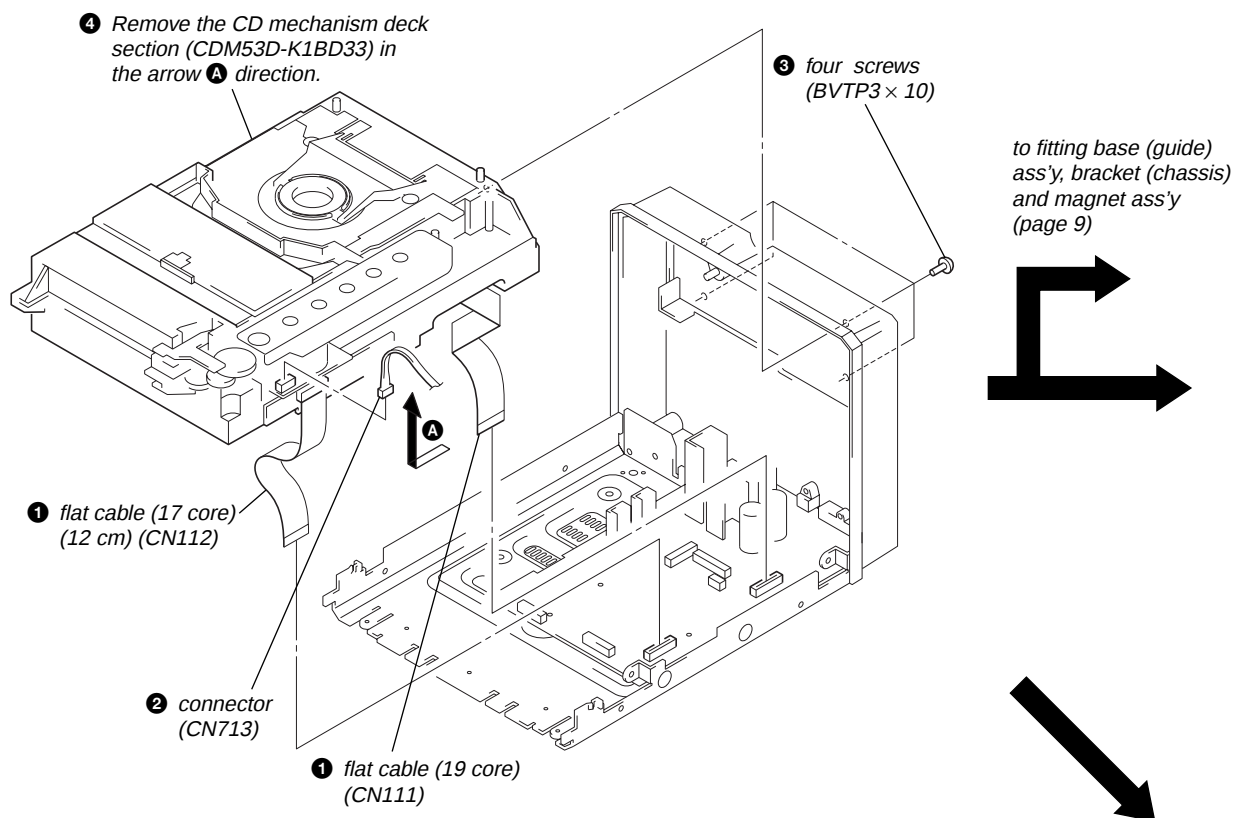
CASE



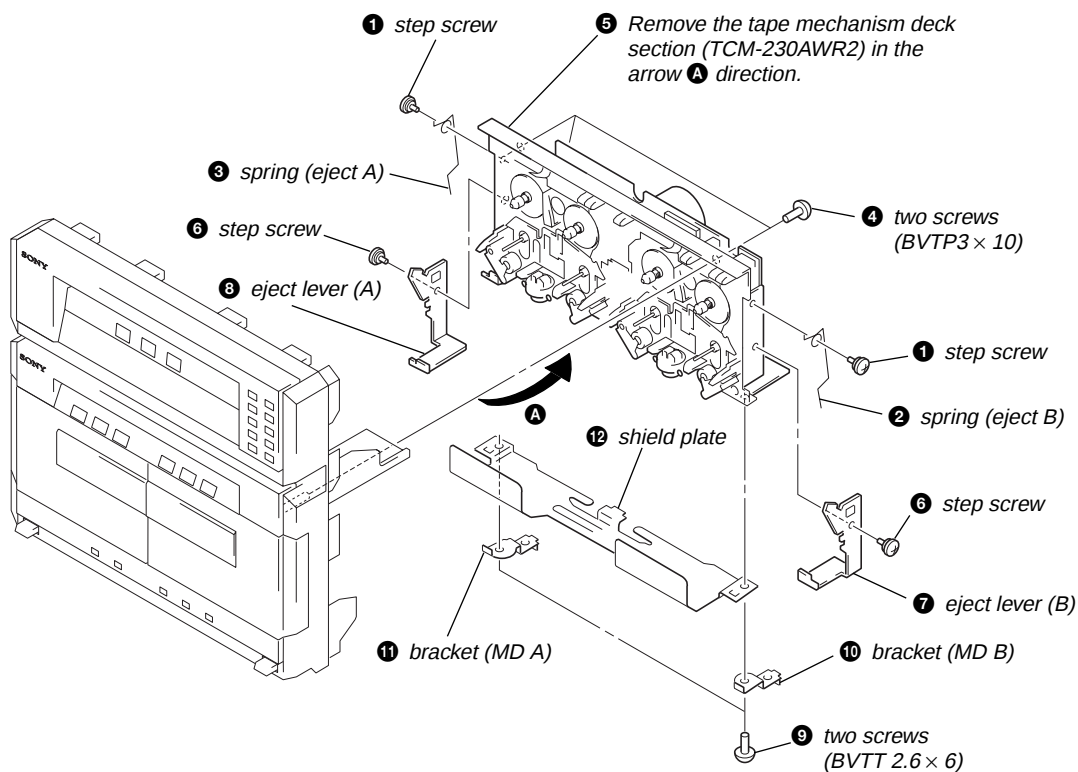
FRONT PANEL SECTION



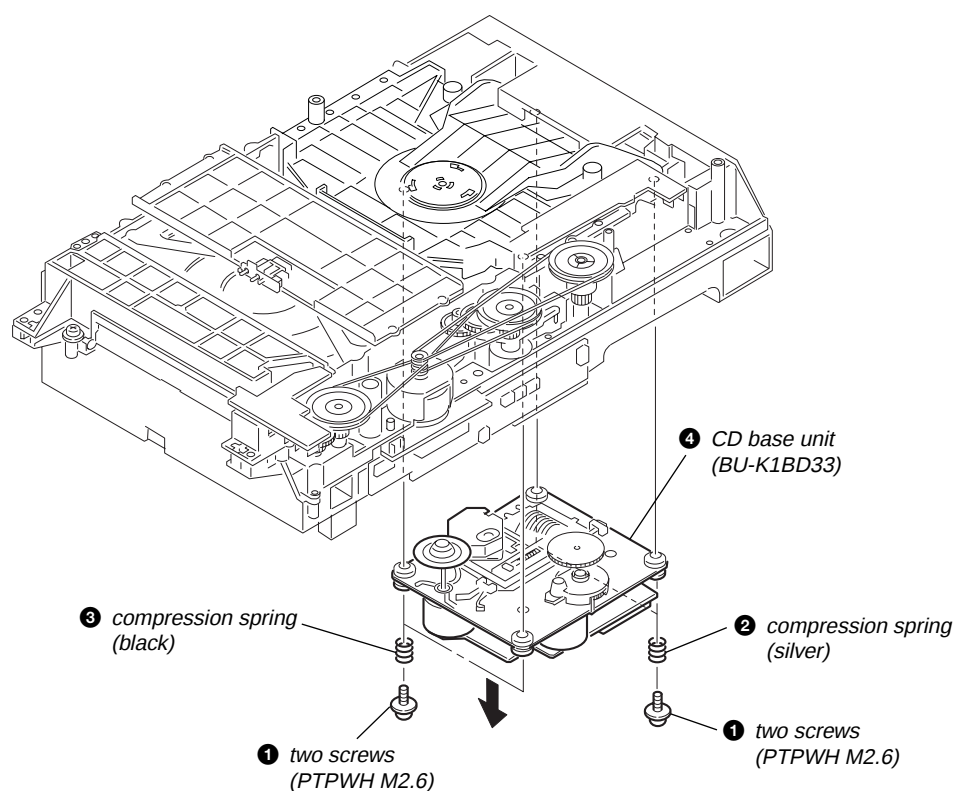
CD MECHANISM DECK SECTION (CDM53D-K1BD33)



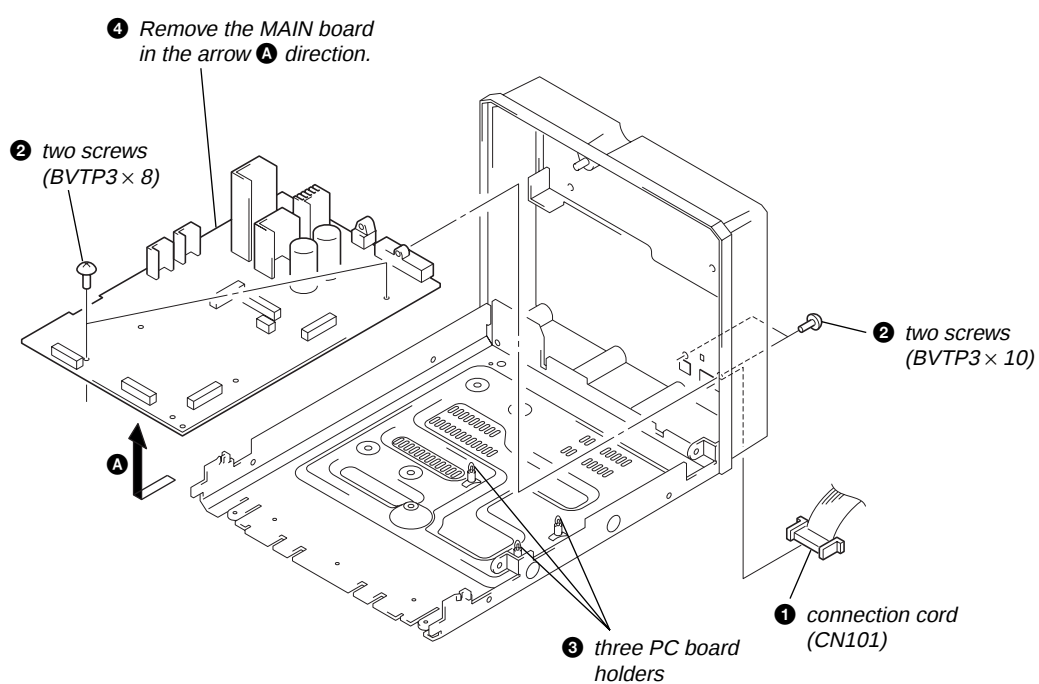
TAPE MECHANISM DECK SECTION (TCM-230AWR2)



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)

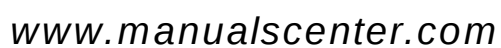
5 bracket (chassis)

6 connector (CN710)

7 four screws (BVTP M2.6)

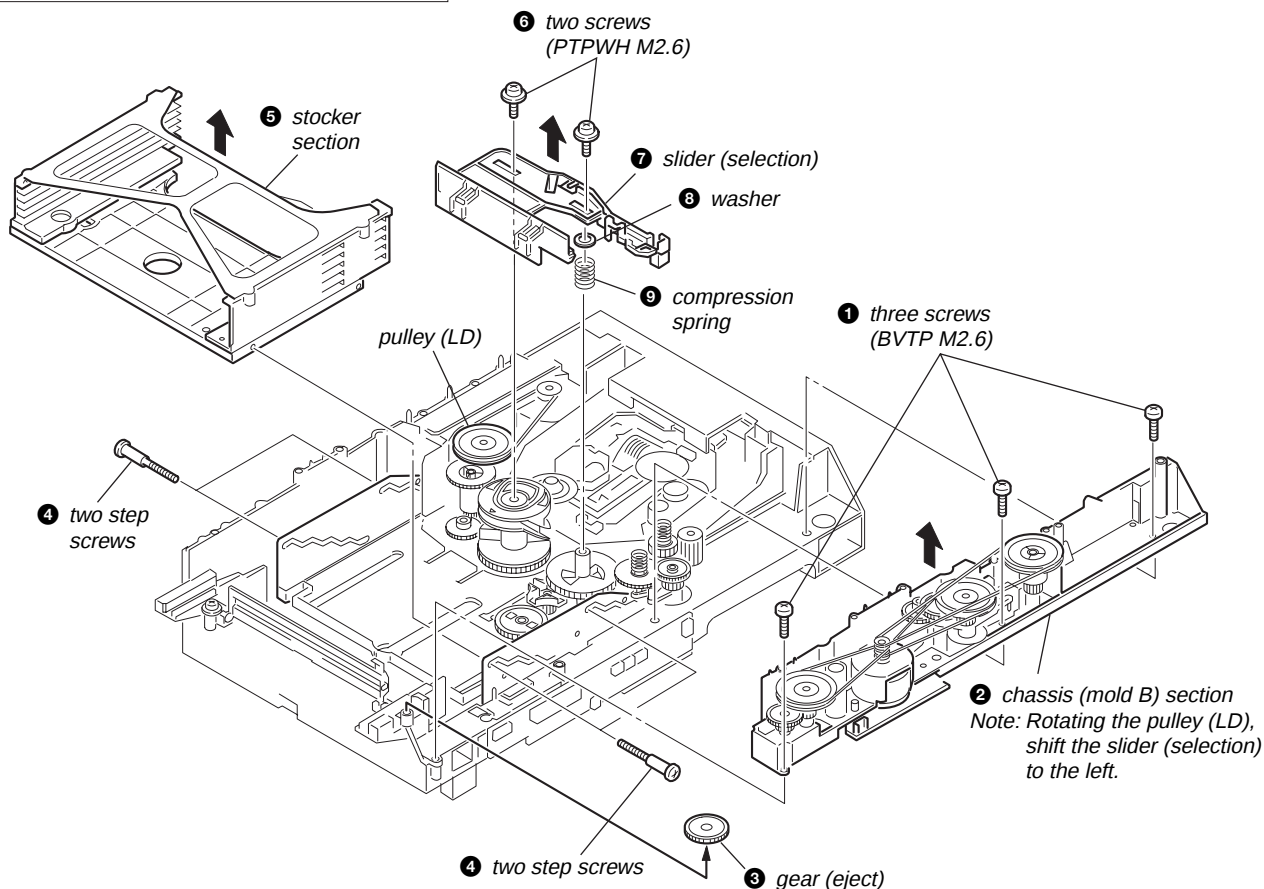
8 magnet ass'y

- 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.

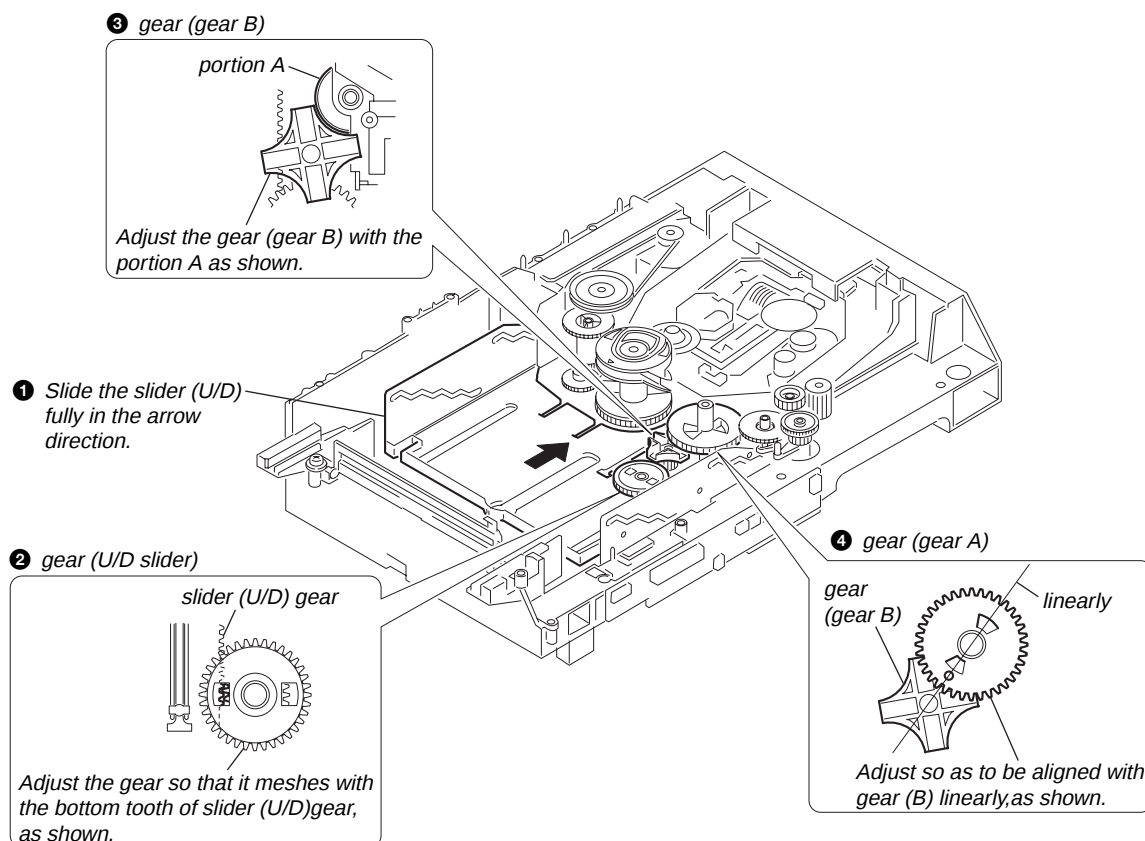


CHASSIS (MOLD B) SECTION, STOCKER SECTION AND SLIDER (SELECTION)

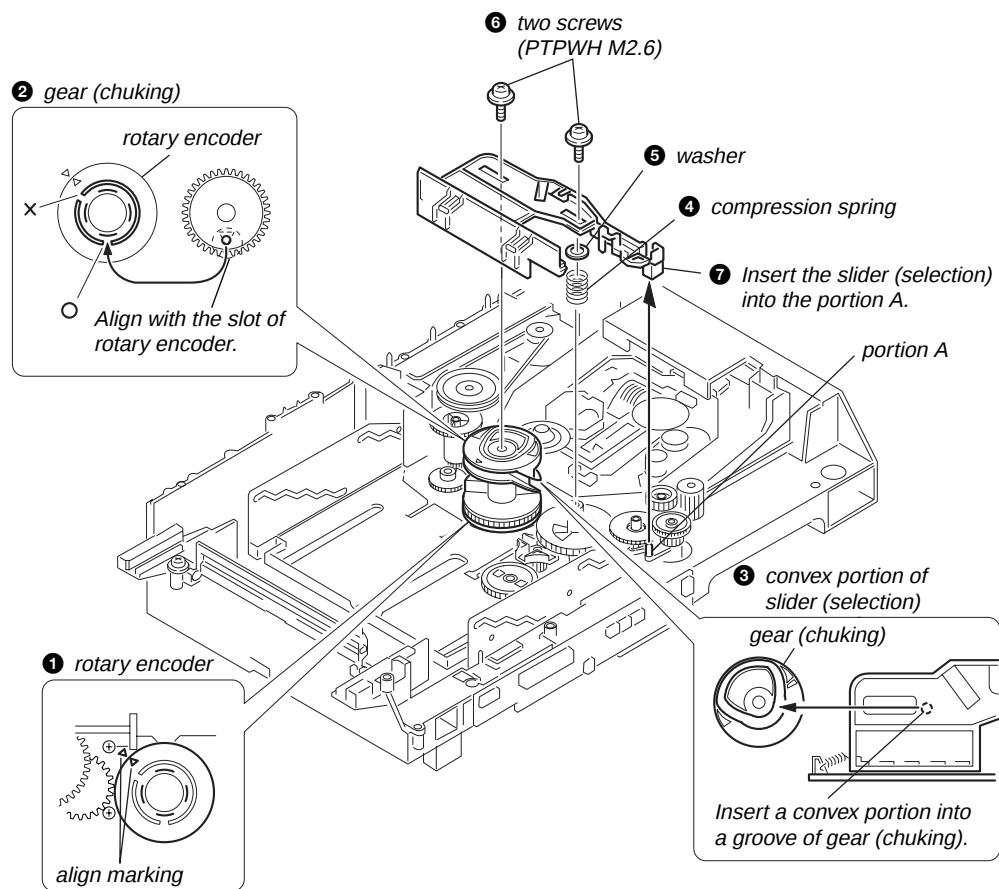
Note: In mounting the parts, refer to page 11 and 12.



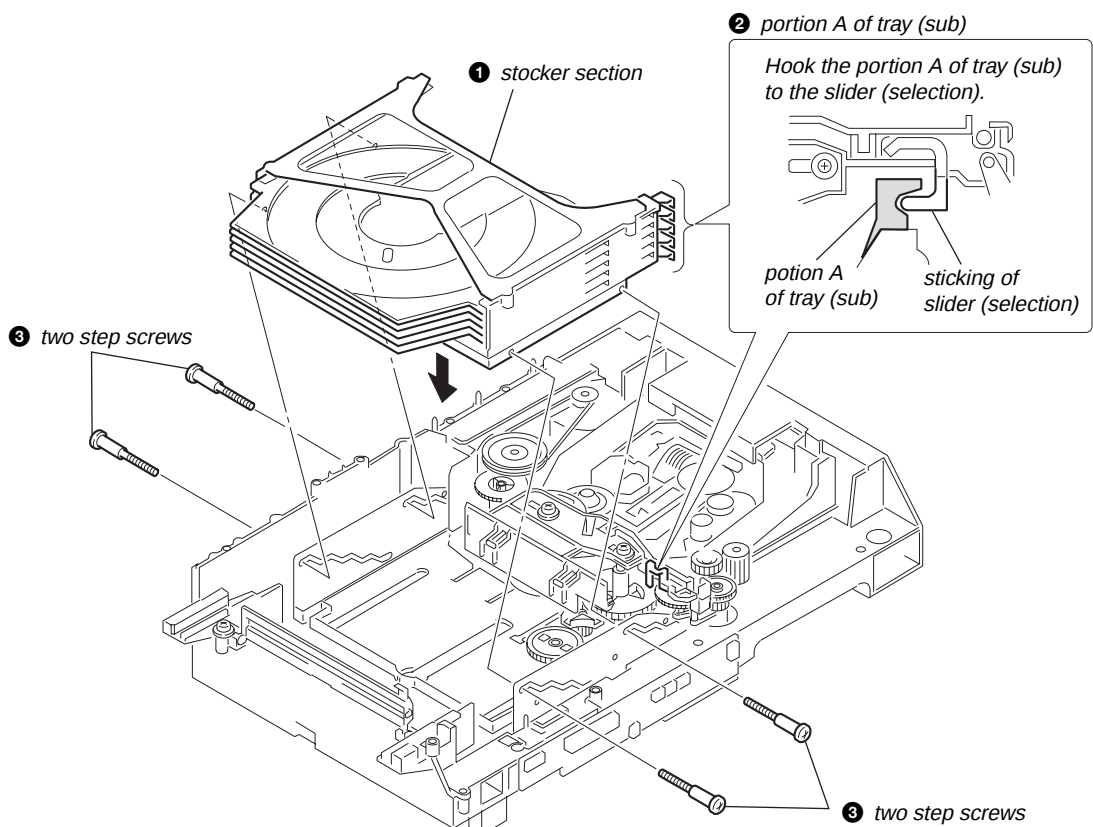
GEARS INSTALLATION



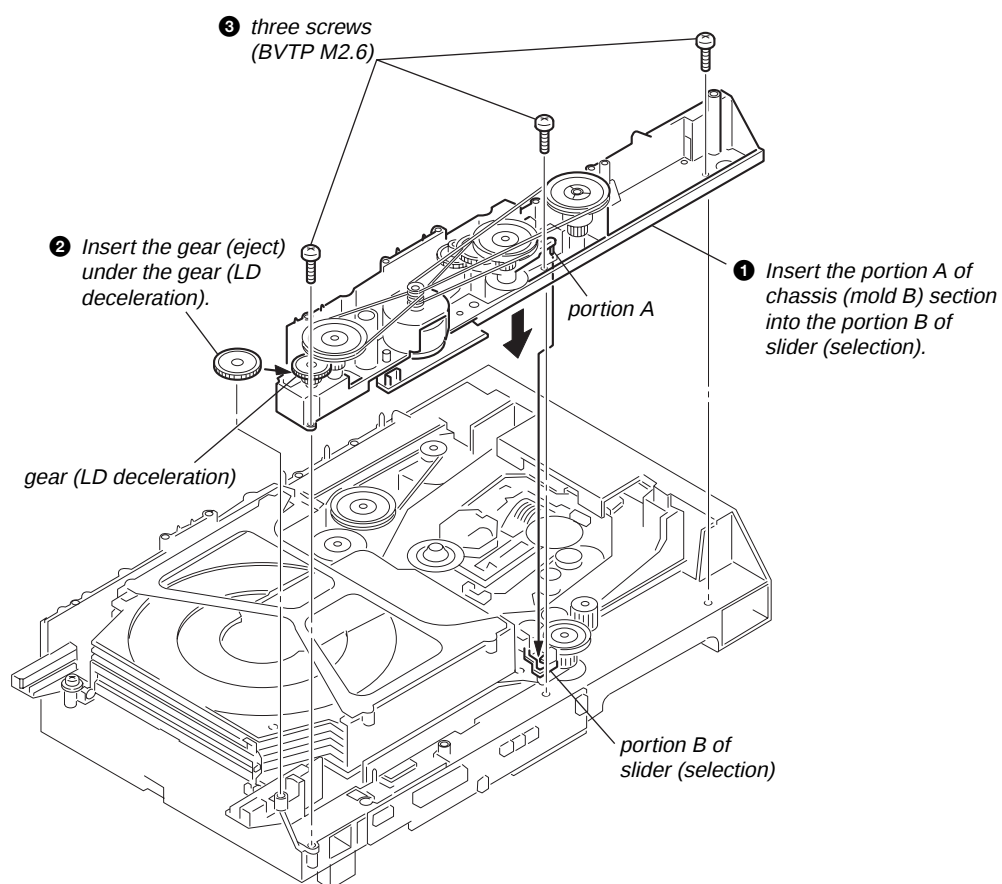
SLIDER (SELECTION) INSTALLATION



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

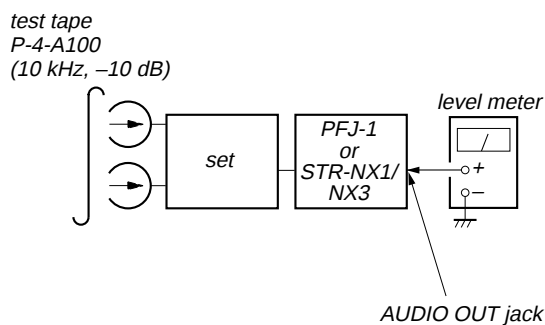
DECK A

DECK B

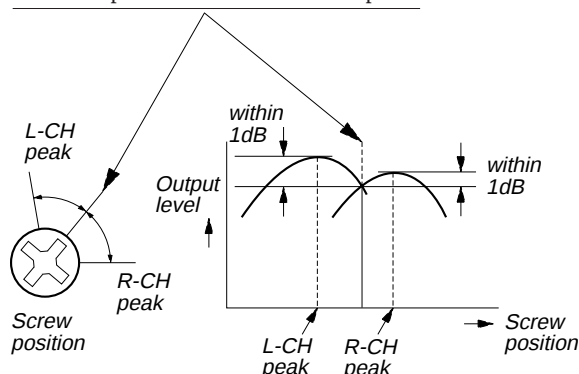
Note: Perform this adjustments for both decks

Procedure:

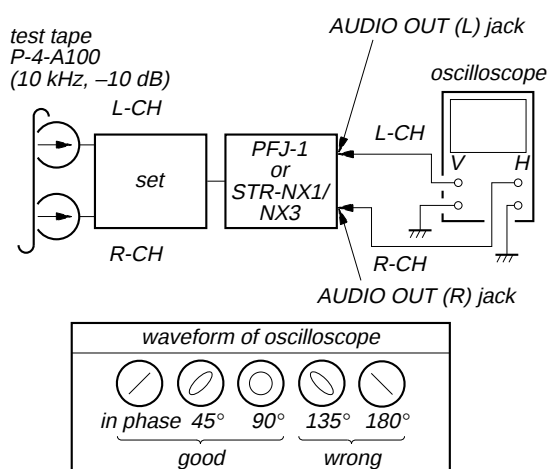
1. Mode: Playback



- 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.

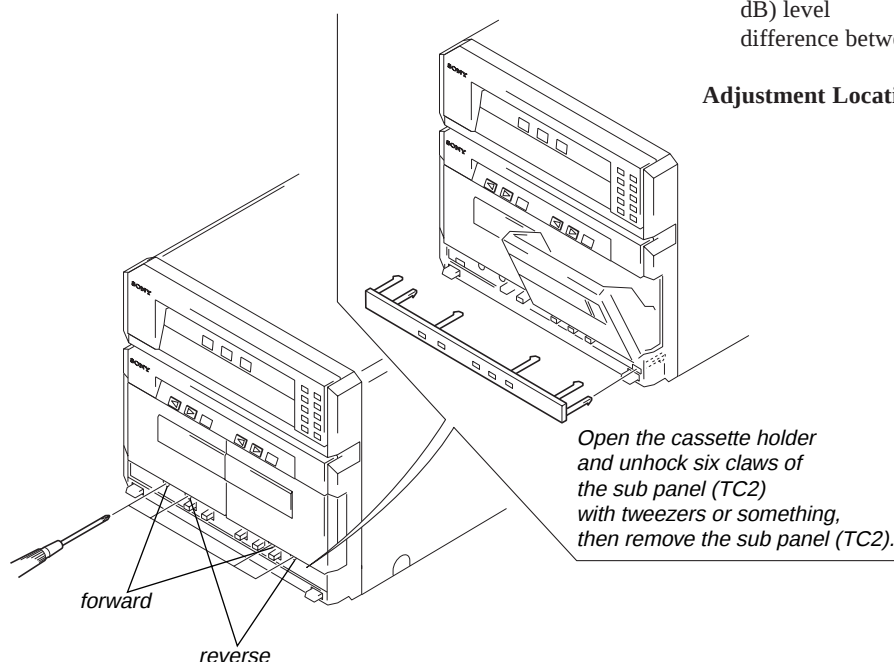


- Mode: Playback



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

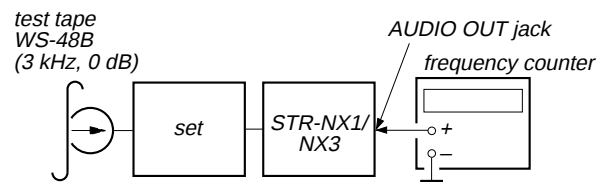
Adjustment Location: Playback Head (Deck A).
Record/Playback/Earth Head (Deck B).



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.

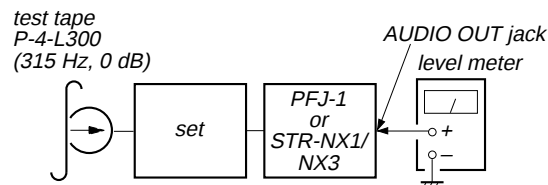
Adjustment Location: LEAF SW board

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

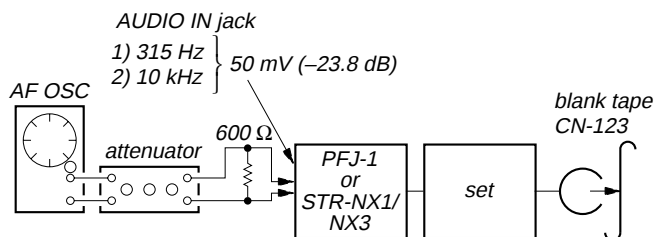
difference between the channels: within ± 0.5 dB

Adjustment Location: AUDIO board

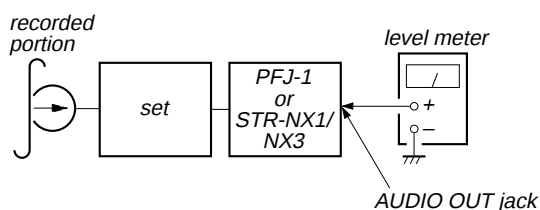
REC Bias Adjustment **DECK B**

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.

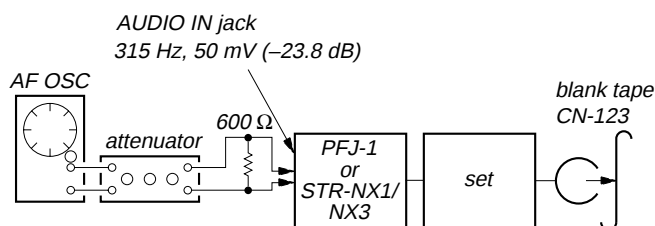
Specified value: Playback output of 315 Hz to playback output of 10 kHz: ± 0.5 dB

Adjustment Location: AUDIO board

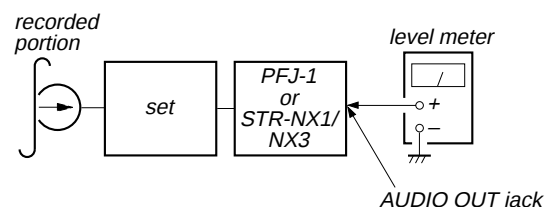
REC Level Adjustment **DECK B**

Procedure:

1. Mode: Record



2. Mode: Playback



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

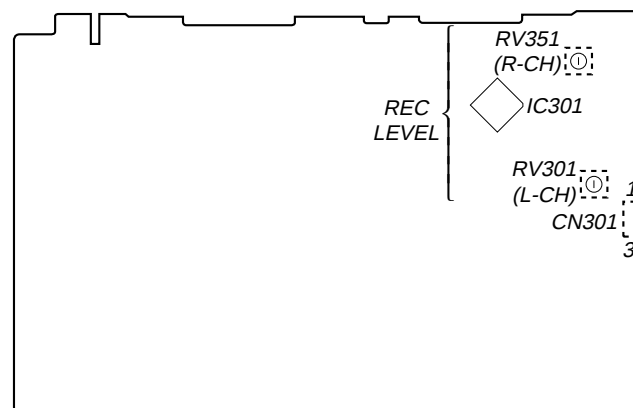
If these values are out of specified value, adjust the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 1 and 2.

Specified value:

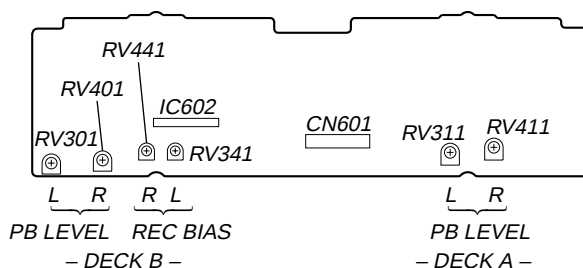
AUDIO OUT jack PB level: 47.2 to 53.0 mV (-24.3 to -23.3 dB)

Adjustment Location: MAIN board

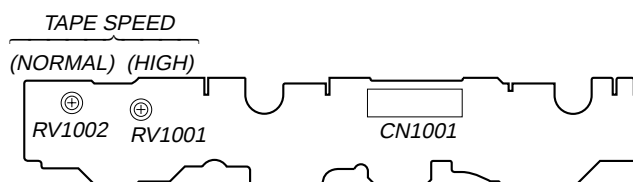
– MAIN BOARD (Conductor Side) –



– AUDIO BOARD (Component Side) –



– LEAF SW BOARD (Component Side) –

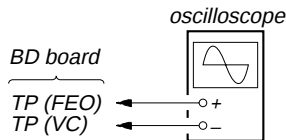


CD SECTION

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)

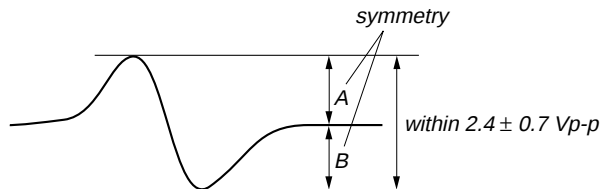
1. S-CURVE CHECK



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

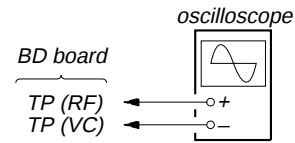


7. After check, remove the lead wire connected in step 2.

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

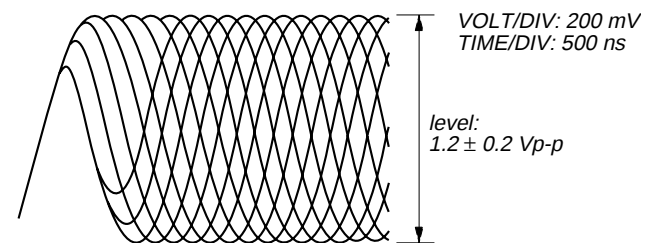


Procedure:

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.

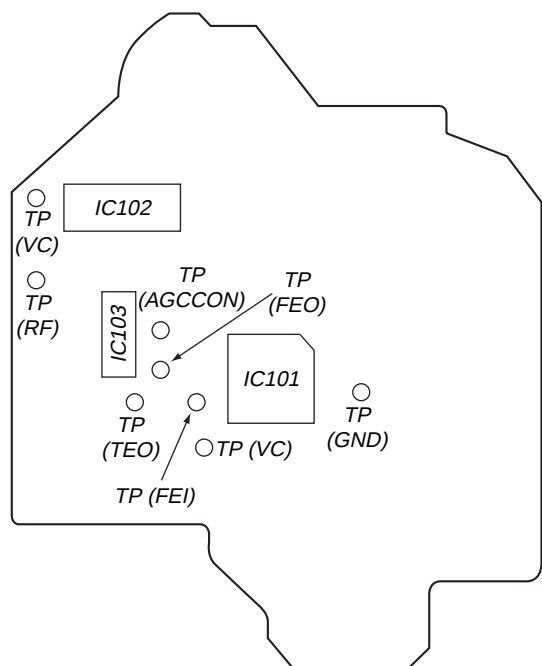
Note: Clear RF signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.

RF signal waveform

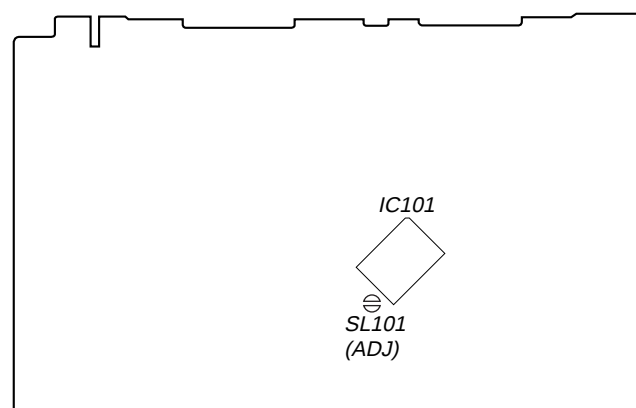


Connecting points:

– BD BOARD (Side B) –



– MAIN BOARD (Conductor Side) –



SECTION 7
DIAGRAMS

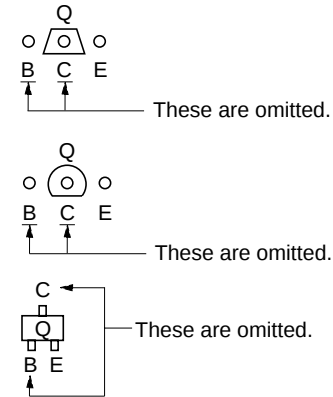
7-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS
(In addition to this, the necessary note is printed in each block)

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:

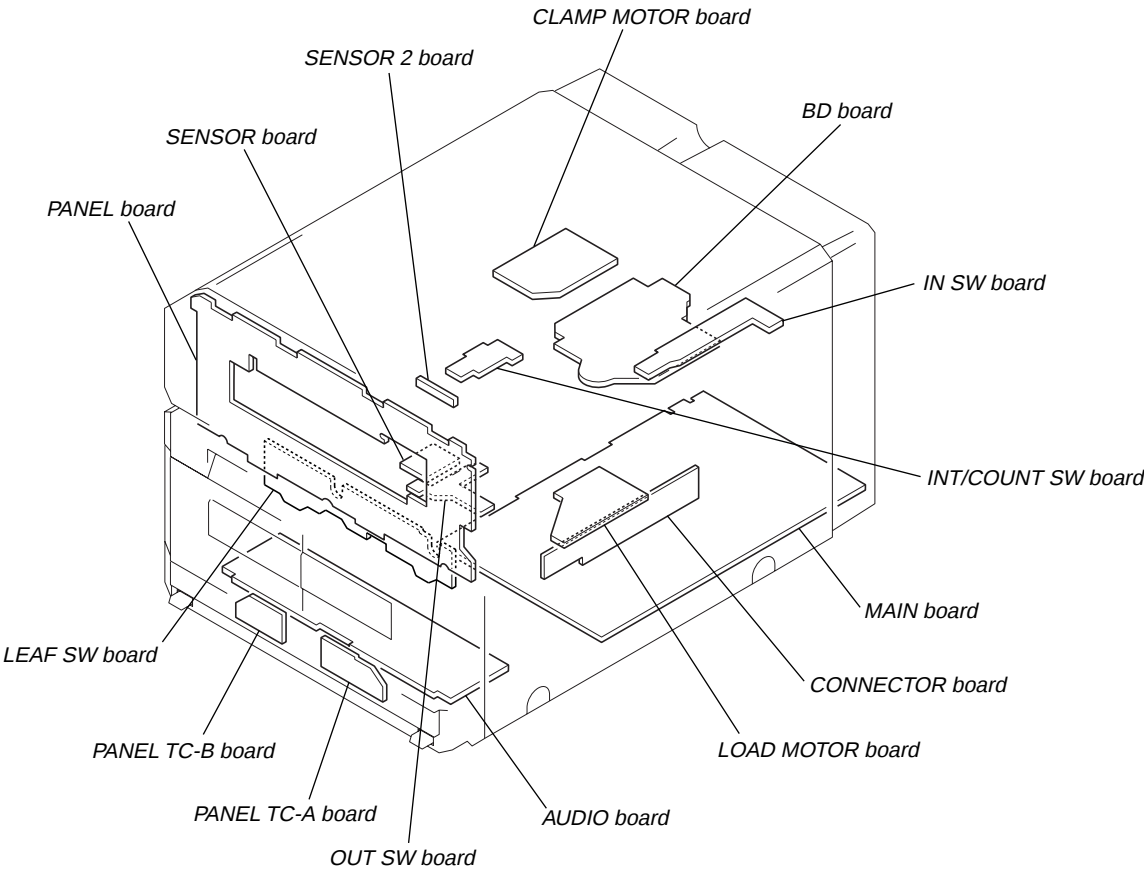
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note:

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

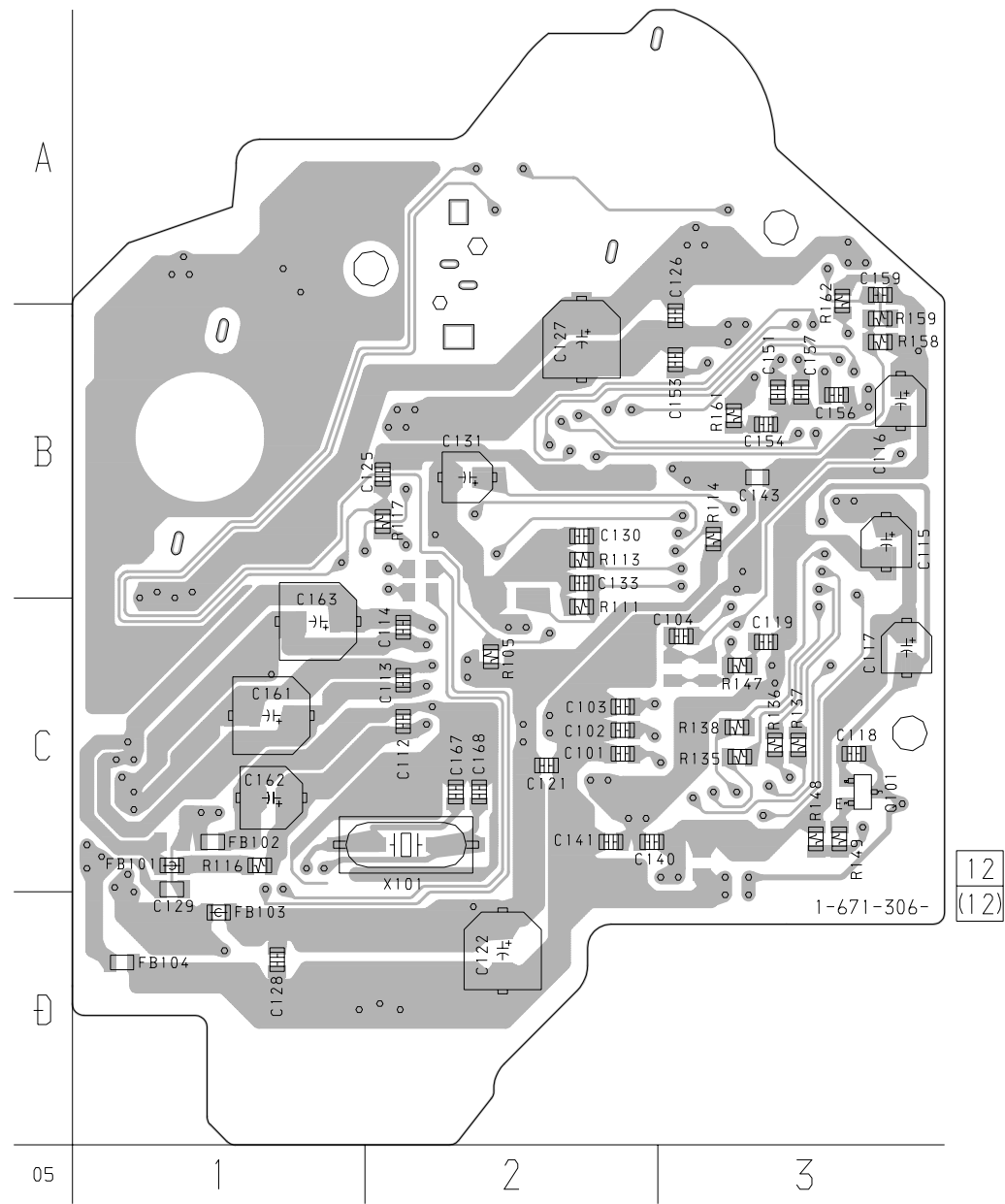
- $\text{B} +$: B+ Line.
- $\text{B} -$: B- Line.
- --- : adjustment for repair.
- Voltag es are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production 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)

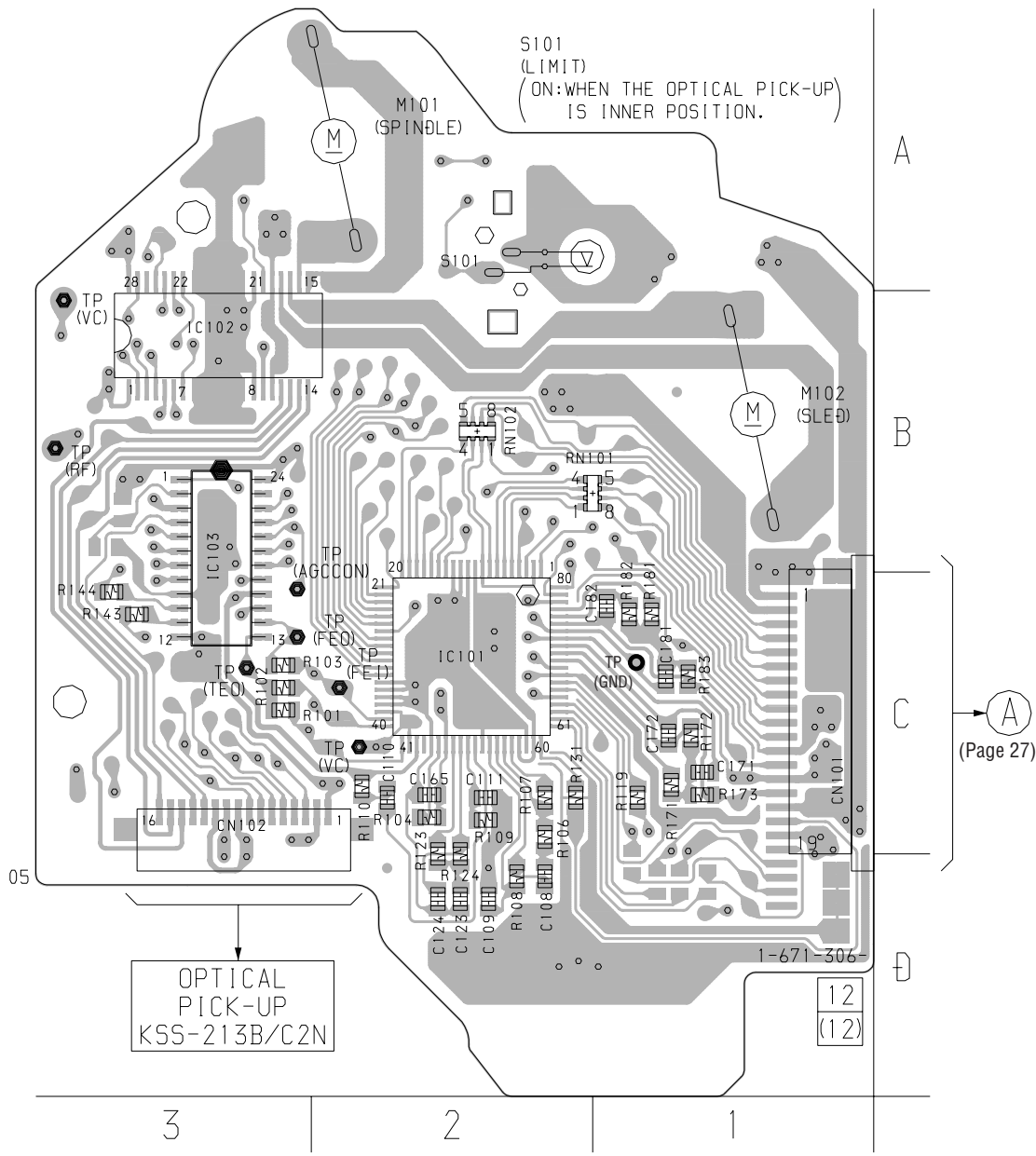


• Semiconductor Location (Side A)

Ref. No.	Location
Q101	C-3

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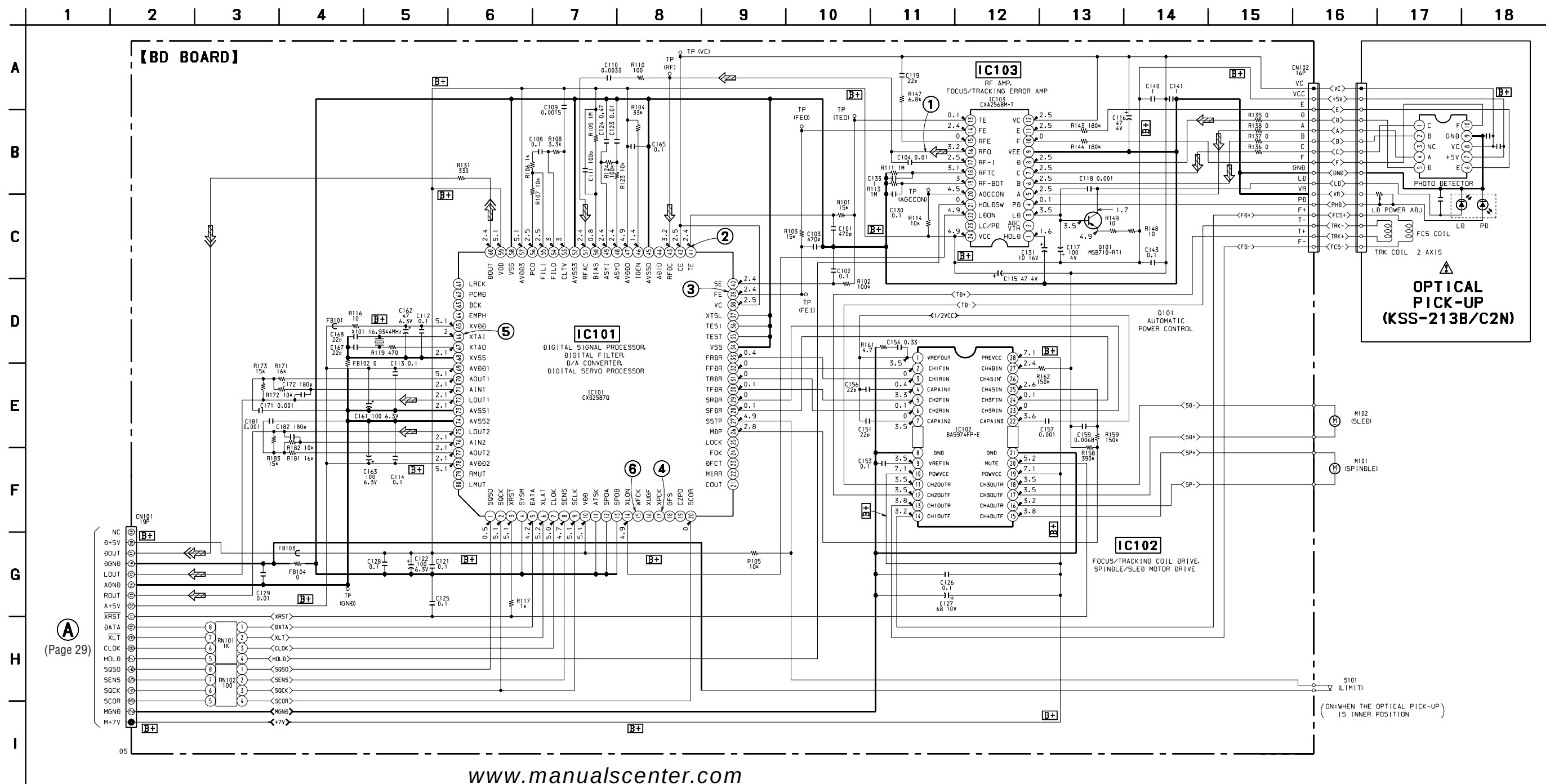
【BD BOARD】(SIDE B)



• 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.



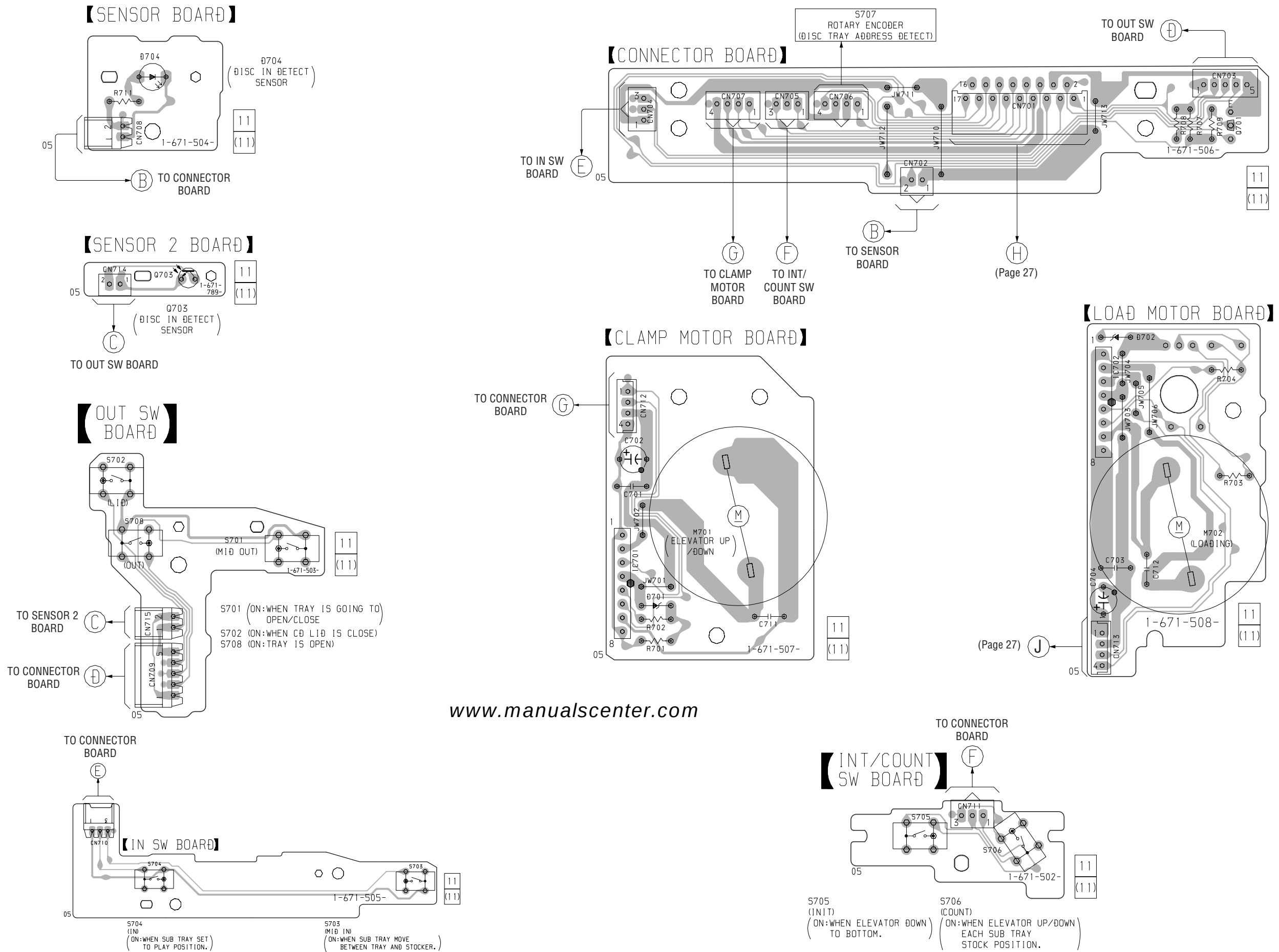
- Voltages and waveforms are dc with respect to ground under no-signal conditions.

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.

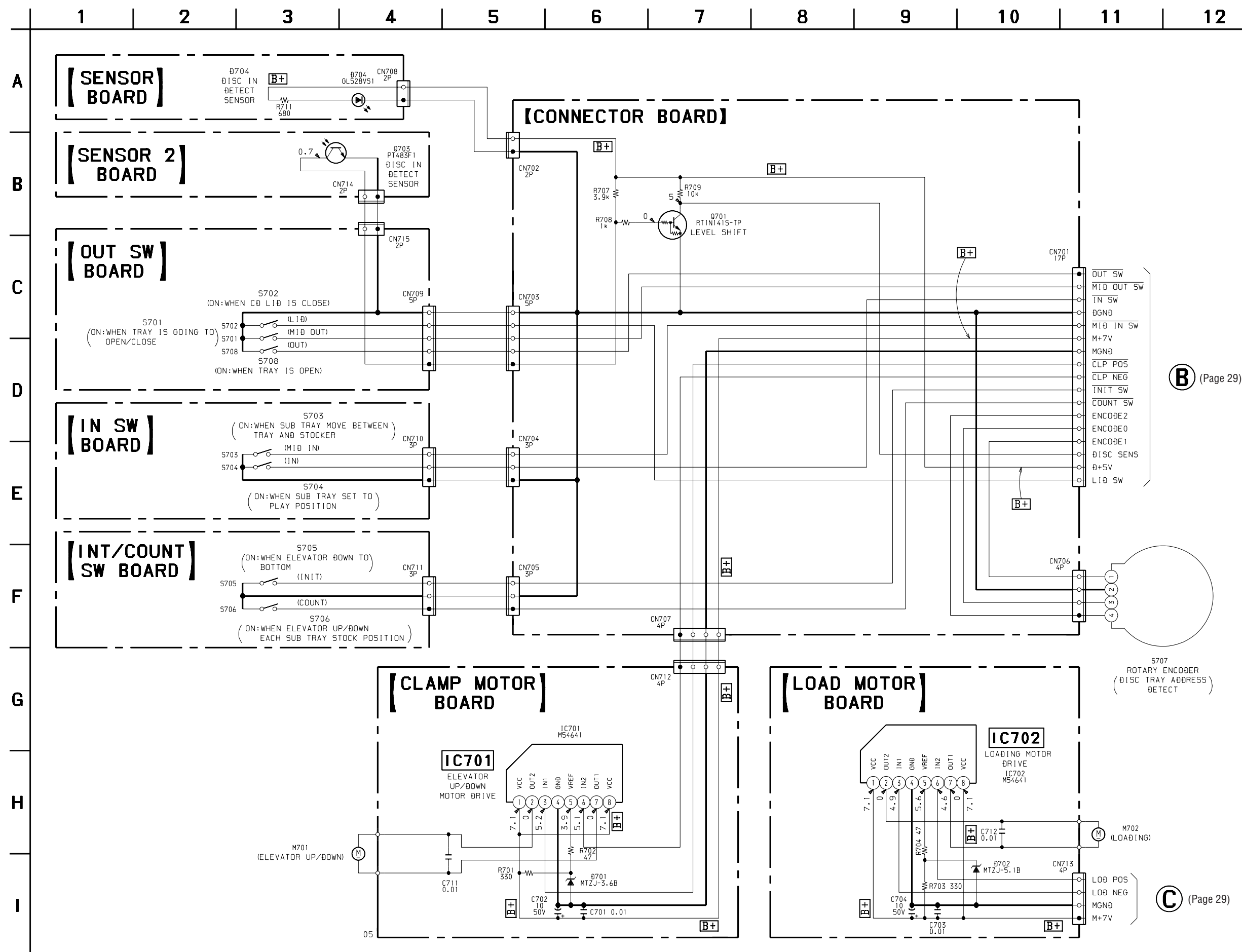
7-4. PRINTED WIRING BOARDS – CD MOTOR/SENSOR Section – • See page 19 for Circuit Boards Location.



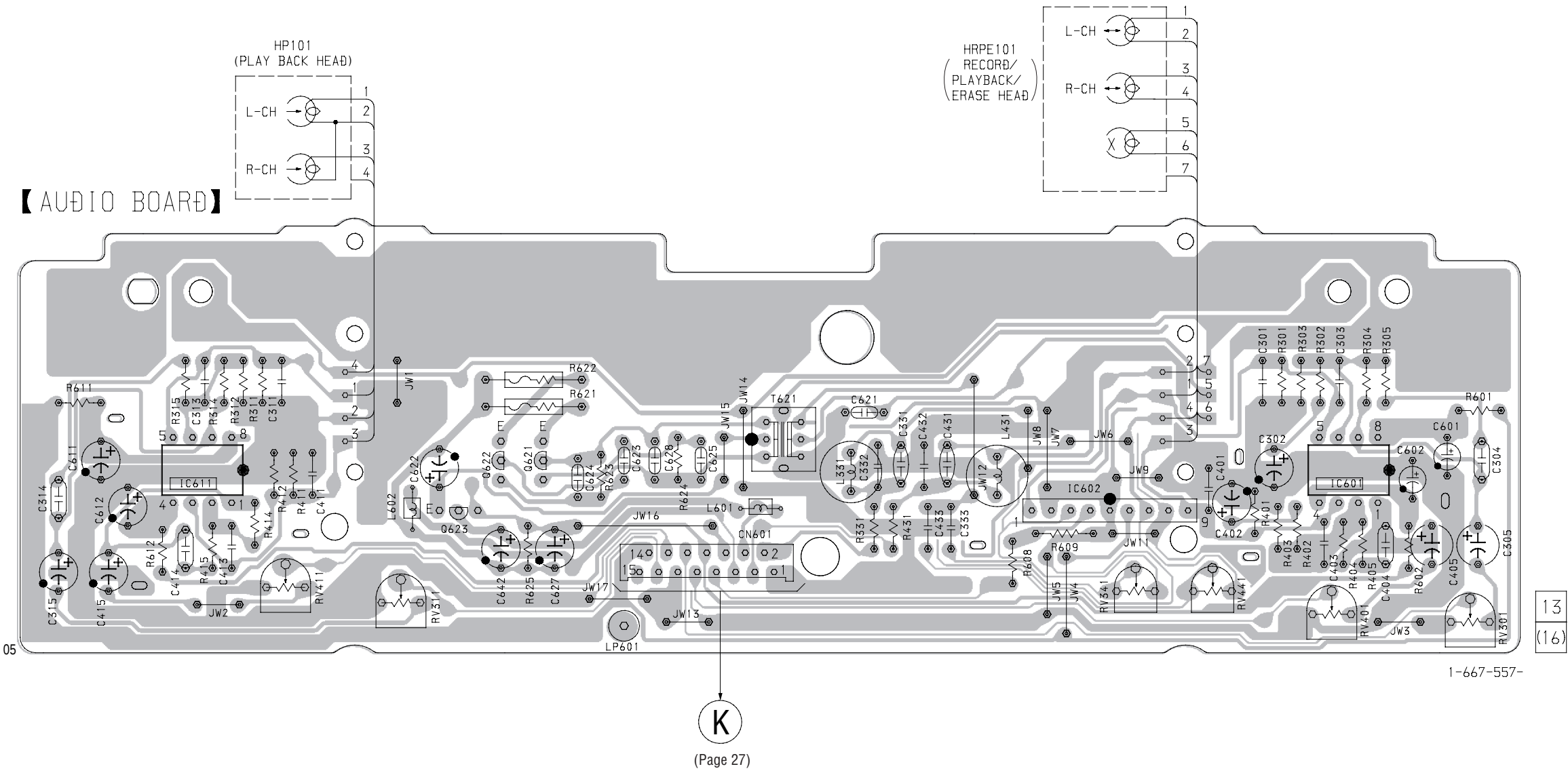
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7-5. SCHEMATIC DIAGRAM – CD MOTOR/SENSOR Section – • See page 33 for IC Block Diagram.

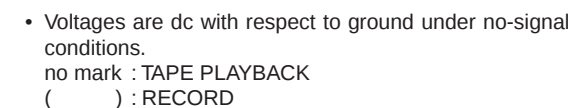
• Voltages are dc with respect to ground under no-signal conditions.
no mark : CD PLAY



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

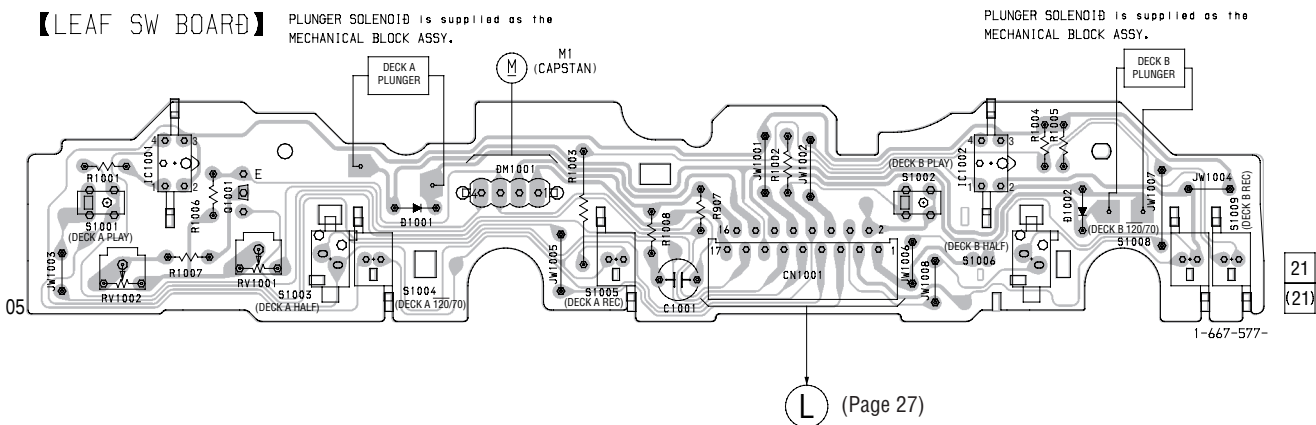


ⓓ (Page 28)

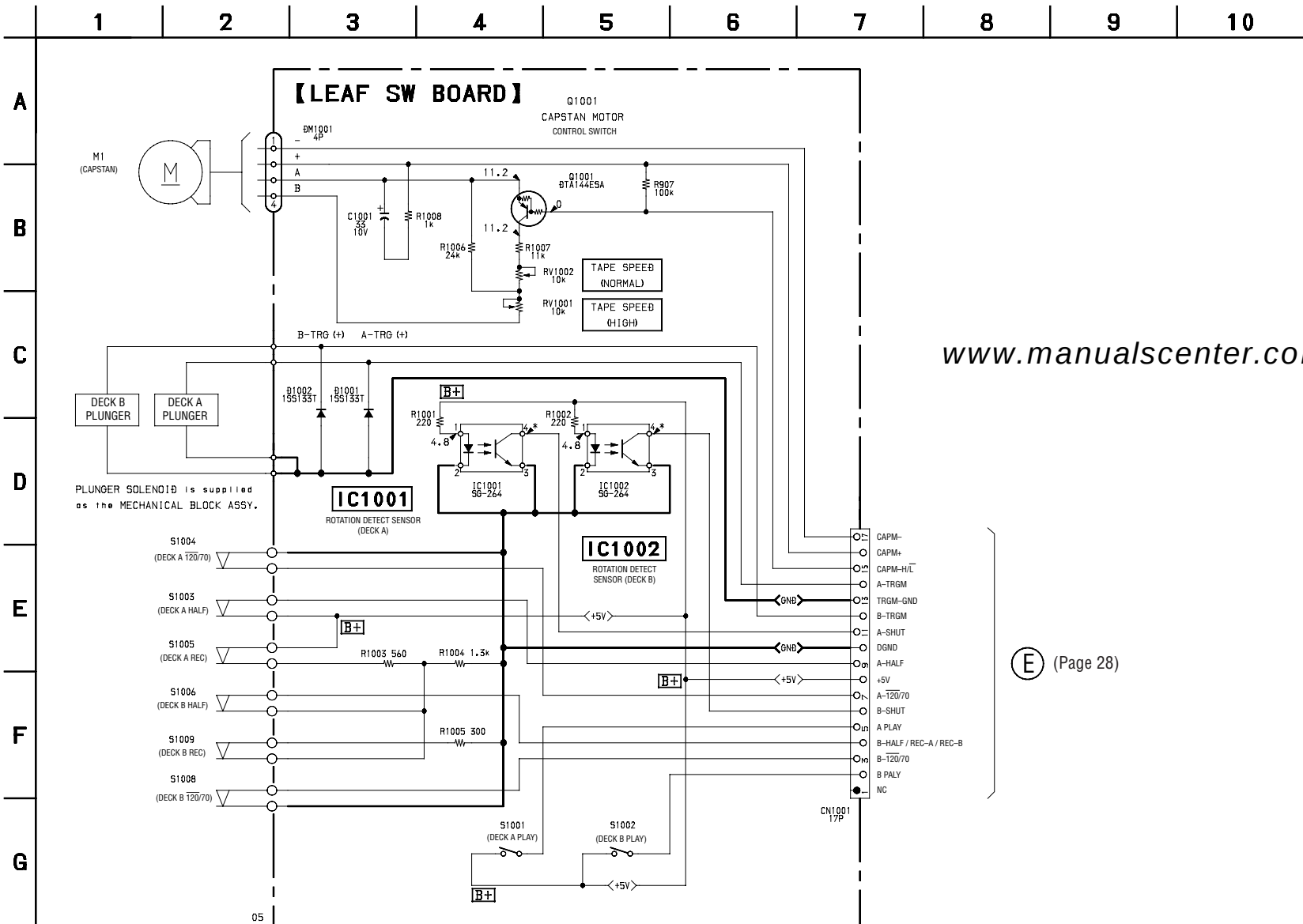


Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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



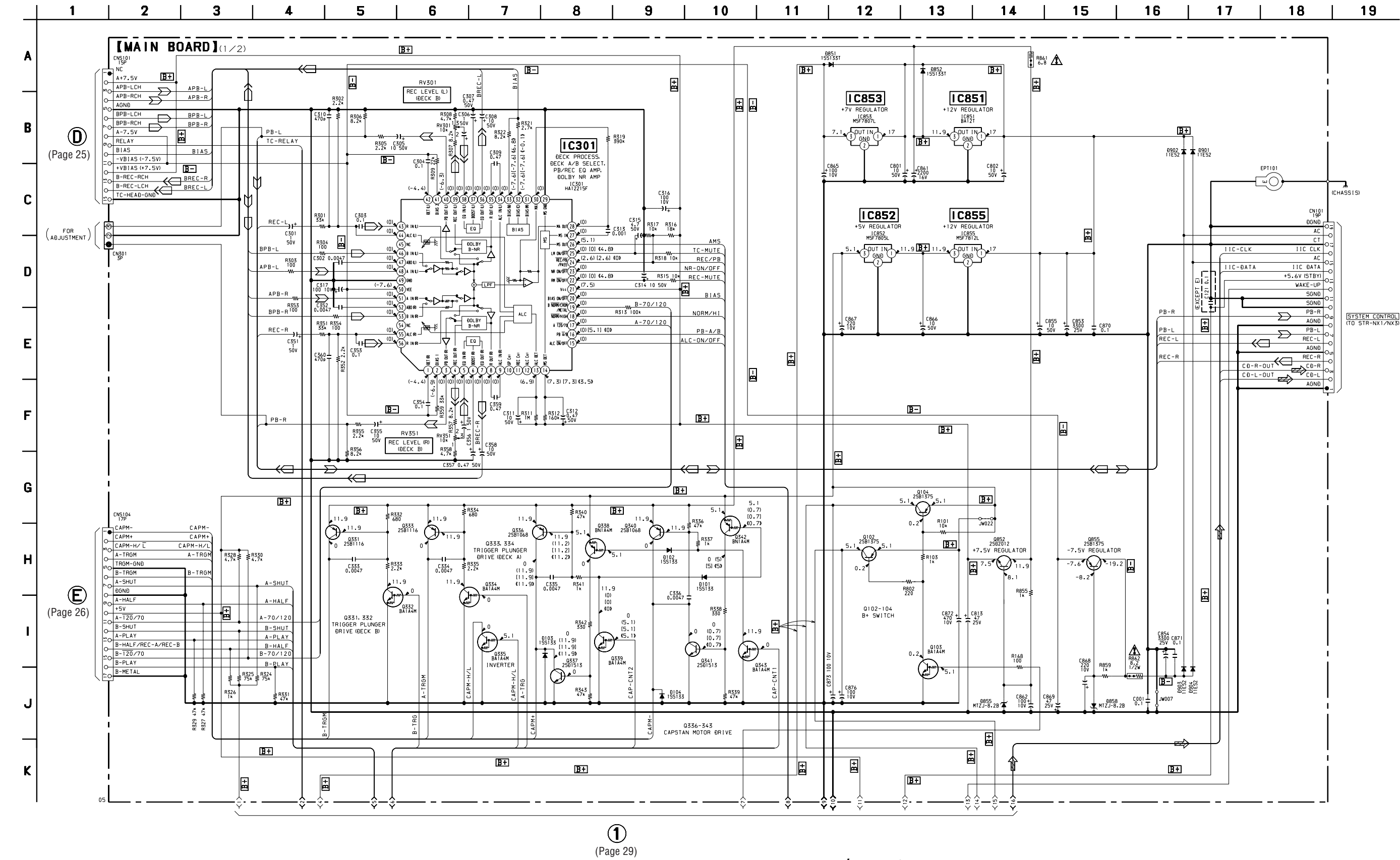
7-9. SCHEMATIC DIAGRAM – LEAF SW Board –



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

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)

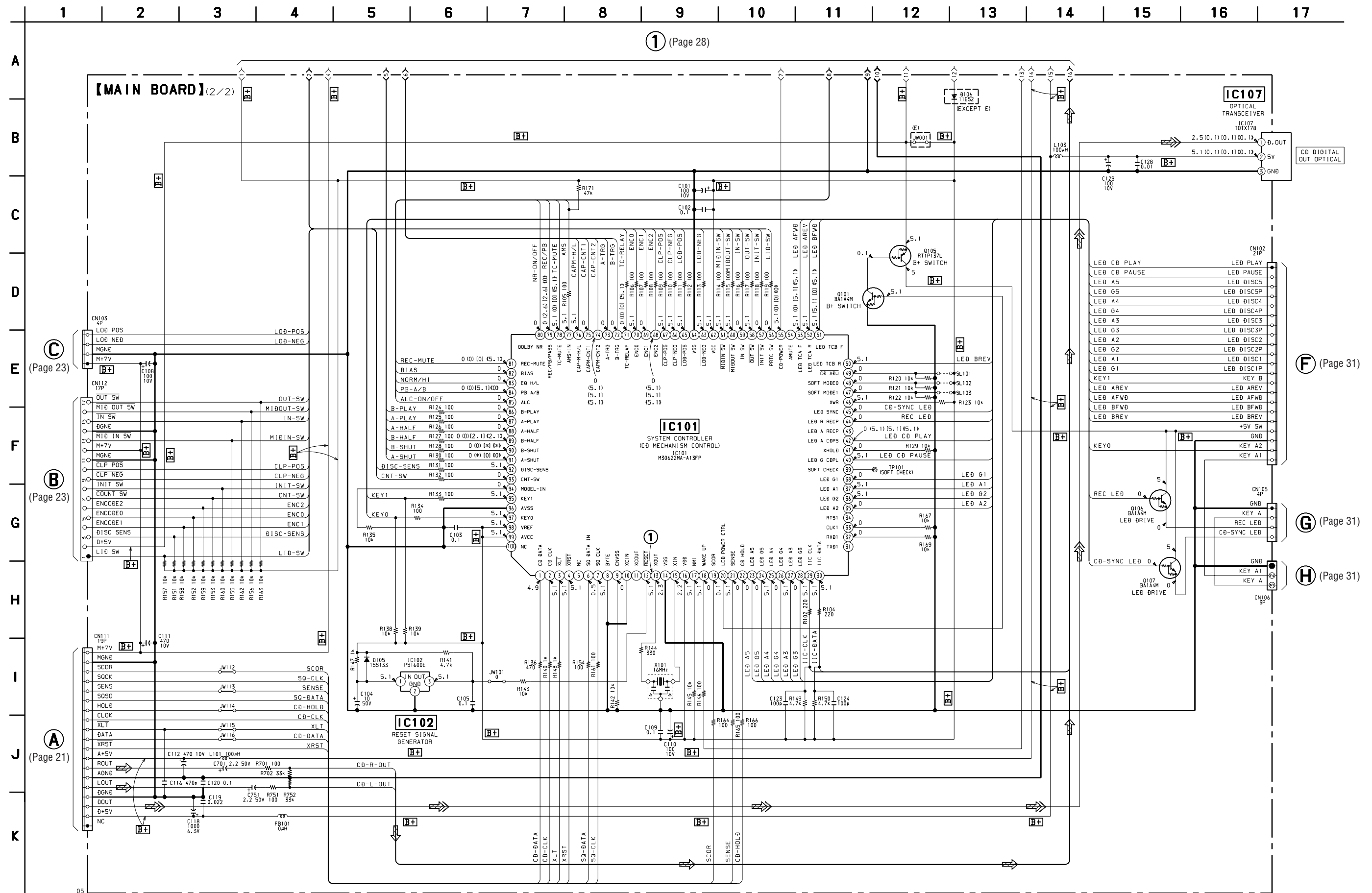
[] : TAPE PLAYBACK (DECK B)

⟨ ⟩ : 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.

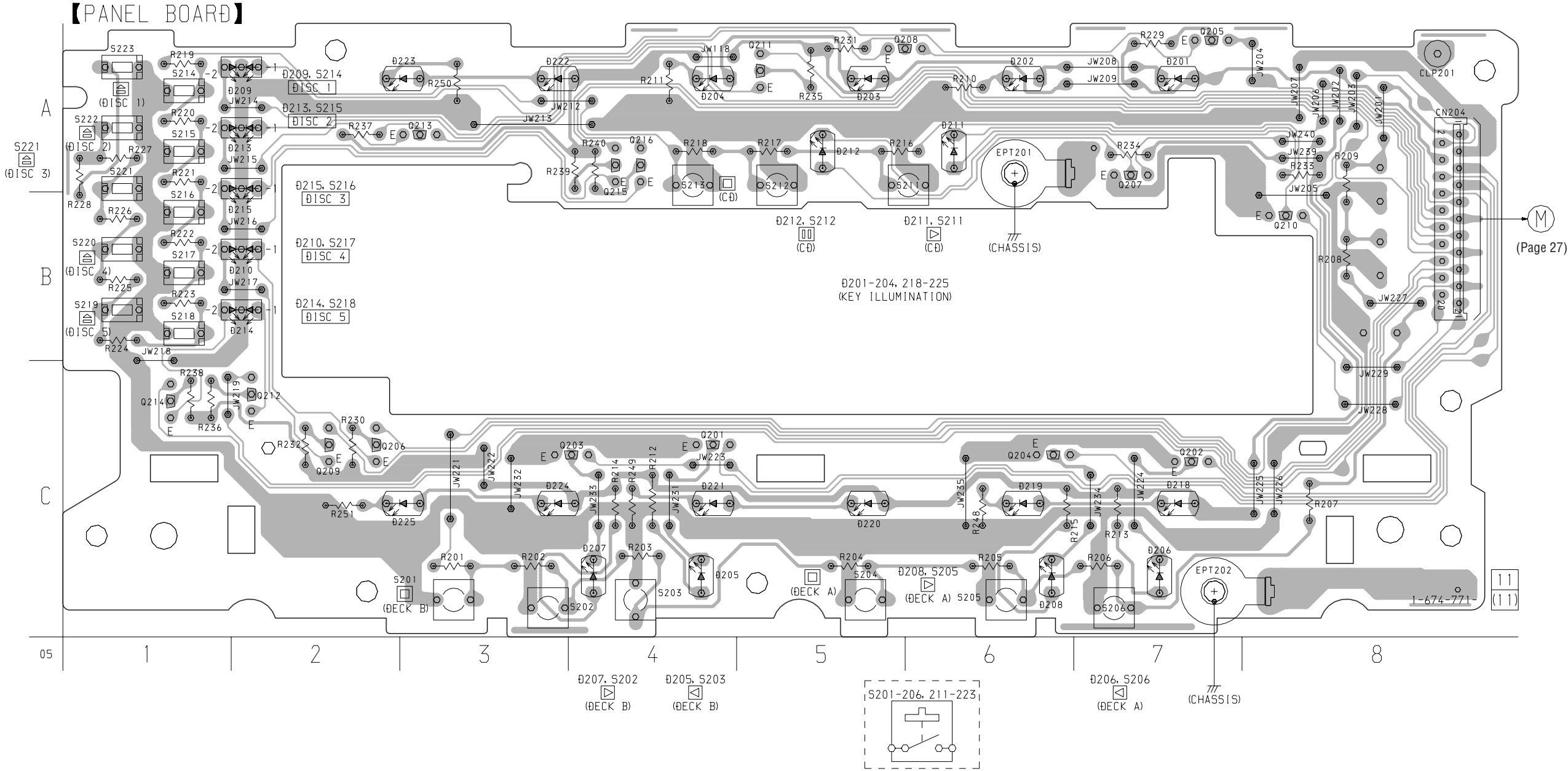
7-12. SCHEMATIC DIAGRAM – MAIN Board (2/2) – • See page 32 for Waveform.



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• Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark : CD PLAY
() : TAPE PLAYBACK (DECK A)
[] : TAPE PLAYBACK (DECK B)
⟨ ⟩ : RECORD
* : Impossible to measure

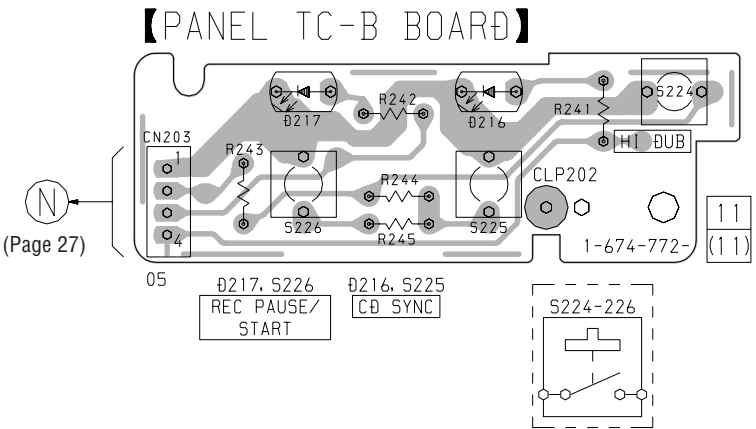
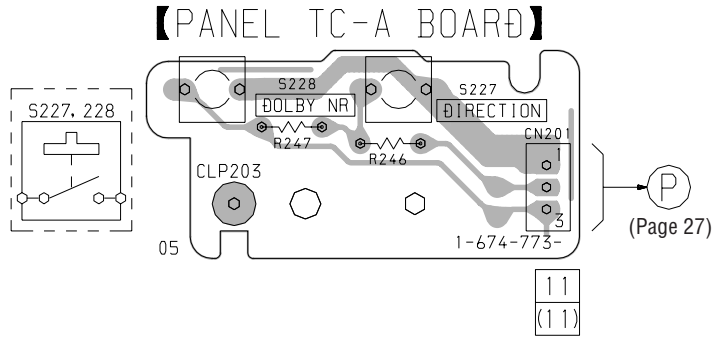
7-13. PRINTED WIRING BOARDS – PANEL Section – • See page 19 for Circuit Boards Location.



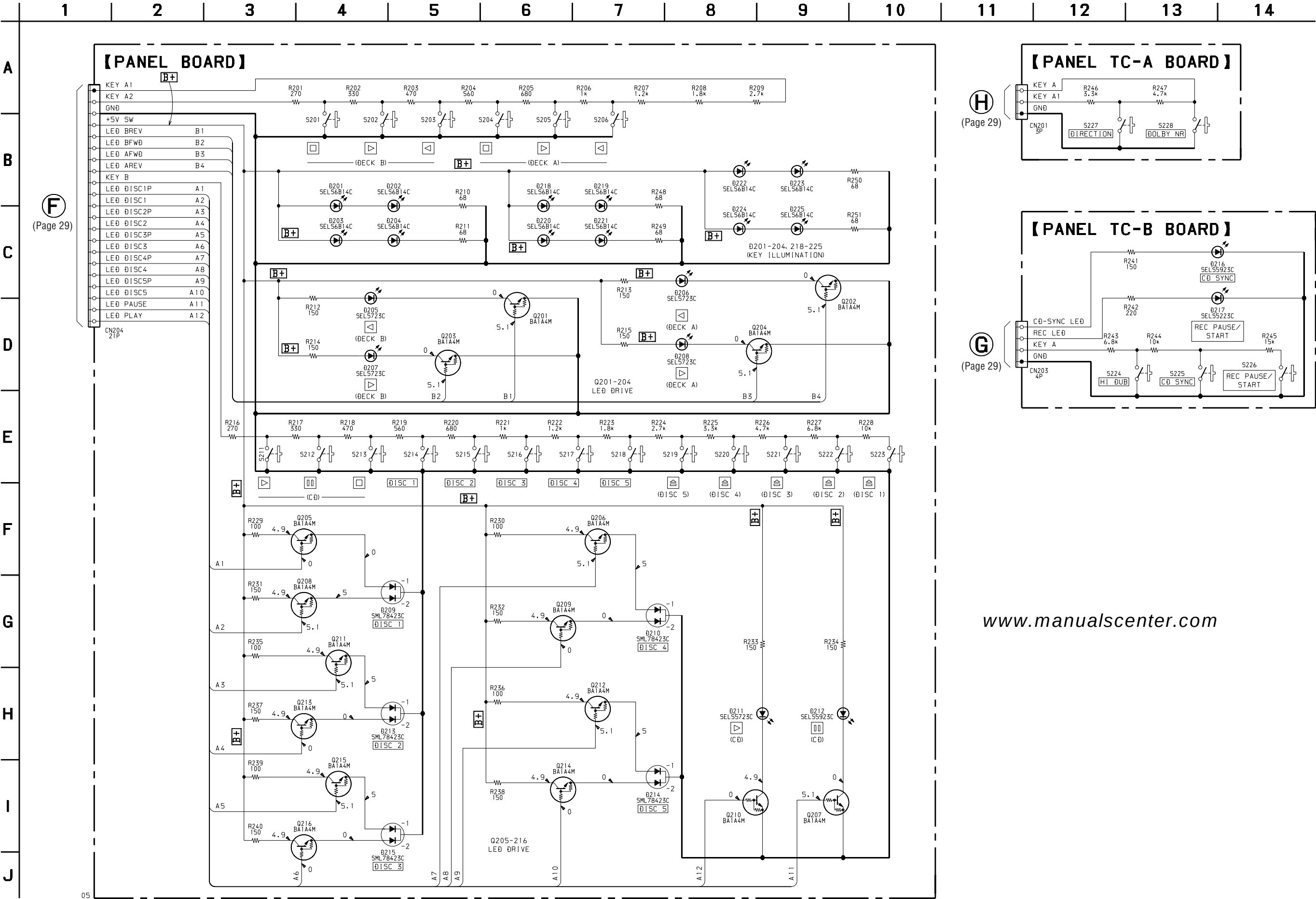
• Semiconduc
– PANEL Board –

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

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7-14. SCHEMATIC DIAGRAM – PANEL Section –



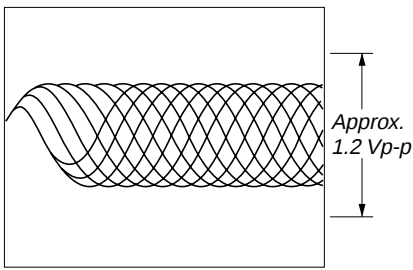
www.manualscenter.com

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

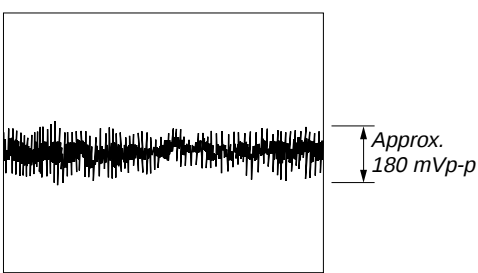
• Waveforms

– BD Board –

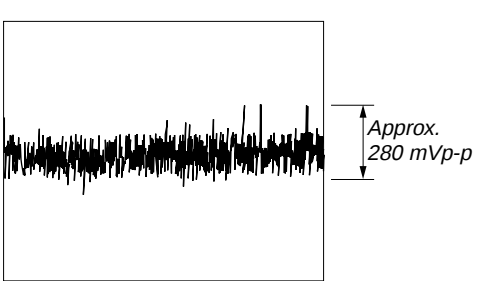
❶ IC103 ⑲ (RF O) (CD Play Mode)



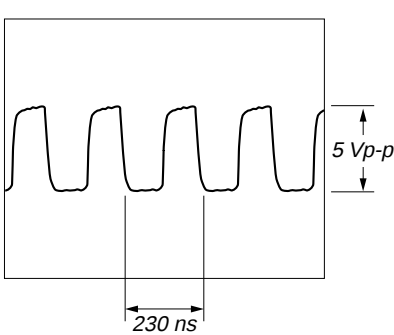
❷ IC101 ④① (TE) (CD Play Mode)



❸ IC101 ③⑨ (FE) (CD Play Mode)

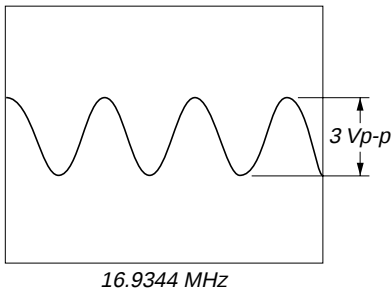


❹ IC101 ⑰ (XPCK)



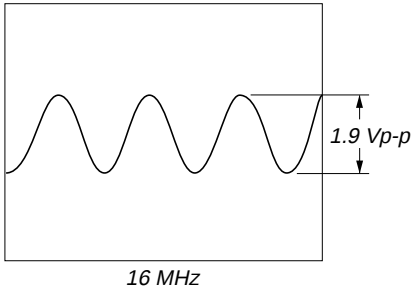
– MAIN Board –

❺ IC101 ⑥⑥ (XTAI)



– MAIN Board –

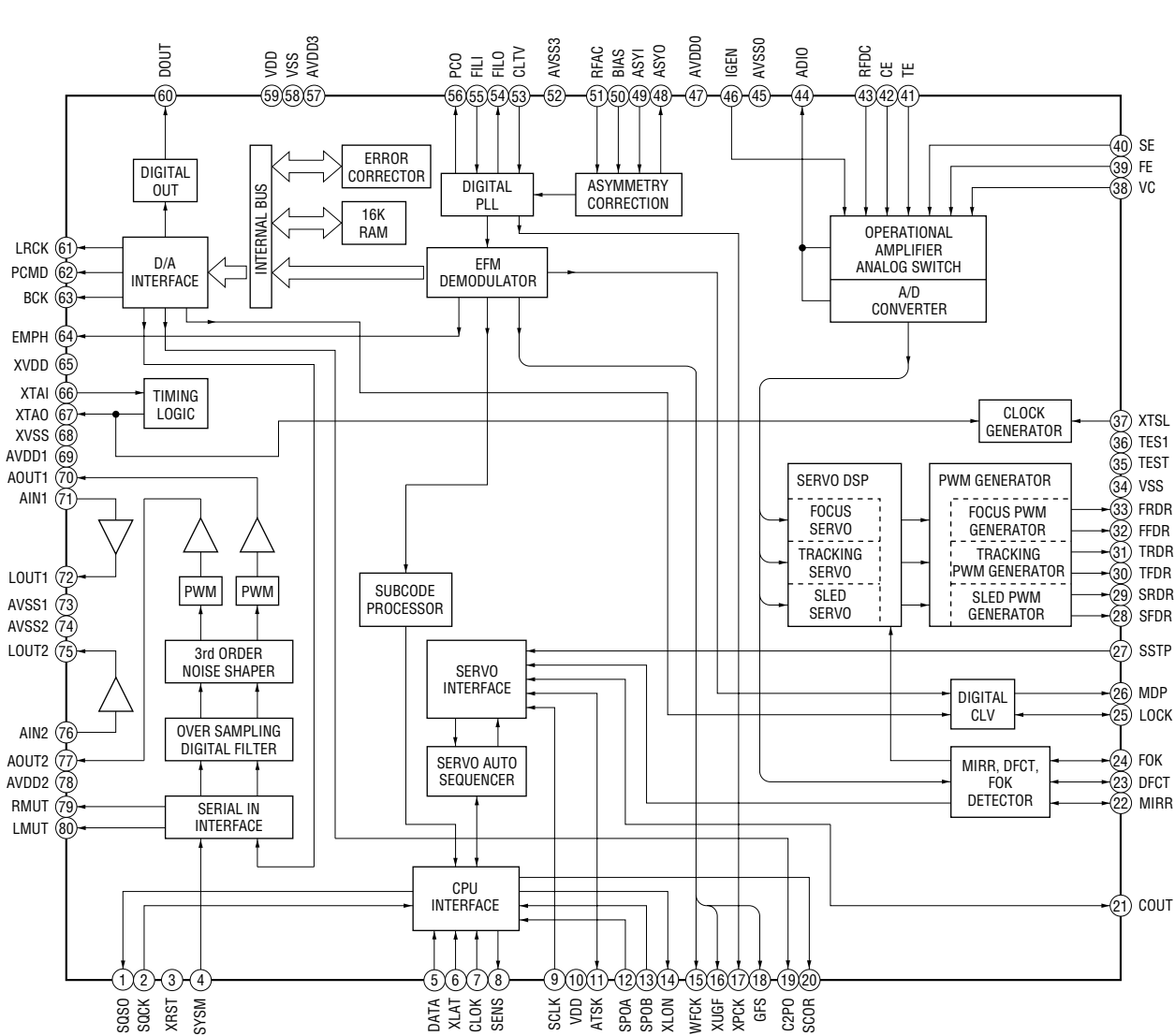
❶ IC101 ⑬ (XOUT)



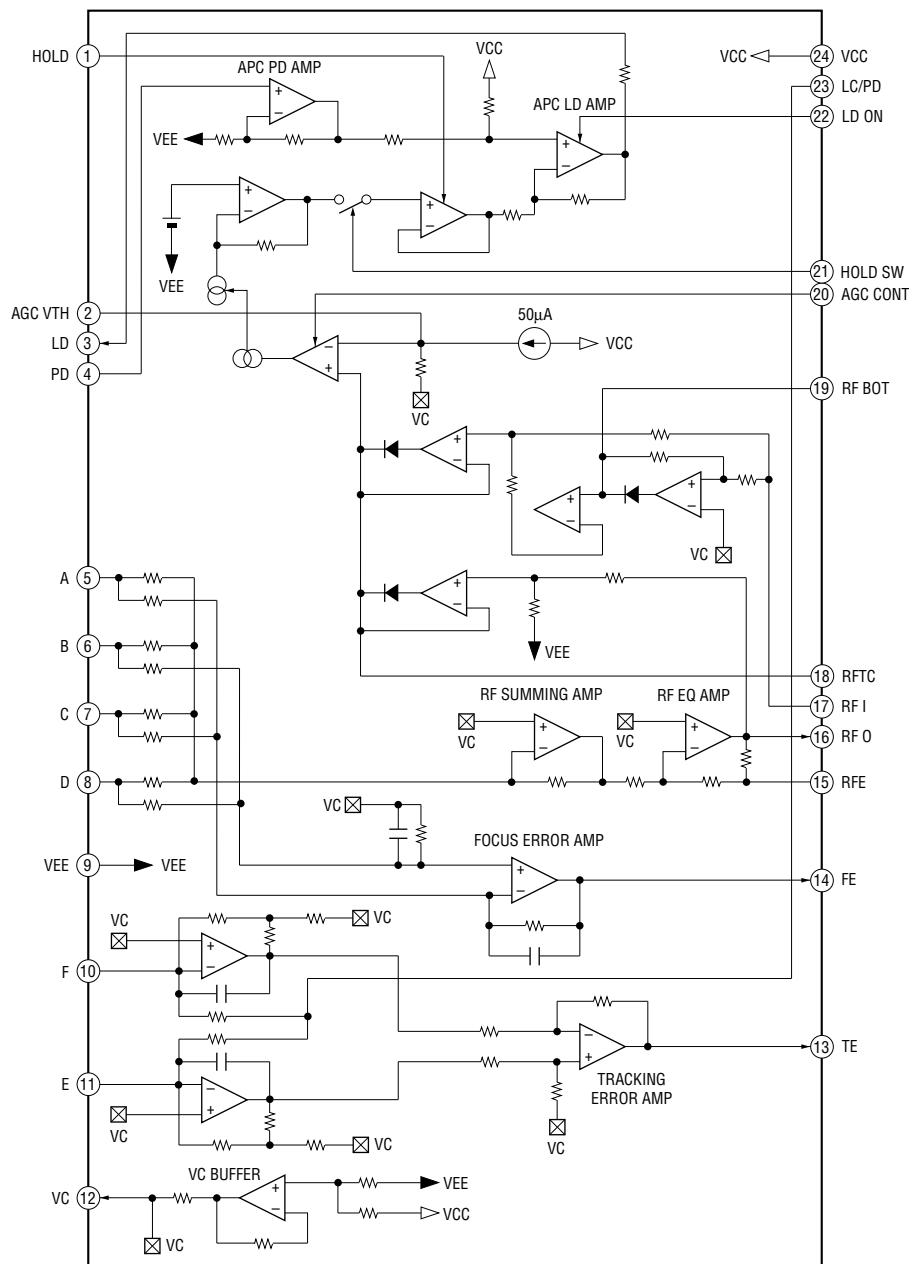
• IC Block Diagrams

– BD Board –

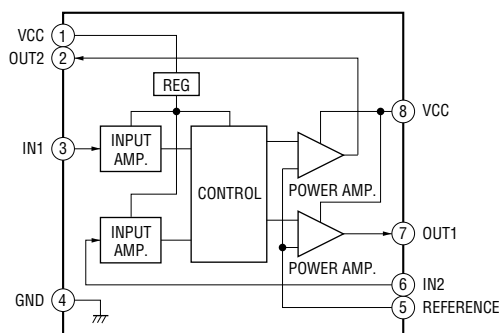
IC101 CXD2587Q



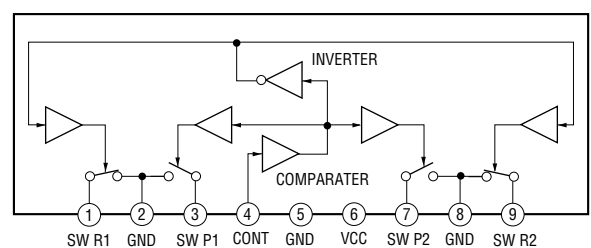
IC103 CXA2568M-T6



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



– AUDIO Board –
IC602 μ PC1330HA



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.

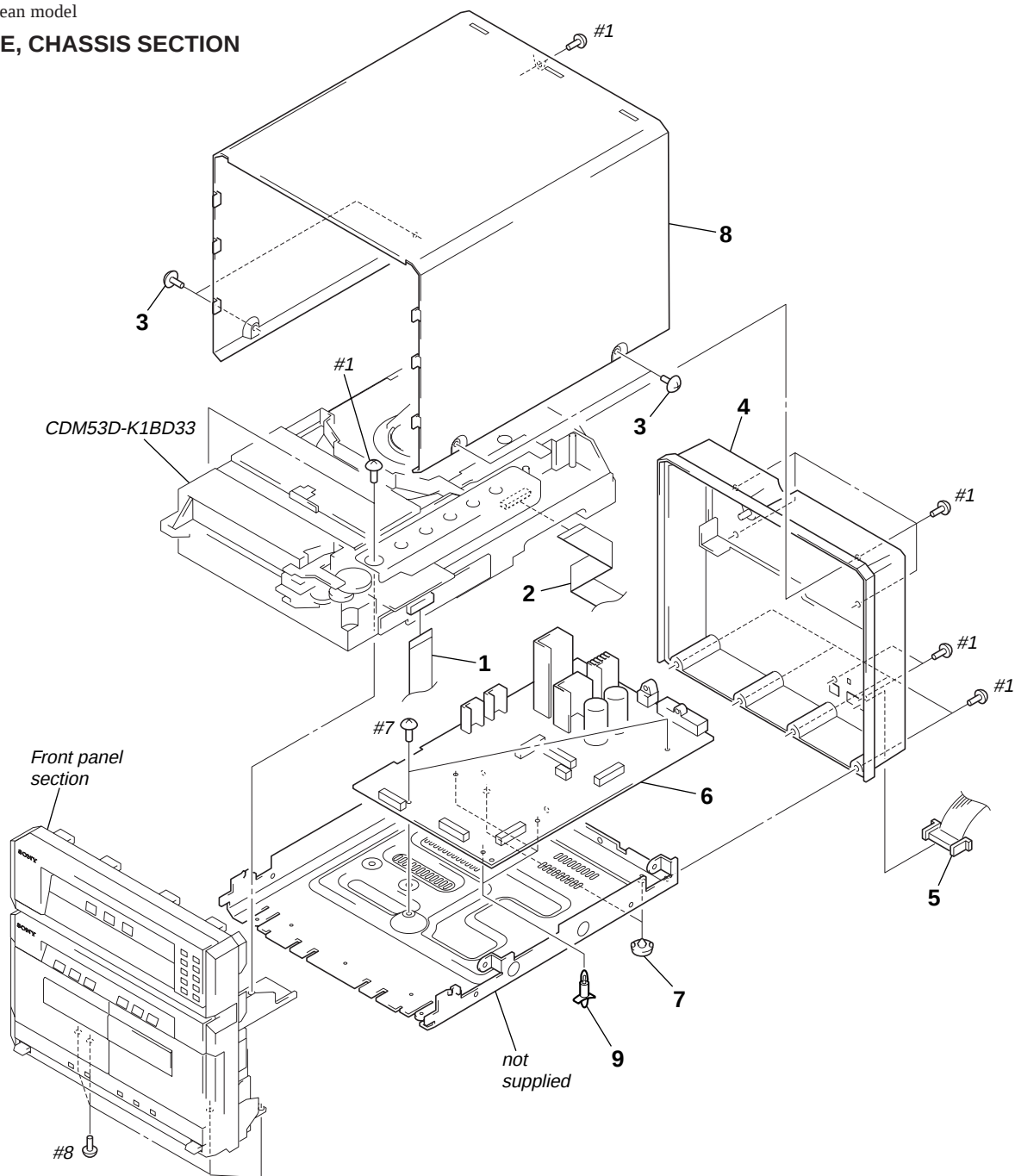
- Hardware (# mark) list is given in the last of the electrical parts list.

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.

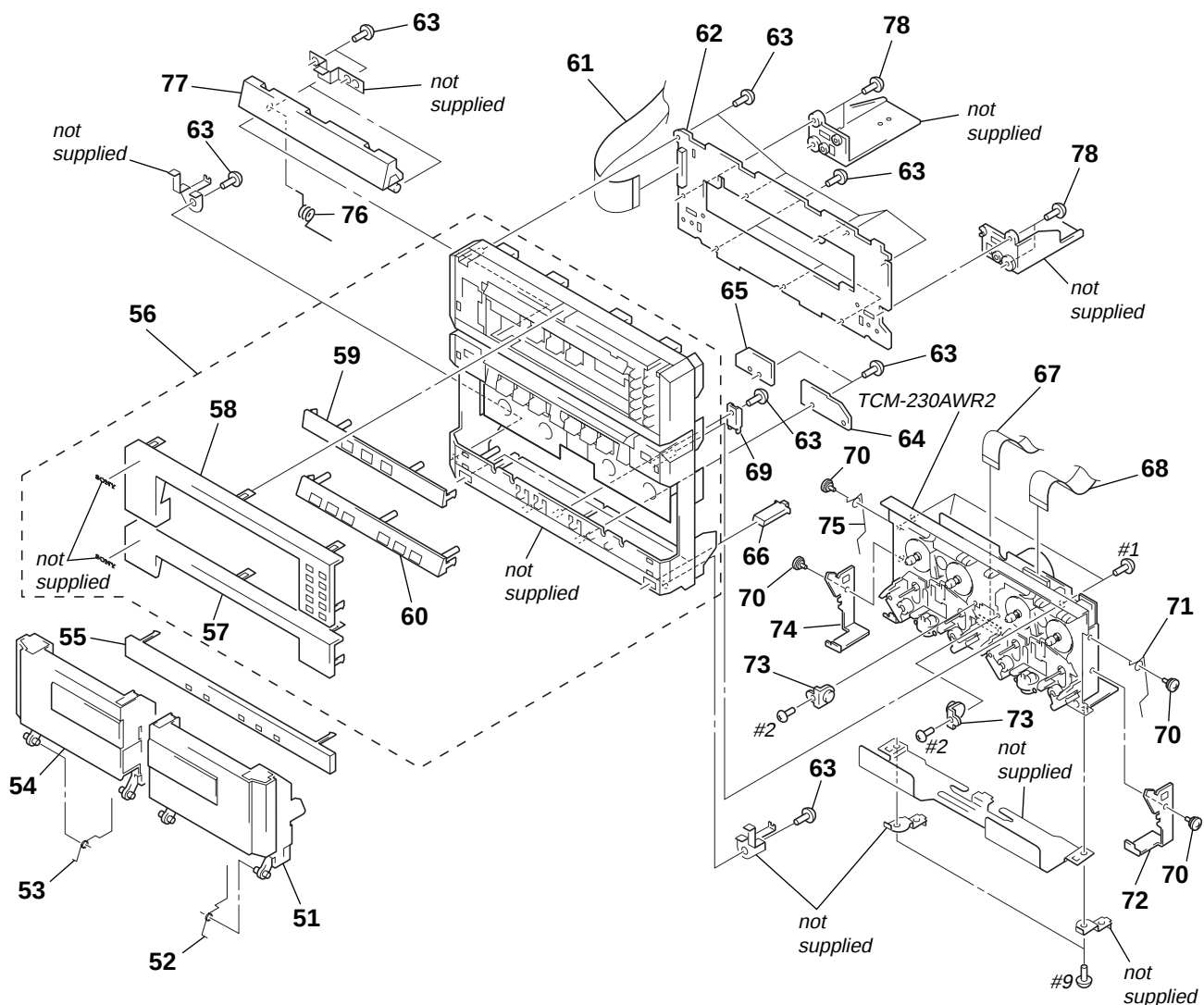
Ne les remplacer que par une pièce portant le numéro spécifié.

(1) CASE, CHASSIS SECTION



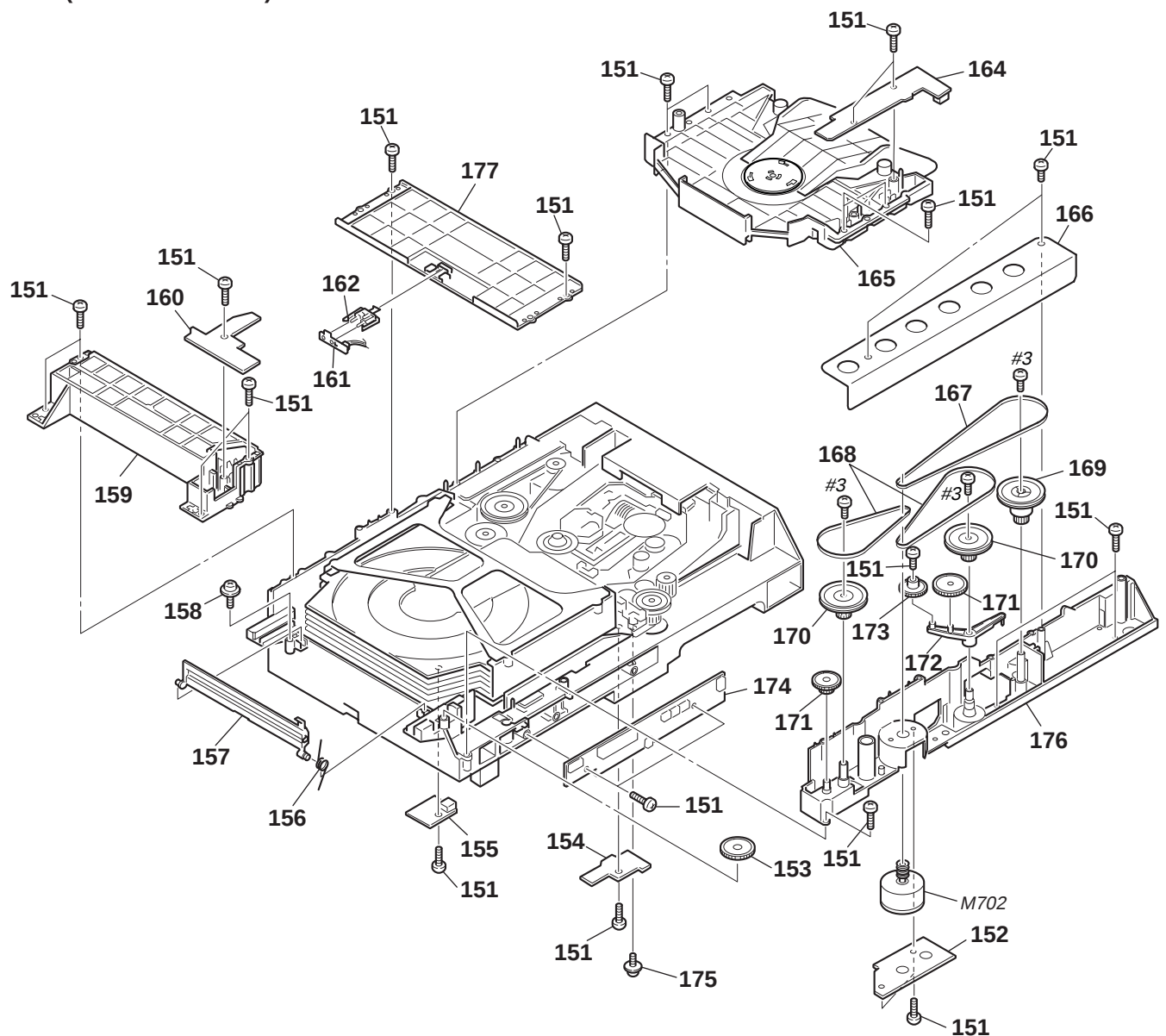
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	1-773-040-11	WIRE (FLAT TYPE) (17 CORE) (12cm)		6	A-4426-608-A	MAIN BOARD, COMPLETE (US, CND, AEP, UK)	
2	1-791-433-11	WIRE (FLAT TYPE) (19 CORE)		6	A-4426-609-A	MAIN BOARD, COMPLETE	
3	3-363-099-11	SCREW (CASE 3 TP2)				(MY, 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



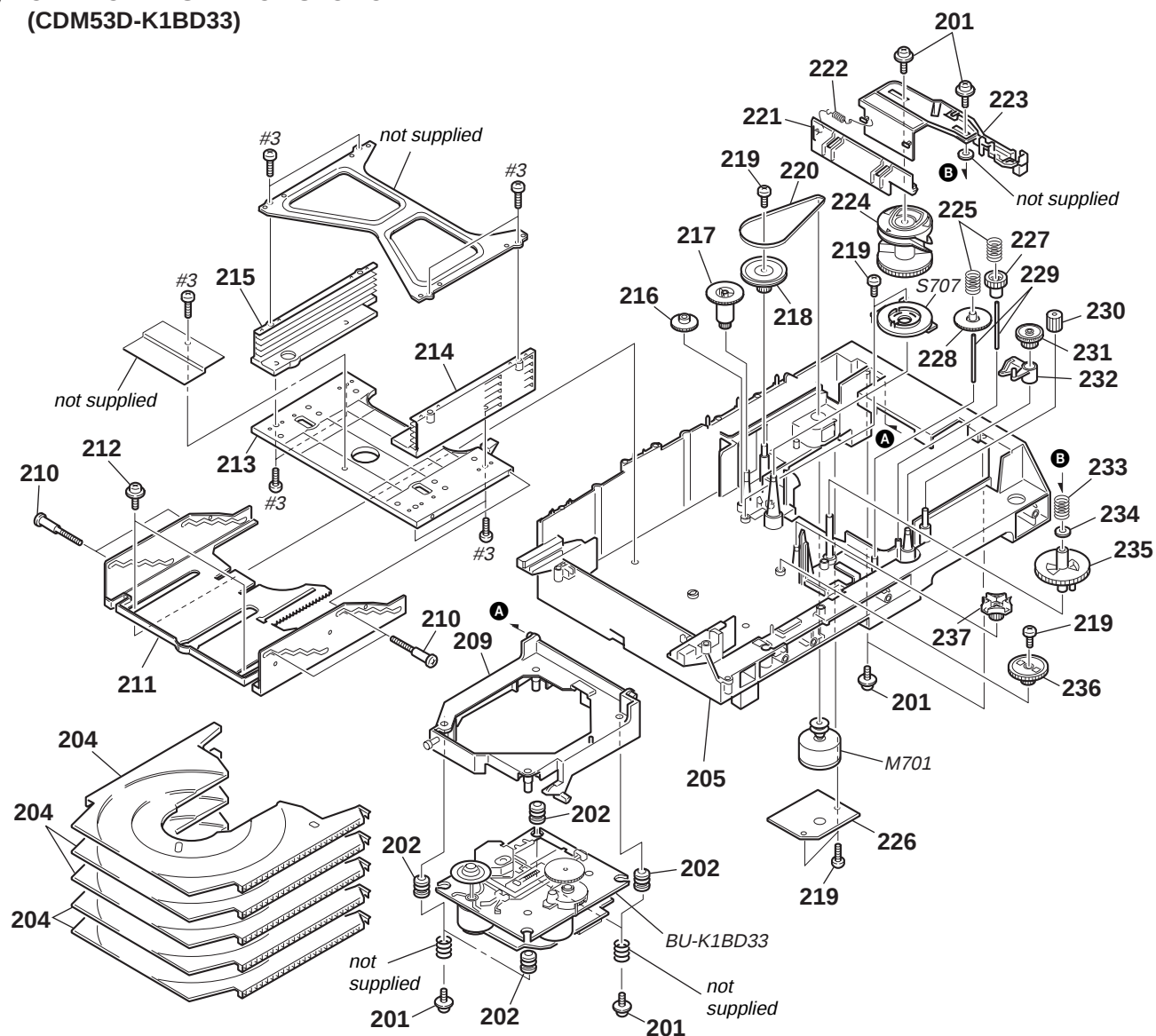
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-4951-821-1	HOLDER (B) ASSY, CASSETTE		65	1-674-773-11	PANEL TC-B BOARD	
52	4-221-448-01	SPRING (HOLDER B)		66	4-221-443-01	BUTTON, EJECT	
53	4-221-447-01	SPRING (HOLDER A)		67	1-773-004-11	WIRE (FLAT TYPE) (15 CORE)	
54	X-4951-820-1	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)



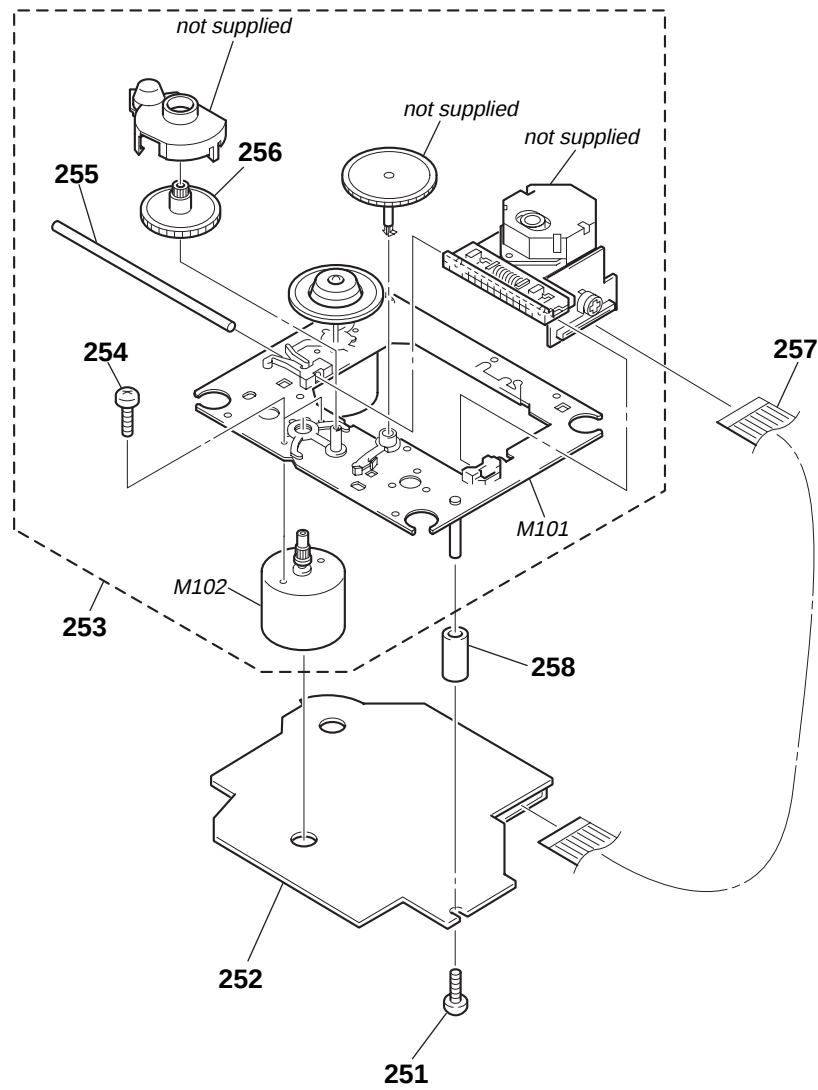
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-218-253-01	SCREW (M2.6), +BVTP		166	4-214-129-01	COVER	
* 152	1-671-508-21	LOAD MOTOR BOARD		167	4-211-235-01	BELT (COMMUNICATION)	
153	4-220-261-01	GEAR (EJECT)		168	4-211-236-01	BELT (LOADING)	
* 154	1-671-502-21	INT/COUNT 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)					

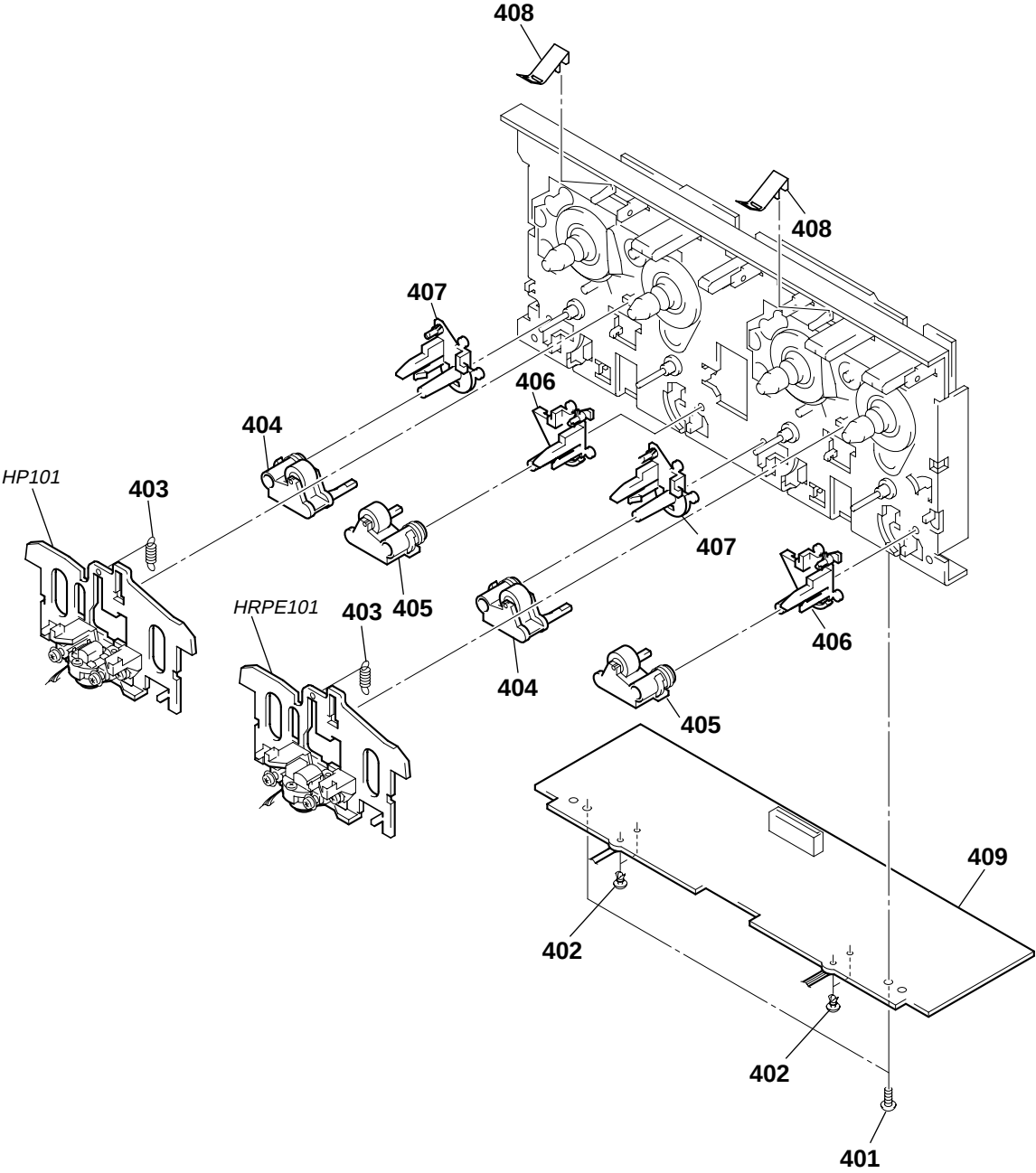
(5) CD BASE UNIT SECTION
(BU-K1BD33)



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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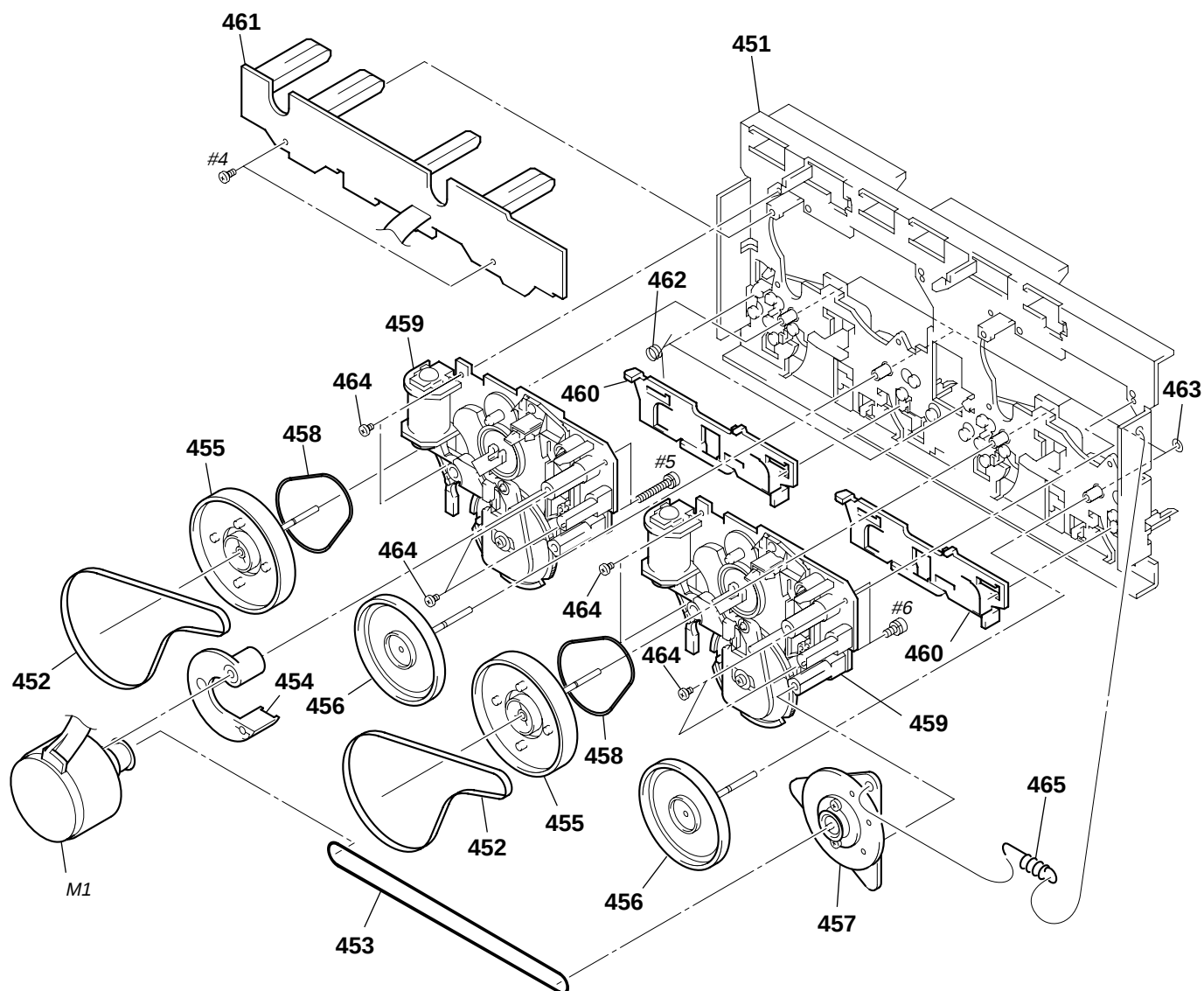
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	4-996-243-01	SCREW (M2), +PSW		256	2-627-003-02	GEAR (B) (RP)	
252	A-4724-330-A	BD BOARD, COMPLETE		257	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
$\triangle$ 253	8-820-026-03	OPTICAL PICK-UP KSM-213BFN/C2NP		258	4-216-878-11	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	
				L601	1-414-193-41	INDUCTOR 220uH	
C311	1-162-289-31	CERAMIC 390PF 10% 50V		L602	1-414-193-41	INDUCTOR 220uH	
C313	1-162-282-31	CERAMIC 100PF 10% 50V				< TRANSISTOR >	
C314	1-130-487-00	MYLAR 0.022uF 5% 50V		Q621	8-729-142-46	TRANSISTOR 2SC2001TP-LK	
C315	1-126-233-11	ELECT 22uF 20% 50V		Q622	8-729-142-46	TRANSISTOR 2SC2001TP-LK	
C331	1-137-427-11	FILM 120PF 5% 50V		Q623	8-729-801-93	TRANSISTOR 2SD1387-34-TP	
						< RESISTOR >	
C332	1-162-288-31	CERAMIC 330PF 10% 50V		R301	1-247-881-00	CARBON 120K 5% 1/4W	
C333	1-162-209-31	CERAMIC 27PF 5% 50V		R302	1-249-409-11	CARBON 220 5% 1/4W	
C401	1-162-289-31	CERAMIC 390PF 10% 50V		R303	1-249-433-11	CARBON 22K 5% 1/4W	
C402	1-126-968-11	ELECT 100uF 20% 6.3V		R304	1-247-889-00	CARBON 270K 5% 1/4W	
C403	1-162-282-31	CERAMIC 100PF 10% 50V		R305	1-247-858-11	CARBON 13K 5% 1/4W	
C404	1-130-483-00	MYLAR 0.01uF 5% 50V		R311	1-247-881-00	CARBON 120K 5% 1/4W	
C405	1-107-715-11	ELECT 22uF 20% 16V		R312	1-247-807-31	CARBON 100 5% 1/4W	
C411	1-162-289-31	CERAMIC 390PF 10% 50V		R314	1-247-882-11	CARBON 130K 5% 1/4W	
C413	1-162-282-31	CERAMIC 100PF 10% 50V		R315	1-247-850-11	CARBON 6.2K 5% 1/4W	
C414	1-130-487-00	MYLAR 0.022uF 5% 50V		R331	1-249-430-11	CARBON 12K 5% 1/4W	
C415	1-126-233-11	ELECT 22uF 20% 50V		R401	1-247-881-00	CARBON 120K 5% 1/4W	
C431	1-137-427-11	FILM 120PF 5% 50V		R402	1-249-409-11	CARBON 220 5% 1/4W	
C432	1-162-288-31	CERAMIC 330PF 10% 50V		R403	1-249-433-11	CARBON 22K 5% 1/4W	
C433	1-162-209-31	CERAMIC 27PF 5% 50V		R404	1-247-889-00	CARBON 270K 5% 1/4W	
C601	1-104-396-11	ELECT 10uF 20% 16V		R405	1-247-858-11	CARBON 13K 5% 1/4W	
C602	1-104-396-11	ELECT 10uF 20% 16V		R411	1-247-881-00	CARBON 120K 5% 1/4W	
C611	1-104-396-11	ELECT 10uF 20% 16V		R412	1-247-807-31	CARBON 100 5% 1/4W	
C612	1-104-396-11	ELECT 10uF 20% 16V		R414	1-247-882-11	CARBON 130K 5% 1/4W	
C621	1-137-150-11	FILM 0.01uF 5% 100V		R415	1-247-850-11	CARBON 6.2K 5% 1/4W	
C622	1-126-961-11	ELECT 2.2uF 20% 50V		R431	1-249-430-11	CARBON 12K 5% 1/4W	
C623	1-136-155-00	FILM 0.015uF 5% 50V		R601	1-249-409-11	CARBON 220 5% 1/4W	
C624	1-130-481-00	MYLAR 0.0068uF 5% 50V		R602	1-249-409-11	CARBON 220 5% 1/4W	
C625	1-130-481-00	MYLAR 0.0068uF 5% 50V		R608	1-249-409-11	CARBON 220 5% 1/4W	
C627	1-124-903-11	ELECT 1uF 20% 50V		R609	1-249-433-11	CARBON 22K 5% 1/4W	
C628	1-136-153-00	FILM 0.01uF 5% 50V		R611	1-249-409-11	CARBON 220 5% 1/4W	
C642	1-104-664-11	ELECT 47uF 20% 16V					
		< CONNECTOR >					
CN601	1-563-834-21	SOCKET, CONNECTOR 15P					

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
△ R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W F
R623	1-249-432-11	CARBON	18K	5%	1/4W
R624	1-249-432-11	CARBON	18K	5%	1/4W
R625	1-249-429-11	CARBON	10K	5%	1/4W
< VARIABLE RESISTOR >					
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV341	1-241-768-11	RES, ADJ, CARBON 220K			
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV441	1-241-768-11	RES, ADJ, CARBON 220K			
< TRANSFORMER >					
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION			

A-4724-330-A	BD BOARD, COMPLETE				

< CAPACITOR >					
C101	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C102	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C103	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C104	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C108	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C109	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C110	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C111	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C112	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C113	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C114	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-126-607-11	ELECT CHIP	47uF	20%	4V
C117	1-126-209-11	ELECT CHIP	100uF	20%	4V
C118	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C119	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C121	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C122	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C123	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C124	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C125	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C126	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C127	1-128-065-11	ELECT CHIP	68uF	20%	10V
C128	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C129	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C130	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C131	1-124-779-00	ELECT CHIP	10uF	20%	16V
C133	1-164-346-11	CERAMIC CHIP	1uF		16V
C140	1-164-346-11	CERAMIC CHIP	1uF		16V
C141	1-164-346-11	CERAMIC CHIP	1uF		16V
C143	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C151	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C153	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C154	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V
C156	1-163-235-11	CERAMIC CHIP	22PF	5%	50V

Ref. No.	Part No.	Description	Remark
C157	1-163-009-11	CERAMIC CHIP 0.001uF 10%	50V
C159	1-163-019-00	CERAMIC CHIP 0.0068uF 10%	50V
C161	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C162	1-126-205-11	ELECT CHIP 47uF 20%	6.3V
C163	1-126-206-11	ELECT CHIP 100uF 20%	6.3V
C165	1-163-038-00	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
C171	1-163-009-11	CERAMIC CHIP 0.001uF 10%	50V
C172	1-163-123-00	CERAMIC CHIP 180PF 5%	50V
C181	1-163-009-11	CERAMIC CHIP 0.001uF 10%	50V
C182	1-163-123-00	CERAMIC CHIP 180PF 5%	50V
< CONNECTOR >			
CN101	1-778-874-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P	
CN102	1-777-937-11	CONNECTOR, FFC/FPC 16P	
< FERRITE BEAD/SHORT >			
FB101	1-500-445-21	FERRITE 0uH	
FB102	1-216-295-00	SHORT 0	
FB103	1-500-445-21	FERRITE 0uH	
FB104	1-216-295-00	SHORT 0	
< IC >			
IC101	8-752-386-85	IC CXD2587Q	
IC102	8-759-549-28	IC BA5974FP-E2	
IC103	8-752-085-51	IC CXA2568M-T6	
< TRANSISTOR >			
Q101	8-729-010-08	TRANSISTOR MSB710-RT1	
< RESISTOR >			
R101	1-216-077-91	RES, CHIP 15K 5%	1/10W
R102	1-216-097-00	RES, CHIP 100K 5%	1/10W
R103	1-216-077-91	RES, CHIP 15K 5%	1/10W
R104	1-216-085-00	METAL CHIP 33K 5%	1/10W
R105	1-216-073-00	METAL CHIP 10K 5%	1/10W
R106	1-216-049-11	RES, CHIP 1K 5%	1/10W
R107	1-216-073-00	METAL CHIP 10K 5%	1/10W
R108	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
R109	1-216-121-00	RES, CHIP 1M 5%	1/10W
R110	1-216-025-00	RES, CHIP 100 5%	1/10W
R111	1-216-121-00	RES, CHIP 1M 5%	1/10W
R113	1-216-121-00	RES, CHIP 1M 5%	1/10W
R114	1-216-073-00	METAL CHIP 10K 5%	1/10W
R116	1-216-001-00	METAL CHIP 10 5%	1/10W
R117	1-216-049-11	RES, CHIP 1K 5%	1/10W
R119	1-216-041-00	METAL CHIP 470 5%	1/10W
R123	1-216-073-00	METAL CHIP 10K 5%	1/10W
R124	1-216-097-00	RES, CHIP 100K 5%	1/10W
R131	1-216-037-00	METAL CHIP 330 5%	1/10W
R135	1-216-295-00	SHORT 0	
R136	1-216-295-00	SHORT 0	
R137	1-216-295-00	SHORT 0	
R138	1-216-295-00	SHORT 0	
R143	1-216-103-00	METAL CHIP 180K 5%	1/10W
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.

BD		CLAMP MOTOR			CONNECTOR		IN SW		INT/COUNT SW			LEAF SW	
Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
< RESISTOR >													
R147	1-216-069-00	METAL CHIP	6.8K	5%	1/10W								
R148	1-216-001-00	METAL CHIP	10	5%	1/10W	R707	1-249-424-11	CARBON	3.9K	5%	1/4W		
R149	1-216-001-00	METAL CHIP	10	5%	1/10W	R708	1-249-417-11	CARBON	1K	5%	1/4W		
R158	1-216-111-00	METAL CHIP	390K	5%	1/10W	R709	1-249-429-11	CARBON	10K	5%	1/4W		
R159	1-216-101-00	METAL CHIP	150K	5%	1/10W	*****							
< NETWORK RESISTOR >													
R161	1-216-308-00	METAL CHIP	4.7	5%	1/10W	*	1-671-505-21	IN SW BOARD	*****				
R162	1-216-101-00	METAL CHIP	150K	5%	1/10W	< CONNECTOR >							
R171	1-216-078-00	RES, CHIP	16K	5%	1/10W	* CN710	1-568-941-11	PIN, CONNECTOR 3P					
R172	1-216-073-00	METAL CHIP	10K	5%	1/10W	< SWITCH >							
R173	1-216-077-91	RES, CHIP	15K	5%	1/10W	< SWITCH >							
R181	1-216-078-00	RES, CHIP	16K	5%	1/10W	S703	1-771-218-11	SWITCH, MICRO (MID IN)					
R182	1-216-073-00	METAL CHIP	10K	5%	1/10W	S704	1-771-218-11	SWITCH, MICRO (IN)	*****				
R183	1-216-077-91	RES, CHIP	15K	5%	1/10W	< SWITCH >							
< SWITCH >													
RN101	1-233-412-11	RES, CHIP NETWORK 1.0K (3216)											
RN102	1-233-576-11	RES, CHIP NETWORK 100											
< VIBRATOR >													
S101	1-572-085-11	SWITCH, LEAF (LIMIT)											
< VIBRATOR >													
X101	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)	*****										
*	1-671-507-21	CLAMP MOTOR BOARD	*****										
< CAPACITOR >													
C701	1-162-306-11	CERAMIC	0.01uF	30%	16V	< CONNECTOR >							
C702	1-126-964-11	ELECT	10uF	20%	50V	< DIODE >							
C711	1-162-306-11	CERAMIC	0.01uF	30%	16V	CN1001	1-568-860-21	SOCKET, CONNECTOR 17P	< DIODE >				
< CONNECTOR >													
CN712	1-506-469-11	PIN, CONNECTOR 4P											
< DIODE >													
D701	8-719-109-69	DIODE MTZJ-T-77-3.6B											
< IC >													
IC701	8-759-633-65	IC M54641L											
< RESISTOR >													
R701	1-249-411-11	CARBON	330	5%	1/4W	< TRANSISTOR >							
R702	1-249-401-11	CARBON	47	5%	1/4W	< TRANSISTOR >							

*	1-671-506-21	CONNECTOR BOARD	*****										
< CONNECTOR >													
CN701	1-568-860-11	SOCKET, CONNECTOR 17P											
< TRANSISTOR >													
Q701	8-729-029-66	TRANSISTOR RT1N141S-TP											
< RESISTOR >													
R907	1-247-879-11	CARBON	100K	5%	1/4W	R907	1-247-879-11	CARBON	100K	5%	1/4W		
R1001	1-249-409-11	CARBON	220	5%	1/4W	R1001	1-249-409-11	CARBON	220	5%	1/4W		
R1002	1-249-409-11	CARBON	220	5%	1/4W	R1002	1-249-409-11	CARBON	220	5%	1/4W		
R1003	1-249-414-11	CARBON	560	5%	1/4W	R1003	1-249-414-11	CARBON	560	5%	1/4W		
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W	R1004	1-247-834-11	CARBON	1.3K	5%	1/4W		
< CAPACITOR >													
C1001	1-107-716-11	ELECT	33uF	20%	10V	< CAPACITOR >							
< CONNECTOR >													
CN1001	1-568-860-21	SOCKET, CONNECTOR 17P											
< DIODE >													
D1001	8-719-911-19	DIODE 1SS133T-72											
D1002	8-719-911-19	DIODE 1SS133T-72											
< CABLE HOLDER >													
* DM1001	1-784-581-11	HOLDER, CABLE (2.5MM PITCH) 4P											
< PHOTO INTERRUPTER >													
IC1001	8-749-014-38	PHOTO INTERRUPTER SG-264											
IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264											
< TRANSISTOR >													
Q1001	8-729-029-56	TRANSISTOR DTA144ESA-TP											
< RESISTOR >													
R907	1-247-879-11	CARBON	100K	5%	1/4W	R907	1-247-879-11	CARBON	100K	5%	1/4W		
R1001	1-249-409-11	CARBON	220	5%	1/4W	R1001	1-249-409-11	CARBON	220	5%	1/4W		
R1002	1-249-409-11	CARBON	220	5%	1/4W	R1002	1-249-409-11	CARBON	220	5%	1/4W		
R1003	1-249-414-11	CARBON	560	5%	1/4W	R1003	1-249-414-11	CARBON	560	5%	1/4W		
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W	R1004	1-247-834-11	CARBON	1.3K	5%	1/4W		
< CAPACITOR >													
C1001	1-107-716-11	ELECT	33uF	20%	10V	< CAPACITOR >							
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CN1001	1-568-860-21	SOCKET, CONNECTOR 17P											
< DIODE >													
D1001	8-719-911-19	DIODE 1SS133T-72											
D1002	8-719-911-19	DIODE 1SS133T-72											
< CABLE HOLDER >													
* DM1001	1-784-581-11	HOLDER, CABLE (2.5MM PITCH) 4P											
< PHOTO INTERRUPTER >													
IC1001	8-749-014-38	PHOTO INTERRUPTER SG-264											
IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264											
< TRANSISTOR >													
Q1001	8-729-029-56	TRANSISTOR DTA144ESA-TP											
< RESISTOR >													
R907	1-247-879-11	CARBON	100K	5%	1/4W	R907	1-247-879-11	CARBON	100K	5%	1/4W		
R1001	1-249-409-11	CARBON	220	5%	1/4W	R1001	1-249-409-11	CARBON	220	5%	1/4W		
R1002	1-249-409-11	CARBON	220	5%	1/4W	R1002	1-249-409-11	CARBON	220	5%	1/4W		
R1003	1-249-414-11	CARBON	560	5%	1/4W	R1003	1-249-414-11	CARBON	560	5%	1/4W		
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W	R1004	1-247-834-11	CARBON	1.3K	5%	1/4W		
< CAPACITOR >													
C1001	1-107-716-11	ELECT	33uF	20%	10V	< CAPACITOR >							
< CONNECTOR >													
CN1001	1-568-860-21	SOCKET, CONNECTOR 17P											
< DIODE >													
D1001	8-719-911-19	DIODE 1SS133T-72											
D1002	8-719-911-19	DIODE 1SS133T-72											
< CABLE HOLDER >													
* DM1001	1-784-581-11	HOLDER, CABLE (2.5MM PITCH) 4P											
< PHOTO INTERRUPTER >													
IC1001	8-749-014-38	PHOTO INTERRUPTER SG-264											
IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264											
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Q1001	8-729-029-56	TRANSISTOR DTA144ESA-TP											
< RESISTOR >													
R907	1-247-879-11	CARBON	100K	5%	1/4W	R907	1-247-879-11	CARBON	100K	5%	1/4W		
R1001	1-249-409-11	CARBON	220	5%	1/4W	R1001	1-249-409-11	CARBON	220	5%	1/4W		
R1002	1-249-409-11	CARBON	220	5%	1/4W	R1002	1-249-409-11	CARBON	220	5%	1/4W		
R1003	1-249-414-11	CARBON	560	5%	1/4W	R1003	1-249-414-11	CARBON	560	5%	1/4W		
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W	R1004	1-247-834-11	CARBON	1.3K	5%	1/4W		
< CAPACITOR >													
C1001	1-107-716-11	ELECT	33uF	20%	10V	< CAPACITOR >							
< CONNECTOR >													
CN1001	1-568-860-21	SOCKET, CONNECTOR 17P											
< DIODE >													
D1001	8-719-911-19	DIODE 1SS133T-72											
D1002	8-719-911-19	DIODE 1SS133T-72											
< CABLE HOLDER >													
* DM1001	1-784-581-11	HOLDER, CABLE (2.5MM PITCH) 4P											
< PHOTO INTERRUPTER >													
IC1001	8-749-014-38	PHOTO INTERRUPTER SG-264											
IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264											
< TRANSISTOR >													
Q1001	8-729-029-56	TRANSISTOR DTA144ESA-TP											
< RESISTOR >													
R907	1-247-879-11	CARBON	100K	5%	1/4W	R907	1-247-879-11	CARBON	100K	5%	1/4W		
R1001	1-249-409-11	CARBON	220	5%	1/4W	R1001	1-249-409-11	CARBON	220	5%	1/4W		
R1002	1-249-409-11	CARBON	220	5%	1/4W	R1002	1-249-409-11	CARBON	220	5%	1/4W		
R1003	1-249-414-11	CARBON	560	5%	1/4W	R1003	1-249-414-11	CARBON	560	5%	1/4W		
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W	R1004	1-247-834-11	CARBON	1.3K	5%	1/4W		
< CAPACITOR >													
C1001	1-107-716-11	ELECT	33uF	20%	10V	< CAPACITOR >							
< CONNECTOR >													
CN1001	1-568-860-21	SOCKET, CONNECTOR 17P											
< DIODE >													
D1001	8-719-911-19	DIODE 1SS133T-72											
D1002	8-719-911-19	DIODE 1SS133T-72											
< CABLE HOLDER >													
* DM1001	1-784-581-11	HOLDER, CABLE (2.5MM PITCH) 4P											
< PHOTO INTERRUPTER >													
IC1001	8-749-014-38	PHOTO INTERRUPTER SG-264											
IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264											
< TRANSISTOR >													
Q1001	8-729-029-56	TRANSISTOR DTA144ESA-TP											
< RESISTOR >													
R907	1-247-879-11	CARBON	100K	5%	1/4W	R907	1-247-879-11	CARBON	100K	5%	1/4W		
R1001	1-249-409-11	CARBON	220	5%	1/4W	R1001	1-249-409-11	CARBON	220	5%	1/4W		
R1002	1-249-409-11	CARBON	220	5%	1/4W	R1002	1-249-409-11	CARBON	220	5%	1/4W		
R1003	1-249-414-11	CARBON	560	5%	1/4W	R1003	1-249-414-11	CARBON	560	5%	1/4W		
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W	R1004	1-247-834-11	CARBON	1.3K	5%	1/4W		
< CAPACITOR >													
C1001	1-107-716-11	ELECT	33uF	20%	10V	< CAPACITOR >							
< CONNECTOR >													
CN1001	1-568-860-21	SOCKET, CONNECTOR 17P											
< DIODE >													
D1001	8-719-911-19	DIODE 1SS133T-72											
D1002	8-719-911-19	DIODE 1SS133T-72											
< CABLE HOLDER >													
* DM1001	1-784-581-11	HOLDER, CABLE (2.5MM PITCH) 4P											
< PHOTO INTERRUPTER >													
IC1001	8-749-014-38	PHOTO INTERRUPTER SG-264											
IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264											
< TRANSISTOR >													
Q1001	8-729-029-56	TRANSISTOR DTA144ESA-TP											
< RESISTOR >													
R907	1-247-879-11	CARBON	100K	5%	1/4W	R907	1-247-879-11	CARBON	100K	5%	1/4W		
R1001	1-249-409-11	CARBON	220	5%	1/4W	R1001	1-249-409-11	CARBON	220	5%	1/4W		
R1002	1-249-409-11	CARBON	220	5%	1/4W	R1002	1-249-409-11	CARBON	220	5%	1/4W		
R1003	1-249-414-11	CARBON	560	5%	1/4W	R1003	1-249-414-11	CARBON	560	5%	1/4W		
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W	R1004	1-247-834-11	CARBON	1.3K	5%	1/4W		
< CAPACITOR >													
C1001	1-107-716-11	ELECT	33uF	20%	10V	< CAPACITOR >							
< CONNECTOR >													
CN1001	1-568-860-21	SOCKET, CONNECTOR 17P											
< DIODE >													
D1001	8-719-911-19	DIODE 1SS133T-72											
D1002	8-719-911-19	DIODE 1SS133T-72											
< CABLE HOLDER >													
* DM1001	1-784-581-11	HOLDER, CABLE (2.5MM PITCH) 4P											
< PHOTO INTERRUPTER >													
IC1001	8-749-014-38	PHOTO INTERRUPTER SG-264											
IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264											
< TRANSISTOR >													
Q1001	8-729-029-56	TRANSISTOR DTA144ESA-TP											
< RESISTOR >													
R907	1-247-879-11	CARBON	100K	5%	1/4W	R907	1-247-879-11	CARBON	100K	5%	1/4W		
R1001	1-249-409-11	CARBON	220	5%	1/4W	R1001	1-249-409-11	CARBON	220	5%	1/4W		
R1002	1-249-409-11	CARBON	220	5%	1/4W	R1002	1-249-409-11	CARBON	220	5%	1/4W		
R1003	1-249-414-11	CARBON	560	5%	1/4W	R1003	1-249-414-11	CARBON	560	5%	1/4W		
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W	R1004	1-247-834-11	CARBON	1.3K	5%	1/4W		
< CAPACITOR >													
C1001	1-107-716-11	ELECT	33uF	20%	10V	< CAPACITOR >							
< CONNECTOR >													
CN1001	1-568-860-21	SOCKET, CONNECTOR 17P											
< DIODE >													
D1001	8-719-911-19	DIODE 1SS133T-72											
D1002	8-719-911-19	DIODE 1SS133T-72											
< CABLE HOLDER >													
* DM1001	1-784-581-11	HOLDER, CABLE (2.5MM PITCH) 4P											
< PHOTO INTERRUPTER >													
IC1001	8-749-014-38	PHOTO INTERRUPTER SG-264											
IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264											
< TRANSISTOR >													
Q1001	8-729-029-56	TRANSISTOR DTA144ESA-TP											

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
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 >						< RESISTOR >					
D101	8-719-911-19	DIODE	1SS133T-72			R101	1-249-429-11	CARBON	10K	5%	1/4W
D102	8-719-911-19	DIODE	1SS133T-72			R102	1-249-409-11	CARBON	220	5%	1/4W
D103	8-719-911-19	DIODE	1SS133T-72			R103	1-249-417-11	CARBON	1K	5%	1/4W
D104	8-719-911-19	DIODE	1SS133T-72			R104	1-249-409-11	CARBON	220	5%	1/4W
D105	8-719-911-19	DIODE	1SS133T-72			R105	1-247-807-31	CARBON	100	5%	1/4W
D106	8-719-024-99	DIODE	11ES2-NTA2B (US, CND, AEP, UK)			R106	1-247-807-31	CARBON	100	5%	1/4W
D851	8-719-991-33	DIODE	1SS133T-77			R107	1-247-807-31	CARBON	100	5%	1/4W
D852	8-719-991-33	DIODE	1SS133T-77			R108	1-247-807-31	CARBON	100	5%	1/4W
D855	8-719-110-08	DIODE	MTZJ-T-72-8.2B			R109	1-247-807-31	CARBON	100	5%	1/4W
D858	8-719-110-08	DIODE	MTZJ-T-72-8.2B			R110	1-247-807-31	CARBON	100	5%	1/4W
D901	8-719-024-99	DIODE	11ES2-NTA2B			R111	1-247-807-31	CARBON	100	5%	1/4W
D902	8-719-024-99	DIODE	11ES2-NTA2B			R112	1-247-807-31	CARBON	100	5%	1/4W
D903	8-719-024-99	DIODE	11ES2-NTA2B			R113	1-247-807-31	CARBON	100	5%	1/4W
D904	8-719-024-99	DIODE	11ES2-NTA2B			R114	1-247-807-31	CARBON	100	5%	1/4W
						R115	1-247-807-31	CARBON	100	5%	1/4W
< COIL >						R116	1-247-807-31	CARBON	100	5%	1/4W
FB101	1-412-473-21	INDUCTOR	0uH			R117	1-247-807-31	CARBON	100	5%	1/4W
< IC >						R118	1-247-807-31	CARBON	100	5%	1/4W
IC101	8-759-597-55	IC	M30622MA-A13FP			R119	1-247-807-31	CARBON	100	5%	1/4W
IC102	8-759-165-82	IC	PST600E-T			R120	1-249-429-11	CARBON	10K	5%	1/4W
IC107	8-749-923-04	IC	TOTX178A (CD DIGITAL OUT OPTICAL)			R121	1-249-429-11	CARBON	10K	5%	1/4W
IC301	8-759-495-26	IC	HA12215F			R122	1-249-429-11	CARBON	10K	5%	1/4W
IC851	8-759-394-35	IC	BA12T			R123	1-249-429-11	CARBON	10K	5%	1/4W
IC852	8-759-231-53	IC	M5F7805L			R124	1-247-807-31	CARBON	100	5%	1/4W
IC853	8-759-604-86	IC	M5F7807L			R125	1-247-807-31	CARBON	100	5%	1/4W
IC855	8-759-231-58	IC	M5F7812L			R126	1-247-807-31	CARBON	100	5%	1/4W
< COIL >						R127	1-247-807-31	CARBON	100	5%	1/4W
L101	1-410-521-11	INDUCTOR	100uH			R128	1-247-807-31	CARBON	100	5%	1/4W
L103	1-410-521-11	INDUCTOR	100uH			R129	1-249-429-11	CARBON	10K	5%	1/4W
< TRANSISTOR >						R130	1-247-807-31	CARBON	100	5%	1/4W
Q101	8-729-900-80	TRANSISTOR	BA1A4M-TP			R131	1-247-807-31	CARBON	100	5%	1/4W
Q102	8-729-141-83	TRANSISTOR	2SB1375			R132	1-247-807-31	CARBON	100	5%	1/4W
Q103	8-729-900-80	TRANSISTOR	BA1A4M-TP			R133	1-247-807-31	CARBON	100	5%	1/4W
Q104	8-729-141-83	TRANSISTOR	2SB1375			R134	1-247-807-31	CARBON	100	5%	1/4W
Q105	8-729-040-20	TRANSISTOR	RT1P137L-TP			R135	1-249-429-11	CARBON	10K	5%	1/4W
Q106	8-729-900-80	TRANSISTOR	BA1A4M-TP			R136	1-249-413-11	CARBON	470	5%	1/4W
Q107	8-729-900-80	TRANSISTOR	BA1A4M-TP			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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Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

STR-NX1/NX3

SERVICE MANUAL

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



STR-NX1/NX3 are the
Tuner and Amplifier
Section in HMC-NX1/NX3AV.

Photo: STR-NX3 E model

SPECIFICATIONS

Amplifier section

For the U.S. model

AUDIO POWER SPECIFICATIONS: POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

with 6 ohm loads both channels driven, from
70-20,000 Hz; rates 100 watts per channel
minimum RMS power, with no more than
0.9% total harmonic distortion from 250
milliwatts to rated output.

Center Speaker: (NX3)

Continuous RMS power output (reference)
35 watts
(8 ohms at 1 kHz,
10% THD)

Rear Speaker: (NX3)

Continuous RMS power output (reference)
35 + 35 watts
(8 ohms at 1 kHz,
10% THD)

Canadian and US (NX1) model

Front Speaker:

Continuous RMS power output (reference)
130 + 130 watts
(6 ohms at 1 kHz,
10% THD)

Total harmonics distortion

Less than 0.07%
(6 ohms at 1 kHz, 40 W) (NX1)
(6 ohms at 1 kHz, 60 W) (NX3)

Center Speaker: (NX3)

Continuous RMS power output (reference)
35 watts
(8 ohms at 1 kHz,
10% THD)

Rear Speaker: (NX3)

Continuous RMS power output (reference)
35 + 35 watts
(8 ohms at 1 kHz,
10% THD)

European model

Front Speaker:

DIN power output (rated) 80 + 80 watts (NX1)
90 + 90 watts (NX3)
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)
100 + 100 watts (NX1)
110 + 110 watts (NX3)
(6 ohms at 1 kHz,
10% THD)

Music power output (reference)

160 + 160 watts (NX1)
180 + 180 watts (NX3)
(6 ohms at 1 kHz,
10% THD)

Center Speaker: (NX3)

DIN power output (rated) 25 watts
(8 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)
35 watts
(8 ohms at 1 kHz,
10% THD)

Music power output (reference)

70 watts
(8 ohms at 1 kHz,
10% THD)

Rear Speaker: (NX3)

DIN power output (rated) 25 + 25 watts
(8 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)
35 + 35 watts
(8 ohms at 1 kHz,
10% THD)

Music power output (reference)

70 + 70 watts
(8 ohms at 1 kHz,
10% THD)

Other models

The following measured at AC 120/220/240 V,
50/60 Hz

Front Speaker:

DIN power output (rated) 90 + 90 watts (NX1)
95 + 95 watts (NX3)
(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)
110 + 110 watts (NX1)
120 + 120 watts (NX3)
(6 ohms at 1 kHz,
10% THD)

Center Speaker: (NX3)

DIN power output (rated) 25 watts
(8 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)
35 watts
(8 ohms at 1 kHz,
10% THD)

Rear Speaker: (NX3)

DIN power output (rated) 25 + 25 watts
(8 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)
35 + 35 watts
(8 ohms at 1 kHz,
10% THD)

Inputs

VIDEO IN:
(phono jacks) voltage 250 mV,
impedance 47 kilohms
MD IN:
(phono jacks) voltage 450 mV,
impedance 47 kilohms

DVD INPUT: (NX3)

FRONT IN:
(phono jacks) voltage 450 mV,
impedance 47 kilohms
REAR IN:
(phono jacks) voltage 450 mV,
impedance 47 kilohms

CENTER IN:

(phono jacks)

WOOFER IN:

(phono jacks)

MIC:

(mini jack)

Outputs

MD OUT:

(phono jacks)

PHONES:

(stereo mini jack)

FRONT SPEAKER:

voltage 450 mV,
impedance 47 kilohms
voltage 450 mV,
impedance 47 kilohms
sensitivity 1 mV,
impedance 10 kilohms

voltage 250 mV
impedance 1 kilohms
accepts headphones of 8
ohms or more
accepts impedance of 6 to
16 ohms
accepts impedance of 16
ohms (NX1)
accepts impedance of 8 to
16 ohms (NX3)

REAR SPEAKER:

CENTER SPEAKER: (NX3)

accepts impedance of 8 to
16 ohms
Voltage 1 V, impedance 1
kilohms

SUPER WOOFER:

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range

Tourist model: 76.0 – 108.0 MHz

Other models:

87.5 – 108.0 MHz

Antenna

FM lead antenna

Antenna terminals

75 ohm unbalanced

Intermediate frequency

10.7 MHz

UKV tuner section

(3 band (FM-AM-UKV) models only)

Tuning range

65.0 – 74.0 MHz

Stereo Plus

– Continued on next page –



AM tuner section

Tuning range

2 Band type:

North American models: 530 – 1,710 kHz
(with the interval set at 10 kHz)
531 – 1,710 kHz
(with the interval set at 9 kHz)
European models: 531 – 1,602 kHz
(with the interval set at 9 kHz)
Other models: 531 – 1,602 kHz
(with the interval set at 9 kHz)
530 – 1,710 kHz
(with the interval set at 10 kHz)

3 Band type:

Middle Eastern models:

MW: 531 – 1,602 kHz
(with the interval set at 9 kHz)
SW: 5.95 – 17.90 MHz
(with the interval set at 5 kHz)
Other models: 531 – 1,602 kHz
(with the interval set at 9 kHz)
530 – 1,710 kHz
(with the interval set at 10 kHz)
SW: 5.95 – 17.90 MHz
(with the interval set at 5 kHz)
Antenna AM loop antenna
Antenna terminals External antenna terminal
Intermediate frequency 450 kHz

General

Power requirements

North American models: 120 V AC, 60 Hz
European models: 230 V AC, 50/60 Hz
Australian model: 230 – 240 V AC, 50/60 Hz
Other models: 120 V, 220 V or 230 – 240 V AC, 50/60 Hz
Adjustable with voltage selector

Power consumption

U.S.A. model: 270 watts (NX1)
290 watts (NX3)
Canadian model: 270 VA (NX1)
290 VA (NX3)
European model: 190 watts (NX1)
250 watts (NX3)
Other models: 230 watts (NX1)
290 watts (NX3)

Dimensions (w/h/d) Approx. 225 x 202 x 356 mm (8⁷/₈ x 8 x 14¹/₈ in.)

Mass

NX1: Approx. 7.2 kg (15 lb 14 oz)
NX3: Approx. 8 kg (17 lb 10 oz)

Supplied accessories:

AM loop antenna (1)
Remote Commander (1)
Batteries (2)
FM lead antenna (1)
Speaker cords (5)
Front speaker pads (8)
Center and rear speaker pads (12) (NX3)

Design and specifications are subject to change without notice.

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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.

SECTION 1 SERVICING NOTES

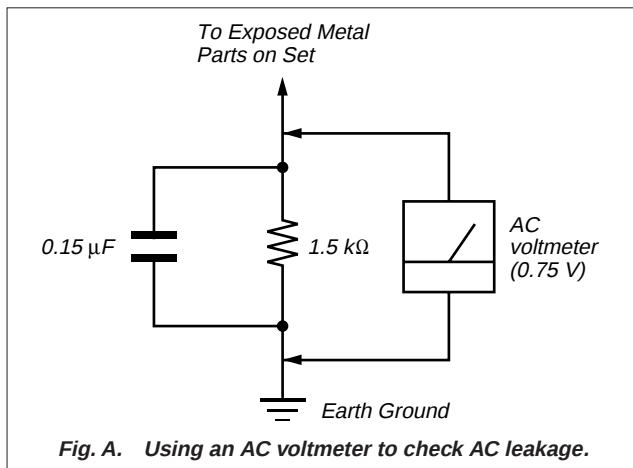
SAFETY CHECK-OUT

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

LEAKAGE TEST

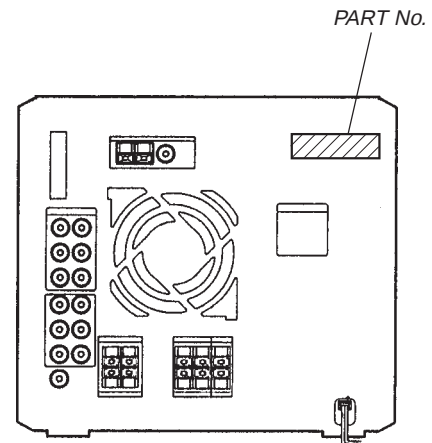
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

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



• MODEL IDENTIFICATION

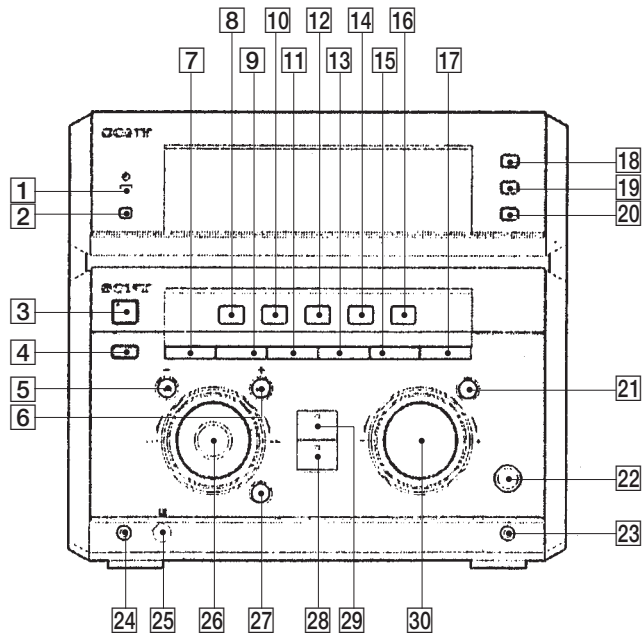
– Rear Panel –



MODEL	PART No.
NX1: AEP, UK and Korean models	4-221-391-0□
NX1: US and Canadian models	4-221-391-1□
NX1: Malaysia, Singapore, Thai and Tourist models	4-221-391-2□
NX3: AEP, UK, Korean and Australian models	4-221-391-3□
NX3: US and Canadian models	4-221-391-4□
NX3: Malaysia and Singapore models	4-221-391-5□

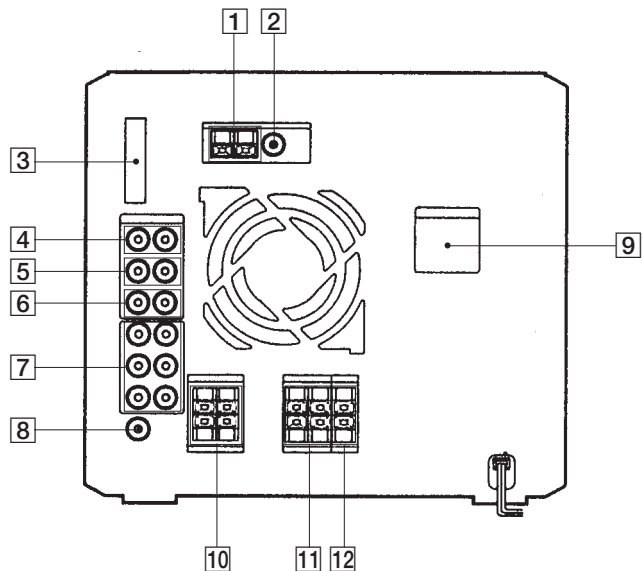
SECTION 2 GENERAL

• LOCATION OF CONTROLS – Front Panel –



- 1** TIMER indicator (US, Canadian, AEP and UK models)
- 2** DISPLAY button
- 3** I/⏻ button and indicator
- 4** POWER SAVE/DEMO (STANDBY) button
- 5** – ◀ button
- 6** + ▶ button
- 7** FILE SELECT button
- 8** VIDEO/DVD button
- 9** EDIT button
- 10** MD button
- 11** REPEAT button
- 12** TAPE button
- 13** PLAY MODE button
- 14** CD button
- 15** DBFB button
- 16** TUNER button
- 17** DSP button
- 18** TUNER BAND button
- 19** STEREO/MONO button
- 20** TUNER MEMORY button
- 21** GROOVE button and indicator
- 22** MIC LEVEL knob
- 23** MIC jack
- 24** PHONES jack
- 25** Remote sensor
- 26** Jog dial
- 27** ENTER button and indicator
- 28** DVD 5.1CH button and indicator (STR-NX3)
- 29** PRO LOGIC button and indicator (STR-NX3)
- 30** VOLUME knob

– Rear Panel –



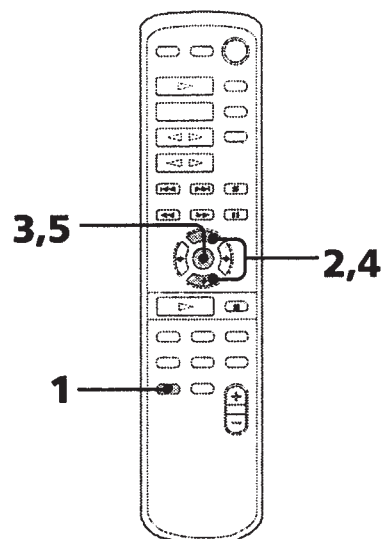
- 1** AM ANTENNA terminals
- 2** FM ANTENNA terminal
- 3** SYSTEM CONTROL connector
- 4** VIDEO (AUDIO) IN jacks
- 5** MD IN jacks
- 6** MD OUT jacks
- 7** DVD 5.1CH INPUT jacks (STR-NX3)
- 8** SUPER WOOFER OUT jack
- 9** VOLTAGE SELECTOR switch
(Malaysia, Singapore and Tourist models)
- 10** FRONT SPEAKER terminals
- 11** REAR SPEAKER terminals
- 12** CENTER SPEAKER terminals (STR-NX3)

Step 2: Setting the time (STR-NX1)

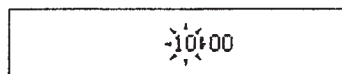
You must set the time before using the timer functions.

The clock is on a 24-hour system for the European model, and a 12-hour system for other models.

The 24-hour system model is used for illustration purposes.

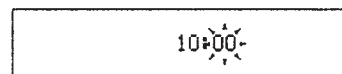


- 1 Press **CLOCK/TIMER**.
The hour indication flashes.



- 2 Press **▲** or **▼** to set the hour.
The clock is on a 24-hour system for the European model and a 12-hour system for other models.

- 3 Press **ENTER**.
The minute indication flashes.



- 4 Press **▲** or **▼** to set the minute.

- 5 Press **ENTER**.
The clock starts working.

Tips

- If you've made a mistake, start over from step 1.
- Setting the time deactivates the demo mode.
If you want to display the demo mode, press **DISPLAY** (U.S.A., Canadian and European models) or **DEMO (STANDBY)** (other models) when the power is off.

To change the time

The previous explanation shows you how to set the time while the power is off. To change the time while the power is on, do the following:

- 1 Press **CLOCK/TIMER**.
- 2 Press **▲** or **▼** to select the **SET CLOCK**.
- 3 Press **ENTER**.
- 4 Perform steps 2 through 5 above.

Note

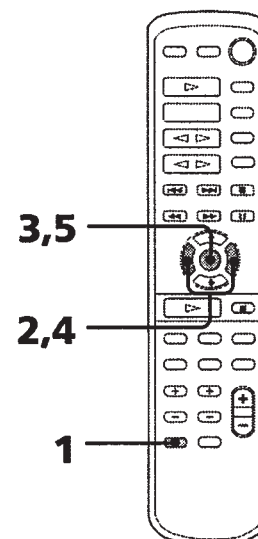
The clock settings are cancelled when you disconnect the power cord or if a power failure occurs.

Step 3: Setting the time (STR-NX3)

You must set the time before using the timer functions.

The clock is on a 24-hour system for the European model, and a 12-hour system for other models.

The 24-hour system model is used for illustration purposes.

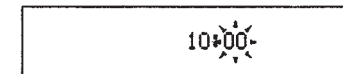


- 1 Press **CLOCK/TIMER**.
The hour indication flashes.



- 2 Press **▲** or **▼** to set the hour.
The clock is on a 24-hour system for the European model and a 12-hour system for other models.

- 3 Press **ENTER**.
The minute indication flashes.



- 4 Press **▲** or **▼** to set the minute.

- 5 Press **ENTER**.
The clock starts working.

Tips

- If you've made a mistake, start over from step 1.
- Setting the time deactivates the demo mode.
If you want to display the demo mode, press **DISPLAY** (U.S.A., Canadian and European models) or **DEMO (STANDBY)** (other models) when the power is off.

To change the time

The previous explanation shows you how to set the time while the power is off. To change the time while the power is on, do the following:

- 1 Press **CLOCK/TIMER**.
- 2 Press **▲** or **▼** to select the **SET CLOCK**.
- 3 Press **ENTER**.
- 4 Perform steps 2 through 5 above.

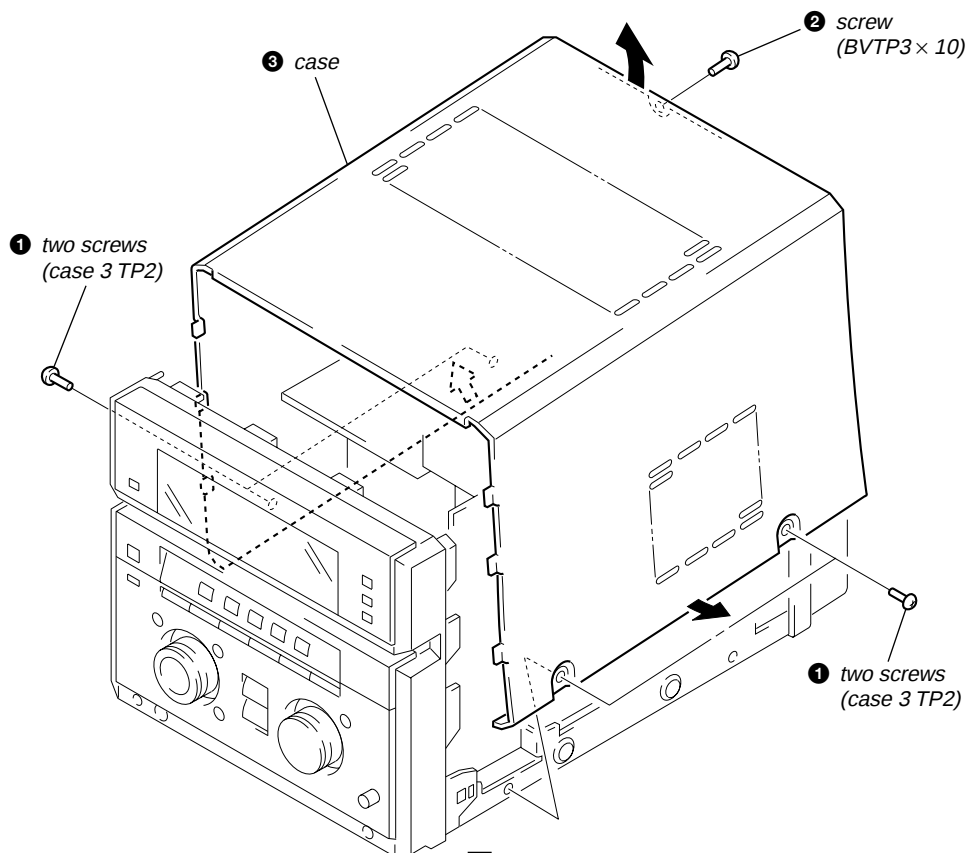
Note

The clock settings are cancelled when you disconnect the power cord or if a power failure occurs.

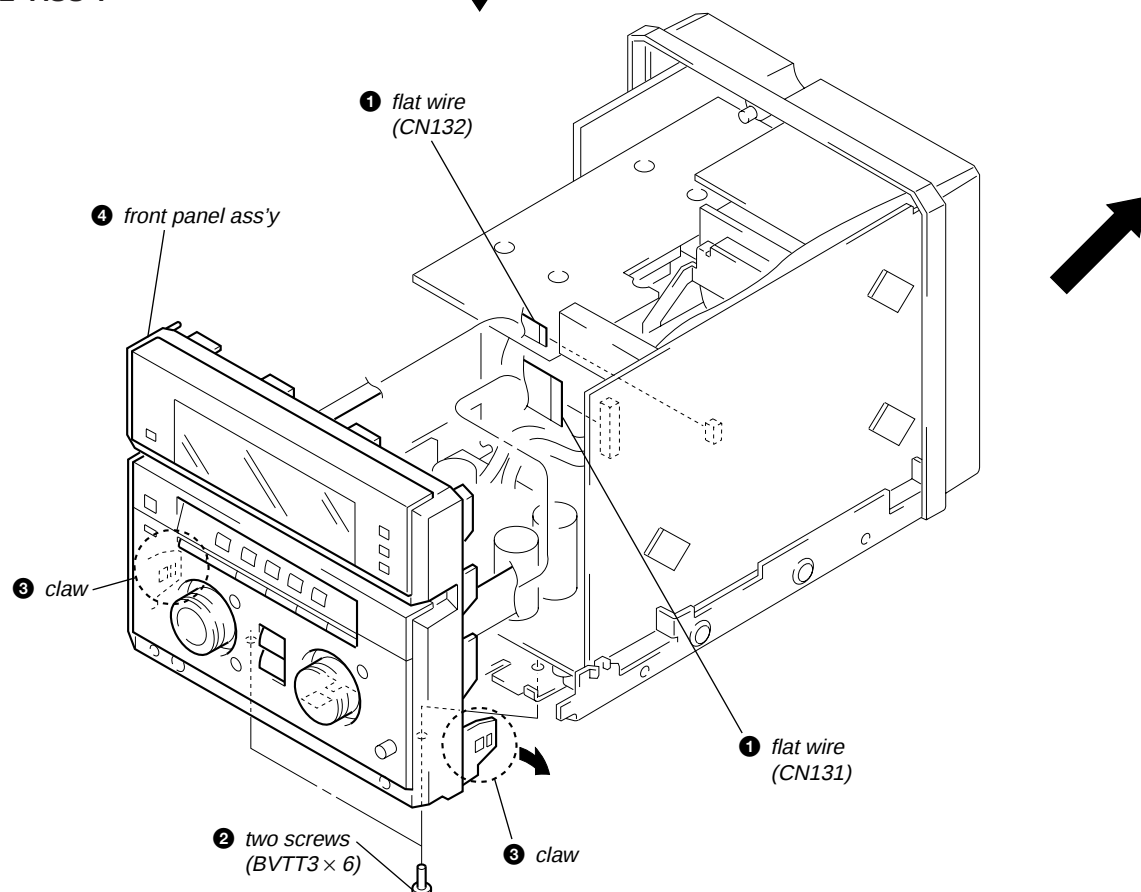
SECTION 3 DISASSEMBLY

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

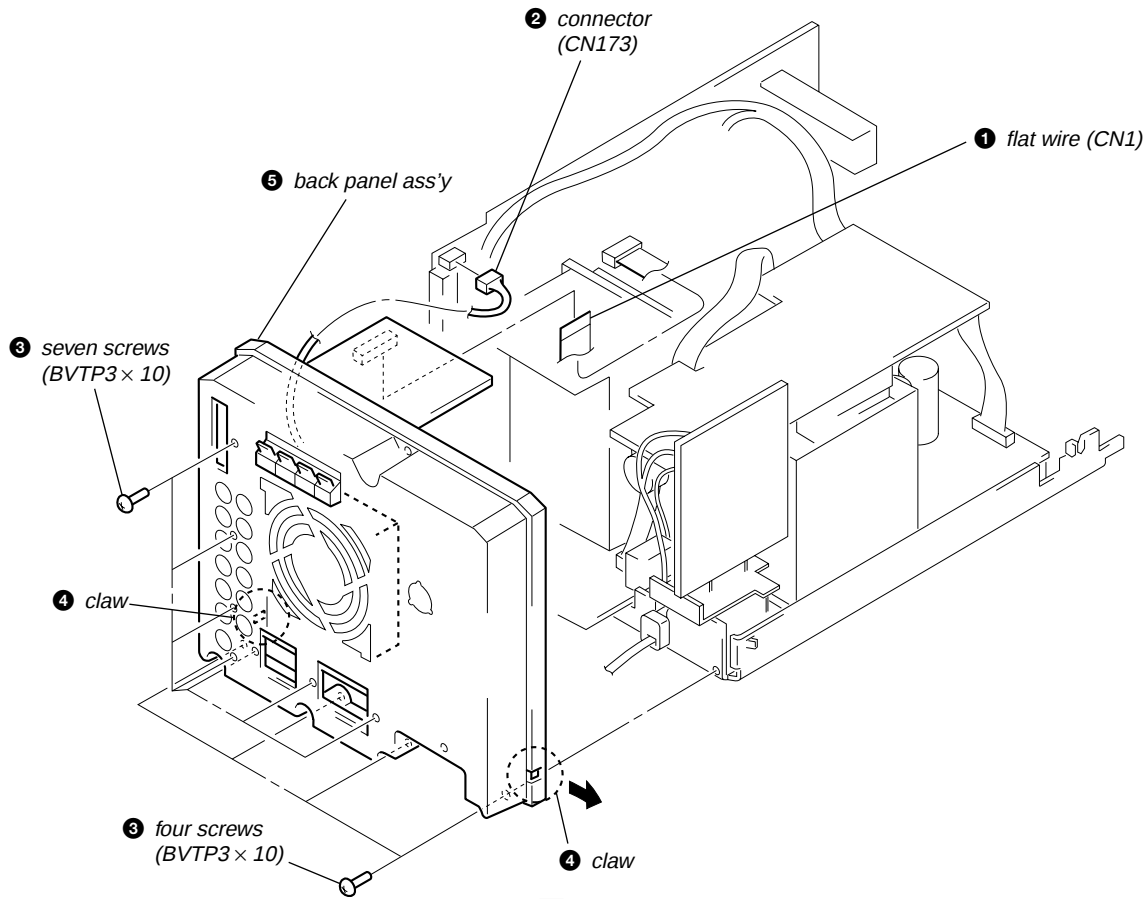
CASE



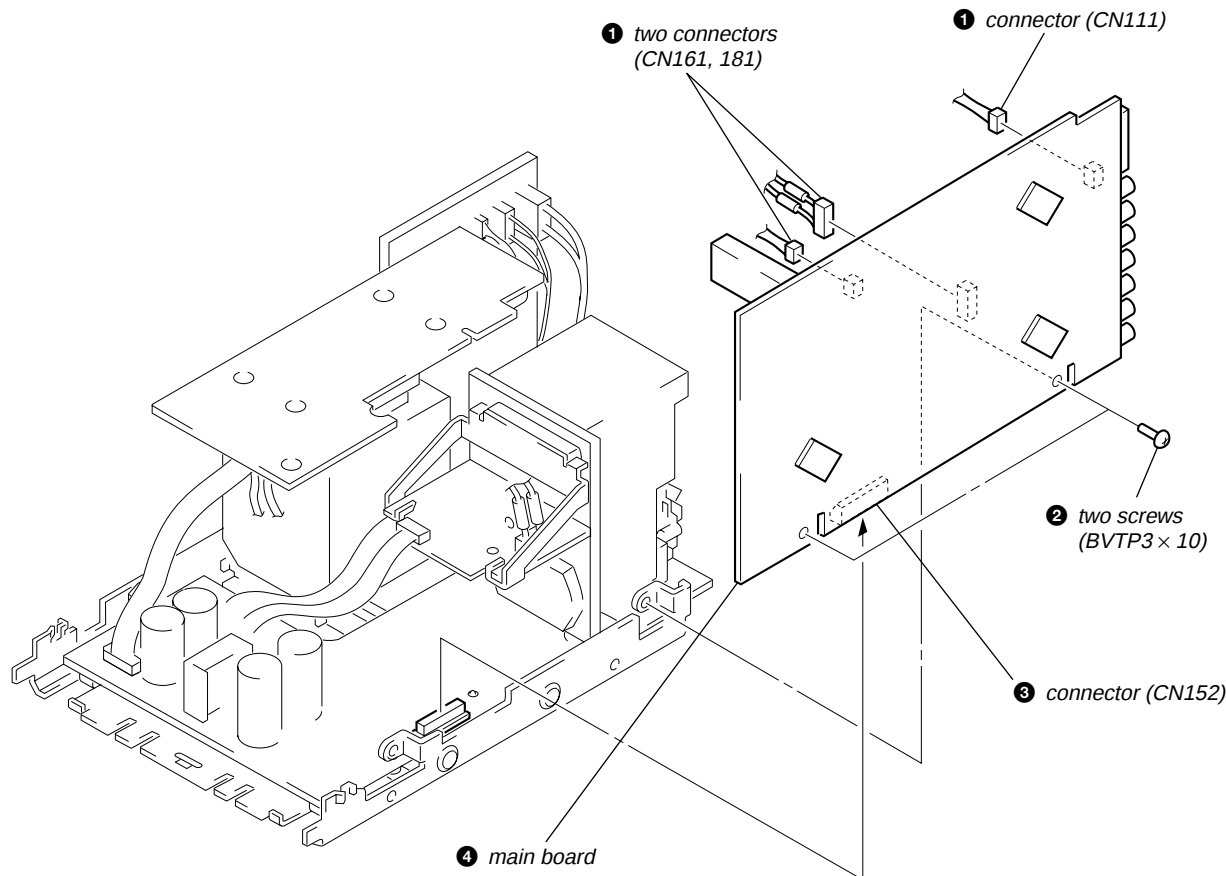
FRONT PANEL ASS'Y



BACK PANEL ASS'Y



MAIN BOARD



SECTION 4

TEST MODE

[CD Delivery Mode]

- Execute only if connected to the HTC-NX1.
- 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 **I/⏻** button to turn the power ON.
2. Press the **ENTER** and **I/⏻** buttons simultaneously.
3. A message "LOCK" is displayed on the liquid crystal display, and the CD delivery mode is set.

[Change-over the MW Tuning Interval] (EXCEPT AEP and UK models)

- The MW tuning interval can be changed over 9 kHz or 10 kHz.

Procedure:

1. Press the **I/⏻** button to turn the power ON.
2. Press the **TUNER** button to select the function "TUNER", and press the **TUNER BAND** button to select the BAND "MW".
3. Press the **I/⏻** button to turn the power OFF.
4. Press the **TUNER MEMORY** and **I/⏻** buttons simultaneously, and the display on the liquid crystal display changes to "MW 9 k STEP" or "MW 10 k STEP", and thus the tuning interval is changed over.

[MC Cold Reset]

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Turn the power ON or set to the DEMO mode.
2. Press the **GROOVE** and **I/⏻** buttons simultaneously.
3. The set is reset, and displays "COLD RESET", then becomes DEMO mode.

[Amplifier Test Mode]

Procedure:

1. Press the **I/⏻** button to turn the power ON.
2. Press three buttons of **ENTER** , **DISPLAY** , and **TUNER BAND** simultaneously.
3. "ALC OFF" is displayed, then the function which was set before the test mode became active is displayed.

[LED and Liquid Crystal Display All Lit, Software Version Display, Key Check, VACS Level Display Mode]

Procedure:

1. Press the **I/⏻** button to turn the power ON.
2. Press three buttons of **ENTER** , **DISPLAY** , and **STEREO/MONO** simultaneously.
3. LEDs and liquid crystal display are all turned on. Rotating the JOG dial changes over the check patterns of liquid crystal display.
4. Successively, the following three modes can be activated.
 - (1) Press the **VIDEO/DVD** button, and the software version is displayed on the liquid crystal display.
 - (2) Press the **MD** button, and the key check mode is activated. In the key check mode, the liquid crystal display displays "K 0 J0 V0". Each time a button is pressed, "K" value increases. However, once a button is pressed, it is no longer taken into account.
"J" value increases like 1, 2, 3 ... if turn the JOG dial clockwise, or it decreases like 0, 9, 8 ... if turn the JOG dial counter-clockwise.
"V" value increases like 1, 2, 3 ... if turn the **VOLUME** dial clockwise, or it decreases like 0, 9, 8 ... if turn the JOG dial counter-clockwise.
 - (3) Press the **TAPE** button, and the VACS level is displayed on the liquid crystal display.

5. To release from these mode, press three buttons in the same manner as step 2, or remove the power cord.

[MC Hot Reset]

- This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

1. Turn the power ON or set to the DEMO mode.
2. Press three buttons of **ENTER** , **DISPLAY** , and **TUNER MEMORY** simultaneously.
3. The set is reset, and becomes standby state.

[Change-over of VACS ON/OFF]

Procedure:

1. Press the **I/⏻** button to turn the power ON.
2. Press three buttons of **ENTER** , **DISPLAY** , and **GROOVE** simultaneously, and the display on the liquid crystal display changes to "VACS ON" or "VACS OFF", and thus the VACS ON/OFF is changed over.

[VIDEO input, Record and CD play in CD function]

- Execute only if connected to the HTC-NX1.

Procedure:

1. Press the **I/⏻** button to turn the power ON.
2. Press three buttons of **ENTER** , **DISPLAY** , and **◀◀** simultaneously.
3. "DVD 5.1CH" is displayed on liquid crystal display, and at the same time, CD is played and the deck B is placed in the record status.

[CD Service Mode]

- Execute only if connected to the HTC-NX1.
- This mode can run the CD sled motor optionally. Use this mode, for instance, when cleaning the optical pick-up.

Procedure:

1. Press the **I/⏻** button to turn the power ON.
2. Press the **CD** button to select the function "CD".
3. Press three buttons of **ENTER** , **POWER SAVE/DEMO** , and **STEREO/MONO** simultaneously.
4. Set to the Sled Servo mode.
5. With the CD in stop status, turn the JOG dial clockwise to move the optical pick-up to outside track, or turn it counter-clockwise to inside track.
6. To release from this mode, perform as follows.
 - 1) Move the optical pick-up to the most inside track.
 - 2) Remove the power cord.

- Notes:**
- Always move the optical pick-up to most inside track when releasing from this mode. Otherwise, a disc will not be unloaded.
 - Do not run the sled motor excessively, otherwise the gear can be chipped.

[Aging Mode]

- Execute only if connected to the HTC-NX1.

This mode can be used for operation check of CD section and tape deck section.

CD section and tape deck section work in parallel.

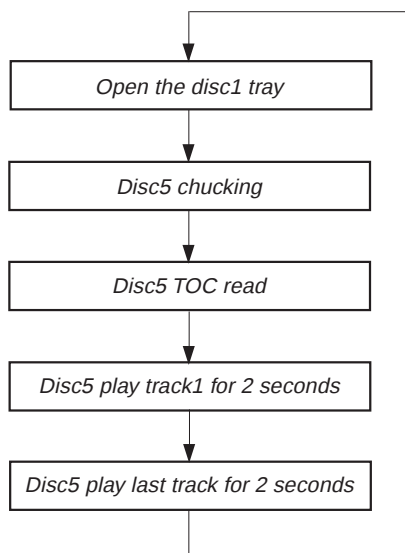
- If an error occurred:
The aging operation stops only an error occurred sections and display then status.
- If no error occurs:
The aging operation continues repeatedly.

Procedure:

1. Set disc in DISC5 tray.
2. Load the tapes into the decks A and B respectively.
3. Press the **PLAY MODE** button to set the "ALL DISCS" mode, and press the **REPEAT** button to "REPEAT" off.
4. Press the **CD** button to select the function "CD".
5. Press three buttons of **ENTER** , **POWER SAVE/DEMO** , and **TUNER BAND** simultaneously.
6. The aging mode is activated, if the indicator of disc tray number on the liquid crystal display is blinking.
7. To release from the aging mode, press the **I/⏻** button to turn the power OFF and operate the cold reset. (Refer to the "MC Cold Reset")

1. Display at the Aging Mode
 - Display operating state of CD section and tape deck section alternately.
 - If an error occurred, stop display which that section.
2. CD Section
 - Display at the aging mode is the same as the normal operation.
 - The sequence during the aging mode is following as below.

Aging mode sequence (CD section) :



- Display at an error occurred

- 1) Display of the error count

- (1) Press three buttons of **ENTER** , **POWER SAVE/DEMO** , and **GROOVE** simultaneously.
- (2) Display of the error count following as below.

Display

EMC**EDC**

Notes:

EMC**: The number of mechanical error.

EDC**: The number of no disc error after chucking the disc.

- 2) Display of mechanical error

Display

E**M##\$\$&&

Notes:

** : The number of mechanical error. ("00" is latest one)

(Press the **PLAY MODE** button to changes next error display)

: Not used.

\$\$: Loading error. (Second figure is not used)

D : The error in the midst of close at the except mechanical trouble.

E : The error in the midst of open at the except mechanical trouble.

C : The error in the midst of chuck up at the except mechanical trouble.

F : The error in the midst of EX-open at the except mechanical trouble.

&& : Loading error. (Second figure in not used)

1: The error in the midst of chuck up.

2: The error in the midst of chuck down.

3: Time up of EX-open

4: Time up of EX-close.

- 3) Display of no disc error

Display

E**D##\$\$&&

Notes:

** : The number of mechanical error. ("00" is latest one)

(Press the **REPEAT** button to changes next error display)

:

01: Focus error

02: GFS error

03: Set up error

\$\$:

00: No disc error when does not chucking retry.

02: No disc error when chucking retry to completion.

&& : The state when judged no disc error. (Second figure is not used)

1: Stop

2: Set up

3: TOC read

4: Access

5: Play

6: Pause

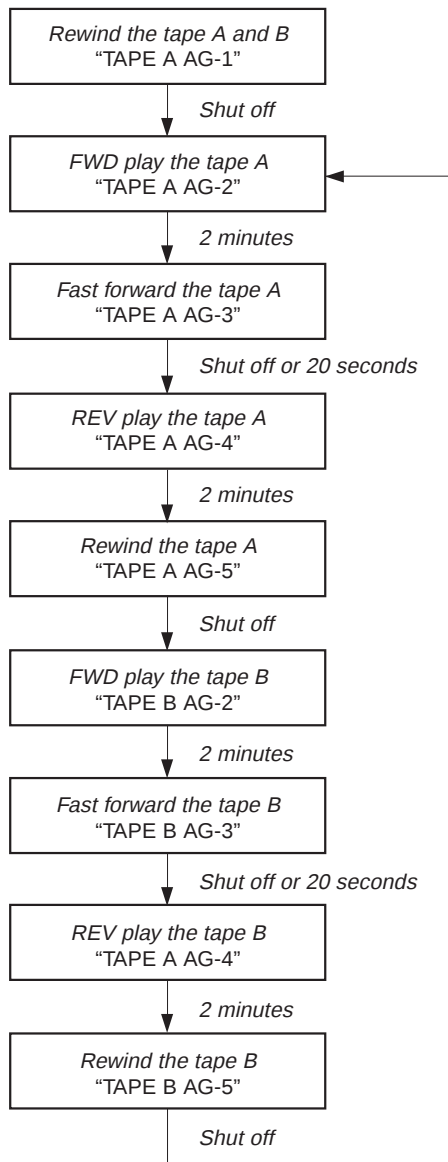
7: Manual search (Play)

8: Manual search (Pause)3. Tape Deck Section

3. Tape Deck Section

- The sequence during the aging mode is following as below.
- If an error occurred, stop display that step.

Aging mode sequence (Tape deck section) :



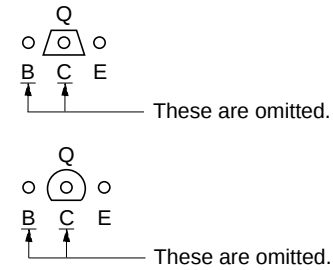
Note: "TAPE * AG-*" is display of each step.

SECTION 5
DIAGRAMS

5-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

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)
- : Indication of transistor.



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 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.
- $\square$: nonflammable resistor.
- $\square$: fusible resistor.
- $\square$: panel designation.

Note:

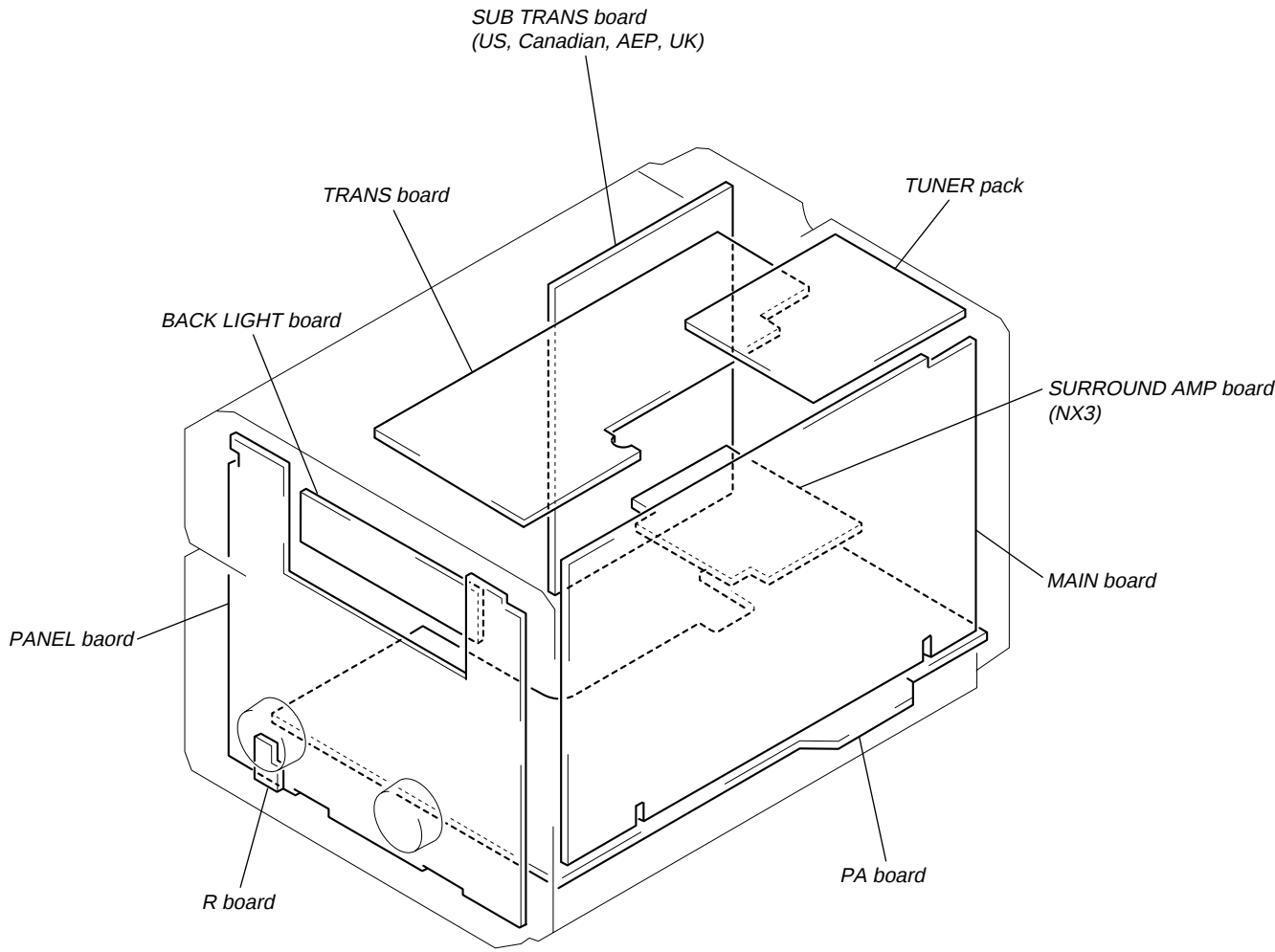
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note:

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

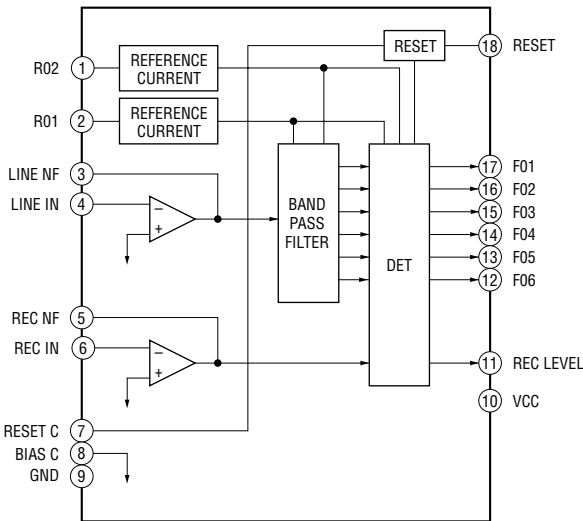
- $\square$: B+ Line.
- $\square$: B- Line.
- Voltagages and waveforms are dc with respect to ground under no-signal (detuned) conditions. no mark : TUNER (FM)
- Voltagages are taken with a VOM (Input impedance 10 $\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - $\Rightarrow$: TUNER (FM)
 - $\Rightarrow$: TAPE PLAYBACK
 - $\Rightarrow$: RECORD
 - $\Rightarrow$: CD PLAY
 - $\Rightarrow$: MIC INPUT
- 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



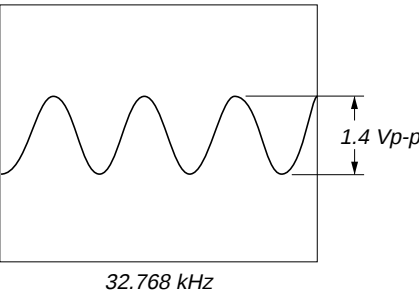
• IC Block Diagram
– MAIN Board –

IC401 BA3830F

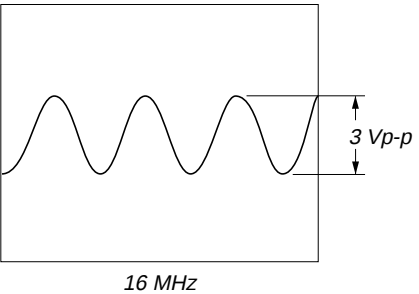


• Waveforms
– MAIN Board –

① IC501 ⑩ (XCIN)

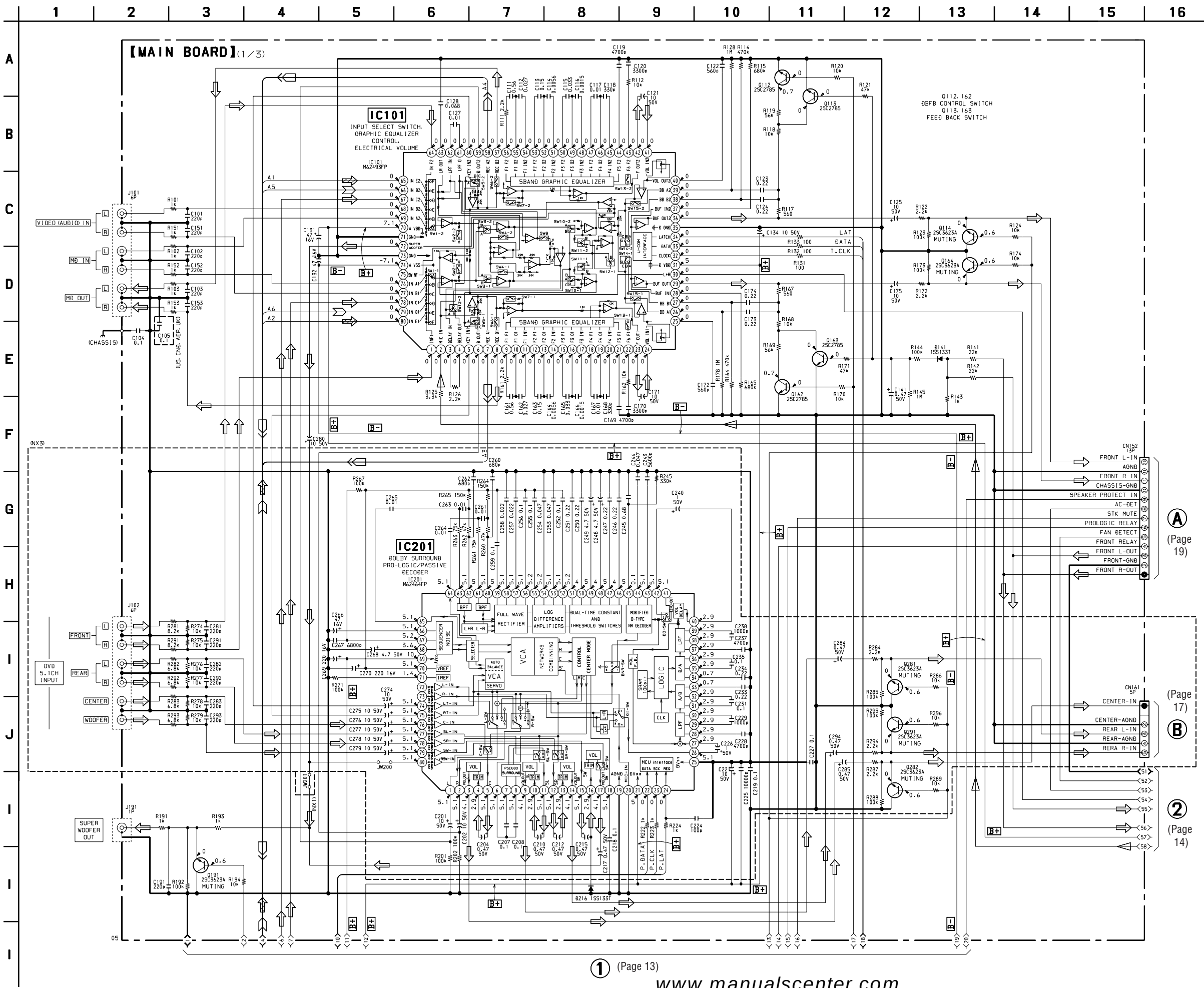


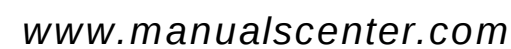
② IC501 ⑬ (XOUT)



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5-2. SCHEMATIC DIAGRAM – MAIN Board (1/3) –



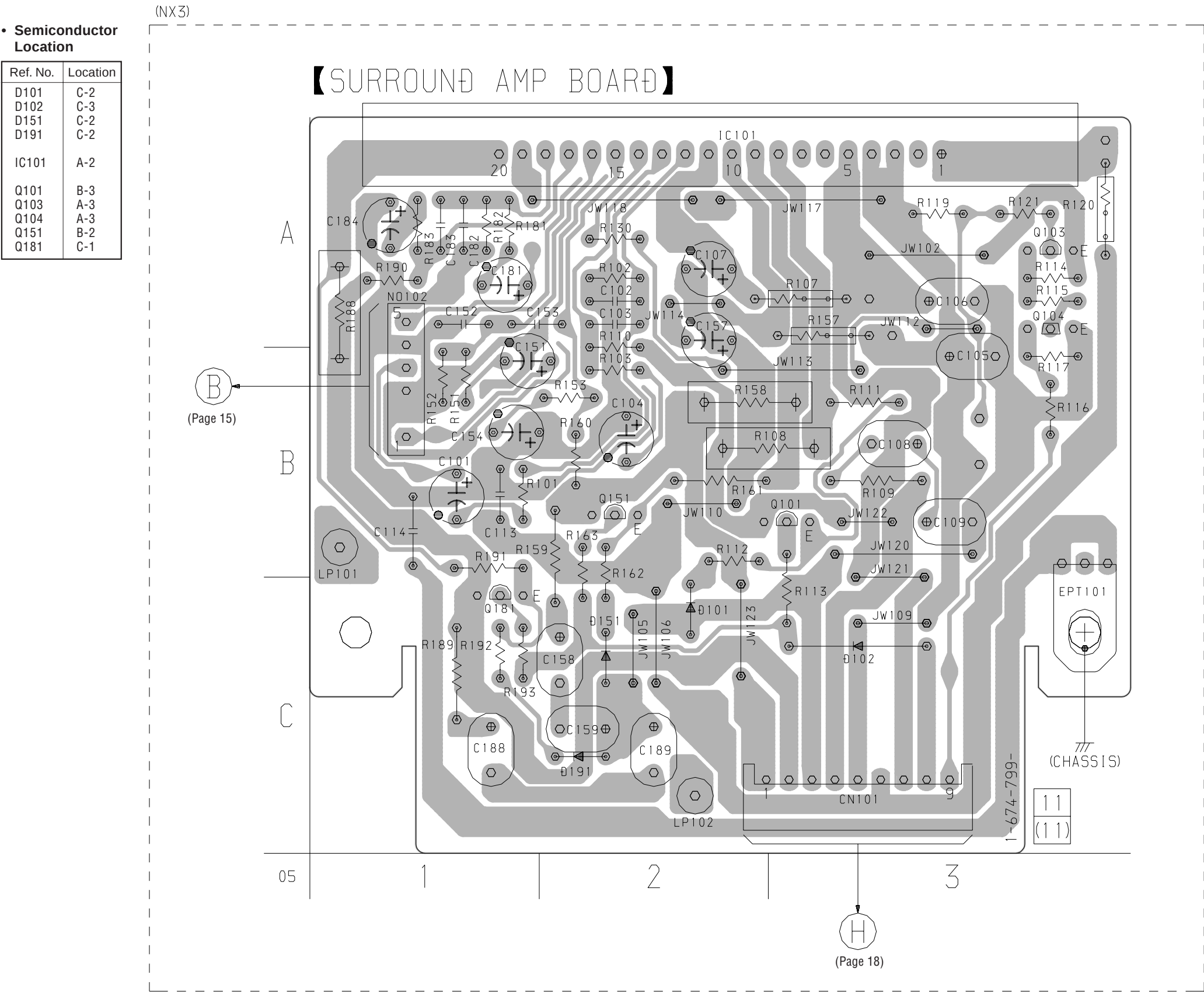


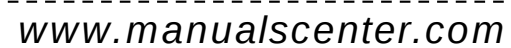


Ref. No.	Location	Ref. No.	Location
D141	A-8	IC921	C-2
D216	E-9		
D501	B-2	Q112	A-8
D502	D-1	Q113	A-8
D503	D-1	Q114	G-6
D504	E-1	Q162	A-9
D505	E-1	Q163	A-9
D506	E-1	Q164	G-6
D507	F-1	Q191	G-11
D508	E-2	Q281	D-8
D510	C-1	Q282	D-7
D901	B-5	Q291	D-8
D902	A-5	Q411	D-5
D903	B-5	Q421	C-3
D904	A-4	Q431	E-6
D905	A-6	Q432	D-6
D906	A-6	Q461	D-5
D914	A-3	Q501	F-1
D915	B-3	Q502	F-1
D920	B-4	Q503	F-1
D921	B-3	Q901	A-6
D922	E-7	Q902	A-6
D923	E-7	Q903	A-6
D924	D-6	Q904	A-3
D925	B-4	Q905	A-3
D931	A-4	Q906	B-3
D932	A-4	Q907	B-4
		Q921	B-3
IC101	B-9	Q923	C-3
IC201	E-9	Q924	B-3
IC401	E-5	Q951	B-6
IC501	E-3	Q952	B-6
IC502	E-1	Q953	B-6
IC901	A-2		



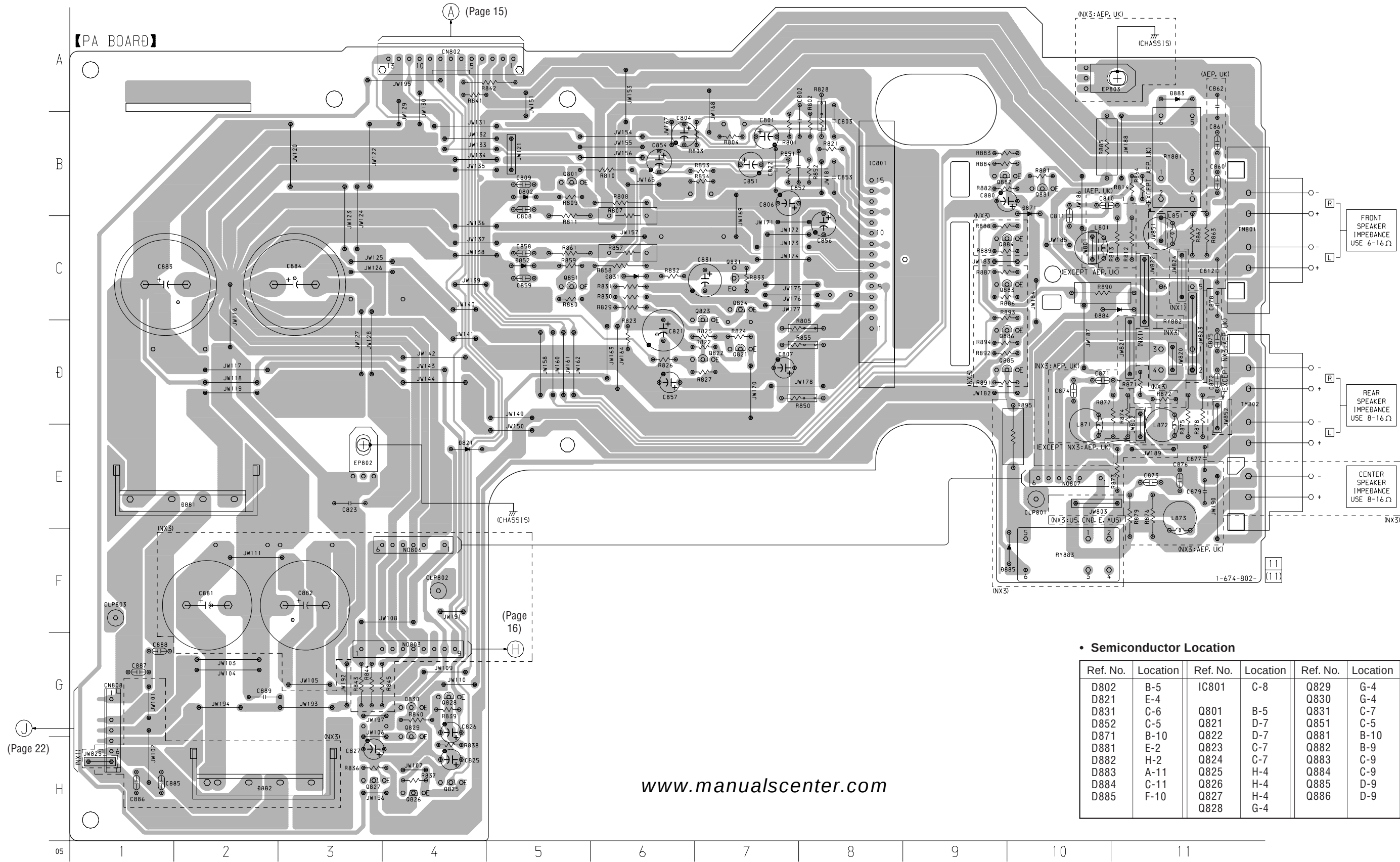
5-6. PRINTED WIRING BOARD – SURROUND AMP Board – • See page 11 for Circuit Boards Location.





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

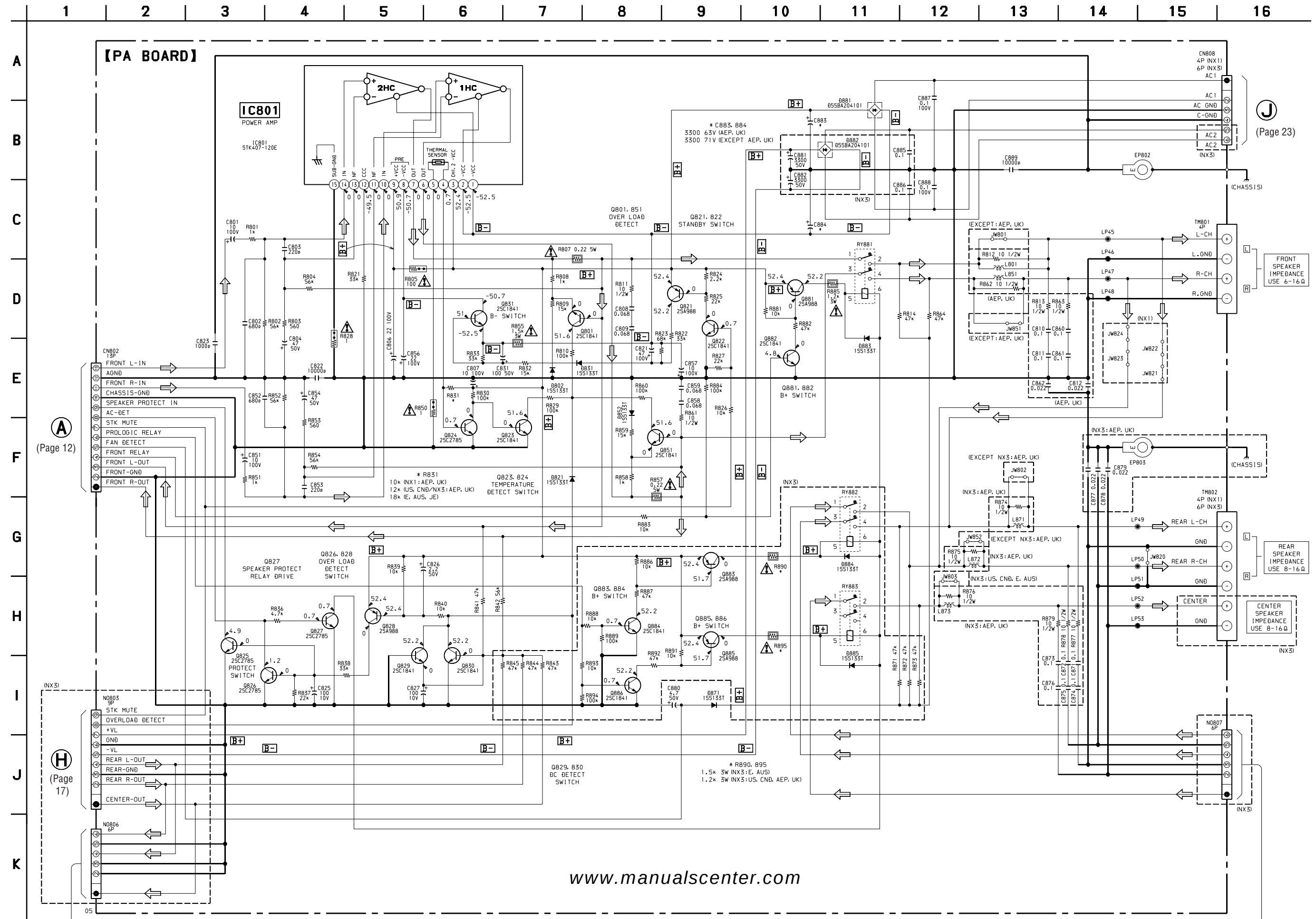
5-8. PRINTED WIRING BOARD – PA Board – • See page 11 for Circuit Boards Location.

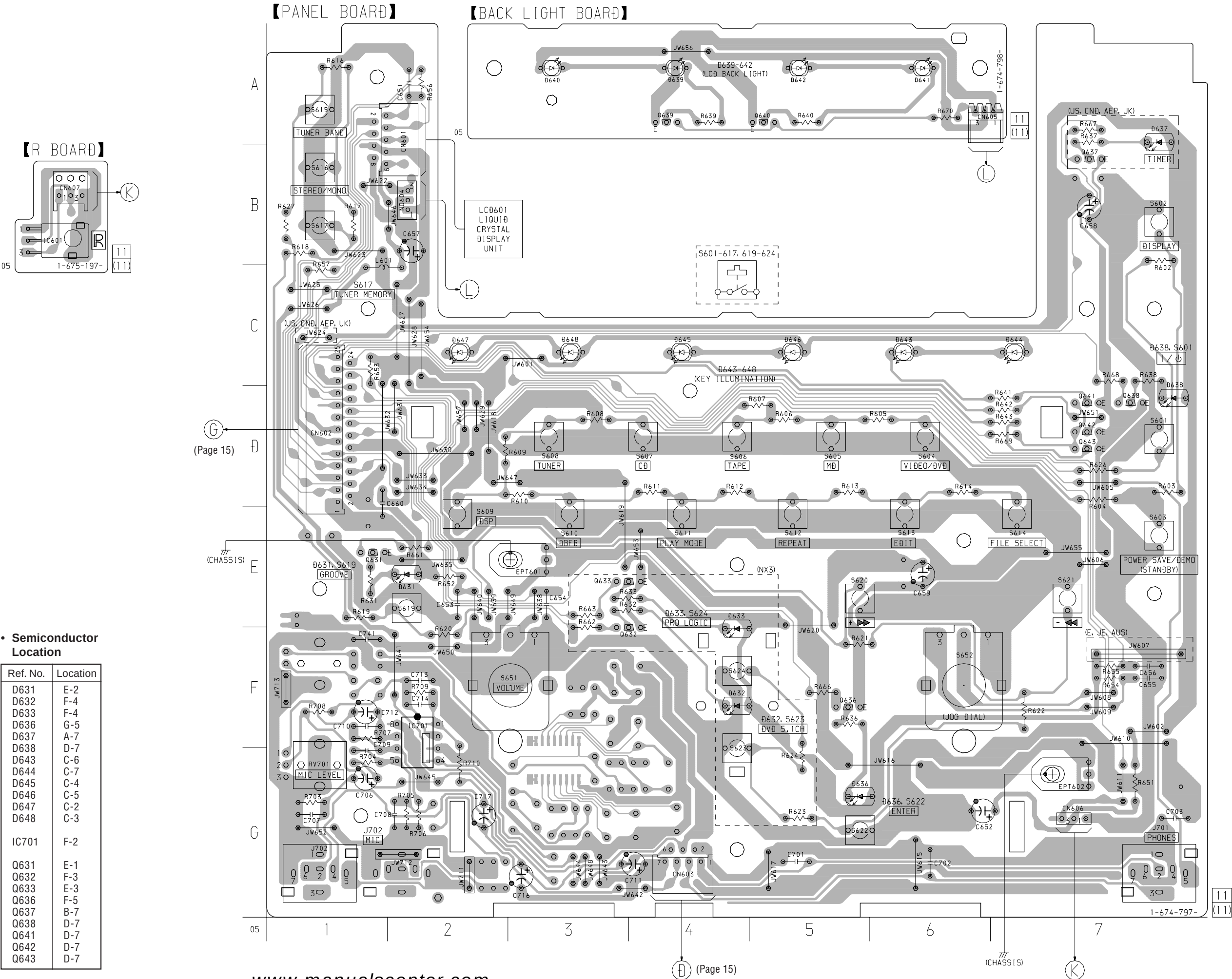


5-9. SCHEMATIC DIAGRAM – PA Board –

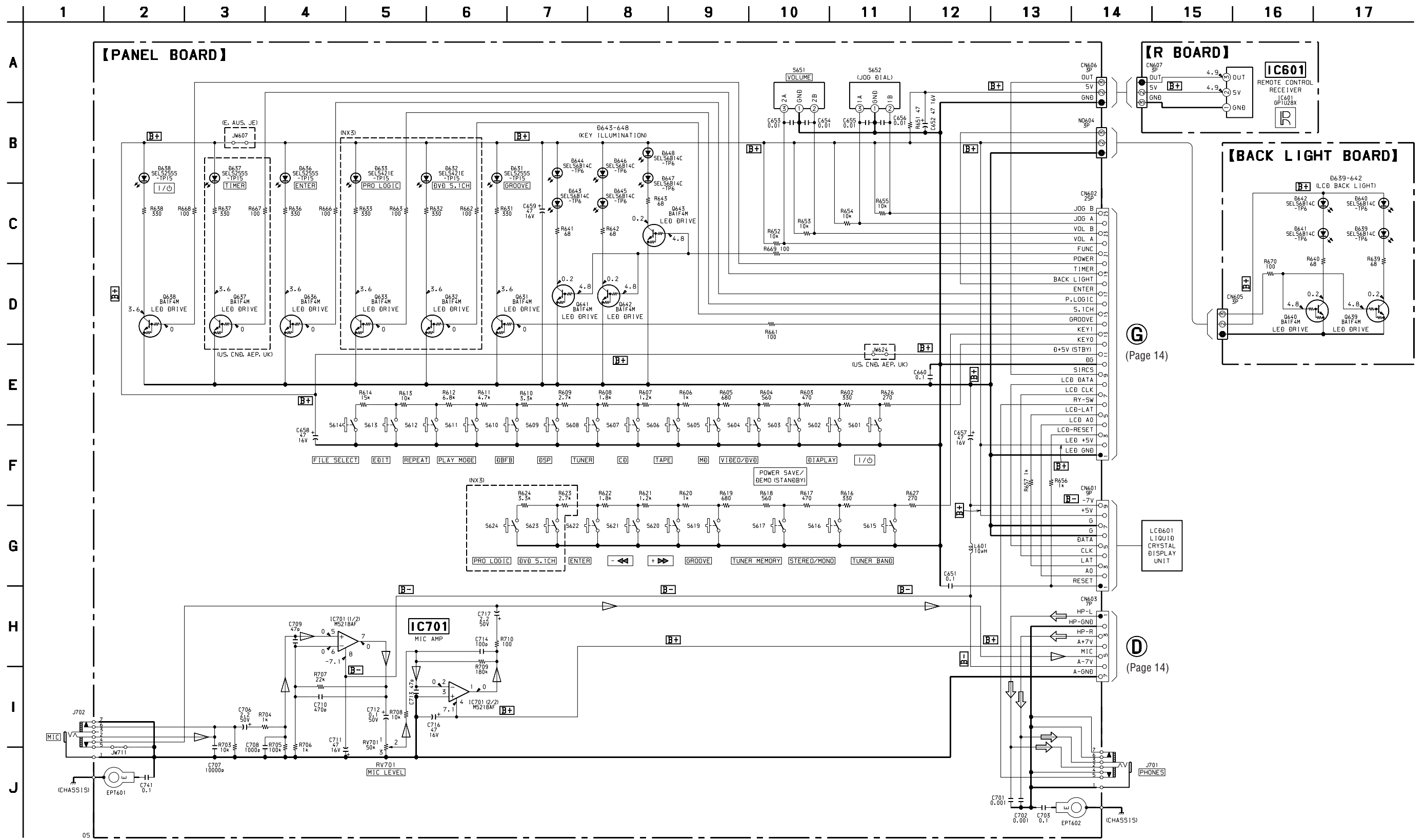
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

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

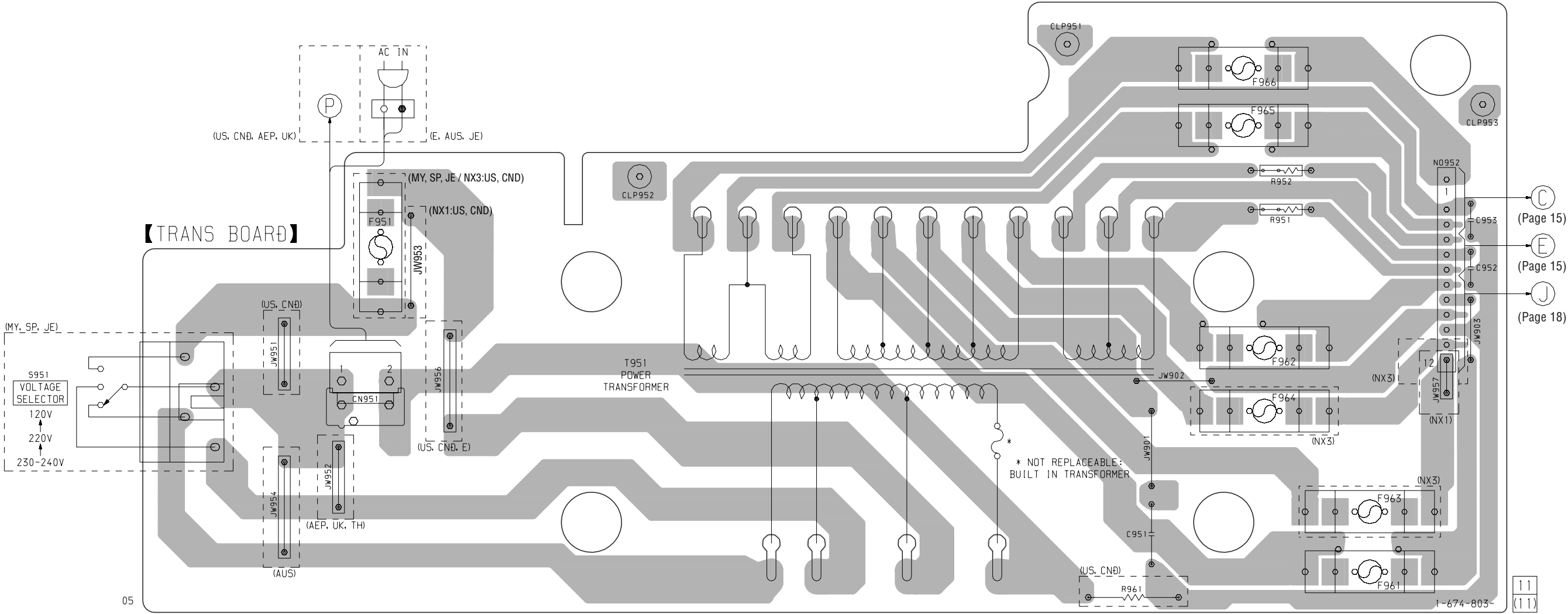




5-11. SCHEMATIC DIAGRAM – PANEL Section –



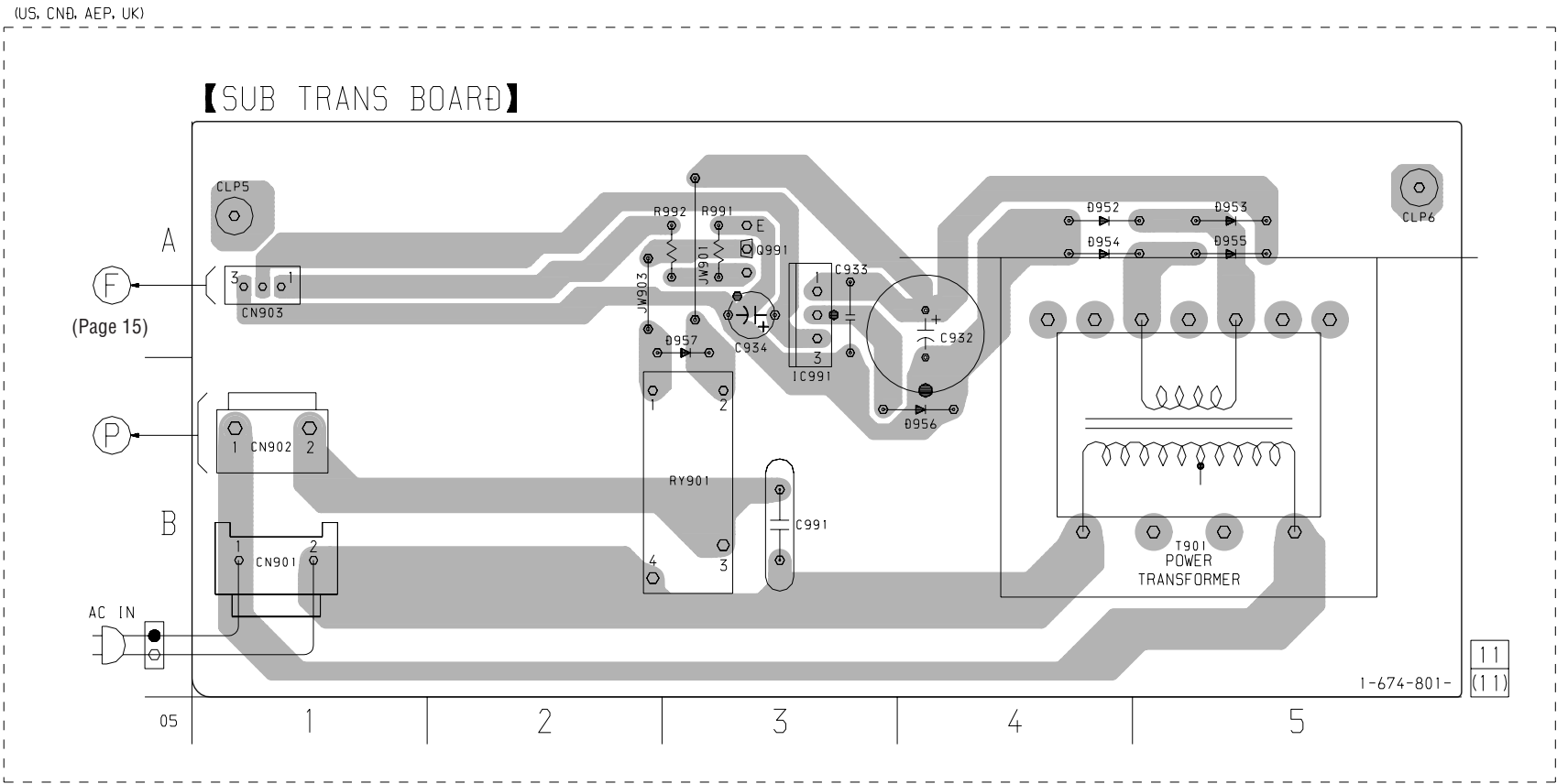
5-12. PRINTED WIRING BOARDS – TRANSFORMER Section – • See page 11 for Circuit Boards Location.



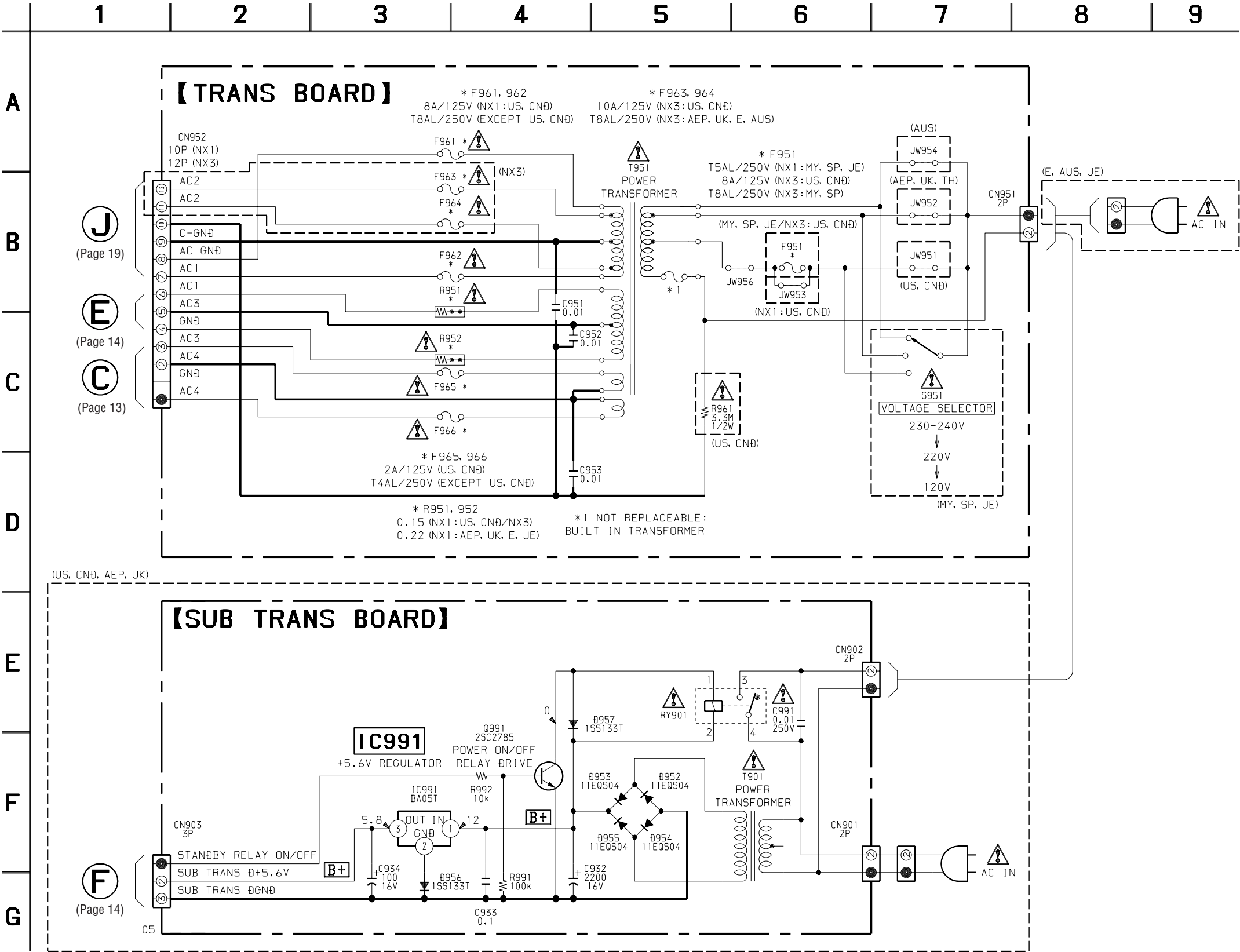
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• Semiconductor Location

Ref. No.	Location
D952	A-4
D953	A-5
D954	A-4
D955	A-5
D956	B-4
D957	A-3
IC991	A-3
Q991	A-3



5-13. SCHEMATIC DIAGRAM – TRANSFORMER Section –



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

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

5-14. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC501 M30622MA-A12FP (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	L+R	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (IC401) (for VACS, non-stop signal)
2	BPF SL	I	Spectrum analyzer drive (super low frequency) signal input from the spectrum analyzer band-pass filter (IC401) (for 40 Hz)
3	F RELAY	O	Speaker protect relay drive signal output for the front side speaker “H”: relay on
4	R RELAY	O	Speaker protect relay drive signal output for the rear side speaker “H”: relay on
5	SIRCS	I	Remote control signal input from the remote control receiver (IC601)
6	LINE MUTE	O	Line muting on/off control signal output terminal “L”: muting on
7	DBFB	O	DBFB normal/high selection signal output to the M62493FP (IC101) “L”: DBFB high, “H”: DBFB low/off
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 (32.768 kHz)
11	XCOUT	O	Sub system clock output terminal (32.768 kHz)
12	<u>RESET</u>	I	System reset signal input from the reset signal generator (IC502) “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	VCC	—	Power supply terminal (+5V)
17	NMI	I	Non-maskable interrupt input terminal Fixed at “H” in this set
18	WAKE UP	O	Wakeup control signal output to the CPU on the HTC-NX1 “H” active
19	PHONES MUTE	O	Muting on/off control signal output terminal “L”: muting on Not used (open)
20	RDS INT	I	RDS serial data transfer clock signal input from the tuner pack (Used for the AEP and UK models only)
21	RDS DATA	I	RDS serial data input from the tuner pack (Used for the AEP and UK models only)
22	<u>AC CUT</u>	I	AC off detection signal input from the reset signal generator (IC502) “L”: AC cut checked
23	PL CLK	O	Serial data transfer clock signal output to the M62464FP (IC201) (Used for the STR-NX3 only)
24	PL DATA	O	Serial data output to the M62464FP (IC201) (Used for the STR-NX3 only)
25	PL LAT	O	Serial data latch pulse output to the M62464FP (IC201) (Used for the STR-NX3 only)
26	STK POWER	O	Power amplifier on/off selection signal output terminal “L”: standby mode, “H”: on
27	SPEAKER PROTECT	I	Protect on/off detection signal input from the speaker protect circuit “L”: protect on, “H”: protect off
28	SOFT-TEST	O	Output terminal for the software test Not used (open)
29	IIC CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the CPU on the HTC-NX1
30	IIC DATA	I/O	Communication data bus with the CPU on the HTC-NX1
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	LCD DATA	O	Serial data output to the liquid crystal display unit (LCD601)
36	RXD0	I	Not used (fixed at “L”)
37	LCD CLK	O	Serial data transfer clock signal output to the liquid crystal display unit (LCD601)
38	493 LT	O	Serial data latch pulse output to the M62493FP (IC101)

Pin No.	Pin Name	I/O	Description
39	CLOCK OUT	O	Output terminal for the clock signal check Not used (open)
40	VC L+R/L–R	O	Virtual cinema L+R/L–R selection signal output terminal Not used (open)
41	XHOLD	I	Not used (fixed at “L”)
42	LCD SW	O	Liquid crystal display on/off selection signal output terminal “L”: on, “H”: off Not used (open)
43	STBY RELAY	O	Main power on/off control signal output terminal “L”: standby mode, “H”: power on (Used for the US, Canadian, AEP and UK models only)
44	BASS FREQ	O	Sync bass frequency normal/high selection signal output to the M62493FP (IC101) “L”: sync bass off (normal), “H”: sync bass high Not used (open)
45	OPT SEL	O	Not used (open)
46	XWR	I	Not used (fixed at “H”)
47	493 DATA	O	Serial data output to the M62493FP (IC101)
48	493 CLK	O	Serial data transfer clock signal output to the M62493FP (IC101)
49	ST MUTE	O	Tuner muting control signal output to the tuner pack “H”: muting on
50	STEREO	I	FM stereo detection signal input from the tuner pack “L”: stereo
51	TUNED	I	Tuning detection signal input from the tuner pack “L”: tuned
52	ST CE	O	PLL chip enable signal output to the tuner pack
53	ST DOUT	O	PLL serial data output to the tuner pack
54	ST DIN	I	PLL serial data input from the tuner pack
55	ST CLK	O	PLL serial data transfer clock signal output to the tuner pack
56	VC BYPASS	O	Virtual cinema bypass control signal output terminal Not used (open)
57	PHONES DETECT	I	Connection detect signal input of the headphone jack (J701) “L”: no connected, “H”: headphone connected
58	LCD LAT	O	Serial data latch pulse output to the liquid crystal display unit (LCD601)
59	LCD A0	O	Address signal output to the liquid crystal display unit (LCD601)
60	<u>LCD RESET</u>	O	Reset signal output to the liquid crystal display unit (LCD601) “L”: reset
61	NC	O	Not used (open)
62	VCC	—	Power supply terminal (+5V)
63	NC	O	Not used (open)
64	VSS	—	Ground terminal
65 to 68	NC	O	Not used (open)
69	JOG B	I	Jog dial pulse input from the rotary encoder (S652 JOG) (B phase input)
70	JOG A	I	Jog dial pulse input from the rotary encoder (S652 JOG) (A phase input)
71	VOL B	I	Jog dial pulse input from the rotary encoder (S651 VOLUME) (B phase input)
72	VOL A	I	Jog dial pulse input from the rotary encoder (S651 VOLUME) (A phase input)
73 to 78	NC	O	Not used (open)
79	LED FUNCTION	O	LED drive signal output of the key illumination indicator (D643 to D648) “H”: LED on
80	LED POWER	O	LED drive signal output of the I/ⓘ indicator (D638) “H”: LED on
81	LED TIMER	O	LED drive signal output of the TIMER indicator (D637) “H”: LED on (Used for the US, Canadian, AEP and UK models only)
82	LED LCD	O	LED drive signal output of the liquid crystal display back light indicator (D639 to D642) “H”: LED on
83	LED ENTER	O	LED drive signal output of the ENTER indicator (D636) “H”: LED on
84	LED JOG	O	LED drive signal output terminal Not used (open)
85	LED CINEMA	O	LED drive signal output terminal Not used (open)
86	LED DOLBY	O	LED drive signal output of the PRO LOGIC indicator (D633) “H”: LED on (Used for the STR-NX3 only)

Pin No.	Pin Name	I/O	Description
87	LED 5.1CH	O	LED drive signal output of the DVD 5.1CH indicator (D632) “H”: LED on (Used for the STR-NX3 only)
88	LED GROOVE	O	LED drive signal output of the GROOVE indicator (D631) “H”: LED on
89	BPF 1	I	Spectrum analyzer drive (low frequency) signal input from the spectrum analyzer band-pass filter (IC401) (for 100 Hz)
90	BPF 2	I	Spectrum analyzer drive (low and middle frequency) signal input from the spectrum analyzer band-pass filter (IC401) (for 400 Hz)
91	BPF 3	I	Spectrum analyzer drive (middle and high frequency) signal input from the spectrum analyzer band-pass filter (IC401) (for 2 kHz)
92	BPF 4	I	Spectrum analyzer drive (high frequency) signal input from the spectrum analyzer band-pass filter (IC401) (for 6 kHz)
93	KEY1	I	Key input terminal (A/D input) S615 to S617, S619 to S624 (TUNER BAND, STEREO/MONO, TUNER MEMORY, GROOVE, + ►►, – ◄◄, ENTER, DVD 5.1CH, PRO LOGIC) keys input (S623 DVD 5.1CH, S624 PRO LOGIC keys: used for the STR-NX3 only)
94	KEY0	I	Key input terminal (A/D input) S601 to S614 (I/⏻, DISPLAY, POWER SAVE/DEMO (STANDBY), VIDEO/DVD, MD, TAPE, CD, TUNER, DSB, DBFB, PLAY MODE, REPEAT, EDIT, FILE SELECT) keys input
95	MODEL-IN	I	Destination setting terminal
96	AVSS	—	Ground terminal (for A/D conversion)
97	SPEC-IN	I	Setting terminal for the version
98	VREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
99	AVCC	—	Power supply terminal (+5V) (for A/D conversion)
100	POWER	O	Power on/off control signal output terminal “L”: standby mode, “H”: power on

SECTION 6 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.

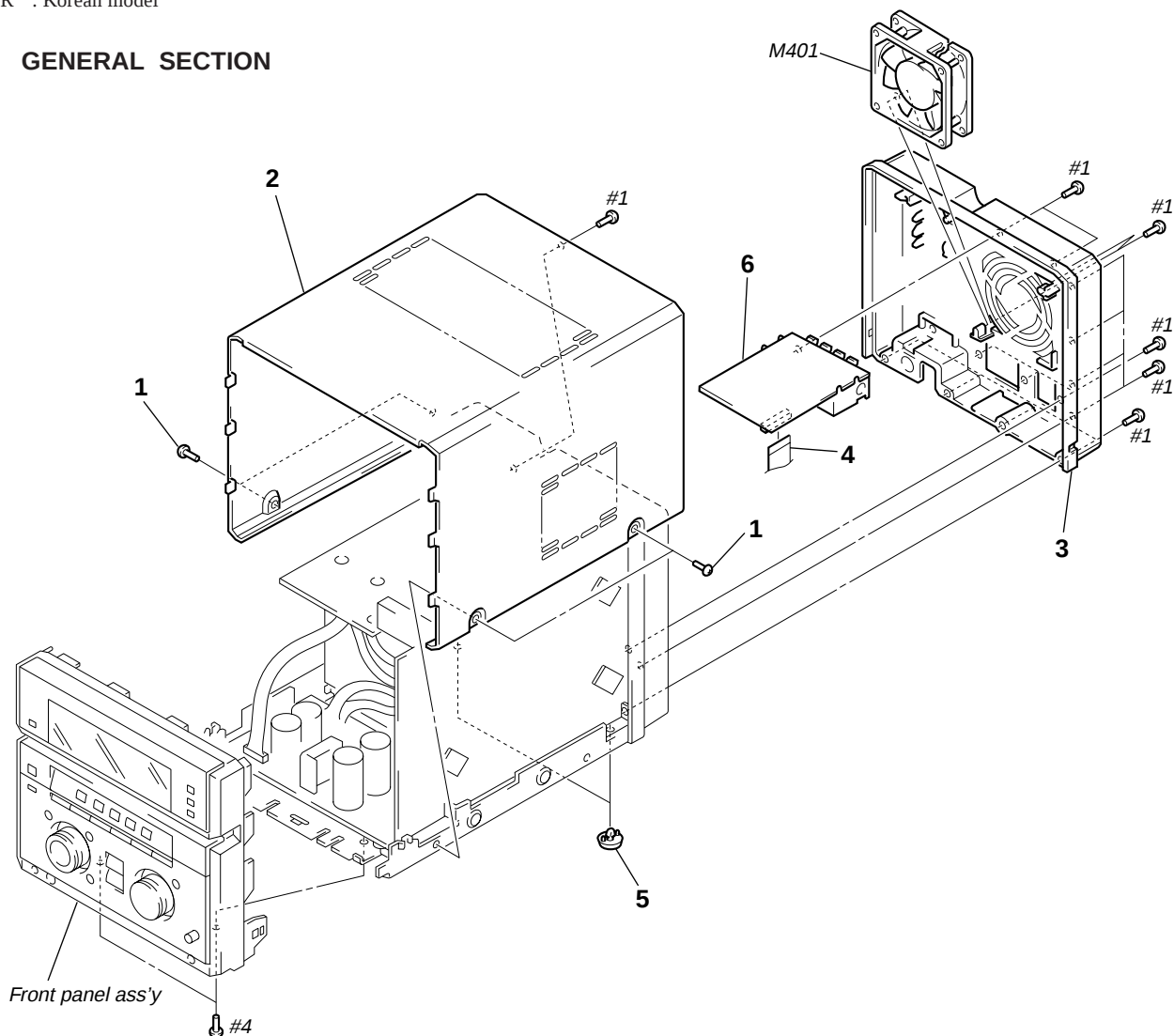
- The mechanical parts with no reference number in the exploded views are not supplied.

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

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

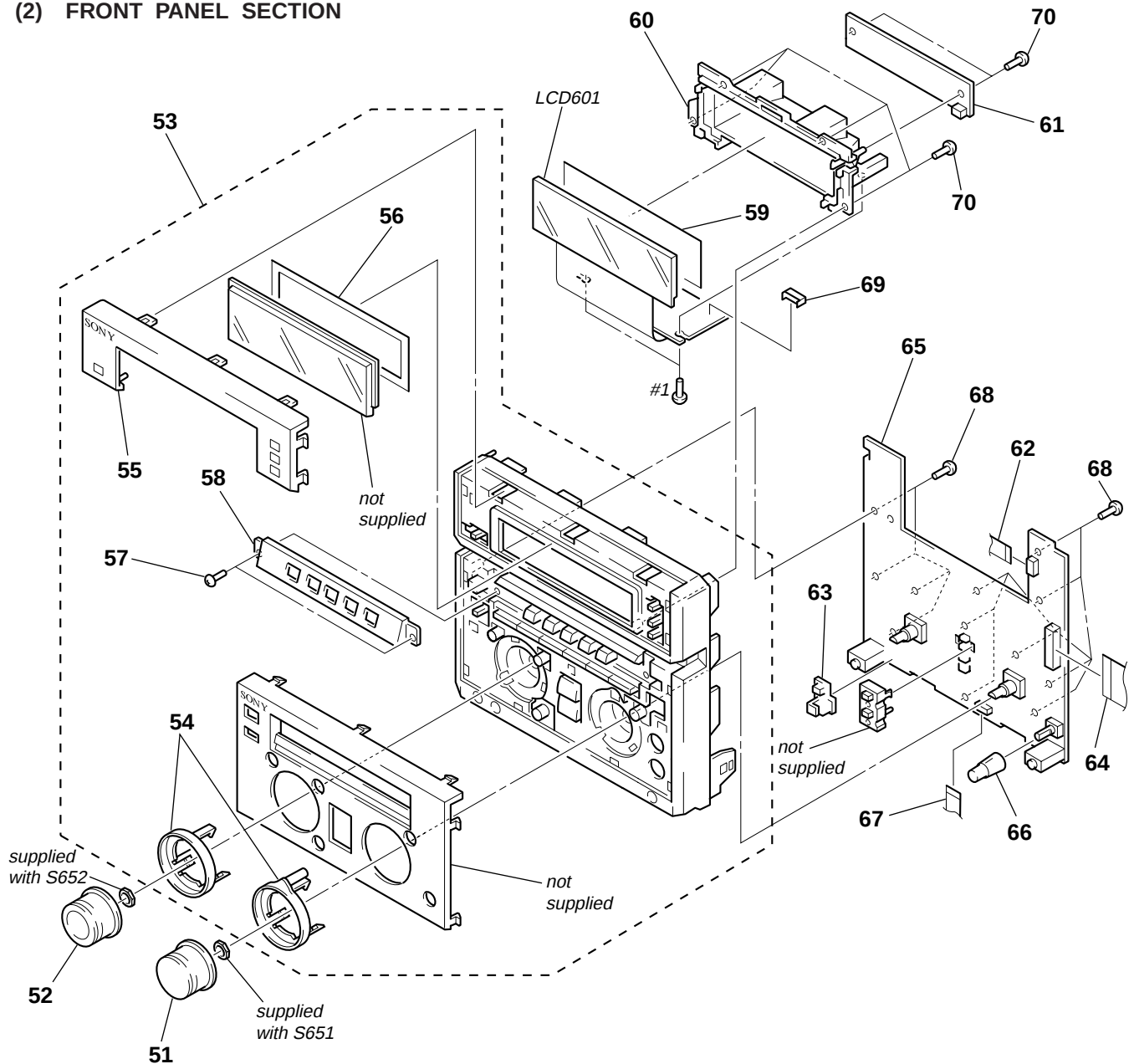
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(1) GENERAL SECTION



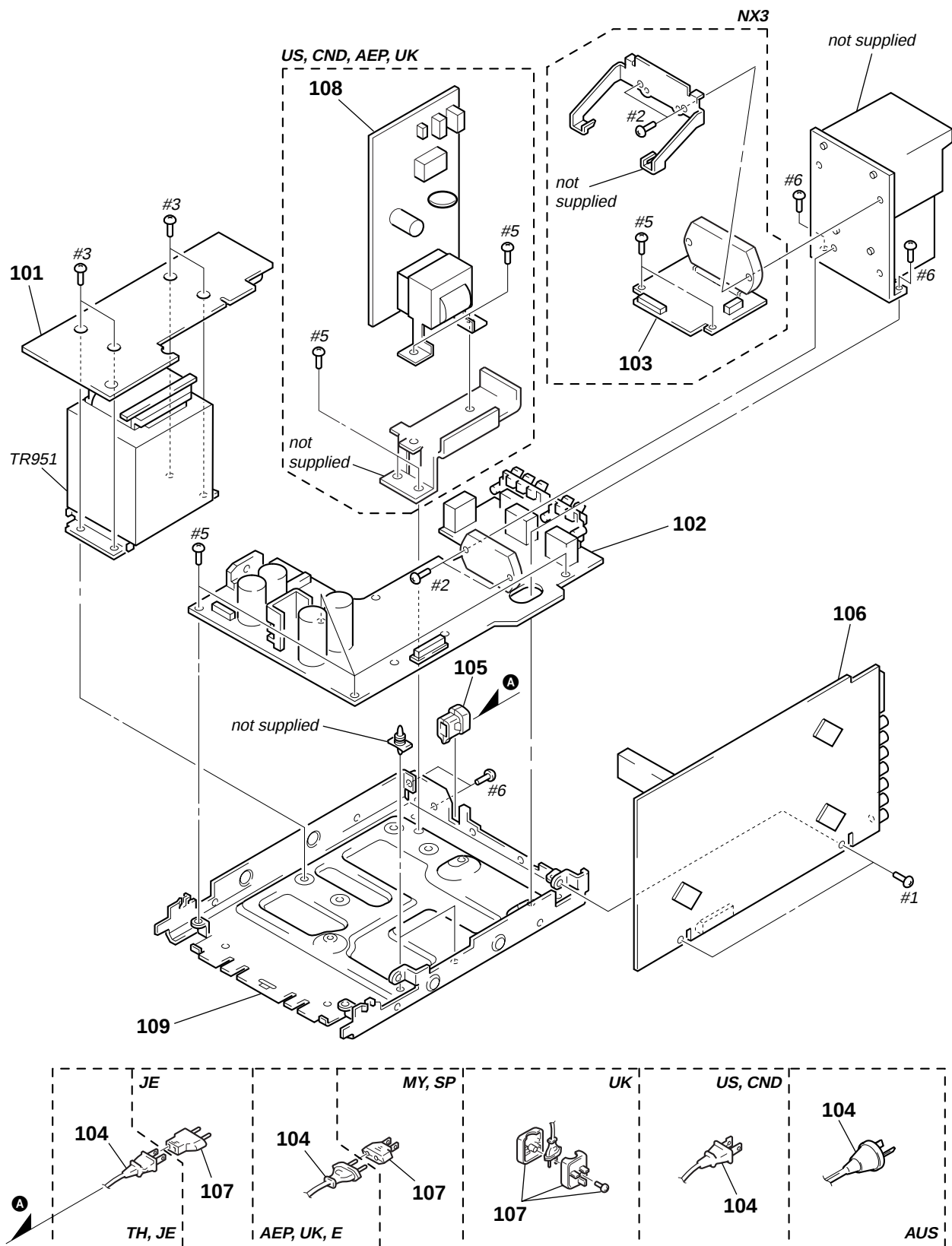
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-363-099-11	SCREW (CASE 3 TP2)		4	1-773-011-11	WIRE (FLAT TYPE) (15 CORE)	
2	4-221-365-11	CASE				(AEP, UK, MY, SP, JE)	
3	X-4952-291-1	PANEL ASSY, BACK (NX1: AEP, UK, KR)		5	4-965-822-01	FOOT	
3	X-4952-292-1	PANEL ASSY, BACK (NX1: US, CND)		6	1-233-545-11	TUNER PACK (FM/AM) (NX1: TH, KR/NX3: KR, AUS)	
3	X-4952-293-1	PANEL ASSY, BACK (NX1: MY, SP, JE)		6	1-233-546-11	TUNER PACK (FM/MW/SW) (MY, SP)	
3	X-4952-294-1	PANEL ASSY, BACK (NX3: AEP, UK)		6	1-693-443-11	TUNER PACK (FM/AM) (AEP, UK)	
3	X-4952-295-1	PANEL ASSY, BACK (NX3: US, CND)		6	1-693-445-11	TUNER PACK (FM/AM) (US, CND)	
3	X-4952-296-1	PANEL ASSY, BACK (NX3: MY, SP)		6	1-693-465-11	TUNER PACK (FM/MW/SW) (NX1: JE)	
3	X-4952-355-1	PANEL ASSY, BACK (NX1: TH, KR)		M401	1-763-117-11	FAN, DC	
3	X-4952-356-1	PANEL ASSY, BACK (NX3: AUS, KR)					
4	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)					
		(NX1: US, CND, TH, KR/NX3: US, CND, KR, AUS)					

(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-4951-814-1	KNOB (VOL) ASSY		60	4-221-369-01	HOLDER	
52	X-4951-831-1	JOG ASSY, KNOB		61	1-674-798-11	BACK LIGHT BOARD	
53	X-4951-812-1	PANEL ASSY, FRONT (NX1: AEP, UK)		62	1-769-908-11	WIRE (FLAT TYPE) (9 CORE)	
53	X-4951-815-1	PANEL ASSY, FRONT (NX1: E, JE)		* 63	1-675-197-11	R BOARD	
53	X-4951-816-1	PANEL ASSY, FRONT (NX3: E, AUS)		64	1-773-213-11	WIRE (FLAT TYPE) (25 CORE)	
53	X-4951-817-1	PANEL ASSY, FRONT (NX3: AEP, UK)		65	A-4426-226-A	PANEL BOARD, COMPLETE (NX1: US, CND, AEP, UK)	
53	X-4951-972-1	PANEL ASSY, FRONT (NX1: US, CND)		65	A-4426-249-A	PANEL BOARD, COMPLETE (NX1: MY, SP, KR, JE)	
53	X-4951-973-1	PANEL ASSY, FRONT (NX3: US, CND)		65	A-4426-258-A	PANEL BOARD, COMPLETE (NX3: US, CND, AEP, UK)	
54	4-221-378-01	RING		65	A-4426-275-A	PANEL BOARD, COMPLETE (NX3: E, AUS)	
55	4-221-380-01	PANEL (ST) (NX1: US, CND, AEP, UK)		65	A-4426-927-A	PANEL BOARD, COMPLETE (NX1: TH)	
55	4-221-380-11	PANEL (ST) (NX1: E, JE)		66	4-221-363-01	KNOB, MICROPHONE	
55	4-221-380-21	PANEL (ST) (NX3: US, CND, AEP, UK)		67	1-769-886-11	WIRE (FLAT TYPE) (7 CORE)	
55	4-221-380-31	PANEL (ST) (NX3: E, AUS)		68	4-951-620-01	SCREW (2.6X8), +BVTP	
56	4-224-207-01	TAPE (WINDOW STR), ADHESIVE		69	1-784-731-11	CONNECTOR, FFC 9P	
57	4-951-620-01	SCREW (2.6X8), +BVTP		70	4-951-620-01	SCREW (2.6X8), +BVTP	
58	4-221-377-01	PLATE (TA-HL), ORNAMENTAL (NX1)					
58	4-221-377-11	PLATE (TA-HL), ORNAMENTAL (NX3)					
59	4-221-370-01	SHEET, DIFFUSION					
				LCD601	1-803-738-11	LIQUID CRYSTAL DISPLAY UNIT	

(3) CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	1-674-803-11	TRANS BOARD		106	A-4426-230-A	MAIN BOARD, COMPLETE (NX1: AEP, UK)	
102	A-4426-238-A	PA BOARD, COMPLETE (NX1: AEP, UK)		106	A-4426-242-A	MAIN BOARD, COMPLETE (NX1: US, CND)	
102	A-4426-246-A	PA BOARD, COMPLETE (NX1: US, CND)		106	A-4426-251-A	MAIN BOARD, COMPLETE (NX1: MY, SP)	
102	A-4426-255-A	PA BOARD, COMPLETE (NX1: MY, SP, KR, JE)		106	A-4426-261-A	MAIN BOARD, COMPLETE (NX3: AEP, UK)	
102	A-4426-266-A	PA BOARD, COMPLETE (NX3: AEP, UK)		106	A-4426-269-A	MAIN BOARD, COMPLETE (NX3: US, CND)	
102	A-4426-272-A	PA BOARD, COMPLETE (NX3: US, CND)		106	A-4426-277-A	MAIN BOARD, COMPLETE (NX3: MY, SP)	
102	A-4426-281-A	PA BOARD, COMPLETE (NX3: E, AUS)		106	A-4426-527-A	MAIN BOARD, COMPLETE (NX3: KR, AUS)	
102	A-4426-938-A	PA BOARD, COMPLETE (NX1: TH)		106	A-4426-556-A	MAIN BOARD, COMPLETE (NX1: JE)	
103	A-4426-260-A	SURROUND AMP BOARD, COMPLETE (NX3)		106	A-4426-559-A	MAIN BOARD, COMPLETE (NX1: KR)	
△ 104	1-575-651-11	CORD, POWER (NX3: MY, SP)		106	A-4426-931-A	MAIN BOARD, COMPLETE (NX1: TH)	
△ 104	1-575-651-21	CORD, POWER (NX1: AEP, UK, MY, SP/NX3: AEP, UK)		△ 107	1-569-007-11	ADAPTOR, CONVERSION 2P (JE)	
△ 104	1-575-653-11	CORD, POWER (NX1: TH)		△ 107	1-569-008-21	ADAPTOR, CONVERSION 2P (MY, SP)	
△ 104	1-690-608-11	CORD, POWER (NX3: AUS)		△ 107	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	
△ 104	1-690-609-21	CORD, POWER (CND)		108	1-674-801-11	SUB TRANS BOARD (US, CND, AEP, UK)	
△ 104	1-769-079-21	CORD, POWER (KR)		109	4-221-364-01	CHASSIS	
△ 104	1-775-789-21	CORD, POWER (JE)		△ T951	1-433-993-11	TRANSFORMER, POWER (NX1: E, JE)	
△ 104	1-783-531-31	CORD, POWER (US)		△ T951	1-433-994-11	TRANSFORMER, POWER (NX1: AEP, UK)	
* 105	3-703-244-00	BUSHING (2104), CORD (US, CND, AEP, UK, KR, MY, SP, AUS)		△ T951	1-433-995-11	TRANSFORMER, POWER (NX1: US, CND)	
105	3-703-571-11	BUSHING (S) (4516), CORD (TH, JE)		△ T951	1-433-996-11	TRANSFORMER, POWER (NX3: E, AUS)	
				△ T951	1-433-997-11	TRANSFORMER, POWER (NX3: AEP, UK)	
				△ T951	1-433-998-11	TRANSFORMER, POWER (NX3: US, CND)	

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.

SECTION 7 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
AUS : Australian model KR : Korean model
CND : Canadian model MY : Malaysia model
JE : Tourist model SP : Singapore 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
	1-674-798-11	BACK LIGHT BOARD *****		C114	1-137-437-11	FILM 0.0056uF 5%	50V
		< CONNECTOR >		C115	1-136-159-00	FILM 0.033uF 5%	50V
CN605	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P		C116	1-137-365-11	FILM 0.0015uF 5%	50V
		< LED >		C117	1-136-153-00	FILM 0.01uF 5%	50V
				C118	1-162-288-31	CERAMIC 330PF 10%	50V
				C119	1-137-368-11	FILM 0.0047uF 5%	50V
				C120	1-137-367-11	FILM 0.0033uF 5%	50V
D639	8-719-076-15	LED SELS6B14C-TP6 (LCD BACK LIGHT)		C121	1-126-964-11	ELECT 10uF 20%	50V
D640	8-719-076-15	LED SELS6B14C-TP6 (LCD BACK LIGHT)		C122	1-162-291-31	CERAMIC 560PF 10%	50V
D641	8-719-076-15	LED SELS6B14C-TP6 (LCD BACK LIGHT)		C123	1-136-169-00	FILM 0.22uF 5%	50V
D642	8-719-076-15	LED SELS6B14C-TP6 (LCD BACK LIGHT)		C124	1-136-169-00	FILM 0.22uF 5%	50V
				C125	1-126-964-11	ELECT 10uF 20%	50V
		< TRANSISTOR >					
				C127	1-162-306-11	CERAMIC 0.01uF 30%	16V
Q639	8-729-900-36	TRANSISTOR BA1F4M-TP		C128	1-136-495-11	FILM 0.068uF 5%	50V
Q640	8-729-900-36	TRANSISTOR BA1F4M-TP		C131	1-104-664-11	ELECT 47uF 20%	16V
				C132	1-104-664-11	ELECT 47uF 20%	16V
		< RESISTOR >		C134	1-126-964-11	ELECT 10uF 20%	50V
R639	1-249-403-11	CARBON 68 5% 1/4W		C141	1-126-959-11	ELECT 0.47uF 20%	50V
R640	1-249-403-11	CARBON 68 5% 1/4W		C151	1-162-286-31	CERAMIC 220PF 10%	50V
R670	1-247-807-31	CARBON 100 5% 1/4W		C152	1-162-286-31	CERAMIC 220PF 10%	50V
*****				C153	1-162-286-31	CERAMIC 220PF 10%	50V
				C161	1-137-195-11	FILM 0.56uF 5%	50V
	A-4426-230-A	MAIN BOARD, COMPLETE (NX1: AEP, UK)					
	A-4426-242-A	MAIN BOARD, COMPLETE (NX1: US, CND)		C162	1-136-158-00	FILM 0.027uF 5%	50V
	A-4426-251-A	MAIN BOARD, COMPLETE (NX1: MY, SP)		C163	1-136-167-00	FILM 0.15uF 5%	50V
	A-4426-261-A	MAIN BOARD, COMPLETE (NX3: AEP, UK)		C164	1-137-437-11	FILM 0.0056uF 5%	50V
	A-4426-269-A	MAIN BOARD, COMPLETE (NX3: US, CND)		C165	1-136-159-00	FILM 0.033uF 5%	50V
				C166	1-137-365-11	FILM 0.0015uF 5%	50V
	A-4426-277-A	MAIN BOARD, COMPLETE (NX3: MY, SP)					
	A-4426-527-A	MAIN BOARD, COMPLETE (NX3: KR, AUS)		C167	1-136-153-00	FILM 0.01uF 5%	50V
	A-4426-556-A	MAIN BOARD, COMPLETE (NX1: JE)		C168	1-162-288-31	CERAMIC 330PF 10%	50V
	A-4426-559-A	MAIN BOARD, COMPLETE (NX1: KR)		C169	1-137-368-11	FILM 0.0047uF 5%	50V
	A-4426-931-A	MAIN BOARD, COMPLETE (NX1: TH)		C170	1-137-367-11	FILM 0.0033uF 5%	50V
		*****		C171	1-126-964-11	ELECT 10uF 20%	50V
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S		C172	1-162-291-31	CERAMIC 560PF 10%	50V
				C173	1-136-169-00	FILM 0.22uF 5%	50V
		< CAPACITOR >		C174	1-136-169-00	FILM 0.22uF 5%	50V
				C175	1-126-964-11	ELECT 10uF 20%	50V
C101	1-162-286-31	CERAMIC 220PF 10% 50V		C191	1-162-286-31	CERAMIC 220PF 10%	50V
C102	1-162-286-31	CERAMIC 220PF 10% 50V					
C103	1-162-286-31	CERAMIC 220PF 10% 50V		C201	1-126-964-11	ELECT 10uF 20%	50V
C104	1-164-159-11	CERAMIC 0.1uF 50V					(NX3)
C105	1-164-159-11	CERAMIC 0.1uF 50V		C202	1-126-964-11	ELECT 10uF 20%	50V
		(US, CND, AEP, UK)					(NX3)
C111	1-137-195-11	FILM 0.56uF 5% 50V		C204	1-124-465-00	ELECT 0.47uF 20%	50V
C112	1-136-158-00	FILM 0.027uF 5% 50V					(NX3)
C113	1-136-167-00	FILM 0.15uF 5% 50V					

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
C207	1-136-165-00	FILM	0.1uF	5%	50V	(NX3)	C252	1-136-165-00	FILM	0.1uF	5%	50V	(NX3)
C208	1-136-165-00	FILM	0.1uF	5%	50V	(NX3)	C253	1-136-161-00	FILM	0.047uF	5%	50V	(NX3)
C210	1-124-465-00	ELECT	0.47uF	20%	50V	(NX3)	C254	1-136-161-00	FILM	0.047uF	5%	50V	(NX3)
C212	1-124-465-00	ELECT	0.47uF	20%	50V	(NX3)	C255	1-136-165-00	FILM	0.1uF	5%	50V	(NX3)
C215	1-124-465-00	ELECT	0.47uF	20%	50V	(NX3)	C256	1-136-165-00	FILM	0.1uF	5%	50V	(NX3)
C217	1-124-465-00	ELECT	0.47uF	20%	50V	(NX3)	C257	1-136-157-00	FILM	0.022uF	5%	50V	(NX3)
C218	1-136-165-00	FILM	0.1uF	5%	50V	(NX3)	C258	1-136-157-00	FILM	0.022uF	5%	50V	(NX3)
C219	1-164-159-11	CERAMIC	0.1uF		50V	(NX3)	C259	1-136-165-00	FILM	0.1uF	5%	50V	(NX3)
C221	1-126-964-11	ELECT	10uF	20%	50V	(NX3)	C260	1-136-357-11	FILM	680PF	5%	50V	(NX3)
C224	1-162-282-31	CERAMIC	100PF	10%	50V	(NX3)	C261	1-136-153-00	FILM	0.01uF	5%	50V	(NX3)
C225	1-162-306-11	CERAMIC	0.01uF	30%	16V	(NX3)	C262	1-136-357-11	FILM	680PF	5%	50V	(NX3)
C226	1-126-160-11	ELECT	1uF	20%	50V	(NX3)	C263	1-136-153-00	FILM	0.01uF	5%	50V	(NX3)
C227	1-164-159-11	CERAMIC	0.1uF		50V	(NX3)	C264	1-136-153-00	FILM	0.01uF	5%	50V	(NX3)
C228	1-137-368-11	FILM	0.0047uF	5%	50V	(NX3)	C265	1-136-153-00	FILM	0.01uF	5%	50V	(NX3)
C229	1-130-471-00	MYLAR	0.001uF	5%	50V	(NX3)	C266	1-104-664-11	ELECT	47uF	20%	16V	(NX3)
C231	1-136-165-00	FILM	0.1uF	5%	50V	(NX3)	C267	1-130-481-00	MYLAR	0.0068uF	5%	50V	(NX3)
C233	1-136-169-00	FILM	0.22uF	5%	50V	(NX3)	C268	1-126-963-11	ELECT	4.7uF	20%	50V	(NX3)
C234	1-136-169-00	FILM	0.22uF	5%	50V	(NX3)	C269	1-126-934-11	ELECT	220uF	20%	16V	(NX3)
C235	1-136-165-00	FILM	0.1uF	5%	50V	(NX3)	C270	1-126-934-11	ELECT	220uF	20%	16V	(NX3)
C237	1-137-368-11	FILM	0.0047uF	5%	50V	(NX3)	C274	1-126-964-11	ELECT	10uF	20%	50V	(NX3)
C238	1-130-471-00	MYLAR	0.001uF	5%	50V	(NX3)	C275	1-126-964-11	ELECT	10uF	20%	50V	(NX3)
C240	1-126-160-11	ELECT	1uF	20%	50V	(NX3)	C276	1-126-964-11	ELECT	10uF	20%	50V	(NX3)
C243	1-137-437-11	FILM	0.0056uF	5%	50V	(NX3)	C277	1-126-964-11	ELECT	10uF	20%	50V	(NX3)
C244	1-136-161-00	FILM	0.047uF	5%	50V	(NX3)	C278	1-126-964-11	ELECT	10uF	20%	50V	(NX3)
C245	1-136-175-00	FILM	0.68uF	5%	50V	(NX3)	C279	1-126-964-11	ELECT	10uF	20%	50V	(NX3)
C246	1-136-169-00	FILM	0.22uF	5%	50V	(NX3)	C280	1-126-964-11	ELECT	10uF	20%	50V	
C247	1-136-169-00	FILM	0.22uF	5%	50V	(NX3)	C281	1-162-286-31	CERAMIC	220PF	10%	50V	(NX3)
C248	1-126-963-11	ELECT	4.7uF	20%	50V	(NX3)	C282	1-162-286-31	CERAMIC	220PF	10%	50V	(NX3)
C249	1-126-963-11	ELECT	4.7uF	20%	50V	(NX3)	C283	1-162-286-31	CERAMIC	220PF	10%	50V	(NX3)
C250	1-136-169-00	FILM	0.22uF	5%	50V	(NX3)	C284	1-124-465-00	ELECT	0.47uF	20%	50V	(NX3)
C251	1-136-169-00	FILM	0.22uF	5%	50V	(NX3)	C285	1-124-465-00	ELECT	0.47uF	20%	50V	(NX3)

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark
C291	1-162-286-31	CERAMIC	220PF	10%	50V (NX3)	* CN111	1-564-506-11	PLUG, CONNECTOR 3P	
C292	1-162-286-31	CERAMIC	220PF	10%	50V (NX3)	CN121	1-784-774-11	CONNECTOR, FFC 13P	(US, CND, TH, KR, AUS)
C293	1-162-286-31	CERAMIC	220PF	10%	50V (NX3)	CN121	1-784-776-11	CONNECTOR, FFC 15P (AEP, UK, MY, SP, JE)	
C294	1-124-465-00	ELECT	0.47uF	20%	50V (NX3)	CN131	1-784-786-11	CONNECTOR, FFC 25P	
C420	1-110-518-91	ELECT	10uF	20%	100V	CN132	1-568-826-11	CONNECTOR, FFC 7P	
C421	1-107-717-11	ELECT	47uF	20%	50V	CN141	1-506-468-11	PIN, CONNECTOR 3P (US, CND, AEP, UK)	
C431	1-164-159-11	CERAMIC	0.1uF		50V	CN152	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P	
C432	1-126-963-11	ELECT	4.7uF	20%	50V	CN161	1-691-767-11	PLUG (MICRO CONNECTOR) 5P (NX3)	
C436	1-126-964-11	ELECT	10uF	20%	50V	* CN173	1-564-506-11	PLUG, CONNECTOR 3P	
C437	1-126-964-11	ELECT	10uF	20%	50V	* CN181	1-564-506-11	PLUG, CONNECTOR 3P	
								< DIODE >	
C438	1-162-303-11	CERAMIC	0.0033uF	30%	16V	D141	8-719-911-19	DIODE 1SS133T-72	
C439	1-126-964-11	ELECT	10uF	20%	50V	D216	8-719-911-19	DIODE 1SS133T-72 (NX3)	
C440	1-126-964-11	ELECT	10uF	20%	50V	D501	8-719-911-19	DIODE 1SS133T-72	
C441	1-126-963-11	ELECT	4.7uF	20%	50V	D502	8-719-911-19	DIODE 1SS133T-72	
C470	1-110-518-91	ELECT	10uF	20%	100V	D503	8-719-911-19	DIODE 1SS133T-72	
C501	1-126-964-11	ELECT	10uF	20%	50V	D504	8-719-911-19	DIODE 1SS133T-72	
C502	1-164-159-11	CERAMIC	0.1uF		50V	D505	8-719-911-19	DIODE 1SS133T-72	
C503	1-136-165-00	FILM	0.1uF	5%	50V	D506	8-719-911-19	DIODE 1SS133T-72	
C505	1-126-916-11	ELECT	1000uF	20%	6.3V	D507	8-719-911-19	DIODE 1SS133T-72	
C506	1-162-306-11	CERAMIC	0.01uF	30%	16V	D508	8-719-911-19	DIODE 1SS133T-72	
C507	1-107-713-11	ELECT	4.7uF	20%	35V	D510	8-719-911-19	DIODE 1SS133T-72 (US, CND, AEP, UK)	
C511	1-162-205-31	CERAMIC	18PF	5%	50V	D901	8-719-024-99	DIODE 11ES2-NTA2B	
C512	1-162-203-31	CERAMIC	15PF	5%	50V	D902	8-719-024-99	DIODE 11ES2-NTA2B	
C513	1-162-306-11	CERAMIC	0.01uF	30%	16V	D903	8-719-024-99	DIODE 11ES2-NTA2B	
C514	1-162-306-11	CERAMIC	0.01uF	30%	16V	D904	8-719-024-99	DIODE 11ES2-NTA2B	
C515	1-104-665-11	ELECT	100uF	20%	25V	D905	8-719-911-19	DIODE 1SS133T-72	
C521	1-104-665-11	ELECT	100uF	20%	10V	D906	8-719-921-48	DIODE MTZJ-T-72-5.6C	
C522	1-162-306-11	CERAMIC	0.01uF	30%	16V	D914	8-719-911-19	DIODE 1SS133T-72 (E, AUS, JE)	
C523	1-126-964-11	ELECT	10uF	20%	50V	D915	8-719-024-99	DIODE 11ES2-NTA2B (E, AUS, JE)	
C524	1-162-282-31	CERAMIC	100PF	10%	50V	D920	8-719-024-99	DIODE 11ES2-NTA2B	
C525	1-162-282-31	CERAMIC	100PF	10%	50V	D921	8-719-110-23	DIODE MTZJ-T-72-11C	
C901	1-136-165-00	FILM	0.1uF	5%	50V	D922	8-719-024-99	DIODE 11ES2-NTA2B (NX3)	
C902	1-126-936-11	ELECT	3300uF	20%	16V	D923	8-719-024-99	DIODE 11ES2-NTA2B (NX3)	
C903	1-126-934-11	ELECT	220uF	20%	16V	D924	8-719-024-99	DIODE 11ES2-NTA2B (NX3)	
C904	1-126-924-11	ELECT	330uF	20%	10V	D925	8-719-024-99	DIODE 11ES2-NTA2B	
C905	1-104-664-11	ELECT	47uF	20%	16V	D931	8-719-911-19	DIODE 1SS133T-72	
C908	1-126-964-11	ELECT	10uF	20%	50V	D932	8-719-911-19	DIODE 1SS133T-72	
C909	1-126-916-11	ELECT	1000uF	20%	6.3V			< GROUND TERMINAL >	
C920	1-126-767-11	ELECT	1000uF	20%	16V	EP901	1-537-770-21	TERMINAL BOARD, GROUND	
C921	1-126-941-11	ELECT	470uF	20%	25V			< IC >	
C922	1-126-952-11	ELECT	1000uF	20%	35V	IC101	8-759-571-54	IC M62493FP	
C923	1-164-159-11	CERAMIC	0.1uF		50V	IC201	8-759-571-51	IC M62464FP (NX3)	
C924	1-104-664-11	ELECT	47uF	20%	16V	IC401	8-759-083-77	IC BA3830F	
C926	1-126-916-11	ELECT	1000uF	20%	6.3V	IC501	8-759-597-56	IC M30622MA-A12FP	
C927	1-126-933-11	ELECT	100uF	20%	16V	IC502	8-759-635-63	IC M51943BSL-TP	
C931	1-126-961-11	ELECT	2.2uF	20%	50V	IC901	8-759-231-53	IC M5F7805L	
C941	1-164-159-11	CERAMIC	0.1uF		50V (US, CND, AEP, UK)	IC921	8-759-231-58	IC M5F7812L	
C951	1-136-165-00	FILM	0.1uF	5%	50V			< JACK >	
C952	1-126-768-11	ELECT	2200uF	20%	16V	J101	1-784-275-11	JACK, PIN 6P (VIDEO (AUDIO) IN, MD IN, MD OUT)	
C953	1-126-934-11	ELECT	220uF	20%	16V				
C954	1-126-924-11	ELECT	330uF	20%	10V				
		< CONNECTOR >							
CN101	1-793-351-11	SOCKET, CONNECTOR 19P							

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
J102	1-785-009-11	JACK, PIN 6P (DVD 5.1CH INPUT: FRONT, REAR, CENTER, WOOFER) (NX3)					R122	1-249-421-11	CARBON	2.2K	5%	1/4W	
J191	1-774-785-11	JACK, PIN 1P (SUPER WOOFER OUT)					R123	1-249-441-11	CARBON	100K	5%	1/4W	
		< COIL >					R124	1-249-429-11	CARBON	10K	5%	1/4W	
L436	1-410-517-11	INDUCTOR	47uH				R125	1-247-843-11	CARBON	3.3K	5%	1/4W	
L501	1-410-509-11	INDUCTOR	10uH				R126	1-249-421-11	CARBON	2.2K	5%	1/4W	
		< TRANSISTOR >					R128	1-247-903-00	CARBON	1M	5%	1/4W	
Q112	8-729-119-78	TRANSISTOR	2SC2785TP-HFE				R131	1-247-807-31	CARBON	100	5%	1/4W	
Q113	8-729-119-78	TRANSISTOR	2SC2785TP-HFE				R132	1-247-807-31	CARBON	100	5%	1/4W	
Q114	8-729-141-30	TRANSISTOR	2SC3623ATP-LK				R133	1-247-807-31	CARBON	100	5%	1/4W	
Q162	8-729-119-78	TRANSISTOR	2SC2785TP-HFE				R141	1-249-433-11	CARBON	22K	5%	1/4W	
Q163	8-729-119-78	TRANSISTOR	2SC2785TP-HFE				R142	1-249-433-11	CARBON	22K	5%	1/4W	
Q164	8-729-141-30	TRANSISTOR	2SC3623ATP-LK				R143	1-249-417-11	CARBON	1K	5%	1/4W	
Q191	8-729-141-30	TRANSISTOR	2SC3623ATP-LK				R144	1-249-441-11	CARBON	100K	5%	1/4W	
Q281	8-729-141-30	TRANSISTOR	2SC3623ATP-LK (NX3)				R145	1-247-903-00	CARBON	1M	5%	1/4W	
Q282	8-729-141-30	TRANSISTOR	2SC3623ATP-LK (NX3)				R151	1-249-417-11	CARBON	1K	5%	1/4W	
Q291	8-729-141-30	TRANSISTOR	2SC3623ATP-LK (NX3)				R152	1-249-417-11	CARBON	1K	5%	1/4W	
Q411	8-729-141-30	TRANSISTOR	2SC3623ATP-LK				R153	1-249-417-11	CARBON	1K	5%	1/4W	
Q421	8-729-900-63	TRANSISTOR	BN1F4M-TP				R154	1-247-807-31	CARBON	100	5%	1/4W	
Q431	8-729-111-29	TRANSISTOR	2SD1616-TP-LK				R155	1-247-807-31	CARBON	100	5%	1/4W	
Q432	8-729-119-76	TRANSISTOR	2SA1175TP-HFE				R156	1-247-807-31	CARBON	100	5%	1/4W	
Q461	8-729-141-30	TRANSISTOR	2SC3623ATP-LK				R161	1-249-421-11	CARBON	2.2K	5%	1/4W	
Q501	8-729-119-78	TRANSISTOR	2SC2785TP-HFE				R162	1-249-429-11	CARBON	10K	5%	1/4W	
Q502	8-729-900-63	TRANSISTOR	BN1F4M-TP				R164	1-247-895-00	CARBON	470K	5%	1/4W	
Q503	8-729-900-63	TRANSISTOR	BN1F4M-TP				R165	1-247-899-11	CARBON	680K	5%	1/4W	
Q901	8-729-209-15	TRANSISTOR	2SD2012				R167	1-249-414-11	CARBON	560	5%	1/4W	
Q902	8-729-119-78	TRANSISTOR	2SC2785TP-HFE				R168	1-249-429-11	CARBON	10K	5%	1/4W	
Q903	8-729-119-78	TRANSISTOR	2SC2785TP-HFE				R169	1-249-438-11	CARBON	56K	5%	1/4W	
Q904	8-729-900-36	TRANSISTOR	BA1F4M-TP				R170	1-249-429-11	CARBON	10K	5%	1/4W	
Q905	8-729-900-36	TRANSISTOR	BA1F4M-TP				R171	1-249-437-11	CARBON	47K	5%	1/4W	
Q906	8-729-040-20	TRANSISTOR	RT1P137L-TP				R172	1-249-421-11	CARBON	2.2K	5%	1/4W	
Q907	8-729-900-36	TRANSISTOR	BA1F4M-TP				R173	1-249-441-11	CARBON	100K	5%	1/4W	
Q921	8-729-026-68	TRANSISTOR	2SD2525 (TP)				R174	1-249-429-11	CARBON	10K	5%	1/4W	
Q923	8-729-040-20	TRANSISTOR	RT1P137L-TP (NX3)				R178	1-247-903-00	CARBON	1M	5%	1/4W	
Q924	8-729-900-36	TRANSISTOR	BA1F4M-TP (NX3)				R191	1-249-417-11	CARBON	1K	5%	1/4W	
Q951	8-729-141-83	TRANSISTOR	2SB1375				R192	1-249-441-11	CARBON	100K	5%	1/4W	
Q952	8-729-119-76	TRANSISTOR	2SA1175TP-HFE				R193	1-249-417-11	CARBON	1K	5%	1/4W	
Q953	8-729-119-76	TRANSISTOR	2SA1175TP-HFE				R194	1-249-429-11	CARBON	10K	5%	1/4W	
		< RESISTOR >					R201	1-249-441-11	CARBON	100K	5%	1/4W	(NX3)
R101	1-249-417-11	CARBON	1K	5%	1/4W		R202	1-249-441-11	CARBON	100K	5%	1/4W	(NX3)
R102	1-249-417-11	CARBON	1K	5%	1/4W		R222	1-249-417-11	CARBON	1K	5%	1/4W	(NX3)
R103	1-249-417-11	CARBON	1K	5%	1/4W		R223	1-249-417-11	CARBON	1K	5%	1/4W	(NX3)
R104	1-247-807-31	CARBON	100	5%	1/4W		R224	1-249-417-11	CARBON	1K	5%	1/4W	(NX3)
R105	1-247-807-31	CARBON	100	5%	1/4W		R245	1-247-891-00	CARBON	330K	5%	1/4W	(NX3)
R106	1-247-807-31	CARBON	100	5%	1/4W		R260	1-249-437-11	CARBON	47K	5%	1/4W	(NX3)
R111	1-249-421-11	CARBON	2.2K	5%	1/4W		R261	1-247-876-11	CARBON	75K	5%	1/4W	(NX3)
R112	1-249-429-11	CARBON	10K	5%	1/4W		R262	1-249-437-11	CARBON	47K	5%	1/4W	(NX3)
R114	1-247-895-00	CARBON	470K	5%	1/4W		R263	1-247-876-11	CARBON	75K	5%	1/4W	(NX3)
R115	1-247-899-11	CARBON	680K	5%	1/4W		R264	1-247-883-00	CARBON	150K	5%	1/4W	(NX3)
R117	1-249-414-11	CARBON	560	5%	1/4W								
R118	1-249-429-11	CARBON	10K	5%	1/4W								
R119	1-249-438-11	CARBON	56K	5%	1/4W								
R120	1-249-429-11	CARBON	10K	5%	1/4W								
R121	1-249-437-11	CARBON	47K	5%	1/4W								

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R265	1-247-883-00	CARBON	150K	5%	1/4W (NX3)	R418	1-260-089-11	CARBON	150	5%	1/2W (NX1: AEP, UK)
R267	1-249-441-11	CARBON	100K	5%	1/4W (NX3)	R418	1-260-090-11	CARBON	180	5%	1/2W (EXCEPT NX1: AEP, UK)
R271	1-249-441-11	CARBON	100K	5%	1/4W (NX3)	R431	1-249-421-11	CARBON	2.2K	5%	1/4W
R274	1-249-429-11	CARBON	10K	5%	1/4W (NX3)	R432	1-249-425-11	CARBON	4.7K	5%	1/4W
R275	1-249-429-11	CARBON	10K	5%	1/4W (NX3)	R433	1-249-441-11	CARBON	100K	5%	1/4W
R276	1-249-429-11	CARBON	10K	5%	1/4W (NX3)	R436	1-247-893-11	CARBON	390K	5%	1/4W
R277	1-249-429-11	CARBON	10K	5%	1/4W (NX3)	R437	1-247-893-11	CARBON	390K	5%	1/4W
R278	1-249-429-11	CARBON	10K	5%	1/4W (NX3)	R438	1-249-441-11	CARBON	100K	5%	1/4W
R279	1-249-429-11	CARBON	10K	5%	1/4W (NX3)	R439	1-249-440-11	CARBON	82K	5%	1/4W
R281	1-249-428-11	CARBON	8.2K	5%	1/4W (NX3)	R440	1-249-437-11	CARBON	47K	5%	1/4W
R282	1-249-427-11	CARBON	6.8K	5%	1/4W (NX3)	R441	1-249-441-11	CARBON	100K	5%	1/4W
R283	1-249-427-11	CARBON	6.8K	5%	1/4W (NX3)	R442	1-249-440-11	CARBON	82K	5%	1/4W
R284	1-249-421-11	CARBON	2.2K	5%	1/4W (NX3)	R443	1-249-420-11	CARBON	1.8K	5%	1/4W
R285	1-249-441-11	CARBON	100K	5%	1/4W (NX3)	R444	1-249-429-11	CARBON	10K	5%	1/4W
R286	1-249-429-11	CARBON	10K	5%	1/4W (NX3)	R445	1-249-441-11	CARBON	100K	5%	1/4W
R287	1-249-421-11	CARBON	2.2K	5%	1/4W (NX3)	R446	1-249-429-11	CARBON	10K	5%	1/4W
R288	1-249-441-11	CARBON	100K	5%	1/4W (NX3)	R447	1-249-435-11	CARBON	33K	5%	1/4W
R289	1-249-429-11	CARBON	10K	5%	1/4W (NX3)	R448	1-247-895-00	CARBON	470K	5%	1/4W
R291	1-249-428-11	CARBON	8.2K	5%	1/4W (NX3)	R461	1-260-089-11	CARBON	150	5%	1/2W (NX1: AEP, UK)
R292	1-249-427-11	CARBON	6.8K	5%	1/4W (NX3)	R461	1-260-090-11	CARBON	180	5%	1/2W (EXCEPT NX1: AEP, UK)
R293	1-249-427-11	CARBON	6.8K	5%	1/4W (NX3)	R462	1-260-089-11	CARBON	150	5%	1/2W (NX1: AEP, UK)
R294	1-249-421-11	CARBON	2.2K	5%	1/4W (NX3)	R462	1-260-090-11	CARBON	180	5%	1/2W (EXCEPT NX1: AEP, UK)
R295	1-249-441-11	CARBON	100K	5%	1/4W (NX3)	R463	1-260-084-11	CARBON	56	5%	1/2W
R296	1-249-429-11	CARBON	10K	5%	1/4W (NX3)	R464	1-249-417-11	CARBON	1K	5%	1/4W
R411	1-260-089-11	CARBON	150	5%	1/2W (NX1: AEP, UK)	R468	1-260-089-11	CARBON	150	5%	1/2W (NX1: AEP, UK)
R411	1-260-090-11	CARBON	180	5%	1/2W (EXCEPT NX1: AEP, UK)	R468	1-260-090-11	CARBON	180	5%	1/2W (EXCEPT NX1: AEP, UK)
R412	1-260-089-11	CARBON	150	5%	1/2W (NX1: AEP, UK)	R501	1-249-413-11	CARBON	470	5%	1/4W
R412	1-260-090-11	CARBON	180	5%	1/2W (EXCEPT NX1: AEP, UK)	R502	1-249-425-11	CARBON	4.7K	5%	1/4W
R413	1-260-084-11	CARBON	56	5%	1/2W	R503	1-249-437-11	CARBON	47K	5%	1/4W
R414	1-249-417-11	CARBON	1K	5%	1/4W	R504	1-249-437-11	CARBON	47K	5%	1/4W
R415	1-249-429-11	CARBON	10K	5%	1/4W	R505	1-249-429-11	CARBON	10K	5%	1/4W
R416	1-249-437-11	CARBON	47K	5%	1/4W	R506	1-249-409-11	CARBON	220	5%	1/4W
R417	1-249-417-11	CARBON	1K	5%	1/4W	R507	1-249-441-11	CARBON	100K	5%	1/4W
						R510	1-249-429-11	CARBON	10K	5%	1/4W
						R511	1-247-891-00	CARBON	330K	5%	1/4W
						R513	1-249-429-11	CARBON	10K	5%	1/4W
						R514	1-247-807-31	CARBON	100	5%	1/4W
						R515	1-249-425-11	CARBON	4.7K	5%	1/4W
						R516	1-249-429-11	CARBON	10K	5%	1/4W
						R517	1-247-807-31	CARBON	100	5%	1/4W
						R518	1-249-425-11	CARBON	4.7K	5%	1/4W
						R519	1-249-425-11	CARBON	4.7K	5%	1/4W
						R520	1-249-409-11	CARBON	220	5%	1/4W
						R521	1-249-409-11	CARBON	220	5%	1/4W
						R526	1-247-807-31	CARBON	100	5%	1/4W
						R527	1-247-807-31	CARBON	100	5%	1/4W
						R528	1-247-807-31	CARBON	100	5%	1/4W
						R529	1-247-807-31	CARBON	100	5%	1/4W
						R530	1-247-807-31	CARBON	100	5%	1/4W
						R531	1-247-807-31	CARBON	100	5%	1/4W
						R532	1-249-429-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R534	1-247-807-31	CARBON	100	5%	1/4W (US, CND, AEP, UK)	R901	1-247-843-11	CARBON	3.3K	5%	1/4W
R535	1-249-429-11	CARBON	10K	5%	1/4W	R902	1-249-415-11	CARBON	680	5%	1/4W
R536	1-249-417-11	CARBON	1K	5%	1/4W	R903	1-249-383-11	CARBON	1.5	5%	1/6W
						R905	1-249-419-11	CARBON	1.5K	5%	1/4W
R537	1-249-429-11	CARBON	10K	5%	1/4W	R906	1-249-414-11	CARBON	560	5%	1/4W
R538	1-247-807-31	CARBON	100	5%	1/4W						
R539	1-247-843-11	CARBON	3.3K	5%	1/4W	R907	1-249-425-11	CARBON	4.7K	5%	1/4W
R543	1-249-429-11	CARBON	10K	5%	1/4W	R908	1-249-429-11	CARBON	10K	5%	1/4W
R544	1-249-429-11	CARBON	10K	5%	1/4W	R909	1-249-430-11	CARBON	12K	5%	1/4W
						R910	1-249-429-11	CARBON	10K	5%	1/4W
R546	1-247-807-31	CARBON	100	5%	1/4W	R920	1-249-417-11	CARBON	1K	5%	1/4W
R547	1-247-807-31	CARBON	100	5%	1/4W						
R548	1-247-807-31	CARBON	100	5%	1/4W	R921	1-249-409-11	CARBON	220	5%	1/4W
R549	1-247-807-31	CARBON	100	5%	1/4W	R931	1-249-425-11	CARBON	4.7K	5%	1/4W
R550	1-247-807-31	CARBON	100	5%	1/4W	R932	1-249-425-11	CARBON	4.7K	5%	1/4W
						R933	1-249-433-11	CARBON	22K	5%	1/4W
R551	1-247-807-31	CARBON	100	5%	1/4W	R951	1-247-843-11	CARBON	3.3K	5%	1/4W
R552	1-249-429-11	CARBON	10K	5%	1/4W						
R553	1-247-807-31	CARBON	100	5%	1/4W	R952	1-249-415-11	CARBON	680	5%	1/4W
R554	1-247-807-31	CARBON	100	5%	1/4W	R953	1-249-383-11	CARBON	1.5	5%	1/6W
R555	1-247-807-31	CARBON	100	5%	1/4W						
						< VIBRATOR >					
R556	1-247-807-31	CARBON	100	5%	1/4W	X511	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
R557	1-247-807-31	CARBON	100	5%	1/4W	X512	1-781-107-21	VIBRATOR, SERAMIC (16MHz)			
R558	1-247-807-31	CARBON	100	5%	1/4W	*****					
R559	1-247-807-31	CARBON	100	5%	1/4W			A-4426-238-A PA BOARD, COMPLETE (NX1: AEP, UK)			
R561	1-247-807-31	CARBON	100	5%	1/4W			A-4426-246-A PA BOARD, COMPLETE (NX1: US, CND)			
								A-4426-255-A PA BOARD, COMPLETE (NX1: MY, SP, KR, JE)			
R562	1-247-807-31	CARBON	100	5%	1/4W			A-4426-266-A PA BOARD, COMPLETE (NX3: AEP, UK)			
R563	1-247-807-31	CARBON	100	5%	1/4W			A-4426-272-A PA BOARD, COMPLETE (NX3: US, CND)			
R566	1-247-807-31	CARBON	100	5%	1/4W						
R567	1-247-807-31	CARBON	100	5%	1/4W			A-4426-281-A PA BOARD, COMPLETE (NX3: E, AUS)			
R568	1-247-807-31	CARBON	100	5%	1/4W			A-4426-938-A PA BOARD, COMPLETE (NX1: TH)			

R570	1-247-807-31	CARBON	100	5%	1/4W			< CAPACITOR >			
R571	1-247-807-31	CARBON	100	5%	1/4W						
R572	1-247-807-31	CARBON	100	5%	1/4W						
R573	1-247-807-31	CARBON	100	5%	1/4W						
R574	1-249-429-11	CARBON	10K	5%	1/4W						
						C801	1-128-582-11	ELECT	10uF	20%	100V
R575	1-249-429-11	CARBON	10K	5%	1/4W	C802	1-162-292-31	CERAMIC	680PF	10%	50V
R581	1-249-425-11	CARBON	4.7K	5%	1/4W (NX3)	C803	1-162-286-31	CERAMIC	220PF	10%	50V
						C804	1-126-967-11	ELECT	47uF	20%	50V
R582	1-249-407-11	CARBON	150	5%	1/4W (NX3)	C806	1-128-560-11	ELECT	22uF	20%	100V
R582	1-249-417-11	CARBON	1K	5%	1/4W (NX1)	C807	1-128-582-11	ELECT	10uF	20%	100V
						C808	1-136-495-11	FILM	0.068uF	5%	50V
R583	1-249-415-11	CARBON	680	5%	1/4W (AEP, UK)	C809	1-136-495-11	FILM	0.068uF	5%	50V
						C810	1-136-165-00	FILM	0.1uF	5%	50V (AEP, UK)
R583	1-249-417-11	CARBON	1K	5%	1/4W (US, CND)	C811	1-136-165-00	FILM	0.1uF	5%	50V (AEP, UK)
R583	1-249-425-11	CARBON	4.7K	5%	1/4W (TH, KR, AUS, JE)	C812	1-161-494-00	CERAMIC	0.022uF		25V (AEP, UK)
R584	1-249-411-11	CARBON	330	5%	1/4W (TH, KR, AUS)						
R584	1-249-417-11	CARBON	1K	5%	1/4W (MY, SP, JE)	C821	1-128-562-11	ELECT	47uF	20%	100V
						C822	1-162-306-11	CERAMIC	0.01uF	30%	16V
R584	1-249-425-11	CARBON	4.7K	5%	1/4W (AEP, UK)	C823	1-162-294-31	CERAMIC	0.001uF	10%	50V
						C825	1-104-665-11	ELECT	100uF	20%	10V
R585	1-247-807-31	CARBON	100	5%	1/4W	C826	1-126-961-11	ELECT	2.2uF	20%	50V
R586	1-247-807-31	CARBON	100	5%	1/4W	C827	1-104-665-11	ELECT	100uF	20%	10V
R587	1-247-807-31	CARBON	100	5%	1/4W	C831	1-126-968-11	ELECT	100uF	20%	50V
R588	1-247-807-31	CARBON	100	5%	1/4W (AEP, UK)	C851	1-128-582-11	ELECT	10uF	20%	100V
						C852	1-162-292-31	CERAMIC	680PF	10%	50V
R589	1-247-807-31	CARBON	100	5%	1/4W (AEP, UK)	C853	1-162-286-31	CERAMIC	220PF	10%	50V
						C854	1-126-967-11	ELECT	47uF	20%	50V

Ref. No.	Part No.	Description	Remark		
C856	1-128-560-11	ELECT	22uF	20%	100V
C857	1-128-582-11	ELECT	10uF	20%	100V
C858	1-136-495-11	FILM	0.068uF	5%	50V
C859	1-136-495-11	FILM	0.068uF	5%	50V
C860	1-136-165-00	FILM	0.1uF	5%	50V (AEP, UK)
C861	1-136-165-00	FILM	0.1uF	5%	50V (AEP, UK)
C862	1-161-494-00	CERAMIC	0.022uF		25V (AEP, UK)
C871	1-136-165-00	FILM	0.1uF	5%	50V (NX3: AEP, UK)
C872	1-136-165-00	FILM	0.1uF	5%	50V (NX3: AEP, UK)
C873	1-136-165-00	FILM	0.1uF	5%	50V (NX3: AEP, UK)
C874	1-136-165-00	FILM	0.1uF	5%	50V (NX3: AEP, UK)
C875	1-136-165-00	FILM	0.1uF	5%	50V (NX3: AEP, UK)
C876	1-136-165-00	FILM	0.1uF	5%	50V (NX3: AEP, UK)
C877	1-161-494-00	CERAMIC	0.022uF		25V (NX3: AEP, UK)
C878	1-161-494-00	CERAMIC	0.022uF		25V (NX3: AEP, UK)
C879	1-161-494-00	CERAMIC	0.022uF		25V (NX3: AEP, UK)
C880	1-126-163-11	ELECT	4.7uF	20%	50V
C881	1-127-751-11	ELECT	3300uF	20%	50V (NX3: US, CND, AEP, UK)
C881	1-127-811-11	ELECT	3300uF	20%	50V (NX3: MY, SP, KR, AUS)
C882	1-127-751-11	ELECT	3300uF	20%	50V (NX3: US, CND, AEP, UK)
C882	1-127-811-11	ELECT	3300uF	20%	50V (NX3: MY, SP, KR, AUS)
C883	1-127-752-11	ELECT	3300uF	20%	63V (AEP, UK)
C883	1-127-753-11	ELECT	3300uF	20%	71V (US, CND)
C883	1-127-813-11	ELECT	3300uF	20%	71V (E, AUS, JE)
C884	1-127-752-11	ELECT	3300uF	20%	63V (AEP, UK)
C884	1-127-753-11	ELECT	3300uF	20%	71V (US, CND)
C884	1-127-813-11	ELECT	3300uF	20%	71V (E, AUS, JE)
C885	1-136-165-00	FILM	0.1uF	5%	50V (NX3)
C886	1-136-165-00	FILM	0.1uF	5%	50V (NX3)
C887	1-130-777-00	FILM	0.1uF	10%	100V
C888	1-130-777-00	FILM	0.1uF	10%	100V
C889	1-162-306-11	CERAMIC	0.01uF	30%	16V
< CONNECTOR >					
CN802	1-778-981-11	CONNECTOR, BOARD TO BOARD 13P			
CN808	1-691-766-11	PLUG (MICRO CONNECTOR) 4P (NX1)			
CN808	1-691-768-11	PLUG (MICRO CONNECTOR) 6P (NX3)			

Ref. No.	Part No.	Description	Remark		
< DIODE >					
D802	8-719-911-19	DIODE	1SS133T-72		
D821	8-719-911-19	DIODE	1SS133T-72		
D831	8-719-911-19	DIODE	1SS133T-72		
D852	8-719-911-19	DIODE	1SS133T-72		
D871	8-719-911-19	DIODE	1SS133T-72		
D881	8-719-510-68	DIODE	D5SBA204101		
D882	8-719-510-68	DIODE	D5SBA204101 (NX3)		
D883	8-719-911-19	DIODE	1SS133T-72		
D884	8-719-911-19	DIODE	1SS133T-72 (NX3)		
D885	8-719-911-19	DIODE	1SS133T-72 (NX3)		
< GROUND TERMINAL >					
EP802	1-537-770-21	TERMINAL BOARD, GROUND			
< IC >					
IC801	8-749-015-39	IC	STK407-120E		
< COIL >					
L801	1-420-872-00	COIL, AIR-CORE (AEP, UK)			
L851	1-420-872-00	COIL, AIR-CORE (AEP, UK)			
L871	1-420-872-00	COIL, AIR-CORE (NX3: AEP, UK)			
L872	1-420-872-00	COIL, AIR-CORE (NX3: AEP, UK)			
L873	1-420-872-00	COIL, AIR-CORE (NX3: AEP, UK)			
< TRANSISTOR >					
Q801	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q821	8-729-140-82	TRANSISTOR	2SA988TP-PAFAEA		
Q822	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q823	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q824	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		
Q825	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		
Q826	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		
Q827	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		
Q828	8-729-140-82	TRANSISTOR	2SA988TP-PAFAEA		
Q829	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q830	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q831	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q851	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q881	8-729-140-82	TRANSISTOR	2SA988TP-PAFAEA		
Q882	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q883	8-729-140-82	TRANSISTOR	2SA988TP-PAFAEA (NX3)		
Q884	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA (NX3)		
Q885	8-729-140-82	TRANSISTOR	2SA988TP-PAFAEA (NX3)		
Q886	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA (NX3)		
< RESISTOR >					
R801	1-249-417-11	CARBON	1K	5%	1/4W
R802	1-249-438-11	CARBON	56K	5%	1/4W
R803	1-249-414-11	CARBON	560	5%	1/4W
R804	1-249-438-11	CARBON	56K	5%	1/4W
△ R805	1-212-881-11	FUSIBLE	100	5%	1/4W F
△ R807	1-217-156-00	METAL	0.22	10%	5W F
R808	1-249-417-11	CARBON	1K	5%	1/4W
R809	1-249-431-11	CARBON	15K	5%	1/4W
R810	1-249-441-11	CARBON	100K	5%	1/4W
R811	1-260-076-11	CARBON	10	5%	1/2W

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R812	1-260-076-11	CARBON	10 5% 1/2W (AEP, UK)	R874	1-260-076-11	CARBON	10 5% 1/2W (NX3: AEP, UK)
R813	1-260-076-11	CARBON	10 5% 1/2W (AEP, UK)	R875	1-260-076-11	CARBON	10 5% 1/2W (NX3: AEP, UK)
R814	1-249-437-11	CARBON	47K 5% 1/4W	R876	1-260-076-11	CARBON	10 5% 1/2W (NX3: AEP, UK)
R821	1-249-435-11	CARBON	33K 5% 1/4W	R877	1-260-076-11	CARBON	10 5% 1/2W (NX3: AEP, UK)
R822	1-249-435-11	CARBON	33K 5% 1/4W	R878	1-260-076-11	CARBON	10 5% 1/2W (NX3: AEP, UK)
R823	1-249-439-11	CARBON	68K 5% 1/4W	R879	1-260-076-11	CARBON	10 5% 1/2W (NX3: AEP, UK)
R824	1-249-421-11	CARBON	2.2K 5% 1/4W	R881	1-249-429-11	CARBON	10K 5% 1/4W
R825	1-249-433-11	CARBON	22K 5% 1/4W	R882	1-249-437-11	CARBON	47K 5% 1/4W
R826	1-249-429-11	CARBON	10K 5% 1/4W	R883	1-249-429-11	CARBON	10K 5% 1/4W
R827	1-249-433-11	CARBON	22K 5% 1/4W	R884	1-249-441-11	CARBON	100K 5% 1/4W
△ R828	1-202-972-61	FUSIBLE	1 5% 1/4W F	△ R885	1-216-481-41	METAL OXIDE	1.2K 5% 3W F
R829	1-249-441-11	CARBON	100K 5% 1/4W	R886	1-249-429-11	CARBON	10K 5% 1/4W (NX3)
R830	1-249-441-11	CARBON	100K 5% 1/4W	R887	1-249-437-11	CARBON	47K 5% 1/4W (NX3)
R831	1-249-429-11	CARBON	10K 5% 1/4W (NX1: AEP, UK)	R888	1-249-429-11	CARBON	10K 5% 1/4W (NX3)
R831	1-249-437-11	CARBON	12K 5% 1/4W (US, CND/NX3: AEP, UK)	R889	1-249-441-11	CARBON	100K 5% 1/4W (NX3)
R831	1-249-432-11	CARBON	18K 5% 1/4W (E, AUS, JE)	△ R890	1-215-918-41	METAL OXIDE	1.5K 5% 3W F (NX3: E, AUS)
R832	1-249-431-11	CARBON	15K 5% 1/4W	△ R890	1-216-481-41	METAL OXIDE	1.2K 5% 3W F (NX3: US, CND, AEP, UK)
R833	1-249-435-11	CARBON	33K 5% 1/4W	R891	1-249-429-11	CARBON	10K 5% 1/4W (NX3)
R836	1-249-425-11	CARBON	4.7K 5% 1/4W	R892	1-249-437-11	CARBON	47K 5% 1/4W (NX3)
R837	1-249-433-11	CARBON	22K 5% 1/4W	R893	1-249-429-11	CARBON	10K 5% 1/4W (NX3)
R838	1-249-435-11	CARBON	33K 5% 1/4W	R894	1-249-441-11	CARBON	100K 5% 1/4W (NX3)
R839	1-249-429-11	CARBON	10K 5% 1/4W	△ R895	1-215-918-41	METAL OXIDE	1.5K 5% 3W F (NX3: E, AUS)
R840	1-249-429-11	CARBON	10K 5% 1/4W	△ R895	1-216-481-41	METAL OXIDE	1.2K 5% 3W F (NX3: US, CND, AEP, UK)
R841	1-249-437-11	CARBON	47K 5% 1/4W	< RELAY >			
R842	1-249-438-11	CARBON	56K 5% 1/4W	RY881	1-755-168-11	RELAY	
R843	1-249-437-11	CARBON	47K 5% 1/4W (NX3)	RY882	1-515-920-11	RELAY (24V) (NX3)	
R844	1-249-437-11	CARBON	47K 5% 1/4W (NX3)	RY883	1-515-920-11	RELAY (24V) (NX3)	
R845	1-249-437-11	CARBON	47K 5% 1/4W (NX3)	< TERMINAL >			
△ R850	1-202-972-61	FUSIBLE	1 5% 1/4W F	TM801	1-537-240-11	TERMINAL BOARD (CHECKER PIN) (FRONT SPEAKER)	
R851	1-249-417-11	CARBON	1K 5% 1/4W	TM802	1-537-240-11	TERMINAL BOARD (CHECKER PIN) (REAR SPEAKER) (NX1)	
R852	1-249-438-11	CARBON	56K 5% 1/4W	TM802	1-537-510-11	TERMINAL BOARD (SPEAKER) (6P) (REAR SPEAKER, CENTER SPEAKER) (NX3)	
R853	1-249-414-11	CARBON	560 5% 1/4W	*****			
R854	1-249-438-11	CARBON	56K 5% 1/4W				
△ R855	1-215-918-41	METAL OXIDE	1.5K 5% 3W F				
△ R857	1-217-156-00	METAL	0.22 10% 5W F				
R858	1-249-417-11	CARBON	1K 5% 1/4W				
R859	1-249-431-11	CARBON	15K 5% 1/4W				
R860	1-249-441-11	CARBON	100K 5% 1/4W				
R861	1-260-076-11	CARBON	10 5% 1/2W				
R862	1-260-076-11	CARBON	10 5% 1/2W (AEP, UK)				
R863	1-260-076-11	CARBON	10 5% 1/2W (AEP, UK)				
R864	1-249-437-11	CARBON	47K 5% 1/4W				
R871	1-249-437-11	CARBON	47K 5% 1/4W (NX3)				
R872	1-249-437-11	CARBON	47K 5% 1/4W (NX3)				
R873	1-249-437-11	CARBON	47K 5% 1/4W (NX3)				

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PANEL

Ref. No.	Part No.	Description	Remark
	A-4426-226-A	PANEL BOARD, COMPLETE (NX1: US, CND, AEP, UK)	
	A-4426-249-A	PANEL BOARD, COMPLETE (NX1: MY, SP, KR, JE)	
	A-4426-258-A	PANEL BOARD, COMPLETE (NX3: US, CND, AEP, UK)	
	A-4426-275-A	PANEL BOARD, COMPLETE (NX3: E, AUS)	
	A-4426-927-A	PANEL BOARD, COMPLETE (NX1: TH)	

< CAPACITOR >			
C651	1-164-159-11	CERAMIC 0.1uF	50V
C652	1-104-664-11	ELECT 47uF	20% 16V
C653	1-162-306-11	CERAMIC 0.01uF	30% 16V
C654	1-162-306-11	CERAMIC 0.01uF	30% 16V
C655	1-162-306-11	CERAMIC 0.01uF	30% 16V
C656	1-162-306-11	CERAMIC 0.01uF	30% 16V
C657	1-104-664-11	ELECT 47uF	20% 16V
C658	1-104-664-11	ELECT 47uF	20% 16V
C659	1-104-664-11	ELECT 47uF	20% 16V
C660	1-164-159-11	CERAMIC 0.1uF	50V
C701	1-162-294-31	CERAMIC 0.001uF	10% 50V
C702	1-162-294-31	CERAMIC 0.001uF	10% 50V
C703	1-164-159-11	CERAMIC 0.1uF	50V
C706	1-126-961-11	ELECT 2.2uF	20% 50V
C707	1-162-306-11	CERAMIC 0.01uF	30% 16V
C708	1-162-294-31	CERAMIC 0.001uF	10% 50V
C709	1-162-215-31	CERAMIC 47PF	5% 50V
C710	1-162-290-31	CERAMIC 470PF	10% 50V
C711	1-104-664-11	ELECT 47uF	20% 16V
C712	1-126-956-91	ELECT 0.1uF	20% 50V
C713	1-162-215-31	CERAMIC 47PF	5% 50V
C714	1-162-282-31	CERAMIC 100PF	10% 50V
C716	1-104-664-11	ELECT 47uF	20% 16V
C717	1-126-961-11	ELECT 2.2uF	20% 50V
C741	1-164-159-11	CERAMIC 0.1uF	50V
< CONNECTOR >			
CN601	1-784-731-11	CONNECTOR, FFC 9P	
CN602	1-784-747-11	CONNECTOR, FFC 25P	
CN603	1-568-850-11	CONNECTOR, FFC 7P	
* CN606	1-560-666-00	PIN, CONNECTOR 3P	
< LED >			
D631	8-719-076-21	LED SEL5255S-TP15 (GROOVE)	
D632	8-719-046-43	LED SEL5421E-TP15 (DVD 5.1CH) (NX3)	
D633	8-719-046-43	LED SEL5421E-TP15 (PRO LOGIC) (NX3)	
D636	8-719-076-21	LED SEL5255S-TP15 (ENTER)	
D637	8-719-076-21	LED SEL5255S-TP15 (TIMER) (US, CND, AEP, UK)	
D638	8-719-076-21	LED SEL5255S-TP15 (I/⌂)	
D643	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)	
D644	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)	
D645	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)	
D646	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)	
D647	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)	
D648	8-719-076-15	LED SELS6B14C-TP6 (KEY ILLUMINATION)	

Ref. No.	Part No.	Description	Remark
		< GROUND TERMINAL >	
EPT601	1-537-770-21	TERMINAL BOARD, GROUND	
EPT602	1-537-770-21	TERMINAL BOARD, GROUND	
		< IC >	
IC701	8-759-634-51	IC M5218AP	
		< JACK >	
J701	1-785-569-11	JACK (SMALL TYPE) (PHONES)	
J702	1-785-569-11	JACK (SMALL TYPE) (MIC)	
		< COIL >	
L601	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q631	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q632	8-729-900-36	TRANSISTOR BA1F4M-TP (NX3)	
Q633	8-729-900-36	TRANSISTOR BA1F4M-TP (NX3)	
Q636	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q637	8-729-900-36	TRANSISTOR BA1F4M-TP (US, CND, AEP, UK)	
Q638	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q641	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q642	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q643	8-729-900-36	TRANSISTOR BA1F4M-TP	
		< RESISTOR >	
R602	1-249-411-11	CARBON 330 5%	1/4W
R603	1-249-413-11	CARBON 470 5%	1/4W
R604	1-249-414-11	CARBON 560 5%	1/4W
R605	1-249-415-11	CARBON 680 5%	1/4W
R606	1-249-417-11	CARBON 1K 5%	1/4W
R607	1-249-418-11	CARBON 1.2K 5%	1/4W
R608	1-249-420-11	CARBON 1.8K 5%	1/4W
R609	1-249-422-11	CARBON 2.7K 5%	1/4W
R610	1-247-843-11	CARBON 3.3K 5%	1/4W
R611	1-249-425-11	CARBON 4.7K 5%	1/4W
R612	1-249-427-11	CARBON 6.8K 5%	1/4W
R613	1-249-429-11	CARBON 10K 5%	1/4W
R614	1-249-431-11	CARBON 15K 5%	1/4W
R616	1-249-411-11	CARBON 330 5%	1/4W
R617	1-249-413-11	CARBON 470 5%	1/4W
R618	1-249-414-11	CARBON 560 5%	1/4W
R619	1-249-415-11	CARBON 680 5%	1/4W
R620	1-249-417-11	CARBON 1K 5%	1/4W
R621	1-249-418-11	CARBON 1.2K 5%	1/4W
R622	1-249-420-11	CARBON 1.8K 5%	1/4W
R623	1-249-422-11	CARBON 2.7K 5%	1/4W
R624	1-247-843-11	CARBON 3.3K 5%	1/4W
R626	1-249-410-11	CARBON 270 5%	1/4W
R627	1-249-410-11	CARBON 270 5%	1/4W
R631	1-249-411-11	CARBON 330 5%	1/4W
R632	1-249-411-11	CARBON 330 5%	1/4W
			(NX3)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R633	1-249-411-11	CARBON	330 5% 1/4W (NX3)	S620	1-762-875-21	SWITCH, TACTILE (+ ►►)	
R636	1-249-411-11	CARBON	330 5% 1/4W	S621	1-762-875-21	SWITCH, TACTILE (– ◄◄)	
R637	1-249-411-11	CARBON	330 5% 1/4W (US, CND, AEP, UK)	S622	1-762-875-21	SWITCH, TACTILE (ENTER)	
R638	1-249-411-11	CARBON	330 5% 1/4W	S623	1-762-875-21	SWITCH, TACTILE (DVD 5.1CH) (NX3)	
R641	1-249-403-11	CARBON	68 5% 1/4W	S624	1-762-875-21	SWITCH, TACTILE (PRO LOGIC) (NX3)	
R642	1-249-403-11	CARBON	68 5% 1/4W	S651	1-473-392-11	ENCODER, ROTARY (VOLUME)	
R643	1-249-403-11	CARBON	68 5% 1/4W	S652	1-473-534-11	ENCODER, ROTARY (JOG DIAL)	
R651	1-249-401-11	CARBON	47 5% 1/4W	*****			
R652	1-249-429-11	CARBON	10K 5% 1/4W	* 1-675-197-11	R BOARD		
R653	1-249-429-11	CARBON	10K 5% 1/4W		*****		
R654	1-249-429-11	CARBON	10K 5% 1/4W		< CONNECTOR >		
R655	1-249-429-11	CARBON	10K 5% 1/4W	* CN607	1-565-835-11	SOCKET, CONNECTOR 3P	
R656	1-249-417-11	CARBON	1K 5% 1/4W		< IC >		
R657	1-249-417-11	CARBON	1K 5% 1/4W	IC601	8-749-011-05	IC GP1U28X (REMOTE CONTROL RECEIVER)	
R661	1-247-807-31	CARBON	100 5% 1/4W	*****			
R662	1-247-807-31	CARBON	100 5% 1/4W (NX3)		1-674-801-11	SUB TRANS BOARD (US, CND, AEP, UK)	
R663	1-247-807-31	CARBON	100 5% 1/4W (NX3)		*****		
R666	1-247-807-31	CARBON	100 5% 1/4W		< CAPACITOR >		
R667	1-247-807-31	CARBON	100 5% 1/4W (US, CND, AEP, UK)	C932	1-126-768-11	ELECT 2200uF 20% 16V	
R668	1-247-807-31	CARBON	100 5% 1/4W	C933	1-164-159-11	CERAMIC 0.1uF 50V	
R669	1-247-807-31	CARBON	100 5% 1/4W	C934	1-126-933-11	ELECT 100uF 20% 16V	
R703	1-249-429-11	CARBON	10K 5% 1/4W	△C991	1-113-925-11	CERAMIC 0.01uF 20% 250V	
R704	1-249-417-11	CARBON	1K 5% 1/4W		< CONNECTOR >		
R705	1-249-441-11	CARBON	100K 5% 1/4W	* CN901	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P	
R706	1-249-417-11	CARBON	1K 5% 1/4W	CN902	1-564-321-00	PIN, CONNECTOR 2P	
R707	1-249-433-11	CARBON	22K 5% 1/4W		< DIODE >		
R708	1-249-429-11	CARBON	10K 5% 1/4W	D952	8-719-024-99	DIODE 11EQS04-NTA2B	
R709	1-247-885-00	CARBON	180K 5% 1/4W	D953	8-719-024-99	DIODE 11EQS04-NTA2B	
R710	1-247-807-31	CARBON	100 5% 1/4W	D954	8-719-024-99	DIODE 11EQS04-NTA2B	
		< VARIABLE RESISTOR >		D955	8-719-024-99	DIODE 11EQS04-NTA2B	
RV701	1-225-739-11	RES, VAR CARBON 50K (MIC LEVEL)		D956	8-719-911-19	DIODE 1SS133T-72	
		< SWITCH/ROTARY ENCODER >		D957	8-719-911-19	DIODE 1SS133T-72	
S601	1-762-875-21	SWITCH, TACTILE (I/⏻)			< IC >		
S602	1-762-875-21	SWITCH, TACTILE (DISPLAY)		IC991	8-759-450-47	IC BA05T	
S603	1-762-875-21	SWITCH, TACTILE (POWER SAVE/DEMO (STANDBY))			< TRANSISTOR >		
S604	1-762-875-21	SWITCH, TACTILE (VIDEO/DVD)		Q991	8-729-119-78	TRANSISTOR 2SC2785TP-HFE	
S605	1-762-875-21	SWITCH, TACTILE (MD)			< RESISTOR >		
S606	1-762-875-21	SWITCH, TACTILE (TAPE)		R991	1-249-441-11	CARBON 100K 5% 1/4W	
S607	1-762-875-21	SWITCH, TACTILE (CD)		R992	1-249-429-11	CARBON 10K 5% 1/4W	
S608	1-762-875-21	SWITCH, TACTILE (TUNER)			< RELAY >		
S609	1-762-875-21	SWITCH, TACTILE (DSP)		△RY901	1-755-276-11	RELAY, POWER	
S610	1-762-875-21	SWITCH, TACTILE (DBFB)			< TRANSFORMER >		
S611	1-762-875-21	SWITCH, TACTILE (PLAY MODE)		△T901	1-433-999-11	TRANSFORMER, POWER (AEP, UK)	
S612	1-762-875-21	SWITCH, TACTILE (REPEAT)		△T901	1-435-059-11	TRANSFORMER, POWER (US, CND)	
S613	1-762-875-21	SWITCH, TACTILE (EDIT)		*****			
S614	1-762-875-21	SWITCH, TACTILE (FILE SELECT)					
S615	1-762-875-21	SWITCH, TACTILE (TUNER BAND)					
S616	1-762-875-21	SWITCH, TACTILE (STEREO/MONO)					
S617	1-762-875-21	SWITCH, TACTILE (TUNER MEMORY)					
S619	1-762-875-21	SWITCH, TACTILE (GROOVE)					

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SURROUND AMP

TRANS

Ref. No.	Part No.	Description	Remark			
A-4426-260-A		SURROUND AMP BOARD, COMPLETE (NX3)				

< CAPACITOR >						
C101	1-128-582-11	ELECT	10uF	20%	100V	
C102	1-162-292-31	CERAMIC	680PF	10%	50V	
C103	1-162-286-31	CERAMIC	220PF	10%	50V	
C104	1-126-967-11	ELECT	47uF	20%	50V	
C105	1-136-165-00	FILM	0.1uF	5%	50V	
C106	1-136-165-00	FILM	0.1uF	5%	50V	
C107	1-128-560-11	ELECT	22uF	20%	100V	
C108	1-136-495-11	FILM	0.068uF	5%	50V	
C109	1-136-495-11	FILM	0.068uF	5%	50V	
C113	1-161-494-00	CERAMIC	0.022uF		25V	
C114	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C151	1-128-582-11	ELECT	10uF	20%	100V	
C152	1-162-292-31	CERAMIC	680PF	10%	50V	
C153	1-162-286-31	CERAMIC	220PF	10%	50V	
C154	1-126-967-11	ELECT	47uF	20%	50V	
C157	1-128-560-11	ELECT	22uF	20%	100V	
C158	1-136-495-11	FILM	0.068uF	5%	50V	
C159	1-136-495-11	FILM	0.068uF	5%	50V	
C181	1-128-582-11	ELECT	10uF	20%	100V	
C182	1-162-292-31	CERAMIC	680PF	10%	50V	
C183	1-162-286-31	CERAMIC	220PF	10%	50V	
C184	1-126-967-11	ELECT	47uF	20%	50V	
C188	1-136-495-11	FILM	0.068uF	5%	50V	
C189	1-136-495-11	FILM	0.068uF	5%	50V	
< CONNECTOR >						
* CN101	1-564-524-11	PLUG, CONNECTOR 9P				
< DIODE >						
D101	8-719-911-19	DIODE	1SS133T-72			
D102	8-719-911-19	DIODE	1SS133T-72			
D151	8-719-911-19	DIODE	1SS133T-72			
D191	8-719-911-19	DIODE	1SS133T-72			
< GROUND TERMINAL >						
EPT101	1-537-770-21	TERMINAL BOARD, GROUND				
< IC >						
IC101	8-749-015-54	IC	STK408-040E			
< CONNECTOR >						
NO102	1-691-767-11	PLUG (MICRO CONNECTOR) 5P				
< TRANSISTOR >						
Q101	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA			
Q103	8-729-140-82	TRANSISTOR	2SA988TP-PAFAEA			
Q104	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA			
Q151	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA			
Q181	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA			
< RESISTOR >						
R101	1-249-417-11	CARBON	1K	5%	1/4W	
R102	1-249-437-11	CARBON	47K	5%	1/4W	

Ref. No.	Part No.	Description			Remark
R103	1-249-411-11	CARBON	330	5%	1/4W
△ R107	1-212-881-11	FUSIBLE	100	5%	1/4W F
△ R108	1-220-755-11	METAL	0.22	10%	2W F
R109	1-260-076-11	CARBON	10	5%	1/2W
R110	1-249-437-11	CARBON	47K	5%	1/4W
R111	1-249-417-11	CARBON	1K	5%	1/4W
R112	1-249-431-11	CARBON	15K	5%	1/4W
R113	1-249-441-11	CARBON	100K	5%	1/4W
R114	1-249-421-11	CARBON	2.2K	5%	1/4W
R115	1-249-433-11	CARBON	22K	5%	1/4W
R116	1-249-429-11	CARBON	10K	5%	1/4W
R117	1-249-421-11	CARBON	2.2K	5%	1/4W
R119	1-249-439-11	CARBON	68K	5%	1/4W
△ R120	1-217-637-00	FUSIBLE	1	5%	1/4W F
R121	1-249-433-11	CARBON	22K	5%	1/4W
R130	1-249-435-11	CARBON	33K	5%	1/4W
R151	1-249-417-11	CARBON	1K	5%	1/4W
R152	1-249-437-11	CARBON	47K	5%	1/4W
R153	1-249-410-11	CARBON	270	5%	1/4W
△ R157	1-212-881-11	FUSIBLE	100	5%	1/4W F
△ R158	1-220-755-11	METAL	0.22	10%	2W F
R159	1-260-076-11	CARBON	10	5%	1/2W
R160	1-249-437-11	CARBON	47K	5%	1/4W
R161	1-249-417-11	CARBON	1K	5%	1/4W
R162	1-249-431-11	CARBON	15K	5%	1/4W
R163	1-249-441-11	CARBON	100K	5%	1/4W
R181	1-249-417-11	CARBON	1K	5%	1/4W
R182	1-249-437-11	CARBON	47K	5%	1/4W
R183	1-249-411-11	CARBON	330	5%	1/4W
△ R188	1-220-755-11	METAL	0.22	10%	2W F
R189	1-260-076-11	CARBON	10	5%	1/2W
R190	1-249-437-11	CARBON	47K	5%	1/4W
R191	1-249-417-11	CARBON	1K	5%	1/4W
R192	1-249-431-11	CARBON	15K	5%	1/4W
R193	1-249-441-11	CARBON	100K	5%	1/4W

	1-674-803-11	TRANS BOARD	*****		
	1-533-217-31	HOLDER, FUSE			
		< CAPACITOR >			
C951	1-162-306-11	CERAMIC	0.01uF	30%	16V
C952	1-162-306-11	CERAMIC	0.01uF	30%	16V
C953	1-162-306-11	CERAMIC	0.01uF	30%	16V
		< CONNECTOR >			
CN951	1-564-321-00	PIN, CONNECTOR 2P (E, AUS, JE)			
		< FUSE >			
△ F951	1-532-505-31	FUSE T5AL/250V (NX1: MY, SP, JE)			
△ F951	1-533-311-11	FUSE, GLASS CYLINDRICAL 8A/250V (NX3: US, CND)			
△ F951	1-533-949-31	FUSE T8AL/250V (NX3: MY, SP)			
△ F961	1-533-311-11	FUSE, GLASS CYLINDRICAL 8A/125V (NX1: US, CND)			
△ F961	1-533-949-31	FUSE, CYLINDRICAL T8AL/250V (EXCEPT US, CND)			

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
△ F962	1-533-311-11	FUSE, GLASS CYLINDRICAL 8A/125V (NX1: US, CND)		69	1-784-731-11	CONNECTOR, FFC 9P	
△ F962	1-533-949-31	FUSE, CYLINDRICAL T8AL/250V (EXCEPT US, CND)		△ 104	1-575-651-11	CORD, POWER (NX3: MY, SP)	
△ F963	1-533-312-11	FUSE, GLASS CYLINDRICAL 10A/125V (NX3: US, CND)		△ 104	1-575-651-21	CORD, POWER (NX1: AEP, UK, MY, SP/NX3: AEP, UK)	
△ F963	1-533-949-31	FUSE, CYLINDRICAL T8AL/250V (NX3: AEP, UK, E, AUS)		△ 104	1-575-653-11	CORD, POWER (NX1: TH)	
△ F964	1-533-312-11	FUSE, GLASS CYLINDRICAL 10A/125V (NX3: US, CND)		△ 104	1-690-608-11	CORD, POWER (NX3: AUS)	
△ F964	1-533-949-31	FUSE, CYLINDRICAL T8AL/250V (NX3: AEP, UK, E, AUS)		△ 104	1-690-609-21	CORD, POWER (CND, JE)	
△ F965	1-532-504-31	FUSE T4AL/250V (EXCEPT US, CND)		△ 104	1-769-079-21	CORD, POWER (KR)	
△ F965	1-533-296-11	FUSE, GLASS CYLINDERICAL (DIA.5) 2A/125V (US, CND)		△ 104	1-783-531-31	CORD, POWER (US)	
△ F966	1-532-504-31	FUSE T4AL/250V (EXCEPT US, CND)		△ 107	1-569-007-11	ADAPTOR, CONVERSION 2P (JE)	
△ F966	1-533-296-11	FUSE, GLASS CYLINDERICAL (DIA.5) 2A/125V (US, CND)		△ 107	1-569-008-21	ADAPTOR, CONVERSION 2P (MY, SP)	
< RESISTOR >				△ 107	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	
△ R951	1-219-120-11	FUSIBLE 0.15 5% 1/4W F (NX1: US, CND/NX3)		LCD601	1-803-738-11	LIQUID CRYSTAL DISPLAY UNIT	
△ R951	1-219-121-11	FUSIBLE 0.22 5% 1/4W F (NX1: AEP, UK, E, JE)		M401	1-763-117-11	FAN, DC	
△ R952	1-219-120-11	FUSIBLE 0.15 5% 1/4W F (NX1: US, CND/NX3)		△ T951	1-433-993-11	TRANSFORMER, POWER (NX1: E, JE)	
△ R952	1-219-121-11	FUSIBLE 0.22 5% 1/4W F (NX1: AEP, UK, E, JE)		△ T951	1-433-994-11	TRANSFORMER, POWER (NX1: AEP, UK)	
△ R961	1-202-725-00	SOLID 3.3M 10% 1/2W (US, CND)		△ T951	1-433-995-11	TRANSFORMER, POWER (NX1: US, CND)	
< SWITCH >				△ T951	1-433-996-11	TRANSFORMER, POWER (NX3: E, AUS)	
△ S951	1-771-291-11	SWITCH, POWER (VOLTAGE SELECTOR) (MY, SP, JE)		△ T951	1-433-997-11	TRANSFORMER, POWER (NX3: AEP, UK)	
< TRANSFORMER >				△ T951	1-433-998-11	TRANSFORMER, POWER (NX3: US, CND)	
△ T951	1-433-993-11	TRANSFORMER, POWER (NX1: E, JE)		*****			
△ T951	1-433-994-11	TRANSFORMER, POWER (NX1: AEP, UK)		*****			
△ T951	1-433-995-11	TRANSFORMER, POWER (NX1: US, CND)		*****			
△ T951	1-433-996-11	TRANSFORMER, POWER (NX3: E, AUS)		*****			
△ T951	1-433-997-11	TRANSFORMER, POWER (NX3: AEP, UK)		*****			
△ T951	1-433-998-11	TRANSFORMER, POWER (NX3: US, CND)		*****			
*****				*****			
MISCELLANEOUS				*****			
*****				*****			
4	1-751-688-11	WIRE (FLAT TYPE) (13 CORE) (NX1: US, CND, TH, KR/NX3: US, CND, KR, AUS)		*****			
4	1-773-011-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK, MY, SP, JE)		*****			
6	1-233-545-11	TUNER PACK (FM/AM) (NX1: TH, KR/NX3: KR, AUS)		*****			
6	1-233-546-11	TUNER PACK (FM/MW/SW) (MY, SP)		*****			
6	1-693-443-11	TUNER PACK (FM/AM) (AEP, UK)		*****			
6	1-693-445-11	TUNER PACK (FM/AM) (US, CND)		*****			
6	1-693-465-11	TUNER PACK (FM/MW/SW) (NX1: JE)		*****			
62	1-769-908-11	WIRE (FLAT TYPE) (9 CORE)		*****			
64	1-773-213-11	WIRE (FLAT TYPE) (25 CORE)		*****			
67	1-769-886-11	WIRE (FLAT TYPE) (7 CORE)		*****			

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