

CX-LMN5

SERVICE MANUAL

Ver 1.2 2003.09



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

CX-LMN5 is the Amplifier, CD player, Tape Deck and Tuner section in XR-MN5.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM69BV-30CBD64NS
	Base Unit Name	BU-30CBD64NS
	Optical Pick-up Name	A-MAX.3
TAPE Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	CMAL1Z240A

SPECIFICATIONS

MAIN UNIT CX-LMN5

TUNER

FM tuning range	87.5 MHz to 108 MHz
FM usable sensitivity (IHF)	16.8 dBf
FM antenna terminal	75 Ω (unbalanced)
AM tuning range	531 kHz to 1602 kHz (9 kHz Step) (AEP, UK)
	530 kHz to 1710 kHz (10kHz Step) (EXCEPT AEP, UK)
	531 kHz to 1710 kHz (9kHz Step) (EXCEPT AEP, UK)
AM usable sensitivity	350 μ V/m
AM antenna	Loop antenna

AMPLIFIER

Power output	Rated: 64 W + 64 W (6 Ω , T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 80 W + 80 W (6 Ω , T.H.D. 10 %, 1 kHz/DIN 45324) MUSIC POWER: 220 W + 220 W AUX IN: 1.4 V SPEAKERS: 6 Ω or more PHONES: 32 Ω or more
Input	
Outputs	

CASSETTE DECK

Track format	4 tracks, 2 channels stereo
Frequency response	100 Hz – 10000 Hz
Recording system	AC bias
Heads	Recording/playback $\times$ 1, erase $\times$ 1

CD PLAYER

Laser	Semiconductor laser (λ = 800 nm) Emission duration: continuous
D/A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

GENERAL

Power requirements	230 V AC, 50/60 Hz (AEP, UK) 120 V AC, 60 Hz (US, CND, TW) 120 V/220 V/230-240 V AC, 50/60 Hz (E) 220 V AC, 50/60 Hz (KR) 110-240 V AC, 50/60 Hz (TH) 220-240 V AC, 50/60 Hz (SP) 240 V AC, 50/60 Hz (AUS, TW)
Power consumption	85 W (EXCEPT US, CND) 80 W (US, CND)

Power consumption in standby mode

with ECO mode on:	0.26 W (EXCEPT E) 0.35W (E) 0.25 W (US,CND) 0.26 W (AEP,UK) 0.26 W (TH,KR) 0.35 W (OTHER)
with ECO mode off:	15 W (EXCEPT E) 18 W (E) 16 W (US,CND) 15 W (AEP,UK) 18 W (TH,KR) 18 W (OTHER)

Dimensions (w/h/d)	Approx. 190 $\times$ 277 $\times$ 353 mm
Mass	Approx. 6.8 kg
Supplied accessories:	FM antenna (1) AM antenna (1) Speaker cords (2) Remote commander (1) Batteries (2)

Specifications and external appearance are subject to change without notice.

- Abbreviation
AUS : Australian model.
CND : Canadian model.
SP : Singapore model.
TW : Taiwan model.
KR : Korean model.
TH : Thai model.

MICRO HI-FI COMPONENT SYSTEM

9-877-183-03

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Sony Corporation

Home Audio Company

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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

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.

SAFETY CHECK-OUT

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

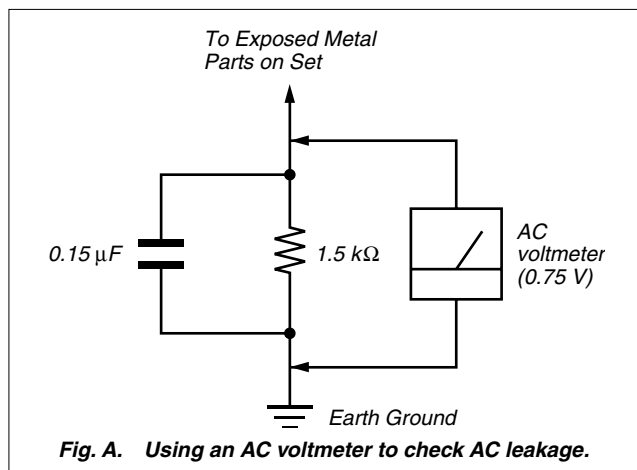
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage.

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.

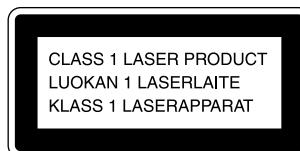
1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means 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)



CAUTION

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

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



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

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.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

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

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)



LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350 °C .

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!

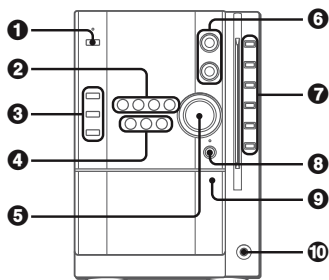
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

CX-LMN5**SECTION 2
GENERAL**

This section is extracted
from instruction manual.

PARTS AND CONTROLS**Main unit: front**

Refer to the pages indicated in parentheses for details.

**1 POWER $\odot$ STANDBY/ON (8)**

Switches the unit on and off (standby).

2 $\blacktriangleright$ II CD (8, 10-12)

Starts and pauses CD play.

TUNER/BAND (8, 14)

Selects tuner function and the tuner band.

 $\blacktriangleleft$ $\blacktriangleright$ TAPE (REC MUTING) (8, 17, 19)

Starts playback and changes the playback side.
Also used to enter 4-second blank spaces during recording.

AUX (8)

Selects the function of external equipment connected to AUX IN jacks.

3 ECO/RDS (8, 14-16)

Sets the ECO mode on or off.
Tuner: Activates RDS features.

SYNCHRO REC (18)

Starts recording and CD play simultaneously.

REC START/REC PAUSE (18-20)

Starts and pauses recording.

4 $\blacksquare$ (10-12, 17, 18, 20)

CD and Tape: stops playback.
Tuner: clears a preset station.

TUNING $\blacktriangleleft$ $\blacktriangleright$ /I $\blacktriangleleft$ $\blacktriangleleft$ $\blacktriangleleft$ $\blacktriangleleft$, $\blacktriangleright$ $\blacktriangleright$ $\blacktriangleright$ $\blacktriangleright$ /I $\blacktriangleright$ $\blacktriangleright$ $\blacktriangleright$ $\blacktriangleright$ (8,10-12, 14, 17, 21, 22)

CD: skips to a previous or a succeeding track when pressed, searches a track in fast forward or reverse playback when held down.

Tape: rewinds or fast forwards the tape.

Tuner: manually tunes up or down within the band.

5 VOLUME (9)

Adjusts the volume.

6 TREBLE (9)

Adjusts the treble level.

BASS (9)

Adjusts the bass level.

7 $\blacktriangle$ CD EJECT (10, 12)

Ejects the disc(s).

CD slot buttons (1-5) (8, 10-12)

Selects a disc slot.

Starts CD play for one desired disc.

8 i-Bass/DEMO (4, 9)

Produces rich and clear low frequency sound.

Switches DEMO on and off while the unit is turned off.

9 PUSH EJECT $\blacktriangle$ (17-19)

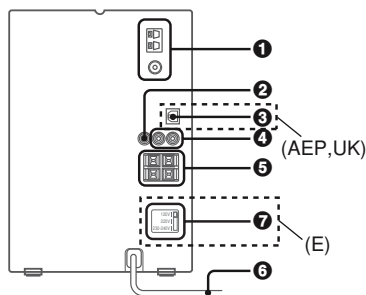
Opens or closes the cassette holder.

10 PHONES jack

Plug in optional headphones set with a stereo mini plug ($\varnothing$ 3.5 mm). Speaker output is cancelled.

Main unit: rear

Refer to the pages indicated in parentheses for details.

**1 AM LOOP jack and FM 75 terminal (4)**

Plug in the supplied AM and FM antennas.

2 SUB WOOFER ∇ jack

Connect optional powered sub woofer with a built-in amplifier to the jack.

3 DIGITAL OUT (OPTICAL) jack (AEP, UK)

CD digital sound signals can be output through this jack.
Use an optical cable to connect digital audio equipment.
Fit an optical cable plug in the DIGITAL OUT (OPTICAL) jack and push it to connect.

4 AUX IN jacks

Accept analogue sound signals from external equipment.
Connect external equipment using an optional connecting cable with RCA phono plugs (red plug to R jack, white plug to L jack). Refer also to the operating instructions for your equipment.

To switch function to external input, press AUX.

To change a source name in the display of the AUX function.

Hold down AUX and press POWER while the power is on.

$\rightarrow$ AUX $\rightarrow$ VIDEO $\rightarrow$ TV $\rightarrow$

5 SPEAKERS ∇ terminals (4)

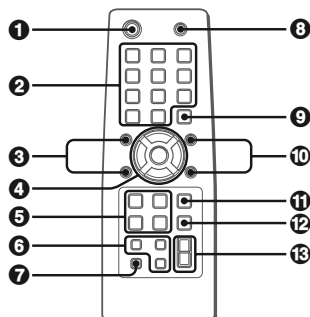
Connect the speaker cords of the supplied speakers.

6 AC power cord (4)**7 VOLTAGE SELECTOR (E)**

120 V/220 V/230-240 V AC, 50/60Hz

Remote commander

Refer to the pages indicated in parentheses for details.



Buttons with the same or similar names on the main unit basically have the same function.

1 POWER (8)

2 1-10/0, >10 (10-12, 15, 19, 20)

CD: selects a track of the specified number.
Tuner: tunes in the station with the specified preset number.

The numbered buttons take on these functions when pressed with SHIFT held down:

CLOCK (8)

Selects clock mode.

TIMER (21, 22)

Selects timer mode.

MUTING (9)

To turn off the sound temporarily.

TUNER MODE (15)

Switches between stereo or monaural FM reception.

REV MODE (17, 18, 22)

Selects a reverse mode.

DISC/ALBUM (12)

Selects disc mode or album mode on an MP3-CD.

CD EDIT/CHECK (19, 20)

Selects edited CD recording.

3 SHUFFLE/PROGRAM (11)

Selects shuffle or programmed CD playback mode.

REPEAT (11)

Selects repeat CD playback mode.

4 ALBUM/PRESET ^, v (12, 15)

MP3-CD: Skips to a previous or succeeding album.
Tuner: Tunes in a preset station.

◀◀/I◀◀, ▶▶/I▶▶ (8, 10-12, 14, 17, 21, 22)

ENTER (8, 14, 15, 21, 22)

Determines the mode.
Stores the received station to preset.

5 ▶▶ICD (8, 10-12)

TUNER/BAND (8, 14)

◀▶ TAPE (8, 17)

AUX (8)

6 DISPLAY (10, 12)

Changes the display in CD playback mode.

DIMMER (8)

Adjusts the display window brightness.

SLEEP (21)

Selects sleep-timer mode.

7 SHIFT

Hold down when pressing a numbered button to change its function to that printed above the number.

8 DISC SELECT (10, 12)

Selects a desired CD slot.

9 CLEAR (11, 15, 21, 22)

CD: Clears a CD program
Tuner: Clears a preset station.

10 i-Bass (9)

TONE (9)

Selects the bass or treble adjusting mode.

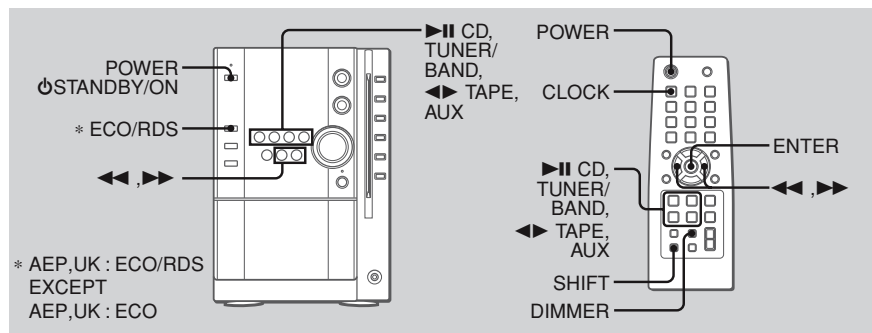
11 ■ (10-12, 17, 18, 20)

12 FUNCTION (18-20)

Switches the active function among TAPE, TUNER, AUX (VIDEO or TV) and CD.

13 VOLUME +, - (9)

ADJUSTMENTS BEFORE OPERATION



Power

Turning the unit on

Press POWER ⏻/STANDBY/ON (POWER on the remote).
Alternatively, press ▶▶ TAPE, TUNER/BAND, AUX, ▶▶ICD or one of the CD slot buttons (1-5). Playback will start automatically if a disc or tape is loaded.

Turning the unit off

Press POWER ⏻/STANDBY/ON again.
The unit goes into standby.

Dimmer

The display window brightness can be selected.

Press DIMMER on the remote.
Each press of the button changes between darker and brighter.

ECO mode

Reduces power consumption in standby mode with the following operations.

Press ECO/RDS. (AEP,UK: ECO/RDS EXCEPT AEP,UK: ECO)
Each press of the button changes the mode as follows;

ECO ON: Power economizing mode is activated.

When the unit turns off, everything on the display clears and only the red indicator above POWER lights to show that the power is being supplied.

ECO OFF: Power economizing mode is cancelled.

When the unit turns off, the clock display appears.

Initial mode is ECO OFF.

Standby power consumption

ECO ON: 0.26 W

ECO OFF: 15 W

Setting the clock

- In stop mode, hold down SHIFT and press CLOCK on the remote.
Go to step 3 when the hour of the clock display flashes.
- Within 6 seconds, press ENTER.
The hour flashes in the display.
- Press ◀◀ or ▶▶ to set the hour, then press ENTER.
- Press ◀◀ or ▶▶ to set the minute.
Each press changes the time in 1-minute steps.
- Press ENTER.
The time display stops flashing and the clock starts from 00 seconds.

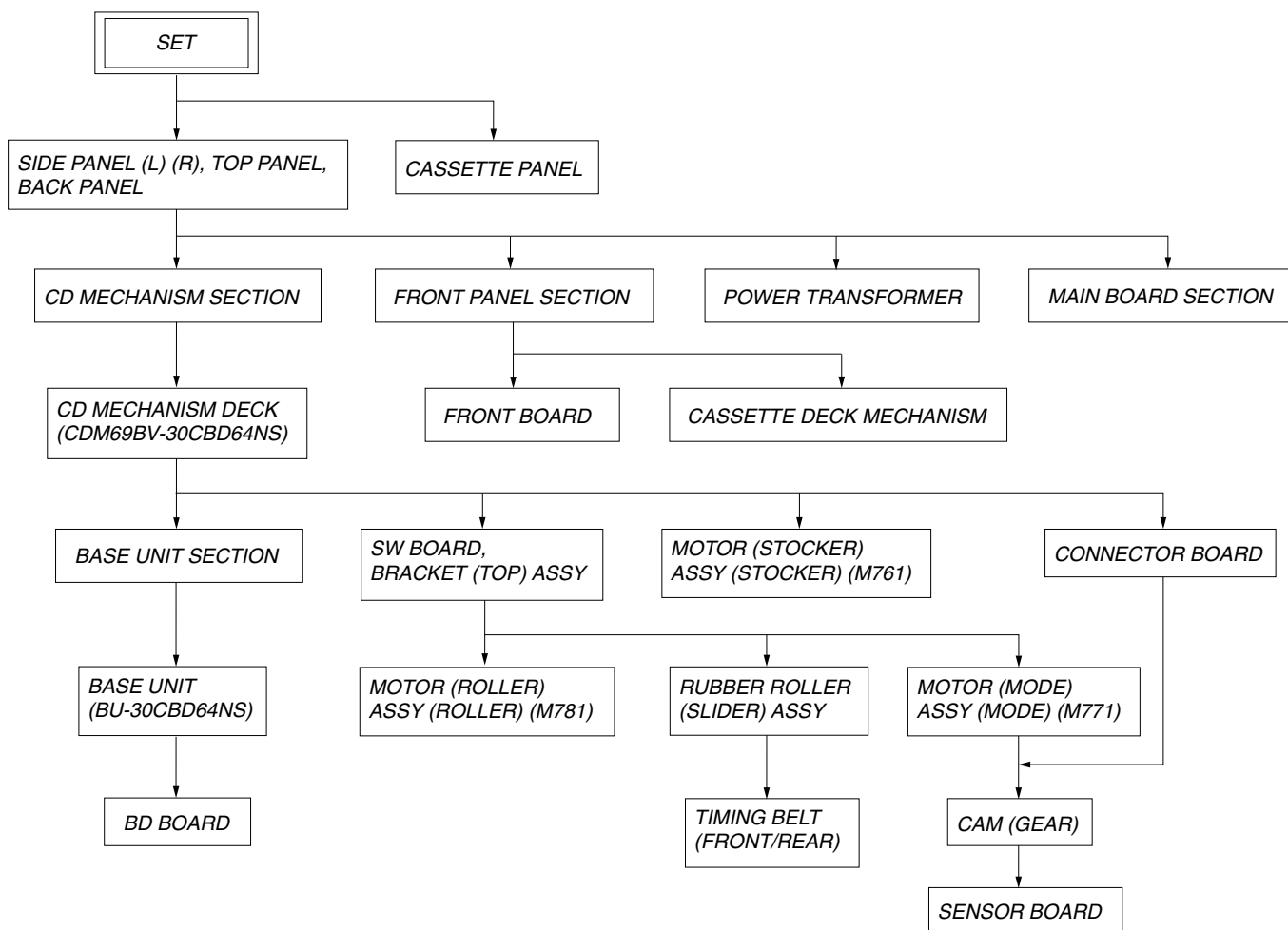
To display the time while the power is on

Hold down SHIFT and press CLOCK on the remote.
The time will be displayed for 6 seconds.

If "-:--" appears when the unit is turned off
There has been a power interruption. Reset the clock.

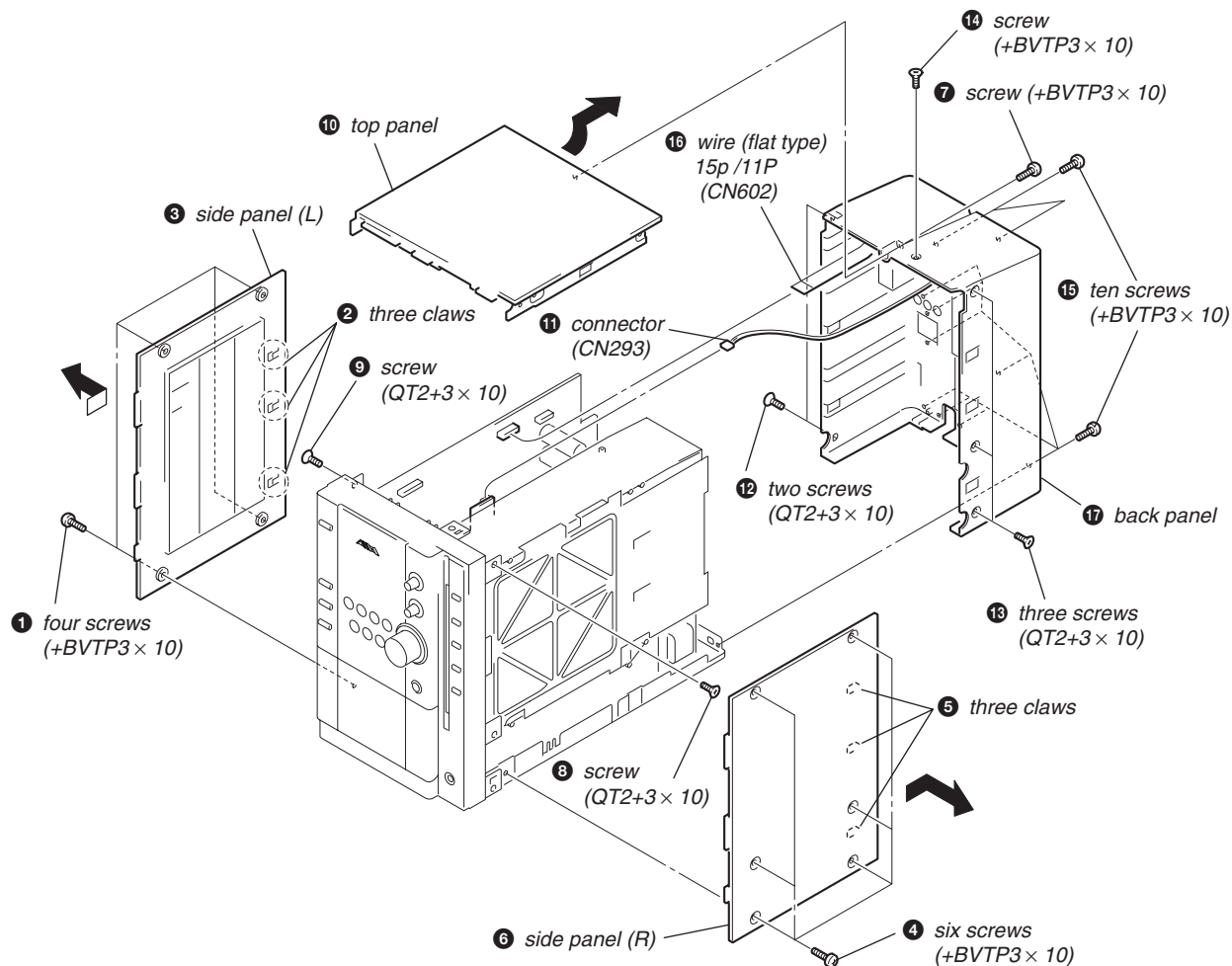
CX-LMN5**SECTION 3
DISASSEMBLY**

- This set can be disassembled in the order shown below.

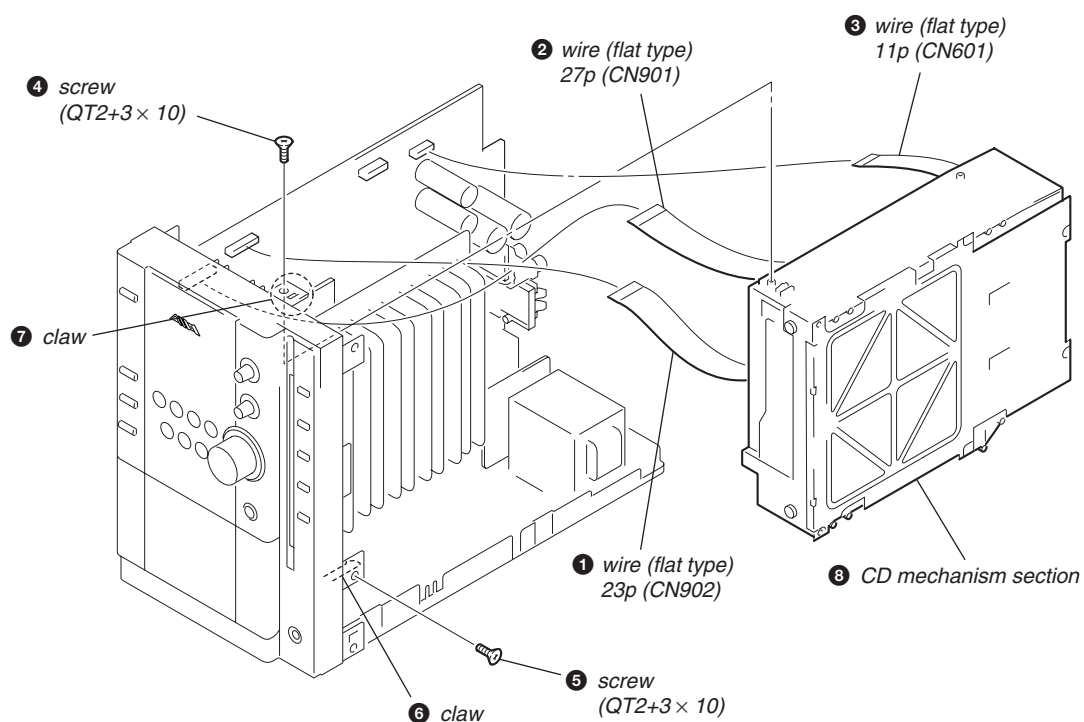


Note: Follow the disassembly procedure in the numerical order given.

3-1. Side Panel (L)(R), Top Panel, Back Panel

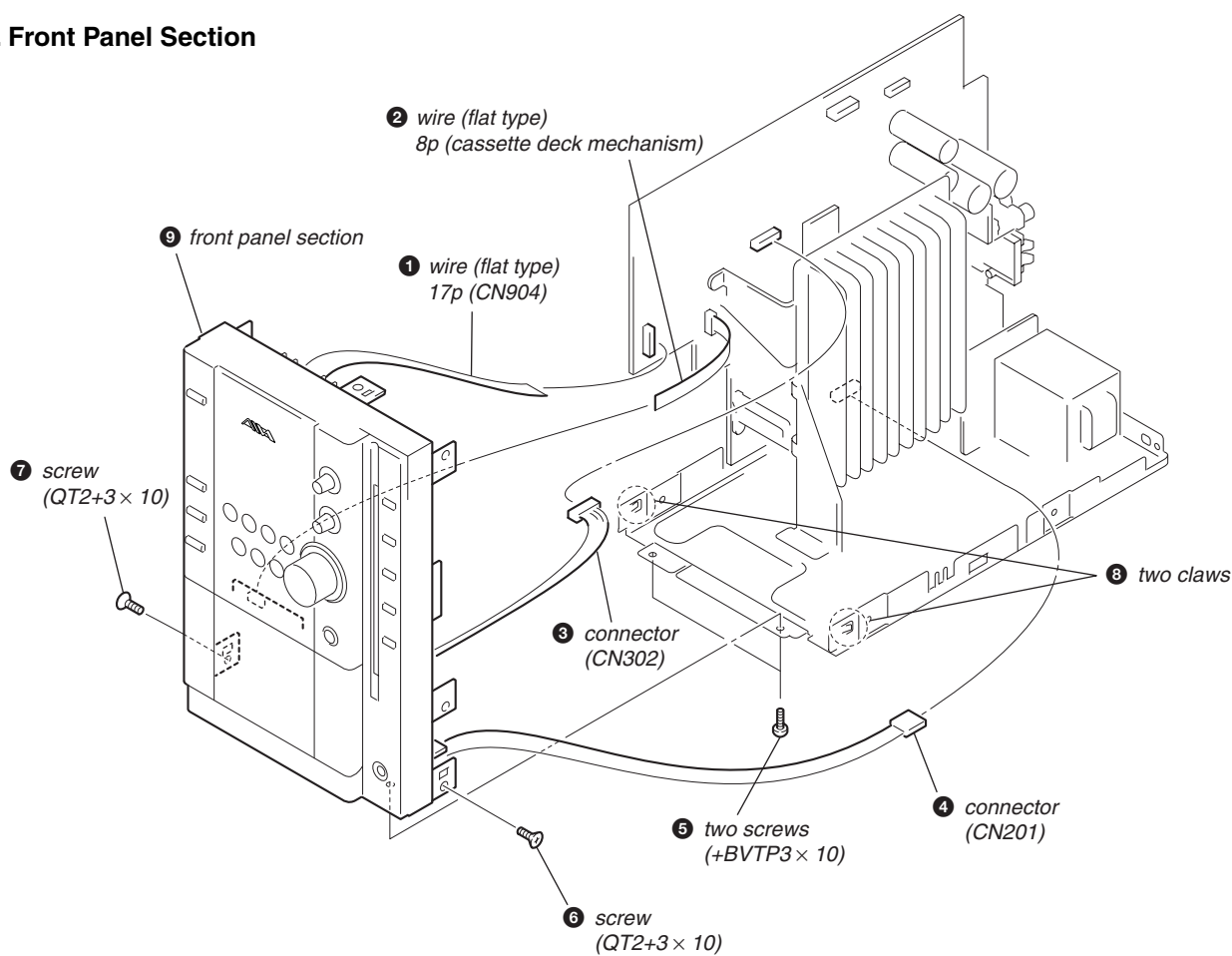


3-2. CD Mechanism Section

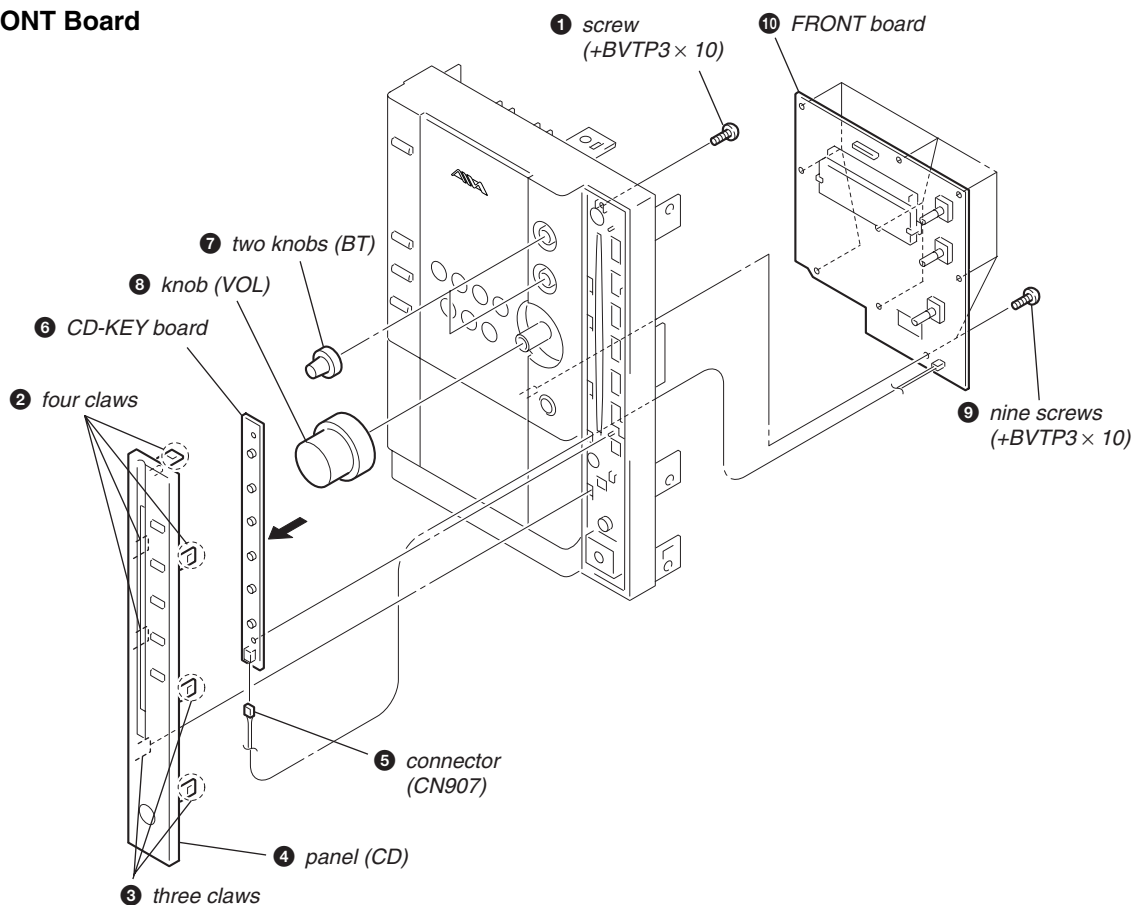


CX-LMN5

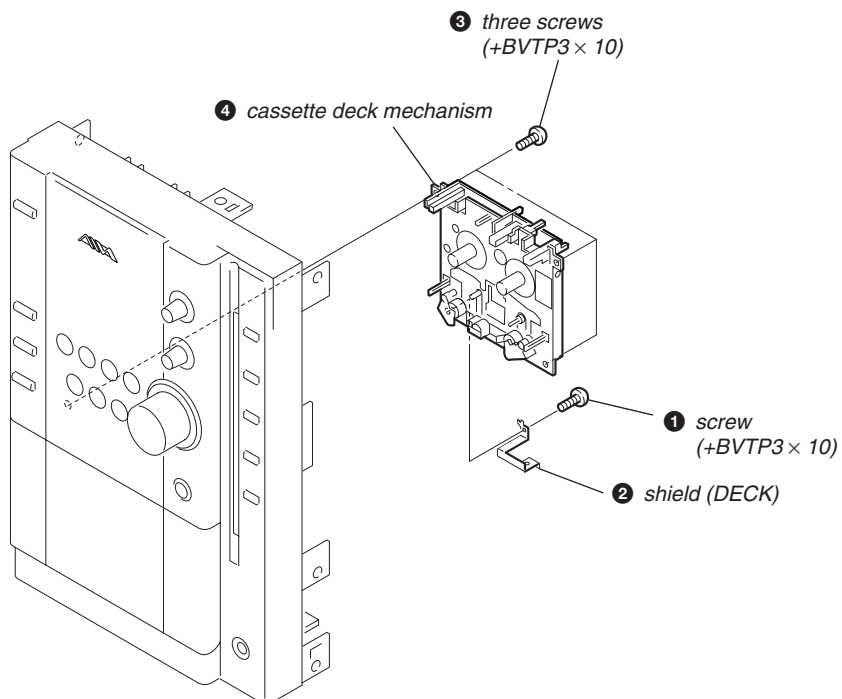
3-3. Front Panel Section



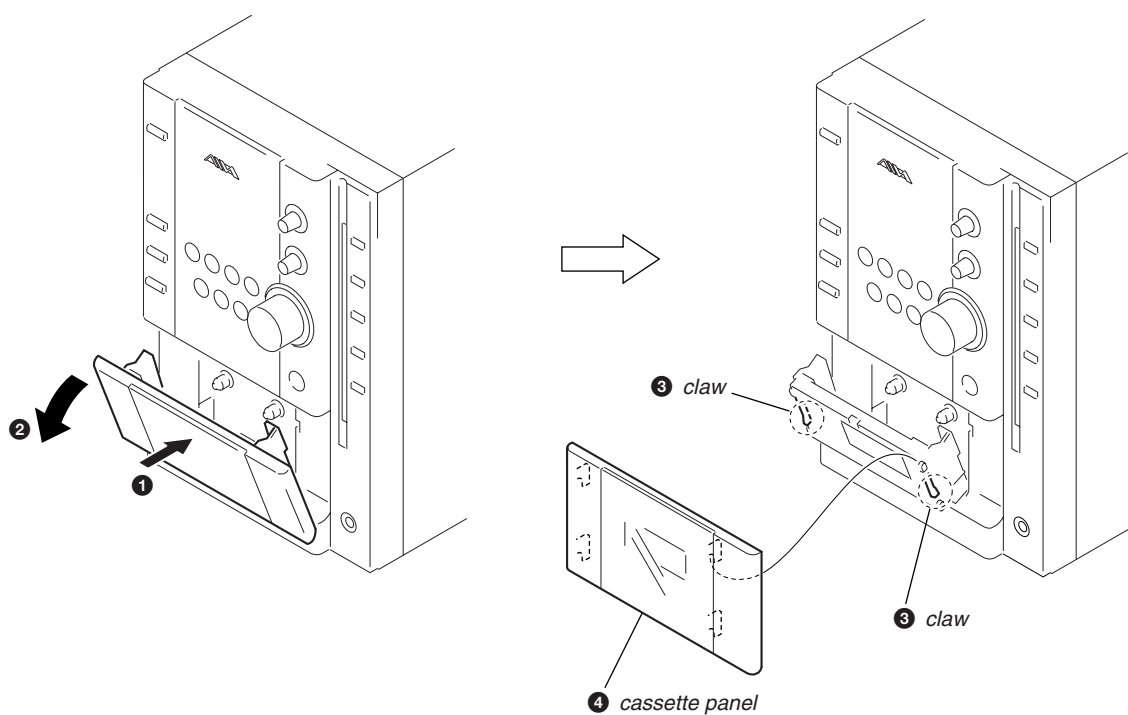
3-4. FRONT Board



3-5. Cassette Deck Mechanism

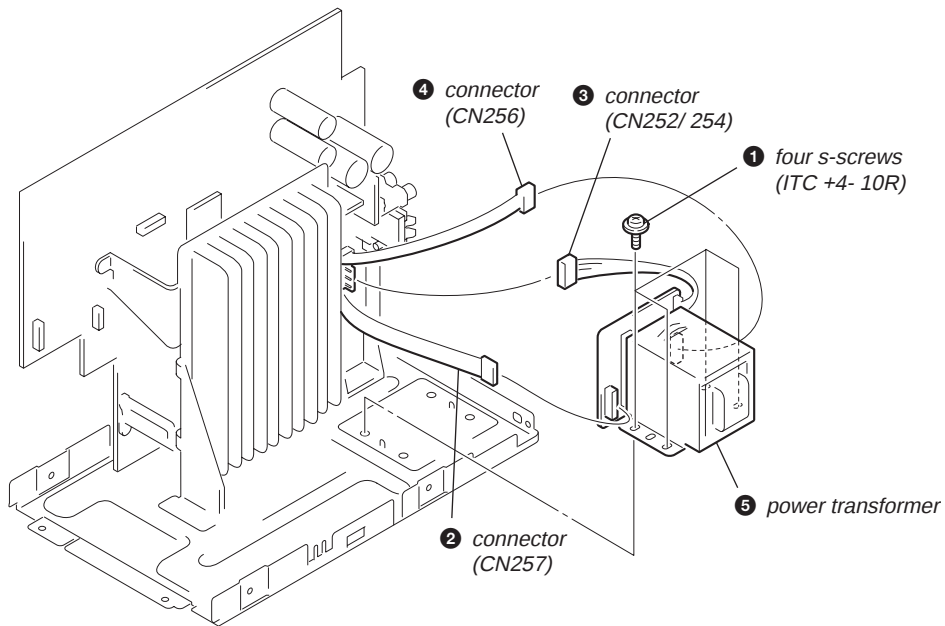


3-6. Cassette Panel

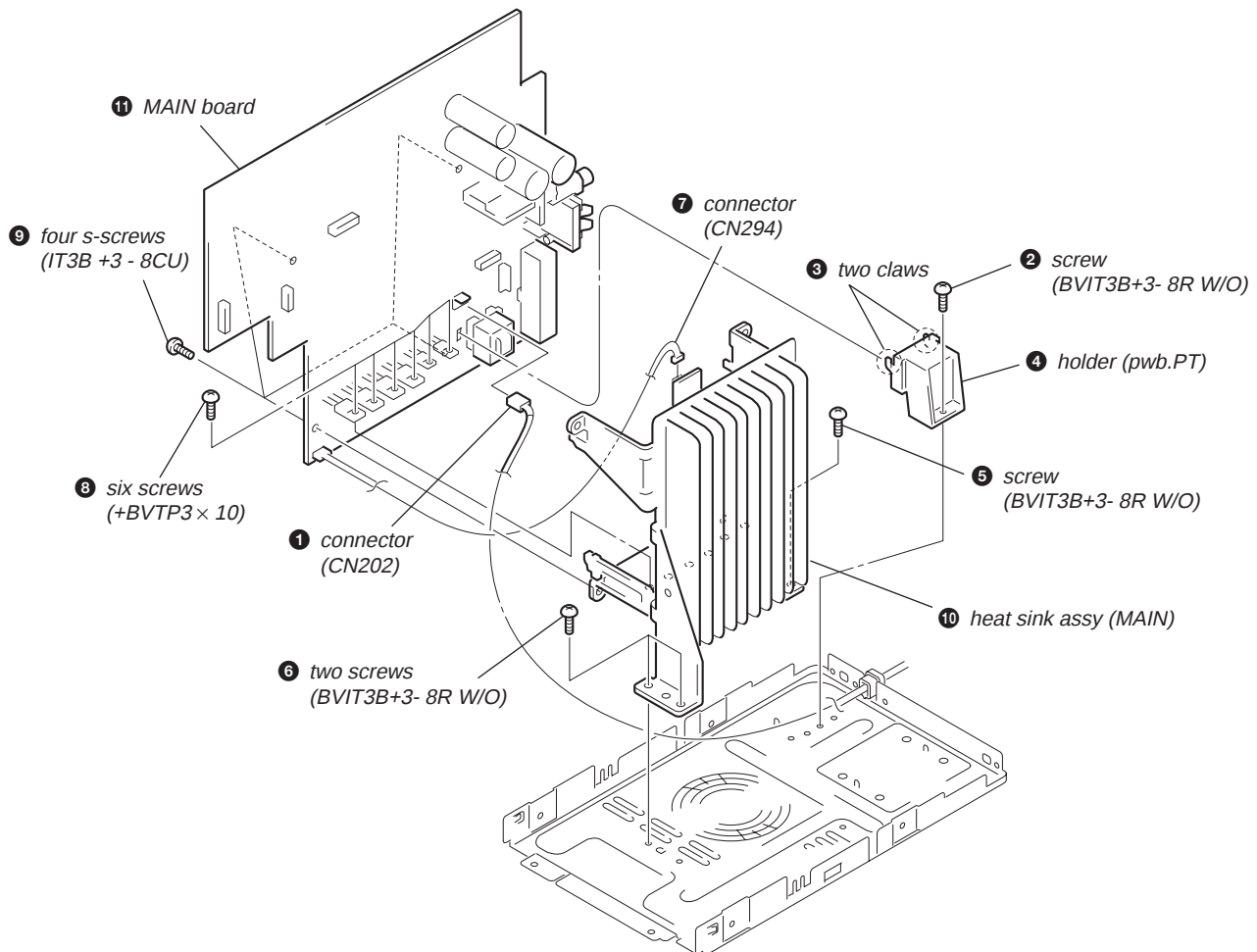


CX-LMN5

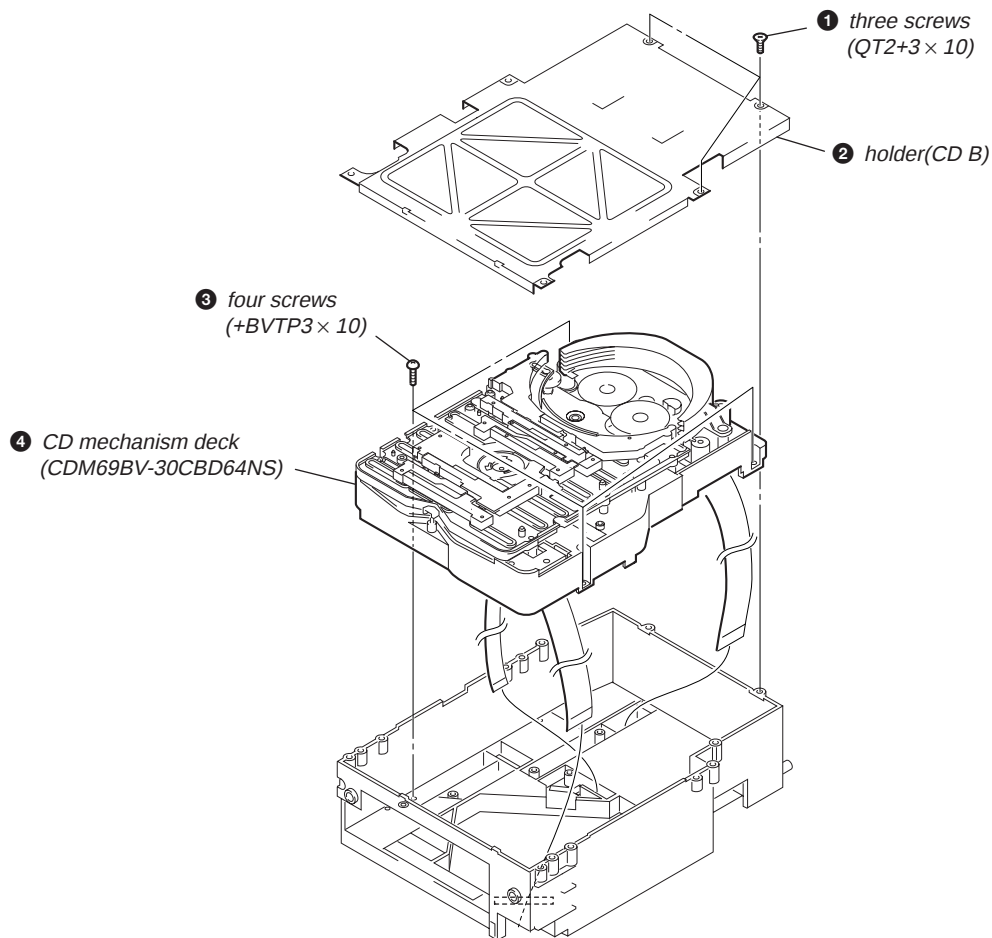
3-7. Power Transformer



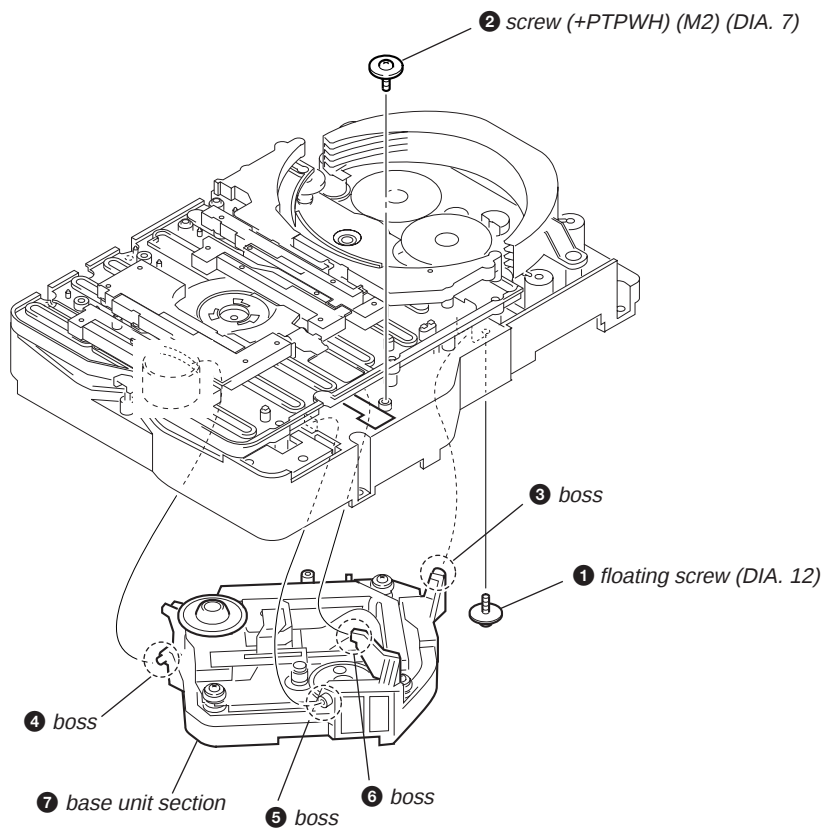
3-8. MAIN Board Section



3-9. CD Mechanism Deck (CDM69BV-30CBD64NS)

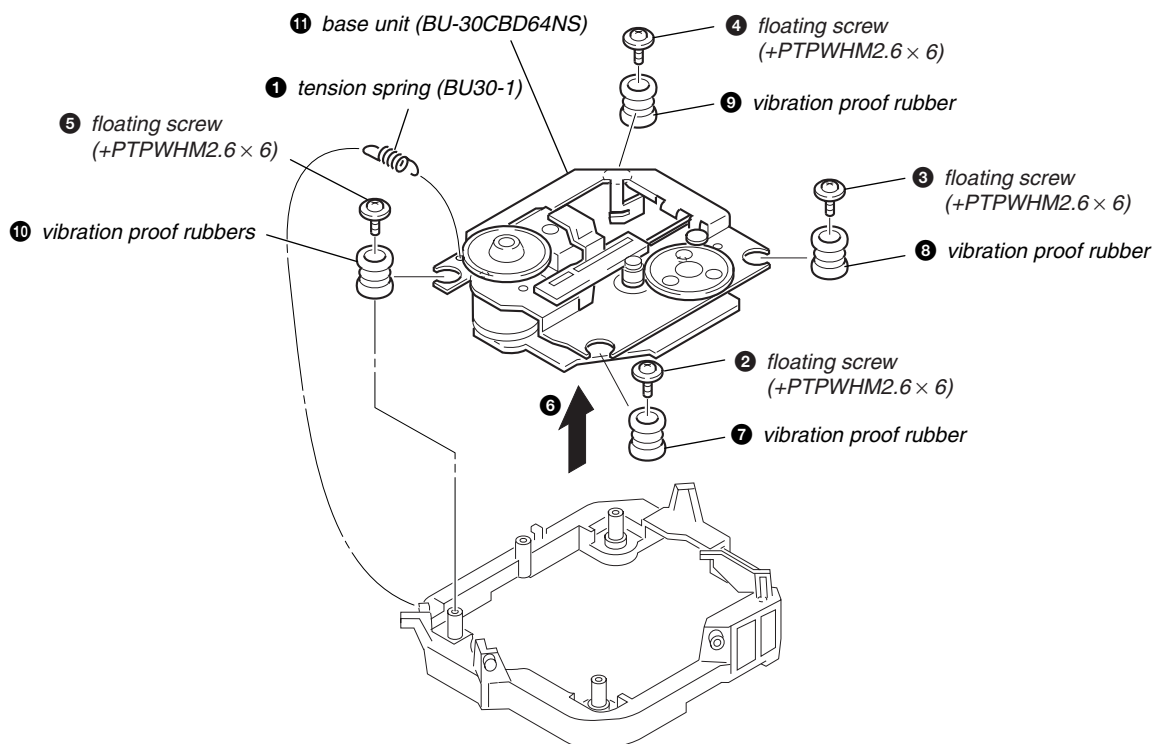


3-10. Base Unit Section

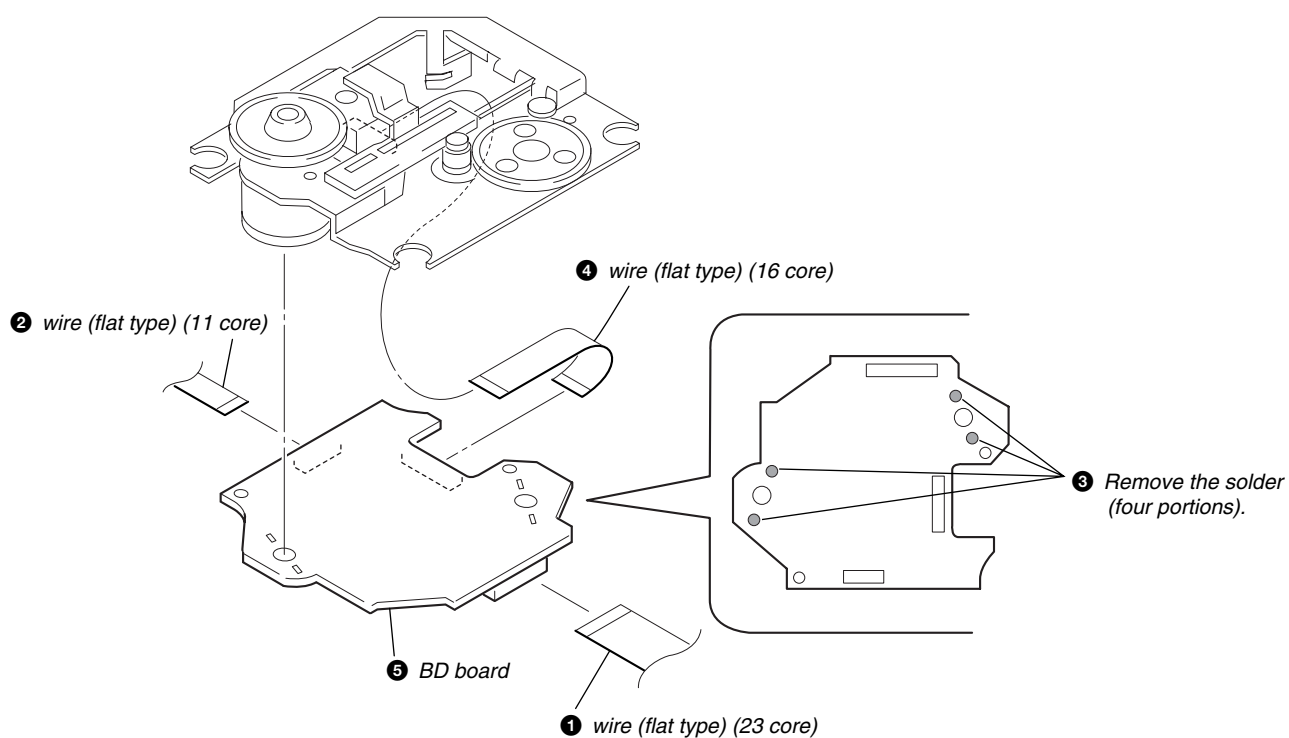


CX-LMN5

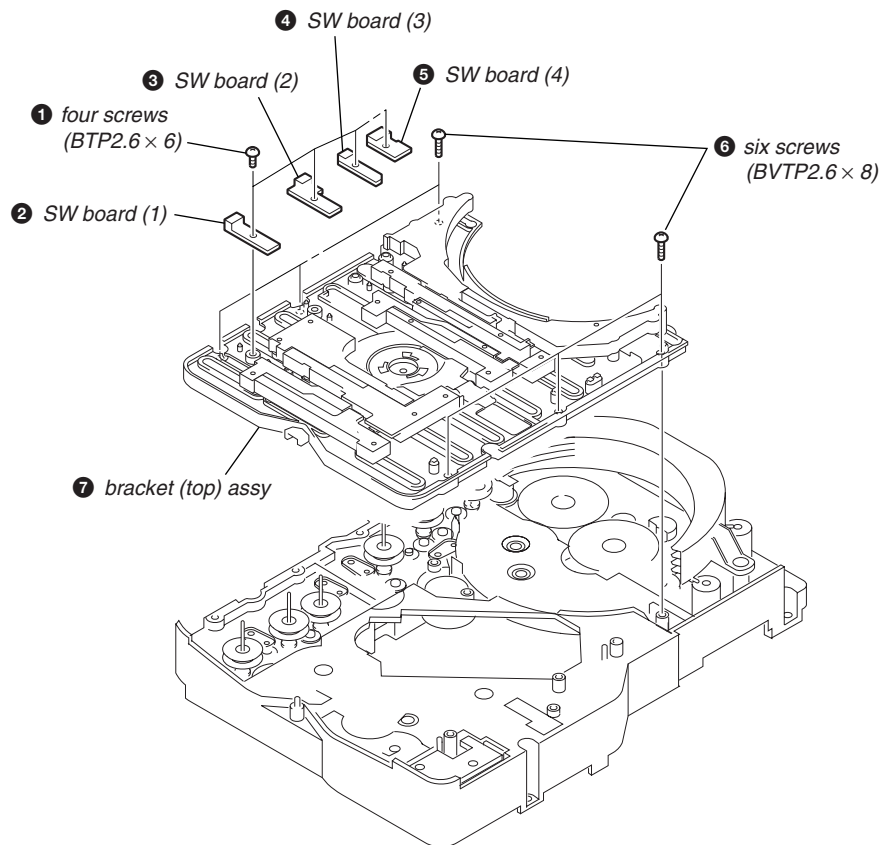
3-11. Base Unit (BU-30CBD64NS)



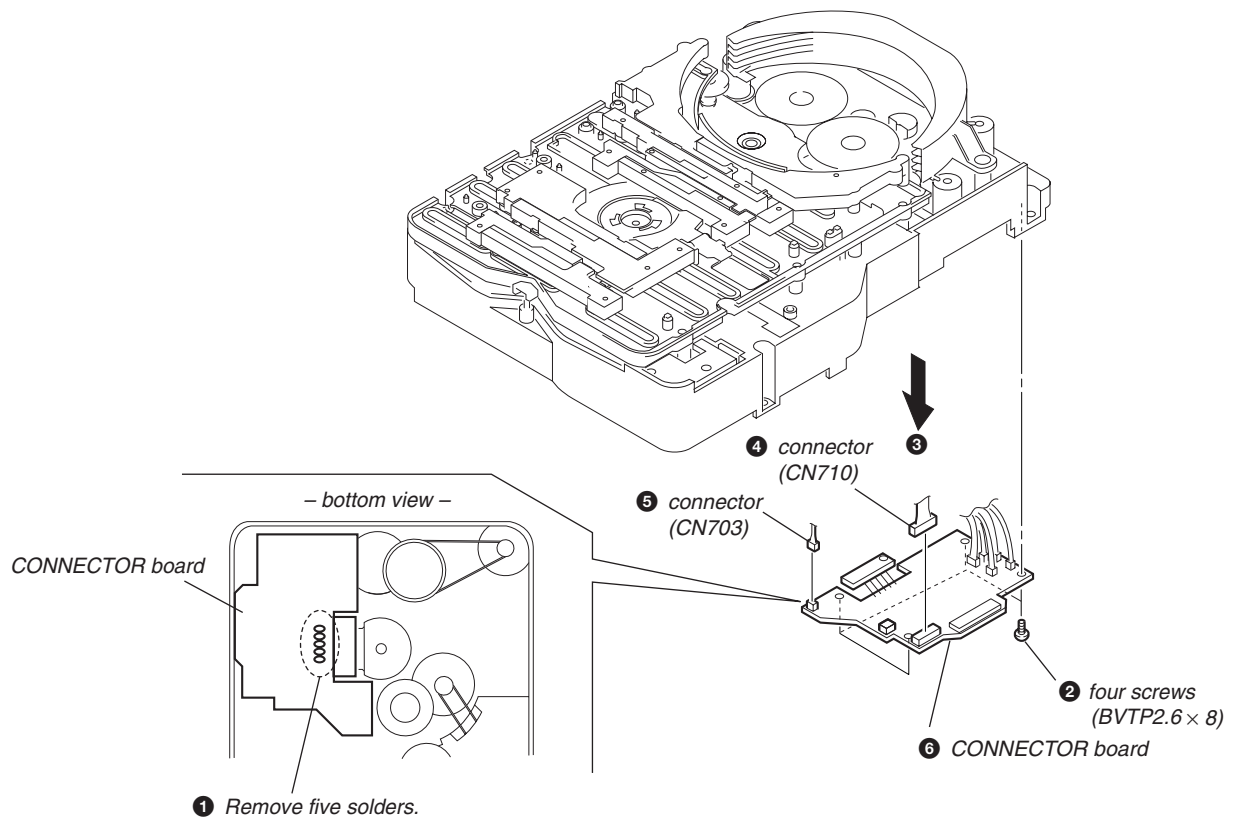
3-12. BD Board

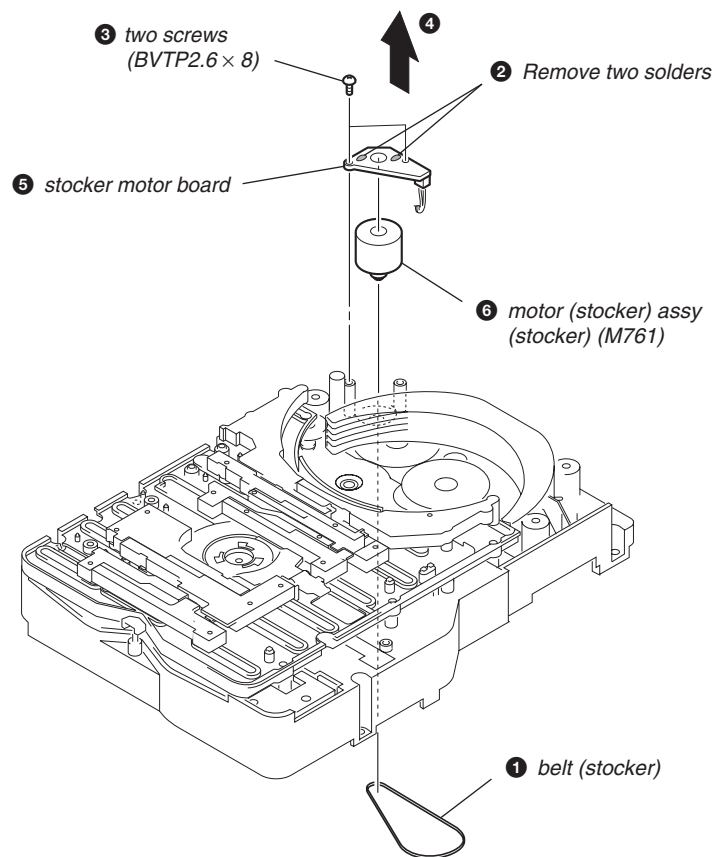
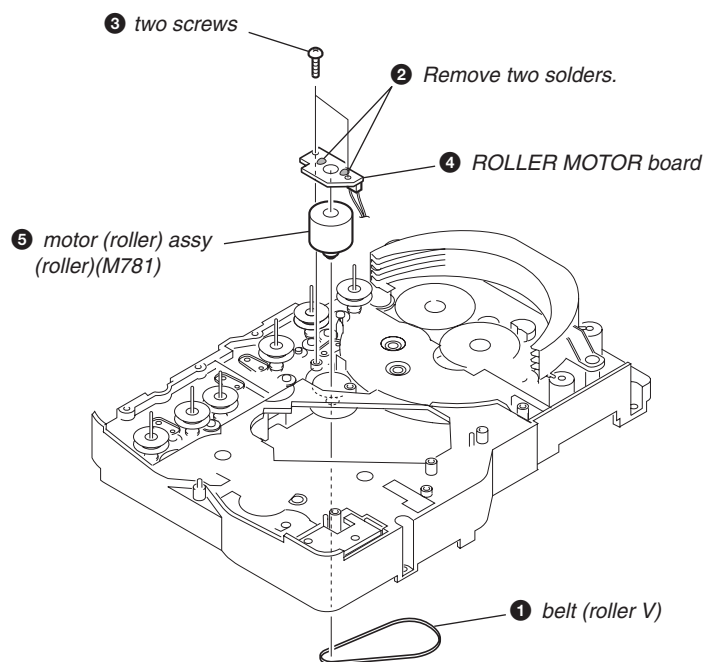


3-13. SW Board, Bracket (TOP) Assy

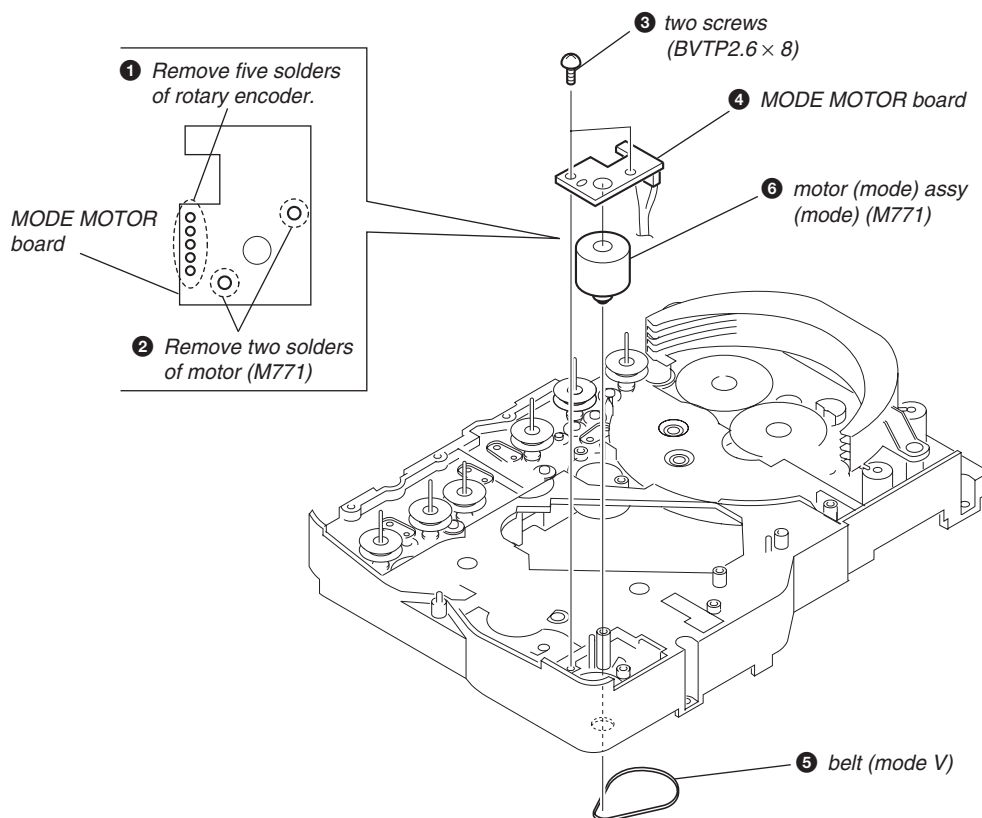


3-14. CONNECTOR Board

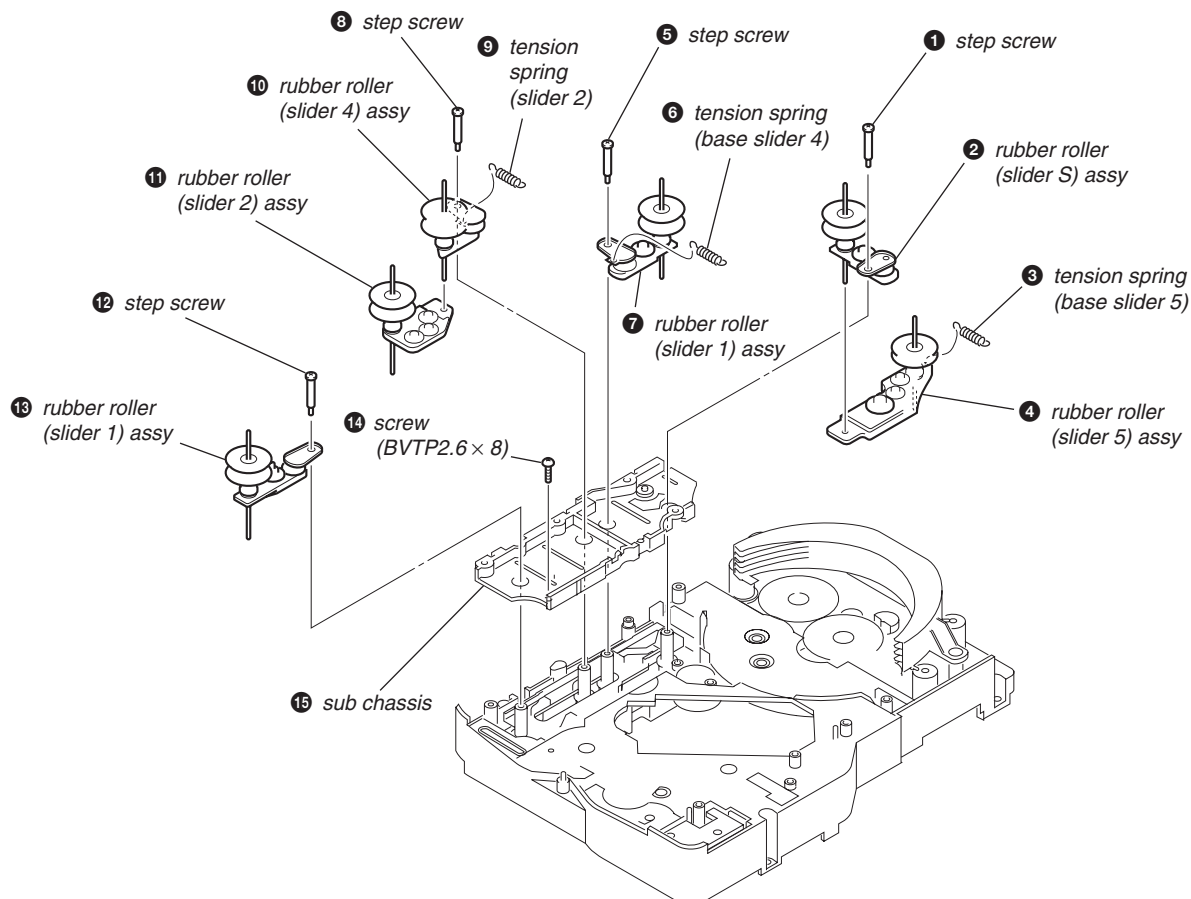


CX-LMN5**3-15. Motor (Stocker) Assy (Stocker)(M761)****3-16. Motor (Roller) Assy (Roller)(M781)**

3-17. Motor (Mode) Assy (Mode)(M771)

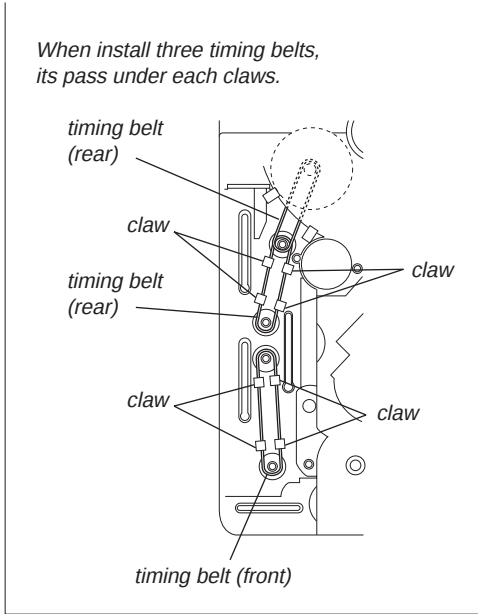
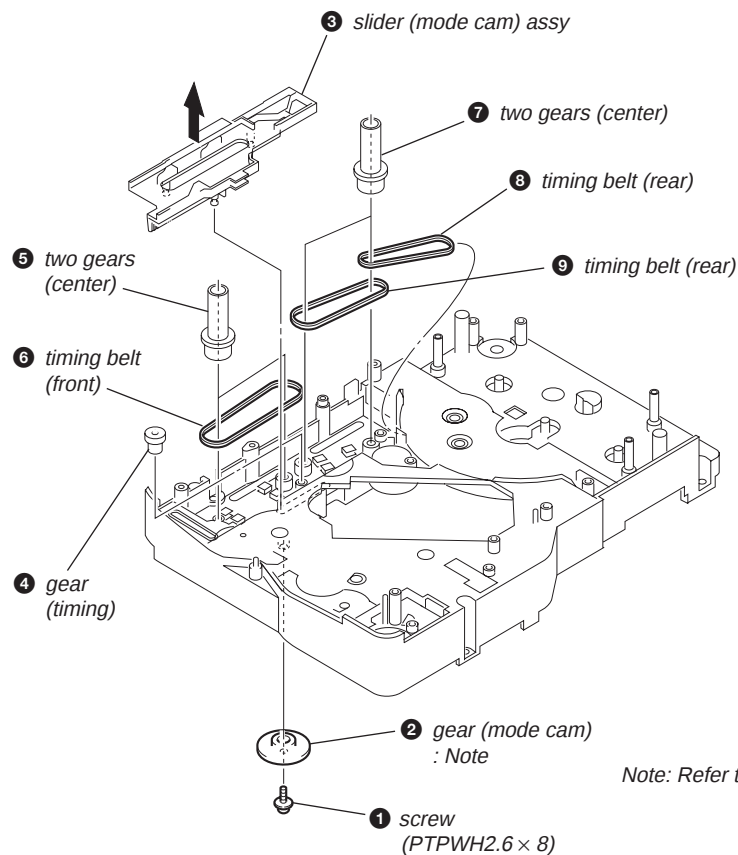


3-18. Rubber Roller (Slider) Assy



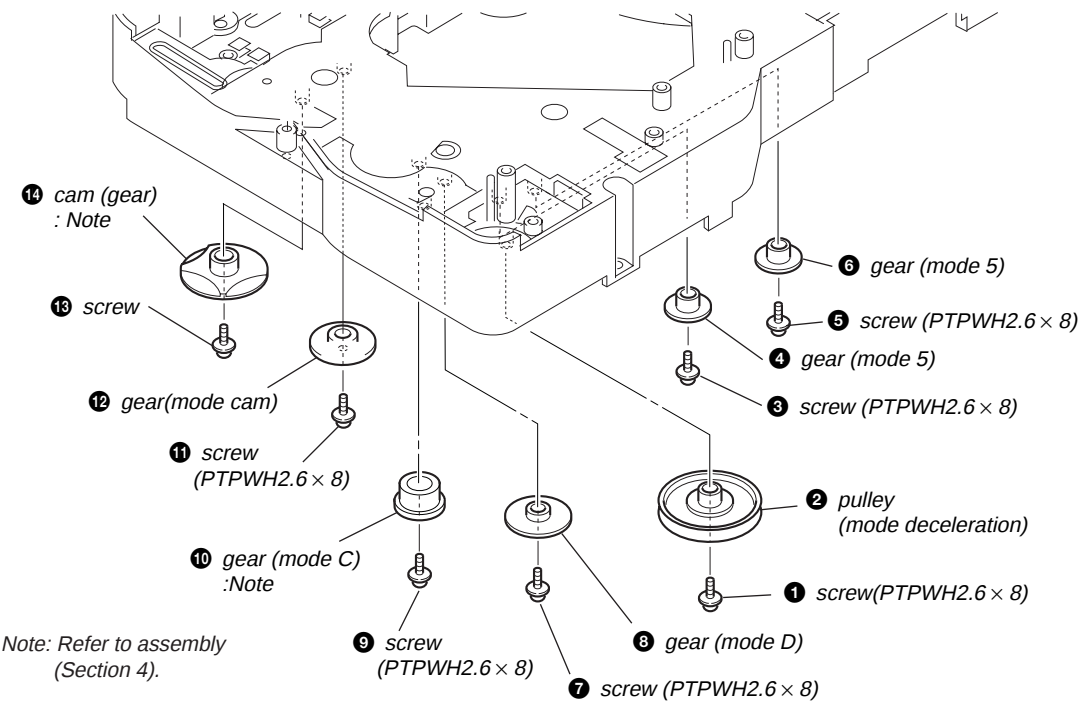
CX-LMN5

3-19. Timing Belt (Front/Rear)



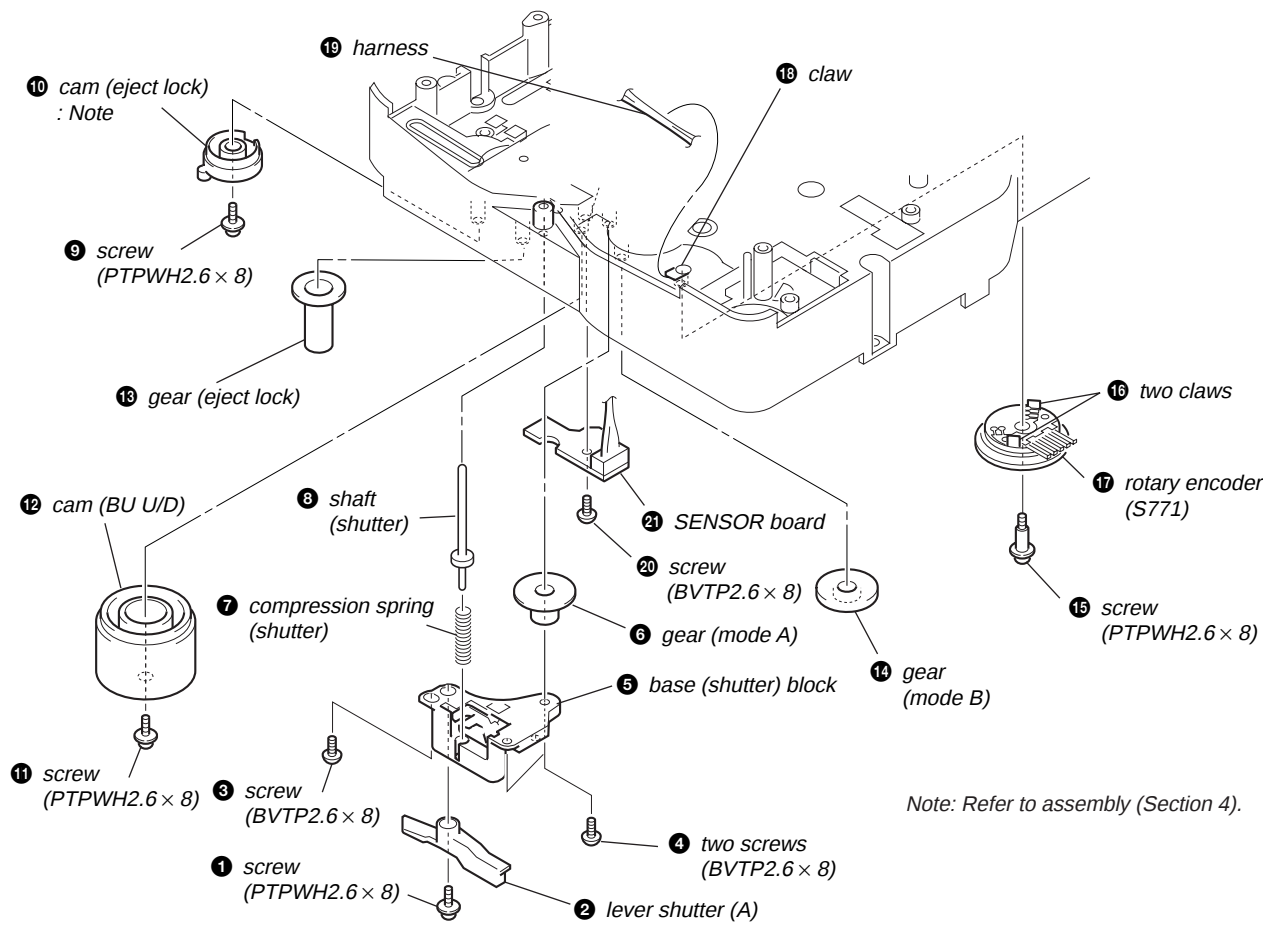
Note: Refer to assembly (Section 4)

3-20. Cam (Gear)



Note: Refer to assembly
(Section 4).

3-21. SENSOR Board

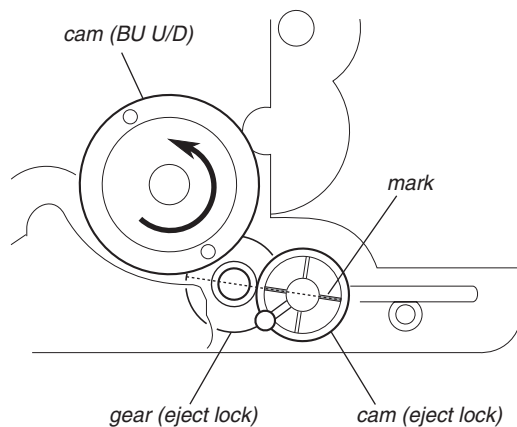


CX-LMN5**SECTION 4
ASSEMBLY**

• This set can be assembled in the order shown below.

4-1. How to Install the Cam (EJECT LOCK)

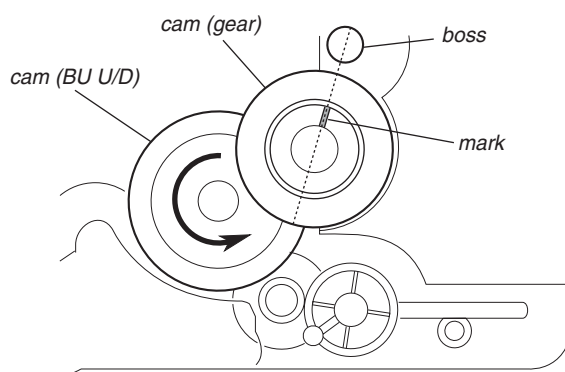
- ❶ Rotate the cam (BU U/D) fully in the direction of arrow.
- ❷ Engage the gear (eject lock) and the gear of the cam (eject lock) aligning the mark with the center of the gear (eject lock).



– bottom view • front –

4-2. How to Install the Cam (GEAR)

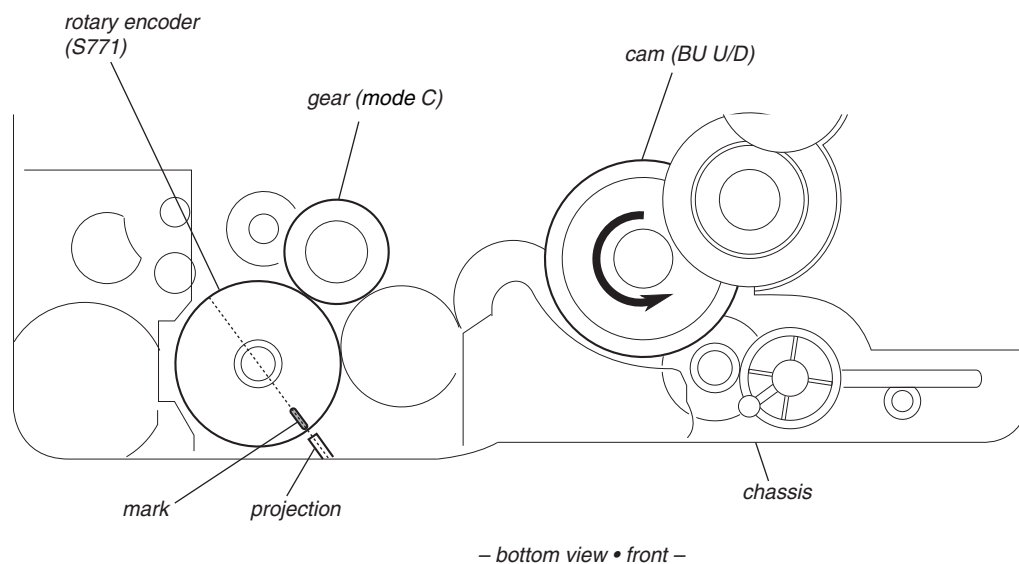
- ❶ Check that the cam (BU U/D) can not be rotated in the direction of arrow.
- ❷ Align the mark on the cam (gear) with the boss as shown in the figure and install the cam (gear).



– bottom view • front –

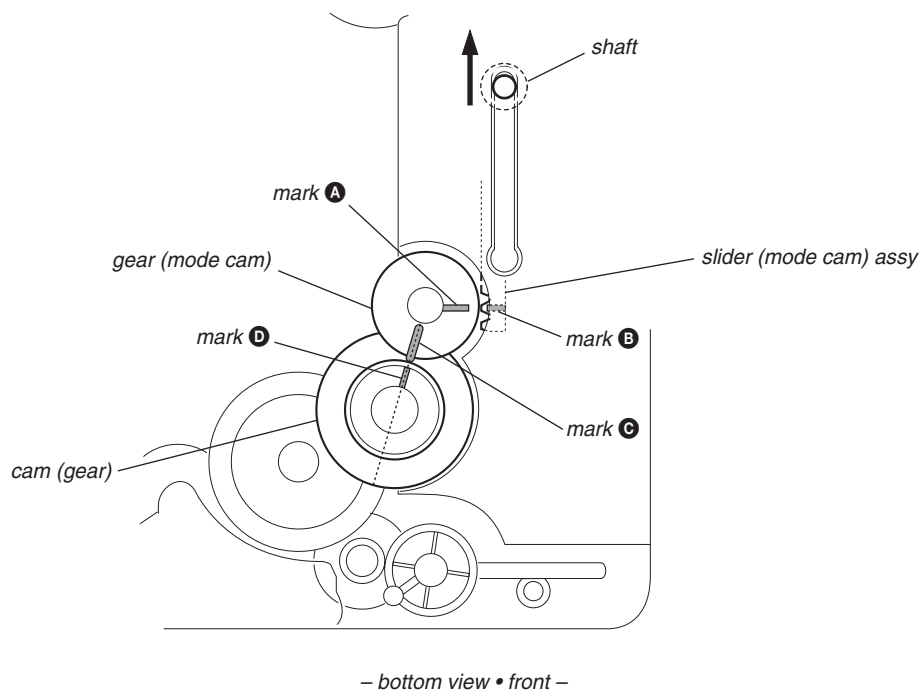
4-3. How to Install the Gear (MODE C)

- ❶ Align the mark on the rotary encoder (S771) with the projection of the assy.
- ❷ Check that the cam (BU U/D) can not be rotated in the direction of arrow.
- ❸ Install the gear (mode C)



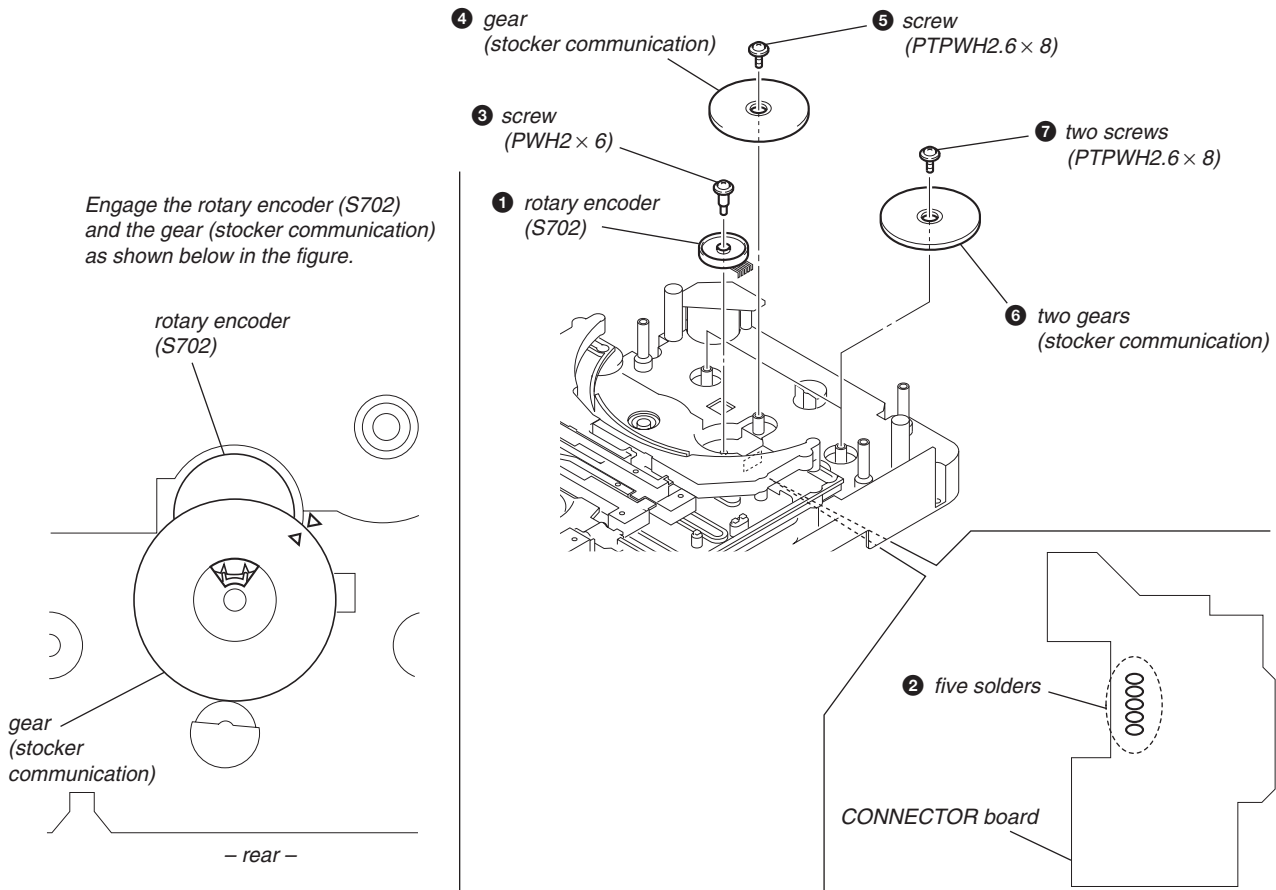
4-4. How to Install the Gear (MODE CAM)

- ❶ Slide the shaft in the direction of arrow.
- ❷ Align mark **A** on the gear (mode cam) with mark **B** on the slider (mode cam) assy, then install the gear (mode cam).
- ❸ Check that mark **C** on the gear (mode cam) is in alignment with mark **D** on the cam (gear).

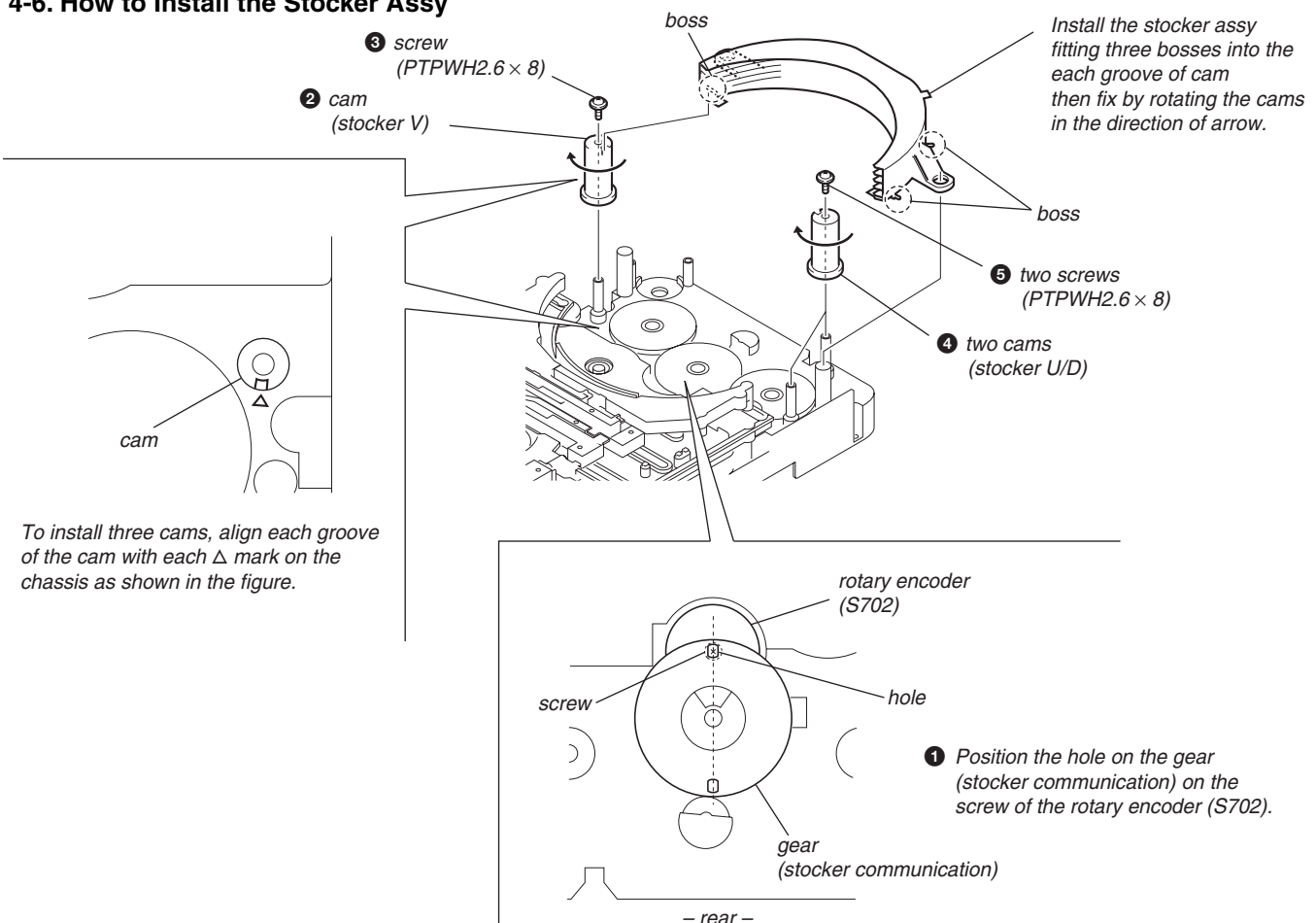


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4-5. How to Install the Rotary Encoder (S702), Gear (STOCKER COMMUNICATION)



4-6. How to Install the Stoker Assy



SECTION 5 TEST MODE

[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. Press the **[POWER]** button to turn off the main power.
2. While depressing the **[■]** button, press the **[POWER]** button.
3. The fluorescent indicator tube does not display any message and the set is reset.

[Version Display Mode]

- * The version of the microcomputer is displayed.

Procedure:

1. Press the **[POWER]** button to turn the set on.
2. To enter the test mode, press two buttons **[■]** and **[POWER]** simultaneously for more than five seconds. The version of the microcomputer is displayed.

[FL Tube Check]

- * All fluorescent segments are tested.

Procedure:

1. Insert a disc, and extract an AC plug.
2. While depressing the **[▶▶]** (CD) button, insert an AC plug to enter the test mode.
3. The message "CD TEST" is displayed, the initialization is performed.

Then all segments of the fluorescent indicator tube are turned on.

[CD Ship 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 **[POWER]** button to turn the set on.
2. Set the FUNCTION to CD.
3. Press the **[■]** button for more than five seconds.
4. After a message "MECHA LOCK" is displayed on the fluorescent indicator tube, the CD ship mode is set and the power is turned off.

[Disc Tray Lock]

The disc tray lock function for the antitheft of a demonstration disc in the store is equipped.

Setting Procedure :

1. Press the **[POWER]** button to turn the set on.
2. Press two buttons of **[■]** and **[▲]** (CD EJECT) simultaneously for five seconds.
3. The message "LOCKED" is displayed and the tray is locked.

Releasing Procedure :

1. Press two buttons of **[■]** and **[▲]** (CD EJECT) simultaneously for five seconds again.
2. The message "UNLOCKED" is displayed and the tray is unlocked.

Note : When "LOCKED" is displayed, the tray lock is not released by turning power on/off with the **[POWER]** button.

[AMP Test]

- * This mode is used to check the function of the amplifier.

Procedure:

1. Extract an AC plug.
2. While depressing the **[AUX]** button, insert an AC plug to enter the AMP test mode. The message "AMP TEST" is displayed.
3. The message "Volume MAX" is displayed, when the **[VOLUME]** knob is rotated clockwise. The message "Volume 0" is displayed, when the **[VOLUME]** knob is rotated counterclockwise.
4. Each time the **[BASS]** or **[TREBLE]** knob is turned, the message "EQ MAX", "EQ MIN" or "EQ FLAT" is displayed in this order.

[AM Channel Step 9 kHz/10kHz Selection Mode]

- * Either the 9 kHz step or 10 kHz step can be selected for the AM channel step. (EXCEPT AEP,UK)

Procedure:

1. Set the FUNCTION to AM.
2. While depressing the **[TUNER]** button, press the **[POWER]** button.
3. The channel step is changed over.

[CD Test Mode]

- * This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pickup.

Procedure:

1. Extract an AC plug.
2. While depressing the **[▶▶]** (CD) button, insert an AC plug to enter the CD test mode. The message "CD TEST" is displayed.
3. With the CD in stop status, press the **[▶▶]** button to move the pickup to outside track, or press the **[◀◀]** button to inside track.
4. When press the **[▶▶]** (CD) button, normal playback is performed.
5. Each time the **[▶▶]** (CD) button is pressed during normal playback, the tracking servo is switched on or off.
6. To exit this mode, either change to other functions or extract an AC plug.

[CD Repeat 5 Times Limit Release Mode]

Procedure:

1. Press the **[POWER]** button to turn the set on.
2. Select the FUNCTION to CD.
3. Press two buttons of **[▶▶]** and **[▶▶]** (CD) simultaneously.
4. The repeat all mark blinks and then repeat 5 times limit is released.

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SECTION 6 MECHANICAL ADJUSTMENTS

• TAPE MECHANISM DECK SECTION

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	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
FWD back tension	CQ-102C	0.15 – 0.6 mN • m 2 to 6 g • cm (0.03 – 0.08 oz • inch)
REV	CQ-102RC	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
REV back tension	CQ-102RC	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
FF/REV	CQ-201B	6.86 – 17.64 mN • m (70 to 179 g • cm) (0.98 – 2.49 oz • inch)
FWD tension	CQ-403A	9.8 mN • m (100 • cm or more) (1.4 oz • inch or more)
REV tension	CQ-403R	9.8 mN • m (100 • cm or more) (1.4 oz • inch or more)

SECTION 7 ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB = 0.775 V

Precaution

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.

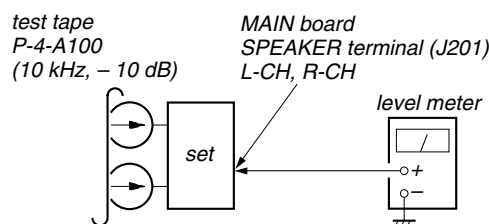
• Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, – 10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Check

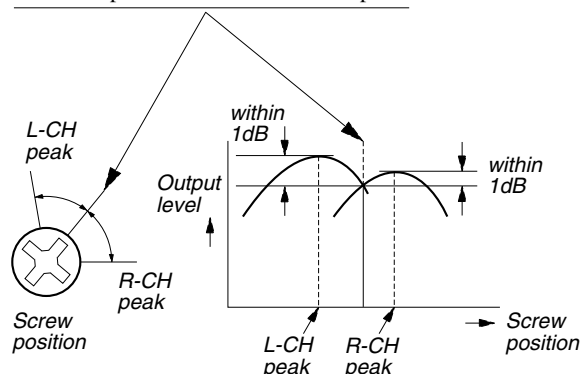
Record/Playback Head Azimuth Adjustment

Procedure:

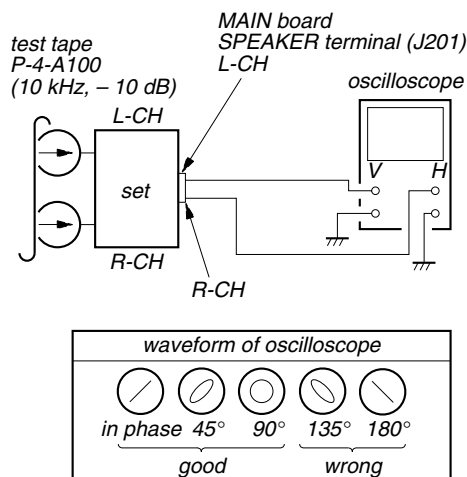
1. Mode: Playback



2. 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.

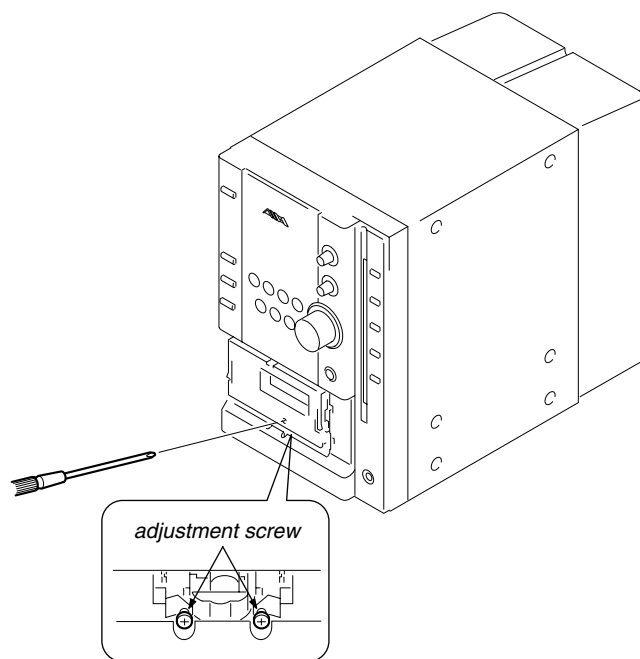


3. Mode: Playback



4. After the adjustments, apply suitable locking compound to the parts adjusted.

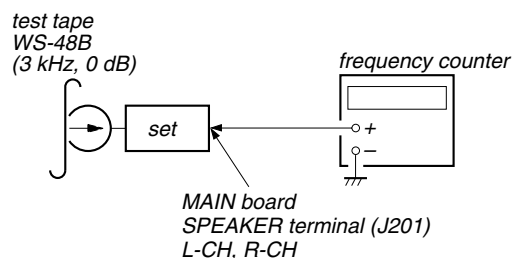
Adjustment Location: Record/Playback/Erase Head



Note: Refer to "3-6. Cassette Panel" (see page 9)

Tape Speed Check

Mode: Playback



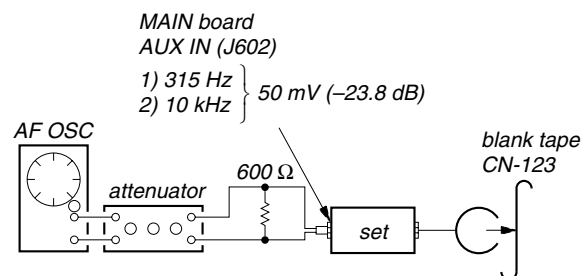
1. Insert the WS-48B into the deck.
2. Press the button on the deck.
3. Confirm that the frequency counter reads $3,000 \pm 90$ Hz.

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

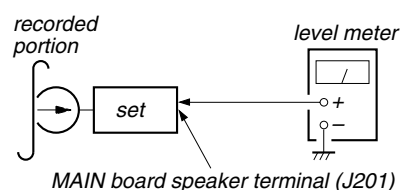
Record Bias Adjustment

Procedure:

1. Record mode



2. Mode: Playback
i-Bass OFF
BASS 0
TREBLE 0

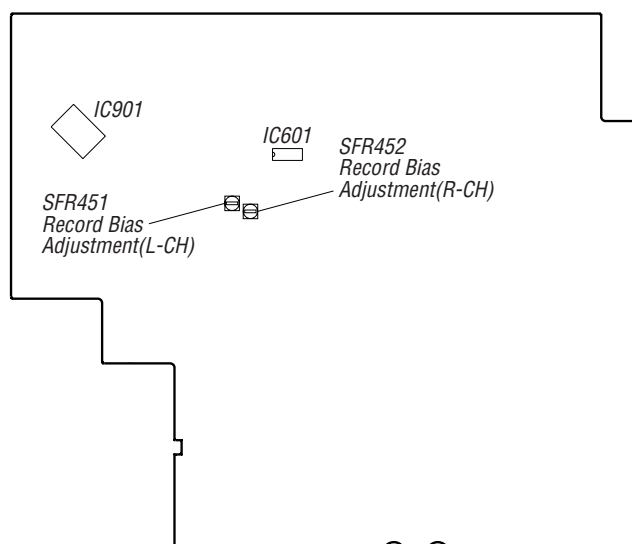


3. Confirm playback the signal recorded in step 1 become adjustment level as follows.
4. If these levels do not adjustment level, adjustment the SFR451 (L-CH) and SFR452 (R-CH) to repeat steps 1 and 4.

Adjustment level: Playback output of 315 Hz to playback output of 10 kHz: 0 ± 1.0 dB (0 ± 4.5 mV).

Adjustment Location: MAIN board

[MAIN BOARD] – Component Side –



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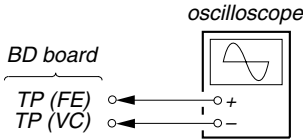
CD SECTION

Note:

1. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
2. Use an oscilloscope with more than 10MΩ impedance.
3. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S-curve Check

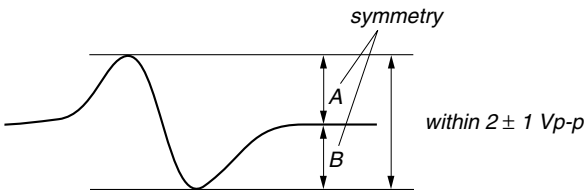
Connection:



Procedure:

1. Connect an oscilloscope to test point TP (FE) and TP (VC) on the BD board.
2. While depressing the (CD) button, insert an AC plug.
3. Put the disc (YEDS-18) in and press the (CD) button and actuate the focus search. (actuate the focus search when disc table is moving in and out)
4. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2 ± 1 Vp-p.

S-curve waveform

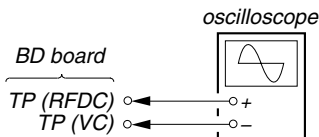


- Note:**
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
 - Take sweep time as long as possible and light up the brightness to obtain best waveform.

Checking Location: BD board (Side B)

RFDC Level Check

Connection:

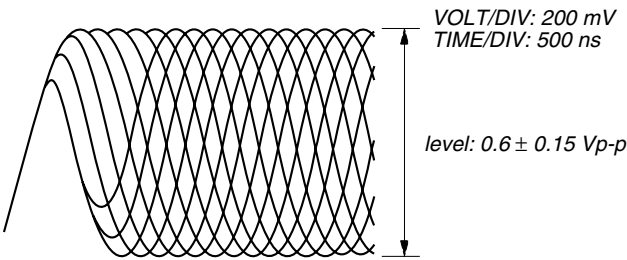


Procedure:

1. Connect an oscilloscope to test point TP (RFDC) and TP (VC) on the BD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFDC signal level is correct or not.

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

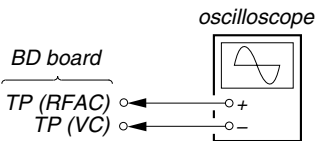
RFDC signal waveform



Checking Location: CD board (Conductor side)

RFAC Level Check

Connection:

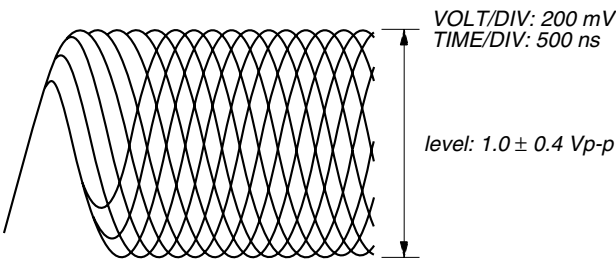


Procedure:

1. Connect an oscilloscope to test point TP (RFAC) and TP (VC) on the BD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFAC signal level is correct or not.

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

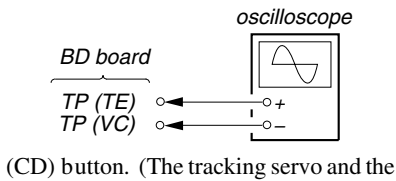
RFAC signal waveform



Checking Location: BD board (Side B)

E-F Balance Adjustment

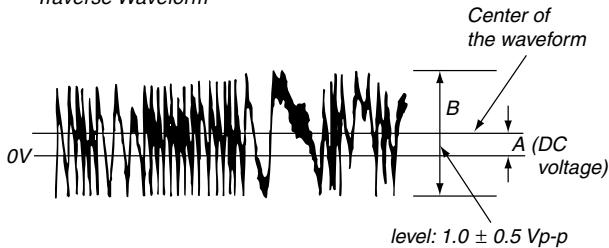
Connection:



Procedure:

1. Connect an oscilloscope to test point TP (TE) and TP (VC) on the BD board.
2. AC is put in pushing (CD) button to enter the CD test mode.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Press the (CD) button. If it plays, press the (CD) button again. (The tracking servo and the sledding servo are turned OFF)
5. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform. Confirm the following :
 $A/B \times 100 = \text{less than } \pm 10\%$

Traverse Waveform

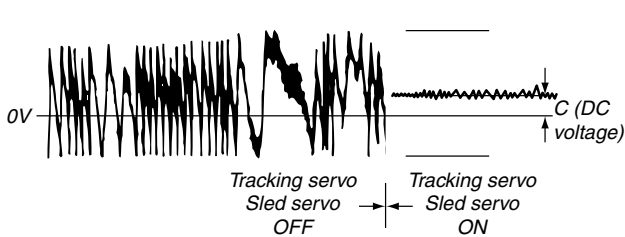


6. Press the (CD) button. (The tracking servo and sledding servo are turned ON)
 Rotate RV101 on BD board and adjust the C (DC voltage) is almost equal to the A (DC voltage) in step 4.
7. To exit from this mode, turn the power off.

Notes:

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

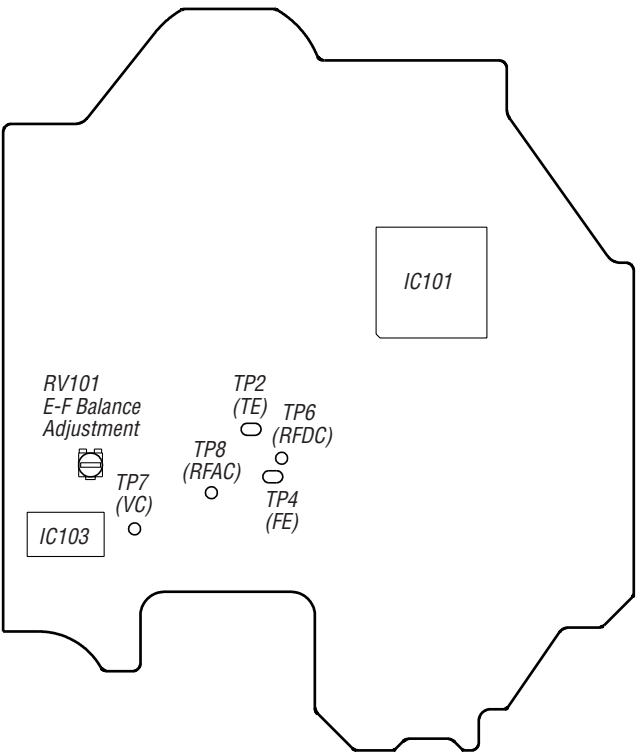
Traverse Waveform



Checking Location: BD board (Side B)

Checking Location:

– BD BOARD (Side B) –

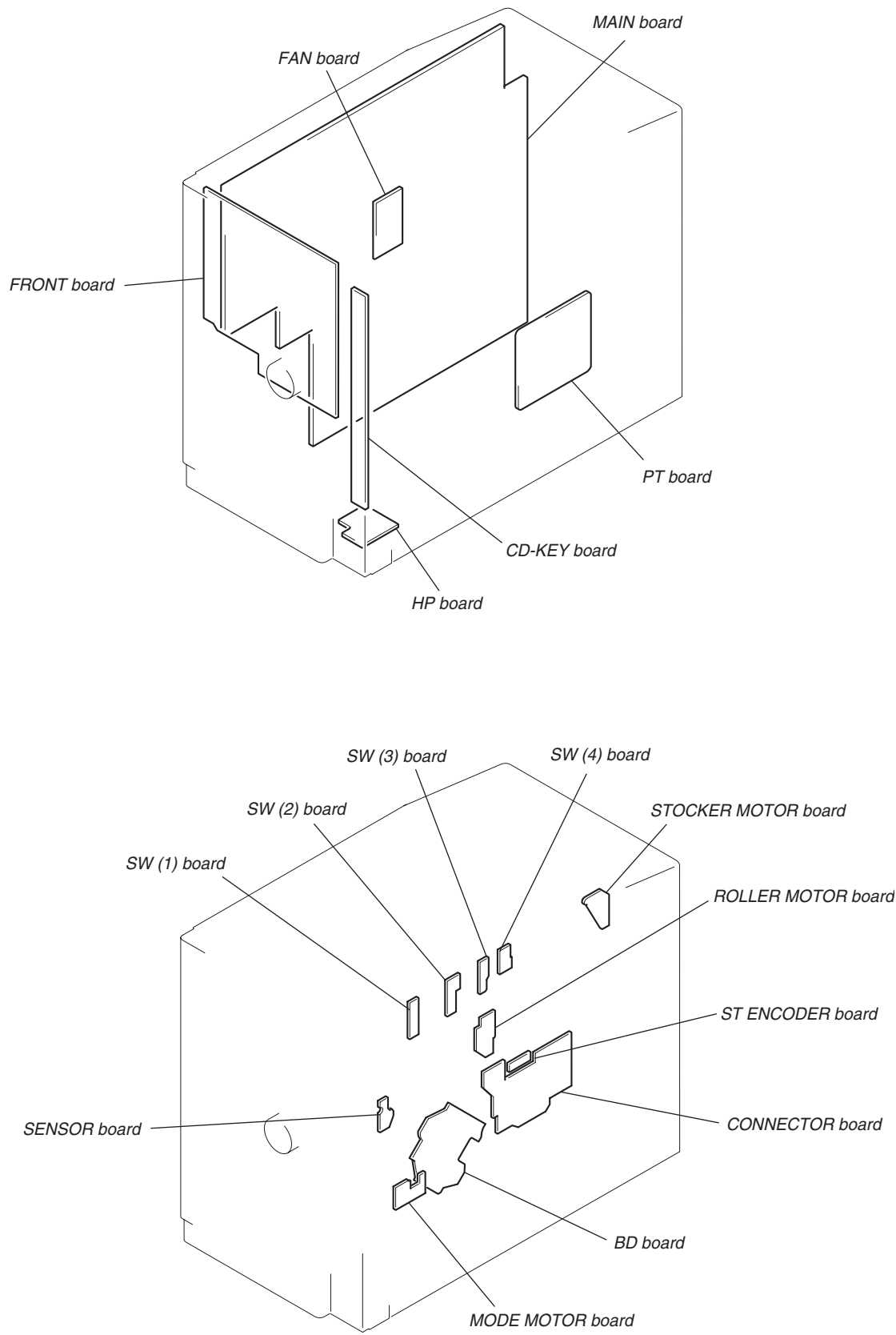


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MEMO

SECTION 8
DIAGRAMS

• Circuit Boards Location



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

For schematic diagrams.

- Note:**
- All capacitors are in μF unless otherwise noted. pF : μF 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.
 - * : Impossible to measure
 - Δ : internal component.
 - : nonflammable resistor.
 - : fusible resistor.
 - : 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.

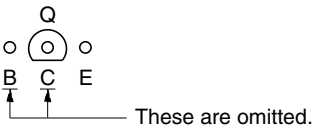
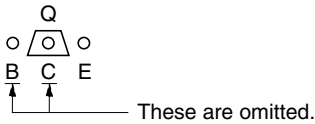
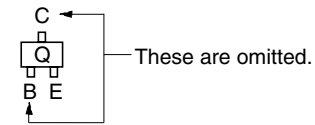
- : B+ Line.
- : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : Power on
- Voltages are taken with a VOM (Input impedance $10\text{M}\Omega$).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - : TUNER
 - : CD
 - : AUX
 - : PB (TAPE)
 - : REC (TAPE)
 - : DIGITAL OUT
- Abbreviation
 - AUS : Australian model.
 - CND : Canadian model.
 - SP : Singapore model.
 - TW : Taiwan model.
 - KR : Korean model.
 - TH : Thai model.

For printed wiring boards.

- Note:**
- : parts extracted from the component side.
 - : parts extracted from the conductor side.
 - Δ : internal component.
 - : Pattern from the side which enables seeing.

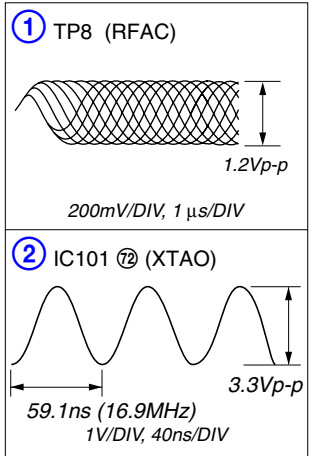
Caution:
Pattern face side: Parts on the pattern face side seen from the pattern face are indicated.
(Conductor Side)
Parts face side: Parts on the parts face side seen from the parts face are indicated.
(Component Side)

• Indication of transistor

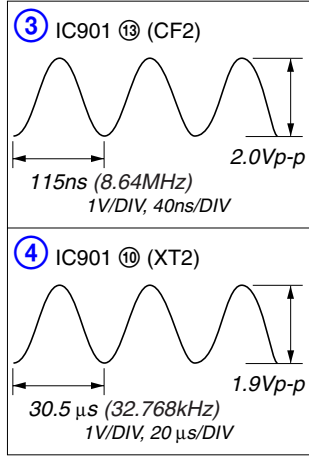


• Waveforms

– BD Board –



– MAIN Board –



8-1. Block Diagram — BD, Changer Section —

OPTICAL PICK-UP BLOCK

IC103 RF AMP

IC102 MOTOR/COIL DRIVE

IC101 DIGITAL SERVO DIGITAL SIGNAL PROC.

IC104 D/A CONV. MP3 DECODER

IC901 (1/2) SYSTEM CONTROLLER

IC721 STOCKER MOTOR DRIVE

IC711 ROLLER MOTOR DRIVE

IC701 MODE MOTOR DRIVE

S771 ROTARY ENCODER (MODE)

S702 ROTARY ENCODER (STOCKER POSITION)

S711 (DISC INSERT(8/12cm))

S713 (DISC IN (8/12cm))

S714 (DISC IN (8cm))

S715 (DISC OUT)

S718 (STOCKING)

S717 (DISC POSITION)

S716 (STOCKER IN/OUT)

Q731 LEVEL SHIFT

IC751 DISC INSERT DETECT SENSOR

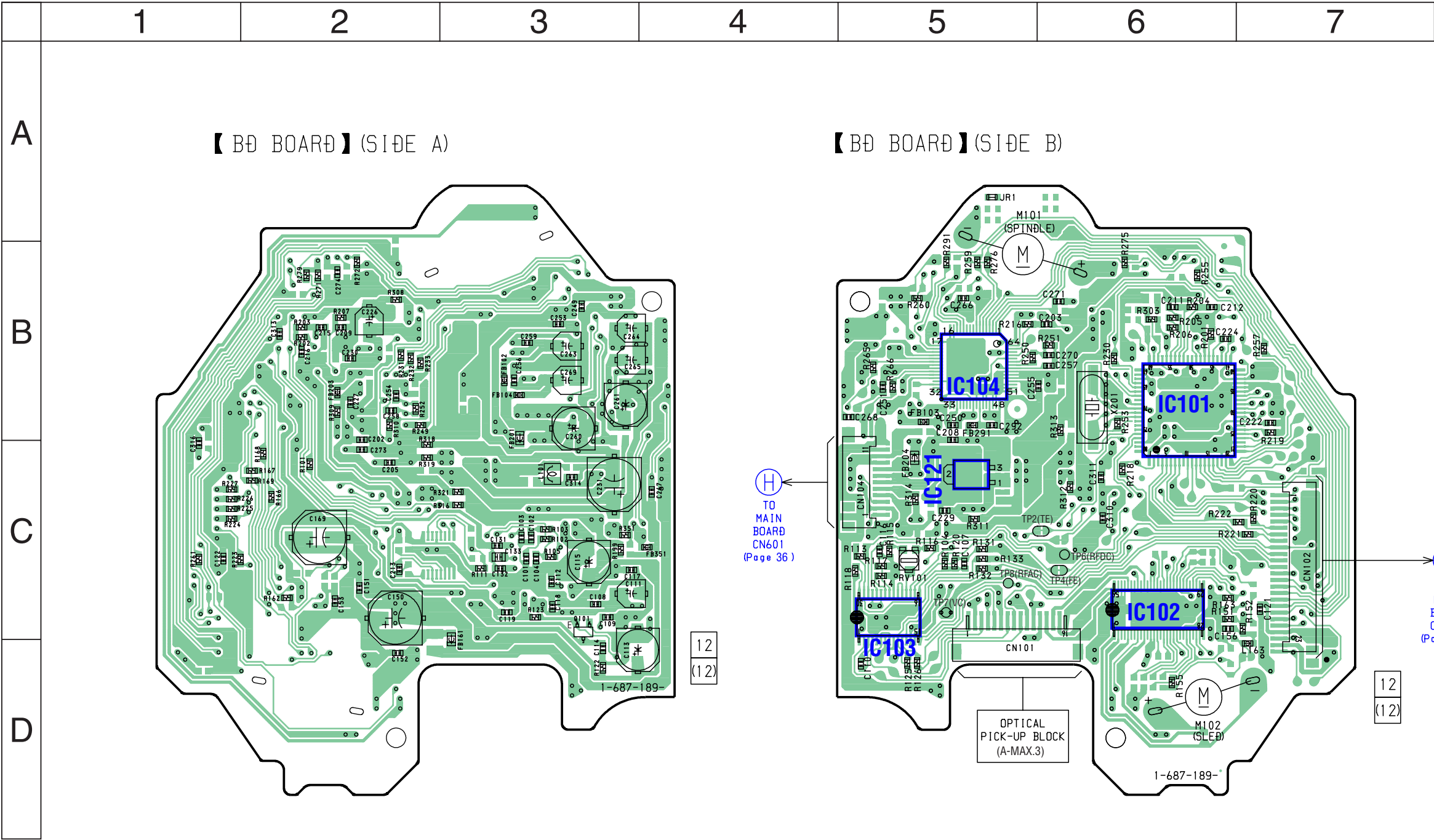
IC121 +2.5V REG

Legend:

- Signal Path
- ⏏ : CD
- ⏏ : DIGITAL OUT

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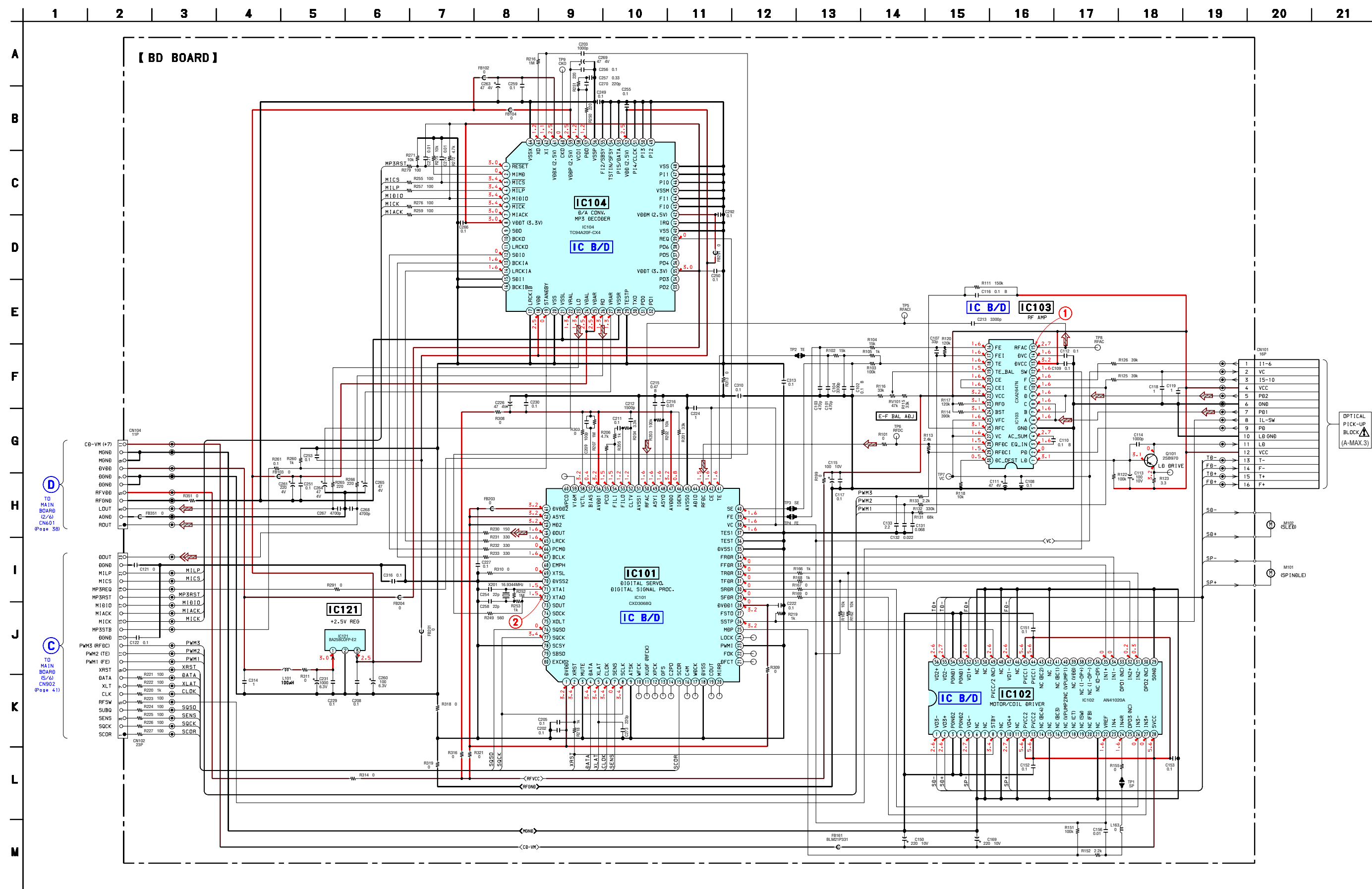
8-2. Printed Wiring Boards — BD Section — • See page 27 for Circuit Boards Location. •  : Uses unleaded solder.



• Semiconductor Location

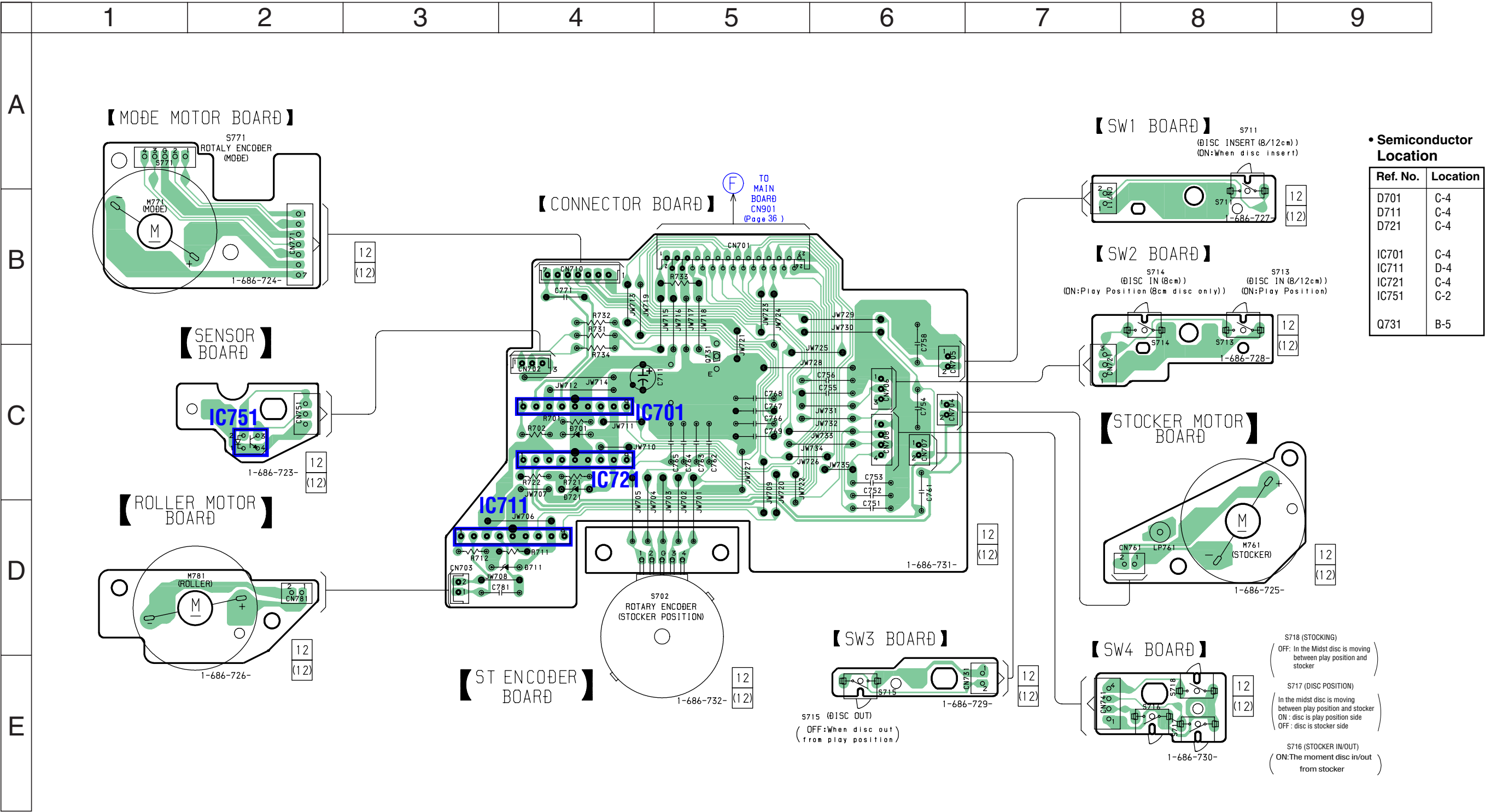
Ref. No.	Location
IC101	B-6
IC102	C-6
IC103	C-5
IC104	B-5
IC121	C-5
Q101	C-3

8-3. Schematic Diagram — BD Section — • See page 44 for IC Block Diagrams. • See page 27 for Waveforms.

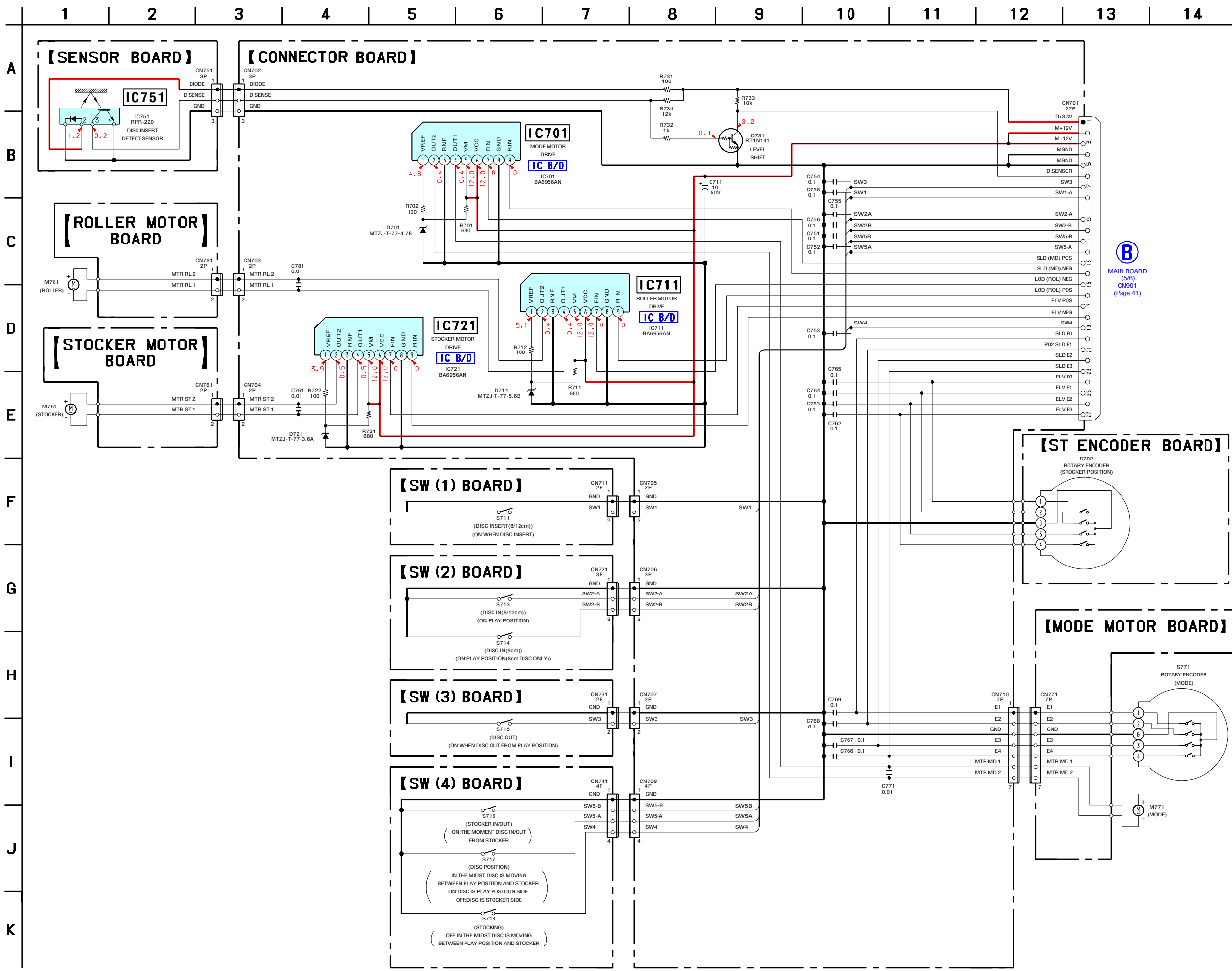


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8-4. Printed Wiring Boards — Changer Section — • See page 27 for Circuit Boards Location. •  : Uses unleaded solder.



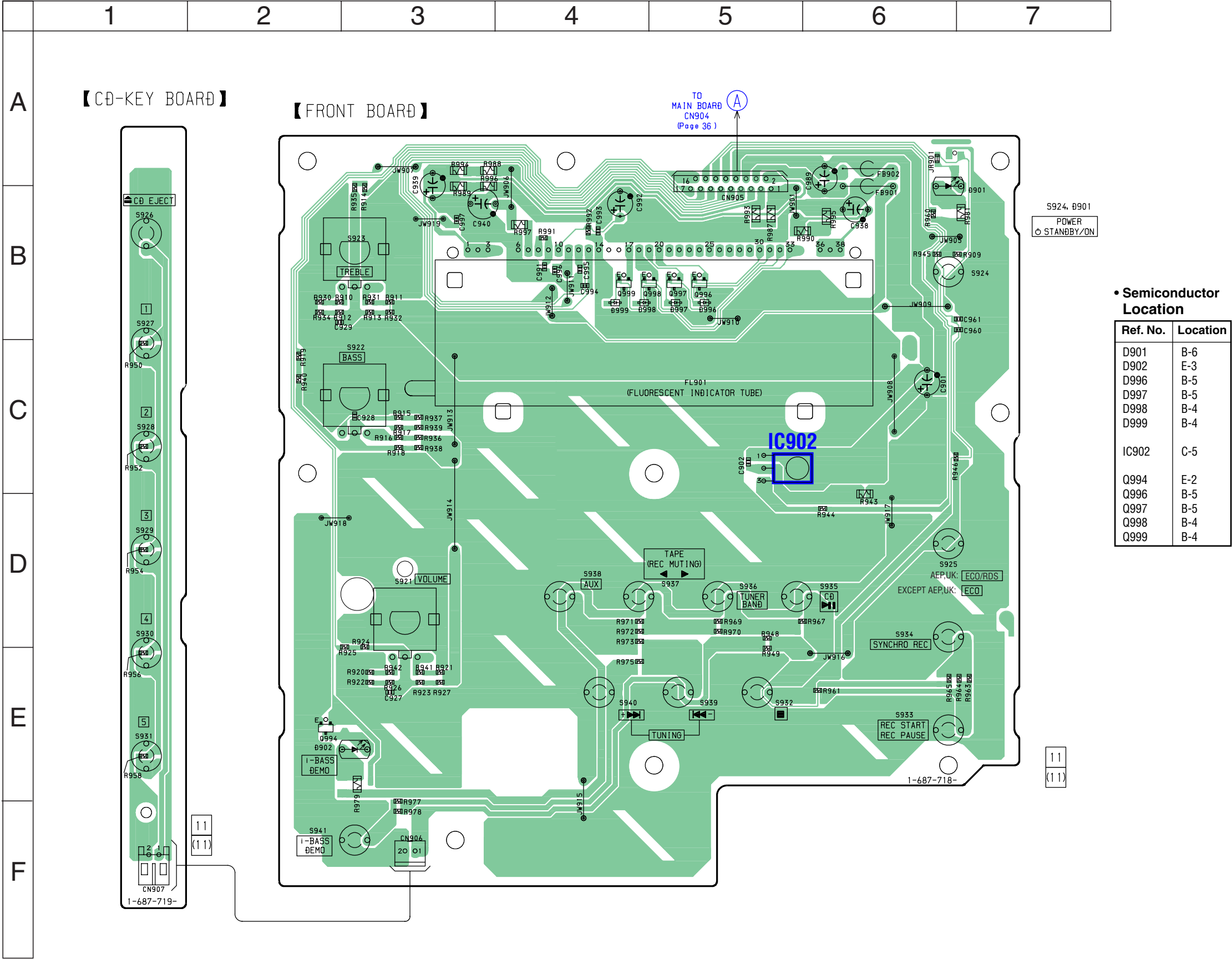
8-5. Schematic Diagram — Changer Section — • See page 46 for IC Block Diagrams.



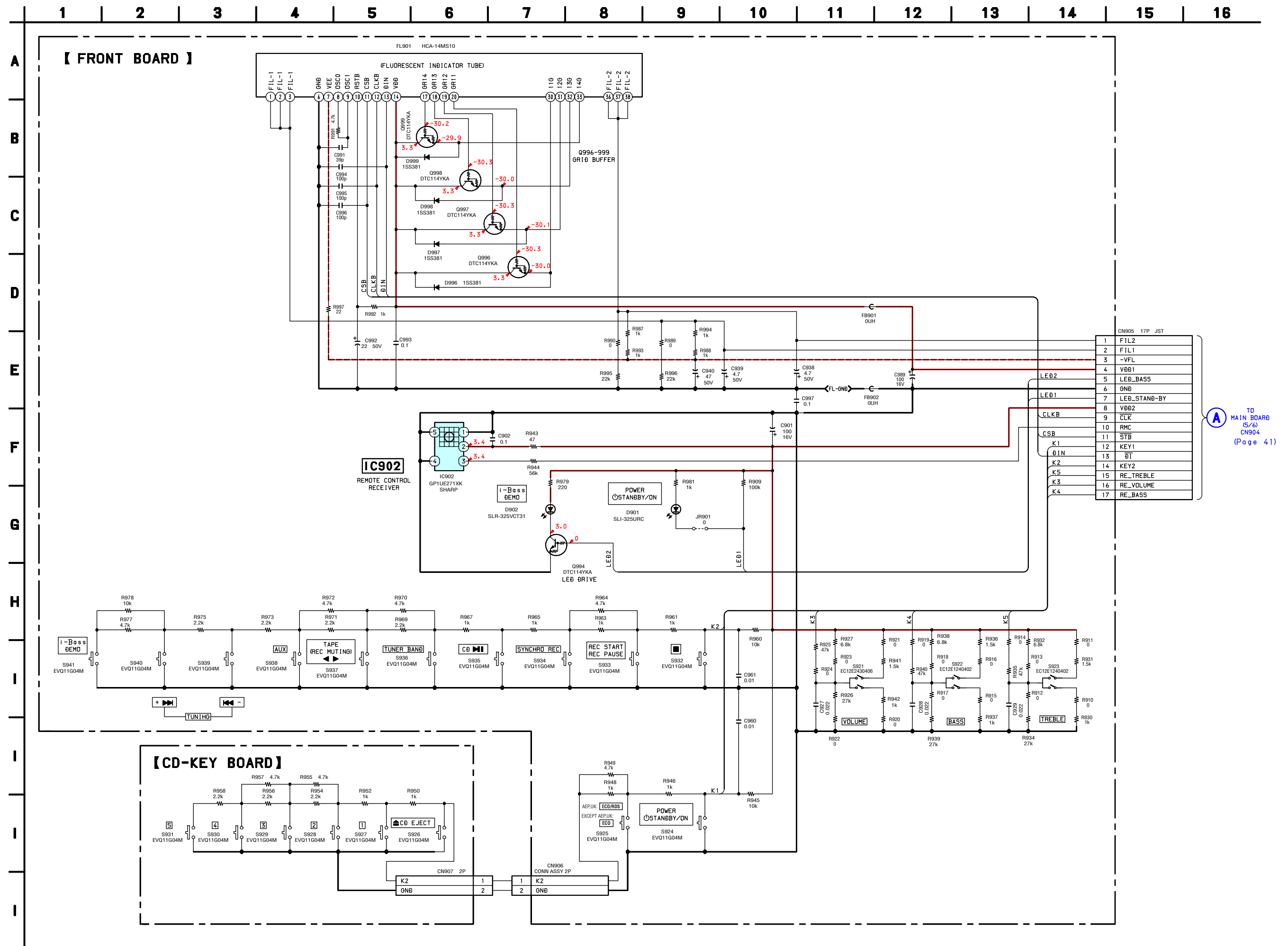
(B)
MAIN BOARD
(5/6)
CN901
(Page 41)

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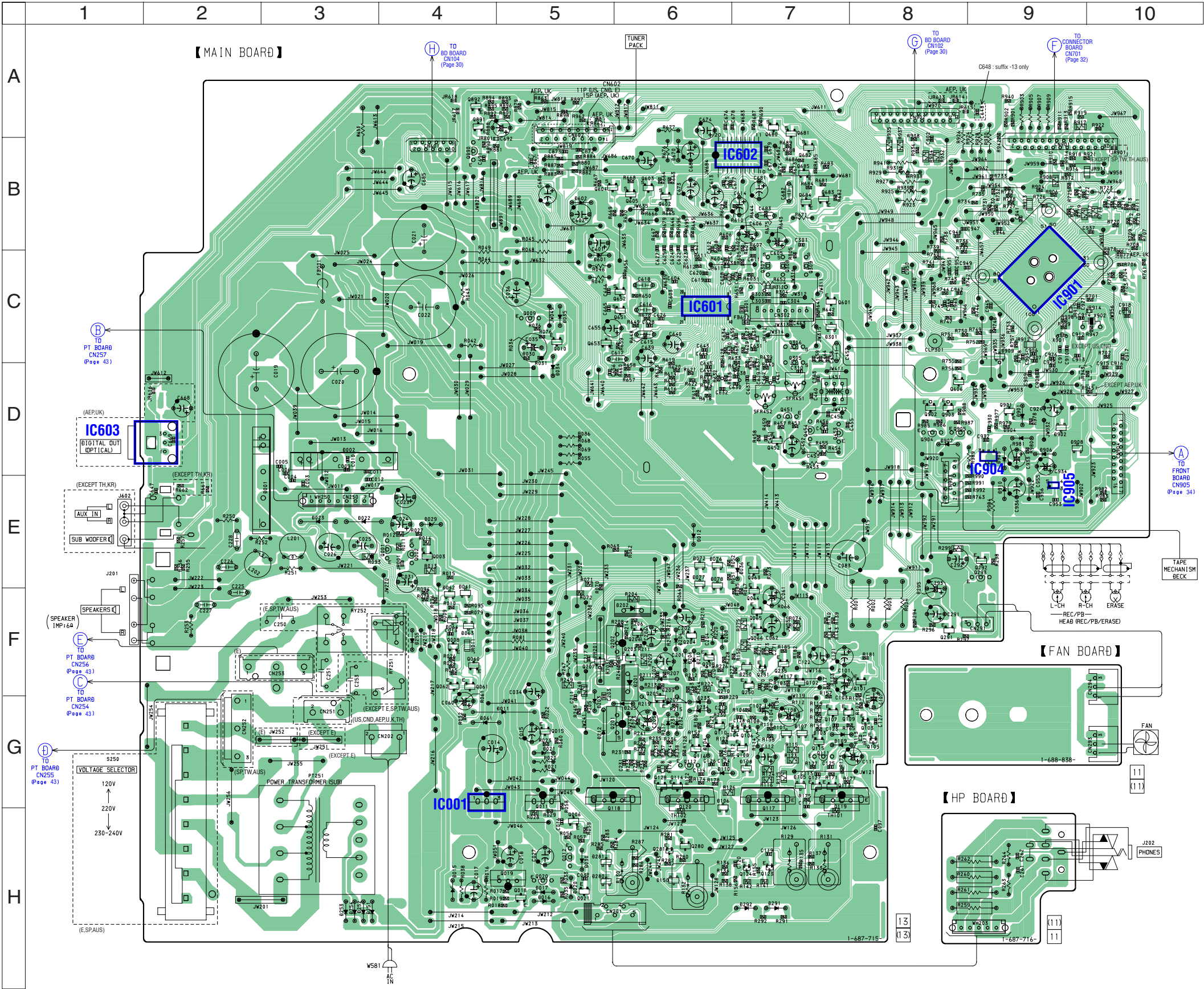
8-6. Printed Wiring Boards — Front Section — • See page 27 for Circuit Boards Location. •  : Uses unleaded solder.



8-7. Schematic Diagram — Front Section —

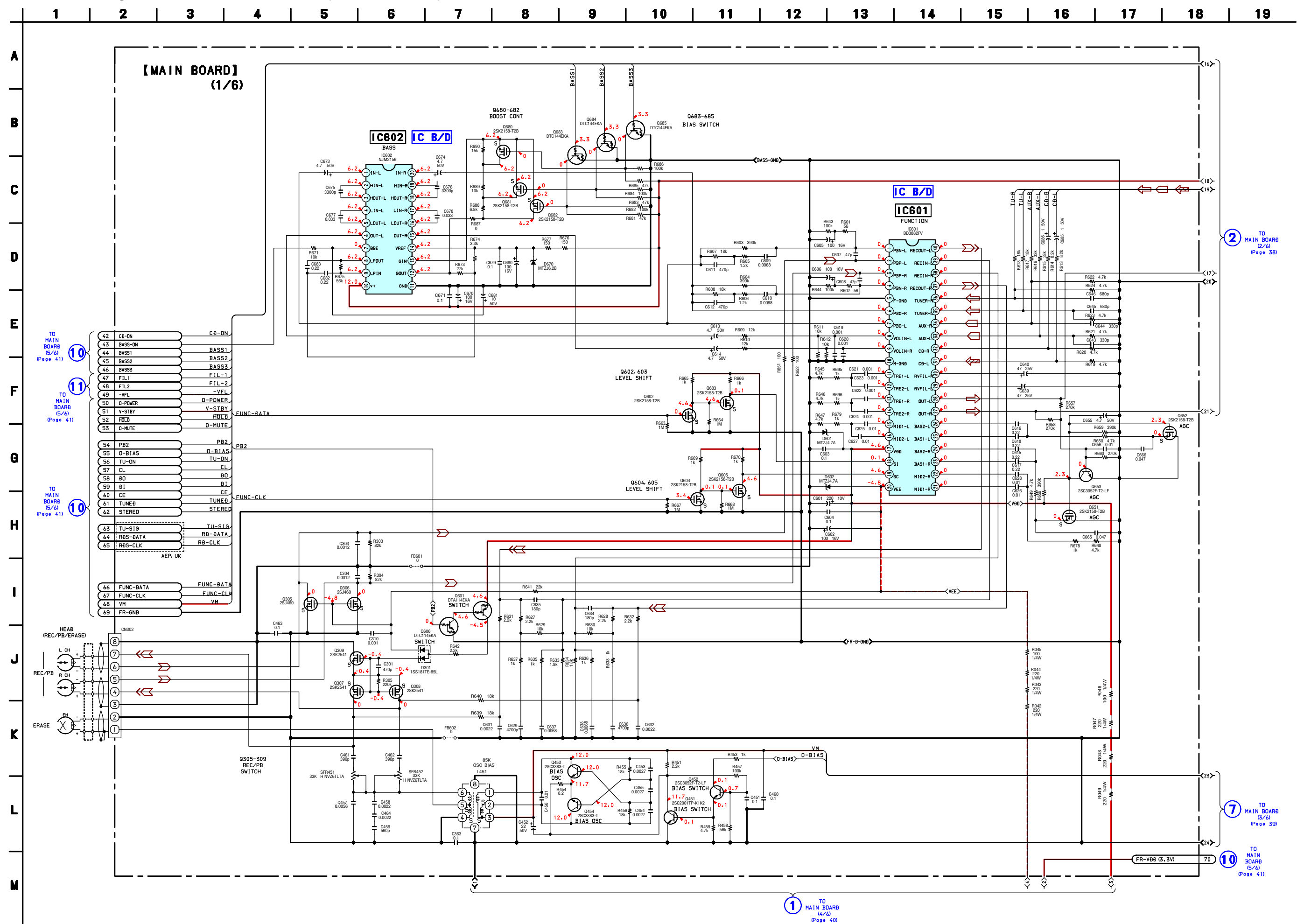


8-8. Printed Wiring Boards — Main Section — • See page 27 for Circuit Boards Location. • : Uses unleaded solder.



• Semiconductor Location					
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D001	E-2	D291	H-7	Q115	G-7
D002	D-3	D292	H-7	Q116	G-6
D011	G-5	D301	C-7	Q117	G-7
D012	E-6	D601	C-5	Q118	G-5
D015	H-4	D602	B-6	Q119	G-7
D016	H-5	D670	A-6	Q120	G-6
D017	H-5	D901	D-9	Q123	H-7
D020	H-5	D902	D-9	Q124	H-7
D021	G-5	D904	D-9	Q127	G-7
D022	E-3	D905	D-9	Q128	G-6
D023	E-3	D906	D-9	Q201	G-5
D029	E-4	D907	D-8	Q202	F-5
D030	H-5	D908	D-9	Q203	F-6
D034	D-5	D909	C-9	Q204	F-6
D035	C-5	D910	E-9	Q205	F-6
D036	E-7	IC001	G-4	Q206	F-6
D041	E-4	IC601	C-6	Q207	F-5
D042	E-4	IC602	B-6	Q208	F-6
D061	G-4	IC603	D-2	Q210	F-7
D063	F-4	IC904	D-9	Q235	F-7
D064	F-4	IC901	C-9	Q250	F-7
D072	E-6	IC905	E-9	Q251	F-7
D076	E-6	Q001	E-4	Q280	H-6
D077	E-6	Q002	E-4	Q281	H-5
D078	E-6	Q003	E-4	Q291	F-8
D101	G-7	Q006	H-5	Q292	E-9
D103	G-7	Q008	F-4	Q293	E-9
D104	G-6	Q009	C-5	Q305	C-7
D105	G-7	Q010	C-5	Q306	C-7
D106	G-6	Q011	G-5	Q307	C-7
D107	G-7	Q012	H-5	Q308	C-7
D108	G-7	Q015	G-5	Q309	C-7
D109	G-7	Q018	H-5	Q451	D-7
D110	G-6	Q019	H-5	Q452	D-7
D150	H-6	Q020	H-5	Q453	D-7
D201	F-6	Q021	H-5	Q454	D-7
D202	F-6	Q060	F-4	Q601	C-7
D203	G-5	Q061	F-4	Q602	B-6
D204	F-6	Q062	F-4	Q603	B-6
D205	G-6	Q063	E-7	Q604	B-5
D206	F-6	Q064	E-7	Q605	B-6
D207	F-6	Q065	F-7	Q606	C-8
D208	F-6	Q066	F-7	Q651	C-6
D209	F-6	Q101	F-8	Q652	C-6
D210	F-6	Q102	F-7	Q653	C-5
D211	F-6	Q103	G-8	Q680	A-7
D212	G-5	Q104	G-7	Q681	A-7
D231	G-6	Q105	G-8	Q682	A-7
D232	G-6	Q106	G-7	Q683	B-7
D233	F-6	Q107	G-7	Q684	B-7
D234	G-6	Q108	G-7	Q685	B-7
D250	F-7	Q109	G-8	Q890	B-4
D251	H-3	Q110	G-6	Q891	A-4
D252	H-3	Q111	G-7	Q892	A-4
D253	H-3	Q111	G-7	Q901	D-9
D254	H-3	Q112	G-6	Q902	D-8
D255	F-4	Q112	G-6	Q903	D-8
D280	H-5	Q113	G-7	Q904	D-8
D281	H-5	Q114	G-6	Q905	D-8

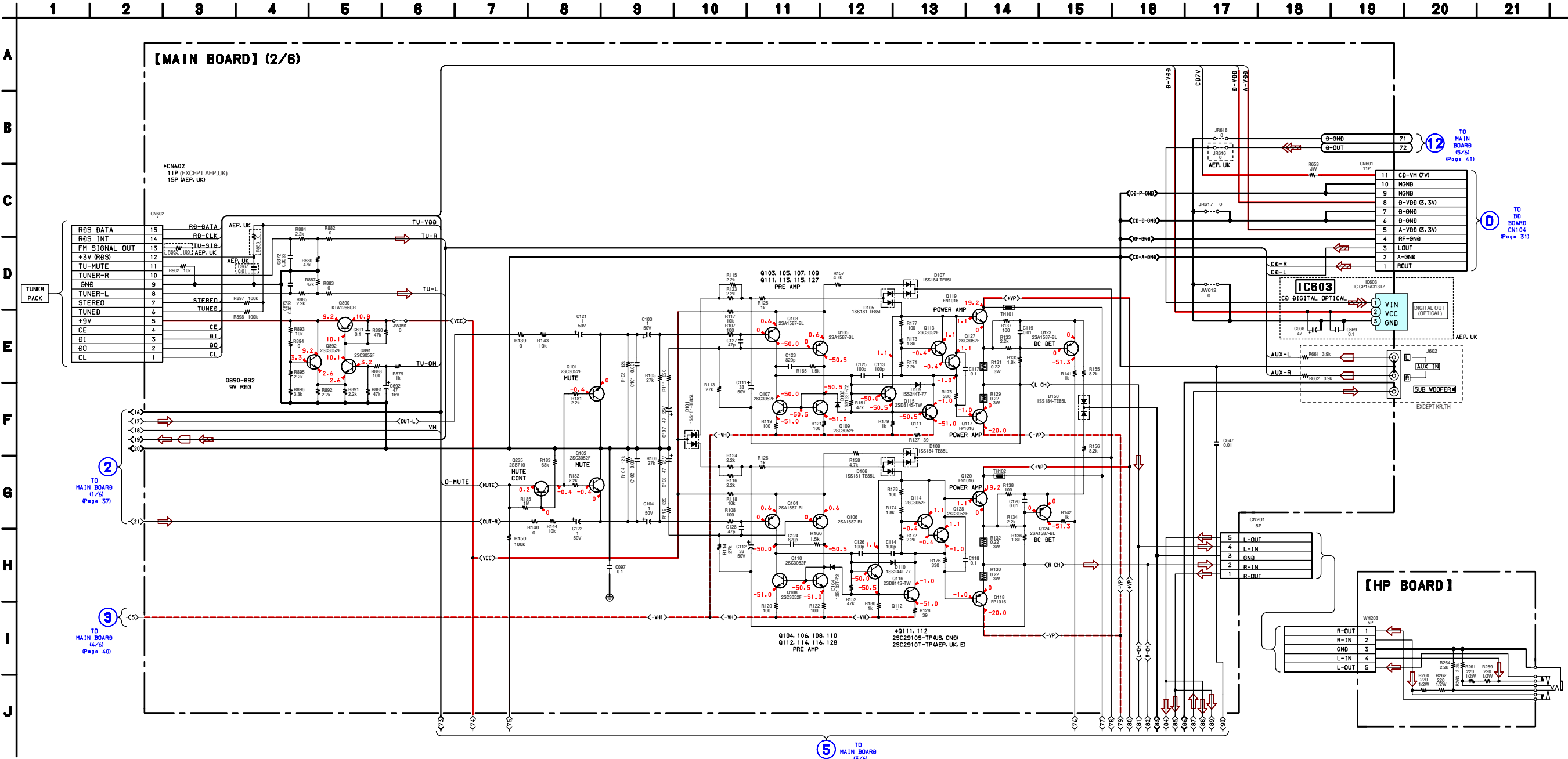
8-9. Schematic Diagram — Main Section 1 — • See page 46 for IC Block Diagrams.



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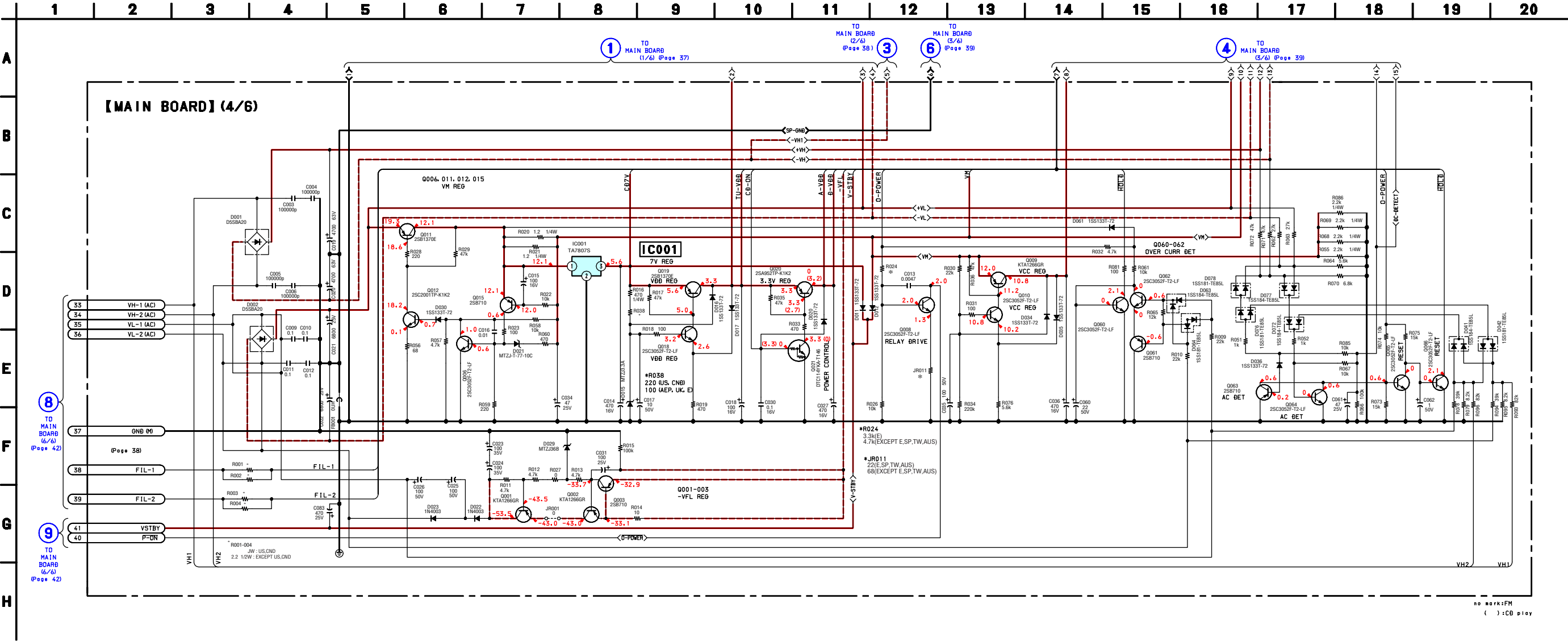
8-10. Schematic Diagram — Main Section 2 —



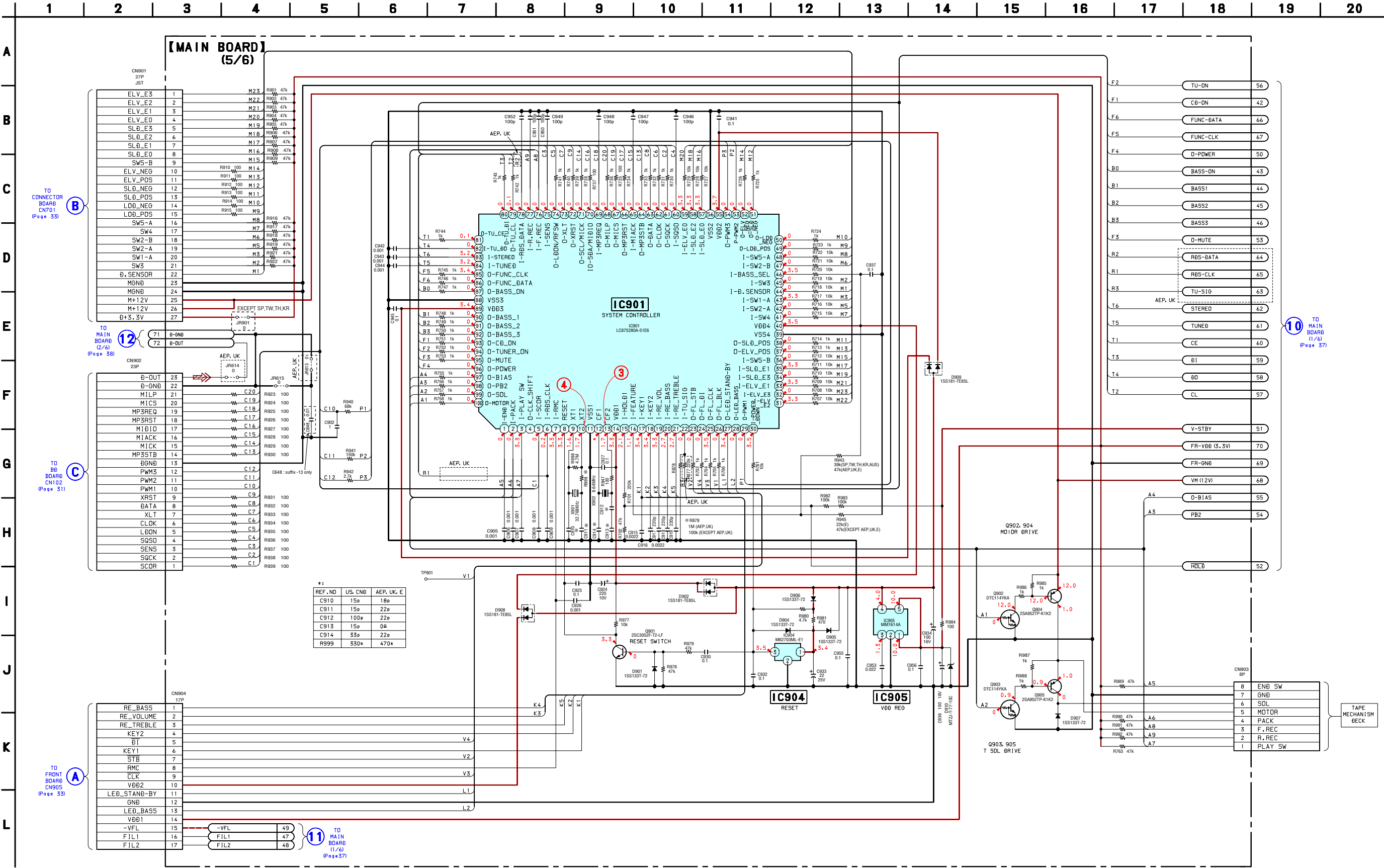
CX-LMN5

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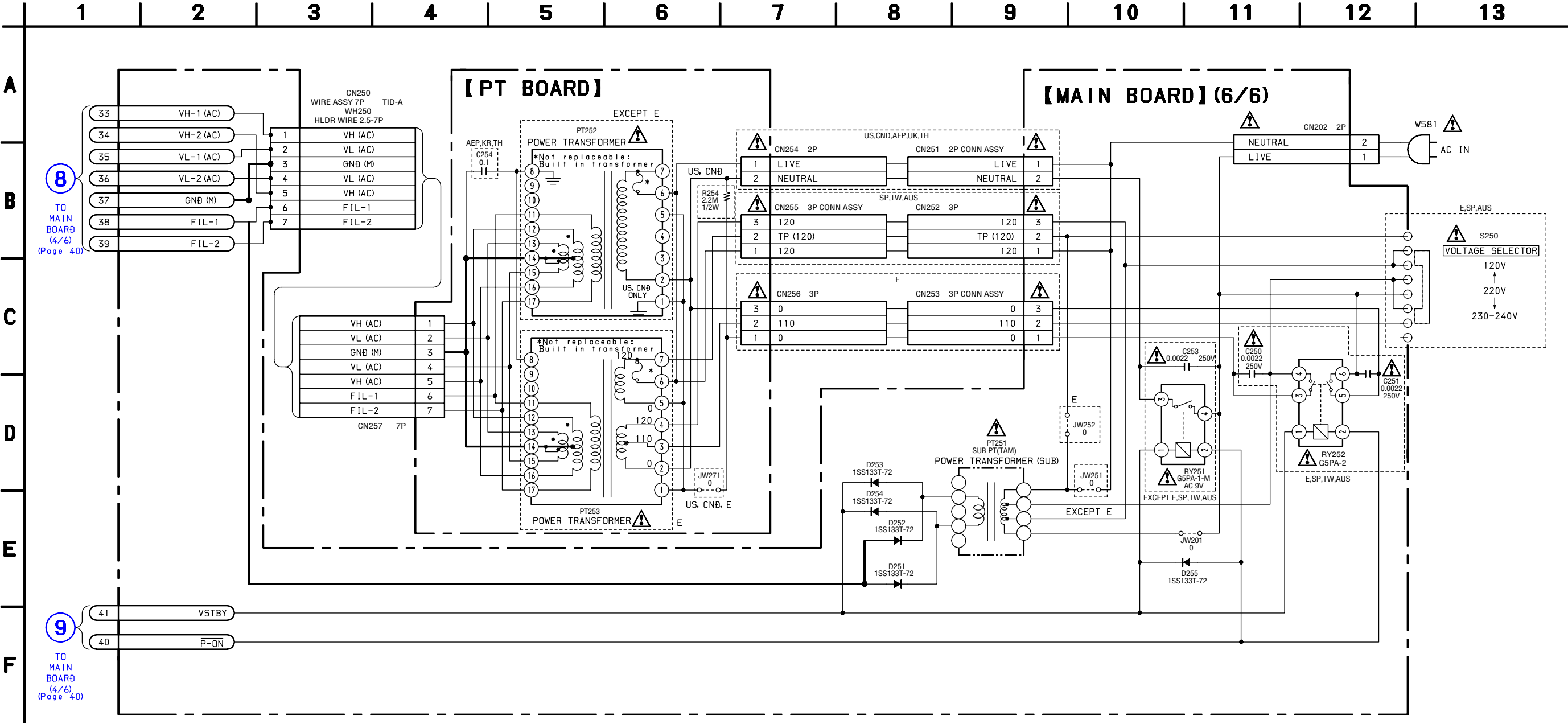
8-12. Schematic Diagram — Main Section 4 —



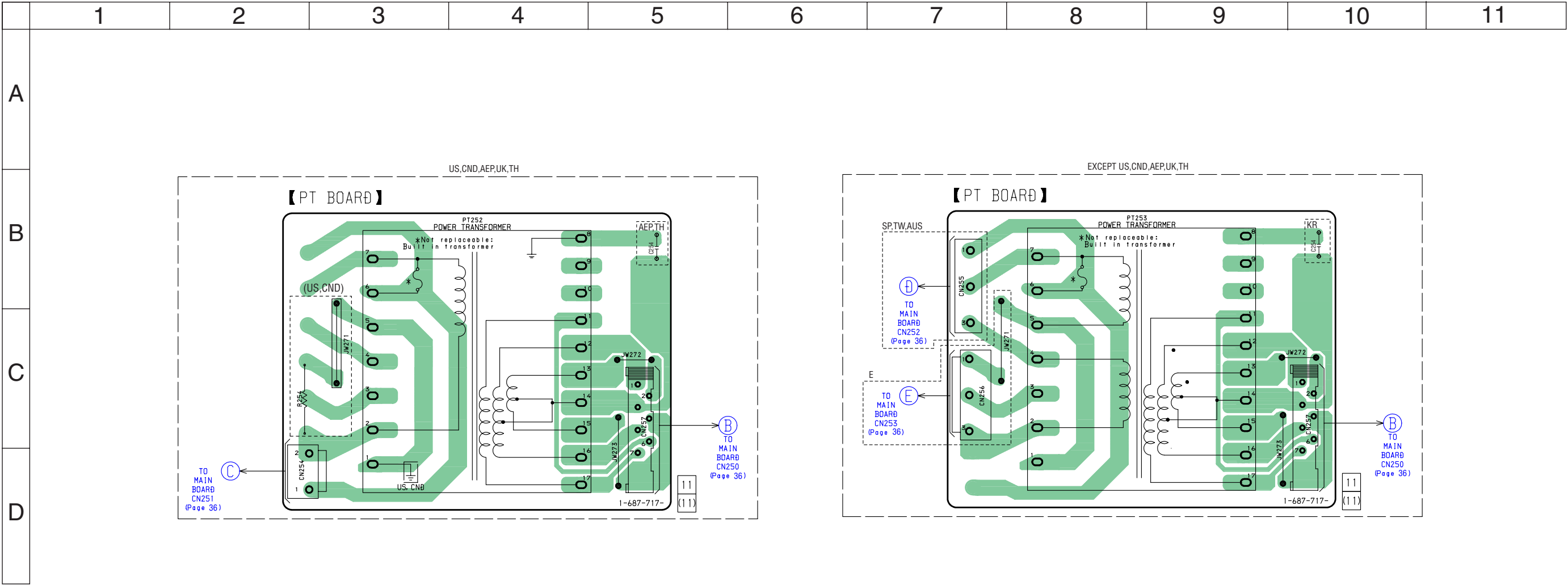
8-13. Schematic Diagram — Main Section 5 — • See page 27 for Waveforms.



8-14. Schematic Diagram — Main Section 6/Power Section —



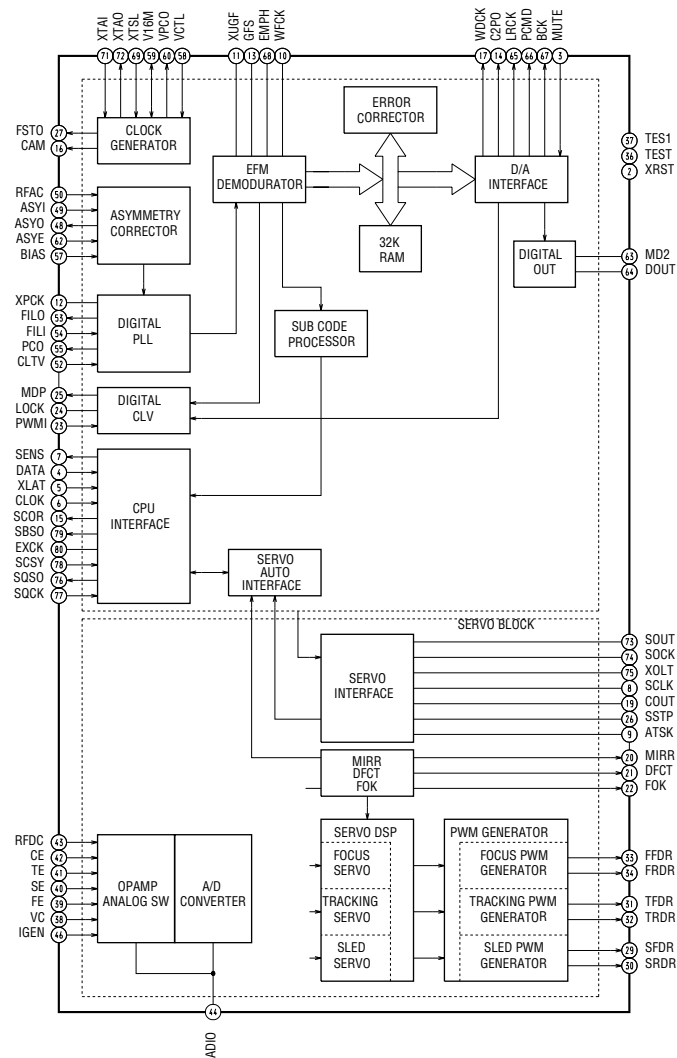
8-15. Printed Wiring Boards — Power Section — • See page 27 for Circuit Boards Location. • : Uses unleaded solder.



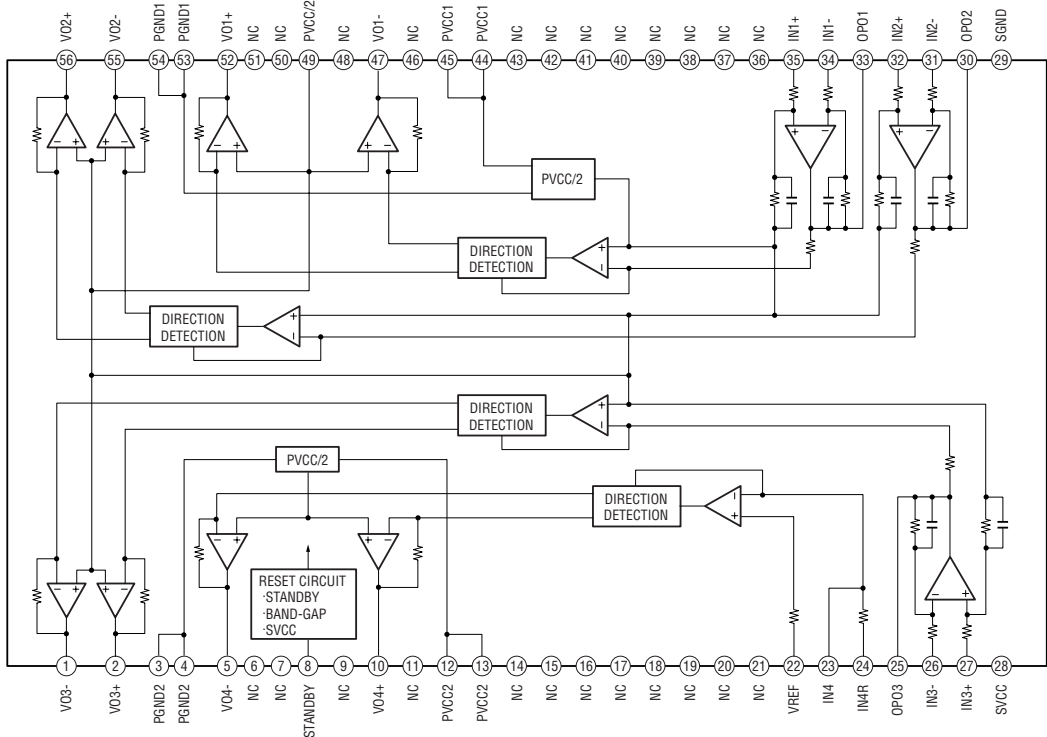
8-16. IC Block Diagrams

— BD Board —

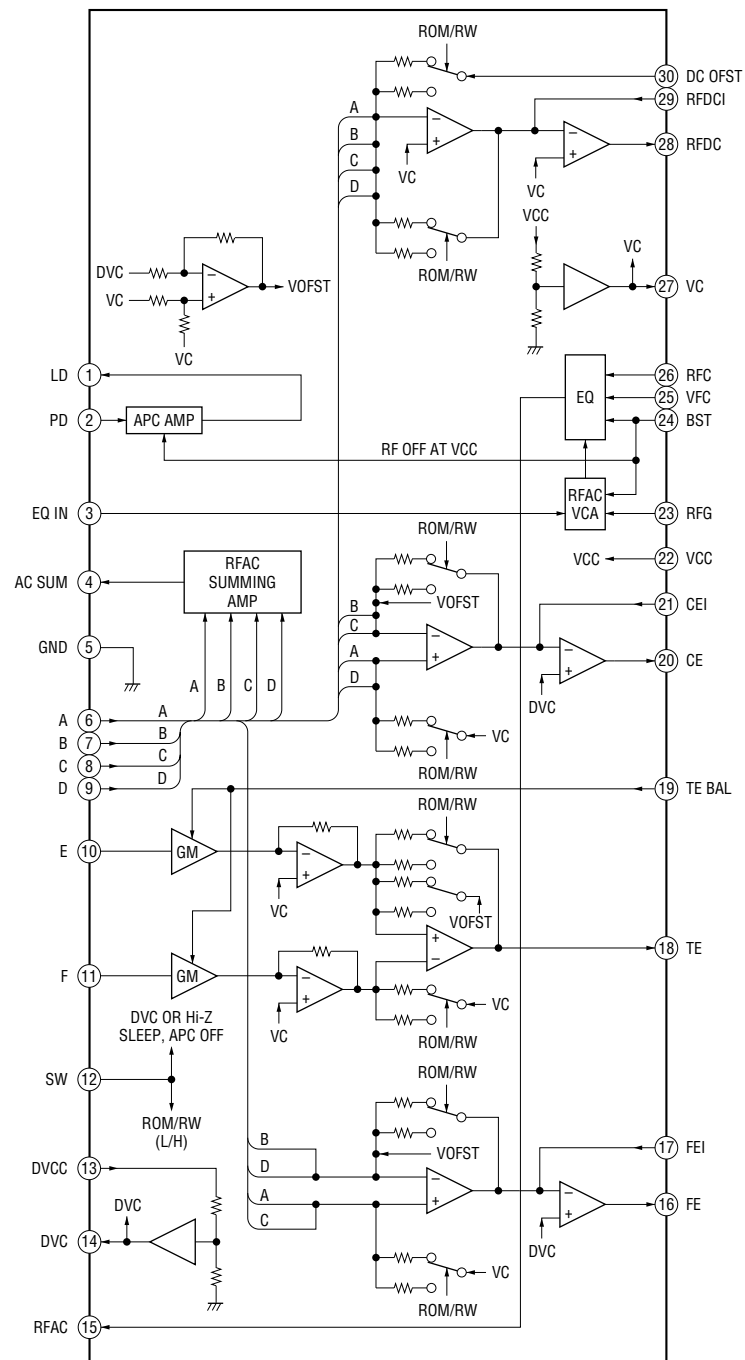
IC101 CXD3068Q



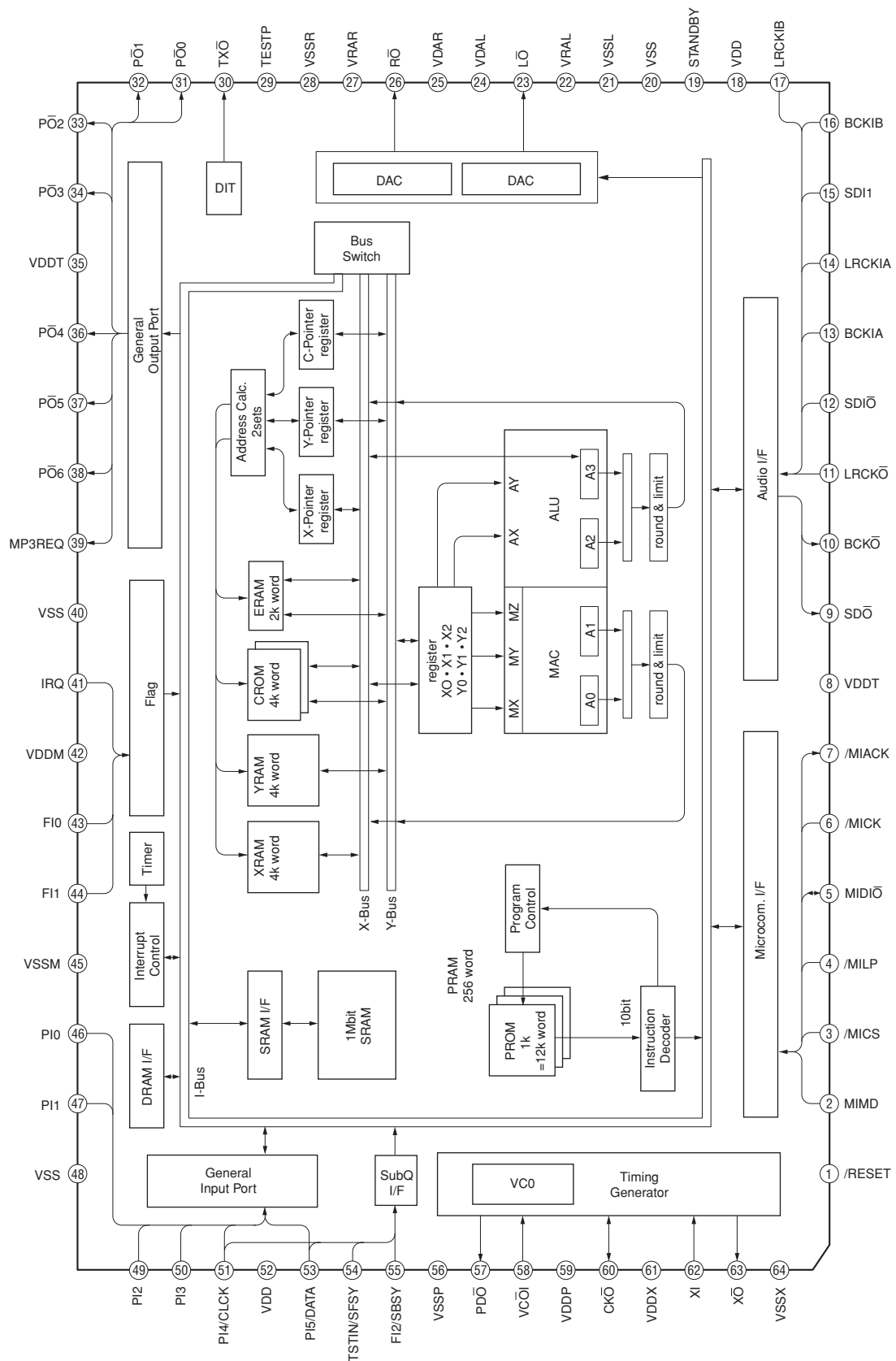
IC102 AN41020A



IC103 CXA2647N-T4

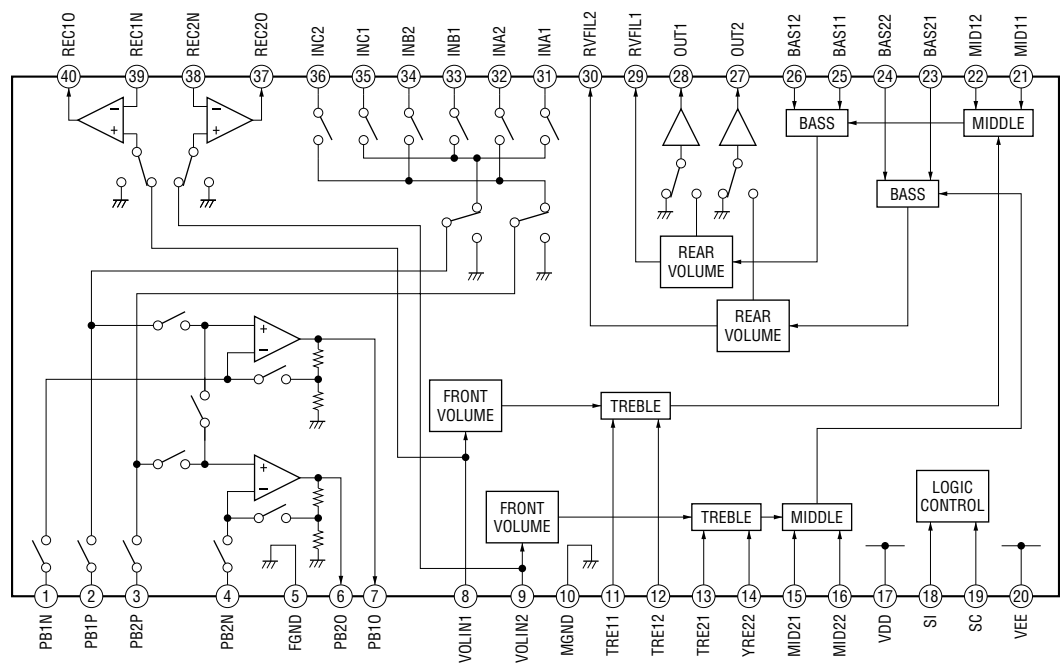


IC104 TC94A20F-CX4

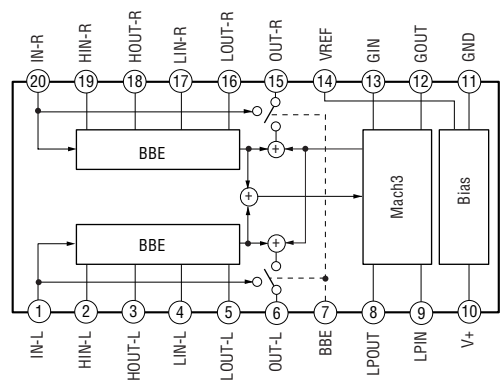


— MAIN Board —

IC601 BD3882FV

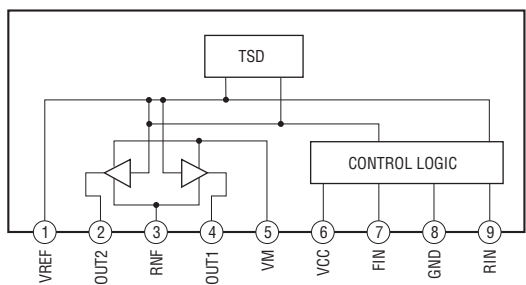


IC602 NJM2156M



— CONNECTOR Board —

IC701, 711, 721 BA6956AN



8-17. IC Pin Function Description**• IC901 LC875280A-51E6 (SYSTEM CONTROLLER)**

Pin No.	Pin Name	I/O	Description
1	I-END	I	END switch signal input from the tape deck
2	I-PACK	I	PACK switch signal input from the tape deck
3	I-PLAY SW	I	PLAY switch signal input from the tape deck
4	O-CLK_SHIFT	O	Clock shift signal output (not used)
5	I-SCOR	I	SCOR signal input from the CD unit
6	I-RDS_CLK	I	RDS signal input from the tuner
7	I-RMC	I	Remote control signal input from the remote sensor
8	RESET	I	Reset signal input
9	XT1	I	Oscillaion circuit signal input for the real time clock
10	XT2	O	Oscillaion circuit signal output for the real time clock
11	VSS1	—	Ground terminal
12	CF1	I	Oscillaion circuit signal input for the system main clock
13	CF2	O	Oscillaion circuit signal output for the system main clock
14	VDD1	—	Power supply terminal
15	I-HOLD1	I	Voltage detection signal input
16	I-FEATURE	I	Destination setting input trminal
17	I-KEY1	I	Key input 1
18	I-KEY2	I	Key input 2
19	I-RE_VOL	I	Volume signal input from the rotary encoder
20	I-RE_BASS	I	Bass signal input from the rotary encoder
21	I-RE_TREBLE	I	Treble signal input from the rotary encoder
22	I-TU_SIG	I	Tuning signal level input from the tuner
23	O-FL_STB	O	Latch signal output to the fluorescent indicator tube
24	O-FL_DI	O	Data output to the fluorescent indicator tube
25	O-FL_CLK	O	Clock signal output to the fluorescent indicator tube
26	O-FL_BLK	O	Not used (open)
27	O-LED_STAND-BY	O	Standby LED control signal output ("L" : active)
28	O-LED_BASS	O	LED (i-Bass/DEMO) control signal output
29	O-PWM1	O	PWM signal output for focus offset adjustment
30	I-POWER_DOWN	I	Power down detection signal input
31	I-ELV_E2	I	ELV_E2 switch signal input from the CD mechanism
32	I-ELV_E3	I	ELV_E3 switch signal input from the CD mechanism
33	I-ELV_E1	I	ELV_E1 switch signal input from the CD mechanism
34	I-SLD_E3	I	SLD_E3 switch signal input from the CD mechanism
35	I-SLD_E1	I	SLD_E1 switch signal input from the CD mechanism
36	I-SW5-B	I	SW5-B switch signal input from the CD mechanism
37	O-ELV_POS	O	Elevator motor control signal output
38	O-SLD_POS	O	Sled motor control signal output
39	VSS4	—	Ground terminal
40	VDD4	—	Power supply terminal
41	I-SW4	I	SW4 switch signal input from the CD mechanism
42	I-SW2-A	I	SW2-A switch signal input from the CD mechanism
43	I-SW1-A	I	SW1-A switch signal input from the CD mechanism
44	I-D.SENSOR	I	Disc sensor signal input
45	I-SW3	I	SW3 switch signal input from the CD mechanism
46	I-BASS_SEL	I	Bass initial setting input terminal
47	I-SW2-B	I	SW2-B switch signal input from the CD mechanism
48	I-SW5-A	I	SW5-A switch signal input from the CD mechanism
49	O-LOD_POS	O	Loading motor control signal output
50	O-LOD_NEG	O	Loading motor control signal output

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Pin No.	Pin Name	I/O	Description
51	O-SLD_NEG	O	Sled motor control signal output
52	O-ELV_NEG	O	Elevator motor control signal output
53	O-PWM2	O	PWM signal output for tracking offset adjustment
54	O-PWM3	O	PWM signal output for RF offset adjustment
55	VDD2	—	Power supply terminal
56	VSS2	—	Ground terminal
57	I-SLD_E0	I	SLD_E0 switch signal input from the CD mechanism
58	I-SLD_E2	I	SLD_E2 switch signal input from the CD mechanism
59	I-ELV_E0	I	ELV_E0 switch signal input from the CD mechanism
60	I-SQSO	I	Sub-Q data input from the CD unit
61	O-SQCK	O	Sub-Q clock output to the CD unit
62	O-CLOCK	O	Clock output to the CD unit
63	O-DATA	O	Data output to the CD unit
64	O-MP3STB	O	Strobe signal output to the MP3 IC
65	I-MIACK	I	Acknowledge signal input from the MP3 IC
66	O-MP3RST	O	Reset signal output to the MP3 IC
67	O-MICS	O	Chip select signal output to the MP3 IC
68	O-MILP	O	Latch pulse signal output to the MP3 IC
69	I-MP3REQ	I	Request signal input from the MP3 IC
70	IO-SDA/MIDIO	I/O	Data input/output from/to the MP3 IC
71	O-SCL/MICK	O	Clock output to the MP3 IC
72	O-XRST	O	Reset signal output to the CD unit
73	O-XLT	O	Control data latch signal output to the CD unit
74	O-LDON/RFSW	O	RF gain selection signal output to the CD unit
75	I-SENS	I	SENS signal input from the CD unit
76	I-F.REC	I	Record protect detect switch signal input (front)
77	I-R.REC	I	Record protect detect switch signal input (rear)
78	I-RDS_DATA	I	RDS data input from the tuner
79	O-TU_CL	O	Clock output to the tuner
80	O-TU_DI	O	Data output to the tuner
81	O-TU_CE	O	Latch signal output to the tuner
82	I-TU_DO	I	Data input from the tuner
83	I-STEREO	I	Stereo detection signal input from the tuner
84	I-TUNED	I	Tuner tuned status signal input from the tuner
85	O-FUNC_CLK	O	Clock output to the function IC (IC601)
86	O-FUNC_DATA	O	Data output to the function IC (IC601)
87	O-BASS_ON	O	On/off control signal output for i-Bass
88	VSS3	—	Ground teminal
89	VDD3	—	Power supply terminal
90	O-BASS_1	O	Level control signal output for i-Bass
91	O-BASS_2	O	Level control signal output for i-Bass
92	O-BASS_3	O	Level control signal output for i-Bass
93	O-CD_ON	O	CD power supply control signal output
94	O-TUNER_ON	O	Tuner power supply control signal output
95	O-MUTE	O	Muting control signal output to the power amplifier
96	O-POWER	O	Main power control signal output
97	O-BIAS	O	Bias control signal output to the tape deck
98	O-PB2	O	Playback selection signal output for the tape deck
99	O-SOL	O	Solenoid control signal output to the tape deck
100	O-MOTOR	O	Motor control signal output to the tape deck

SECTION 9 EXPLODED VIEWS

NOTE:

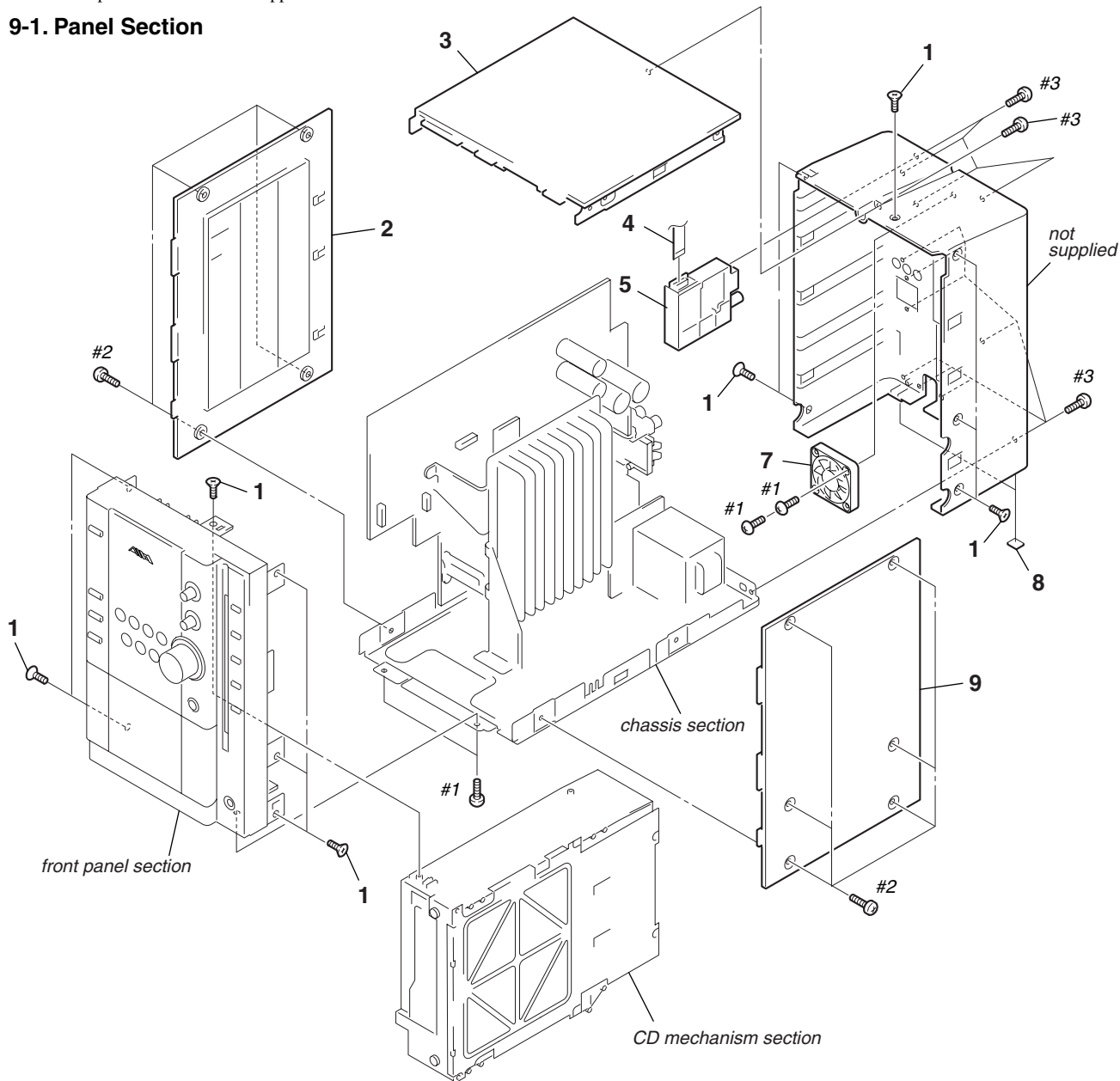
- XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded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

- Abbreviation
- AUS : Australian model.
- CND : Canadian model.
- SP : Singapore model.
- TW : Taiwan model.
- KR : Korean model.
- TH : Thai model.

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

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

9-1. Panel Section

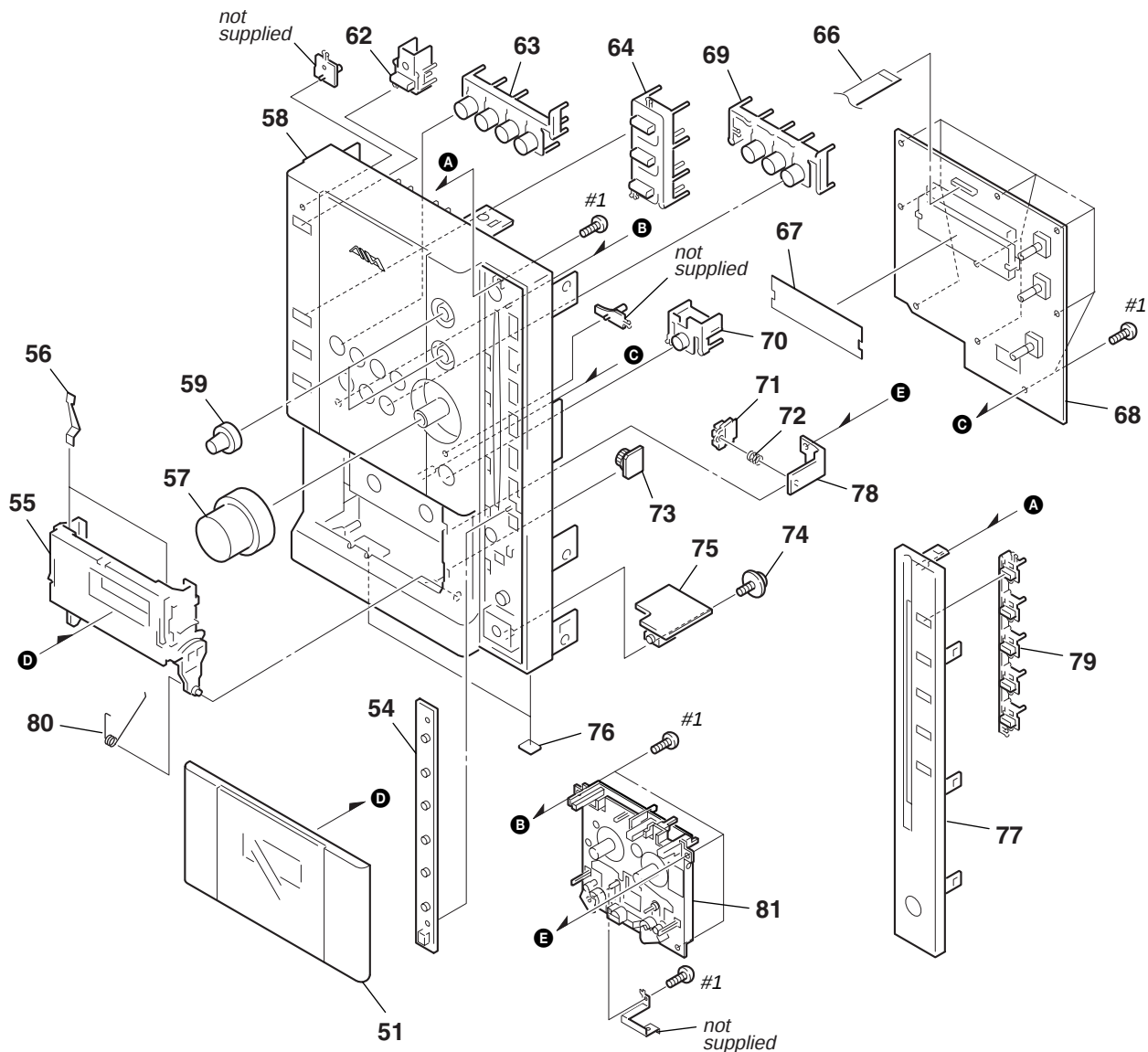


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-242-531-01	SCREW QT2+3-10 W/O SLOT		5	1-693-605-11	TUNER (FM/AM)(KR)	
2	4-245-912-01	PANEL (L), SIDE (US,CND)		5	1-693-623-11	TUNER (FM/AM)(US,CND)	
2	4-245-912-11	PANEL (L), SIDE (AEP,UK,E,AUS,SP,KR)		Δ 7	1-698-997-11	FAN, D.C.	
3	4-245-911-01	PANEL, TOP (US,CND)		8	4-242-091-01	CUSHION	
3	4-245-911-11	PANEL, TOP (AEP,UK,E,AUS,SP,KR)		9	4-245-913-01	PANEL (R), SIDE (US,CND)	
3	4-245-911-21	PANEL, TOP (TW,TH)		9	4-245-913-11	PANEL (R), SIDE (AEP,UK,E,AUS,SP,KR)	
4	1-773-007-11	WIRE (FLAT TYPE)(15CORE)(AEP,UK)		9	4-245-913-21	PANEL (R), SIDE (TW,TH)	
4	1-769-943-11	WIRE (FLAT TYPE)(11CORE)(EXCEPT AEP,UK)		#1	7-685-647-71	SCREW +BVTP 3X10 TYPE2 IT-3	
5	1-693-603-11	TUNER (FM/AM)(E,AUS,SP,TW,TH)		#2	7-685-647-14	SCREW +BVTP 3X10 TYPE2 N-S	
5	1-693-604-11	TUNER (FM/AM)(AEP,UK)		#3	7-685-647-79	+BVTP 3X10 TYPE2 IT-3	

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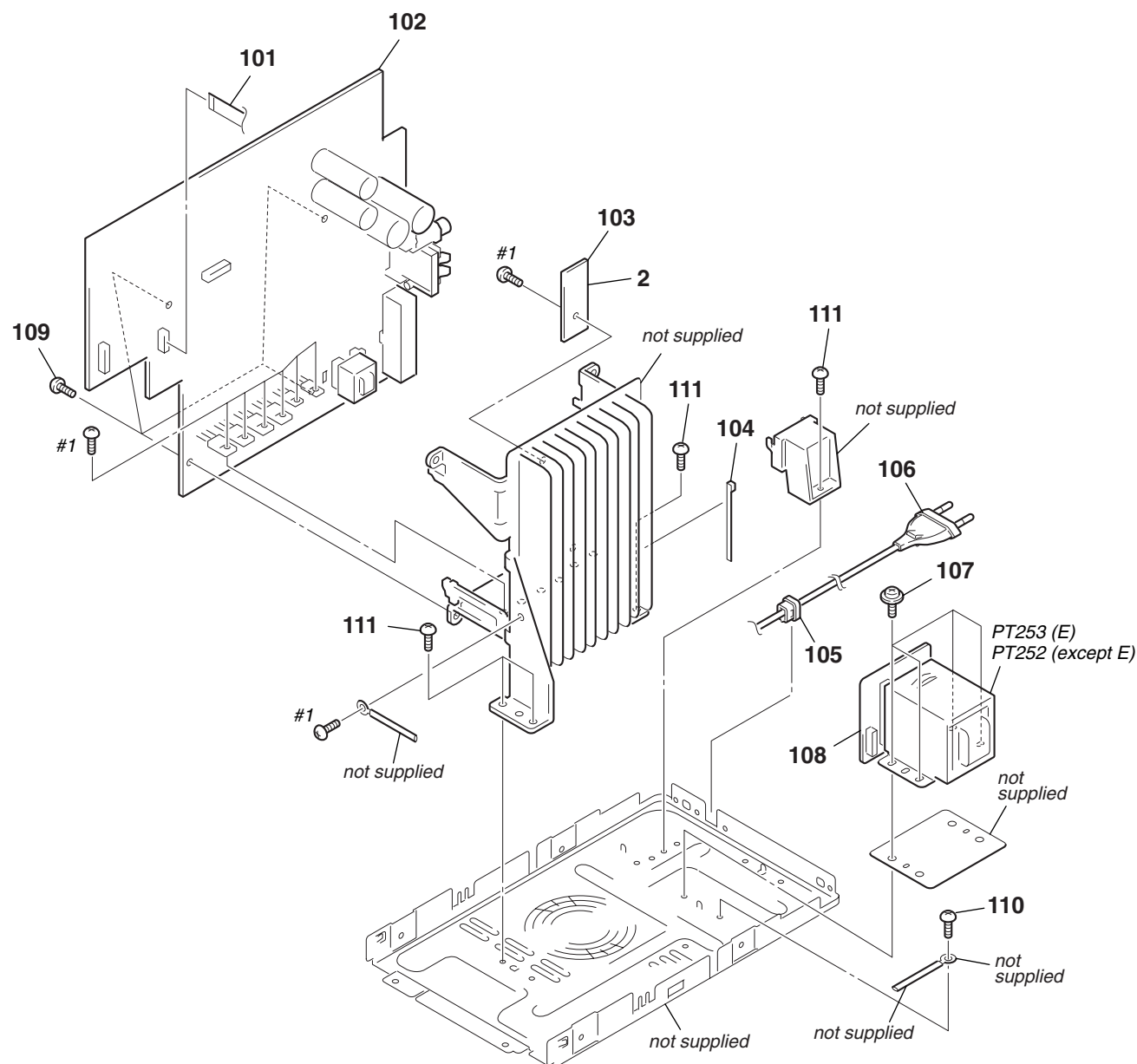
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9-2. Front Section



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-4955-900-1	PANEL, CASS ASSY SERVICE		68	A-4732-974-A	FRONT BOARD, COMPLETE	
54	1-687-719-11	CD-KEY BOARD		69	4-245-920-01	BUTTON (STOP)	
55	4-245-916-01	HOLDER, CASSETTE		70	4-245-924-01	BUTTON (BASS)	
56	4-238-631-01	TAPE SPRING (US)		71	4-242-172-01	PLATE, LOCK	
56	4-246-745-01	CASSETTE, SPRING (EXCEPT US)		72	4-242-173-01	SPR-C, LOCK	
57	4-245-925-01	KNOB (VOL)		73	4-242-171-01	DAMPER 150 N	
58	X-4955-901-1	FRONT PANEL, ASSY SERVICE (US,CND)		74	3-229-336-01	SCREW, +BVWH TAPPING	
58	X-4955-899-1	FRONT PANEL, ASSY SERVICE (AEP,UK)		75	1-687-716-11	HP BOARD	
58	X-4955-902-1	FRONT PANEL, ASSY SERVICE (EXCEPT US,CND,AEP,UK)		76	4-242-091-01	CUSHION	
59	4-245-926-01	KNOB (BT)		77	4-245-914-01	PANEL (CD)	
62	4-245-919-01	BUTTON (POWER)		78	4-242-175-01	HLDR, LOCK2	
63	4-245-922-01	BUTTON (FUN)		79	4-245-923-01	BUTTON (CD)	
64	4-245-921-01	BUTTON (ECO)		80	4-245-938-01	SPRING (CASS), TORSION	
66	1-790-074-11	WIRE (FLAT TYPE)(17 CORE)		81	1-796-351-51	MECHANISM, SIGNAL CASSETTE (CMAL1Z240A)	
67	4-245-929-01	SHEET (FL)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

9-3. Chassis Section

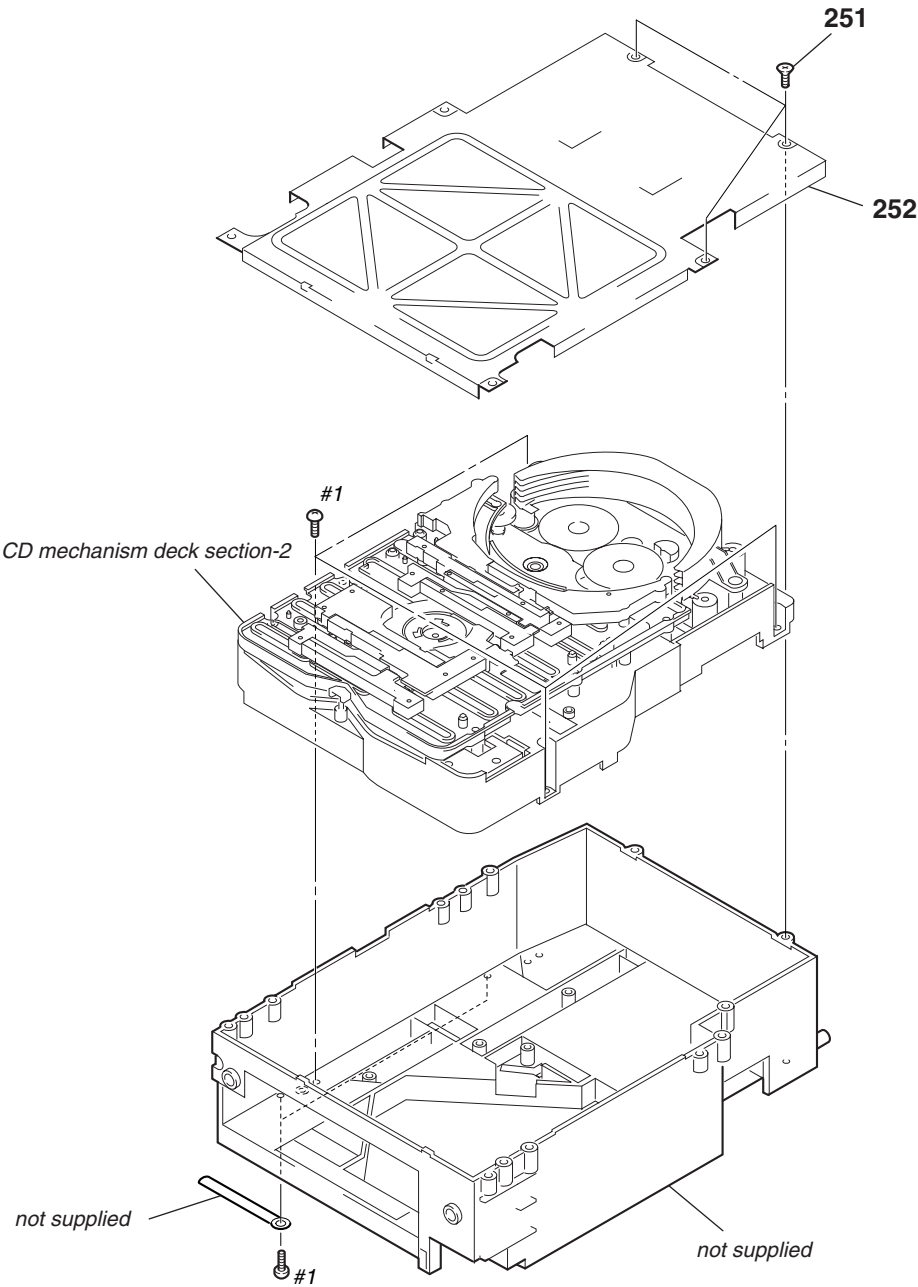


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	1-827-490-11	WIRE (FLAT TYPE)(8 CORE)		△ 106	1-769-744-52	CORD, POWER (AEP,UK,E,SP,TH)	
102	A-4732-968-A	MAIN BOARD, COMPLETE (US,CND)		△ 106	1-783-531-11	CORD, POWER (US,CND,TW)	
102	A-4734-789-A	MAIN BOARD, COMPLETE (AEP,UK)		107	4-242-526-01	S-SCREW, ITC+4-10 R	
102	A-4734-817-A	MAIN BOARD, COMPLETE (E)		108	1-687-717-11	PT BOARD	
102	A-4747-822-A	MAIN BOARD, COMPLETE (AUS,SP)		109	4-242-356-01	S-SCREW, IT3B+3-8 CU	
102	A-4748-116-A	MAIN BOARD, COMPLETE (TH)		110	3-970-608-01	SUMITITE (B3),+BV	
102	A-4748-600-A	MAIN BOARD, COMPLETE (KR)		111	4-242-539-01	BVIT3B+3-8 RW/O	
102	A-4748-602-A	MAIN BOARD, COMPLETE (TW)		△ PT252	1-439-836-11	TRANSFORMER, POWER (US,TW)	
103	1-688-838-11	FAN BOARD		△ PT252	1-439-836-12	TRANSFORMER, POWER (CND)	
104	4-059-585-01	TIE, CABLE		△ PT252	1-439-867-11	TRANSFORMER, POWER (AEP,UK)	
105	3-703-244-00	BUSHING (2104), CORD		△ PT253	1-439-974-11	TRANSFORMER, POWER (E,SP)	
△ 106	1-690-608-11	CORD, POWER (AUS)		△ PT253	1-439-975-11	TRANSFORMER, POWER (AUS,KR,TH)	
△ 106	1-769-079-22	CORD, POWER (KR)		#1	7-685-647-71	SCREW +BVTP 3X10 TYPE2 IT-3	

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

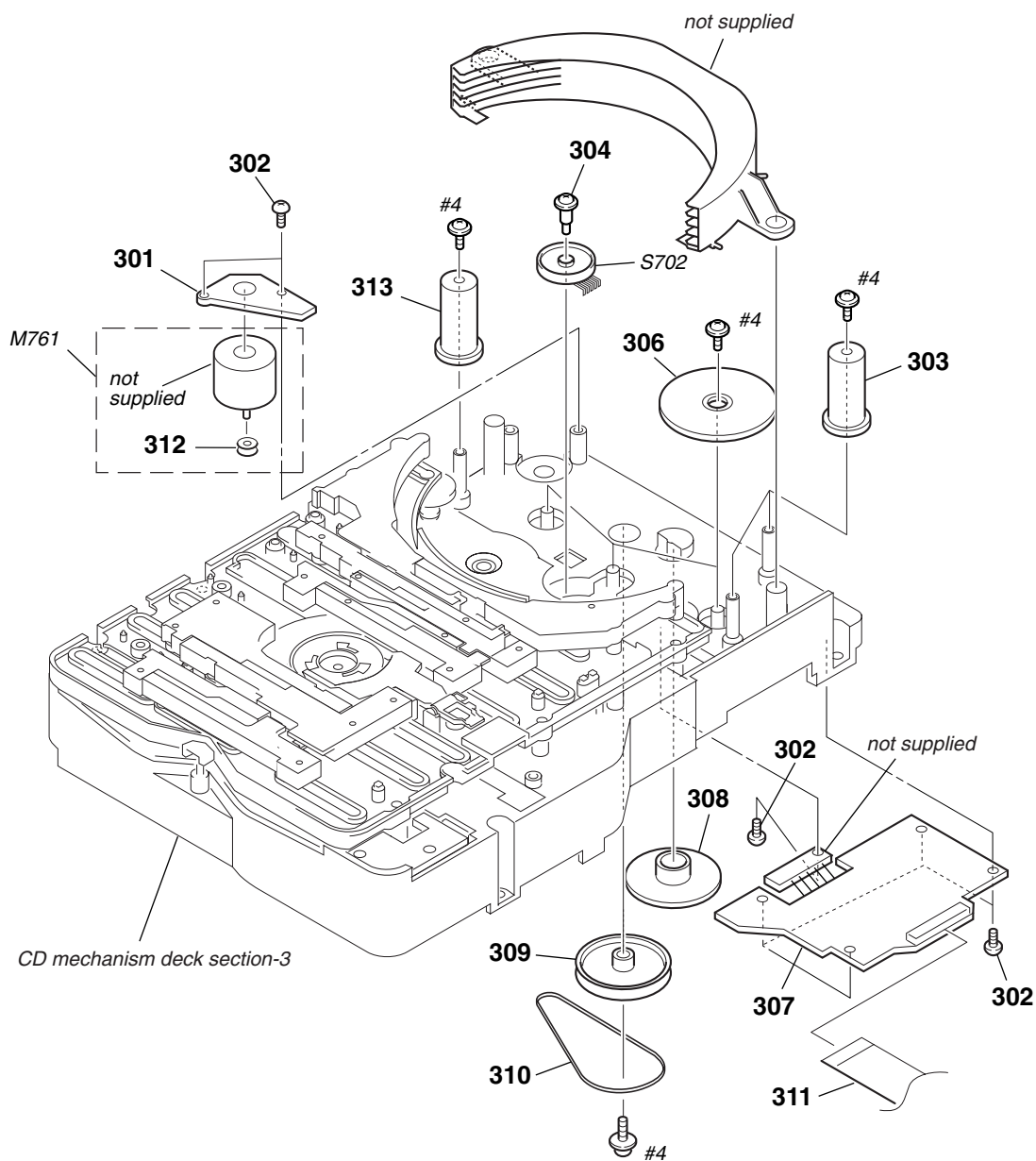
Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

9-4. CD Mechanism Deck Section 1 (CDM69BV-30CBD64NS)



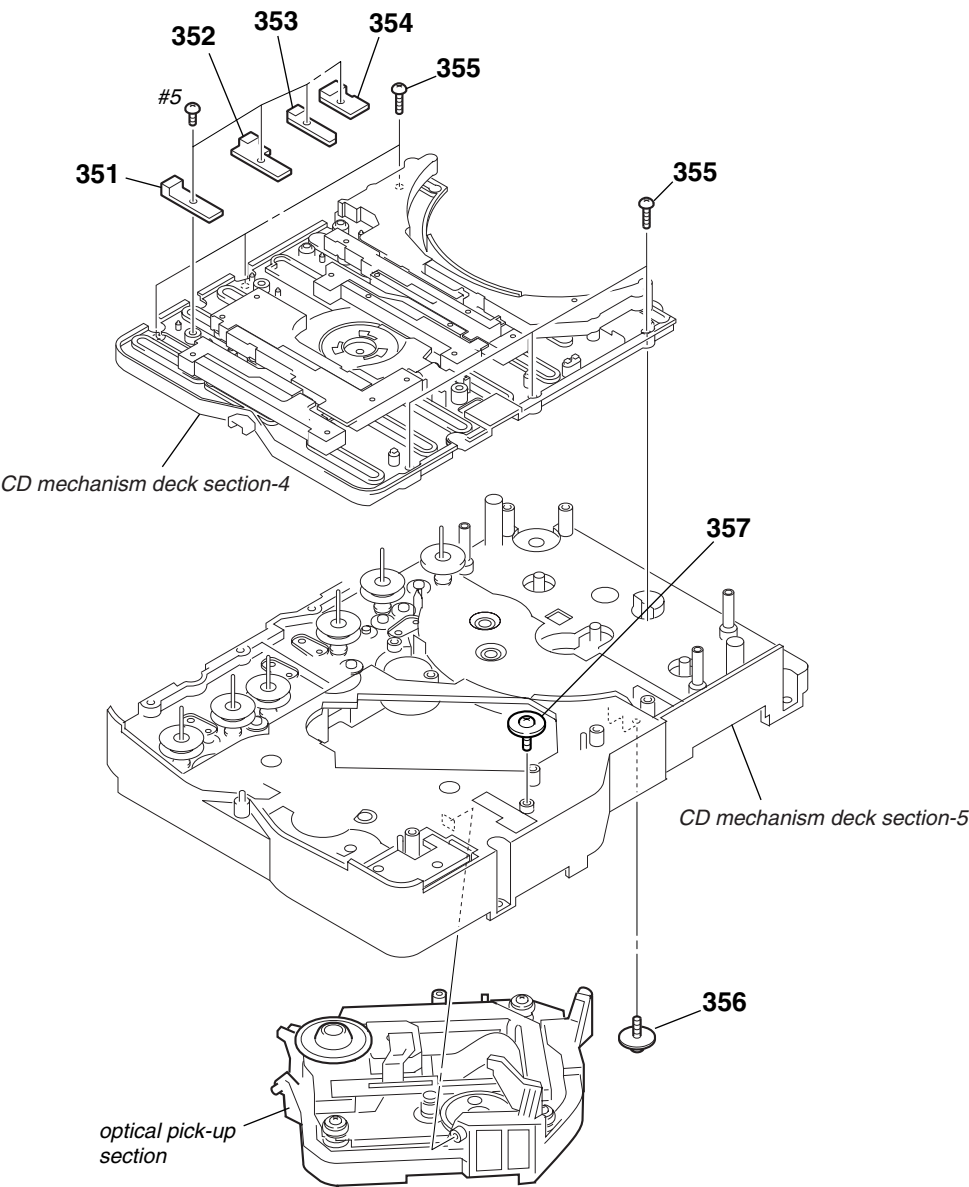
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	4-242-531-01	SCREW, QT2+3-10 W/O SLOT		#1	7-685-647-71	SCREW+BVTP 3X10 TYPE2 IT-3	
252	4-245-933-01	HOLDER (CD B)					

9-5. CD Mechanism Deck Section 2 (CDM69BV-30CBD64NS)



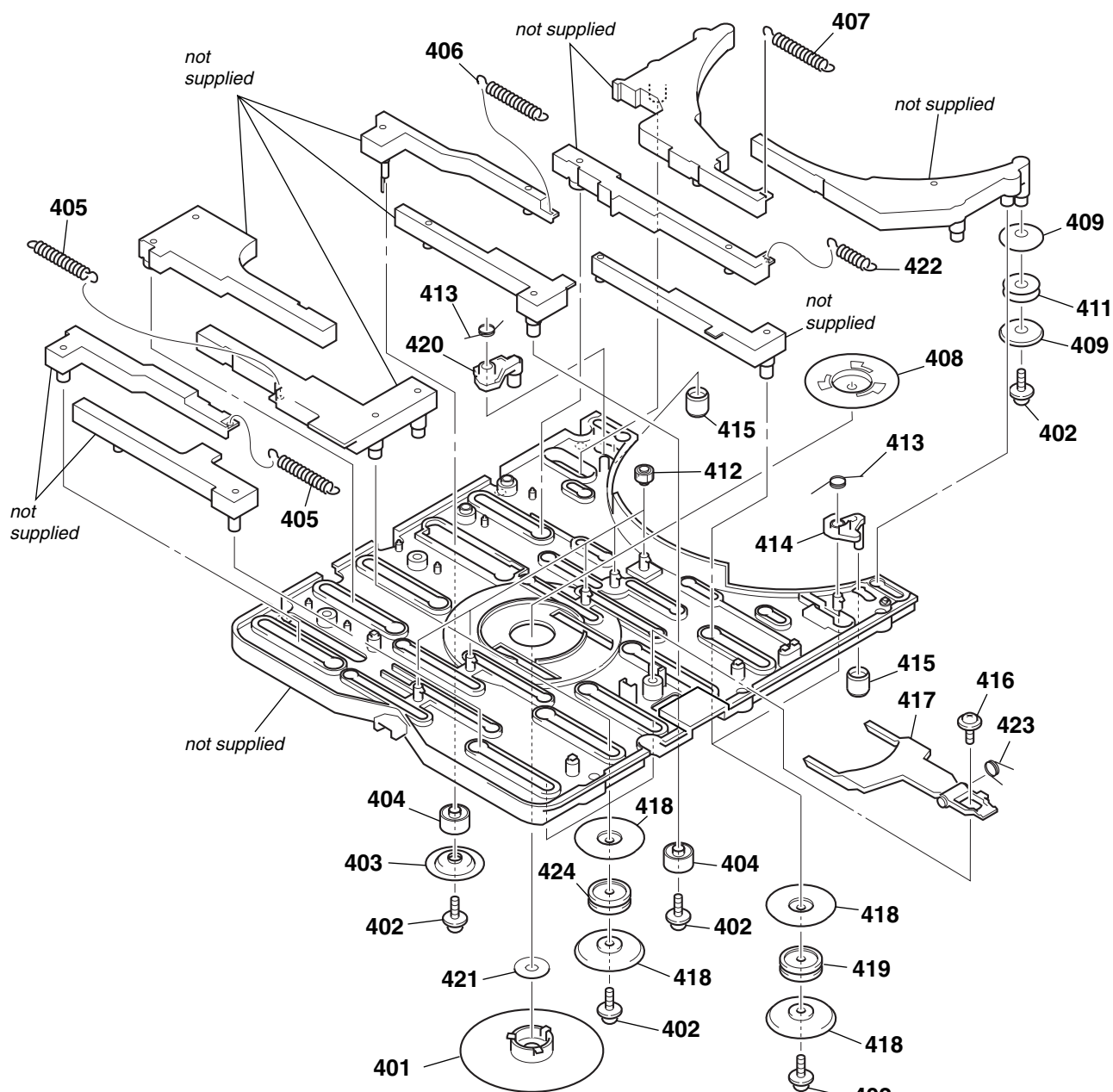
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	1-686-725-12	STOCKER MOTOR BOARD		310	4-221-541-01	BELT (MODE)	
302	4-951-620-01	SCREW (2.6X8), +BVTP		311	1-827-493-11	WIRE (FLAT TYPE)(27CORE)	
303	4-239-690-01	CAM (STOCKER U/D)		312	4-986-156-01	PULLEY, MOTOR	
304	4-239-618-01	SCREW (+PWH,2X6), STEP TAPPING		313	4-244-764-01	CAM (STOCKER V)	
306	4-239-687-01	GEAR (STOCKER COMMUNICATION)		M761	A-4735-953-A	MOTOR ASSY (STOCKER)	
307	A-4731-113-A	CONNECTOR BOARD, COMPLETE		S702	1-477-299-11	ENCODER, ROTARY (STOCKER POSITION)	
308	4-239-689-01	GEAR (STOCKER DECELERATION)		#4	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	
309	4-239-698-01	PULLEY (STOCKER)					

9-6. CD Mechanism Deck Section 3 (CDM69BV-30CBD64NS)



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
351	1-686-727-12	SW (1) BOARD		355	4-951-620-01	SCREW (2.6X8), +BVTP	
352	1-686-728-12	SW (2) BOARD		356	4-985-672-31	SCREW (+PTPWHM 2.6), FROATING	
353	1-686-729-12	SW (3) BOARD		357	4-227-899-01	SCREW (D1A,12), FROATING	
354	1-686-730-12	SW (4) BOARD		#5	7-685-533-14	SCREW +BTP 2.6X6 TYPE2 N-S	

9-7. CD Mechanism Deck Section 4 (CDM69BV-30CBD64NS)

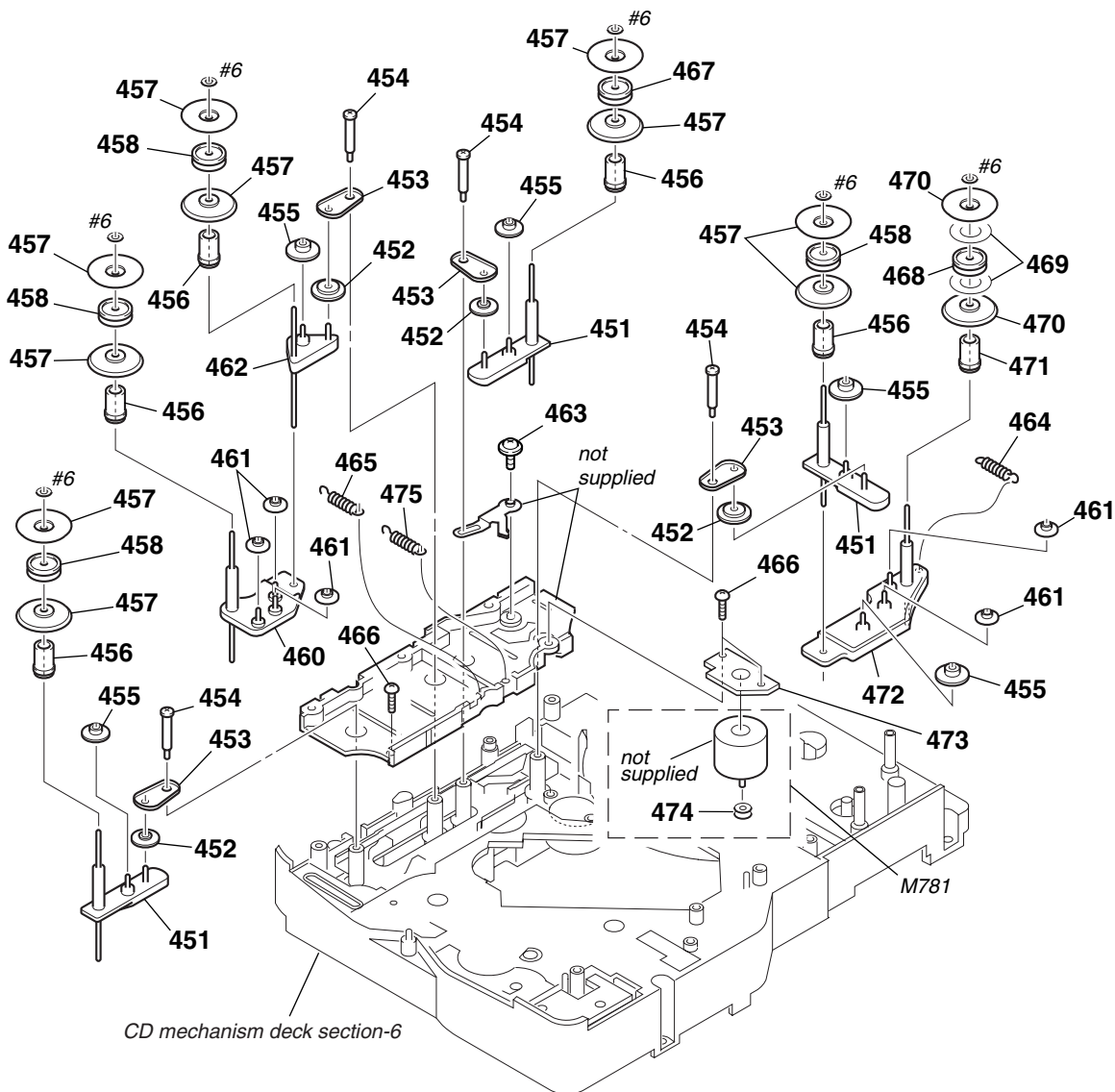


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
401	X-4955-447-1	PULLEY (A)(BU30) ASSY,CHUCKING		414	4-240-039-01	LEVER (DISC STOPPER)	
402	4-992-069-01	SCREW (+PTPWH) (M2) (DIA. 7)		415	4-239-702-01	ROLLER (DISC STOPPER)	
403	4-239-648-01	PARASOL (ROLLER)		416	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
404	4-239-646-01	ROLLER (ROLLER)		417	4-243-713-01	LEVER (LIFTER)	
405	4-239-641-01	SPRING (1.2), TENSION		418	4-239-647-01	PARASOL (MAIN)	
406	4-239-642-01	SPRING (3), TENSION COIL		419	4-243-916-01	ROLLER (S), RUBBER	
407	4-239-679-01	SPRING (5), TENSION COIL		420	4-241-599-01	LEVER (SUPPORT)	
408	4-243-714-01	PULLEY (B) (BU30), CHUCKING		421	4-228-414-01	BRACKET (YOKE)	
409	4-239-649-01	PARASOL (STOCKER)		422	4-239-643-01	SPRING (4), TENSION COIL	
411	4-244-035-01	ROLLER (STOCKER), RUBBER		423	4-243-914-01	SPRING (LIFTER), TORSION	
412	4-239-640-01	PINION (SLIDER)		424	4-244-032-01	ROLLER, RUBBER	
413	4-243-291-01	SPRING, TORSION					

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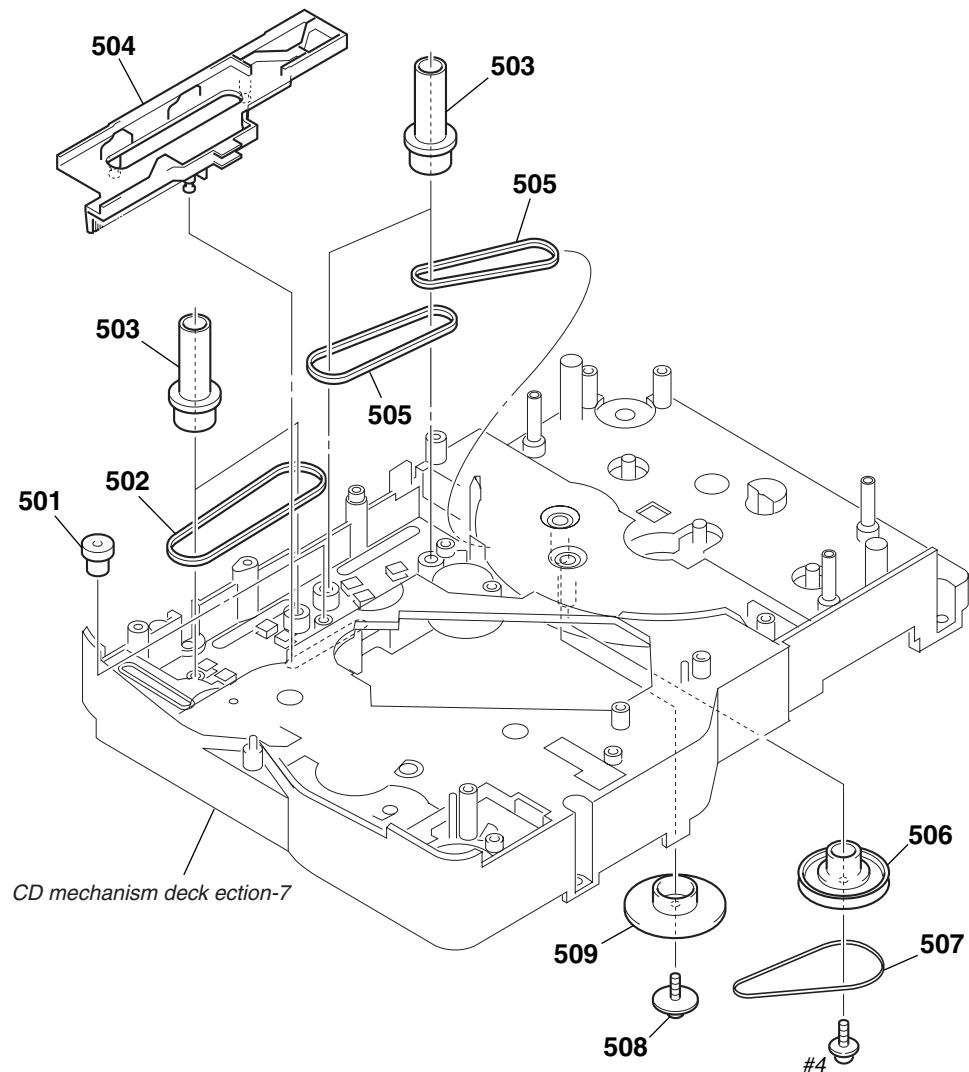
Ver 1.1 2003. 06

9-8. CD Mechanism Deck Section 5 (CDM69BV-30CBD64NS)

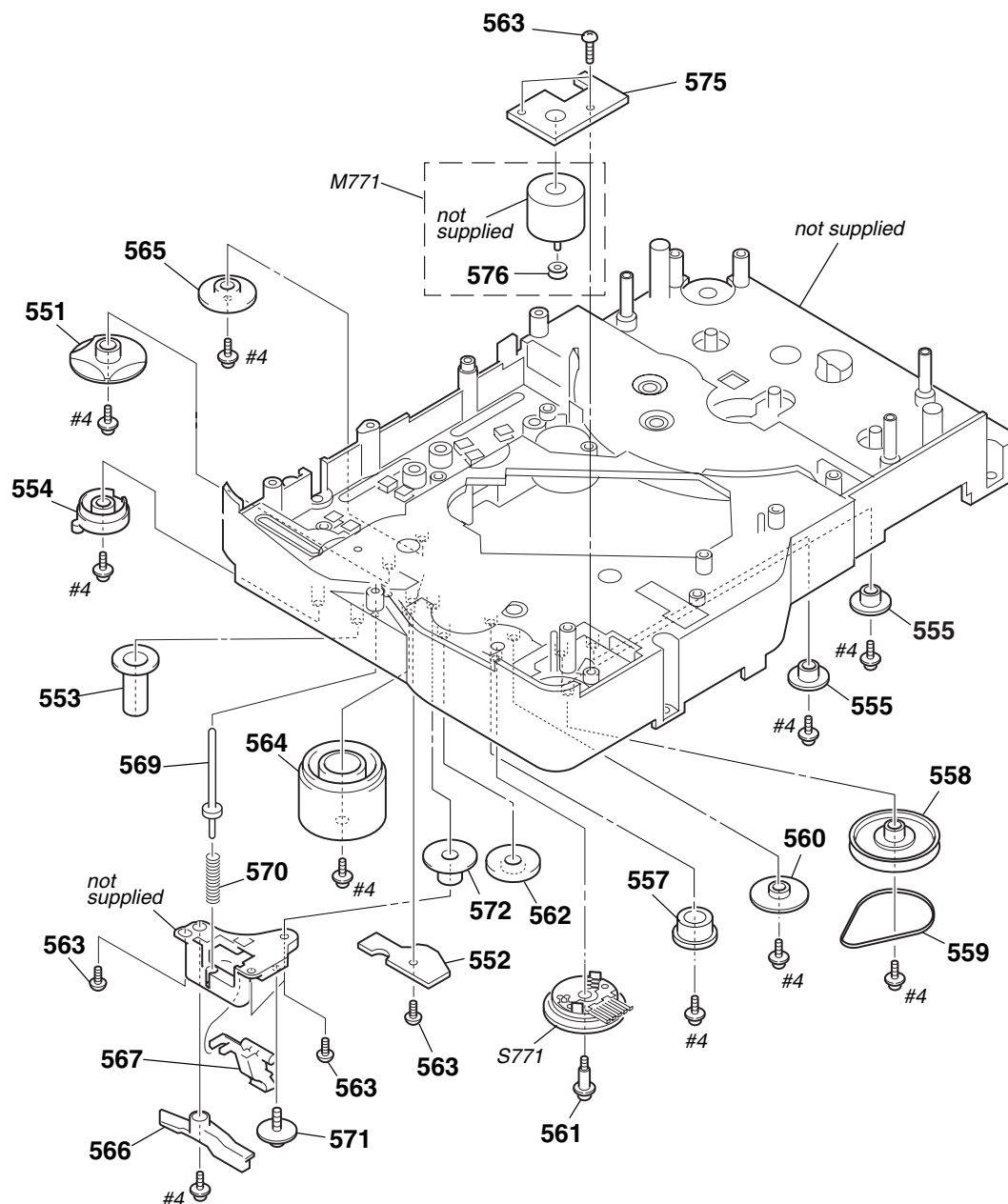


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
451	X-4954-626-1	LEVER (ROLLER) ASSY		465	4-240-041-01	SPRING (SLIDER 2), TENSION	
452	4-239-666-01	GEAR		466	4-951-620-01	SCREW (2.6X8), +BVTP	
453	4-239-668-01	LEVER (CENTER)		467	4-243-916-01	ROLLER (S), RUBBER	
454	4-239-652-01	SCREW (ROLLER), STEP		468	4-244-035-01	ROLLER (STOCKER), RUBBER	
455	4-239-669-01	GEAR (ROLLER COMMUNICATION)		469	4-241-209-01	SHEET, ADHESIVE	
456	4-239-667-01	GEAR (ROLLER CENTER)		470	4-239-649-01	PARASOL (STOCKER)	
457	4-239-647-01	PARASOL (MAIN)		471	4-239-671-01	GEAR (ROLLER 5 CENTER)	
458	4-244-032-01	ROLLER, RUBBER		472	X-4954-627-1	BASE (SLIDER 5) ASSY	
460	X-4954-622-1	BASE (SLIDER 2) ASSY		473	1-686-726-12	ROLLER MOTOR BOARD	
461	4-239-670-01	GEAR (ROLLER 5 COMMUNICATION)		474	4-986-156-01	PULLEY, MOTOR	
462	X-4954-624-A	LEVER (SLIDER 4) ASSY		475	4-244-162-01	SPRING (SLIDER 4), TENSION	
463	4-992-069-01	SCREW (+PTPWH)(M2)(DIA. 7)		M781	A-4735-953-A	MOTOR ASSY (ROLLER)	
464	4-240-981-01	SPRING (BASE SLIDER 5), TENSION		#6	7-623-921-01	RING, RETAINING, CAPSTAN	

9-9. CD Mechanism Deck Section 6 (CDM69BV-30CBD64NS)

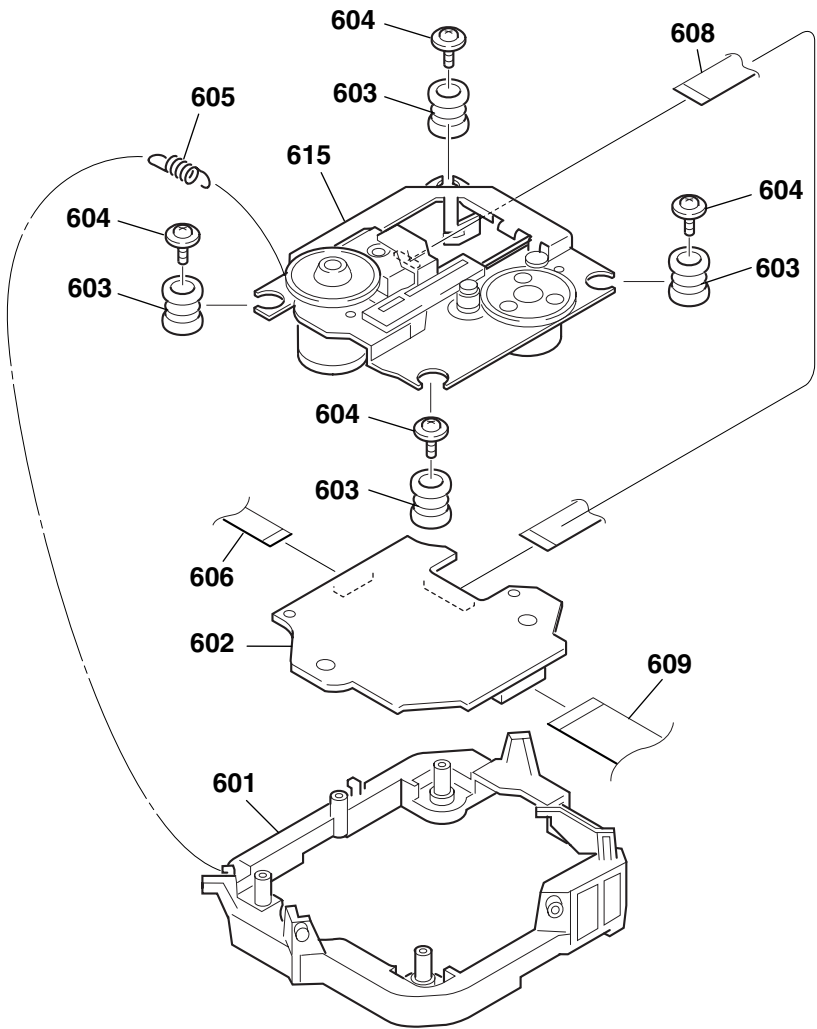


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501	4-240-020-01	GEAR (TIMING)		506	4-239-699-01	PULLEY	
502	4-239-708-02	BELT (FRONT), TIMING		507	4-247-349-01	BELT (ROLLER V)	
503	4-239-697-01	GEAR (CENTER)		508	4-227-899-01	SCREW (DIA. 12), FROATING	
504	X-4955-157-1	SLIDER (MODE CAM V) ASSY		509	4-239-686-01	GEAR (ROLLER DECELERATION)	
505	4-239-706-02	BELT (REAR), TIMING		#4	7-685-902-21	SCREW +PTPHW 2.6X8 (TYPE2)	

CX-LMN5**9-10. CD Mechanism Deck Section 7 (CDM69BV-30CBD64NS)**

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
551	4-239-693-02	CAM (GEAR)		565	4-239-694-01	GEAR (MODE CAM)	
552	1-686-723-12	SENSOR BOARD		566	4-241-731-01	SHUTTER (A), LEVER	
553	4-239-696-01	GEAR (EJECT LOCK)		567	4-241-732-01	SHUTTER (B), LEVER	
554	4-239-695-02	CAM (EJECT LOCK)		569	4-241-734-01	SHAFT (SHUTTER)	
555	4-240-019-01	GEAR (MODE 5)		570	4-241-735-01	SPRING (SHUTTER), COMPRESSION	
557	4-243-682-01	GEAR (MODE C)		571	4-685-672-01	SCREW (DIA. 12), FROATING	
558	4-239-683-01	PULLEY (MODE DECELERATION)		572	4-243-680-01	GEAR (MODE A)	
559	4-243-702-01	BELT (MODE V)		575	1-686-724-12	MODE MOTOR BOARD	
560	4-243-683-01	GEAR (MODE D)		576	4-986-156-01	PULLEY, MOTOR	
561	4-239-618-01	SCREW (+PWH, 2X6), STEP TAPPING		M771	A-4735-953-A	MOTOR ASSY (MODE)	
562	4-243-681-01	GEAR (MODE B)		S771	1-477-300-11	ENCODER, ROTARY (MODE)	
563	4-951-620-01	SCREW (2.6X8), +BVTP		#4	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	
564	4-239-692-02	CAM (BU U/D)					

9-11. Optical pick-up Section



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
601	4-243-716-01	HOLDER (BU-30)		606	1-827-492-11	WIRE (FLAT TYPE)(11 CORE)	
602	A-4731-674-A	BD BOARD, COMPLETE		608	1-782-817-11	WIRE (FLAT TYPE)(16 CORE)	
603	4-234-824-01	RUBBER, VIBRATION PROOF		609	1-827-491-11	WIRE (FLAT TYPE)(23 CORE)	
604	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING		△ 615	A-4735-189-A	BU-30 (61) ASSY	
605	4-244-960-02	SPRING (BU30-1), TENSION					

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 10

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

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

• CAPACITORS:
uF: μ F

• COILS
uH: μ H

• RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable

• Accessories are given in the last of this parts list.

• Abbreviation
AUS : Australian model.
CND : Canadian model.
SP : Singapore model.
TW : Taiwan model.
KR : Korean model.
TH : Thai model.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA..., μ PA...,
uPB..., μ PB..., uPC..., μ PC...,
uPD..., μ PD...
- When indicating parts by reference number, please include the board name.
- 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.
- | Ref. No. | Part No. | Description | Remarks | Ref. No. | Part No. | Description | Remarks |
|----------|--------------|---------------------------------|---------|----------|--------------|-----------------------------------|---------|
| | A-4731-674-A | BD BOARD, COMPLETE
***** | | C226 | 1-126-607-11 | ELECT CHIP 47uF 20% 4V | |
| | | < CAPACITOR > | | C227 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | |
| C101 | 1-164-315-11 | CERAMIC CHIP 470PF 5.00% 50V | | C229 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | |
| C102 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10.00% 16V | | C230 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | |
| C103 | 1-164-315-11 | CERAMIC CHIP 470PF 5.00% 50V | | C231 | 1-100-588-21 | ELECT CHIP 1000uF 20% 6.3V | |
| C104 | 1-162-967-11 | CERAMIC CHIP 0.0033uF 10% 50V | | C249 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | |
| C107 | 1-162-921-11 | CERAMIC CHIP 33PF 5% 50V | | C250 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | |
| C108 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | | C251 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | |
| C109 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | | C253 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | |
| C110 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10.00% 16V | | C254 | 1-162-919-11 | CERAMIC CHIP 22PF 5% 50V | |
| C111 | 1-126-607-11 | ELECT CHIP 47uF 20% 4V | | C255 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | |
| C112 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | | C256 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | |
| C113 | 1-128-995-21 | ELECT CHIP 100uF 20% 10V | | C257 | 1-128-934-91 | CERAMIC CHIP 0.33uF 20% 10V | |
| C114 | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% 50V | | C258 | 1-162-919-11 | CERAMIC CHIP 22PF 5% 50V | |
| C115 | 1-128-995-21 | ELECT CHIP 100uF 20% 10V | | C259 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | |
| C116 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10.00% 16V | | C260 | 1-128-590-11 | ELECT CHIP 100uF 20.00% 6.3V | |
| C117 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | | C261 | 1-126-246-11 | ELECT CHIP 220uF 20% 4V | |
| C118 | 1-115-156-11 | CERAMIC CHIP 1uF 10V | | C263 | 1-126-607-11 | ELECT CHIP 47uF 20% 4V | |
| C119 | 1-115-156-11 | CERAMIC CHIP 1uF 10V | | C264 | 1-126-607-11 | ELECT CHIP 47uF 20% 4V | |
| C121 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | | C265 | 1-126-607-11 | ELECT CHIP 47uF 20% 4V | |
| C122 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | | C266 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | |
| C131 | 1-110-563-11 | CERAMIC CHIP 0.068uF 10.00% 16V | | C267 | 1-162-968-11 | CERAMIC CHIP 0.0047uF 10% 50V | |
| C132 | 1-164-227-11 | CERAMIC CHIP 0.022uF 10% 25V | | C268 | 1-162-968-11 | CERAMIC CHIP 0.0047uF 10% 50V | |
| C133 | 1-125-838-11 | CERAMIC CHIP 2.2uF 10% 6.3V | | C269 | 1-126-607-11 | ELECT CHIP 47uF 20% 4V | |
| C150 | 1-128-394-11 | ELECT CHIP 220uF 20% 10V | | C270 | 1-162-960-11 | CERAMIC CHIP 220PF 10% 50V | |
| C151 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | | C271 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% 25V | |
| C152 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | | C273 | 1-162-960-11 | CERAMIC CHIP 220PF 10% 50V | |
| C153 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | | C274 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% 25V | |
| C156 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% 25V | | C292 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | |
| C169 | 1-128-394-11 | ELECT CHIP 220uF 20% 10V | | C310 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | |
| C202 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | | C313 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | |
| C203 | 1-162-964-11 | CERAMIC CHIP 0.001uF 10% 50V | | C314 | 1-115-156-11 | CERAMIC CHIP 1uF 10V | |
| C205 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | | C316 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | |
| C208 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | | | | < CONNECTOR > | |
| C209 | 1-162-927-11 | CERAMIC CHIP 100PF 5% 50V | | CN101 | 1-794-424-11 | CONNECTOR, FCC/FPC 16P | |
| C211 | 1-107-826-11 | CERAMIC CHIP 0.1uF 10.00% 16V | | CN102 | 1-784-834-21 | CONNECTOR,FFC (LIF (NON-ZIF)) 23P | |
| C212 | 1-162-965-11 | CERAMIC CHIP 0.0015uF 10% 50V | | CN104 | 1-784-863-21 | CONNECTOR,FFC (LIF (NON-ZIF)) 11P | |
| C213 | 1-162-967-11 | CERAMIC CHIP 0.0033uF 10% 50V | | | | < RESISTOR/FERRITE BEAD > | |
| C215 | 1-117-863-11 | CERAMIC CHIP 0.47uF 10.00% 6.3V | | FB102 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | |
| C216 | 1-162-970-11 | CERAMIC CHIP 0.01uF 10% 25V | | FB103 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | |
| C222 | 1-164-360-11 | CERAMIC CHIP 0.1uF 16V | | FB104 | 1-216-864-11 | METAL CHIP 0 5% 1/16W | |
| C224 | 1-115-156-11 | CERAMIC CHIP 1uF 10V | | * FB161 | 1-469-670-21 | FERRITE 0uH | |
| | | | | FB201 | 1-216-295-91 | SHORT CHIP 0 | |
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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
FB203	1-216-864-11	METAL CHIP	0 5% 1/16W	R206	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
FB204	1-216-295-91	SHORT CHIP	0	R207	1-216-857-11	METAL CHIP	1M 5% 1/16W
FB291	1-216-864-11	METAL CHIP	0 5% 1/16W	R216	1-216-857-11	METAL CHIP	1M 5% 1/16W
FB351	1-216-864-11	METAL CHIP	0 5% 1/16W	R218	1-216-821-11	METAL CHIP	1K 5% 1/16W
< IC >				R219	1-216-821-11	METAL CHIP	1K 5% 1/16W
IC101	8-752-408-73	IC CXD3068Q		R220	1-216-821-11	METAL CHIP	1K 5% 1/16W
IC102	8-759-713-70	IC AN41020A		R221	1-216-809-11	METAL CHIP	100 5% 1/16W
IC103	8-752-106-21	IC CXA2647N-T4		R222	1-216-809-11	METAL CHIP	100 5% 1/16W
IC104	6-701-810-01	IC TC94A20F-CX4		R223	1-216-809-11	METAL CHIP	100 5% 1/16W
IC121	6-700-394-01	IC BA25BC0FP-E2		R224	1-216-809-11	METAL CHIP	100 5% 1/16W
< RESISTOR >				R225	1-216-809-11	METAL CHIP	100 5% 1/16W
JR1	1-216-864-11	METAL CHIP	0 5% 1/16W	R226	1-216-809-11	METAL CHIP	100 5% 1/16W
< COIL/RESISTOR >				R227	1-216-809-11	METAL CHIP	100 5% 1/16W
L101	1-412-032-11	INDUCTOR CHIP	100uH	R230	1-216-811-11	METAL CHIP	150 5% 1/16W
L163	1-216-864-11	METAL CHIP	0 5% 1/16W	R231	1-216-815-11	METAL CHIP	330 5% 1/16W
< TRANSISTOR >				R232	1-216-815-11	METAL CHIP	330 5% 1/16W
Q101	8-729-046-90	TRANSISTOR	2SB970- (TX) S0	R233	1-216-815-11	METAL CHIP	330 5% 1/16W
< RESISTOR >				R249	1-216-818-11	METAL CHIP	560 5% 1/16W
R101	1-216-864-11	METAL CHIP	0 5% 1/16W	R250	1-216-813-11	METAL CHIP	220 5% 1/16W
R102	1-216-835-11	METAL CHIP	15K 5% 1/16W	R251	1-216-813-11	METAL CHIP	220 5% 1/16W
R103	1-216-845-11	METAL CHIP	100K 5% 1/16W	R252	1-216-857-11	METAL CHIP	1M 5% 1/16W
R104	1-216-835-11	METAL CHIP	15K 5% 1/16W	R253	1-216-821-11	METAL CHIP	1K 5% 1/16W
R105	1-216-821-11	METAL CHIP	1K 5% 1/16W	R255	1-216-809-11	METAL CHIP	100 5% 1/16W
R111	1-216-847-11	METAL CHIP	150K 5% 1/16W	R257	1-216-809-11	METAL CHIP	100 5% 1/16W
R113	1-218-701-11	METAL CHIP	2.4K 5% 1/10W	R259	1-216-809-11	METAL CHIP	100 5% 1/16W
R114	1-216-852-11	METAL CHIP	390K 5% 1/16W	R260	1-216-821-11	METAL CHIP	1K 5% 1/16W
R115	1-216-839-11	METAL CHIP	33K 5% 1/16W	R261	1-164-360-11	CERAMIC CHIP	0.1uF 16V
R116	1-216-839-11	METAL CHIP	33K 5% 1/16W	R265	1-216-813-11	METAL CHIP	220 5% 1/16W
R117	1-216-846-11	METAL CHIP	120K 5% 1/16W	R266	1-216-813-11	METAL CHIP	220 5% 1/16W
R118	1-216-833-11	METAL CHIP	10K 5% 1/16W	R271	1-216-833-11	METAL CHIP	10K 5% 1/16W
R120	1-216-846-11	METAL CHIP	120K 5% 1/16W	R272	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
R122	1-216-845-11	METAL CHIP	100K 5% 1/16W	R275	1-216-833-11	METAL CHIP	10K 5% 1/16W
R123	1-216-791-11	METAL CHIP	3.3 5% 1/16W	R276	1-216-809-11	METAL CHIP	100 5% 1/16W
R125	1-216-840-11	METAL CHIP	39K 5% 1/16W	R279	1-216-809-11	METAL CHIP	100 5% 1/16W
R126	1-216-840-11	METAL CHIP	39K 5% 1/16W	R291	1-216-864-11	METAL CHIP	0 5% 1/16W
R131	1-216-843-11	METAL CHIP	68K 5% 1/16W	R303	1-216-864-11	METAL CHIP	0 5% 1/16W
R132	1-216-851-11	METAL CHIP	330K 5% 1/16W	R308	1-216-864-11	METAL CHIP	0 5% 1/16W
R133	1-216-825-11	METAL CHIP	2.2K 5% 1/16W	R309	1-216-864-11	METAL CHIP	0 5% 1/16W
R151	1-216-845-11	METAL CHIP	100K 5% 1/16W	R310	1-216-864-11	METAL CHIP	0 5% 1/16W
R152	1-216-825-11	METAL CHIP	2.2K 5% 1/16W	R311	1-216-864-11	METAL CHIP	0 5% 1/16W
R155	1-216-864-11	METAL CHIP	0 5% 1/16W	R313	1-216-864-11	METAL CHIP	0 5% 1/16W
R162	1-216-833-11	METAL CHIP	10K 5% 1/16W	R314	1-216-864-11	METAL CHIP	0 5% 1/16W
R163	1-216-833-11	METAL CHIP	10K 5% 1/16W	R316	1-216-864-11	METAL CHIP	0 5% 1/16W
R166	1-216-821-11	METAL CHIP	1K 5% 1/16W	R318	1-216-864-11	METAL CHIP	0 5% 1/16W
R167	1-216-864-11	METAL CHIP	0 5% 1/16W	R319	1-216-864-11	METAL CHIP	0 5% 1/16W
R168	1-216-821-11	METAL CHIP	1K 5% 1/16W	R321	1-216-864-11	METAL CHIP	0 5% 1/16W
R169	1-216-864-11	METAL CHIP	0 5% 1/16W	R351	1-216-864-11	METAL CHIP	0 5% 1/16W
R199	1-216-864-11	METAL CHIP	0 5% 1/16W	< VARIABLE RESISTOR >			
R201	1-216-839-11	METAL CHIP	33K 5% 1/16W	RV101	1-223-997-21	RES, CARBON ADJ VAR 47K	
R202	1-216-833-11	METAL CHIP	10K 5% 1/16W	< VIBRATOR >			
R203	1-216-845-11	METAL CHIP	100K 5% 1/16W	X201	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)	
R204	1-216-827-11	METAL CHIP	3.3K 5% 1/16W	*****			
R205	1-216-821-11	METAL CHIP	1K 5% 1/16W				

CX-LMN5

CD-KEY

CONNECTOR

FAN

FRONT

Ref. No.	Part No.	Description	Remarks
	1-687-719-11	CD-KEY BOARD *****	
		< CONNECTOR >	
CN907	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	
		< RESISTOR >	
R950	1-216-821-11	METAL CHIP 1K 5%	1/16W
R952	1-216-821-11	METAL CHIP 1K 5%	1/16W
R954	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R955	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
R956	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
		< SWITCH >	
S926	1-771-855-21	SWITCH, KEYBOARD (▲ CD EJECT)	
S927	1-771-855-21	SWITCH, KEYBOARD (1)	
S928	1-771-855-21	SWITCH, KEYBOARD (2)	
S929	1-771-855-21	SWITCH, KEYBOARD (3)	
S930	1-771-855-21	SWITCH, KEYBOARD (4)	
		< DIODE >	
D701	8-719-921-40	DIODE MTZJ-T-77-4.7B	
D711	8-719-109-89	DIODE MTZJ-T-77-5.6B	
D721	8-719-982-03	DIODE MTZJ-T-77-3.6A	
		< CAPACITOR >	
C711	1-126-795-11	ELECT 10uF 20.00%	50V
C751	1-164-159-21	CERAMIC 0.1uF	50V
C752	1-164-159-21	CERAMIC 0.1uF	50V
C753	1-164-159-21	CERAMIC 0.1uF	50V
C754	1-164-159-21	CERAMIC 0.1uF	50V
		< CONNECTOR >	
CN701	1-779-564-21	CONNECTOR,FFC (LIF (NON-ZIF)) 27P	
CN702	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P	
CN703	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE) 2P	
* CN710	1-506-486-11	PIN, CONNECTOR 7P	
		< DIODE >	
D701	8-719-921-40	DIODE MTZJ-T-77-4.7B	
D711	8-719-109-89	DIODE MTZJ-T-77-5.6B	
D721	8-719-982-03	DIODE MTZJ-T-77-3.6A	

Ref. No.	Part No.	Description	Remarks
		< IC >	
IC701	8-759-598-69	IC BA6956AN	
IC711	8-759-598-69	IC BA6956AN	
IC721	8-759-598-69	IC BA6956AN	
		< TRANSISTOR >	
Q731	8-729-029-66	TRANSISTOR RT1N141S-TP	
		< RESISTOR >	
R701	1-249-415-11	CARBON 680 5%	1/4W F
R702	1-247-807-31	CARBON 100 5%	1/4W
R711	1-249-415-11	CARBON 680 5%	1/4W F
R712	1-247-807-31	CARBON 100 5%	1/4W
R721	1-249-415-11	CARBON 680 5%	1/4W F
		< CAPACITOR >	
C901	1-126-933-11	ELECT 100uF 20.00%	16V
C902	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C927	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
C928	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
C929	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
		< DIODE >	
D901	1-162-927-11	DIODE MTZJ-T-77-4.7B	
D911	1-162-927-11	DIODE MTZJ-T-77-5.6B	
D921	1-162-982-03	DIODE MTZJ-T-77-3.6A	
		< CAPACITOR >	
C931	1-126-933-11	ELECT 100uF 20.00%	16V
C932	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C957	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
C958	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
		< DIODE >	
D931	1-162-927-11	DIODE MTZJ-T-77-4.7B	
D932	1-162-927-11	DIODE MTZJ-T-77-5.6B	
D957	1-162-982-03	DIODE MTZJ-T-77-3.6A	
		< CAPACITOR >	
C961	1-126-933-11	ELECT 100uF 20.00%	16V
C962	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C987	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
C988	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
		< DIODE >	
D961	1-162-927-11	DIODE MTZJ-T-77-4.7B	
D962	1-162-927-11	DIODE MTZJ-T-77-5.6B	
D987	1-162-982-03	DIODE MTZJ-T-77-3.6A	
		< CAPACITOR >	
C991	1-126-933-11	ELECT 100uF 20.00%	16V
C992	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C997	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
		< DIODE >	
D991	1-162-927-11	DIODE MTZJ-T-77-4.7B	
D992	1-162-927-11	DIODE MTZJ-T-77-5.6B	
D997	1-162-982-03	DIODE MTZJ-T-77-3.6A	
		< CAPACITOR >	
C999	1-126-933-11	ELECT 100uF 20.00%	16V
C1000	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C1001	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
		< DIODE >	
D1001	1-162-927-11	DIODE MTZJ-T-77-4.7B	
D1002	1-162-927-11	DIODE MTZJ-T-77-5.6B	
D1007	1-162-982-03	DIODE MTZJ-T-77-3.6A	

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FRONT

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		< DIODE >					
D901	6-500-588-01	DIODE SLI-325URCT31W (POWER ⏻ STANDBY/ON)		R937	1-216-821-11	METAL CHIP 1K 5%	1/16W
D902	8-719-053-43	DIODE SLR-325VCT31 (i-Bass DEMO)		R938	1-218-867-11	METAL CHIP 6.8K 5%	1/10W
D996	8-719-076-06	DIODE 1SS381 (TPH3)		R939	1-216-838-11	METAL CHIP 27K 5%	1/16W
D997	8-719-076-06	DIODE 1SS381 (TPH3)		R940	1-216-841-11	METAL CHIP 47K 5%	1/16W
D998	8-719-076-06	DIODE 1SS381 (TPH3)		R941	1-216-823-11	METAL CHIP 1.5K 5%	1/16W
D999	8-719-076-06	DIODE 1SS381 (TPH3)		R942	1-216-821-11	METAL CHIP 1K 5%	1/16W
		< FERRITE BEAD >		R943	1-216-166-00	RES-CHIP 47 5%	1/8W
FB901	1-412-473-21	INDUCTOR 0uH		R943	1-216-841-11	METAL CHIP 47K 5%	1/16W (AEP,UK,E)
FB902	1-412-473-21	INDUCTOR 0uH		R944	1-216-842-11	METAL CHIP 56K 5%	1/16W
		< FLUORESCENT INDICATOR TUBE >		R945	1-216-833-11	METAL CHIP 10K 5%	1/16W
FL901	1-518-899-11	INDICATOR TUBE, FLUORESCENT		R946	1-216-821-11	METAL CHIP 1K 5%	1/16W
		< IC >		R948	1-216-821-11	METAL CHIP 1K 5%	1/16W
IC902	6-600-213-01	IC GP1UE271XK		R949	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
		< RESISTOR >		R960	1-216-833-11	METAL CHIP 10K 5%	1/16W
JR901	1-216-864-11	METAL CHIP 0 5% 1/16W (AEP,UK,E)		R961	1-216-821-11	METAL CHIP 1K 5%	1/16W
		< TRANSISTOR >		R963	1-216-821-11	METAL CHIP 1K 5%	1/16W
Q994	8-729-027-46	TRANSISTOR DTC114YKA-T146		R964	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
Q996	8-729-027-46	TRANSISTOR DTC114YKA-T146		R965	1-216-821-11	METAL CHIP 1K 5%	1/16W
Q997	8-729-027-46	TRANSISTOR DTC114YKA-T146		R967	1-216-821-11	METAL CHIP 1K 5%	1/16W
Q998	8-729-027-46	TRANSISTOR DTC114YKA-T146		R969	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
Q999	8-729-027-46	TRANSISTOR DTC114YKA-T146		R970	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
		< RESISTOR >		R971	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R909	1-216-845-11	METAL CHIP 100K 5% 1/16W		R972	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
R910	1-216-864-11	METAL CHIP 0 5% 1/16W		R973	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R911	1-216-864-11	METAL CHIP 0 5% 1/16W		R975	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R912	1-216-864-11	METAL CHIP 0 5% 1/16W		R977	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
R913	1-216-864-11	METAL CHIP 0 5% 1/16W		R978	1-216-833-11	METAL CHIP 10K 5%	1/16W
R914	1-216-864-11	METAL CHIP 0 5% 1/16W		R979	1-216-182-00	RES-CHIP 220 5%	1/8W
R915	1-216-864-11	METAL CHIP 0 5% 1/16W		R981	1-216-198-91	RES-CHIP 1K 5%	1/8W
R916	1-216-864-11	METAL CHIP 0 5% 1/16W		R987	1-216-198-91	RES-CHIP 1K 5%	1/8W
R917	1-216-864-11	METAL CHIP 0 5% 1/16W		R988	1-216-198-91	RES-CHIP 1K 5%	1/8W
R918	1-216-864-11	METAL CHIP 0 5% 1/16W		R989	1-216-296-11	SHORT CHIP 0	
R919	1-216-864-11	METAL CHIP 0 5% 1/16W		R990	1-216-296-11	SHORT CHIP 0	
R920	1-216-864-11	METAL CHIP 0 5% 1/16W		R991	1-216-829-11	METAL CHIP 4.7K 5%	1/16W
R921	1-216-864-11	METAL CHIP 0 5% 1/16W		R992	1-216-821-11	METAL CHIP 1K 5%	1/16W
R922	1-216-864-11	METAL CHIP 0 5% 1/16W		R993	1-216-198-91	RES-CHIP 1K 5%	1/8W
R923	1-216-864-11	METAL CHIP 0 5% 1/16W		R994	1-216-198-91	RES-CHIP 1K 5%	1/8W
R924	1-216-864-11	METAL CHIP 0 5% 1/16W		R995	1-216-230-00	RES-CHIP 22K 5%	1/8W
R925	1-216-841-11	METAL CHIP 47K 5% 1/16W		R996	1-216-230-00	RES-CHIP 22K 5%	1/8W
R926	1-216-838-11	METAL CHIP 27K 5% 1/16W		R997	1-216-158-00	RES-CHIP 22 5%	1/8W
R927	1-218-867-11	METAL CHIP 6.8K 5% 1/10W				< SWITCH >	
R930	1-216-821-11	METAL CHIP 1K 5% 1/16W		S921	1-786-398-11	ENCODER, ROTARY (VOLUME)	
R931	1-216-823-11	METAL CHIP 1.5K 5% 1/16W		S922	1-418-859-21	ENCODER, ROTARY (BASS)	
R932	1-218-867-11	METAL CHIP 6.8K 5% 1/10W		S923	1-418-859-21	ENCODER, ROTARY (TREBLE)	
R934	1-216-838-11	METAL CHIP 27K 5% 1/16W		S924	1-771-855-21	SWITCH, KEYBOARD (POWER ⏻ STANDBY/ON)	
R935	1-216-841-11	METAL CHIP 47K 5% 1/16W		S925	1-771-855-21	SWITCH, KEYBOARD (AEP,UK:ECO/RDS EXCEPT AEP,UK:ECO)	
R936	1-216-823-11	METAL CHIP 1.5K 5% 1/16W		S932	1-771-855-21	SWITCH, KEYBOARD (■)	
				S933	1-771-855-21	SWITCH, KEYBOARD (REC START, REC PAUSE)	
				S934	1-771-855-21	SWITCH, KEYBOARD (SYNCHRO REC)	
				S935	1-771-855-21	SWITCH, KEYBOARD (CD)	
				S936	1-771-855-21	SWITCH, KEYBOARD (TUNER, BAND)	
				S937	1-771-855-21	SWITCH, KEYBOARD (TAPE (REC MUTING))	
				S938	1-771-855-21	SWITCH, KEYBOARD (AUX)	
				S939	1-771-855-21	SWITCH, KEYBOARD (◀▶ -)	
				S940	1-771-855-21	SWITCH, KEYBOARD (+ ▶▶▶)	
				S941	1-771-855-21	SWITCH, KEYBOARD (i-Bass, DEMO)	

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HP

MAIN

Ref. No.	Part No.	Description	Remarks			
	1-687-716-11	HP BOARD	*****			
		< JACK >				
J202	1-816-219-11	JACK, HEADPHONE (PHONES)				
		< RESISTOR >				
R259	1-260-320-11	CARBON	220	5%	1/2W	
R260	1-260-320-11	CARBON	220	5%	1/2W	
R261	1-260-320-11	CARBON	220	5%	1/2W	
R262	1-260-320-11	CARBON	220	5%	1/2W	
R263	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R264	1-249-421-11	CARBON	2.2K	5%	1/4W	F
		< CABLE HOLDER >				
WH203	1-784-582-11	HOLDER, CABLE (2.5mm PITCH) 5P	*****			
	A-4732-968-A	MAIN BOARD, COMPLETE (US,CND)				
	A-4734-789-A	MAIN BOARD, COMPLETE (AEP,UK)				
	A-4734-817-A	MAIN BOARD, COMPLETE (E)				
	A-4747-822-A	MAIN BOARD, COMPLETE (SP,AUS)				
	A-4748-116-A	MAIN BOARD, COMPLETE (TH)				
	A-4748-600-A	MAIN BOARD, COMPLETE (KR)				
	A-4748-602-A	MAIN BOARD, COMPLETE (TW)	*****			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3				
		< CAPACITOR >				
C003	1-131-992-91	CERAMIC CHIP	100000PF		35V	
C004	1-131-992-91	CERAMIC CHIP	100000PF		35V	
C005	1-131-992-91	CERAMIC CHIP	100000PF		35V	
C006	1-131-992-91	CERAMIC CHIP	100000PF		35V	
C009	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C010	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C011	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C012	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C013	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
C014	1-126-935-11	ELECT	470uF	20.00%	16V	
C015	1-126-933-11	ELECT	100uF	20.00%	16V	
C016	1-162-974-11	CERAMIC CHIP	0.01uF		50V	
C017	1-126-964-11	ELECT	10uF	20.00%	50V	
C018	1-126-933-11	ELECT	100uF	20.00%	16V	
C019	1-104-482-11	ELECT	4700uF	20.00%	63V	
C020	1-104-482-11	ELECT	4700uF	20.00%	63V	
C021	1-126-946-11	ELECT	6800uF	20.00%	25V	
C022	1-126-946-11	ELECT	6800uF	20.00%	25V	
C023	1-126-948-11	ELECT	100uF	20.00%	35V	
C024	1-126-948-11	ELECT	100uF	20.00%	35V	
C025	1-126-968-11	ELECT	100uF	20.00%	50V	
C026	1-126-968-11	ELECT	100uF	20.00%	50V	
C027	1-127-720-91	ELECT	470uF	20%	16V	
C030	1-164-360-11	CERAMIC CHIP	0.1uF		16V	
C031	1-104-665-11	ELECT	100uF	20.00%	25V	
C034	1-126-947-11	ELECT	47uF	20.00%	25V	
C035	1-126-968-11	ELECT	100uF	20.00%	50V	
C036	1-127-720-91	ELECT	470uF	20%	16V	
C060	1-126-965-91	ELECT	22uF	20.00%	50V	

Ref. No.	Part No.	Description	Remarks			
C061	1-126-947-11	ELECT	47uF	20.00%	25V	
C062	1-126-960-11	ELECT	1uF	20.00%	50V	
C083	1-126-941-11	ELECT	470uF	20.00%	25V	
C097	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C102	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C103	1-119-820-31	ELECT	1uF	20.00%	50V	
C104	1-119-820-31	ELECT	1uF	20.00%	50V	
C107	1-126-947-11	ELECT	47uF	20.00%	25V	
C108	1-126-947-11	ELECT	47uF	20.00%	25V	
C111	1-126-966-11	ELECT	33uF	20.00%	50V	
C112	1-126-966-11	ELECT	33uF	20.00%	50V	
C113	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C114	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C117	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C118	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V	
C119	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C120	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C121	1-119-820-31	ELECT	1uF	20.00%	50V	
C122	1-119-820-31	ELECT	1uF	20.00%	50V	
C123	1-164-473-11	CERAMIC CHIP	820PF	5.00%	50V	
C124	1-164-473-11	CERAMIC CHIP	820PF	5.00%	50V	
C125	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C126	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C127	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
C128	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
C201	1-126-947-11	ELECT	47uF	20.00%	25V	
C202	1-126-947-11	ELECT	47uF	20.00%	25V	
C203	1-163-833-00	CERAMIC CHIP	0.068uF		25V	
C204	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C205	1-128-552-51	ELECT	47uF	20.00%	63V	
C206	1-128-552-51	ELECT	47uF	20.00%	63V	
C207	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C208	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	
C210	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
C211	1-135-995-91	CERAMIC CHIP	39000PF	10%	25V	
C217	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C225	1-130-495-00	MYLAR	0.1uF	5%	50V	
C226	1-130-495-00	MYLAR	0.1uF	5%	50V	
C227	1-130-495-00	MYLAR	0.1uF	5%	50V	
C228	1-130-495-00	MYLAR	0.1uF	5%	50V	
C231	1-162-961-11	CERAMIC CHIP	330PF	10%	50V	
C232	1-162-961-11	CERAMIC CHIP	330PF	10%	50V	
C233	1-162-961-11	CERAMIC CHIP	330PF	10%	50V	
C234	1-162-961-11	CERAMIC CHIP	330PF	10%	50V	
△ C250	1-113-920-11	CERAMIC	0.0022uF	20.00%	250V	(E,SP,TW,AUS)
△ C251	1-113-920-11	CERAMIC	0.0022uF	20.00%	250V	(E,SP,TW,AUS)
△ C253	1-113-920-11	CERAMIC	0.0022uF	20.00%	250V	(EXCEPT E,SP,TW,AUS)
C270	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C271	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
C291	1-126-963-11	ELECT	4.7uF	20.00%	50V	
C292	1-126-933-11	ELECT	100uF	20.00%	16V	

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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.

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MAIN

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
C293	1-126-947-11	ELECT	47uF 20.00% 16V	C643	1-162-959-11	CERAMIC CHIP 330PF 5%	50V
C301	1-164-315-11	CERAMIC CHIP	470PF 5.00% 50V	C644	1-162-959-11	CERAMIC CHIP 330PF 5%	50V
C303	1-164-730-11	CERAMIC CHIP	0.0012uF 10.00% 50V	C645	1-162-963-11	CERAMIC CHIP 680PF 10%	50V
C304	1-164-730-11	CERAMIC CHIP	0.0012uF 10.00% 50V	C646	1-162-963-11	CERAMIC CHIP 680PF 10%	50V
C310	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	C647	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C363	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C648	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C451	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C655	1-126-963-11	ELECT 4.7uF 20.00%	50V
C452	1-126-965-91	ELECT	22uF 20.00% 50V	C656	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C453	1-162-979-11	CERAMIC CHIP	0.0027uF 10.00% 50V	C665	1-165-176-11	CERAMIC CHIP 0.047uF 10.00%	16V
C454	1-162-979-11	CERAMIC CHIP	0.0027uF 10.00% 50V	C666	1-165-176-11	CERAMIC CHIP 0.047uF 10.00%	16V
C455	1-162-979-11	CERAMIC CHIP	0.0027uF 10.00% 50V	C668	1-126-947-11	ELECT 47uF 20.00%	16V (AEP,UK)
C456	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C669	1-107-826-11	CERAMIC CHIP 0.1uF 10.00%	16V (AEP,UK)
C457	1-137-459-11	MYLAR	0.0056uF 5.00% 100V	C670	1-127-718-91	ELECT 100uF 20%	16V
C458	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	C671	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C459	1-164-739-11	CERAMIC CHIP	560PF 5.00% 50V	C673	1-126-963-11	ELECT 4.7uF 20.00%	50V
C460	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C674	1-126-963-11	ELECT 4.7uF 20.00%	50V
C461	1-164-392-11	CERAMIC CHIP	390PF 5.00% 50V	C675	1-162-967-11	CERAMIC CHIP 0.0033uF 10%	50V
C462	1-164-392-11	CERAMIC CHIP	390PF 5.00% 50V	C676	1-162-967-11	CERAMIC CHIP 0.0033uF 10%	50V
C463	1-164-156-11	CERAMIC CHIP	0.1uF 25V	C677	1-164-677-11	CERAMIC CHIP 0.033uF 10.00%	16V
C464	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V	C678	1-164-677-11	CERAMIC CHIP 0.033uF 10.00%	16V
C601	1-128-832-11	ELECT	220uF 20% 10V	C679	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C602	1-127-718-91	ELECT	100uF 20% 16V	C680	1-127-718-91	ELECT 100uF 20%	16V
C603	1-164-360-11	CERAMIC CHIP	0.1uF 16V	C681	1-126-964-11	ELECT 10uF 20.00%	50V
C604	1-164-360-11	CERAMIC CHIP	0.1uF 16V	C682	1-137-378-11	MYLAR 0.22uF 5.00%	50V
C605	1-126-933-11	ELECT	100uF 20.00% 16V	C683	1-137-378-11	MYLAR 0.22uF 5.00%	50V
C606	1-126-933-11	ELECT	100uF 20.00% 16V	C685	1-126-960-11	ELECT 1uF 20.00%	50V
C607	1-162-923-11	CERAMIC CHIP	47PF 5% 50V	C686	1-126-960-11	ELECT 1uF 20.00%	50V
C608	1-162-923-11	CERAMIC CHIP	47PF 5% 50V	C691	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C609	1-162-969-11	CERAMIC CHIP	0.0068uF 10% 25V	C692	1-126-947-11	ELECT 47uF 20.00%	16V
C610	1-162-969-11	CERAMIC CHIP	0.0068uF 10% 25V	C867	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V (AEP,UK)
C611	1-164-315-11	CERAMIC CHIP	470PF 5.00% 50V	C872	1-162-967-11	CERAMIC CHIP 0.0033uF 10%	50V
C612	1-164-315-11	CERAMIC CHIP	470PF 5.00% 50V	C873	1-162-967-11	CERAMIC CHIP 0.0033uF 10%	50V
C613	1-126-963-11	ELECT	4.7uF 20.00% 50V	C902	1-125-837-91	CERAMIC CHIP 1uF 10%	6.3V
C614	1-126-963-11	ELECT	4.7uF 20.00% 50V	C905	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C615	1-136-169-00	FILM	0.22uF 5.00% 50V	C906	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C616	1-136-169-00	FILM	0.22uF 5.00% 50V	C907	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C617	1-136-169-00	FILM	0.22uF 5.00% 50V	C908	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C618	1-136-169-00	FILM	0.22uF 5.00% 50V	C909	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C619	1-115-416-11	CERAMIC CHIP	0.001uF 5.00% 25V	C910	1-162-917-11	CERAMIC CHIP 15PF 5%	50V (US,CND)
C620	1-115-416-11	CERAMIC CHIP	0.001uF 5.00% 25V	C910	1-162-918-11	CERAMIC CHIP 18PF 5.00%	50V (AEP,UK,E)
C621	1-115-416-11	CERAMIC CHIP	0.001uF 5.00% 25V	C911	1-162-917-11	CERAMIC CHIP 15PF 5%	50V (US,CND)
C622	1-115-416-11	CERAMIC CHIP	0.001uF 5.00% 25V	C911	1-162-919-11	CERAMIC CHIP 22PF 5%	50V (AEP,UK,E)
C623	1-115-416-11	CERAMIC CHIP	0.001uF 5.00% 25V	C912	1-162-927-11	CERAMIC CHIP 100PF 5%	50V (US,CND)
C624	1-115-416-11	CERAMIC CHIP	0.001uF 5.00% 25V	C912	1-162-919-11	CERAMIC CHIP 22PF 5%	50V (AEP,UK,E)
C625	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C913	1-162-917-11	CERAMIC CHIP 15PF 5%	50V (US,CND)
C626	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C913	1-216-864-11	METAL CHIP 0 5%	1/16W (AEP,UK,E)
C627	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	C914	1-162-921-11	CERAMIC CHIP 33PF 5%	50V (US,CND)
C628	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V				
C629	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V				
C630	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V				
C631	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V				
C632	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V				
C634	1-164-218-11	CERAMIC CHIP	180PF 0.25PF 50V				
C635	1-164-218-11	CERAMIC CHIP	180PF 0.25PF 50V				
C637	1-162-969-11	CERAMIC CHIP	0.0068uF 10% 25V				
C638	1-162-969-11	CERAMIC CHIP	0.0068uF 10% 25V				
C639	1-126-947-11	ELECT	47uF 20.00% 25V				
C640	1-126-947-11	ELECT	47uF 20.00% 25V				

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Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
C914	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	(AEP,UK,E)		D023	8-719-200-02	DIODE 1N4003			
C915	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V			D029	8-719-983-92	DIODE MTZJ-T-72-36B			
C916	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V			D030	8-719-991-33	DIODE 1SS133T-72			
C917	1-164-230-11	CERAMIC CHIP 220PF 5.00%	50V			D034	8-719-991-33	DIODE 1SS133T-72			
C918	1-164-230-11	CERAMIC CHIP 220PF 5.00%	50V			D035	8-719-991-33	DIODE 1SS133T-72			
C919	1-164-230-11	CERAMIC CHIP 220PF 5.00%	50V			D036	8-719-991-33	DIODE 1SS133T-72			
C924	1-126-934-11	ELECT 220uF 20.00%	10V			D041	8-719-801-78	DIODE 1SS184-TE85L			
C925	1-164-360-11	CERAMIC CHIP 0.1uF	16V			D042	8-719-820-05	DIODE 1SS181-TE85L			
C926	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V			D061	8-719-991-33	DIODE 1SS133T-72			
C927	1-164-360-11	CERAMIC CHIP 0.1uF	16V			D063	8-719-801-78	DIODE 1SS184-TE85L			
C930	1-164-360-11	CERAMIC CHIP 0.1uF	16V			D064	8-719-820-05	DIODE 1SS181-TE85L			
C932	1-164-360-11	CERAMIC CHIP 0.1uF	16V			D072	8-719-801-78	DIODE 1SS184-TE85L			
C933	1-128-551-11	ELECT 22uF 20.00%	25V			D076	8-719-820-05	DIODE 1SS181-TE85L			
C934	1-126-933-11	ELECT 100uF 20.00%	16V			D077	8-719-801-78	DIODE 1SS184-TE85L			
C936	1-126-933-11	ELECT 100uF 20.00%	16V			D078	8-719-820-05	DIODE 1SS181-TE85L			
C937	1-164-360-11	CERAMIC CHIP 0.1uF	16V			D101	8-719-820-05	DIODE 1SS181-TE85L			
C941	1-164-360-11	CERAMIC CHIP 0.1uF	16V			D103	8-719-991-33	DIODE 1SS133T-72			
C942	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V			D104	8-719-991-33	DIODE 1SS133T-72			
C943	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V			D105	8-719-820-05	DIODE 1SS181-TE85L			
C944	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V			D106	8-719-820-05	DIODE 1SS181-TE85L			
C945	1-164-360-11	CERAMIC CHIP 0.1uF	16V			D107	8-719-801-78	DIODE 1SS184-TE85L			
C946	1-162-927-11	CERAMIC CHIP 100PF 5%	50V			D108	8-719-801-78	DIODE 1SS184-TE85L			
C947	1-162-927-11	CERAMIC CHIP 100PF 5%	50V			D109	8-719-970-83	DIODE 1SS244-T-77			
C948	1-162-927-11	CERAMIC CHIP 100PF 5%	50V			D110	8-719-970-83	DIODE 1SS244-T-77			
C949	1-162-927-11	CERAMIC CHIP 100PF 5%	50V			D150	8-719-801-78	DIODE 1SS184-TE85L			
C950	1-162-927-11	CERAMIC CHIP 100PF 5%	50V			D201	8-719-312-08	DIODE FMB-G16L			
C951	1-162-927-11	CERAMIC CHIP 100PF 5%	50V			D202	8-719-312-08	DIODE FMB-G16L			
C952	1-162-927-11	CERAMIC CHIP 100PF 5%	50V			D203	8-719-921-92	DIODE MTZJ-15B			
C953	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V			D204	8-719-991-33	DIODE 1SS133T-72			
C955	1-164-360-11	CERAMIC CHIP 0.1uF	16V			D205	8-719-991-33	DIODE 1SS133T-72			
C956	1-164-360-11	CERAMIC CHIP 0.1uF	16V			D206	8-719-991-33	DIODE 1SS133T-72			
< CONNECTOR >						D207	8-719-991-33	DIODE 1SS133T-72			
△ CN202	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P				D208	8-719-991-33	DIODE 1SS133T-72			
CN201	1-817-541-11	CONNECTOR 5P				D209	8-719-991-33	DIODE 1SS133T-72			
△ CN252	1-564-687-11	PIN, CONNECTOR (3.96mm PITCH) 3P				D210	8-719-991-33	DIODE 1SS133T-72			
(E,SP,TW,AUS)						D211	8-719-947-64	DIODE MTZJ-T-72-16A			
* CN302	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P				D212	8-719-991-33	DIODE 1SS133T-72			
CN601	1-779-279-11	CONNECTOR,FFC (LIF (NON-ZIF)) 11P				D231	8-719-991-33	DIODE 1SS133T-72			
						D232	8-719-991-33	DIODE 1SS133T-72			
CN602	1-568-830-11	CONNECTOR, FFC 11P (EXCEPT AEP,UK)				D233	8-719-991-33	DIODE 1SS133T-72			
CN602	1-784-776-11	CONNECTOR, FFC 15P (AEP,UK)				D234	8-719-991-33	DIODE 1SS133T-72			
CN901	1-779-295-11	CONNECTOR,FFC (LIF (NON-ZIF)) 27P				D250	8-719-801-78	DIODE 1SS184-TE85L			
CN902	1-779-291-11	CONNECTOR,FFC (LIF (NON-ZIF)) 23P				D251	8-719-991-33	DIODE 1SS133T-72			
CN903	1-691-040-31	CONNECTOR, FFC 8P				D252	8-719-991-33	DIODE 1SS133T-72			
						D253	8-719-991-33	DIODE 1SS133T-72			
CN904	1-779-285-11	CONNECTOR,FFC (LIF (NON-ZIF)) 17P				D254	8-719-991-33	DIODE 1SS133T-72			
< DIODE >						D255	8-719-991-33	DIODE 1SS133T-72			
						D280	8-719-820-05	DIODE 1SS181-TE85L			
D001	8-719-500-60	DIODE D5SBA20				D281	8-719-801-78	DIODE 1SS184-TE85L			
D002	8-719-500-60	DIODE D5SBA20				D291	8-719-991-33	DIODE 1SS133T-72			
D011	8-719-991-33	DIODE 1SS133T-77									
D012	8-719-991-33	DIODE 1SS133T-77				D292	8-719-991-33	DIODE 1SS133T-72			
D015	8-719-983-62	DIODE MTZJ-T-72-3.3A				D301	8-719-820-05	DIODE 1SS181-TE85L			
						D601	8-719-947-12	DIODE MTZJ-T-72-4.7A			
D016	8-719-991-33	DIODE 1SS133T-72				D602	8-719-947-12	DIODE MTZJ-T-72-4.7A			
D017	8-719-991-33	DIODE 1SS133T-72				D670	8-719-109-93	DIODE MTZJ-T-72-6.2B			
D020	8-719-991-33	DIODE 1SS133T-72									
D021	8-719-048-55	DIODE MTZJ-T-77-10C									
D022	8-719-200-02	DIODE 1N4003									
The components identified by							Les composants identifiés par				

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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
D901	8-719-991-33	DIODE 1SS133T-72		Q002	8-729-045-00	TRANSISTOR KTA1266GR-AT	
D902	8-719-820-05	DIODE 1SS181-TE85L		Q003	8-729-049-31	TRANSISTOR 2SB710A-RTX	
D904	8-719-991-33	DIODE 1SS133T-72		Q006	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
D905	8-719-991-33	DIODE 1SS133T-72		Q008	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
D906	8-719-991-33	DIODE 1SS133T-72					
D907	8-719-991-33	DIODE 1SS133T-72		Q009	8-729-045-00	TRANSISTOR KTA1266GR-AT	
D908	8-719-820-05	DIODE 1SS181-TE85L		Q010	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
D909	8-719-820-05	DIODE 1SS181-TE85L		Q011	8-729-024-93	TRANSISTOR 2SB1370-E	
D910	8-719-048-55	DIODE MTZJ-T-77-10C		Q012	8-729-011-92	TRANSISTOR 2SC2001TP-K1K2	
				Q015	8-729-049-31	TRANSISTOR 2SB710A-RTX	
< FERRITE BEAD >				Q018	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
FB001	1-412-473-21	INDUCTOR 0uH		Q019	8-729-024-93	TRANSISTOR 2SB1370-E	
FB601	1-216-295-91	SHORT CHIP 0		Q020	8-729-195-23	TRANSISTOR 2SA952TP-K1K2	
FB602	1-216-295-91	SHORT CHIP 0		Q021	8-729-027-46	TRANSISTOR DTC114YKA-T146	
				Q060	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
< IC >				Q061	8-729-049-31	TRANSISTOR 2SB710A-RTX	
IC001	8-759-071-48	IC TA7807S		Q062	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
IC601	6-702-800-01	IC BD3882FV		Q063	8-729-049-31	TRANSISTOR 2SB710A-RTX	
IC602	6-704-074-01	IC NJM2156M (TE2)		Q064	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
IC603	6-600-234-01	IC GP1FA313TZ (DIGITAL OUT (OPTICAL))	(AEP,UK)	Q065	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
IC901	6-802-947-01	IC LC875280A-51E6		Q066	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
IC904	8-759-533-04	IC M62703ML-E1		Q101	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
IC905	6-704-135-01	IC MM1614A		Q102	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
				Q103	8-729-021-88	TRANSISTOR 2SA1587-BL (TE85L)	
				Q104	8-729-021-88	TRANSISTOR 2SA1587-BL (TE85L)	
< JACK >				Q105	8-729-021-88	TRANSISTOR 2SA1587-BL (TE85L)	
* J201	1-537-240-41	TERMINAL BOARD (CHECKER PIN)(SPEAKERS ㉔)		Q106	8-729-021-88	TRANSISTOR 2SA1587-BL (TE85L)	
J602	1-817-574-11	PIN JACK 3P (AUX IN,SUB WOOFER ㉔)		Q107	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
				Q108	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
				Q109	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
< JUMPER RESISTOR >				Q110	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
JR001	1-216-864-11	METAL CHIP 0 5% 1/16W		Q111	8-729-255-12	TRANSISTOR 2SC2910S-TP (US,CND)	
JR011	1-216-170-00	RES-CHIP 68 5% 1/8W		Q111	8-729-019-55	TRANSISTOR 2SC2910T-TP (AEP,UK,E)	
		(EXCEPT E,SP,TW,AUS)		Q112	8-729-255-12	TRANSISTOR 2SC2910S-TP (US,CND)	
JR011	1-216-158-00	RES-CHIP 22 5% 1/8W		Q112	8-729-019-55	TRANSISTOR 2SC2910T-TP (AEP,UK,E)	
		(E,SP,TW,AUS)		Q113	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
JR613	1-216-864-11	METAL CHIP 0 5% 1/16W		Q114	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
		(AEP,UK)		Q115	8-729-429-61	TRANSISTOR 2SD814S-TW	
JR614	1-216-864-11	METAL CHIP 0 5% 1/16W		Q116	8-729-429-61	TRANSISTOR 2SD814S-TW	
		(AEP,UK)		Q117	6-550-292-01	TRANSISTOR FP1016	
JR615	1-216-864-11	METAL CHIP 0 5% 1/16W		Q118	6-550-292-01	TRANSISTOR FP1016	
JR616	1-216-864-11	METAL CHIP 0 5% 1/16W		Q119	6-550-291-01	TRANSISTOR FN1016	
		(AEP,UK)		Q120	6-550-291-01	TRANSISTOR FN1016	
JR617	1-216-864-11	METAL CHIP 0 5% 1/16W		Q123	8-729-021-88	TRANSISTOR 2SA1587-BL (TE85L)	
JR618	1-216-864-11	METAL CHIP 0 5% 1/16W		Q124	8-729-021-88	TRANSISTOR 2SA1587-BL (TE85L)	
JR901	1-216-864-11	METAL CHIP 0 5% 1/16W					
		(EXCEPT SP,TW,TH,KR)		Q127	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
< COIL >				Q128	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
L201	1-422-009-13	COIL, AIR CORE		Q201	6-550-040-01	TRANSISTOR 2SK3053	
L202	1-422-009-13	COIL, AIR CORE		Q202	6-550-040-01	TRANSISTOR 2SK3053	
L451	1-456-094-11	COIL, OSC 85KHZ BIAS		Q203	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
< TRANSFORMER >				Q204	8-729-049-31	TRANSISTOR 2SB710A-RTX	
△ PT251	1-439-734-11	TRANSFORMER, POWER (US,CND)		Q205	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
△ PT251	1-439-736-11	TRANSFORMER, POWER (E,SP,TW,AUS)		Q206	8-729-049-31	TRANSISTOR 2SB710A-RTX	
△ PT251	1-439-735-11	TRANSFORMER, POWER (AEP,UK,KR,TH)		Q207	8-729-120-28	TRANSISTOR 2SC3052F-T2-LF	
				Q208	8-729-049-31	TRANSISTOR 2SB710A-RTX	
< TRANSISTOR >				Q210	8-729-049-31	TRANSISTOR 2SB710A-RTX	
Q001	8-729-045-00	TRANSISTOR KTA1266GR-AT		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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Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
Q235	8-729-049-31	TRANSISTOR	2SB710A-RTX	R017	1-216-841-11	METAL CHIP	47K 5% 1/16W
Q250	8-729-429-61	TRANSISTOR	2SD814S-TW	R018	1-216-809-11	METAL CHIP	100 5% 1/16W
Q251	8-729-021-88	TRANSISTOR	2SA1587-BL (TE85L)	R019	1-216-817-11	METAL CHIP	470 5% 1/16W
Q280	8-729-027-23	TRANSISTOR	DTA114EKA-T146				
Q281	8-729-021-88	TRANSISTOR	2SA1587-BL (TE85L)	R020	1-249-382-11	CARBON	1.2 5% 1/6W F
Q291	8-729-120-28	TRANSISTOR	2SC3052F-T2-LF	R021	1-249-382-11	CARBON	1.2 5% 1/6W F
Q292	8-729-049-31	TRANSISTOR	2SB710A-RTX	R022	1-216-833-11	METAL CHIP	10K 5% 1/16W
Q293	6-550-305-01	TRANSISTOR	2SA1296GR	R023	1-216-809-11	METAL CHIP	100 5% 1/16W
Q305	6-550-290-01	TRANSISTOR	2SJ460	R024	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
							(EXCEPT E,SP,TW,AUS)
Q306	6-550-290-01	TRANSISTOR	2SJ460	R024	1-216-827-11	METAL CHIP	3.3K 5% 1/16W
Q307	8-729-048-99	TRANSISTOR	2SK2541-T				(E,SP,TW,AUS)
Q308	8-729-048-99	TRANSISTOR	2SK2541-T	R026	1-216-833-11	METAL CHIP	10K 5% 1/16W
Q309	8-729-048-99	TRANSISTOR	2SK2541-T	R027	1-216-864-11	METAL CHIP	0 5% 1/16W
Q451	8-729-011-92	TRANSISTOR	2SC2001TP-K1K2	R028	1-216-033-00	METAL CHIP	220 5% 1/10W
				R029	1-216-841-11	METAL CHIP	47K 5% 1/16W
Q452	8-729-120-28	TRANSISTOR	2SC3052F-T2-LF	R030	1-216-837-11	METAL CHIP	22K 5% 1/16W
Q453	8-729-044-60	TRANSISTOR	2SC3383-T-AA	R031	1-216-809-11	METAL CHIP	100 5% 1/16W
Q454	8-729-044-60	TRANSISTOR	2SC3383-T-AA	R032	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
Q601	8-729-027-23	TRANSISTOR	DTA114EKA-T146	R033	1-216-817-11	METAL CHIP	470 5% 1/16W
Q602	8-729-045-62	TRANSISTOR	2SK2158-T2B	R034	1-216-849-11	METAL CHIP	220K 5% 1/16W
Q603	8-729-045-62	TRANSISTOR	2SK2158-T2B	R035	1-216-841-11	METAL CHIP	47K 5% 1/16W
Q604	8-729-045-62	TRANSISTOR	2SK2158-T2B	R036	1-216-841-11	METAL CHIP	47K 5% 1/16W
Q605	8-729-045-62	TRANSISTOR	2SK2158-T2B	R038	1-249-409-11	CARBON	220 5% 1/4W F
Q606	8-729-900-53	TRANSISTOR	DTC114EKA-T146				(US,CND)
Q651	8-729-045-62	TRANSISTOR	2SK2158-T2B	R038	1-247-807-31	CARBON	100 5% 1/4W
							(EXCEPT US,CND)
Q652	8-729-045-62	TRANSISTOR	2SK2158-T2B	R042	1-249-409-11	CARBON	220 5% 1/4W F
Q653	8-729-120-28	TRANSISTOR	2SC3052F-T2-LF				
Q680	8-729-045-62	TRANSISTOR	2SK2158-T2B	R043	1-249-409-11	CARBON	220 5% 1/4W F
Q681	8-729-045-62	TRANSISTOR	2SK2158-T2B	R044	1-249-409-11	CARBON	220 5% 1/4W F
Q682	8-729-045-62	TRANSISTOR	2SK2158-T2B	R045	1-247-807-31	CARBON	100 5% 1/4W
Q683	1-801-806-11	TRANSISTOR	DTC144EKA-T146	R046	1-247-807-31	CARBON	100 5% 1/4W
Q684	1-801-806-11	TRANSISTOR	DTC144EKA-T146	R047	1-249-409-11	CARBON	220 5% 1/4W F
Q685	1-801-806-11	TRANSISTOR	DTC144EKA-T146				
Q890	8-729-045-00	TRANSISTOR	KTA1266GR-AT	R048	1-249-409-11	CARBON	220 5% 1/4W F
Q891	8-729-120-28	TRANSISTOR	2SC3052F-T2-LF	R049	1-249-409-11	CARBON	220 5% 1/4W F
Q892	8-729-120-28	TRANSISTOR	2SC3052F-T2-LF	R051	1-216-821-11	METAL CHIP	1K 5% 1/16W
Q901	8-729-120-28	TRANSISTOR	2SC3052F-T2-LF	R052	1-216-821-11	METAL CHIP	1K 5% 1/16W
Q902	8-729-027-46	TRANSISTOR	DTC114YKA-T146	R055	1-249-421-11	CARBON	2.2K 5% 1/4W F
Q903	8-729-027-46	TRANSISTOR	DTC114YKA-T146				
Q904	8-729-195-23	TRANSISTOR	2SA952TP-K1K2	R056	1-216-807-11	METAL CHIP	68 5% 1/16W
Q905	8-729-195-23	TRANSISTOR	2SA952TP-K1K2	R057	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
				R058	1-216-833-11	METAL CHIP	10K 5% 1/16W
				R059	1-216-813-11	METAL CHIP	220 5% 1/16W
				R060	1-216-817-11	METAL CHIP	470 5% 1/16W
				R061	1-216-833-11	METAL CHIP	10K 5% 1/16W
				R062	1-216-838-11	METAL CHIP	27K 5% 1/16W
				R063	1-216-838-11	METAL CHIP	27K 5% 1/16W
				R064	1-216-830-11	METAL CHIP	5.6K 5% 1/16W
				R065	1-216-834-11	METAL CHIP	12K 5% 1/16W
				R066	1-216-845-11	METAL CHIP	100K 5% 1/16W
				R067	1-216-833-11	METAL CHIP	10K 5% 1/16W
				R068	1-249-421-11	CARBON	2.2K 5% 1/4W F
				R069	1-249-421-11	CARBON	2.2K 5% 1/4W F
				R070	1-218-867-11	METAL CHIP	6.8K 5% 1/10W
				R071	1-216-089-91	RES-CHIP	47K 5% 1/10W
				R072	1-216-089-91	RES-CHIP	47K 5% 1/10W
				R073	1-216-835-11	METAL CHIP	15K 5% 1/16W
				R074	1-216-833-11	METAL CHIP	10K 5% 1/16W
				R075	1-216-835-11	METAL CHIP	15K 5% 1/16W
				R076	1-216-830-11	METAL CHIP	5.6K 5% 1/16W

< RESISTOR >

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
R078	1-216-840-11	METAL CHIP	39K 5% 1/16W	R171	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R079	1-216-832-11	METAL CHIP	8.2K 5% 1/16W	R172	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R081	1-247-807-31	CARBON	100 5% 1/4W	R173	1-216-824-11	METAL CHIP	1.8K 5% 1/16W
R085	1-216-833-11	METAL CHIP	10K 5% 1/16W	R174	1-216-824-11	METAL CHIP	1.8K 5% 1/16W
R086	1-249-421-11	CARBON	2.2K 5% 1/4W F	R175	1-216-815-11	METAL CHIP	330 5% 1/16W
R093	1-216-244-00	RES-CHIP	82K 5% 1/8W	R176	1-216-815-11	METAL CHIP	330 5% 1/16W
R094	1-216-840-11	METAL CHIP	39K 5% 1/16W	R177	1-216-809-11	METAL CHIP	100 5% 1/16W
R095	1-216-832-11	METAL CHIP	8.2K 5% 1/16W	R178	1-216-809-11	METAL CHIP	100 5% 1/16W
R096	1-216-844-11	METAL CHIP	82K 5% 1/16W	R179	1-216-821-11	METAL CHIP	1K 5% 1/16W
R103	1-216-834-11	METAL CHIP	12K 5% 1/16W	R180	1-216-821-11	METAL CHIP	1K 5% 1/16W
R104	1-216-834-11	METAL CHIP	12K 5% 1/16W	R181	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R105	1-216-838-11	METAL CHIP	27K 5% 1/16W	R182	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R106	1-216-838-11	METAL CHIP	27K 5% 1/16W	R183	1-216-843-11	METAL CHIP	68K 5% 1/16W
R107	1-216-809-11	METAL CHIP	100 5% 1/16W	R185	1-216-857-11	METAL CHIP	1M 5% 1/16W
R108	1-216-809-11	METAL CHIP	100 5% 1/16W	R203	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
R111	1-216-820-11	METAL CHIP	820 5% 1/16W	R204	1-216-834-11	METAL CHIP	12K 5% 1/16W
R112	1-216-820-11	METAL CHIP	820 5% 1/16W				(US,CND)
R113	1-216-838-11	METAL CHIP	27K 5% 1/16W	R204	1-216-224-91	RES-CHIP	12K 5% 1/8W
R114	1-249-434-11	CARBON	27K 5% 1/4W				(EXCEPT US,CND)
R115	1-216-206-00	RES-CHIP	2.2K 5% 1/8W	R205	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R116	1-216-206-00	RES-CHIP	2.2K 5% 1/8W	R206	1-216-841-11	METAL CHIP	47K 5% 1/16W
R117	1-216-833-11	METAL CHIP	10K 5% 1/16W	R207	1-216-833-11	METAL CHIP	10K 5% 1/16W
R118	1-216-833-11	METAL CHIP	10K 5% 1/16W	R208	1-216-815-11	METAL CHIP	330 5% 1/16W
R119	1-216-809-11	METAL CHIP	100 5% 1/16W	R209	1-216-176-11	RES-CHIP	120 5% 1/8W
R120	1-216-809-11	METAL CHIP	100 5% 1/16W	R210	1-216-826-11	METAL CHIP	2.7K 5% 1/16W
R121	1-216-809-11	METAL CHIP	100 5% 1/16W	R211	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R122	1-216-809-11	METAL CHIP	100 5% 1/16W	R212	1-216-833-11	METAL CHIP	10K 5% 1/16W
R123	1-216-206-00	RES-CHIP	2.2K 5% 1/8W	R213	1-216-823-11	METAL CHIP	1.5K 5% 1/16W
R124	1-216-206-00	RES-CHIP	2.2K 5% 1/8W	R214	1-216-839-11	METAL CHIP	33K 5% 1/16W
R125	1-216-198-91	RES-CHIP	1K 5% 1/8W	R215	1-216-830-11	METAL CHIP	5.6K 5% 1/16W
R126	1-216-198-91	RES-CHIP	1K 5% 1/8W	R216	1-216-830-11	METAL CHIP	5.6K 5% 1/16W
R127	1-216-804-11	METAL CHIP	39 5% 1/16W	R217	1-216-833-11	METAL CHIP	10K 5% 1/16W
R128	1-216-804-11	METAL CHIP	39 5% 1/16W				(US,CND,AEP,UK)
R129	1-245-545-11	RES, METAL FILM 0.22		R217	1-216-835-11	METAL CHIP	15K 5% 1/16W
							(EXCEPT US,CND,AEP,UK)
R130	1-245-545-11	RES, METAL FILM 0.22		R218	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
R131	1-245-545-11	RES, METAL FILM 0.22		R219	1-216-833-11	METAL CHIP	10K 5% 1/16W
R132	1-245-545-11	RES, METAL FILM 0.22					(US,CND)
R133	1-216-825-11	METAL CHIP	2.2K 5% 1/16W	R219	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
R134	1-216-825-11	METAL CHIP	2.2K 5% 1/16W				(EXCEPT US,CND)
R135	1-216-824-11	METAL CHIP	1.8K 5% 1/16W	R220	1-247-843-11	CARBON	3.3K 5% 1/4W
R136	1-216-824-11	METAL CHIP	1.8K 5% 1/16W	R222	1-216-035-00	METAL CHIP	270 5% 1/10W
R137	1-216-809-11	METAL CHIP	100 5% 1/16W	R223	1-216-829-11	METAL CHIP	4.7K 5% 1/16W
R138	1-216-809-11	METAL CHIP	100 5% 1/16W	R224	1-216-825-11	METAL CHIP	2.2K 5% 1/16W
R139	1-216-864-11	METAL CHIP	0 5% 1/16W	R226	1-216-833-11	METAL CHIP	10K 5% 1/16W
R140	1-216-864-11	METAL CHIP	0 5% 1/16W	R228	1-216-827-11	METAL CHIP	3.3K 5% 1/16W
R141	1-216-049-11	RES-CHIP	1K 5% 1/10W	R229	1-216-832-11	METAL CHIP	8.2K 5% 1/16W
R142	1-216-049-11	RES-CHIP	1K 5% 1/10W	R230	1-218-867-11	METAL CHIP	6.8K 5% 1/10W
R143	1-216-833-11	METAL CHIP	10K 5% 1/16W				(EXCEPT AEP,UK)
R144	1-216-833-11	METAL CHIP	10K 5% 1/16W	R230	1-216-830-11	METAL CHIP	5.6K 5% 1/16W
							(AEP,UK)
R150	1-216-845-11	METAL CHIP	100K 5% 1/16W	R231	1-216-827-11	METAL CHIP	3.3K 5% 1/16W
R151	1-216-841-11	METAL CHIP	47K 5% 1/16W	R232	1-216-827-11	METAL CHIP	3.3K 5% 1/16W
R152	1-216-841-11	METAL CHIP	47K 5% 1/16W	R233	1-216-833-11	METAL CHIP	10K 5% 1/16W
R155	1-216-832-11	METAL CHIP	8.2K 5% 1/16W	R234	1-216-833-11	METAL CHIP	10K 5% 1/16W
R156	1-216-832-11	METAL CHIP	8.2K 5% 1/16W	R235	1-216-827-11	METAL CHIP	3.3K 5% 1/16W
R157	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	R236	1-216-827-11	METAL CHIP	3.3K 5% 1/16W
R158	1-216-829-11	METAL CHIP	4.7K 5% 1/16W	R237	1-216-833-11	METAL CHIP	10K 5% 1/16W
R165	1-216-823-11	METAL CHIP	1.5K 5% 1/16W	R238	1-216-833-11	METAL CHIP	10K 5% 1/16W
R166	1-216-823-11	METAL CHIP	1.5K 5% 1/16W				

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Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R241	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	R607	1-216-836-11	METAL CHIP	18K	5%	1/16W
R242	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	R608	1-216-836-11	METAL CHIP	18K	5%	1/16W
R243	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	R609	1-216-834-11	METAL CHIP	12K	5%	1/16W
R244	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	R610	1-216-834-11	METAL CHIP	12K	5%	1/16W
R245	1-218-867-11	METAL CHIP	6.8K	5%	1/10W						
						R611	1-216-833-11	METAL CHIP	10K	5%	1/16W
R246	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R612	1-216-833-11	METAL CHIP	10K	5%	1/16W
R247	1-216-833-11	METAL CHIP	10K	5%	1/16W	R613	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
					(US,CND)	R614	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R247	1-249-429-11	CARBON	10K	5%	1/4W	R615	1-216-839-11	METAL CHIP	33K	5%	1/16W
					(AEP,UK,E)						
R248	1-216-214-00	RES-CHIP	4.7K	5%	1/8W	R616	1-216-839-11	METAL CHIP	33K	5%	1/16W
R249	1-216-214-00	RES-CHIP	4.7K	5%	1/8W	R617	1-216-836-11	METAL CHIP	18K	5%	1/16W
						R618	1-216-836-11	METAL CHIP	18K	5%	1/16W
R250	1-249-393-11	CARBON	10	5%	1/4W F	R619	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R251	1-249-393-11	CARBON	10	5%	1/4W F	R620	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R252	1-249-393-11	CARBON	10	5%	1/4W F						
R253	1-249-393-11	CARBON	10	5%	1/4W F	R621	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R255	1-216-837-11	METAL CHIP	22K	5%	1/16W	R622	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
						R623	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R256	1-216-837-11	METAL CHIP	22K	5%	1/16W	R624	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R257	1-216-837-11	METAL CHIP	22K	5%	1/16W	R627	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R270	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R271	1-216-833-11	METAL CHIP	10K	5%	1/16W	R628	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R272	1-216-841-11	METAL CHIP	47K	5%	1/16W	R629	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R630	1-216-833-11	METAL CHIP	10K	5%	1/16W
R273	1-216-833-11	METAL CHIP	10K	5%	1/16W	R631	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R274	1-216-222-00	RES-CHIP	10K	5%	1/8W	R632	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R275	1-216-222-00	RES-CHIP	10K	5%	1/8W						
R280	1-216-841-11	METAL CHIP	47K	5%	1/16W	R633	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R281	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R634	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
						R635	1-216-821-11	METAL CHIP	1K	5%	1/16W
R282	1-216-833-11	METAL CHIP	10K	5%	1/16W	R636	1-216-821-11	METAL CHIP	1K	5%	1/16W
R283	1-216-849-11	METAL CHIP	220K	5%	1/16W	R637	1-216-821-11	METAL CHIP	1K	5%	1/16W
R284	1-216-849-11	METAL CHIP	220K	5%	1/16W						
R285	1-216-837-11	METAL CHIP	22K	5%	1/16W	R638	1-216-821-11	METAL CHIP	1K	5%	1/16W
R286	1-216-841-11	METAL CHIP	47K	5%	1/16W	R639	1-216-836-11	METAL CHIP	18K	5%	1/16W
						R640	1-216-836-11	METAL CHIP	18K	5%	1/16W
R287	1-216-841-11	METAL CHIP	47K	5%	1/16W	R641	1-216-837-11	METAL CHIP	22K	5%	1/16W
R291	1-216-833-11	METAL CHIP	10K	5%	1/16W	R642	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R292	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R294	1-216-845-11	METAL CHIP	100K	5%	1/16W	R643	1-216-845-11	METAL CHIP	100K	5%	1/16W
R295	1-216-857-11	METAL CHIP	1M	5%	1/16W	R644	1-216-845-11	METAL CHIP	100K	5%	1/16W
						R645	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R296	1-216-813-11	METAL CHIP	220	5%	1/16W	R646	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R297	1-216-833-11	METAL CHIP	10K	5%	1/16W	R647	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R298	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R299	1-216-138-00	METAL CHIP	3.3	5%	1/8W	R648	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R303	1-216-844-11	METAL CHIP	82K	5%	1/16W	R649	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
						R650	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R304	1-216-844-11	METAL CHIP	82K	5%	1/16W	R651	1-216-809-11	METAL CHIP	100	5%	1/16W
R305	1-216-849-11	METAL CHIP	220K	5%	1/16W	R652	1-247-807-31	CARBON	100	5%	1/4W
R451	1-216-825-11	METAL CHIP	2.2K	5%	1/16W						
R453	1-249-417-11	CARBON	1K	5%	1/4W F	R656	1-216-852-11	METAL CHIP	390K	5%	1/16W
R454	1-249-392-11	CARBON	8.2	5%	1/4W F	R657	1-216-850-11	METAL CHIP	270K	5%	1/16W
						R658	1-216-850-11	METAL CHIP	270K	5%	1/16W
R455	1-216-836-11	METAL CHIP	18K	5%	1/16W	R659	1-216-852-11	METAL CHIP	390K	5%	1/16W
R456	1-216-836-11	METAL CHIP	18K	5%	1/16W	R660	1-216-850-11	METAL CHIP	270K	5%	1/16W
R457	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R458	1-216-842-11	METAL CHIP	56K	5%	1/16W	R661	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R459	1-216-829-11	METAL CHIP	4.7K	5%	1/16W						(EXCEPT KR,TH)
						R662	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
											(EXCEPT KR,TH)
R601	1-216-806-11	METAL CHIP	56	5%	1/10W	R663	1-216-857-11	METAL CHIP	1M	5%	1/16W
R602	1-216-806-11	METAL CHIP	56	5%	1/10W	R664	1-216-857-11	METAL CHIP	1M	5%	1/16W
R603	1-216-852-11	METAL CHIP	390K	5%	1/16W	R665	1-216-821-11	METAL CHIP	1K	5%	1/16W
R604	1-216-852-11	METAL CHIP	390K	5%	1/16W						
R605	1-216-822-11	METAL CHIP	1.2K	5%	1/16W	R666	1-216-821-11	METAL CHIP	1K	5%	1/16W
						R667	1-216-857-11	METAL CHIP	1M	5%	1/16W
R606	1-216-822-11	METAL CHIP	1.2K	5%	1/16W						

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MAIN

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
R668	1-216-857-11	METAL CHIP	1M	5%	1/16W	R736	1-216-821-11	METAL CHIP	1K	5%	1/16W
R669	1-216-821-11	METAL CHIP	1K	5%	1/16W	R737	1-216-809-11	METAL CHIP	100	5%	1/16W
R670	1-216-821-11	METAL CHIP	1K	5%	1/16W	R738	1-216-821-11	METAL CHIP	1K	5%	1/16W
						R739	1-216-821-11	METAL CHIP	1K	5%	1/16W
R671	1-249-429-11	CARBON	10K	5%	1/4W	R740	1-216-821-11	METAL CHIP	1K	5%	1/16W
R673	1-216-838-11	METAL CHIP	27K	5%	1/16W						
R674	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	R741	1-216-821-11	METAL CHIP	1K	5%	1/16W
R675	1-216-842-11	METAL CHIP	56K	5%	1/16W	R742	1-216-821-11	METAL CHIP	1K	5%	1/16W
R676	1-249-407-11	CARBON	150	5%	1/4W F	R743	1-216-821-11	METAL CHIP	1K	5%	1/16W
						R744	1-216-821-11	METAL CHIP	1K	5%	1/16W
R677	1-249-407-11	CARBON	150	5%	1/4W F	R745	1-216-821-11	METAL CHIP	1K	5%	1/16W
R678	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R679	1-216-821-11	METAL CHIP	1K	5%	1/16W	R746	1-216-821-11	METAL CHIP	1K	5%	1/16W
R681	1-216-841-11	METAL CHIP	47K	5%	1/16W	R747	1-216-821-11	METAL CHIP	1K	5%	1/16W
R682	1-216-845-11	METAL CHIP	100K	5%	1/16W	R748	1-216-821-11	METAL CHIP	1K	5%	1/16W
						R749	1-216-821-11	METAL CHIP	1K	5%	1/16W
R683	1-216-841-11	METAL CHIP	47K	5%	1/16W	R750	1-216-821-11	METAL CHIP	1K	5%	1/16W
R684	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R685	1-216-841-11	METAL CHIP	47K	5%	1/16W	R751	1-216-821-11	METAL CHIP	1K	5%	1/16W
R686	1-216-845-11	METAL CHIP	100K	5%	1/16W	R752	1-216-821-11	METAL CHIP	1K	5%	1/16W
R687	1-216-864-11	METAL CHIP	0	5%	1/16W	R753	1-216-821-11	METAL CHIP	1K	5%	1/16W
						R755	1-216-821-11	METAL CHIP	1K	5%	1/16W
R688	1-218-867-11	METAL CHIP	6.8K	5%	1/10W	R756	1-216-821-11	METAL CHIP	1K	5%	1/16W
R689	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R690	1-216-835-11	METAL CHIP	15K	5%	1/16W	R757	1-216-821-11	METAL CHIP	1K	5%	1/16W
R695	1-216-821-11	METAL CHIP	1K	5%	1/16W	R758	1-216-821-11	METAL CHIP	1K	5%	1/16W
R696	1-216-821-11	METAL CHIP	1K	5%	1/16W	R761	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R763	1-216-841-11	METAL CHIP	47K	5%	1/16W
R701	1-216-849-11	METAL CHIP	220K	5%	1/16W	R862	1-216-809-11	METAL CHIP	100	5%	1/16W (AEP,UK)
R702	1-216-841-11	METAL CHIP	47K	5%	1/16W						
R703	1-216-821-11	METAL CHIP	1K	5%	1/16W	R863	1-216-864-11	METAL CHIP	0	5%	1/16W (AEP,UK)
R704	1-216-821-11	METAL CHIP	1K	5%	1/16W						
R705	1-216-821-11	METAL CHIP	1K	5%	1/16W	R877	1-216-849-11	METAL CHIP	220K	5%	1/16W (AEP,UK)
R706	1-216-821-11	METAL CHIP	1K	5%	1/16W	R878	1-216-845-11	METAL CHIP	100K	5%	1/16W (EXCEPT AEP,UK)
R707	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R708	1-216-833-11	METAL CHIP	10K	5%	1/16W	R878	1-216-857-11	METAL CHIP	1M	5%	1/16W (AEP,UK)
R709	1-216-833-11	METAL CHIP	10K	5%	1/16W						
R710	1-216-833-11	METAL CHIP	10K	5%	1/16W	R879	1-216-821-11	METAL CHIP	1K	5%	1/16W
R711	1-216-833-11	METAL CHIP	10K	5%	1/16W	R880	1-216-841-11	METAL CHIP	47K	5%	1/16W
R712	1-216-833-11	METAL CHIP	10K	5%	1/16W	R881	1-216-841-11	METAL CHIP	47K	5%	1/16W
R713	1-216-821-11	METAL CHIP	1K	5%	1/16W	R882	1-216-864-11	METAL CHIP	0	5%	1/16W
R714	1-216-821-11	METAL CHIP	1K	5%	1/16W	R883	1-216-864-11	METAL CHIP	0	5%	1/16W
R715	1-216-833-11	METAL CHIP	10K	5%	1/16W	R884	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R716	1-216-833-11	METAL CHIP	10K	5%	1/16W	R885	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R717	1-216-222-00	RES-CHIP	10K	5%	1/8W	R887	1-216-841-11	METAL CHIP	47K	5%	1/16W
R718	1-216-222-00	RES-CHIP	10K	5%	1/8W	R888	1-216-809-11	METAL CHIP	100	5%	1/16W
R719	1-216-833-11	METAL CHIP	10K	5%	1/16W	R890	1-216-841-11	METAL CHIP	47K	5%	1/16W
R720	1-216-833-11	METAL CHIP	10K	5%	1/16W	R891	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R721	1-216-833-11	METAL CHIP	10K	5%	1/16W	R892	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R722	1-216-833-11	METAL CHIP	10K	5%	1/16W	R893	1-216-833-11	METAL CHIP	10K	5%	1/16W
R723	1-249-417-11	CARBON	1K	5%	1/4W F	R894	1-216-864-11	METAL CHIP	0	5%	1/16W
R724	1-216-821-11	METAL CHIP	1K	5%	1/16W	R895	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R725	1-216-821-11	METAL CHIP	1K	5%	1/16W	R896	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R726	1-216-821-11	METAL CHIP	1K	5%	1/16W	R897	1-216-845-11	METAL CHIP	100K	5%	1/16W
R727	1-216-833-11	METAL CHIP	10K	5%	1/16W	R898	1-216-845-11	METAL CHIP	100K	5%	1/16W
R728	1-216-833-11	METAL CHIP	10K	5%	1/16W	R901	1-216-841-11	METAL CHIP	47K	5%	1/16W
R729	1-216-833-11	METAL CHIP	10K	5%	1/16W	R902	1-216-841-11	METAL CHIP	47K	5%	1/16W
R730	1-216-821-11	METAL CHIP	1K	5%	1/16W	R903	1-249-437-11	CARBON	47K	5%	1/4W
R731	1-216-821-11	METAL CHIP	1K	5%	1/16W	R904	1-216-841-11	METAL CHIP	47K	5%	1/16W
R732	1-216-821-11	METAL CHIP	1K	5%	1/16W	R905	1-249-437-11	CARBON	47K	5%	1/4W
R733	1-216-821-11	METAL CHIP	1K	5%	1/16W	R906	1-216-841-11	METAL CHIP	47K	5%	1/16W
R734	1-216-821-11	METAL CHIP	1K	5%	1/16W	R907	1-249-437-11	CARBON	47K	5%	1/4W
R735	1-216-809-11	METAL CHIP	100	5%	1/16W						

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MAIN

MODE MOTOR

PT

ROLLER MOTOR

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks							
R908	1-216-238-91	RES-CHIP	47K	5%	1/8W	R991	1-216-841-11	METAL CHIP	47K	5%	1/16W					
R909	1-249-437-11	CARBON	47K	5%	1/4W	R992	1-216-841-11	METAL CHIP	47K	5%	1/16W					
R910	1-216-809-11	METAL CHIP	100	5%	1/16W	R998	1-220-397-11	METAL CHIP	4.7M	5%	1/10W					
R911	1-216-809-11	METAL CHIP	100	5%	1/16W	R999	1-216-851-11	METAL CHIP	330K	5%	1/16W					
R912	1-216-238-91	METAL CHIP	100	5%	1/16W	R999	1-216-853-11	METAL CHIP	470K	5%	1/16W (US,CND) (AEP,UK,E)					
R913	1-216-809-11	METAL CHIP	100	5%	1/16W											
R914	1-216-809-11	METAL CHIP	100	5%	1/16W	< RELAY >										
R915	1-216-809-11	METAL CHIP	100	5%	1/16W	△ RY251	1-755-334-11	RELAY, AC POWER (EXCEPT E,SP,TW,AUS)								
R916	1-216-841-11	METAL CHIP	47K	5%	1/16W	△ RY252	1-755-796-11	RELAY, AC POWER (E,SP,AUS)								
R917	1-216-238-91	RES-CHIP	47K	5%	1/8W	< SWITCH >										
R918	1-216-841-11	METAL CHIP	47K	5%	1/16W	△ S250	1-786-408-11	SW, SL 1-2-3 SWS2301 (VOLTAGE SELECTOR)	(E)							
R919	1-216-841-11	METAL CHIP	47K	5%	1/16W											
R921	1-216-841-11	METAL CHIP	47K	5%	1/16W	< RESISTOR >										
R922	1-216-841-11	METAL CHIP	47K	5%	1/16W	SFR451	1-241-766-11	RES, ADJ, CARBON 33K								
R923	1-247-807-31	CARBON	100	5%	1/4W	SFR452	1-241-766-11	RES, ADJ, CARBON 33K								
R924	1-247-807-31	CARBON	100	5%	1/4W	< THERMISTOR >										
R925	1-247-807-31	CARBON	100	5%	1/4W	TH101	1-804-908-11	C-THMS, 55001								
R926	1-247-807-31	CARBON	100	5%	1/4W	TH102	1-804-908-11	C-THMS, 55001								
R927	1-247-807-31	CARBON	100	5%	1/4W	< CABLE HOLDER >										
R928	1-247-807-31	CARBON	100	5%	1/4W	WH250	1-784-584-11	HOLDER, CABLE (2.5mm PITCH) 7P								
R929	1-247-807-31	CARBON	100	5%	1/4W	< VIBRATOR >										
R930	1-247-807-31	CARBON	100	5%	1/4W	X901	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)								
R931	1-216-809-11	METAL CHIP	100	5%	1/16W	X902	1-795-880-11	VIBRATOR, CERAMIC (8.64MHz)								
R932	1-216-174-00	RES-CHIP	100	5%	1/8W	*****										
R933	1-216-809-11	METAL CHIP	100	5%	1/16W	1-686-724-12	MODE MOTOR BOARD	*****								
R934	1-216-174-00	RES-CHIP	100	5%	1/8W			*****								
R935	1-216-174-00	RES-CHIP	100	5%	1/8W	*****										
R936	1-216-809-11	METAL CHIP	100	5%	1/16W	1-687-717-11	PT BOARD	*****								
R937	1-216-174-00	RES-CHIP	100	5%	1/8W			< CONNECTOR >								
R938	1-216-809-11	METAL CHIP	100	5%	1/16W	△ CN254	1-564-321-00	PIN, CONNECTOR (3.96MM PITCH) 2P								
R939	1-216-809-11	METAL CHIP	100	5%	1/16W	(EXCEPT E)										
R940	1-216-843-11	METAL CHIP	68K	5%	1/16W	△ CN256	1-564-687-11	PIN, CONNECTOR (3.96MM PITCH) 3P (E)								
R941	1-247-883-00	CARBON	150K	5%	1/4W	< RESISTOR >										
R942	1-216-826-11	METAL CHIP	2.7K	5%	1/16W	△ R254	1-202-723-00	SOLID	2.2M	20%	1/2W					
R943	1-216-840-11	METAL CHIP	39K	5%	1/16W	*****										
R943	1-216-841-11	METAL CHIP	47K	5%	1/16W (SP,TW,KR,TH,AUS) (AEP,UK,E)	1-686-726-12										
						ROLLER MOTOR BOARD										
R945	1-216-841-11	METAL CHIP	47K	5%	1/16W (EXCEPT AEP,UK,E)	*****										
R945	1-216-837-11	METAL CHIP	22K	5%	1/16W (E)	*****										
R947	1-216-809-11	METAL CHIP	100	5%	1/16W	*****										
R962	1-216-833-11	METAL CHIP	10K	5%	1/16W	*****										
R977	1-216-833-11	METAL CHIP	10K	5%	1/16W	*****										
R978	1-216-841-11	METAL CHIP	47K	5%	1/16W	*****										
R979	1-216-841-11	METAL CHIP	47K	5%	1/16W	△ R254	1-202-723-00	SOLID	2.2M	20%	1/2W					
R980	1-216-829-11	METAL CHIP	4.7K	5%	1/16W	*****										
R981	1-216-817-11	METAL CHIP	470	5%	1/16W	*****										
R982	1-216-845-11	METAL CHIP	100K	5%	1/16W	*****										
R983	1-216-845-11	METAL CHIP	100K	5%	1/16W	*****										
R984	1-247-807-31	CARBON	100	5%	1/4W	*****										
R985	1-216-821-11	METAL CHIP	1K	5%	1/16W	*****										
R986	1-216-821-11	METAL CHIP	1K	5%	1/16W	*****										
R987	1-216-821-11	METAL CHIP	1K	5%	1/16W	*****										
R988	1-216-821-11	METAL CHIP	1K	5%	1/16W	*****										
R989	1-249-437-11	CARBON	47K	5%	1/4W	*****										
R990	1-216-841-11	METAL CHIP	47K	5%	1/16W	*****										

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.

SENSOR				ST ENCODER				STOCKER MOTOR				SW (1)				SW (2)				SW (3)				SW (4)			
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
	1-686-723-12	SENSOR BOARD *****				MISCELLANEOUS *****																					
		< IC >																									
IC751	8-749-017-45	SENSOR, PHONT RPR-220C1N (DISC INSERT DETECT SENSOR)																									

		ST ENCODER BOARD *****																									

	1-686-725-12	STOCKER MOTOR BOARD *****																									

	1-686-727-12	SW (1) BOARD *****																									
		< SWITCH >																									
S711	1-786-382-11	SWITCH, PUSH (1 KEY)(DISC INSERT (8/12cm))																									

	1-686-728-12	SW (2) BOARD *****																									
S713	1-786-382-11	SWITCH, PUSH (1 KEY)(DISC IN (8/12cm))																									
S714	1-786-382-11	SWITCH, PUSH (1 KEY)(DISC IN (8cm))																									

	1-686-729-12	SW (3) BOARD *****																									
S715	1-786-382-11	SWITCH, PUSH (1 KEY)(DISC OUT)																									

	1-686-730-12	SW (4) BOARD *****																									
S716	1-786-382-11	SWITCH, PUSH (1 KEY)(STOCKER IN/OUT)																									
S717	1-786-382-11	SWITCH, PUSH (1 KEY)(DISC POSITION)																									
S718	1-786-382-11	SWITCH, PUSH (1 KEY)(STOCKING)																									

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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