

CX-BK1

SERVICE MANUAL

Ver 1.1 2004.02

US Model
AEP Model
UK Model
E Model



- CX-BK1 is the amplifier, CD player, tape deck and tuner section in BMZ-K1.
- Tape deck is not loaded in US model.

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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 (Except US model)	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	CMAL1Z240A

SPECIFICATIONS

TUNER

FM tuning range 87.5 MHz to 108 MHz
FM usable sensitivity (IHF) 13.2 dBf
FM antenna terminal 75 Ω (unbalanced)
AM tuning range 530 kHz to 1710 kHz (10 kHz step)
531 kHz to 1710 kHz (9 kHz step)
AM usable sensitivity 350 μ V/m
AM antenna Loop antenna

AMPLIFIER

Power output
US model: 110 W + 110 W (40 Hz - 20 kHz, THD less than 1%, 6 Ω)
140 W + 140 W (40 Hz - 20 kHz, THD 10%, 6 Ω)
Chilean, Peruvian and Mexican models: 140 W + 140 W (1 kHz, THD less than 1%, 6 Ω)
180 W + 180 W (1 kHz, THD 10%, 6 Ω)
Total harmonic distortion 0.08 % (90 W, 1 kHz, 6 Ω)
Input LINE IN VIDEO: 1.0 Vp-p (75 Ω)
LINE IN AUDIO: 1.1 V
AUX (MD) IN: 1.1 V
MIC: 2.5mV (Chilean, Peruvian and Mexican models)
Outputs SPEAKERS: 6 Ω or more
PHONES: 32 Ω or more
AUX (MD) OUT: 500 mV
VIDEO OUT: 1.0 Vp-p (75 Ω)

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

CASSETTE DECK (Except US model)

Track format 4 tracks, 2 channels stereo
Frequency response 100 Hz - 10000 Hz ($\pm$ 3dB)
Recording system AC bias
Heads Recording/playback $\times$ 1, erase $\times$ 1

GENERAL

Power requirements
US model: 120 V, 60 Hz
Mexican model: 127 V, 60 Hz
Chilean and Peruvian models: 120 V/220 - 230 V/240 V AC (switchable), 50/60 Hz

Power consumption
US model: 120 W
Chilean and Peruvian models: 155 W
Mexican model: 160 W
Power consumption in standby mode
US model: with ECO mode on: 0.25 W
with ECO mode off: 20 W
Chilean and Mexican models: with ECO mode on: 0.25 W
with ECO mode off: 28 W
Dimensions (w/h/d) Approx. 211 $\times$ 379 $\times$ 419 mm (8 $\frac{3}{8}$ $\times$ 15 $\times$ 16 $\frac{5}{8}$ in.)
Mass
US model: Approx. 8.6 kg (19 lbs)
Chilean and Peruvian models: Approx. 9.9 kg

Specifications and external appearance are subject to change without notice.

COMPACT DISC RECEIVER

US model
COMPACT DISC DECK RECEIVER
AEP, UK, Chilean, Peruvian and Mexican models

9-877-426-02

2004B05-1

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Home Audio Company

Published by Sony Engineering Corporation



Notes on chip component replacement

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

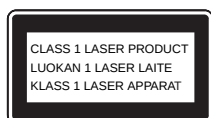
Flexible Circuit Board Repairing

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

CAUTION

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

The following caution label is located inside the unit.



This appliance is classified as a CLASS 1 LASER product.

This label is located on the rear exterior.

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.

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)

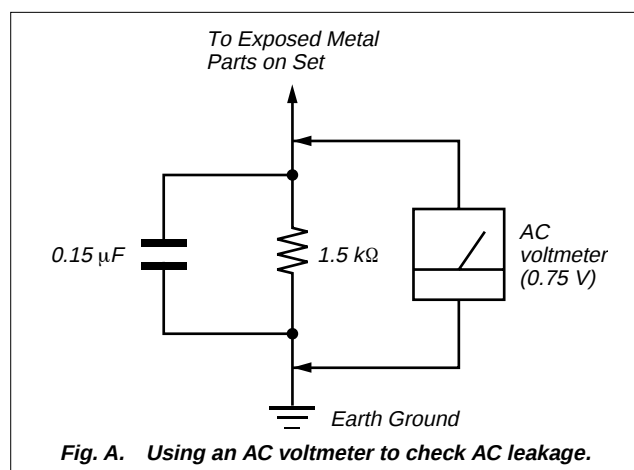


Fig. A. Using an AC voltmeter to check AC leakage.

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.

SECTION 1
SERVICING NOTES

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.

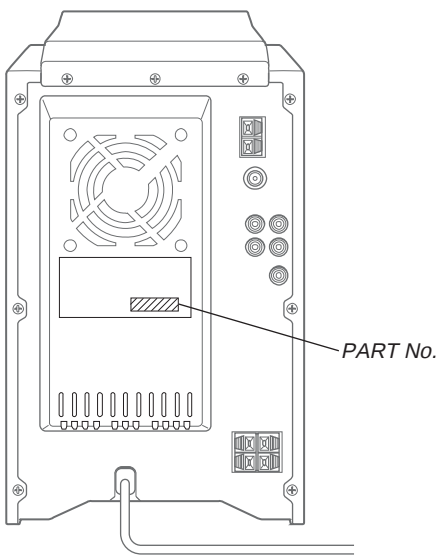
NOTES ON LASER DIODE EMISSION CHECK

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

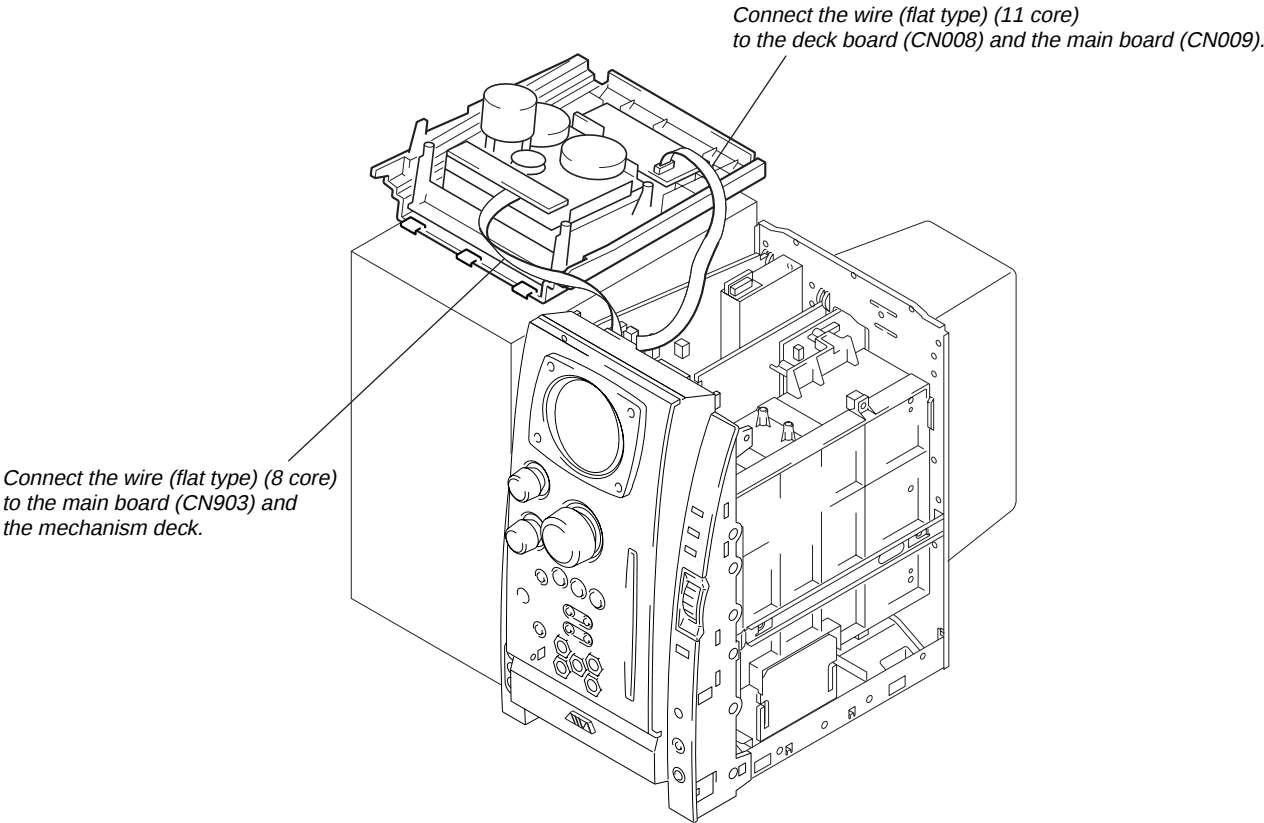
Carry out the “S curve check” in “CD section adjustment” and check that the S curve waveforms is output three times.

• MODEL IDENTIFICATION
– Rear Cover –



MODEL	PART No.
US model	4-245-039-0□
Chilean and Peruvian models	4-245-039-1□
AEP and UK models	4-245-039-2□
Mexican model	4-245-039-3□

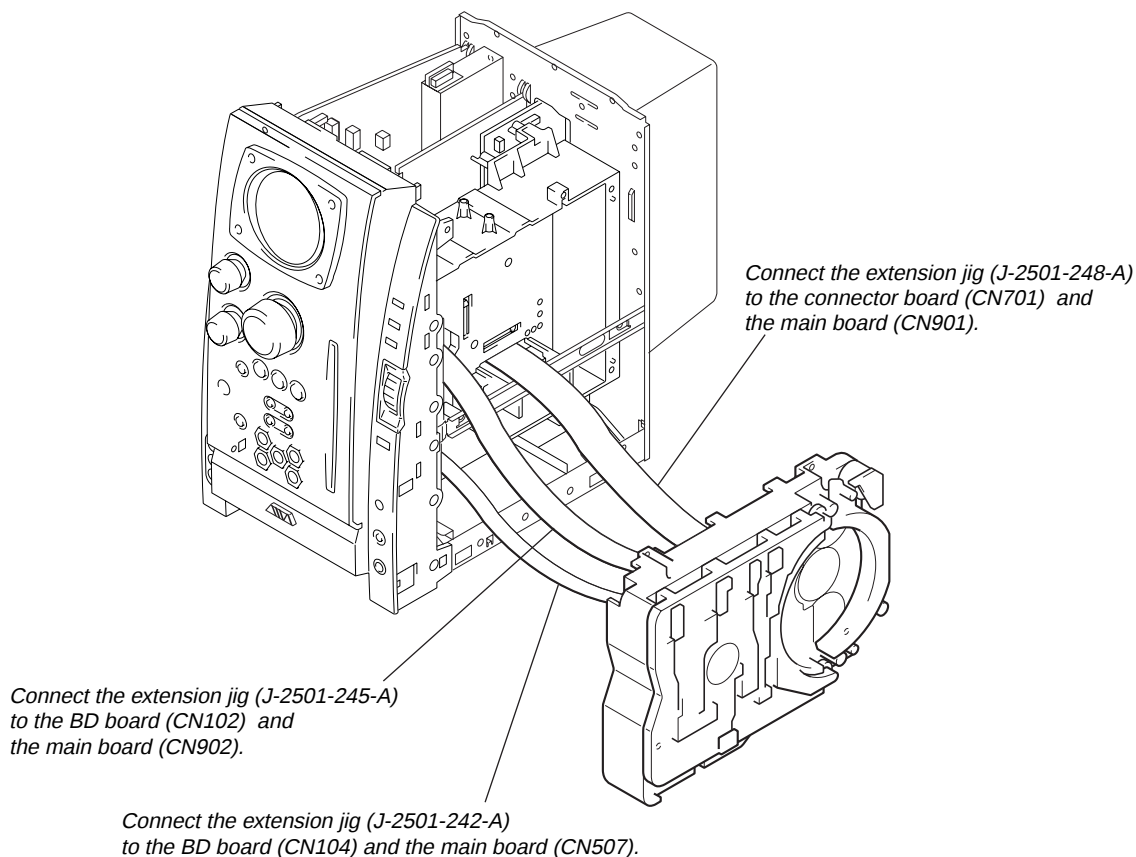
SERVICE POSITION
– Tape mechanism deck (except US) –



– CD mechanism deck –

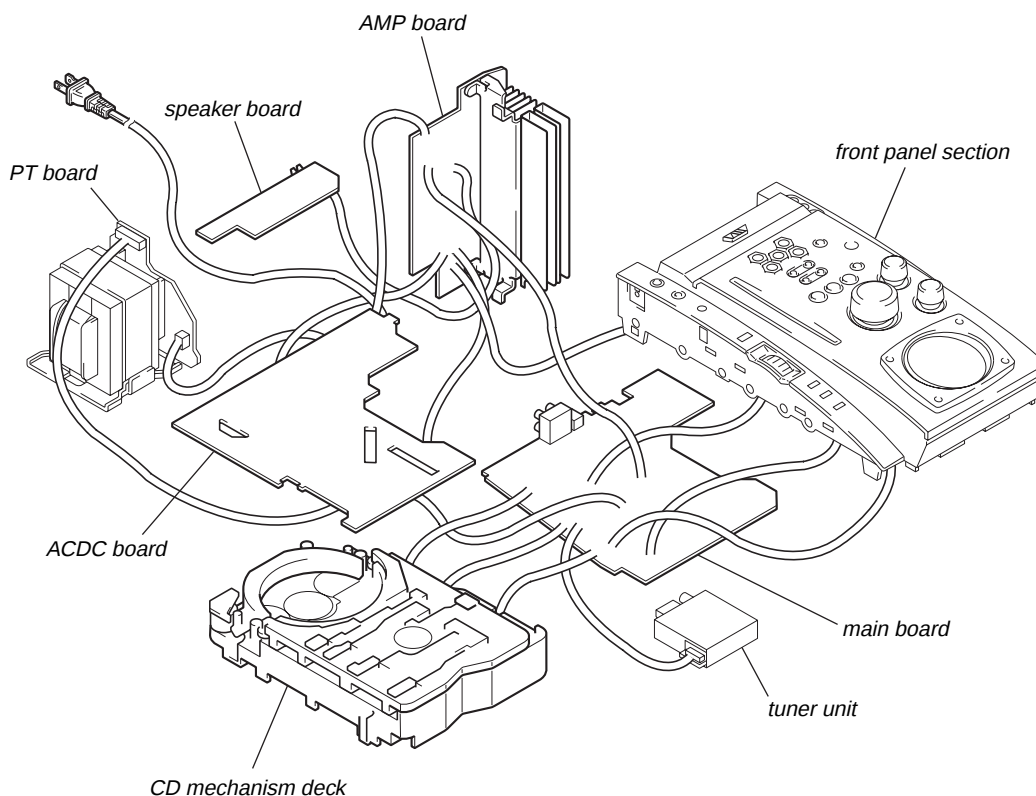
- In checking the CD mechanism deck section, prepare three extension jigs (Part No. J-2501-242-A: 1.00 mm 11core/ Part No. J-2501-245-A: 1.00 mm 23 core/Part No. J-2501-248-A: 1.00mm 27 core).

Note: The CD mechanism deck of this model is a vertical type and putting it vertically as shown in the figure is the standard position. When checking signals such as RF waveforms, operate it with the CD mechanism deck in the standard position as shown below.

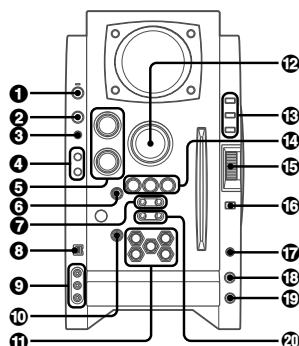


– main board, ACDC board –

- For connecting the CD mechanism deck, prepare three extension jigs. (Refer to “– CD mechanism deck –”)



• LOCATION OF CONTROLS

Main unit: front**1 POWER $\odot$ STANDBY/ON**

Switches the unit on and off (standby).

2 FUNCTION

Switches the active function among CD, USB, TAPE (Except US model), TUNER, VIDEO and AUX.

3 BAND

Select tuner function and the tuner band.

4 GEQ

Selects a sound equalization curve.

i-Bass

Produces rich and clear low frequency sound.

5 TREBLE/MIDDLE

Adjusts the treble or middle range level.

BASS

Adjusts the bass level.

6 PLAY MODE (US model)

Selects various CD play mode.

●REC (Except US model)

Starts tape recording.

Also used to enter 4-second blank spaces during recording.

7 TUNING DOWN $\lll$ /I $\lll$, UP $\ggg$ /I $\ggg$

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. (Except US model)

Tuner: manually tunes up or down within the band.

8 USB terminal

Accepts sound signals from a personal computer.

Connect your personal computer to this terminal with a USB cable so that the unit can output the sound of an audio file which is played back by the Winamp3 on your computer.

Be sure to see "CONNECTING A PERSONAL COMPUTER" for the details about the computer requirements, how to connect and so on before actually connecting your computer.

9 LINE IN (VIDEO/AUDIO) jacks

Accepts analog signals from external equipment.

Connect using an optional connecting cable with RCA phono plugs (red plug to R jack, white plug to L jack, yellow plug to VIDEO jack).

Refer also to the operating instructions of your equipment. To switch function to external input, press FUNCTION repeatedly to display "VIDEO".

10 Δ EJECT

Ejects the disc(s).

11 DISC SELECT (1-5)

Selects a disc slot.

Starts CD play for one desired disc.

12 VOLUME

Adjusts the volume.

13 TITLE

When the unit is turned off: activates or deactivated DEMO.

Changes the display in MP3-CD or USB source.

DISPLAY

Changes the display in CD playback mode.

Turns the back light on and off when the unit is turned off.

MODE

Selects various modes (sound adjustment, etc.) when used in combination with ENTER and MULTI JOG.

Switches the ECO mode on and off when the unit is turned off.

14 $\parallel$ PAUSE/SET

Pauses CD play.

■STOP/CLEAR

Stops CD play.

▶PRESET (US model)

Starts CD play.

◀▶PRESET (Except US model)

Starts CD or tape play.

15 MULTI JOG

When used in combination with ENTER and MULTI JOG, CD: selects a track.

Tuner: selects a preset station.

16 ENTER

Fixes the modes and the time (clock and timer, etc.) when used in combination with ENTER and MULTI JOG.

17 PHONES jack

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

18 MIC MIXING (Chilean and Peruvian models)

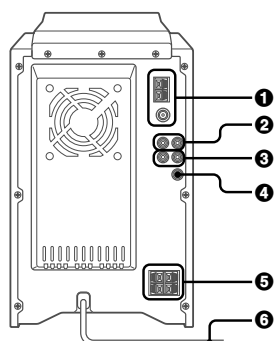
Adjusts the microphone volume.

19 MIC jack (Chilean and Peruvian models)

Connects the microphone.

20 ALBUM/PLAY LIST ∇ , $\blacktriangle$

Skips to a previous or succeeding album or play list.

Main unit: rear**1 AM LOOP jack and FM 75 Ω terminal**

Plug in the supplied AM and FM antennas.

2 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 FUNCTION repeatedly to display "AUX" (US model) or "MD" (Chilean, Peruvian and Mexican models).

3 AUX OUT jacks

Analog sound signals for all functions can be output through these jacks. Use a cable with RCA phono plugs to connect audio equipment.

Connect the red plug to the R jack, and the white plug to the L jack.

However, the signal is not output when the function is "VIDEO" or "AUX" (US model) or "MD" (Chilean, Peruvian and Mexican models).

4 VIDEO OUT

Signals from VIDEO IN jack output through this jack.

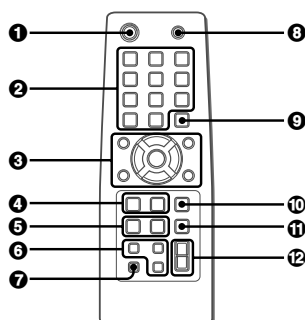
5 $\rhd$ SPEAKERS terminals

Connect the speaker cords of the supplied speakers.

6 AC power cord

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

2 1-9, 0/10, +10

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.

EDIT (Chilean, Peruvian and Mexican models)

Selects edited CD recording.

BAND

SPECTRUM

Changes the spectrum analyser display.

TUNER MODE

Switches between stereo or monaural FM reception.

KARAOKE (Chilean, Peruvian and Mexican models)

Selects a Karaoke mode.

GEQ

3 ►/◄►

Starts CD play.



◄◄/►►PRESET

Tuner: selects a preset station.

◄/►ALBUM

Selects a previous or a succeeding album.

4 PLAY MODE

REPEAT

Selects repeat CD playback mode.

5 CLOCK/TIMER SET

Enters clock and timer setting mode.

CLOCK/TIMER SELECT

Switches timer setting on and off.

6 DISPLAY

SOUND

Selects bass, treble or middle range level setting mode.

CLEAR

Clears a track of the CD programed playback and a tuner preset station.

7 SHIFT

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

8 FUNCTION

9 DISC SKIP

Changes a disc slot.

10 ENTER

11 SLEEP

Selects sleep-timer mode.

12 VOLUME +, -

Setting the clock

- 1 Press CLOCK/TIMER SET on the remote.
See below when to adjust the clock.

- 2 Press ◄◄ or ►► to set the hour, then press ENTER.

- 3 Press ◄◄ or ►► to set the minute.
Each press changes the time in 1-minute steps.

- 4 Press ENTER.
The time display stops flashing and the clock starts from 00 seconds.

- MULTI JOG is also available in place of ◄◄ or ►►.

To adjust the clock

- 1 Press CLOCK/TIMER SET on the remote.
- 2 Press ◄◄ or ►► repeatedly to display "CLOCK" and then press ENTER.
- 3 Carry out steps 2 to 4 described in "Setting the clock" to set the time.

To display the time while the power is on

Press DISPLAY repeatedly. The clock display appears in the display for 6 seconds.

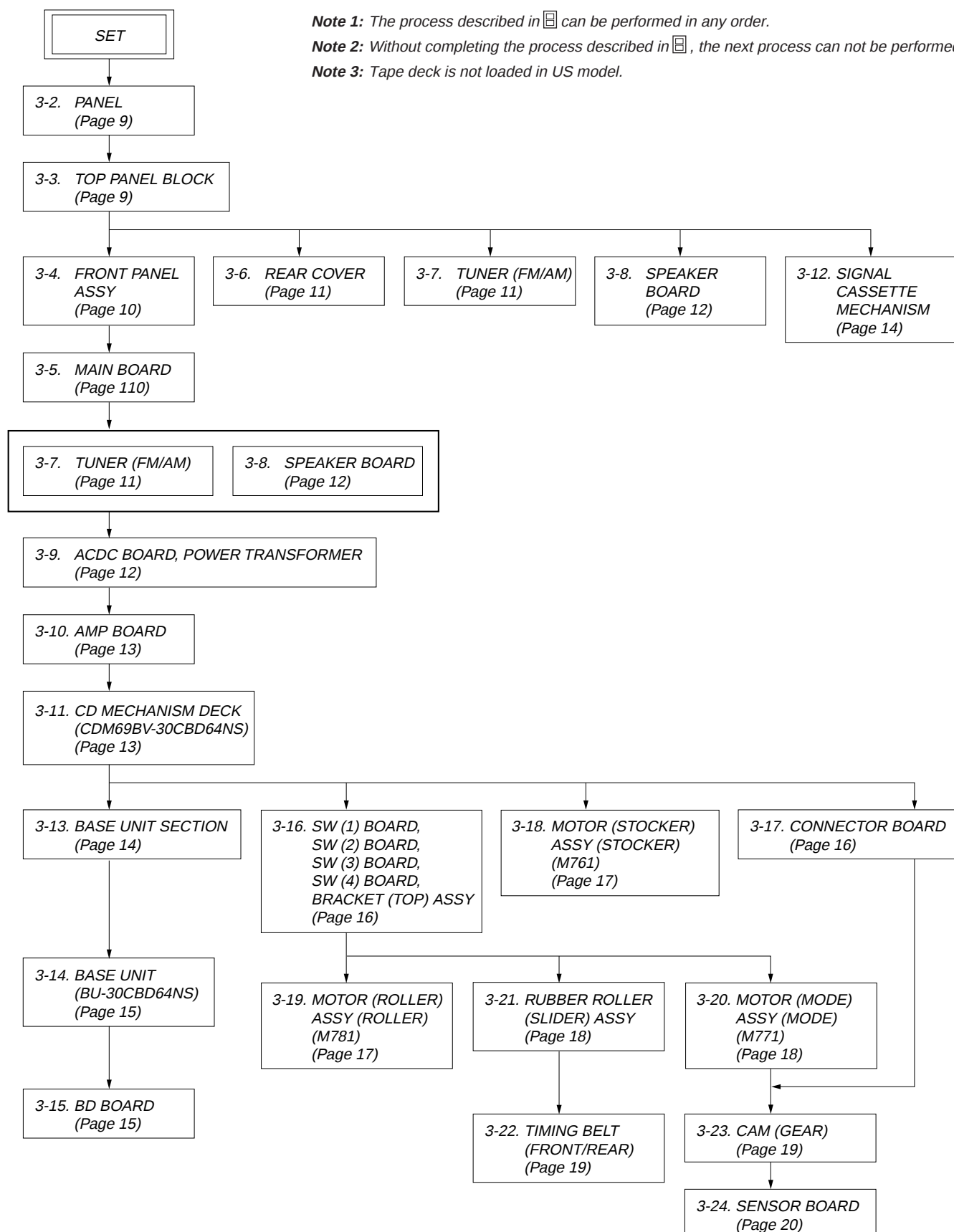
If "- :- -" appears when the unit is turned off

There has been a power interruption. Reset the clock.

SECTION 3 DISASSEMBLY

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

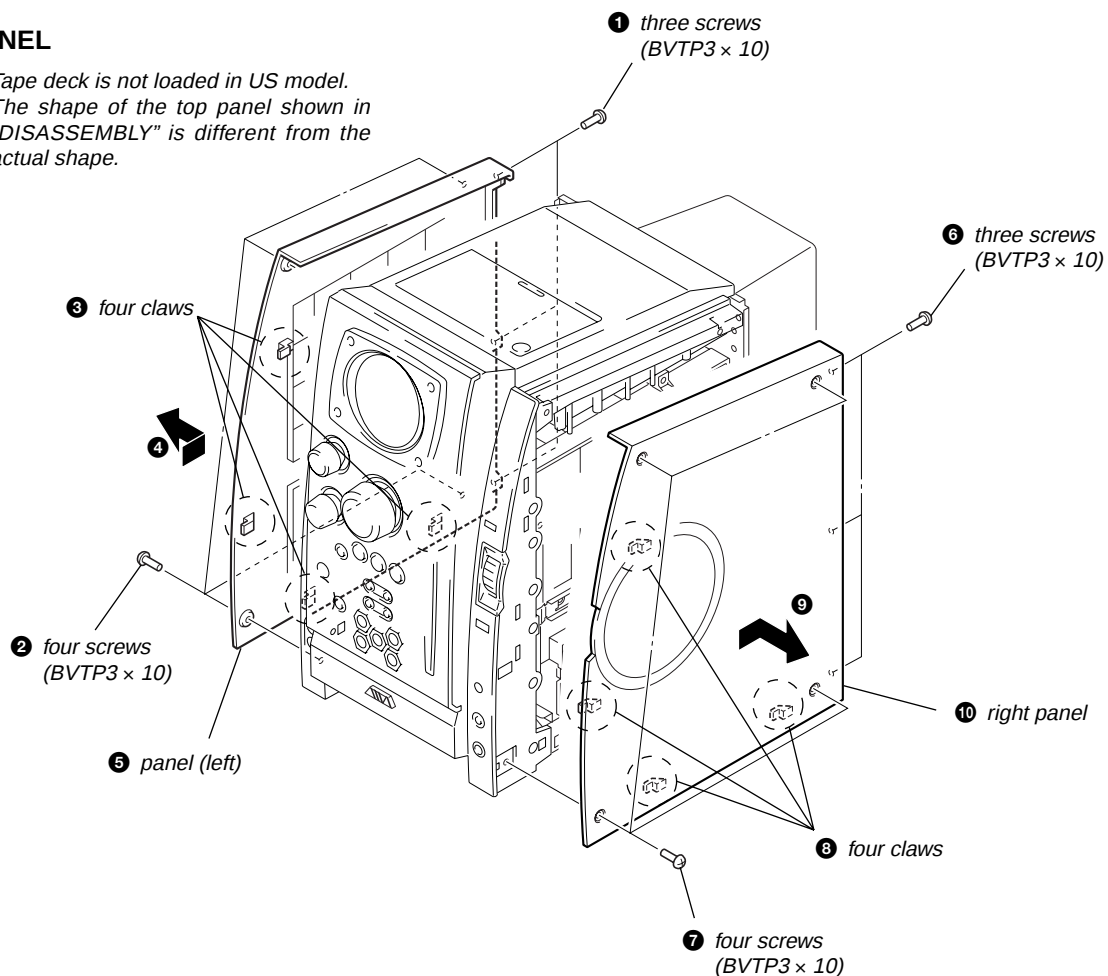
3-1. DISASSEMBLY FLOW



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

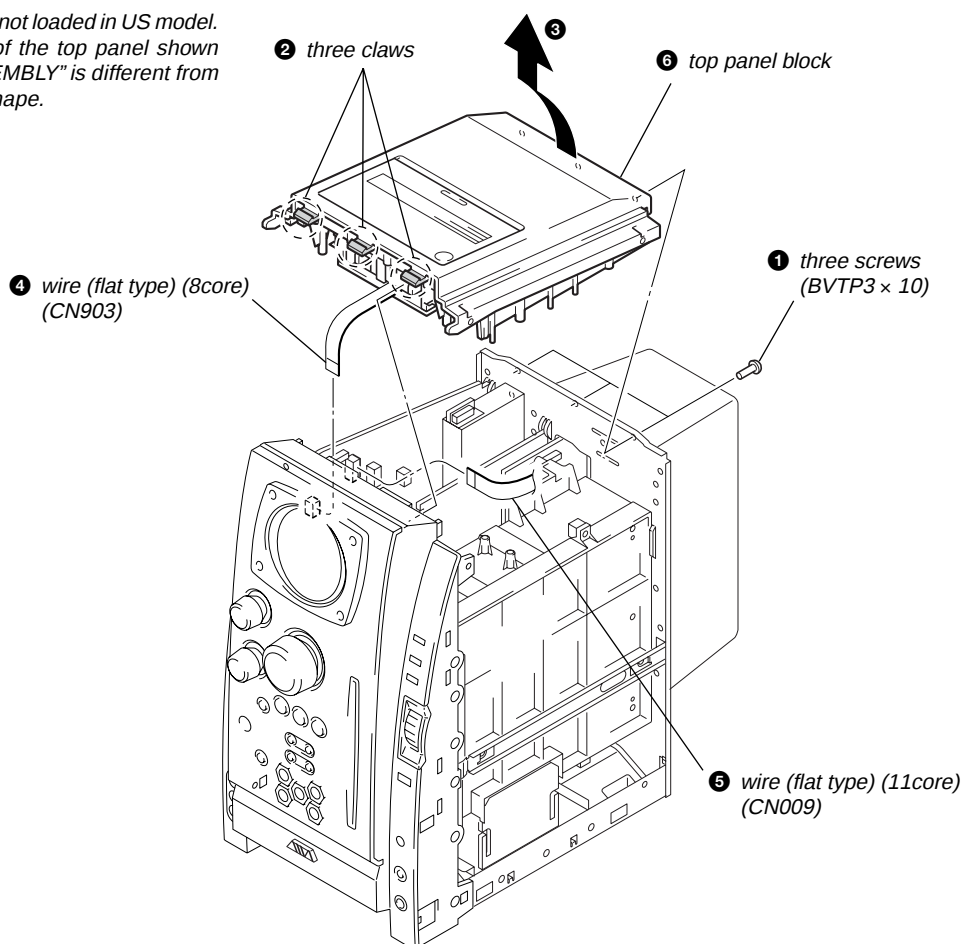
3-2. PANEL

- Tape deck is not loaded in US model.
The shape of the top panel shown in "DISASSEMBLY" is different from the actual shape.

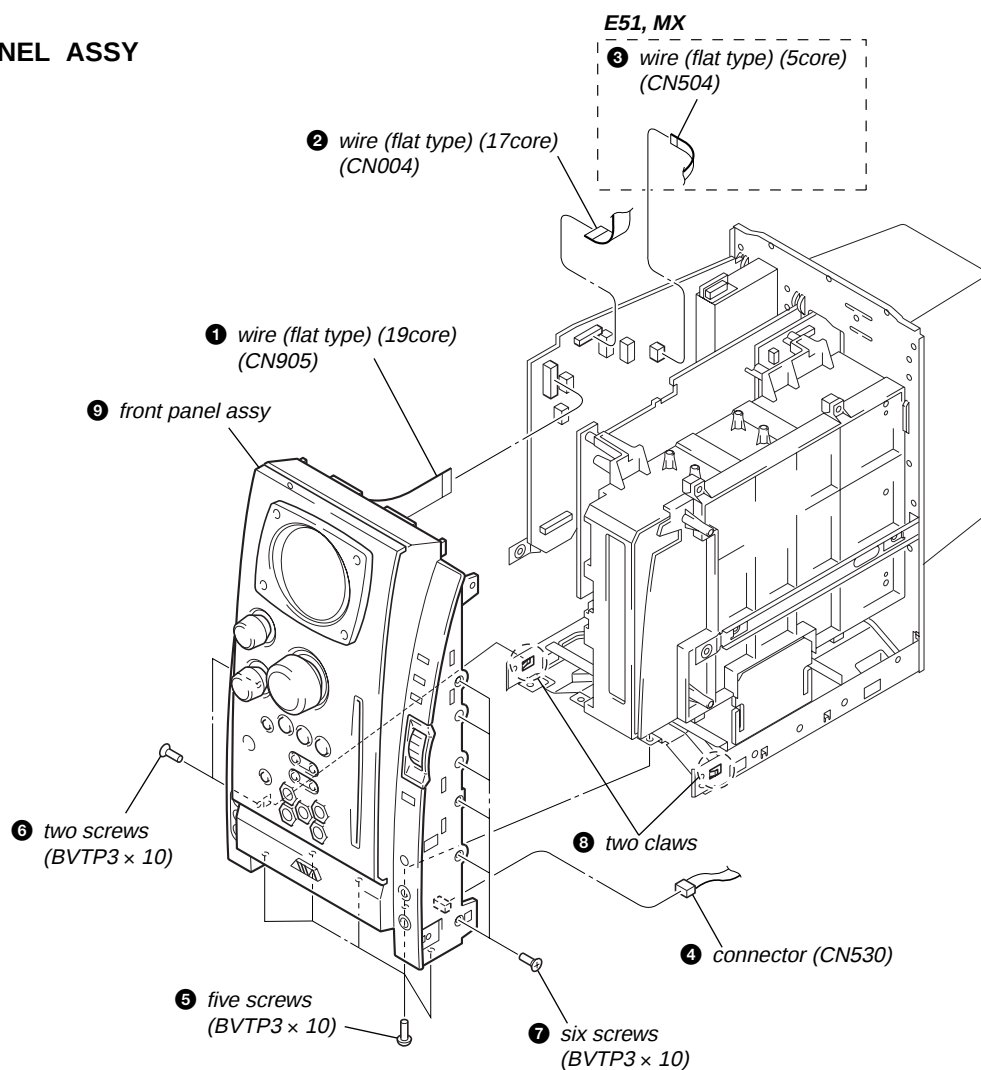


3-3. TOP PANEL BLOCK

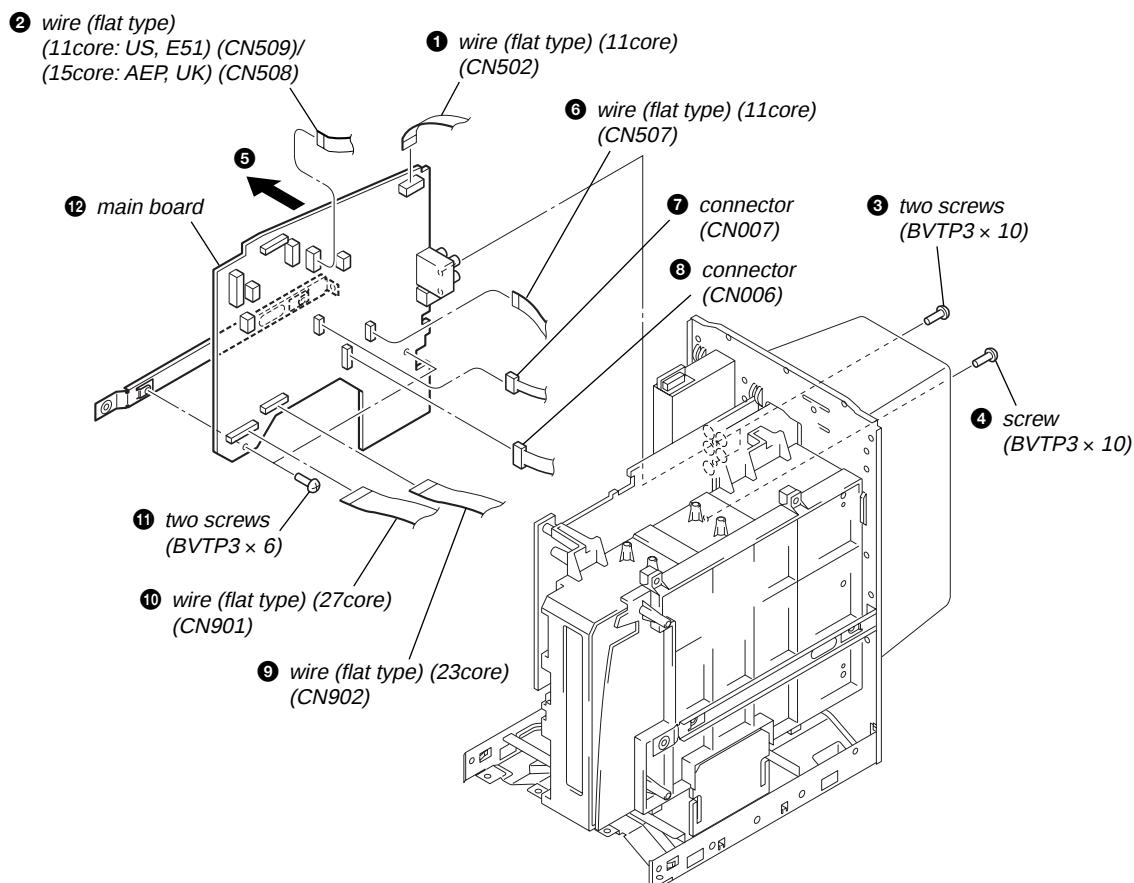
- Tape deck is not loaded in US model.
The shape of the top panel shown in "DISASSEMBLY" is different from the actual shape.



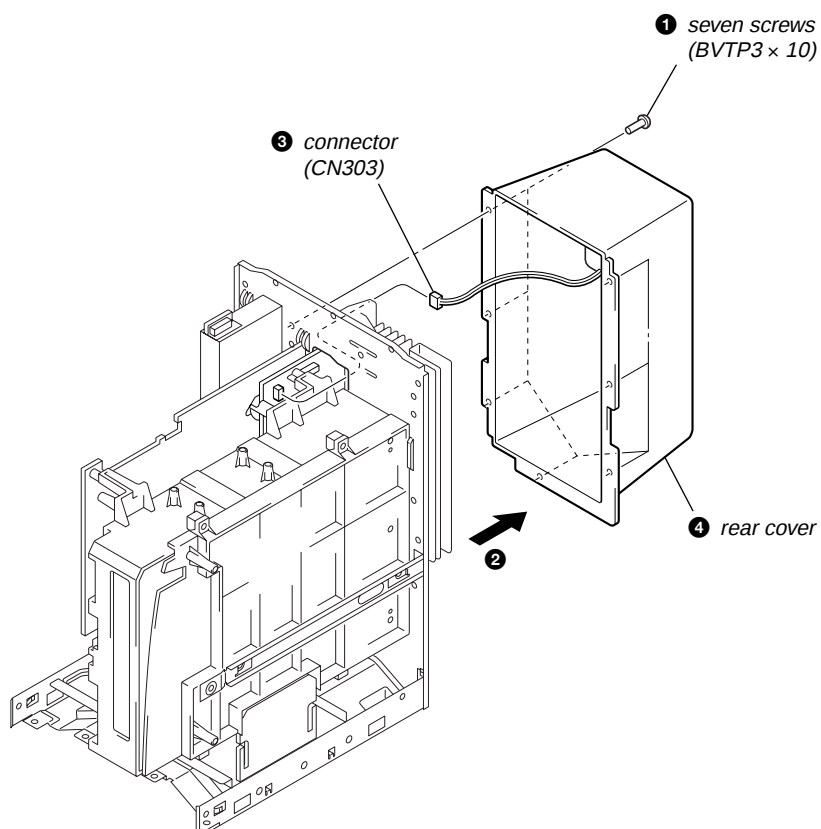
3-4. FRONT PANEL ASSY



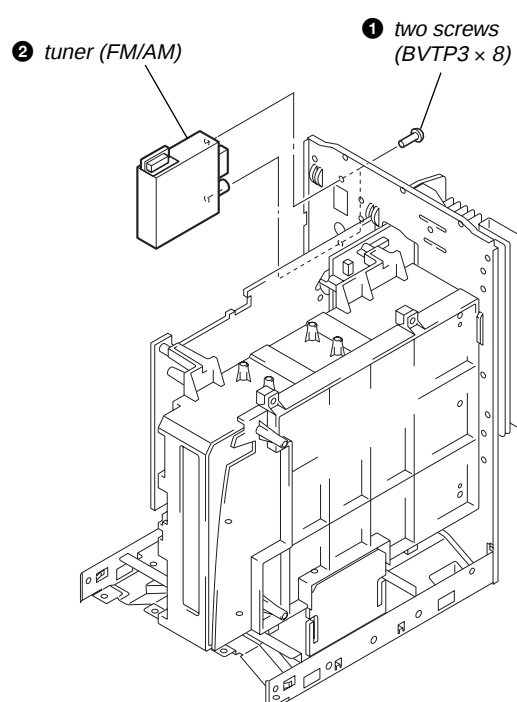
3-5. MAIN BOARD



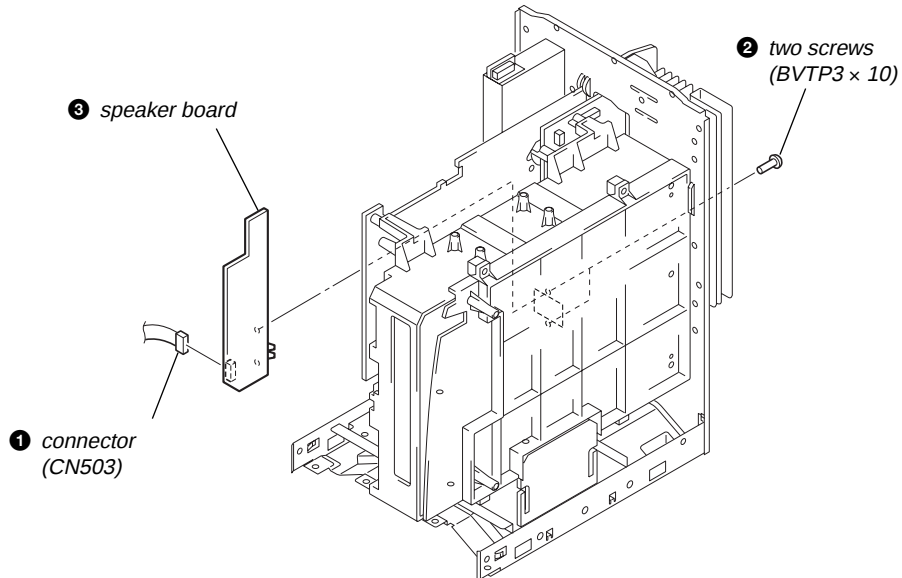
3-6. REAR COVER



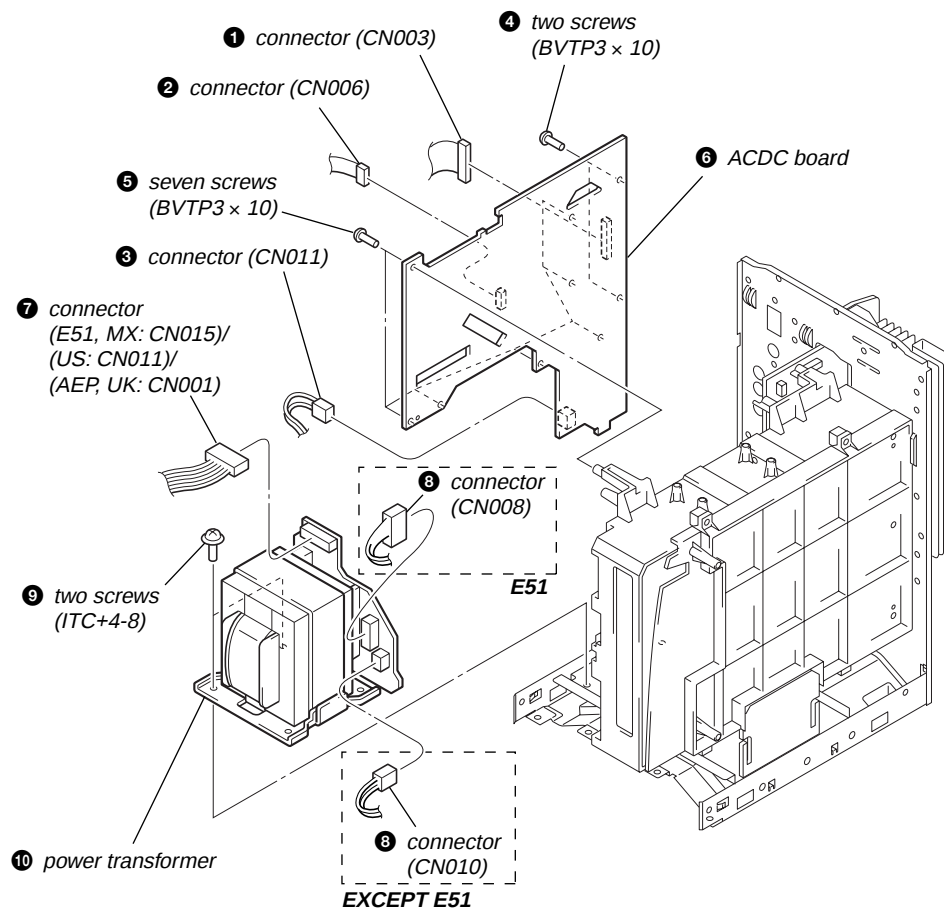
3-7. TUNER (FM/AM)



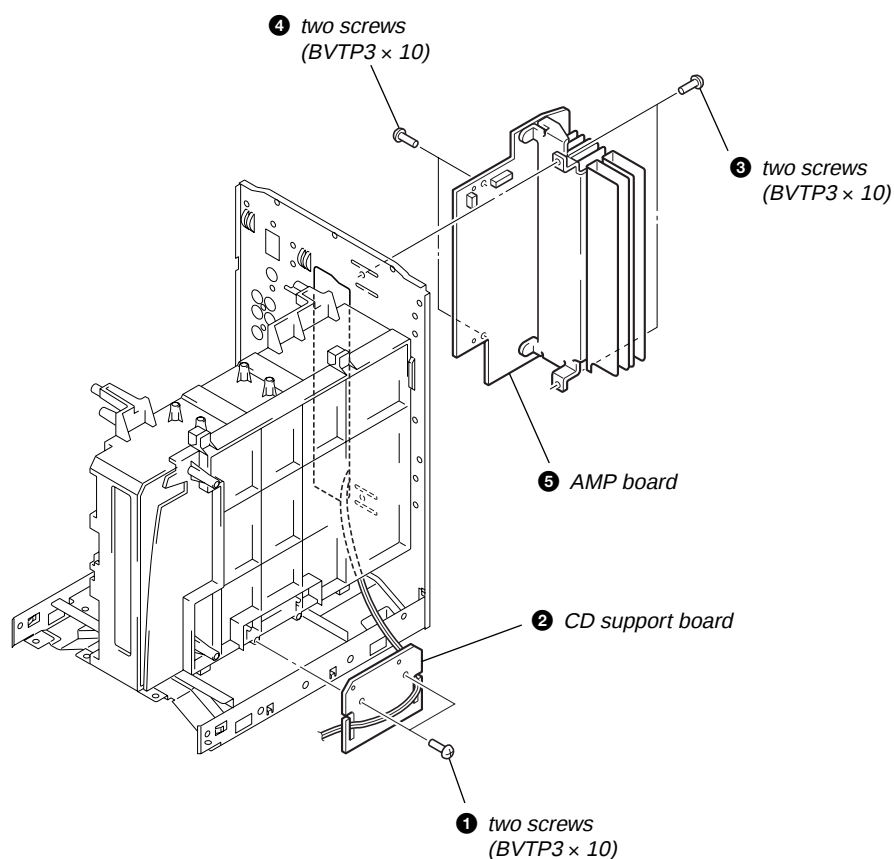
3-8. SPEAKER BOARD



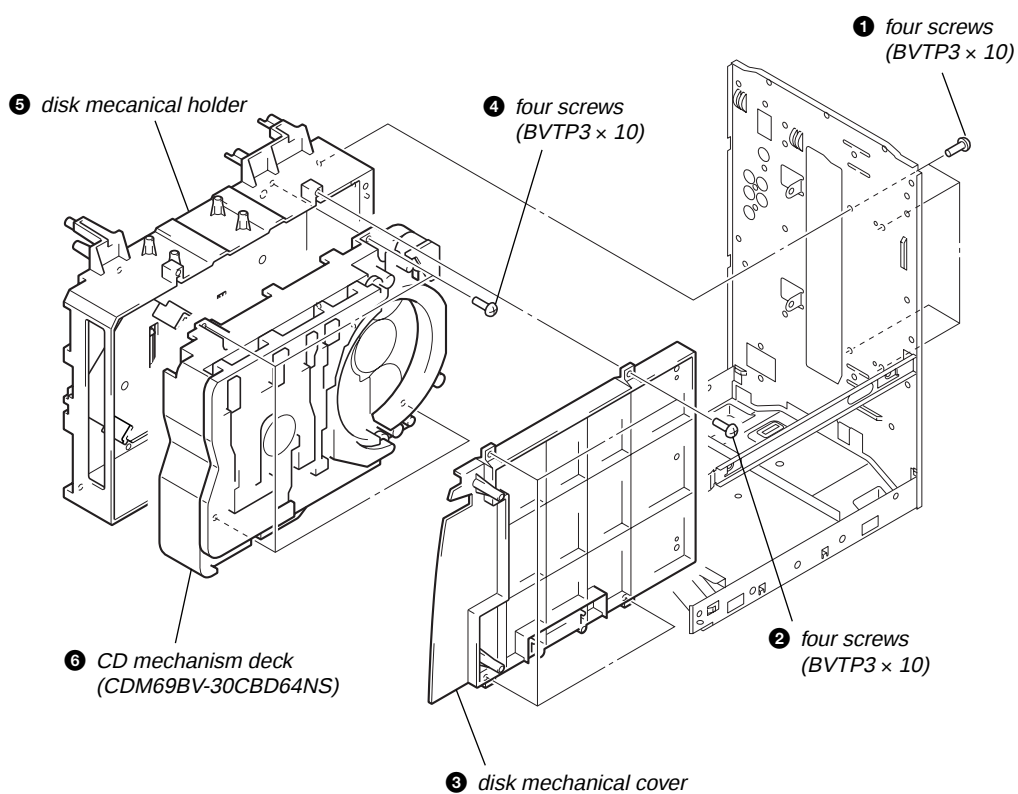
3-9. ACDC BOARD, POWER TRANSFORMER



3-10. AMP BOARD

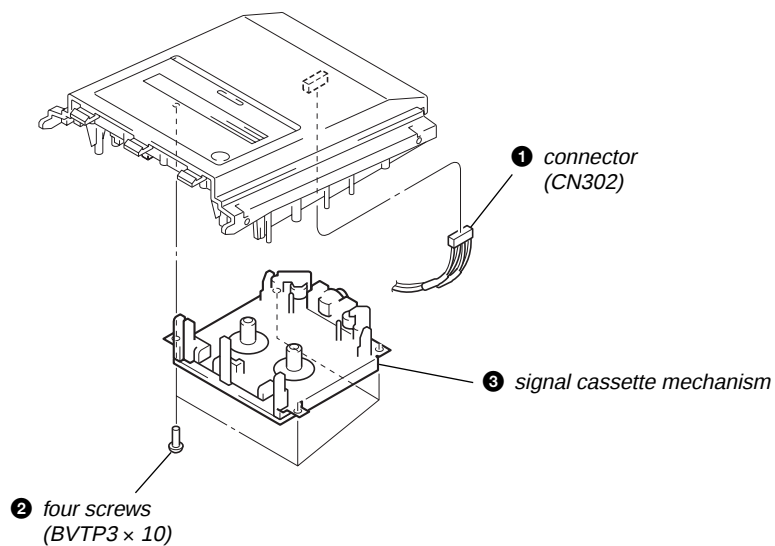


3-11. CD MECHANISM DECK (CDM69BV-30CBD64NS)

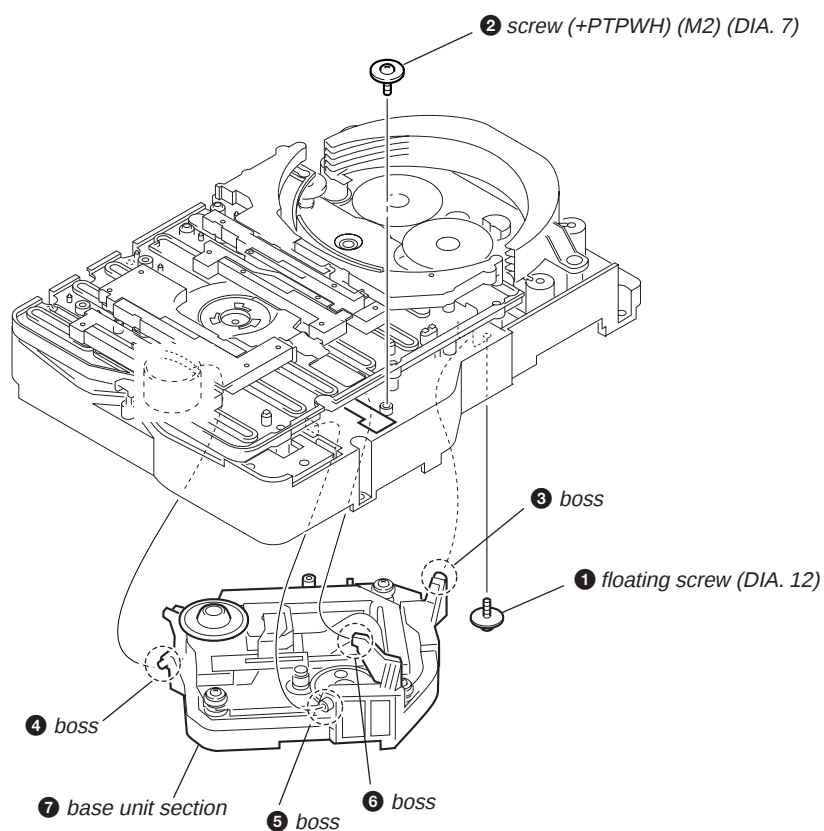


3-12. SIGNAL CASSETTE MECHANISM

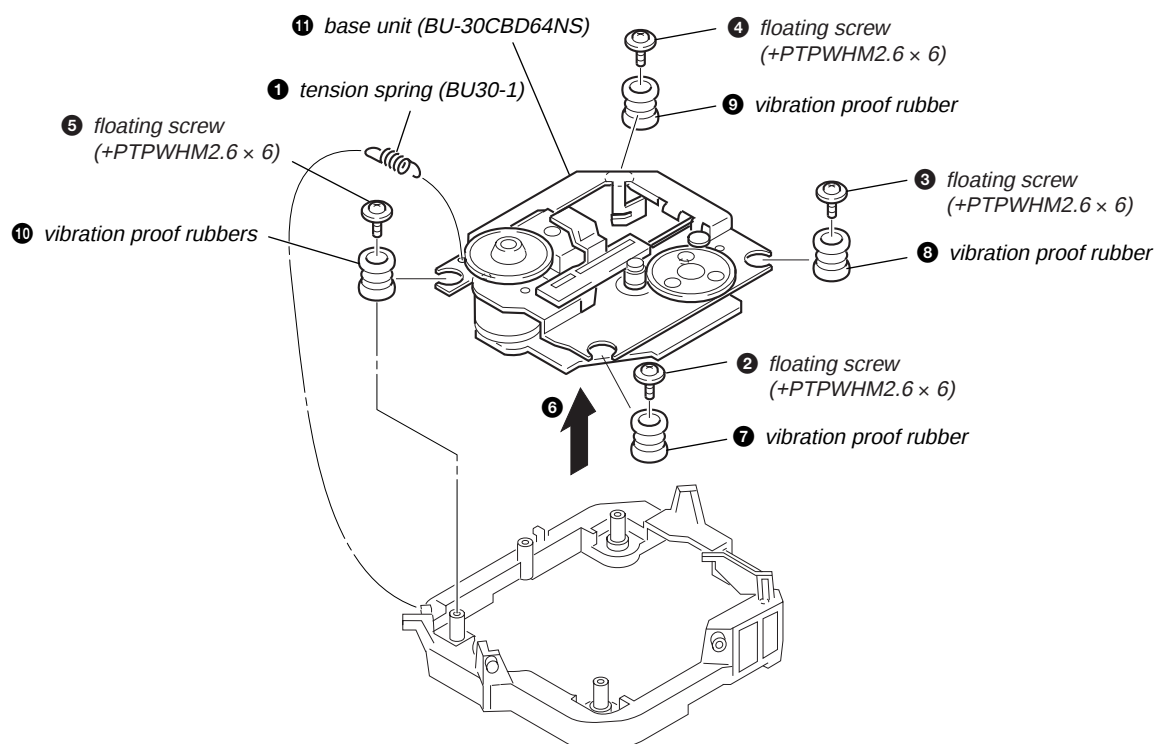
- *Tape deck is not loaded in US model.*



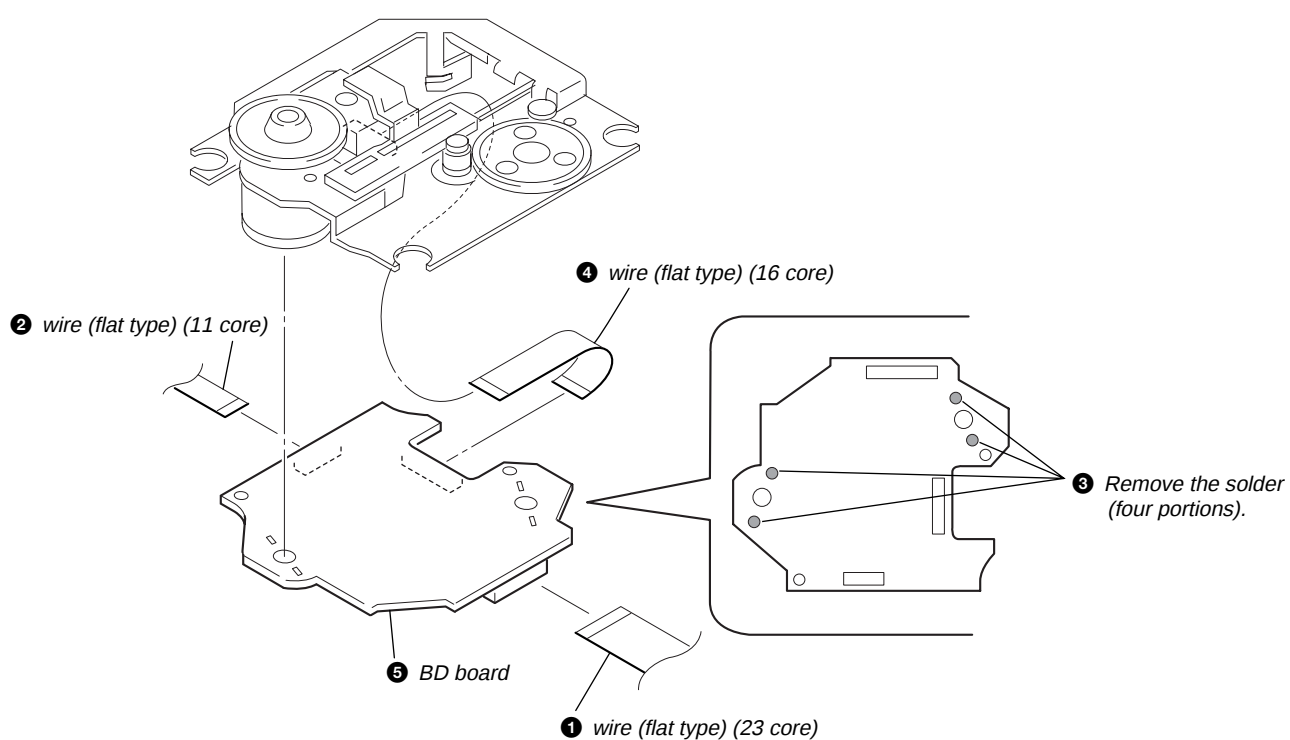
3-13. BASE UNIT SECTION



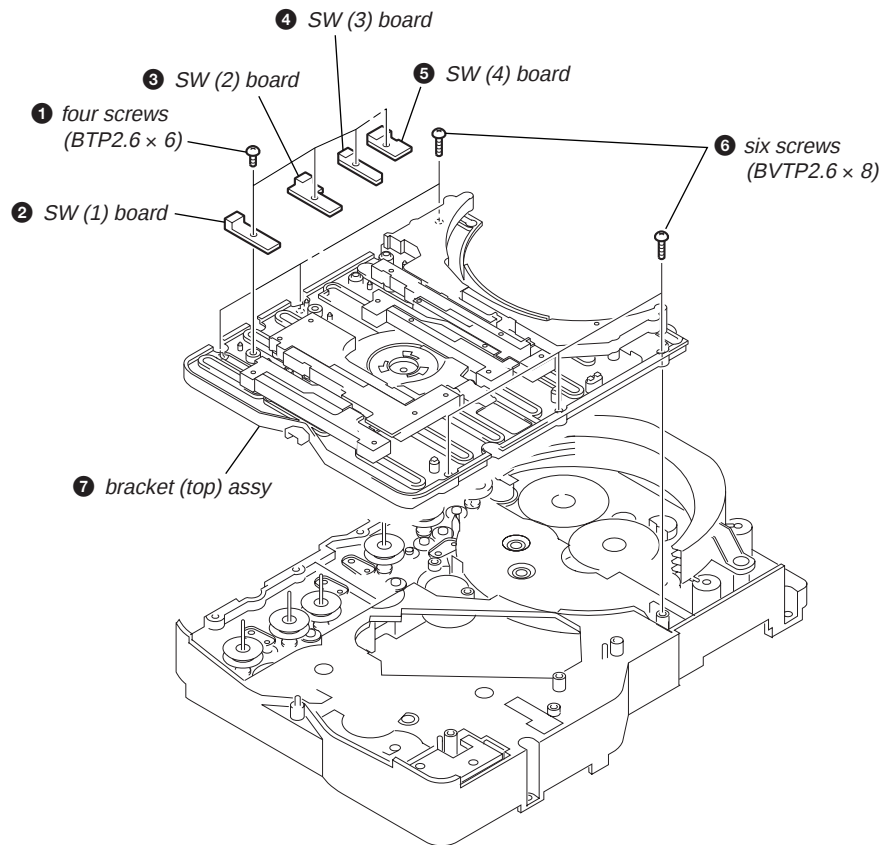
3-14. BASE UNIT (BU-30CBD64NS)



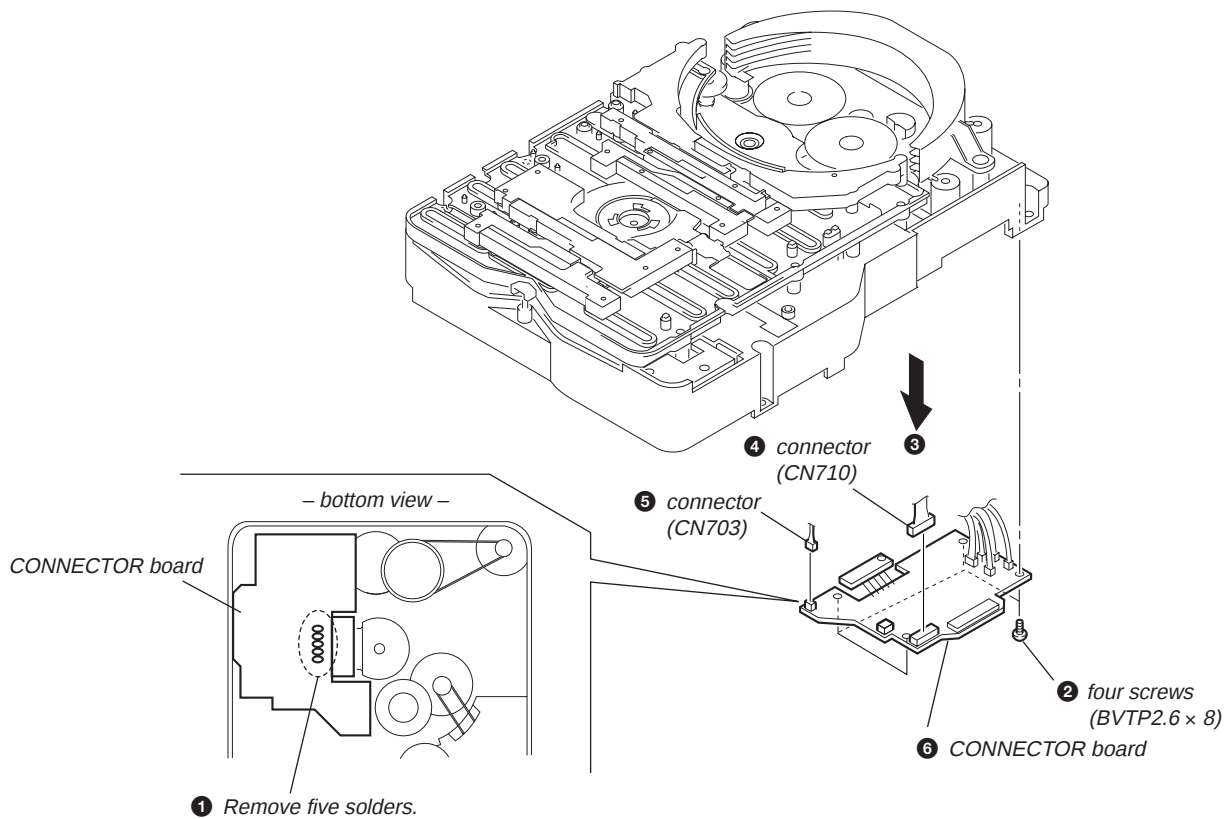
3-15. BD BOARD



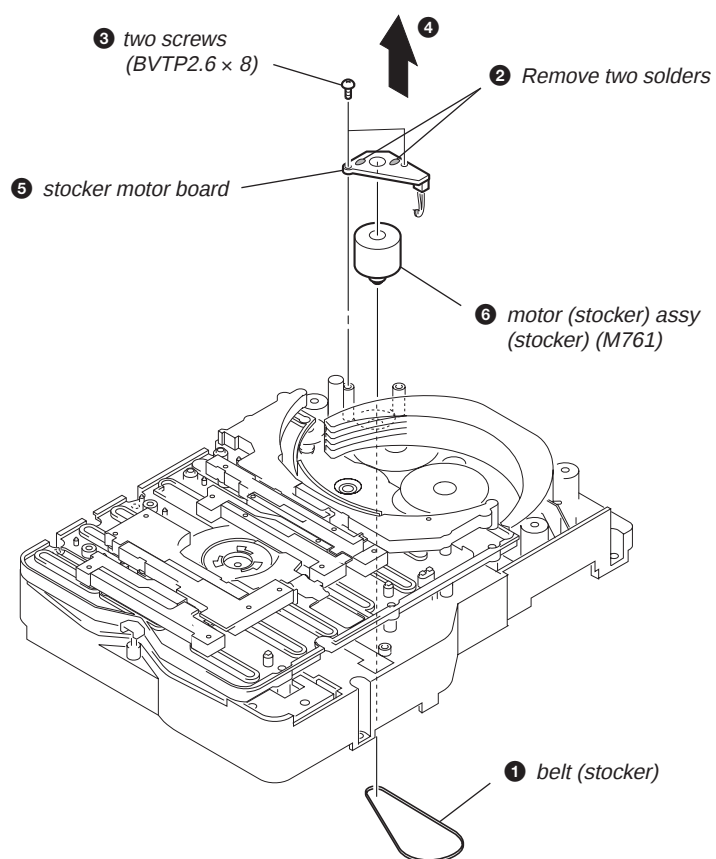
3-16. SW (1) BOARD, SW (2) BOARD, SW (3) BOARD, SW (4) BOARD, BRACKET (TOP) ASSY



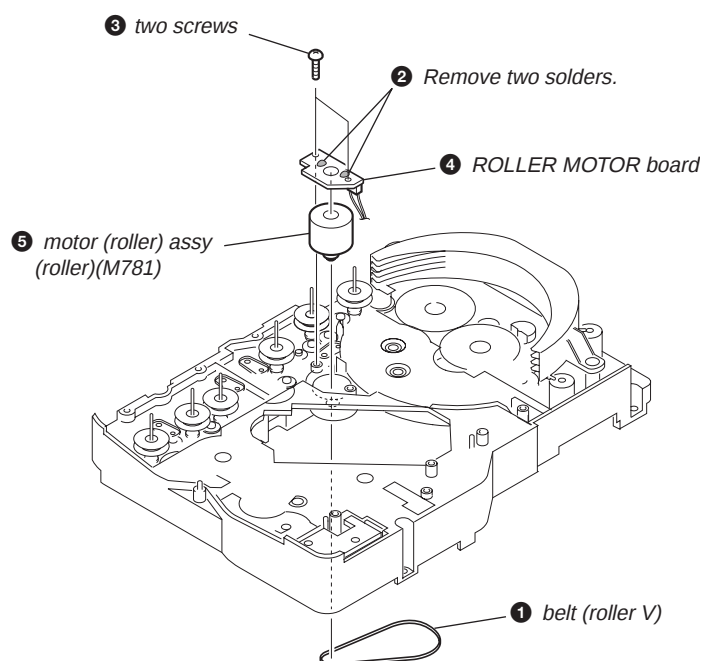
3-17. CONNECTOR BOARD



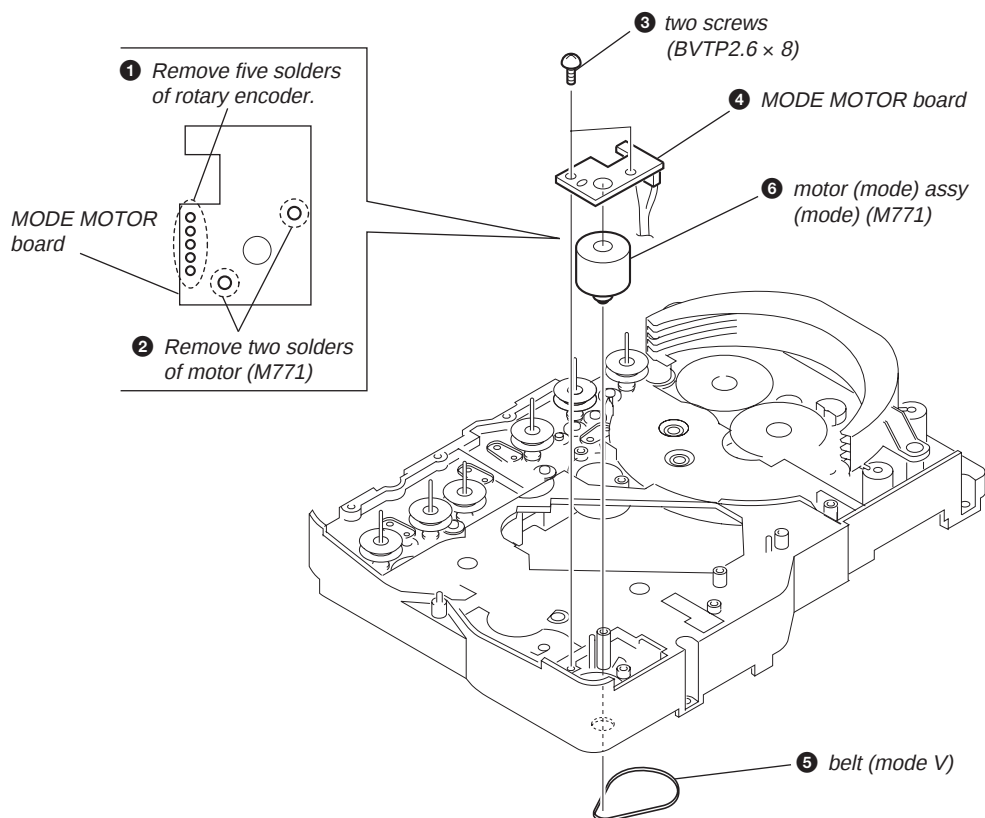
3-18. MOTOR (STOCKER) ASSY (STOCKER) (M761)



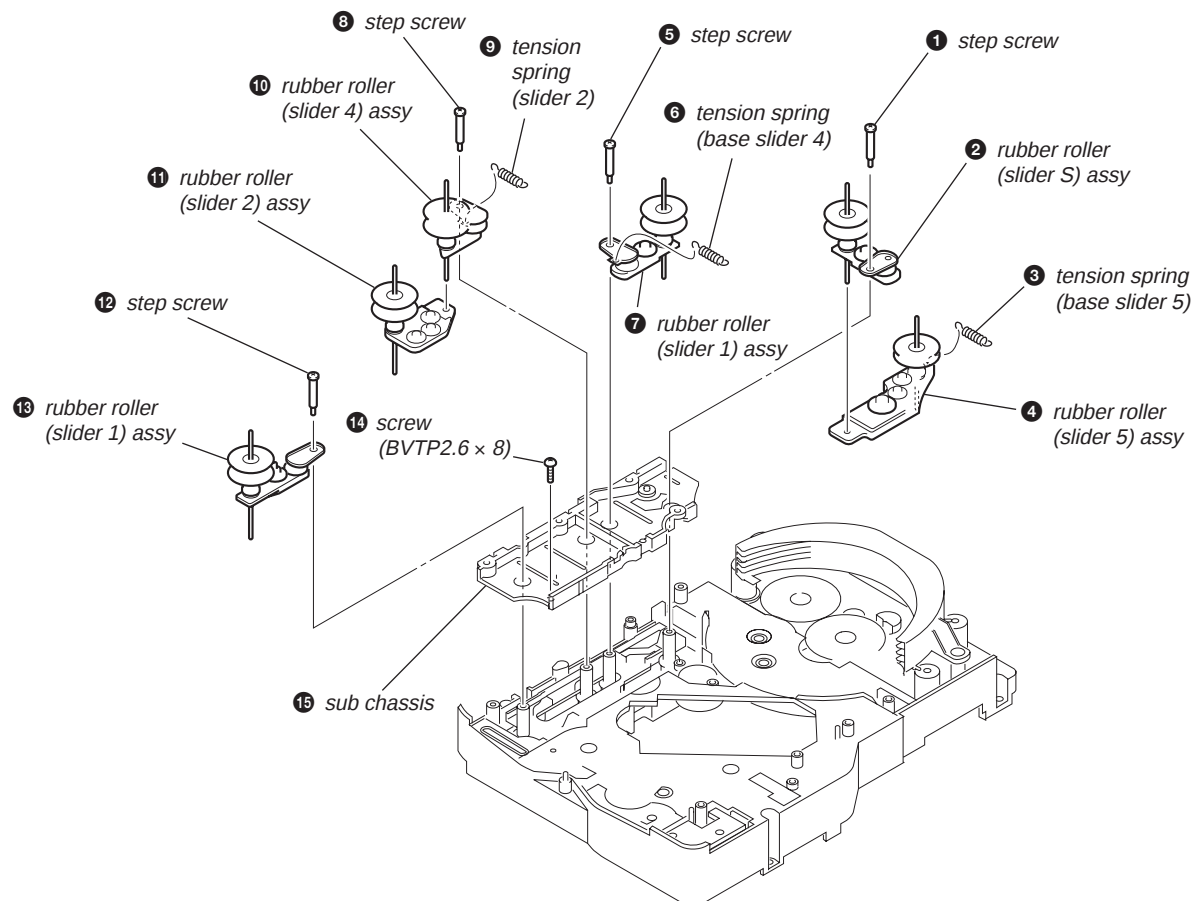
3-19. MOTOR (ROLLER) ASSY (ROLLER) (M781)



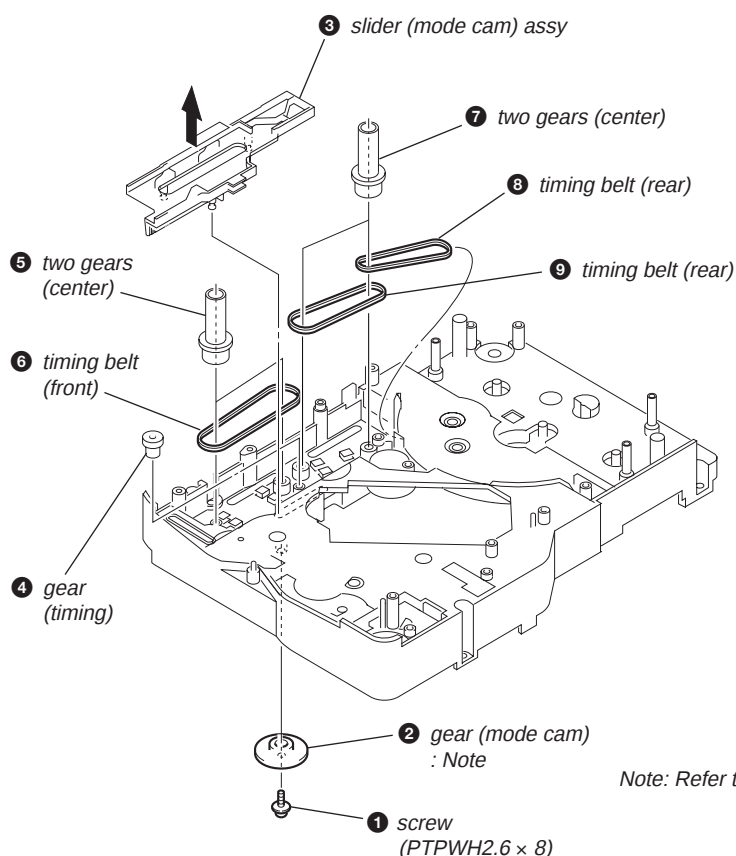
3-20. MOTOR (MODE) ASSY (MODE) (M771)



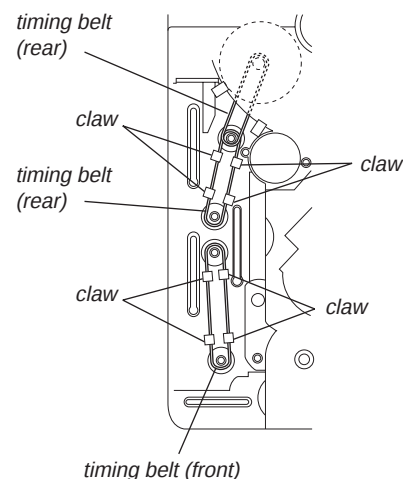
3-21. RUBBER ROLLER (SLIDER) ASSY



3-22. TIMING BELT (FRONT/REAR)

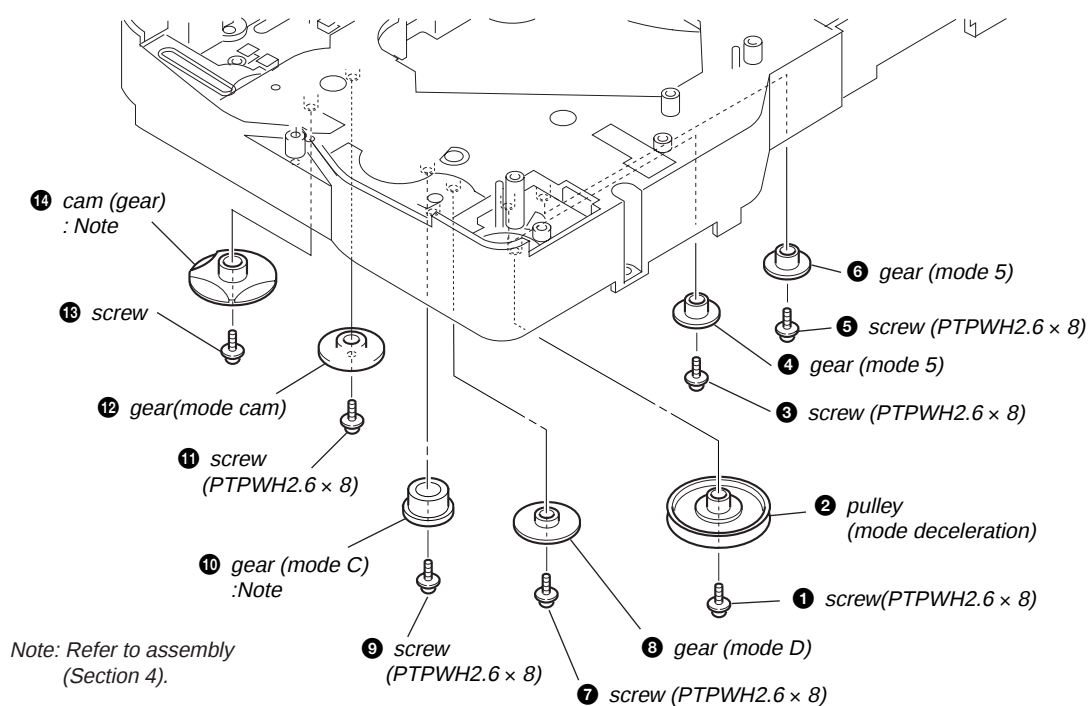


When install three timing belts,
its pass under each claws.

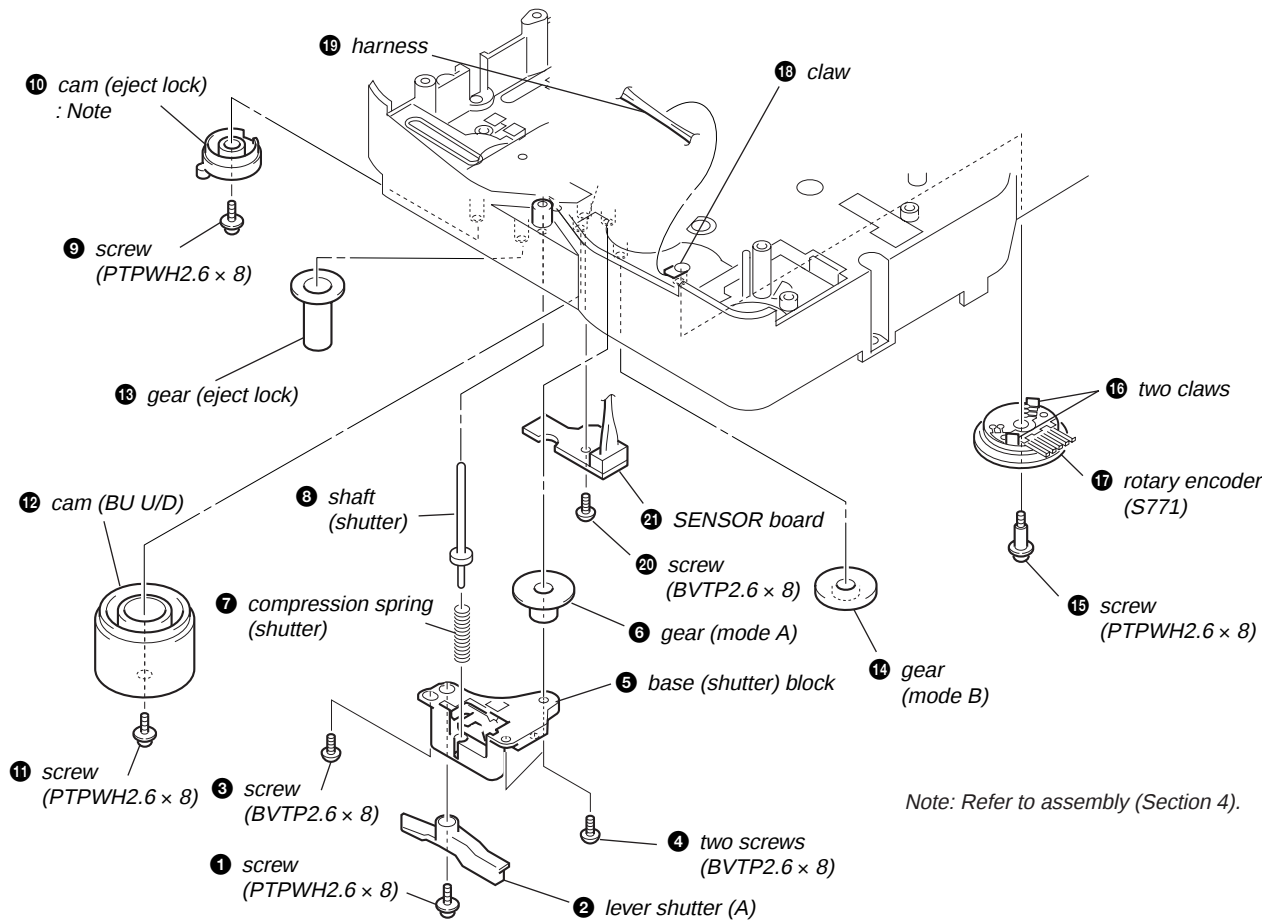


Note: Refer to assembly (Section 4)

3-23. CAM (GEAR)



3-24. SENSOR BOARD

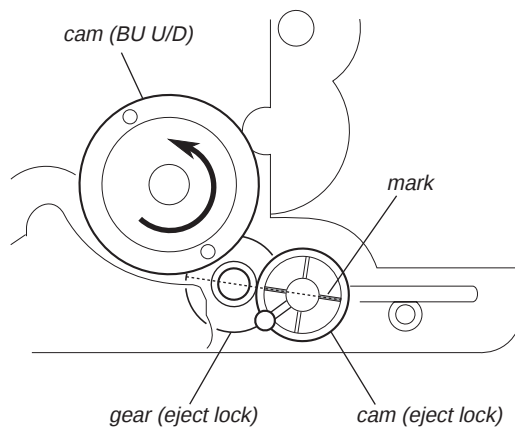


SECTION 4 ASSEMBLY

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

4-1. HOW TO INSTALL THE CAM (EJECT LOCK)

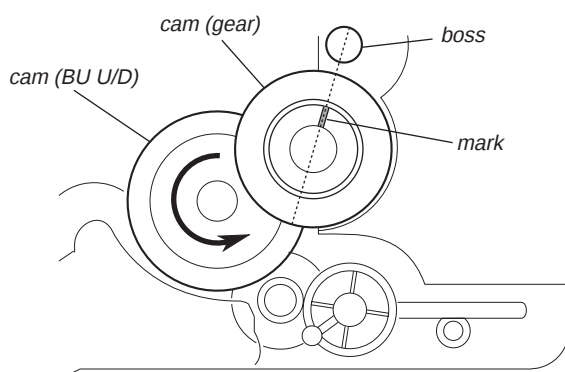
- ❶ Rotate the cam (BU U/D) fully in the direction of arrow.
- ❷ Engage the gear (eject lock) and the gear of the cam (eject lock) aligning the mark with the center of the gear (eject lock).



– bottom view • front –

4-2. HOW TO INSTALL THE CAM (GEAR)

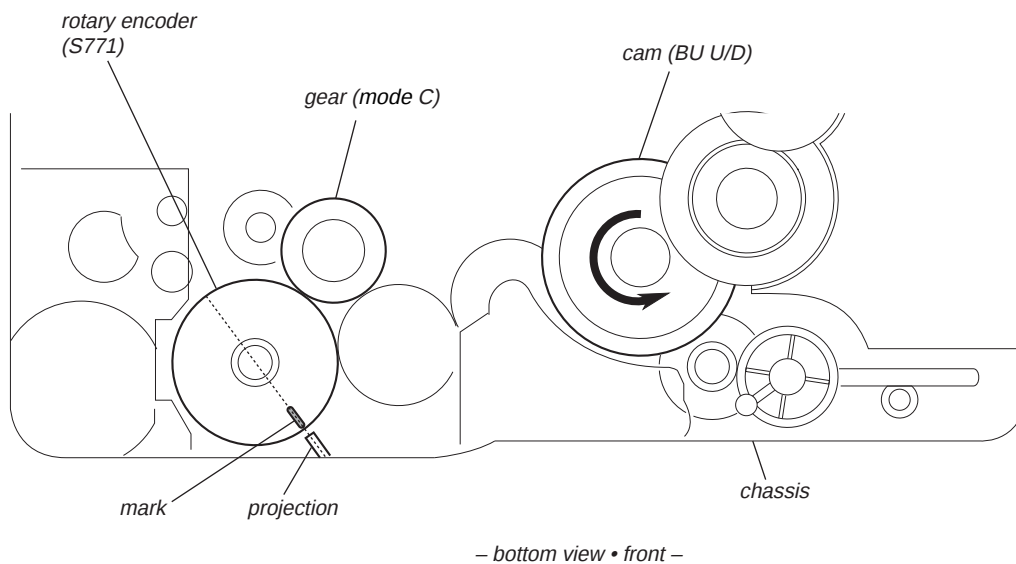
- ❶ Check that the cam (BU U/D) can not be rotated in the direction of arrow.
- ❷ Align the mark on the cam (gear) with the boss as shown in the figure and install the cam (gear).



– bottom view • front –

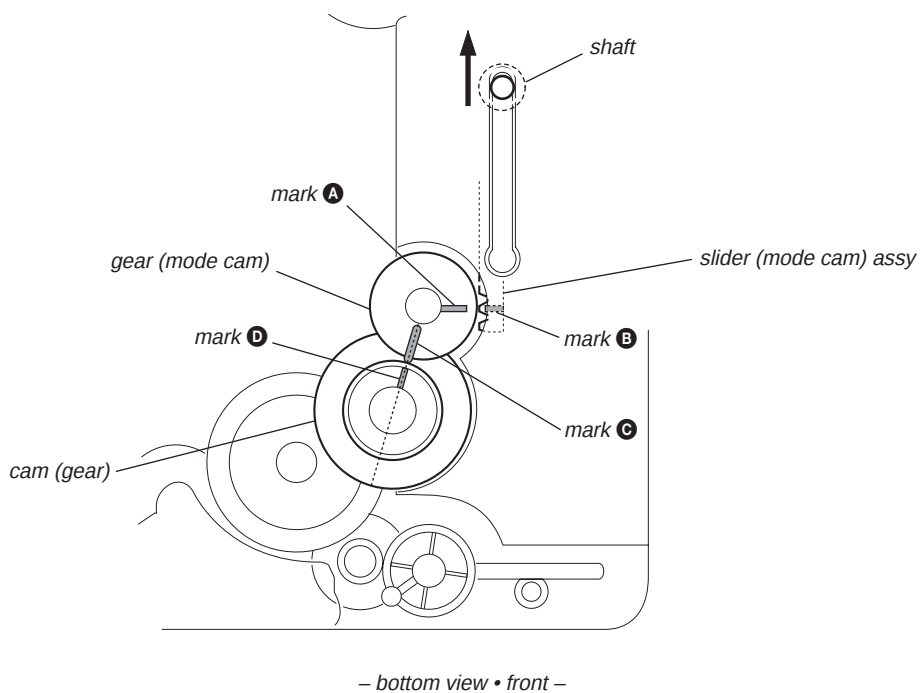
4-3. HOW TO INSTALL THE GEAR (MODE C)

- 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)

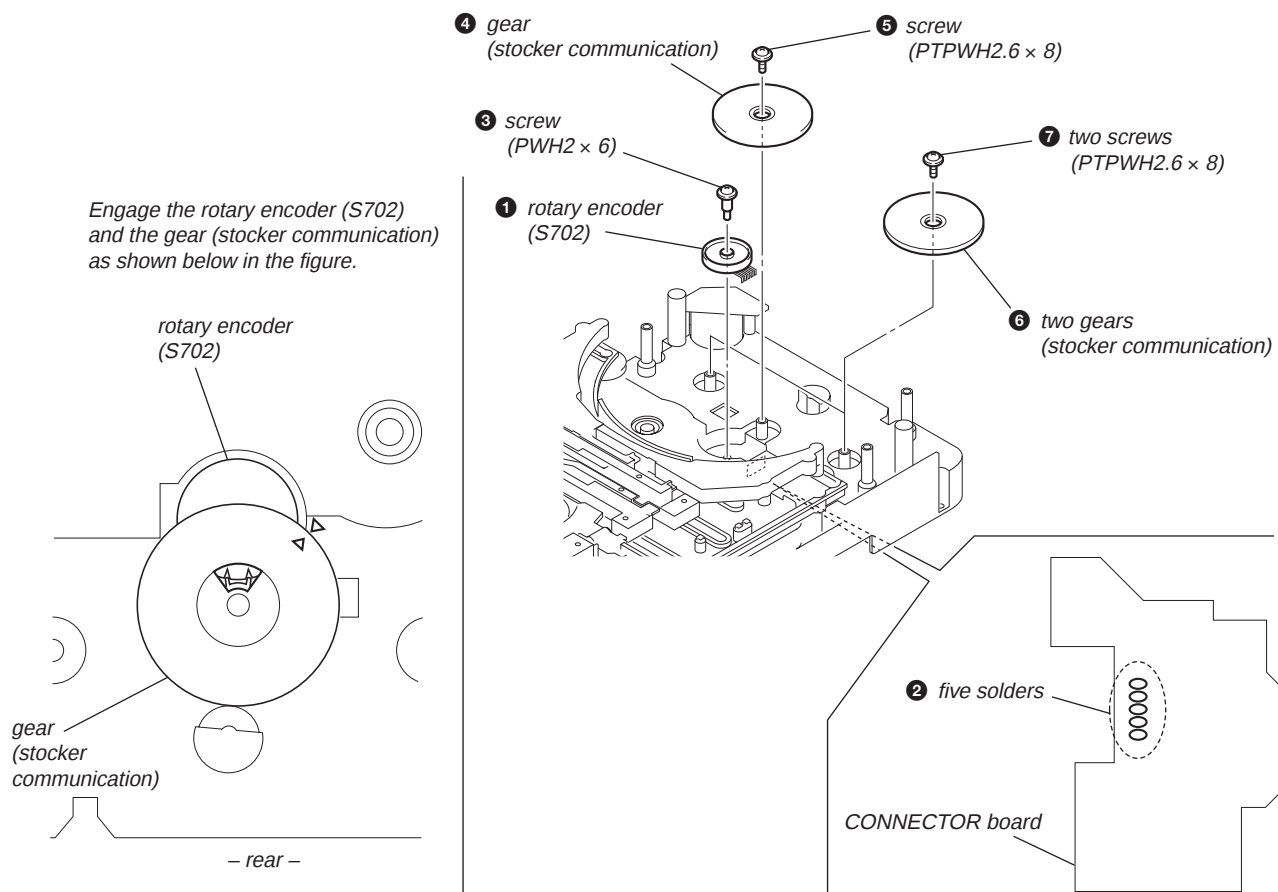


4-4. HOW TO INSTALL THE GEAR (MODE CAM)

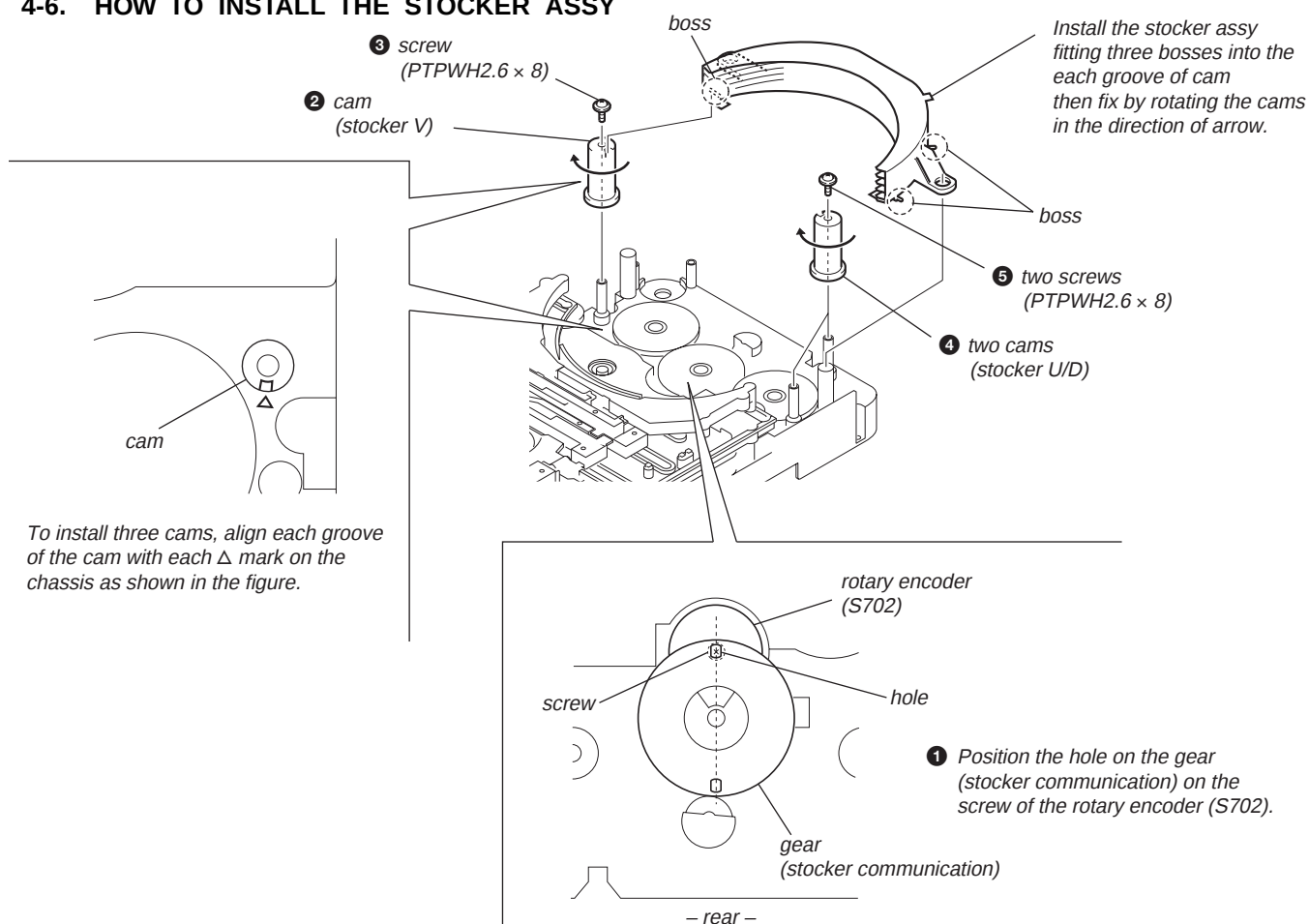
- ❶ Slide the shaft in the direction of arrow.
- ❷ Align mark **A** on the gear (mode cam) with mark **B** on the slider (mode cam) assy, then install the gear (mode cam).
- ❸ Check that mark **C** on the gear (mode cam) is in alignment with mark **D** on the cam (gear).



4-5. HOW TO INSTALL THE ROTARY ENCODER (S702), GEAR (STOCKER COMMUNICATION)



4-6. HOW TO INSTALL THE STOCKER 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 [FUNCTION] 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 an 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 [▲] simultaneously for five seconds.
3. The message "LOCKED" is displayed and the tray is locked.

Releasing Procedure :

1. Press two buttons of [■] and [▲] 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 [GEQ] 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 [BASE] or [TREBLE] knob is turned, the mes-

sage "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.

Procedure:

1. Set the FUNCTION to AM.
2. While depressing the [BAND] 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 [FUNCTION] 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 [▶] button, normal playback is performed.
5. Each time the [▶] button is pressed during normal playback, the tracking servo is switched on or off.

[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 three buttons of [■] and [FUNCTION] and [▶] simultaneously.
4. The repeat all mark blinks and then repeat 5 times limit is released.

SECTION 6 MECHANICAL ADJUSTMENTS

• TAPE MECHANISM DECK SECTION

Note: Tape deck is not loaded in US model.

Precaution

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

record/playback heads	pinch rollers
erase head	rubber belts
capstan	idlers
- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- 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

Note: Tape deck is not loaded in US model.

Precaution

- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjust.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- 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.)
- The adjustments should be performed for both L-CH and R-CH.
- Switches and controls should be set as follows unless otherwise specified.

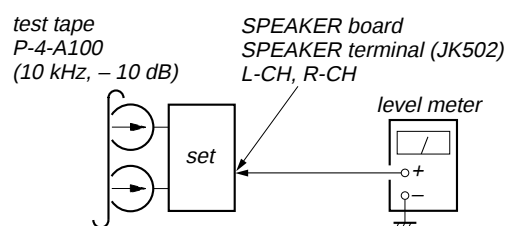
• Test Tape

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

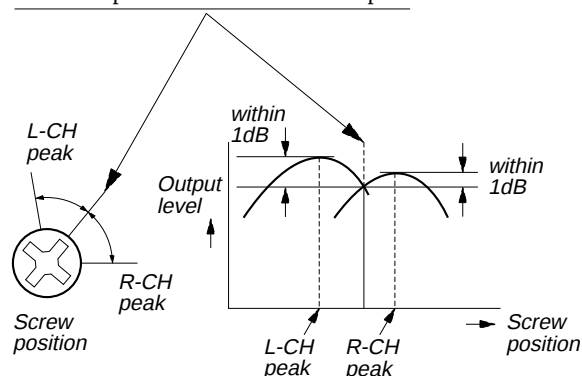
Record/Playback Head Azimuth Adjustment

Procedure:

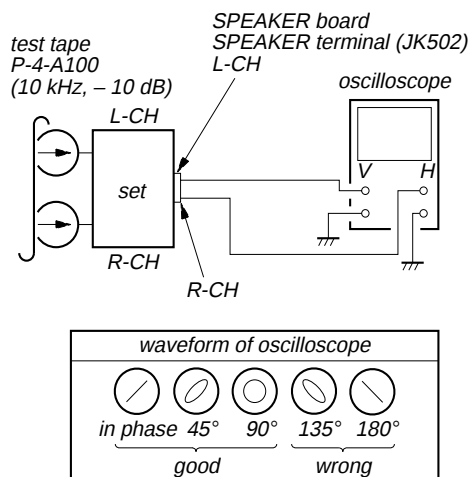
- Mode: Playback



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

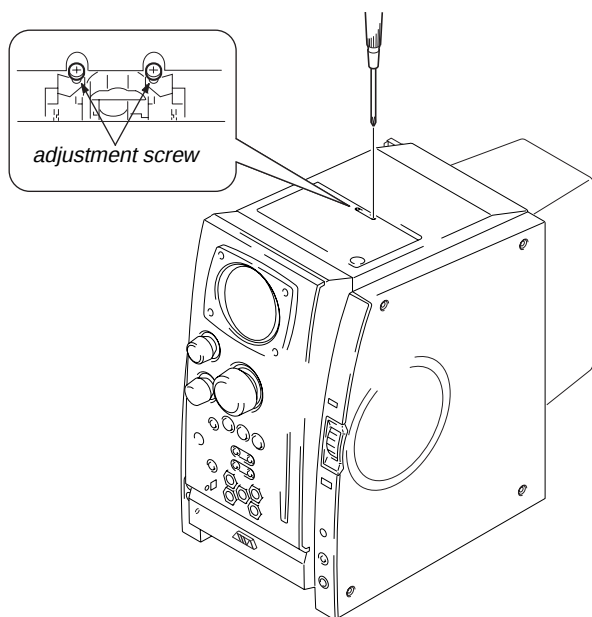


3. Mode: Playback



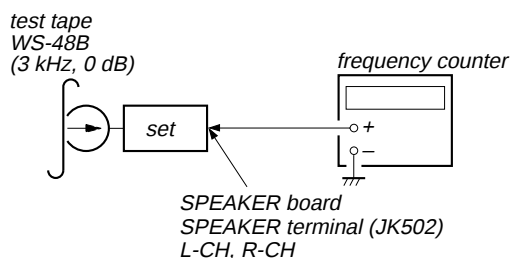
4. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location: Record/Playback/Erase Head



Tape Speed Check

Mode: Playback



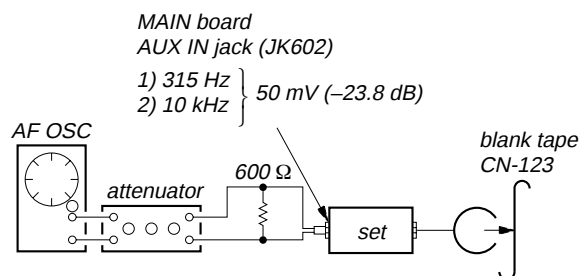
1. Insert the WS-48B into the deck.
2. Press the button.
3. Confirm that the frequency counter reads $3,000 \pm 90$ Hz.

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

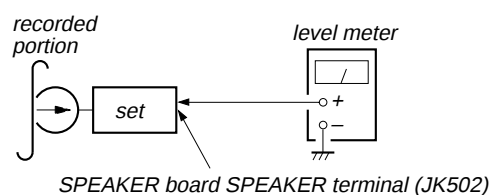
Record Bias Adjustment

Procedure:

1. Record mode



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

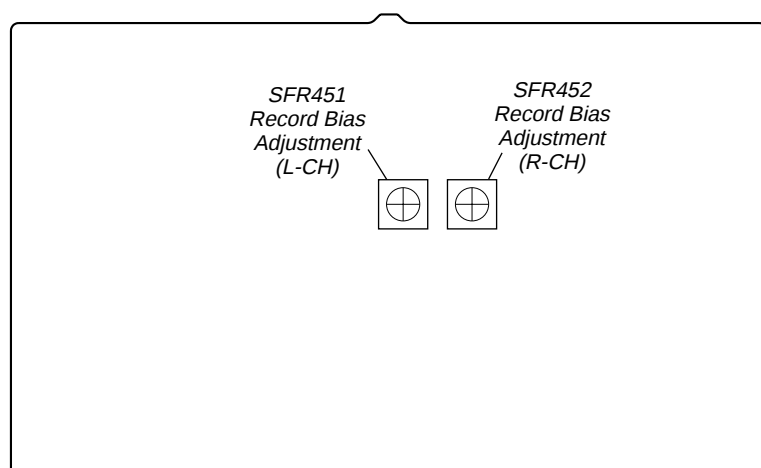


3. Confirm playback the signal recorded in step 1 become adjustment level as follows.
4. If these levels do not adjustment level, adjustment the SFR451 (L-CH) and SFR452 (R-CH) to repeat steps 1 and 4.

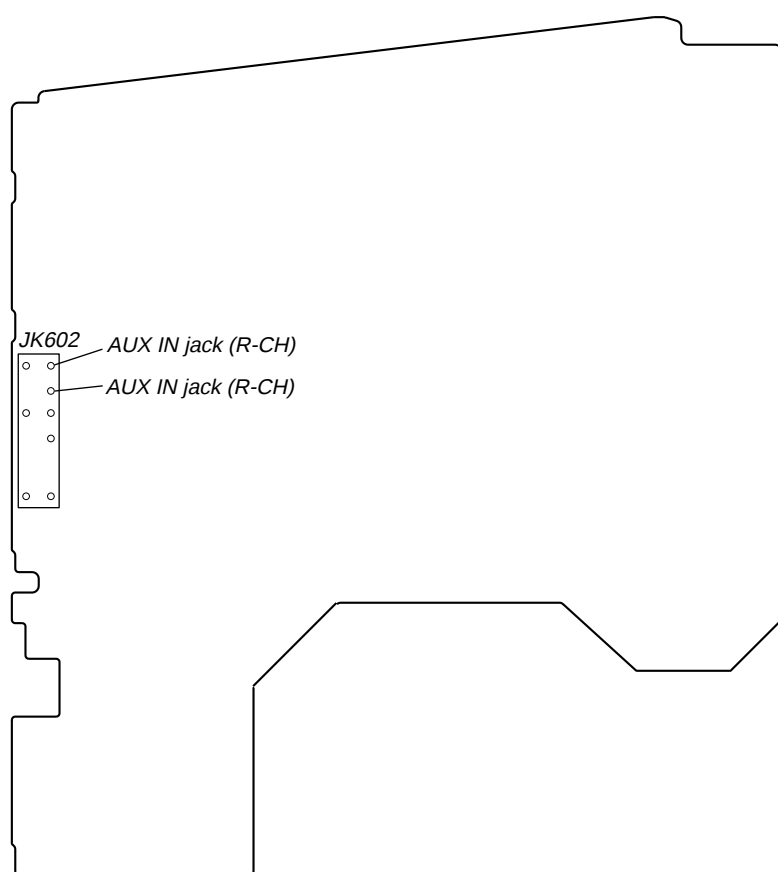
Adjustment level: Playback output of 315 Hz to playback output of 10 kHz: 0 ± 1.0 dB (0 ± 4.5 mV).

Adjustment Location: DECK board (Page 27)

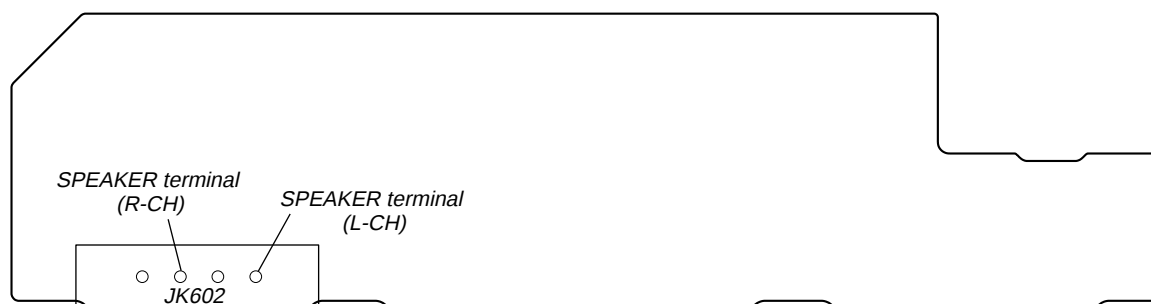
– DECK Board (Component Side) (Except US model) –



– MAIN Board (Conductor Side) –



– SPEAKER Board (Conductor Side) –



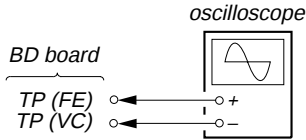
CD SECTION

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

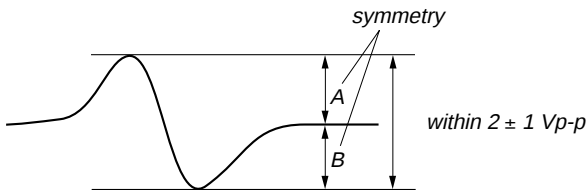
Connection:



Procedure:

1. Connect an oscilloscope to test point TP (FE) and TP (VC) on the BD board.
2. While depressing the button, insert an AC plug.
3. Put the disc (YEDS-18) in and press the 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

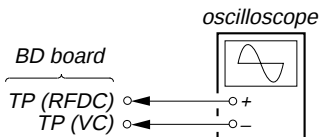


- Note:**
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
 - Take sweep time as long as possible and light up the brightness to obtain best waveform.

Checking Location: BD board (Side B)

RFDC Level Check

Connection:

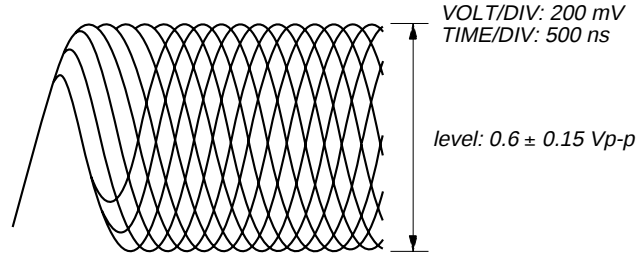


Procedure:

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.

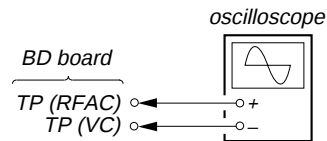
RFDC signal waveform



Checking Location: CD board (Conductor side)

RFAC Level Check

Connection:

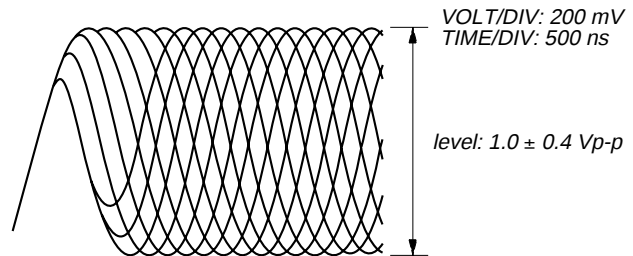


Procedure:

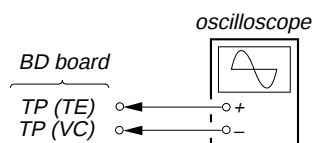
1. Connect an oscilloscope to test point TP (RFAC) and TP (VC) on the BD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFAC signal level is correct or not.

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

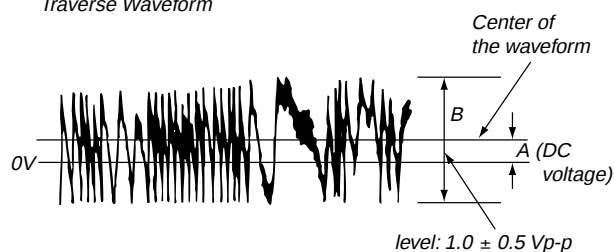
RFAC signal waveform



Checking Location: BD board (Side B)

E-F Balance Adjustment**Connection:****Procedure:**

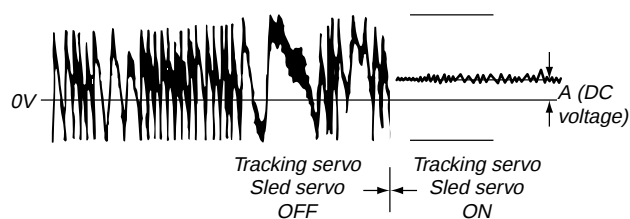
1. Connect an oscilloscope to test point TP (TE) and TP (VC) on the BD board.
2. AC is put in pushing button to enter the CD test mode.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Press the button. If it plays, press the button again. (The tracking servo and the sledding servo are turned OFF)
5. Rotate RV101 on the BD board to adjust A (DC voltage) of the center of the oscilloscope waveform becomes 0 V.

Traverse Waveform

6. Press the button. (The tracking servo and sledding servo are turned ON)
Confirm A (DC voltage) at that time is 0 V.
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

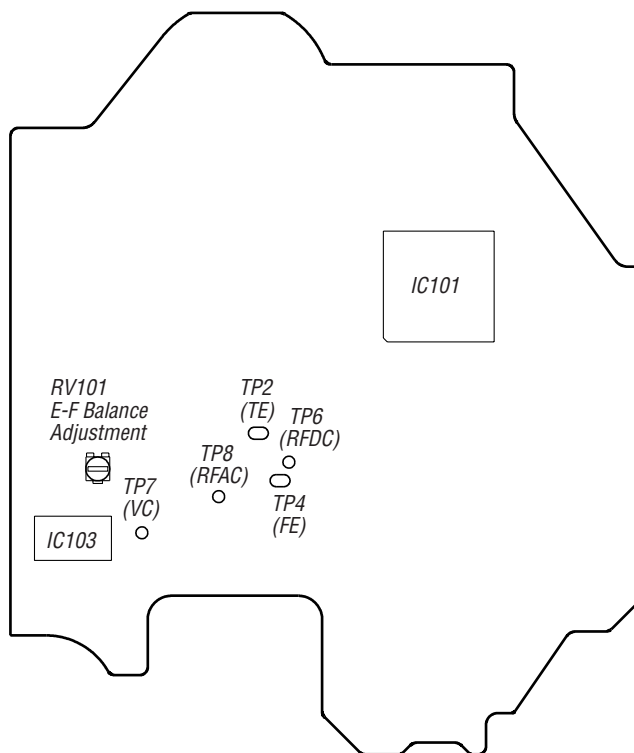
Checking Location: BD board (Side B)

Adjustment after CD Base Unit (BU-30CBD64NS) is Replaced

Perform the “E-F Balance (1 track jump) check”.

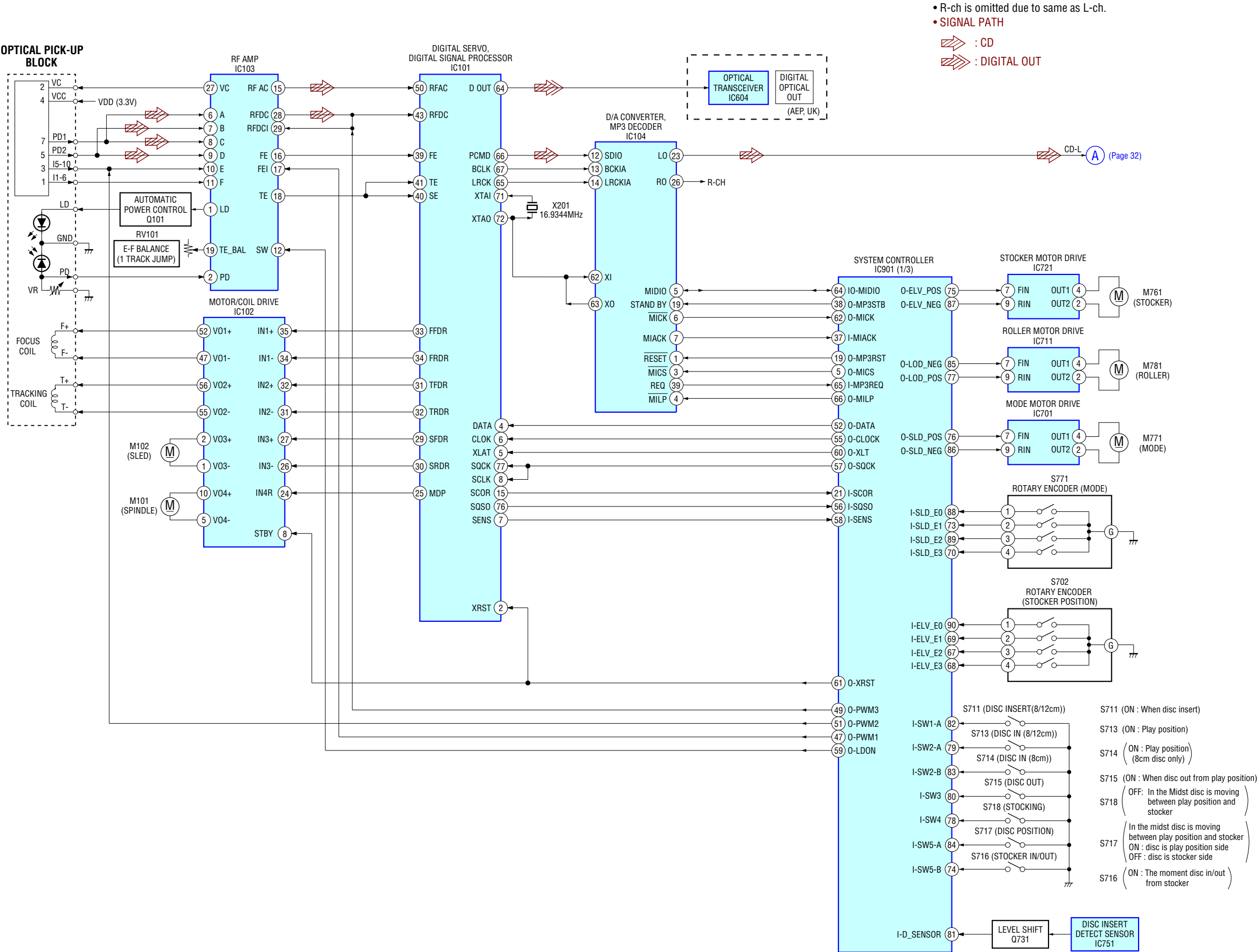
Checking Location:

– BD BOARD (Side B) –

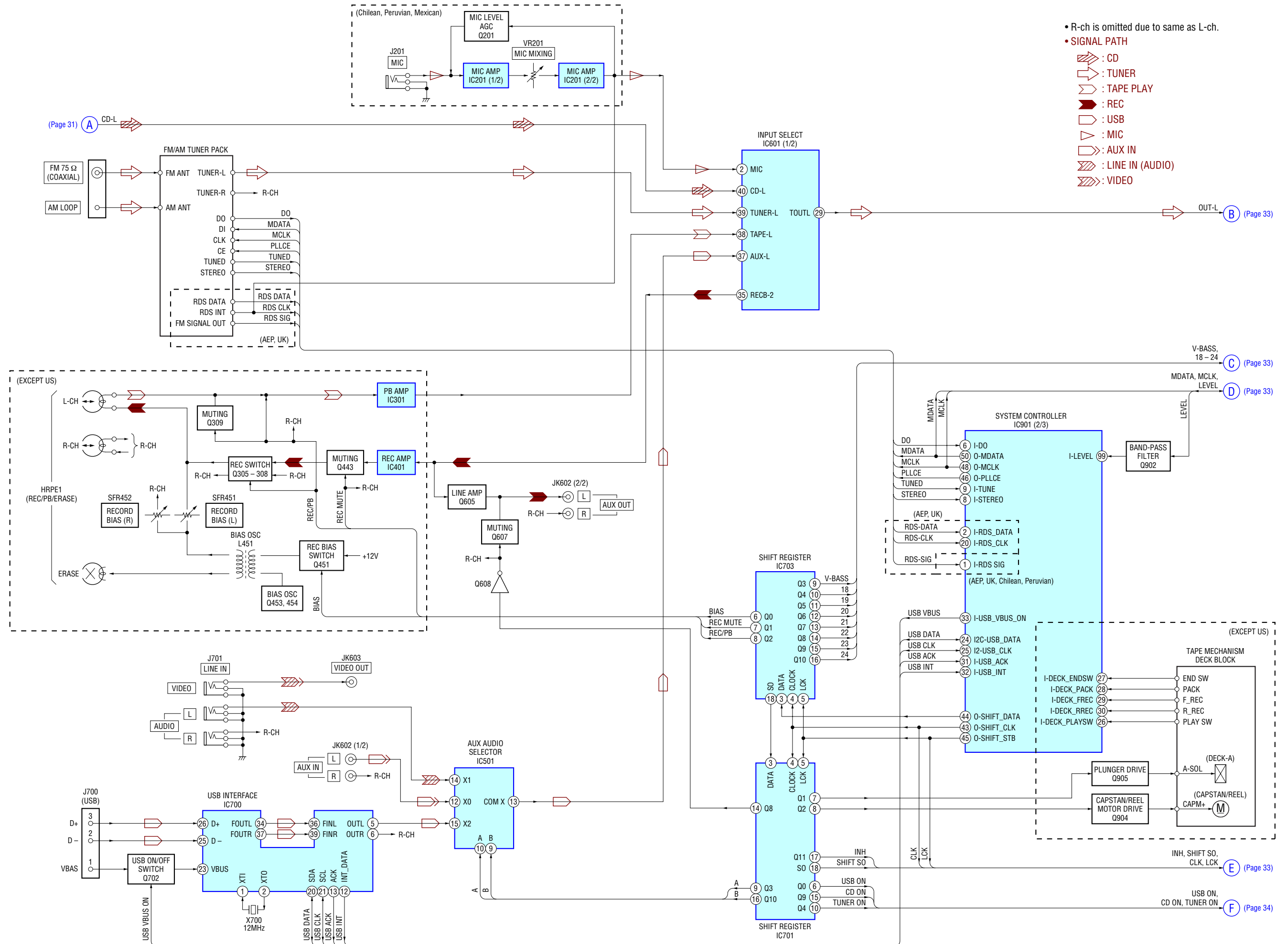


SECTION 8
DIAGRAMS

8-1. BLOCK DIAGRAM – CD Section –



8-2. BLOCK DIAGRAM – TUNER/TAPE/USB Section –

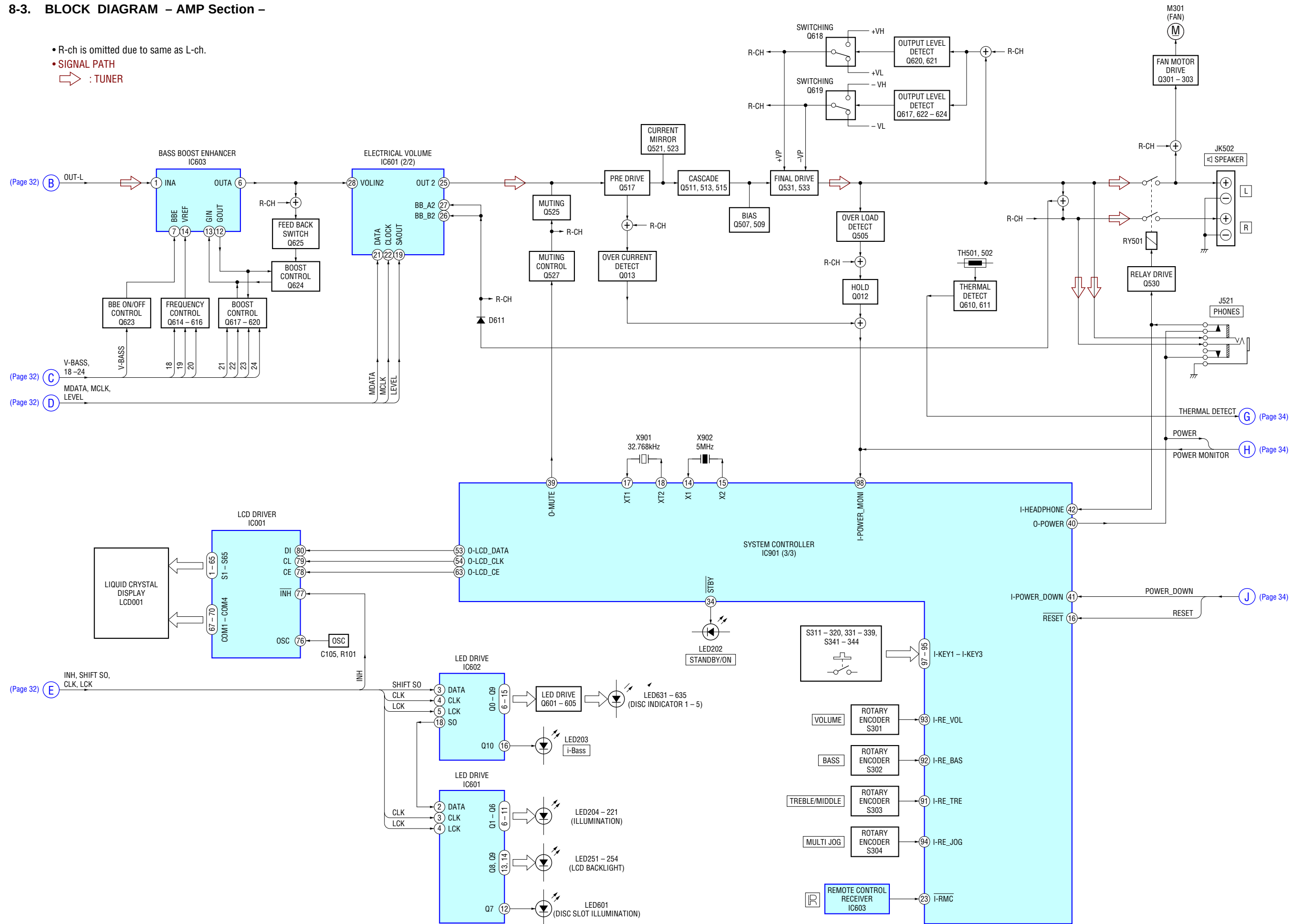


8-3. BLOCK DIAGRAM – AMP Section –

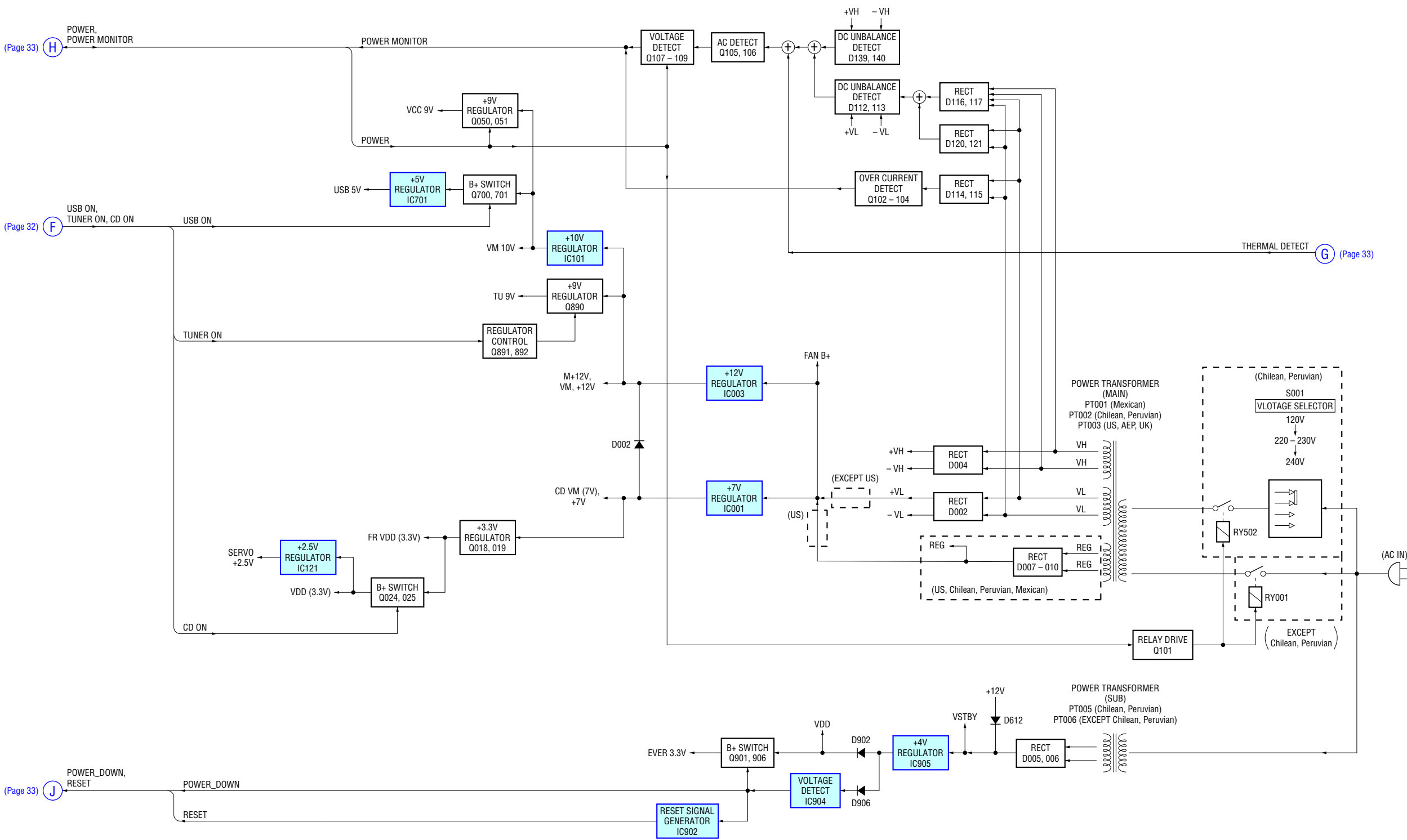
• R-ch is omitted due to same as L-ch.

• SIGNAL PATH

➡ : TUNER



8-4. BLOCK DIAGRAM – POWER SUPPLY Section –



8-5. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Boards:

- : parts extracted from the component side.
 - : parts extracted from the conductor side.
 - : Through hole.
 - △ : internal component.
 - : Pattern from the side which enables seeing.
- (The other layers' patterns are not indicated.)

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

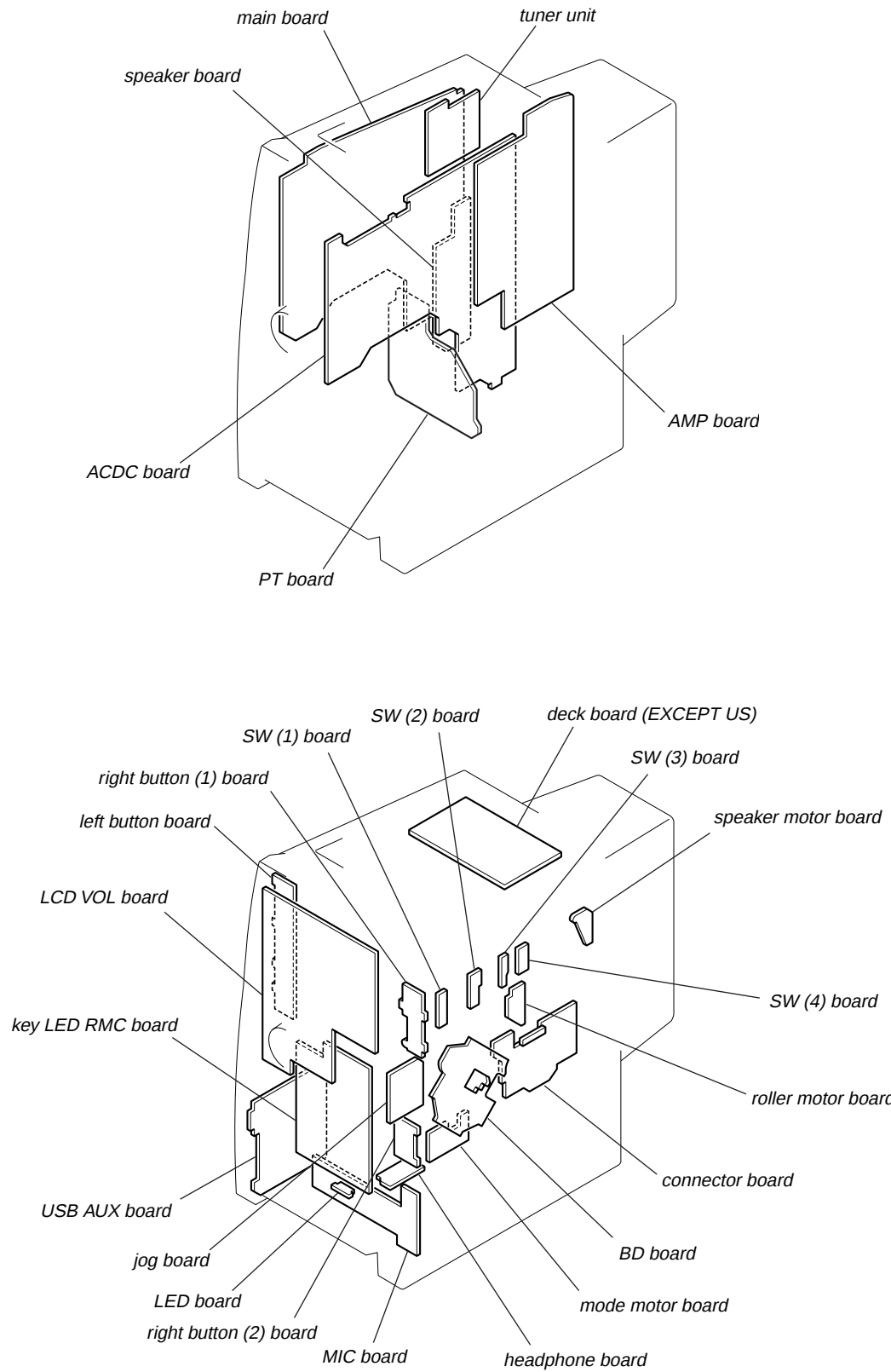
Note on Schematic Diagram:

- 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.
- △ : internal component.
- ⎓ : nonflammable resistor.
- : panel designation.

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

- : B+ Line.
 - - - : B- Line.
 - : adjustment for repair.
 - Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
 - BD Board —
no mark : CD PLAY
 - DECK Board —
no mark : TAPE PLAY
() : TAPE REC
 - USB AUX Board —
no mark : USB
 - Other Board —
no mark : TUNER
() : CD PLAY
<< >> : TAPE PLAY
{ } : TAPE REC
[] : USB
 - * : Impossible to measure
 - Voltages are taken with a VOM (Input impedance 10 M Ω).
Voltage variations may be noted due to normal production tolerances.
 - Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
 - Circled numbers refer to waveforms.
 - Signal path.
 - ⇒ : TUNER
 - ⇒ : CD
 - ⇒ : DIGITAL OUT
 - ⇒ : TAPE PLAY
 - ⇒ : USB
 - ⇒ : REC
 - ⇒ : MIC
 - ⇒ : AUX IN
 - ⇒ : LINE IN (AUDIO)
 - ⇒ : VIDEO
- Abbreviation
E51 : Chilean and Peruvian models
MX : Mexican model

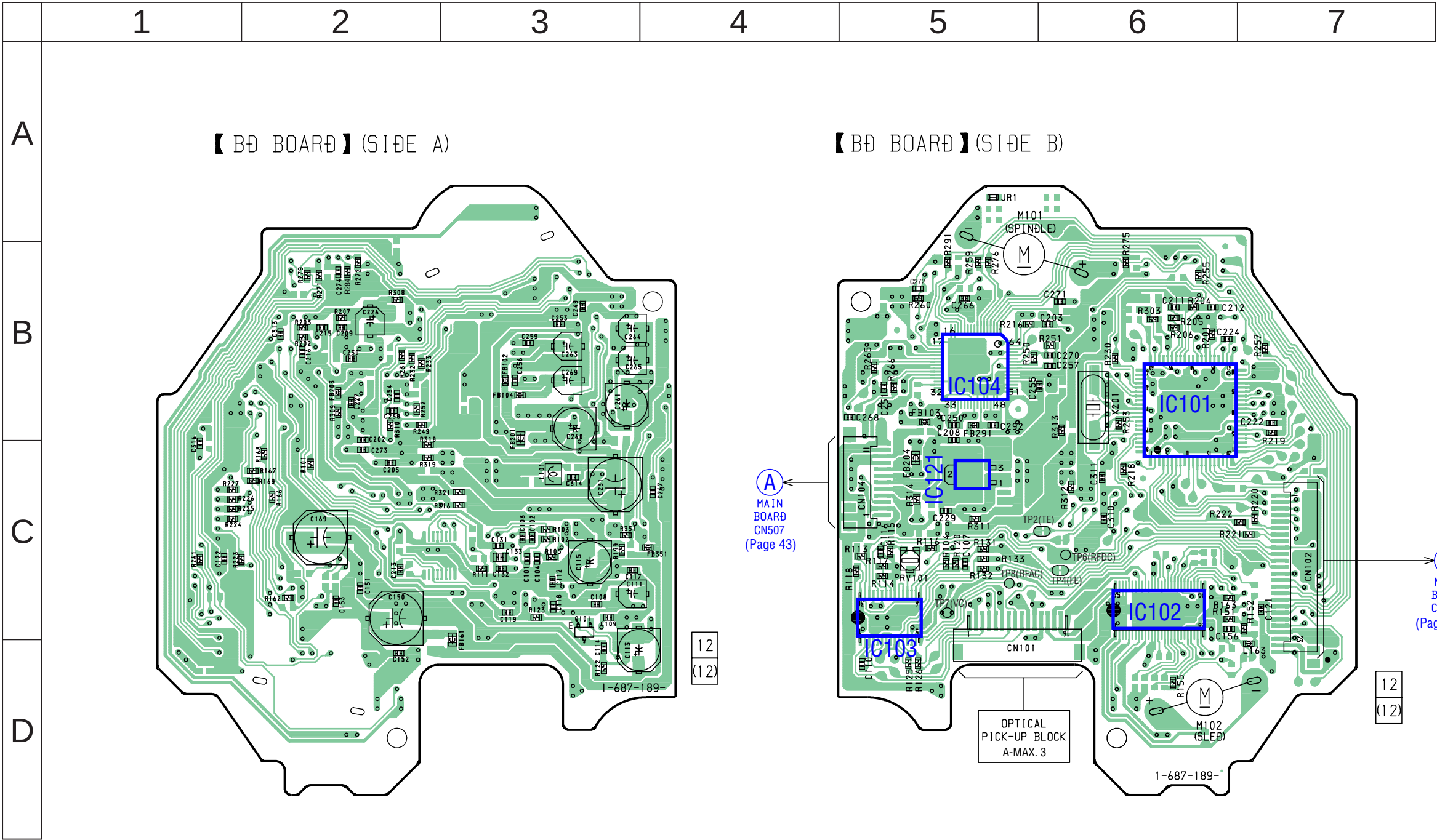
• Circuit Boards Location



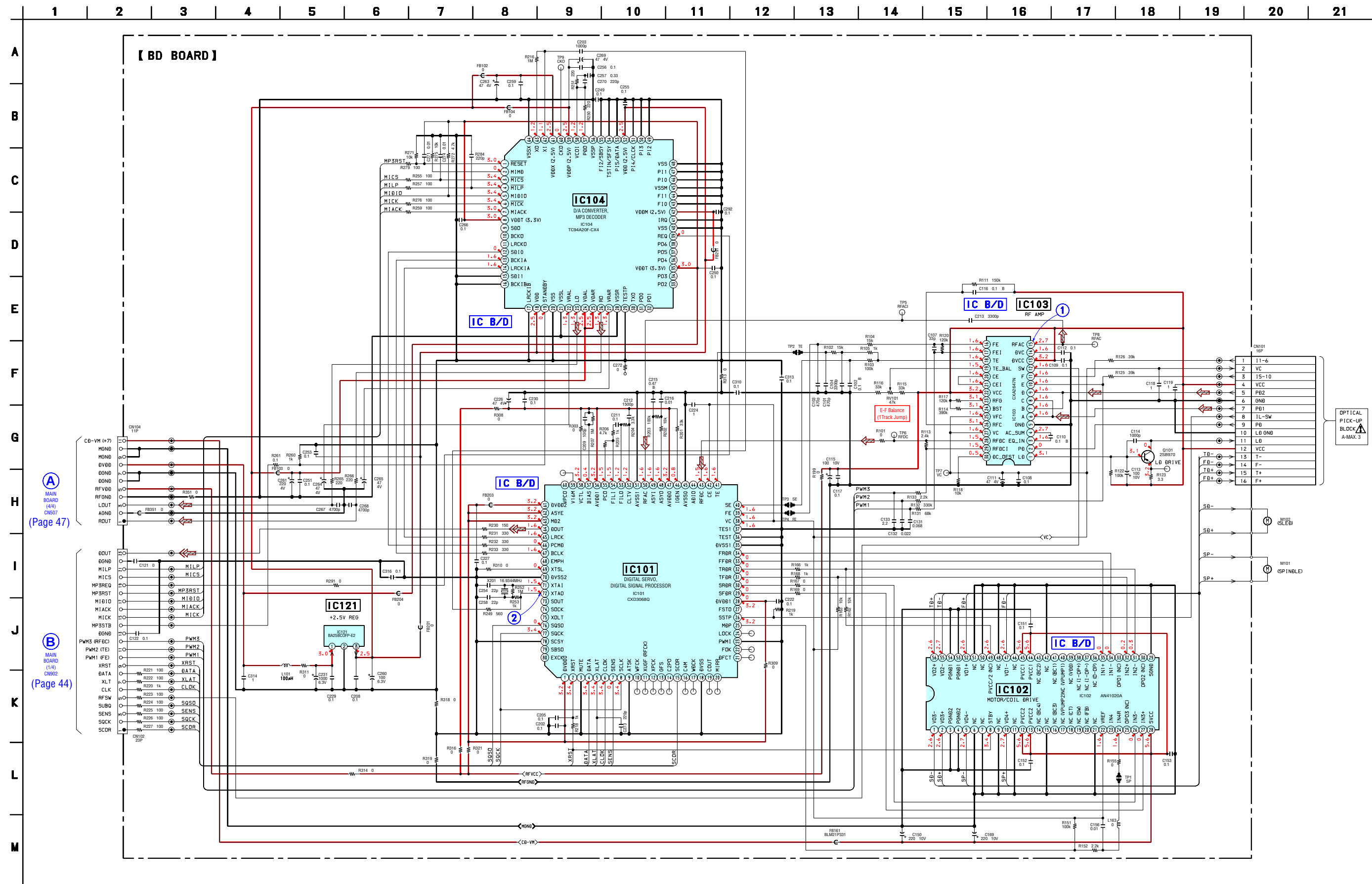
8-6. PRINTED WIRING BOARD – BD Board – • See page 35 for Circuit Boards Location. :Uses unleaded solder.

• Semiconductor Location

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

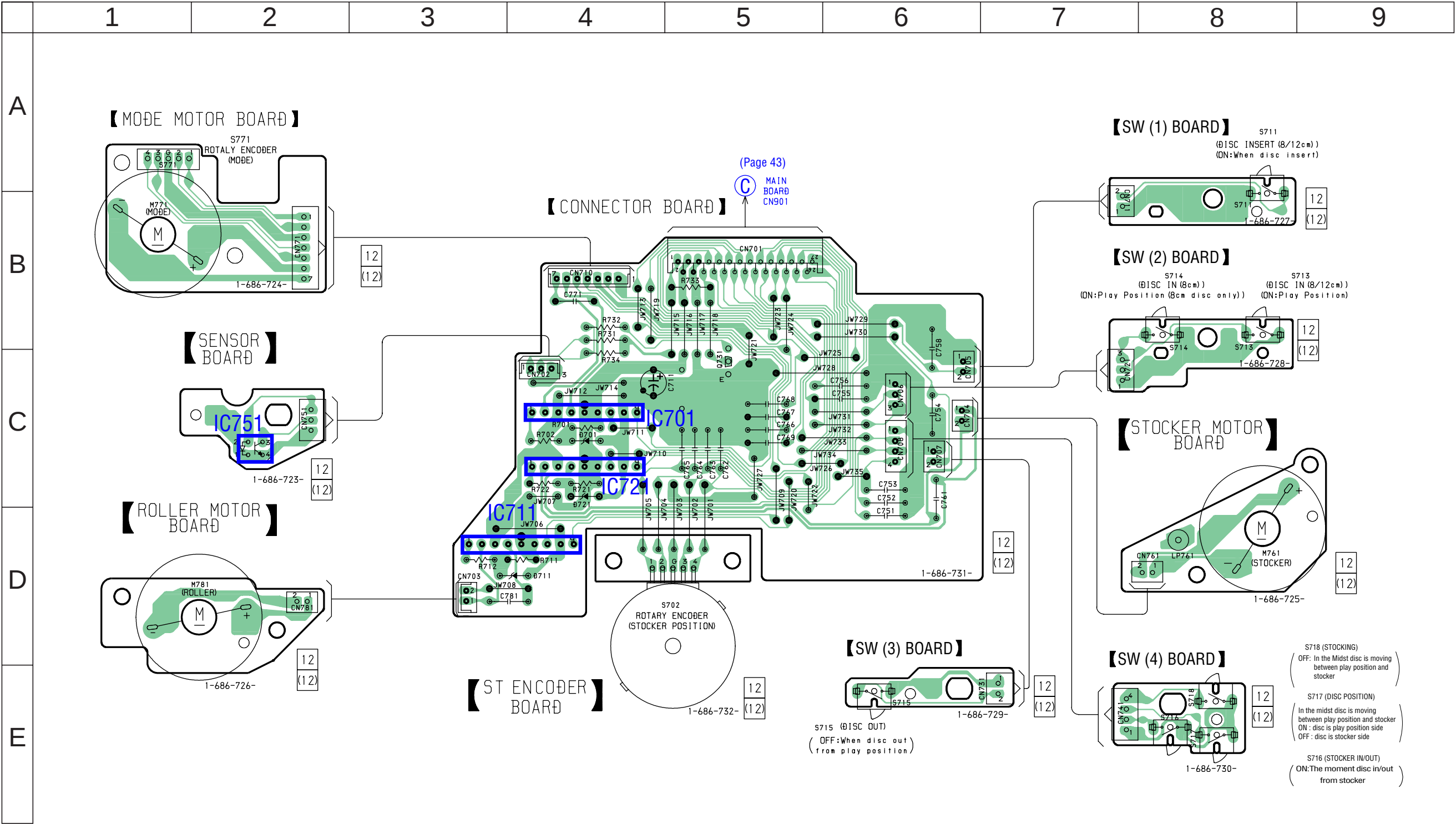


8-7. SCHEMATIC DIAGRAM – BD Board – • See page 42 for Waveforms. • See page 68 for IC Block Diagrams.



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

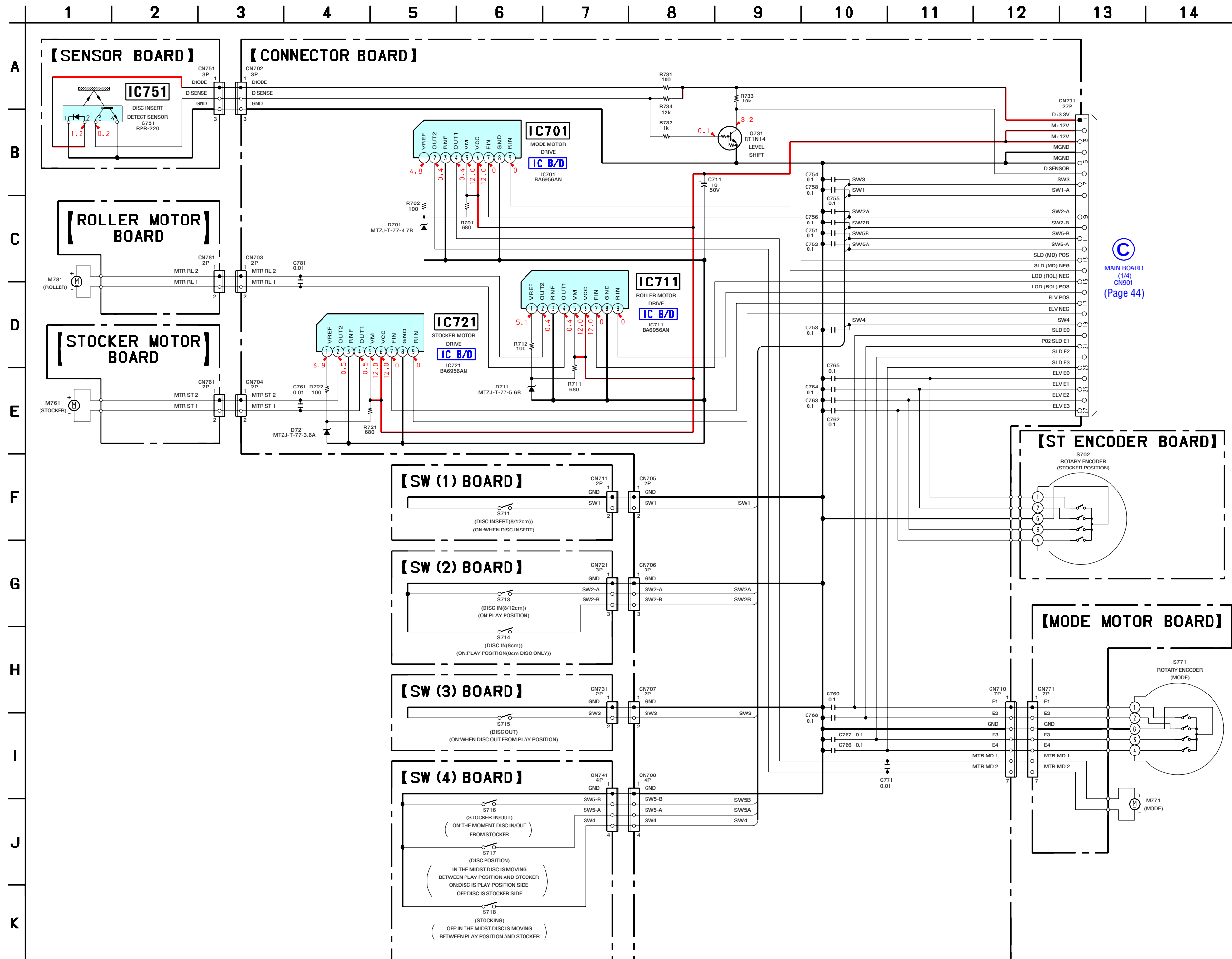
8-8. PRINTED WIRING BOARDS – CHANGER Section – • See page 35 for Circuit Boards Location. :Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location
D701	C-4
D711	C-4
D721	C-4
IC701	C-4
IC711	D-4
IC721	C-4
IC751	C-2
Q731	B-5

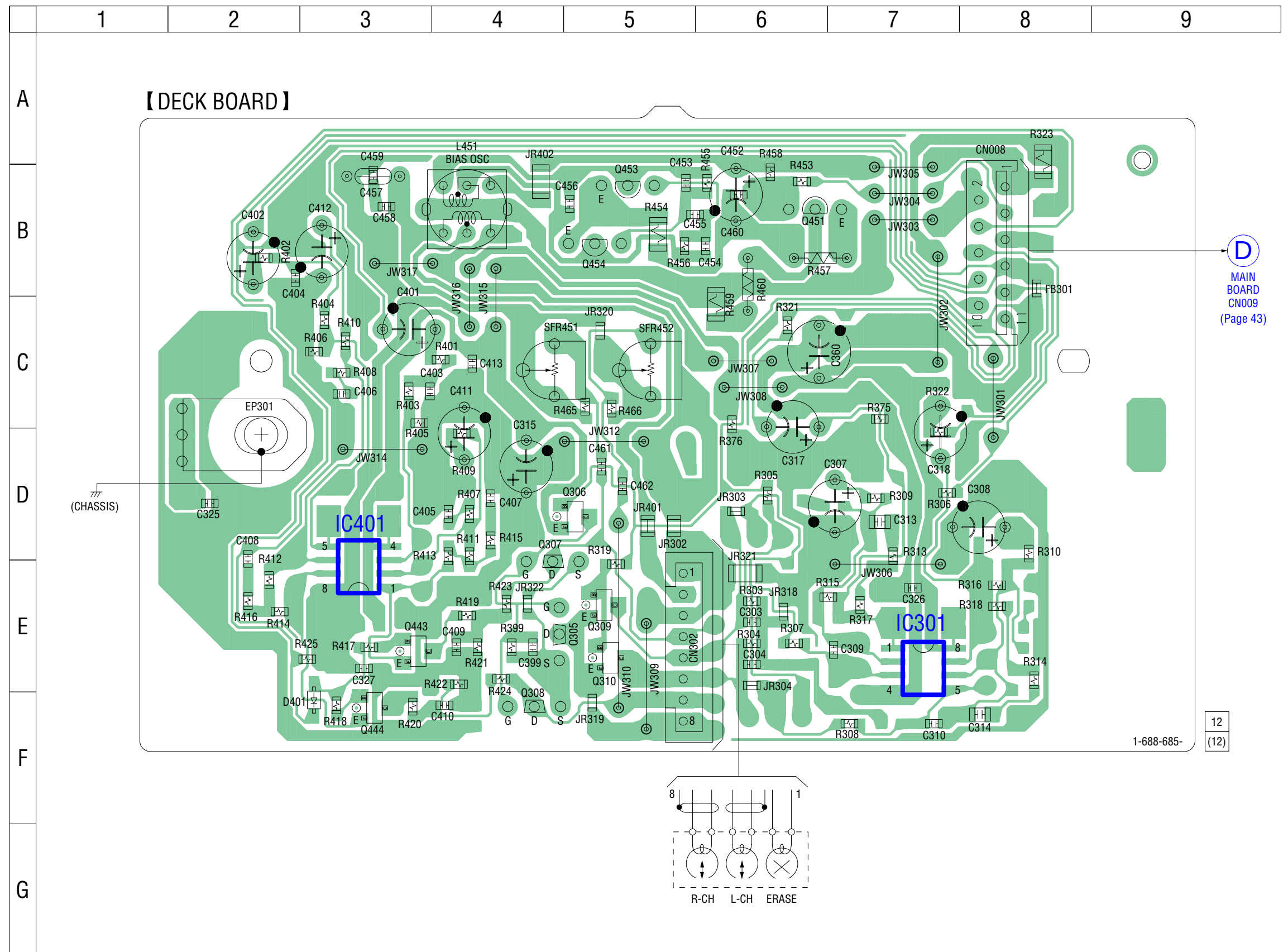
8-9. SCHEMATIC DIAGRAM – CHANGER Section – • See page 68 for IC Block Diagram.



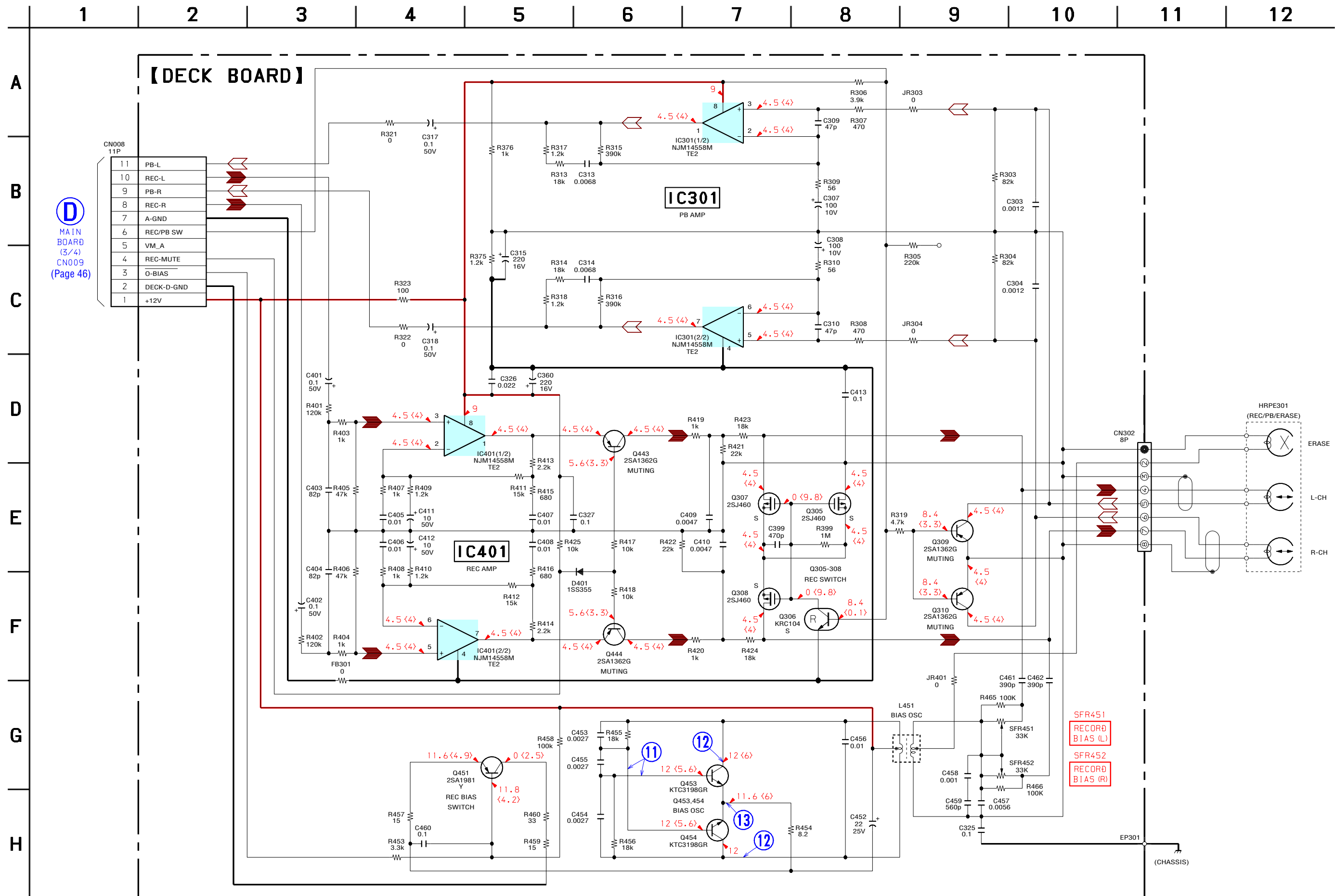
8-10. PRINTED WIRING BOARD – DECK Board (Except US model) – • See page 35 for Circuit Boards Location. :Uses unleaded solder.

- **Semiconductor Location**

Ref. No.	Location
D401	F-3
IC301	E-7
IC401	E-3
Q305	E-4
Q306	D-5
Q307	E-4
Q308	F-4
Q309	E-5
Q310	E-5
Q443	E-3
Q444	F-3
Q451	B-6
Q453	B-5
Q454	B-5

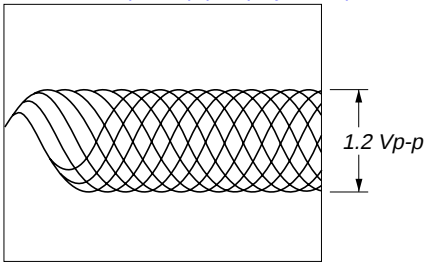


8-11. SCHEMATIC DIAGRAM – DECK Board (Except US model) – • See page 42 for Waveforms.

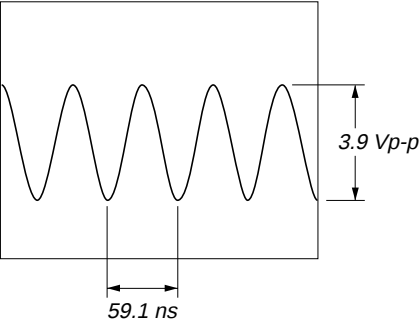


• Waveforms
– BD Board –

① IC103 ⑮ (RFAC) (CD play mode)

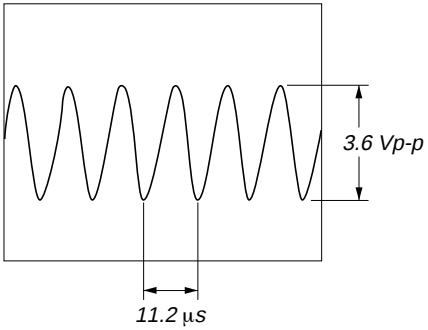


② IC101 ⑦② (XTAO)

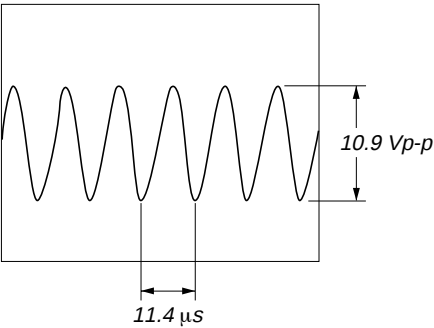


– DECK Board –

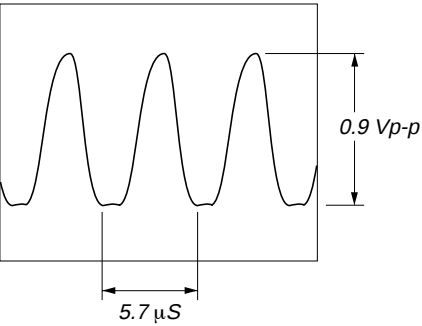
① Q453, 454 Base (REC mode)



⑫ Q453, 454 Collector (REC mode)

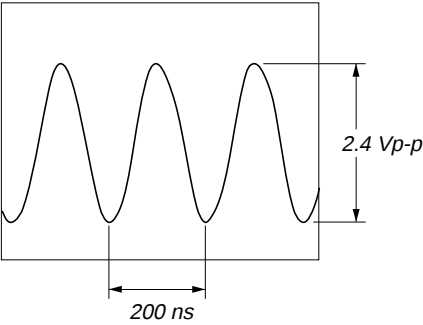


⑬ Q453, 454 Emitter (REC mode)

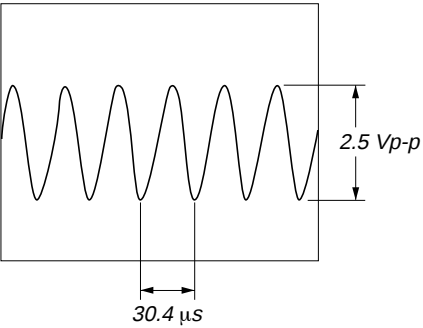


– MAIN Board –

④① IC901 ⑮ (X2)

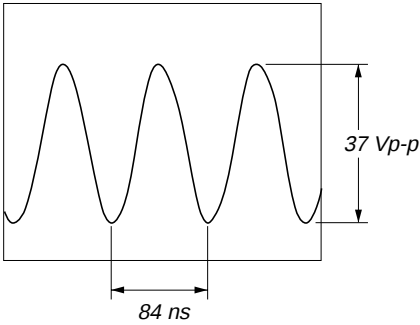


④② IC901 ⑰ (XT2)



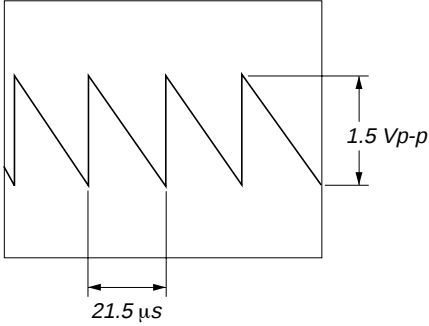
– USB AUX Board –

④③ IC700 ② (XTO) (USB mode)

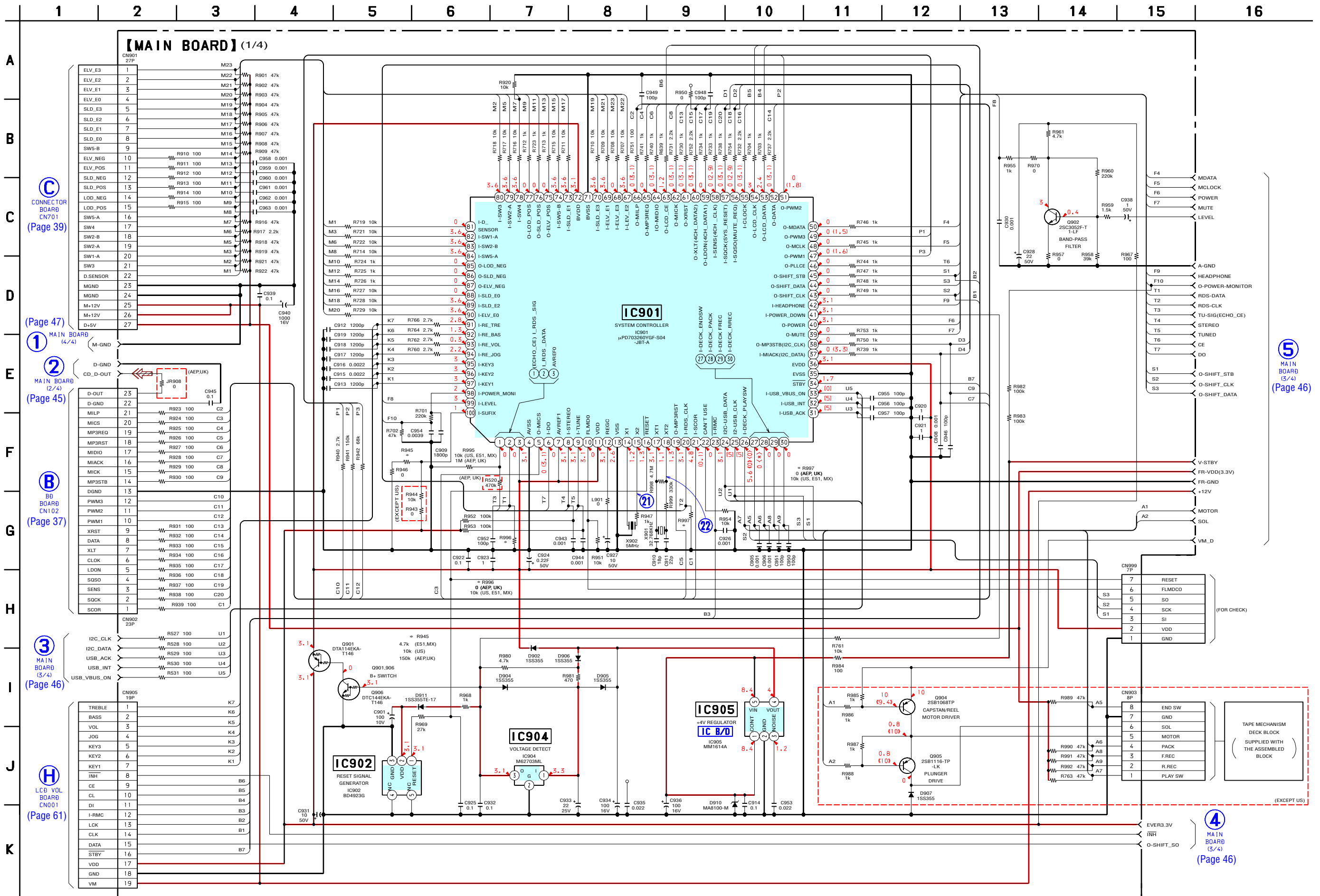


– LCD VOL Board –

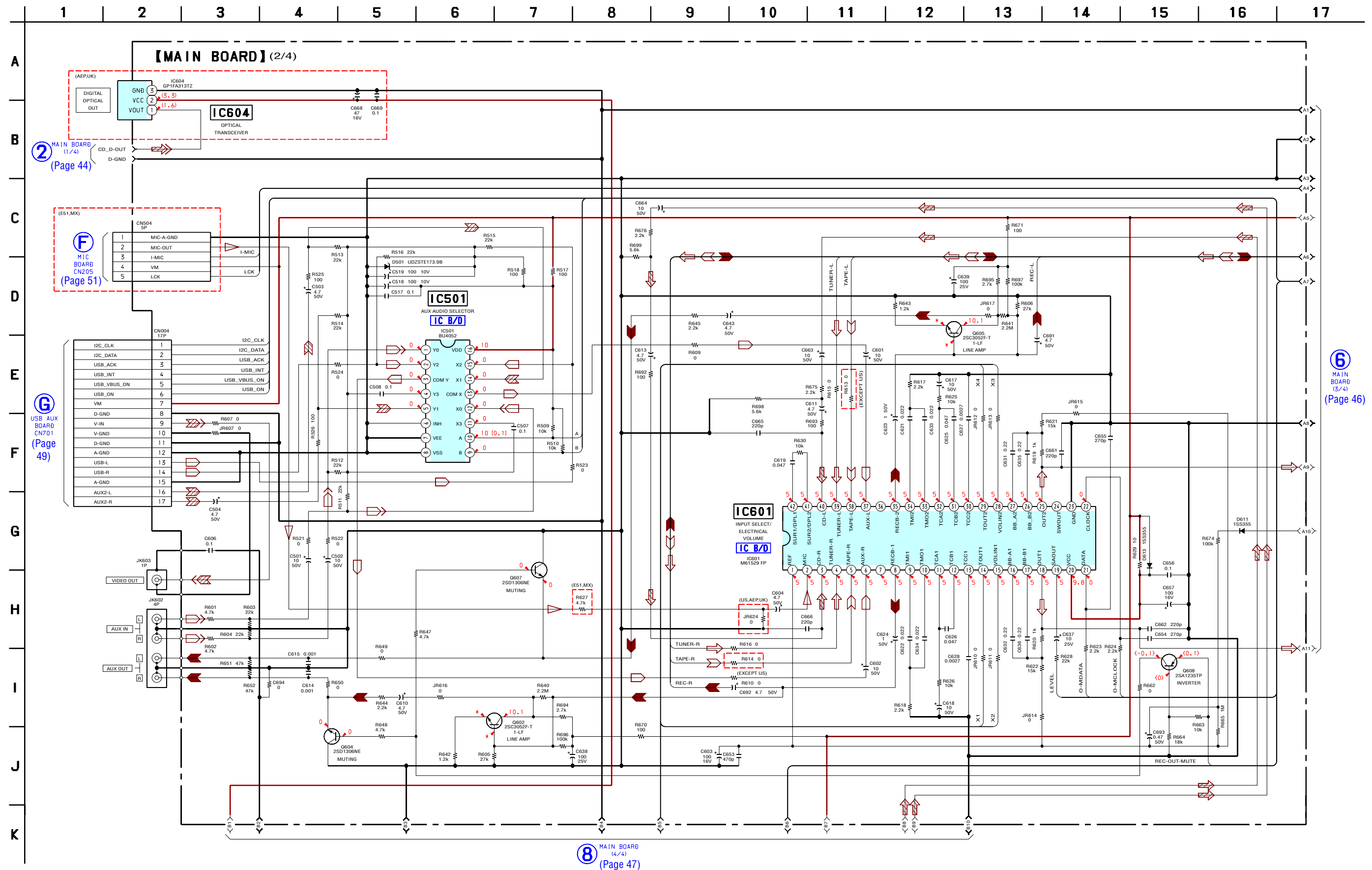
④④ IC001 ⑦⑥ (OSC)



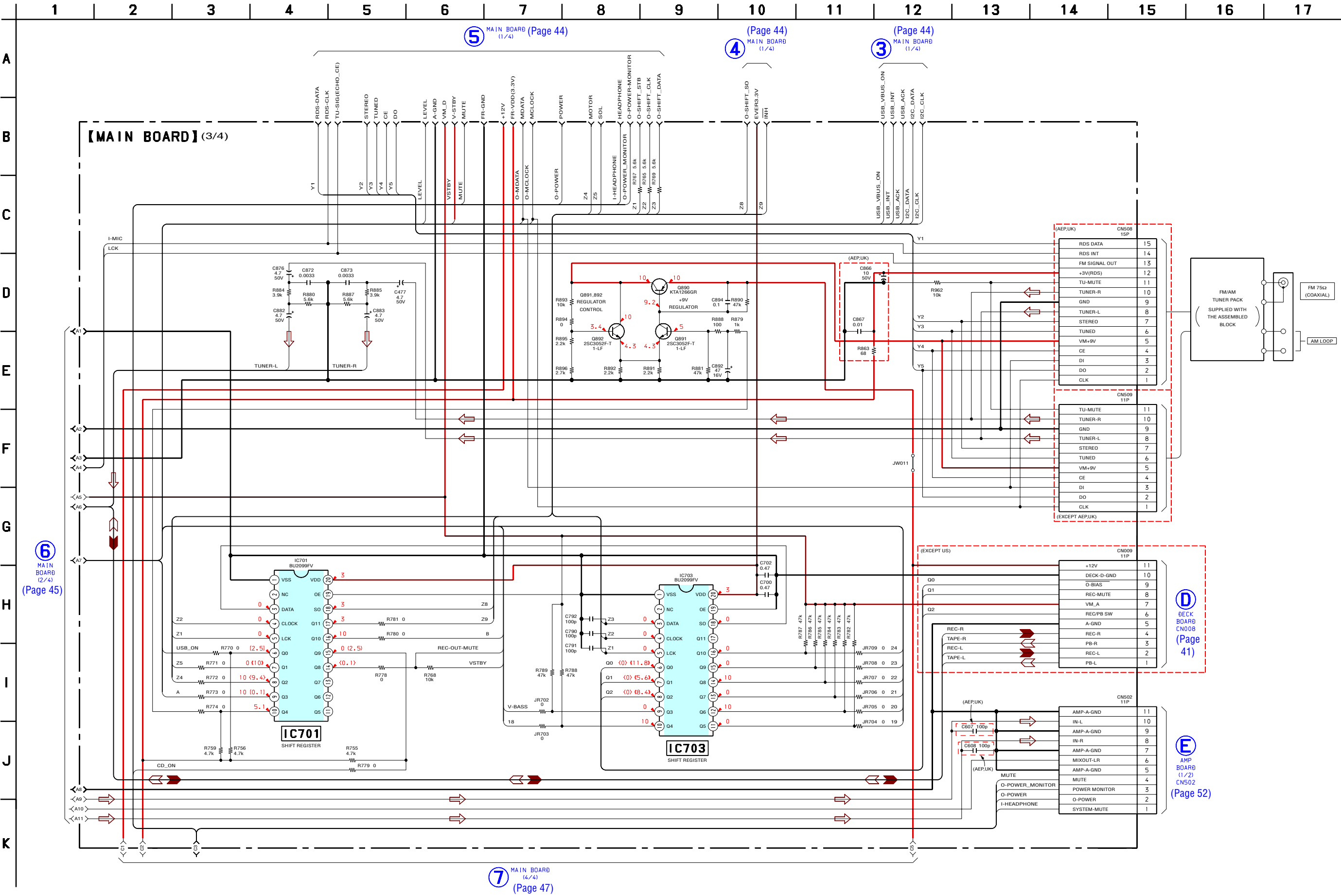
8-13. SCHEMATIC DIAGRAM – MAIN Board (1/4) – • See page 42 for Waveforms. • See page 68 for IC Block Diagram.



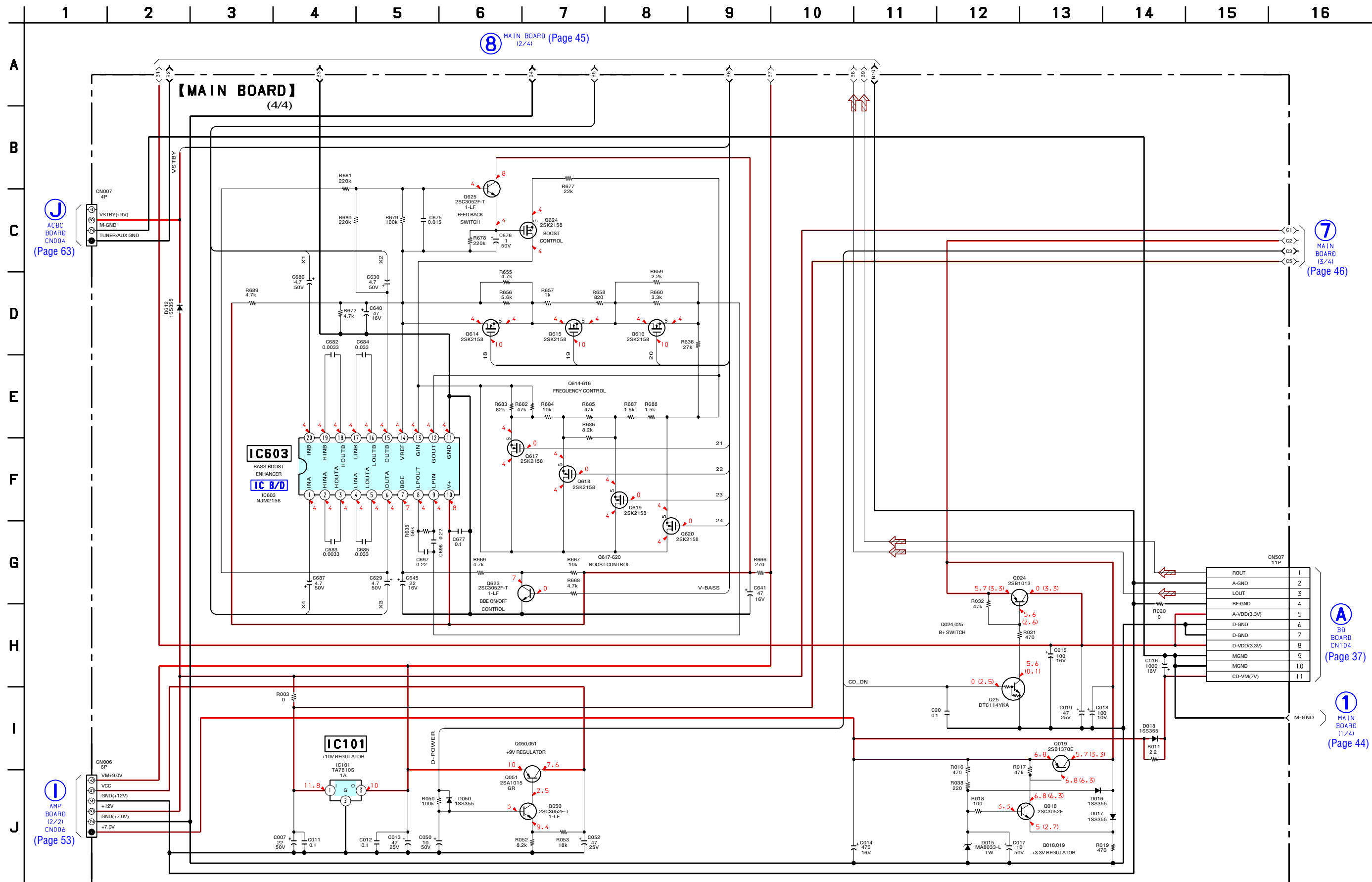
8-14. SCHEMATIC DIAGRAM – MAIN Board (2/4) –



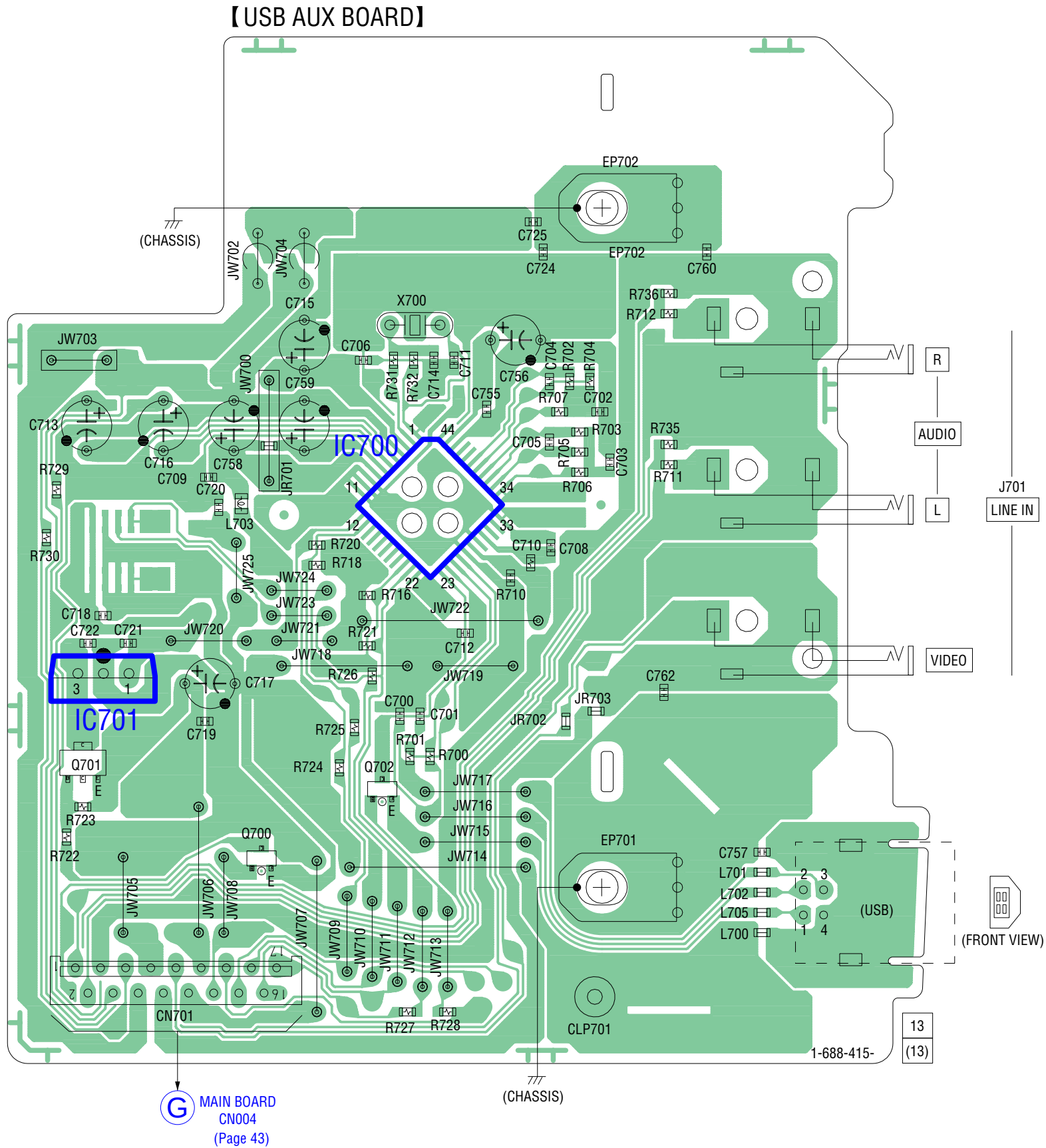
8-15. SCHEMATIC DIAGRAM – MAIN Board (3/4) – • See page 68 for IC Block Diagrams.



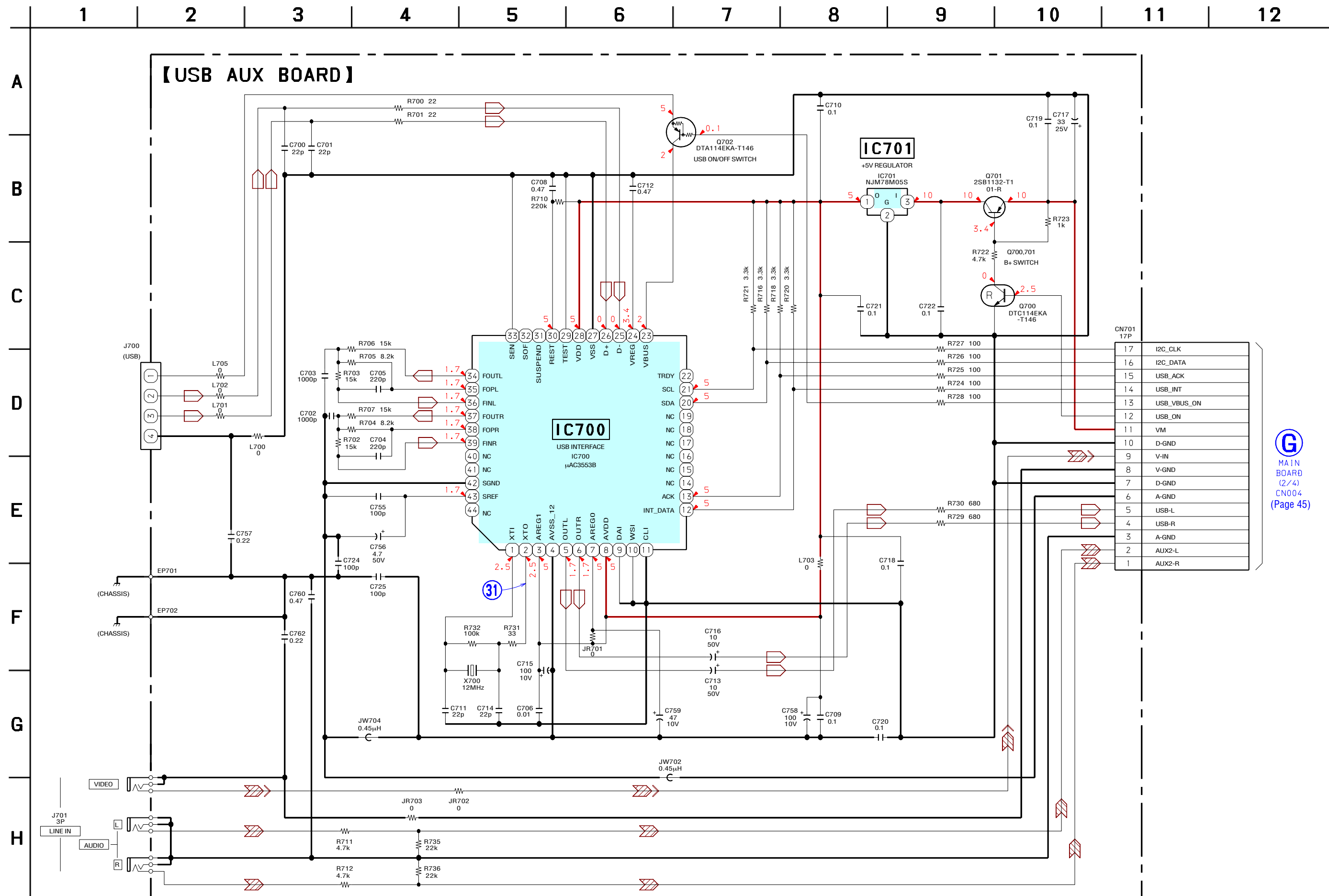
8-16. SCHEMATIC DIAGRAM – MAIN Board (4/4) – • See page 68 for IC Block Diagram.



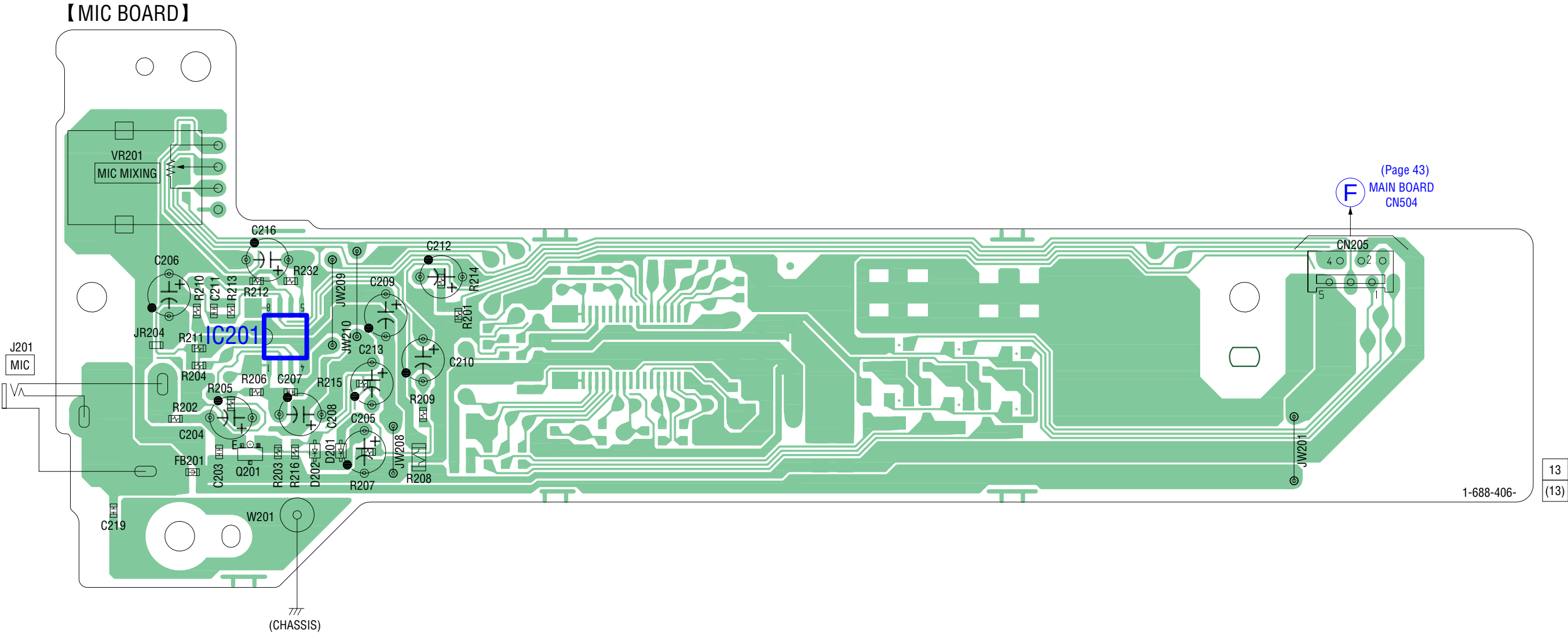
8-17. PRINTED WIRING BOARD – USB AUX Board – • See page 35 for Circuit Boards Location.  :Uses unleaded solder.



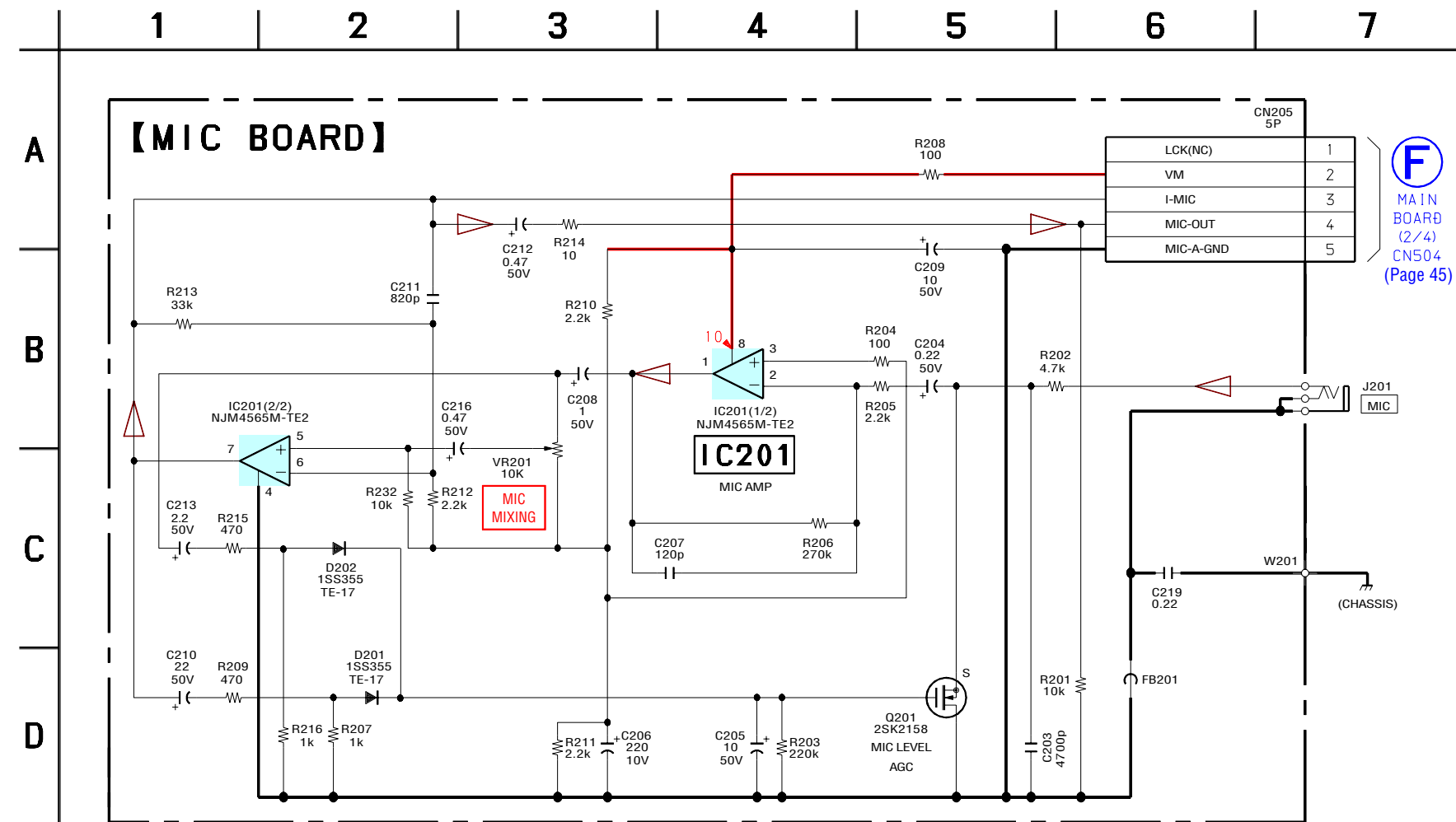
8-18. SCHEMATIC DIAGRAM – USB AUX Board – • See page 42 for Waveform.



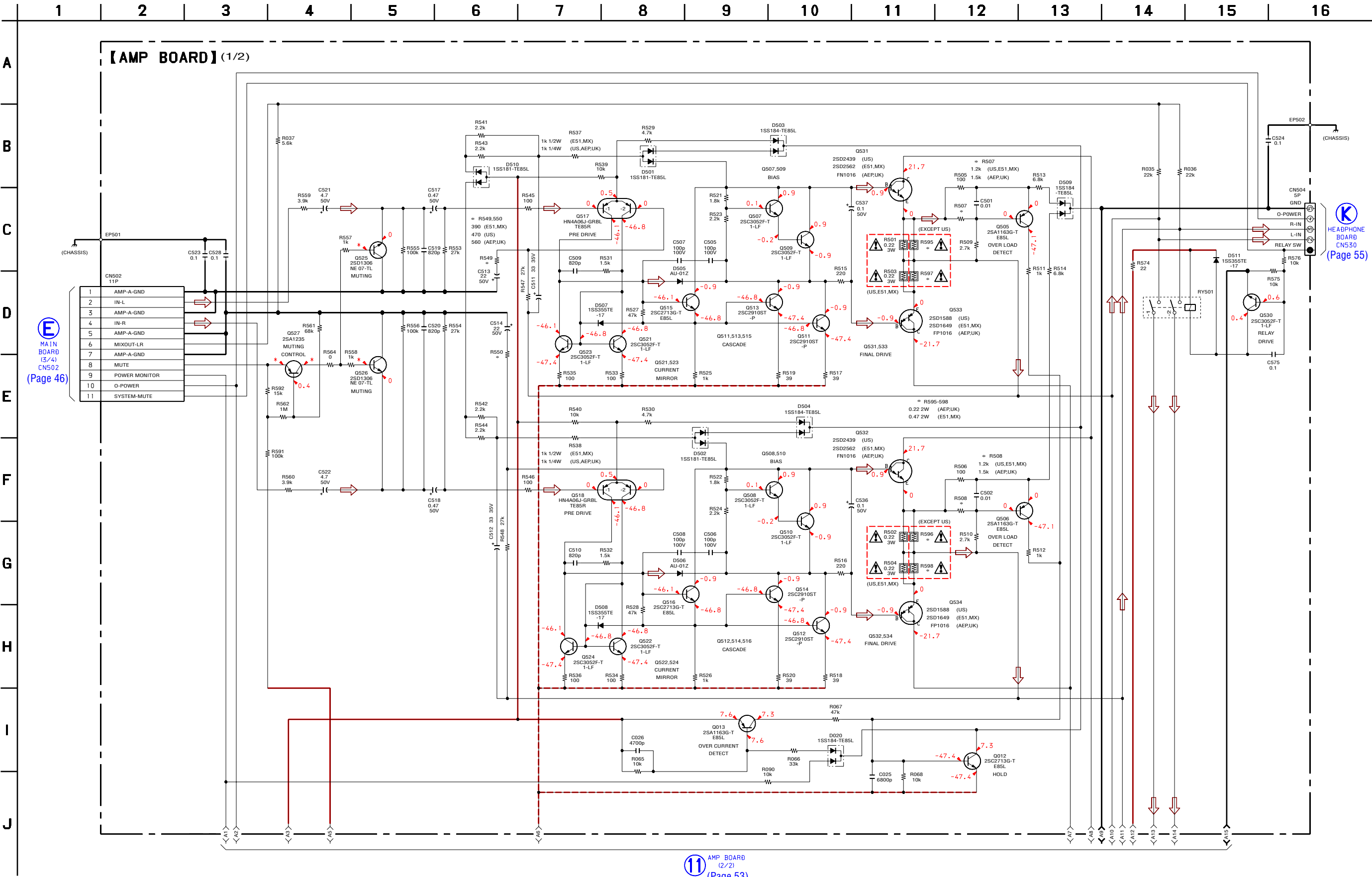
8-19. PRINTED WIRING BOARD – MIC Board (Chilean, Peruvian and Mexican models) – • See page 35 for Circuit Boards Location.  :Uses unleaded solder.



8-20. SCHEMATIC DIAGRAM – MIC Board (Chilean, Peruvian and Mexican models) –



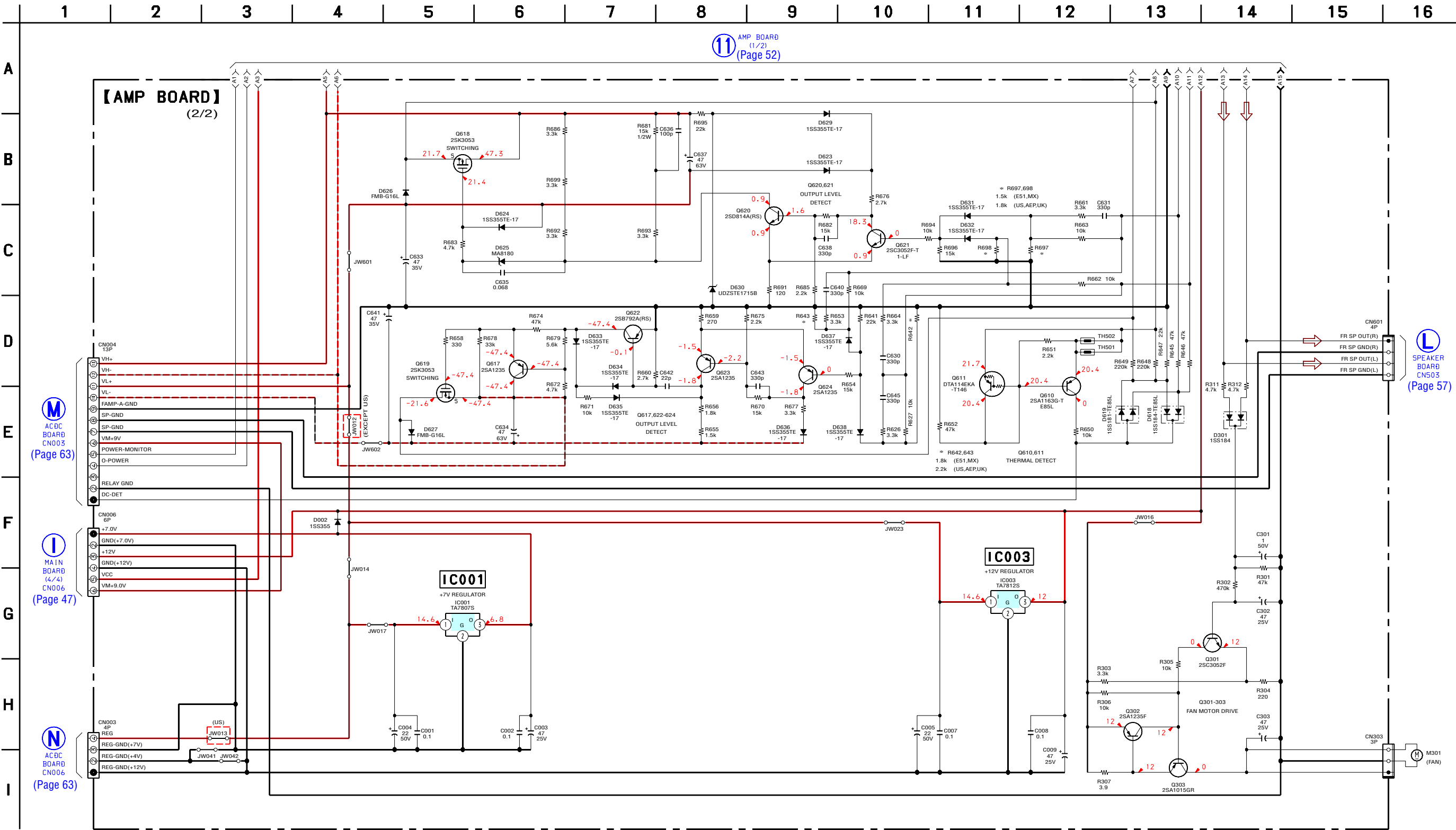
8-21. SCHEMATIC DIAGRAM – AMP Board (1/2) –



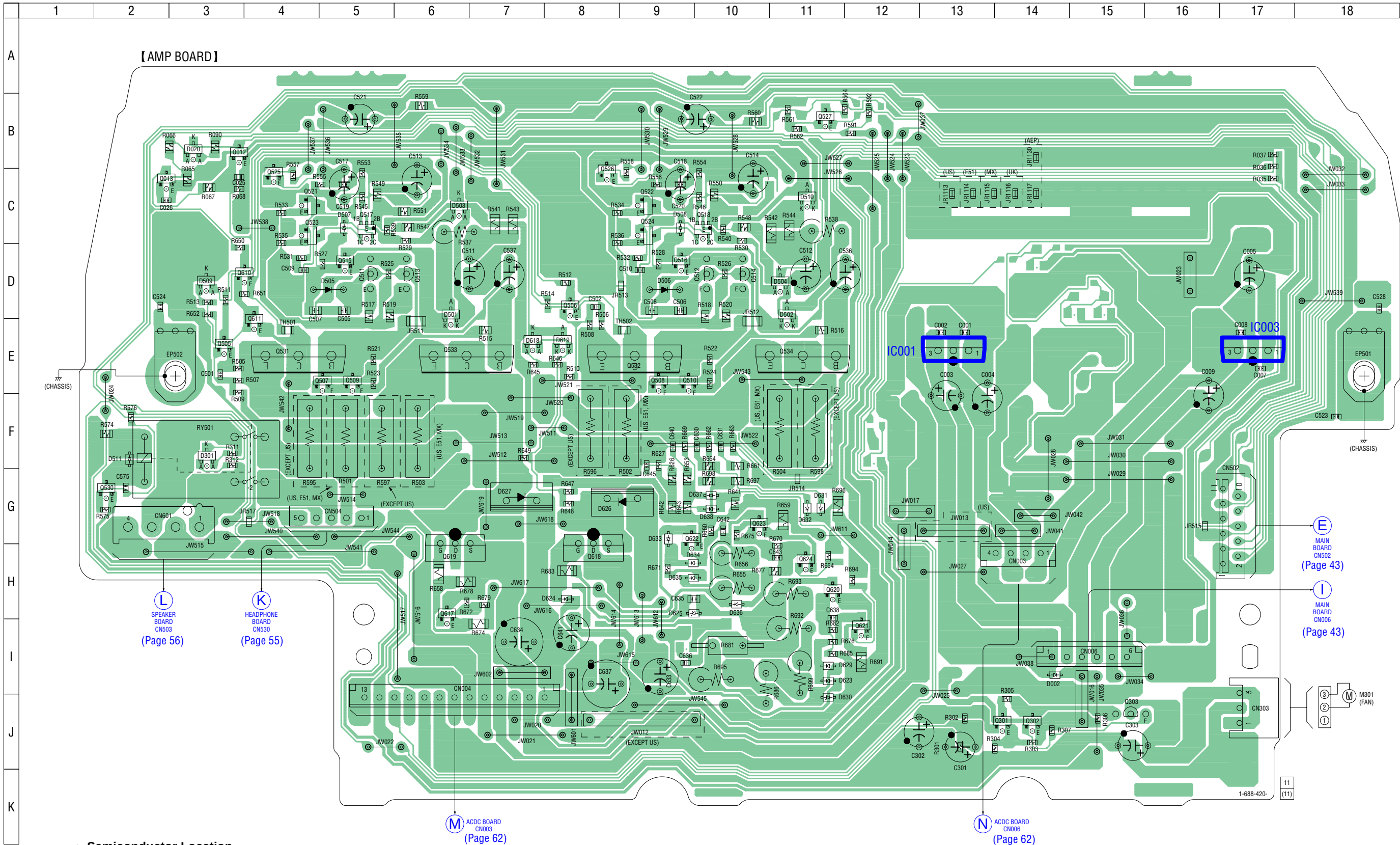
11 AMP BOARD (2/2) (Page 53)

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

8-22. SCHEMATIC DIAGRAM – AMP Board (2/2) –



8-23. PRINTED WIRING BOARD – AMP Board – • See page 35 for Circuit Boards Location.  :Uses unleaded solder.

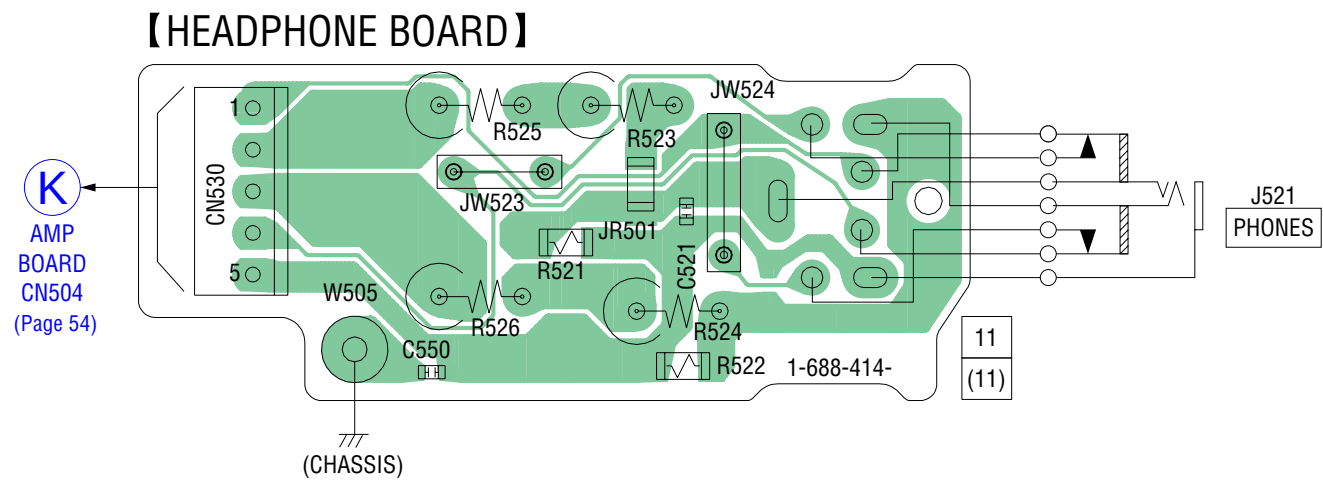


• Semiconductor Location

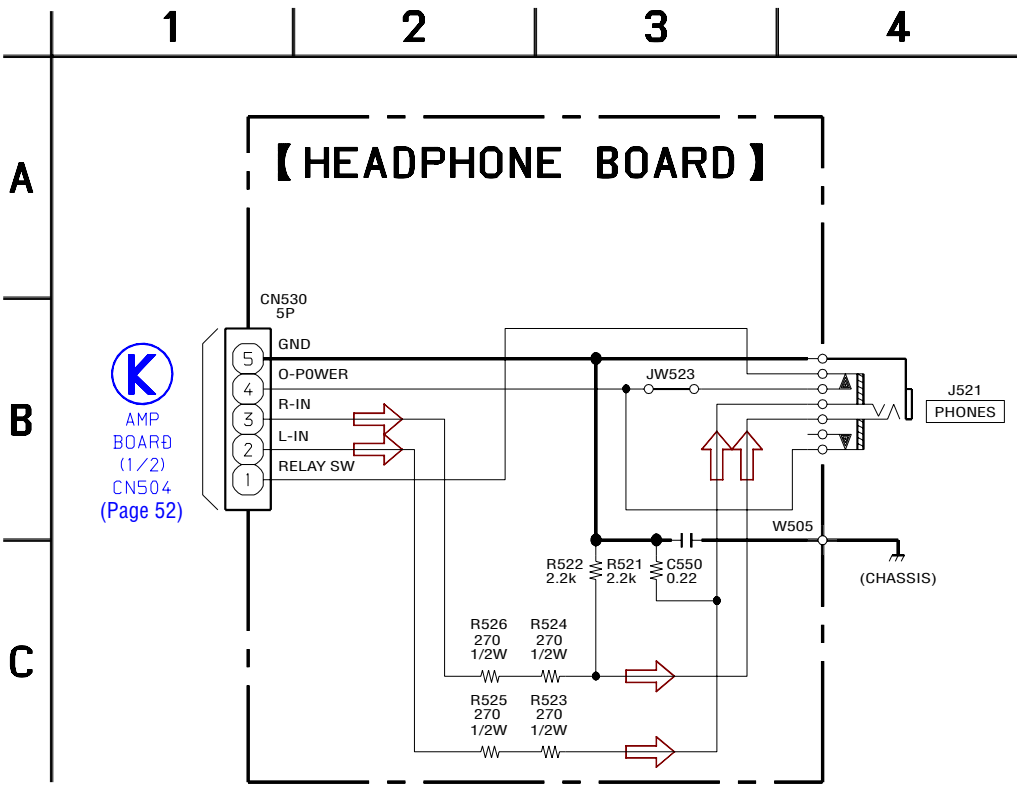
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D002	I-14	D505	D-5	D618	E-7	D629	I-11	D636	H-10	Q012	B-3	Q507	E-5	Q514	D-10	Q523	C-4	Q532	E-9
D020	B-3	D506	D-9	D619	E-8	D630	J-11	D637	G-10	Q013	C-2	Q508	E-9	Q515	D-5	Q524	C-9	Q533	E-6
D301	F-3	D507	C-5	D623	I-11	D631	G-11	D638	G-10	Q301	J-14	Q509	E-5	Q516	D-9	Q525	C-4	Q534	E-11
D501	D-6	D508	C-9	D624	H-8	D632	G-11			Q302	J-14	Q510	E-9	Q517	C-5	Q526	C-8	Q610	D-4
D502	D-11	D509	D-3	D625	H-9	D633	G-9	IC001	E-13	Q303	J-15	Q511	D-5	Q518	C-10	Q527	B-11	Q611	E-4
D503	C-6	D510	C-11	D626	G-9	D634	H-9	IC003	E-17	Q505	E-3	Q512	D-10	Q521	C-4	Q530	G-2	Q617	H-6
D504	D-11	D511	F-2	D627	G-7	D635	H-9			Q506	D-8	Q513	D-6	Q522	C-9	Q531	E-4	Q618	H-8

8-24. PRINTED WIRING BOARD – HEADPHONE Board – • See page 35 for Circuit Boards Location.

 :Uses unleaded solder.

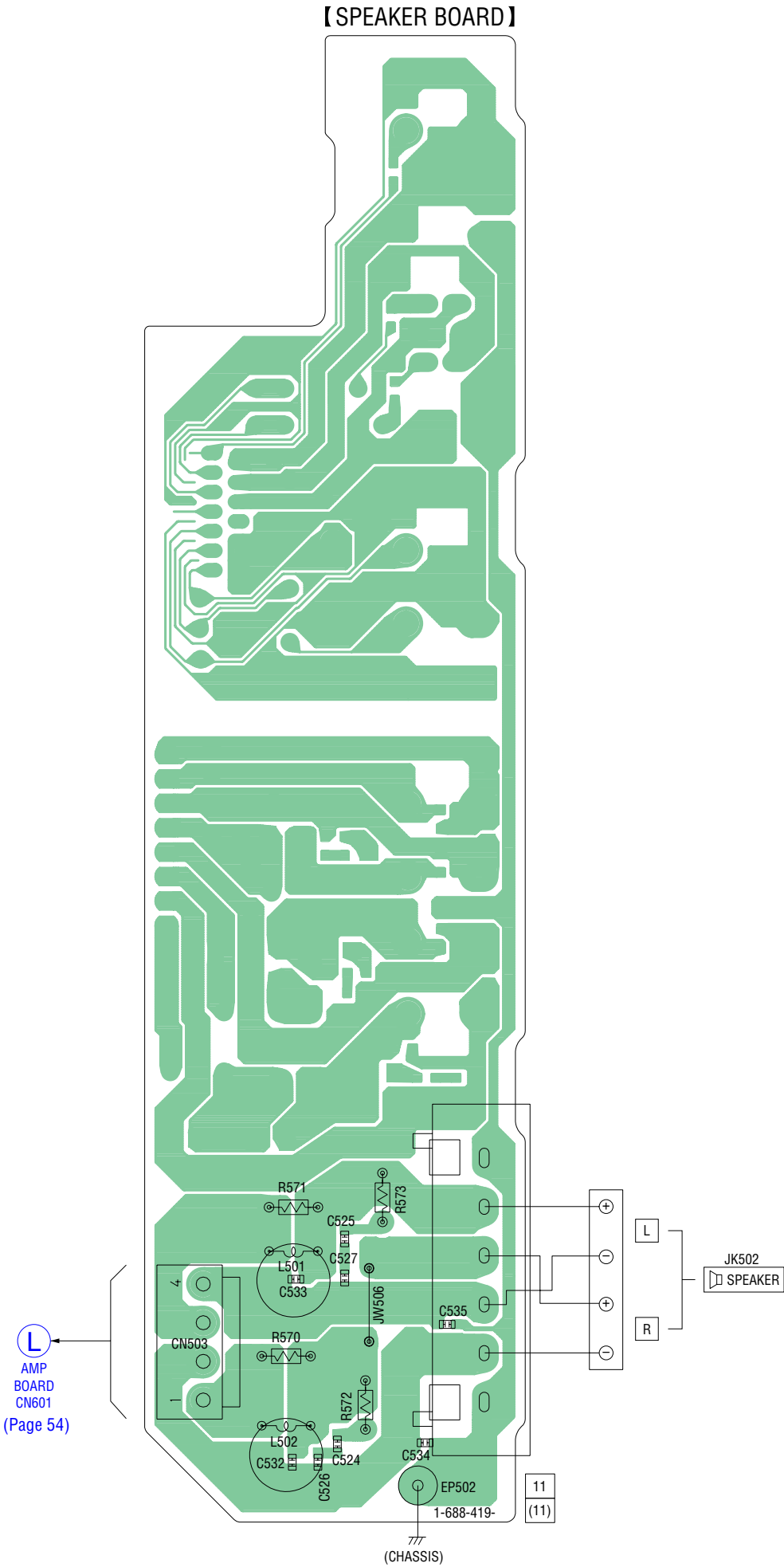


8-25. SCHEMATIC DIAGRAM – HEADPHONE Board –

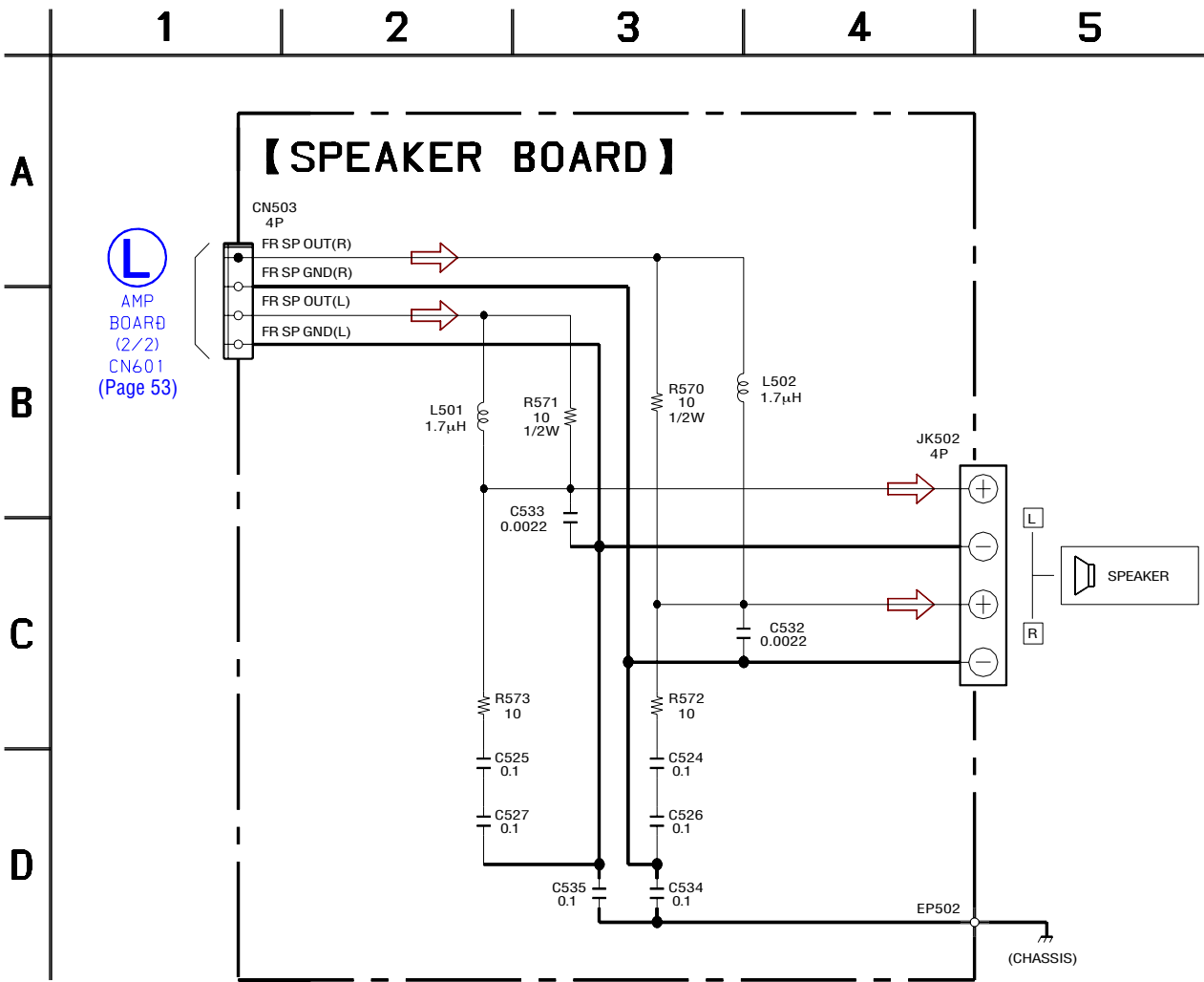


8-26. PRINTED WIRING BOARD – SPEAKER Board – • See page 35 for Circuit Boards Location.

 :Uses unleaded solder.



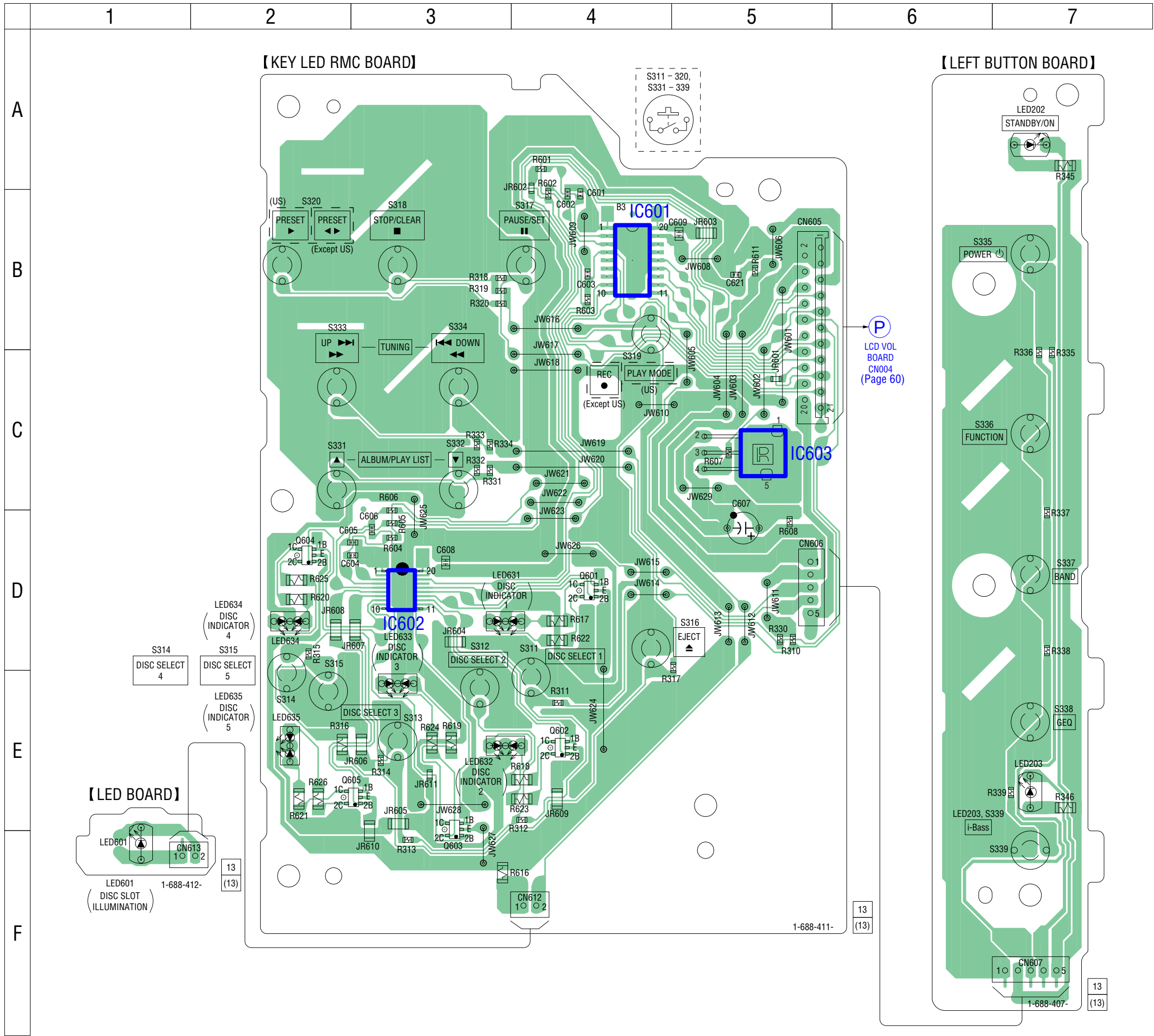
8-27. SCHEMATIC DIAGRAM – SPEAKER Board –



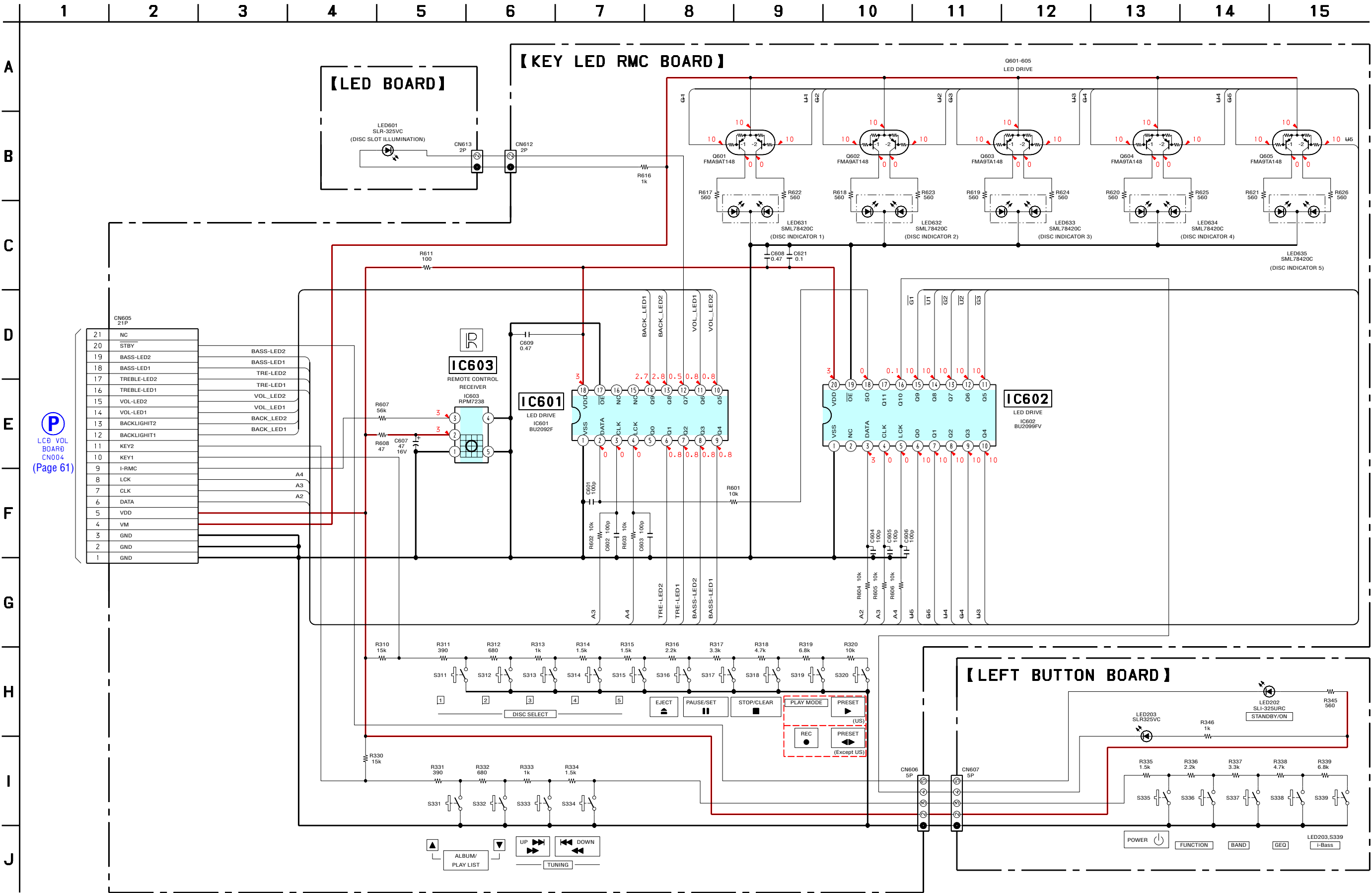
8-28. PRINTED WIRING BOARDS – KEY Section – • See page 35 for Circuit Boards Location.  :Uses unleaded solder.

• Semiconductor Location

Ref. No.	Location
IC601	B-4
IC602	D-3
IC603	C-5
LED202	A-7
LED203	E-7
LED601	F-1
LED631	D-3
LED632	E-3
LED633	E-3
LED634	D-2
LED635	E-2
Q601	D-4
Q602	E-4
Q603	E-3
Q604	D-2
Q605	E-3



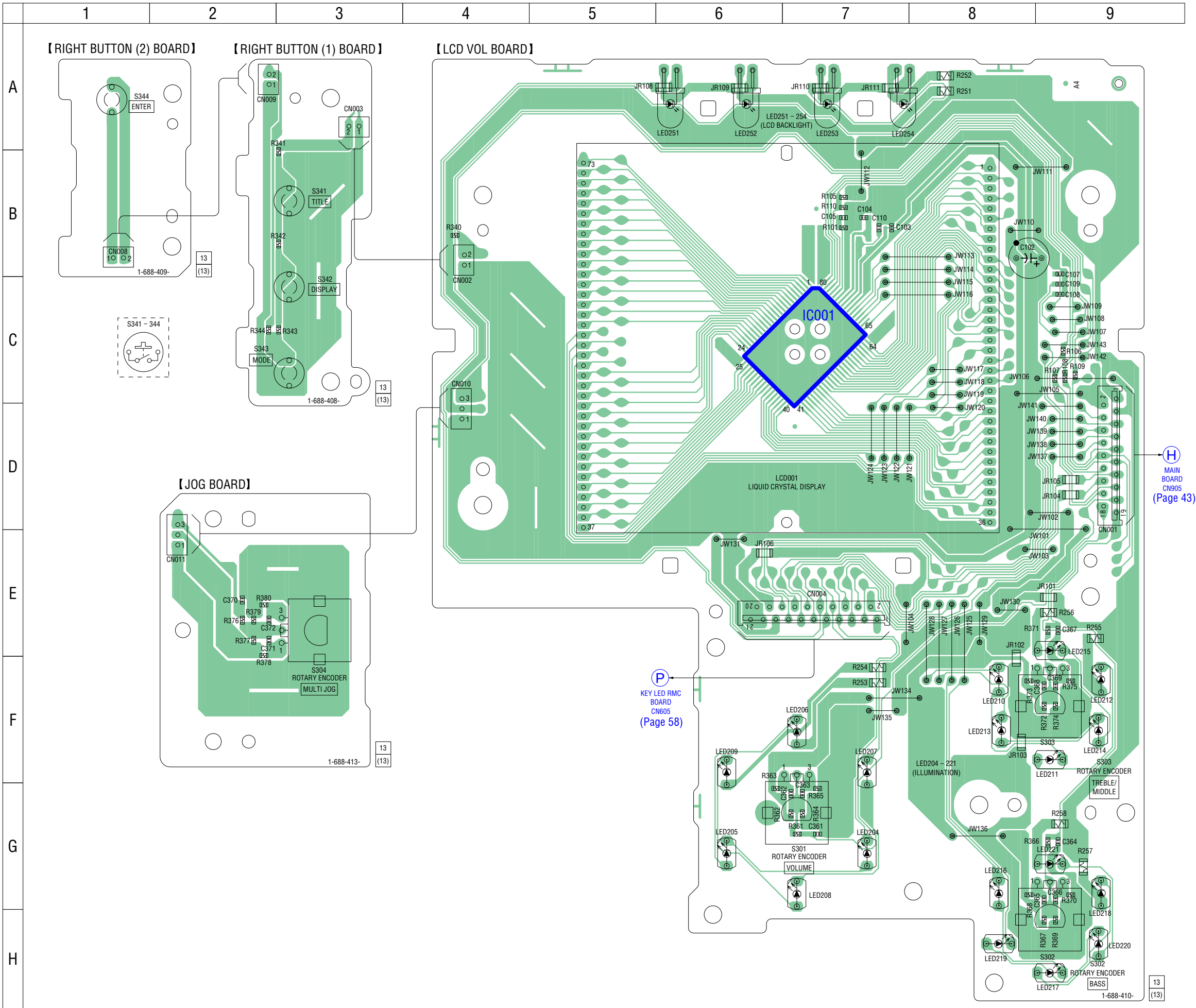
8-29. SCHEMATIC DIAGRAM – KEY Section – • See page 42 for Waveform.



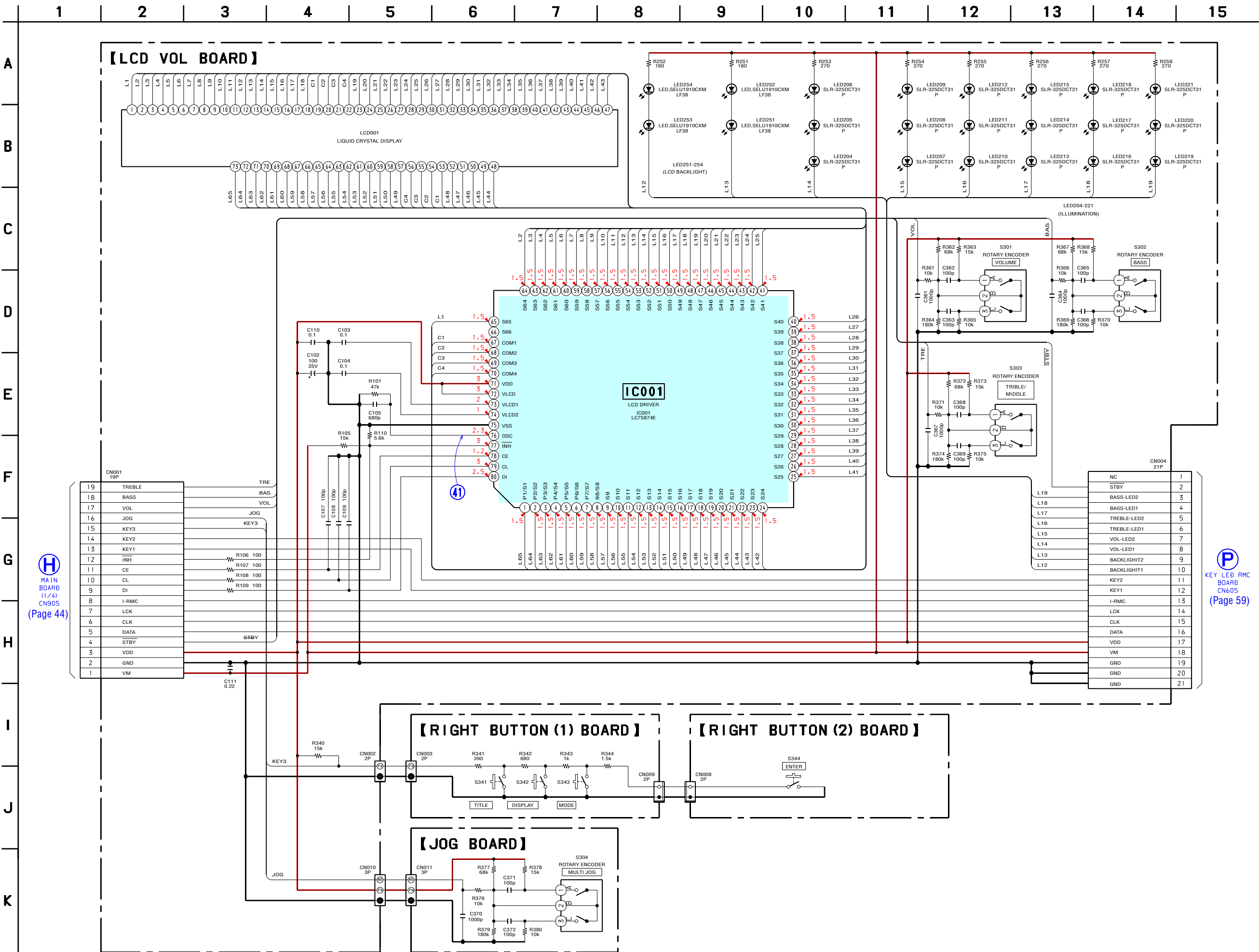
8-30. PRINTED WIRING BOARDS – LCD Section – • See page 35 for Circuit Boards Location. :Uses unleaded solder.

• Semiconductor Location

Ref. No.	Location
IC001	C-7
LED204	G-7
LED205	G-6
LED206	F-7
LED207	F-7
LED208	G-7
LED209	F-6
LED210	F-8
LED211	F-9
LED212	F-9
LED213	F-8
LED214	F-9
LED215	E-9
LED216	G-8
LED217	H-9
LED218	G-9
LED219	H-8
LED220	H-9
LED221	G-9
LED251	A-6
LED252	A-6
LED253	A-7
LED254	A-7



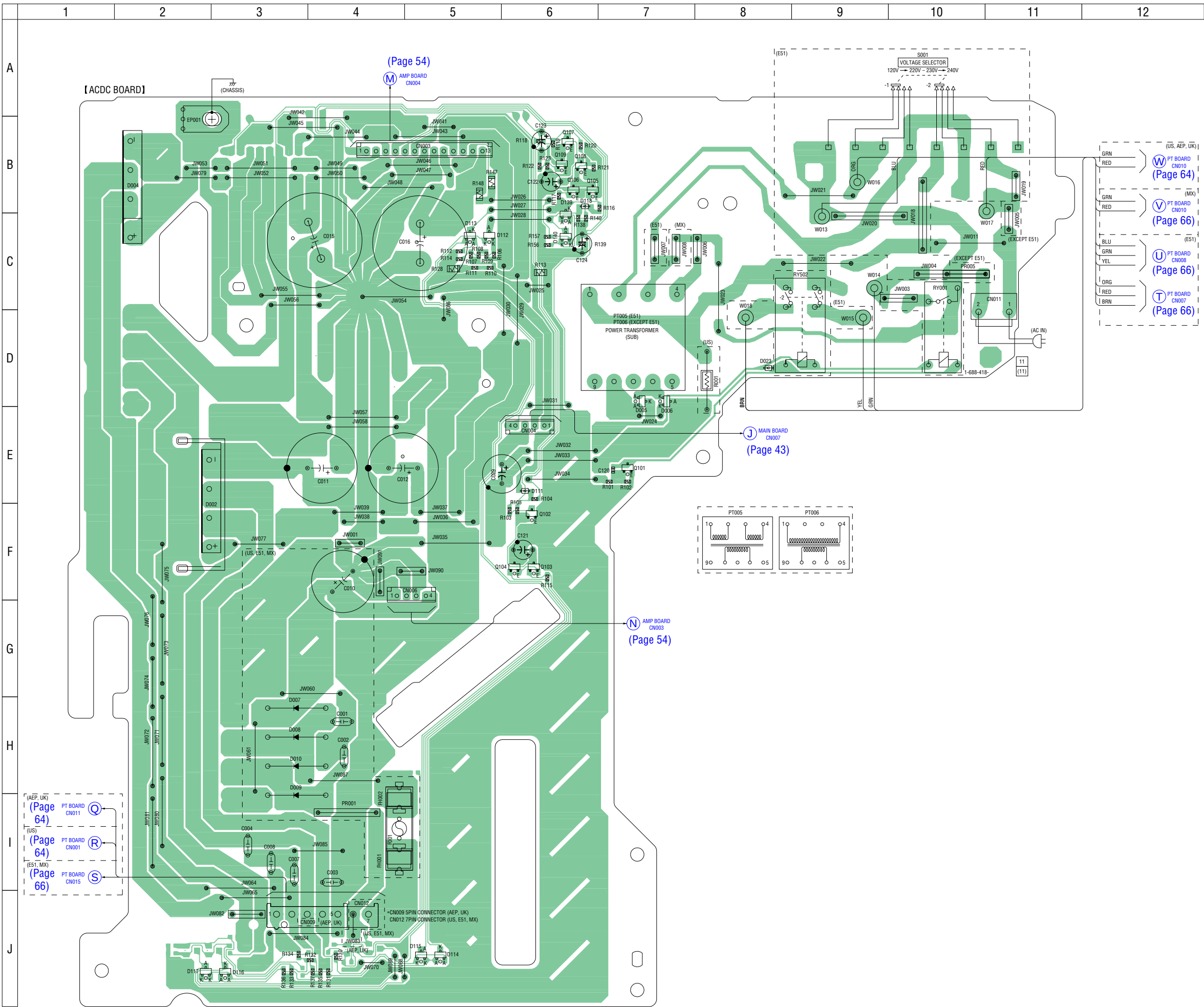
8-31. SCHEMATIC DIAGRAM – LCD Section –

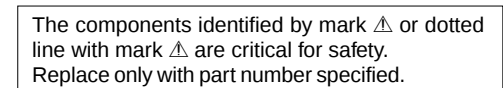


8-32. PRINTED WIRING BOARD – ACDC Board – • See page 35 for Circuit Boards Location. :Uses unleaded solder.

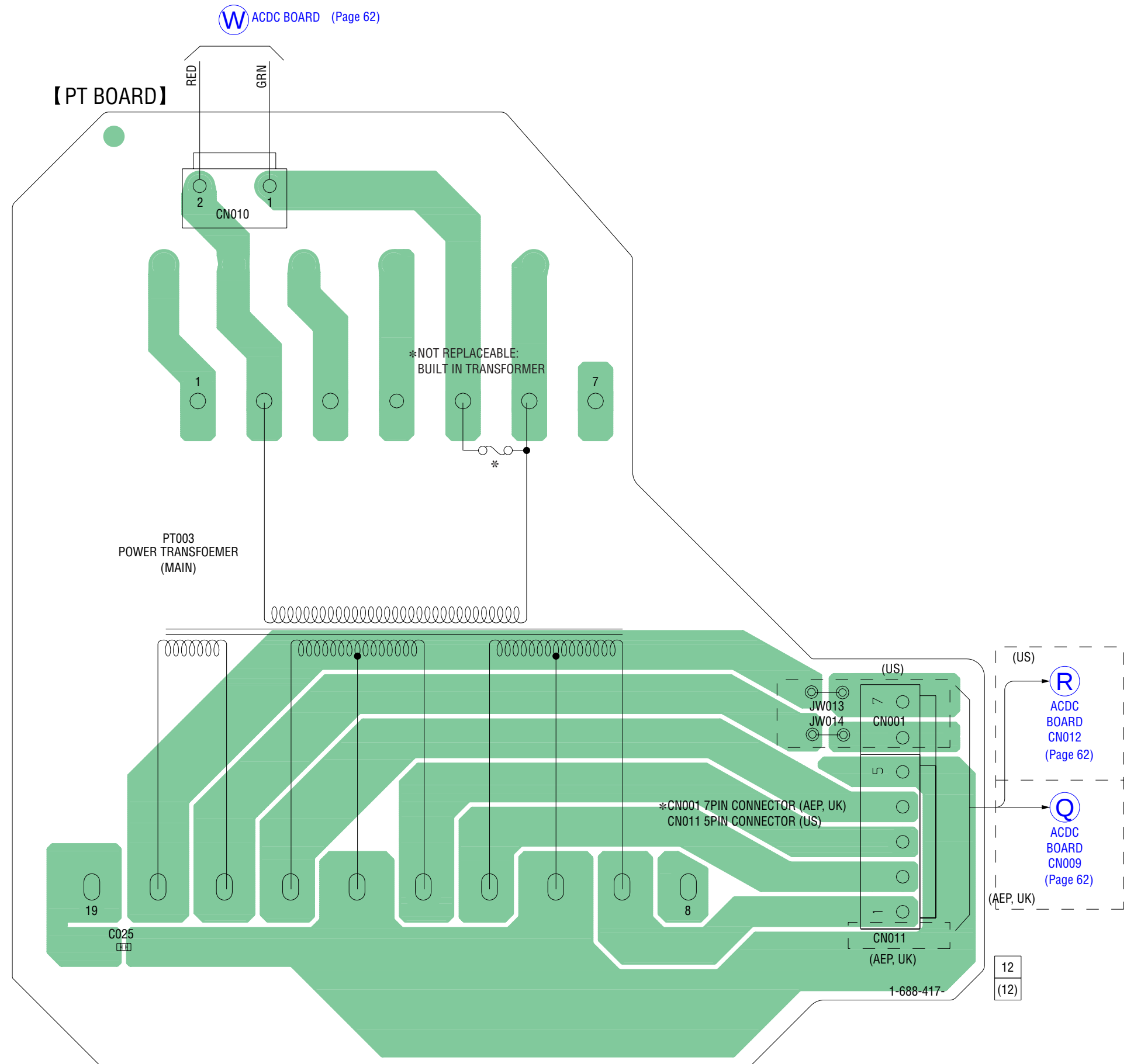
• Semiconductor Location

Ref. No.	Location
D002	E-3
D004	B-2
D005	D-7
D006	D-7
D007	H-3
D008	H-3
D009	I-3
D010	H-3
D023	D-8
D111	E-6
D112	C-5
D113	C-5
D114	J-5
D115	J-5
D116	J-3
D117	J-2
D118	B-6
D139	C-6
D140	C-6
Q101	E-7
Q102	F-6
Q103	F-6
Q104	F-6
Q105	B-6
Q106	B-6
Q107	B-6
Q108	B-6
Q109	B-6

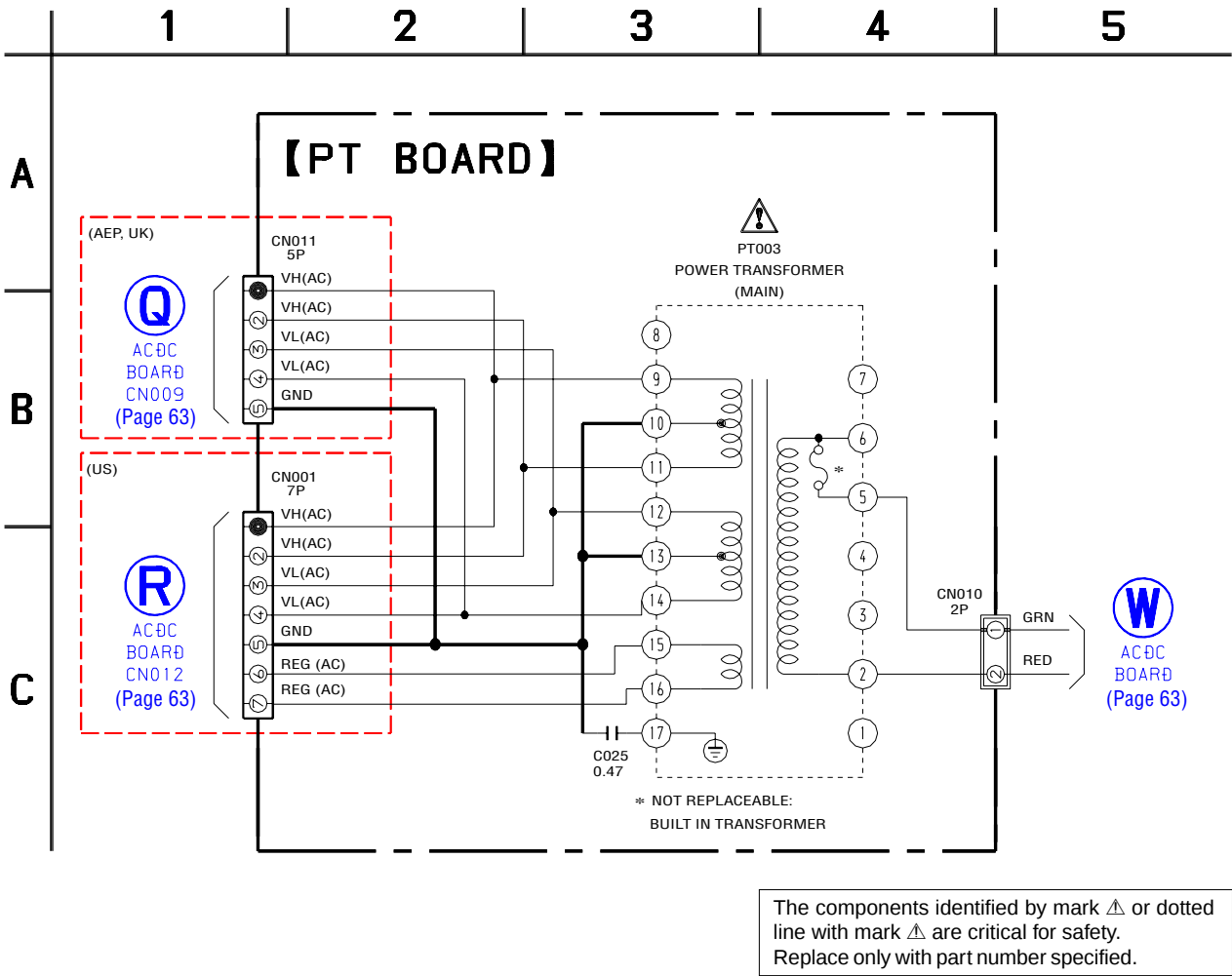




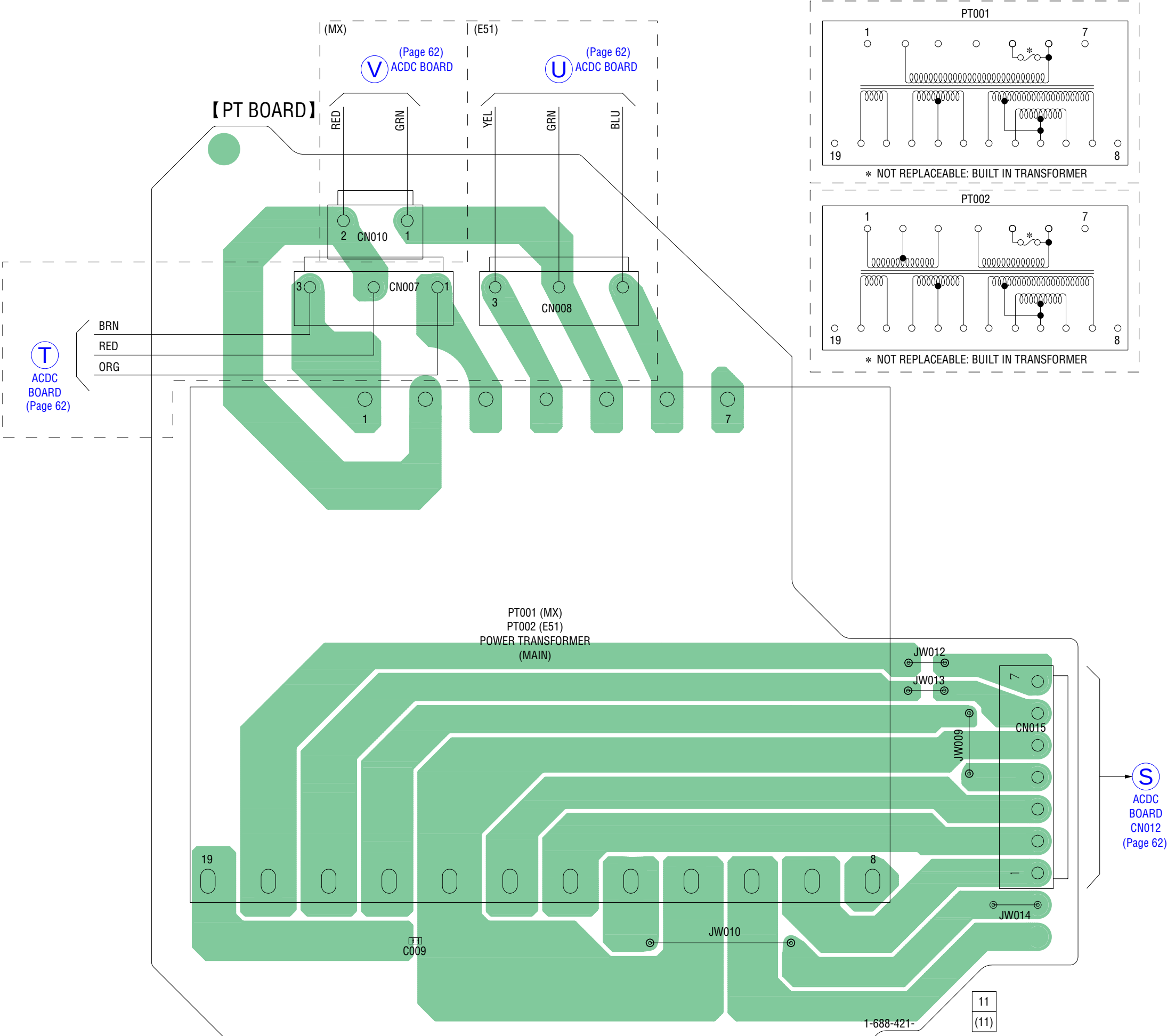
8-34. PRINTED WIRING BOARD – PT Board (US, AEP and UK models) – • See page 35 for Circuit Boards Location. :Uses unleaded solder.



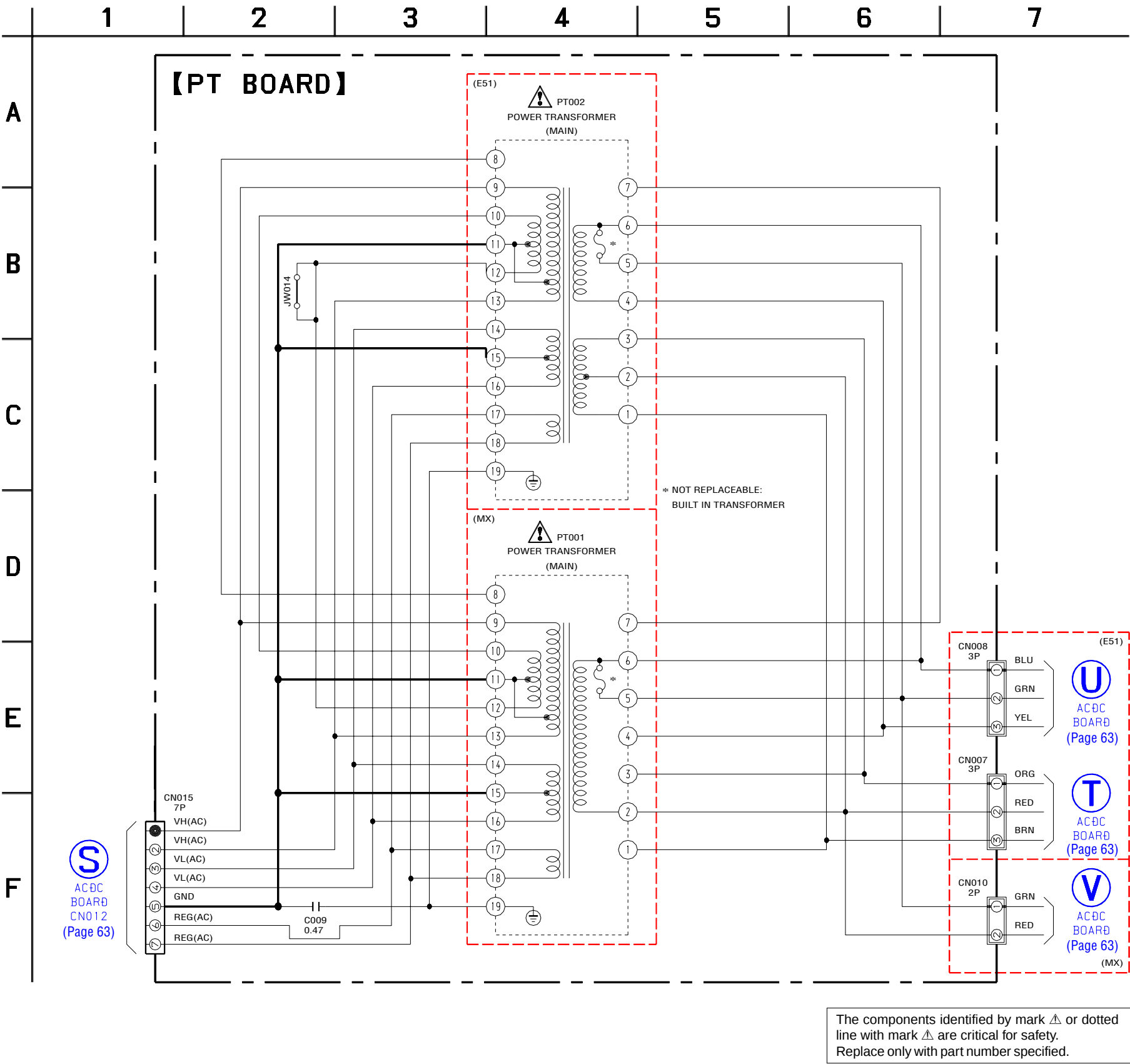
8-35. SCHEMATIC DIAGRAM – PT Board (US, AEP and UK models) –



8-36. PRINTED WIRING BOARD – PT Board (Chilean, Peruvian and Mexican models) – • See page 35 for Circuit Boards Location. :Uses unleaded solder.



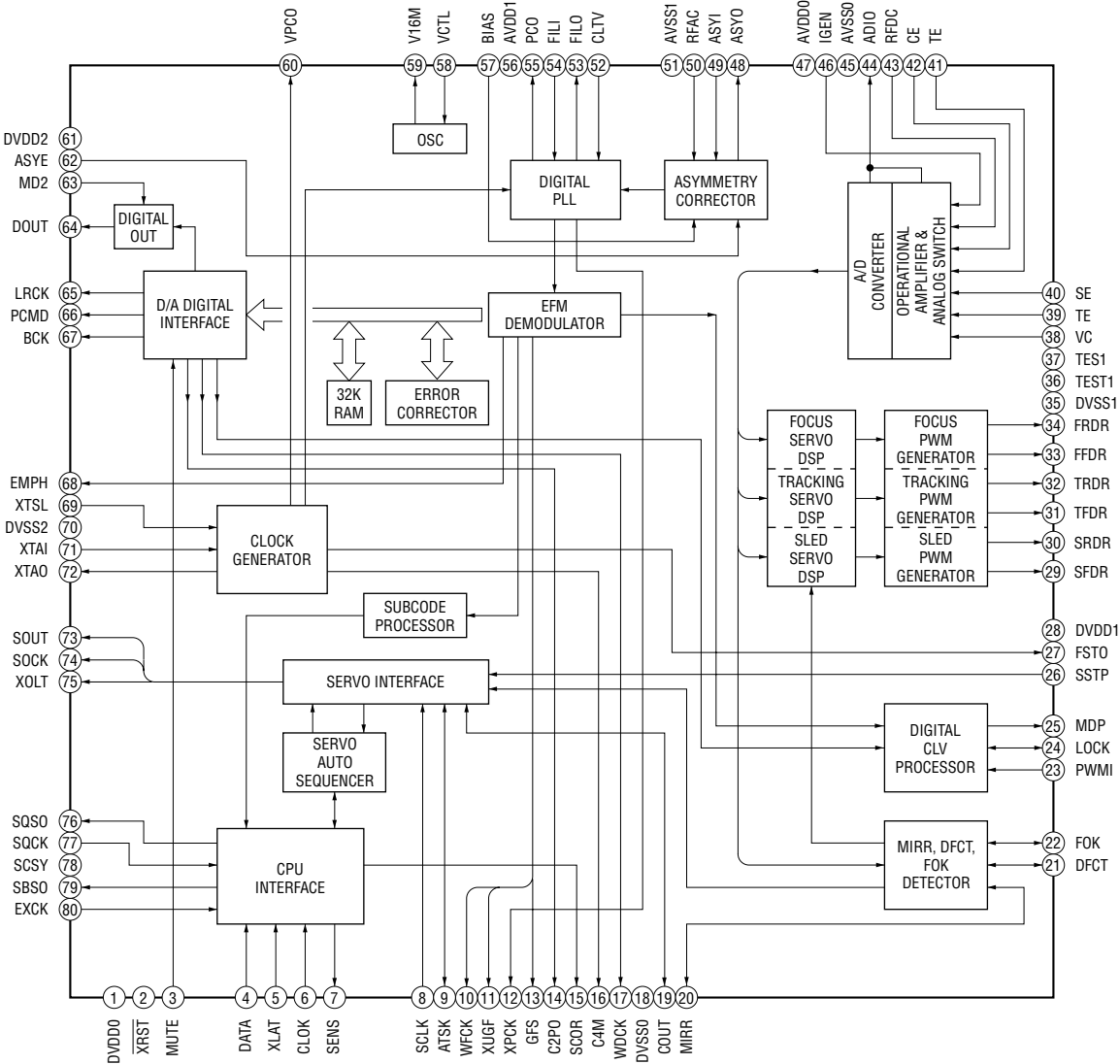
8-37. SCHEMATIC DIAGRAM – PT Board (Chilean, Peruvian and Mexican models) –



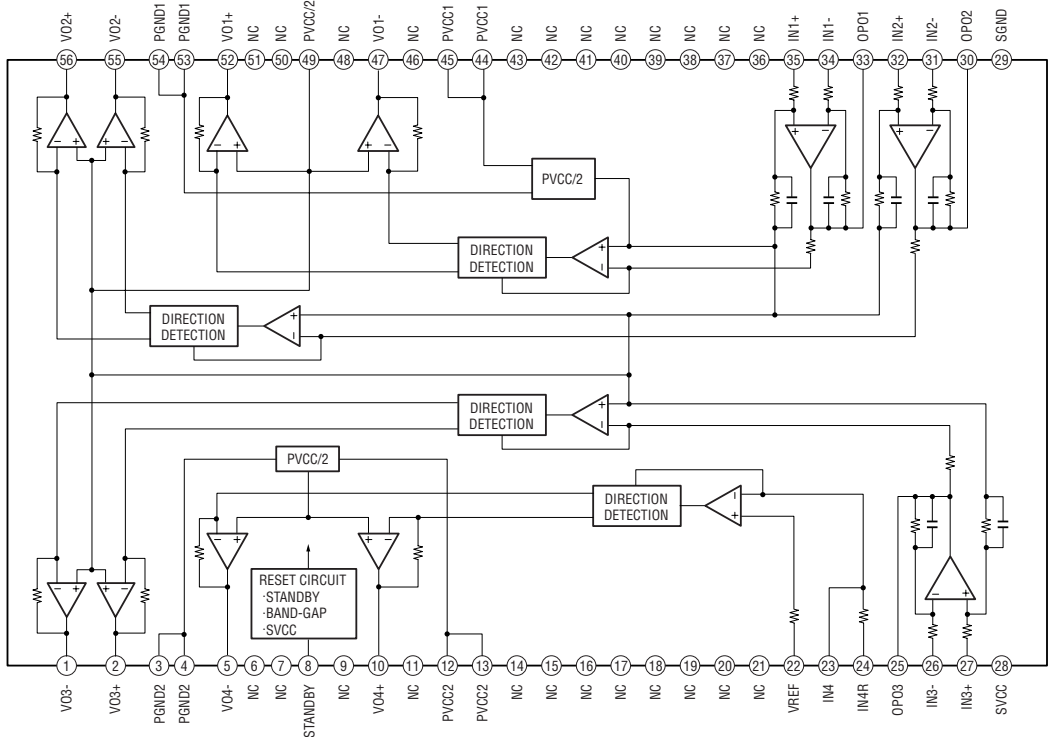
The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

- IC Block Diagrams
- BD Board –

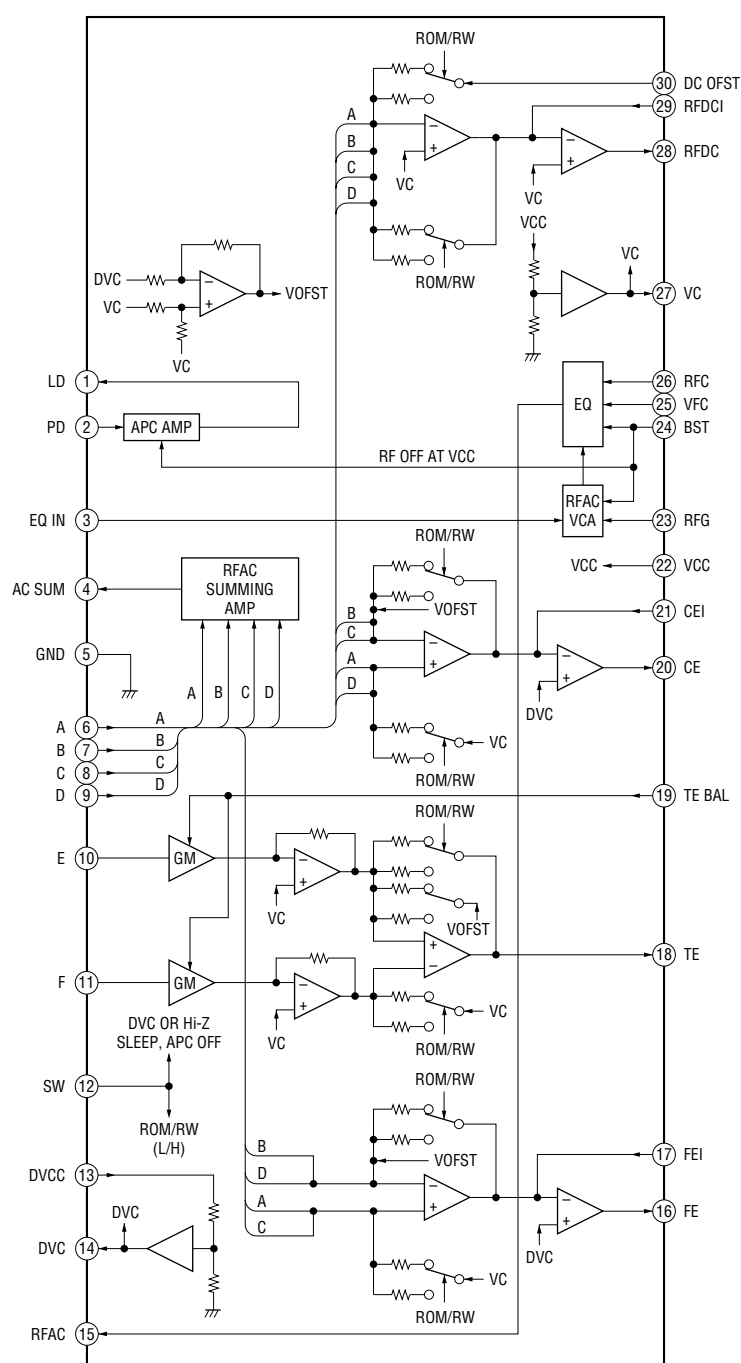
IC101 CXD3068Q

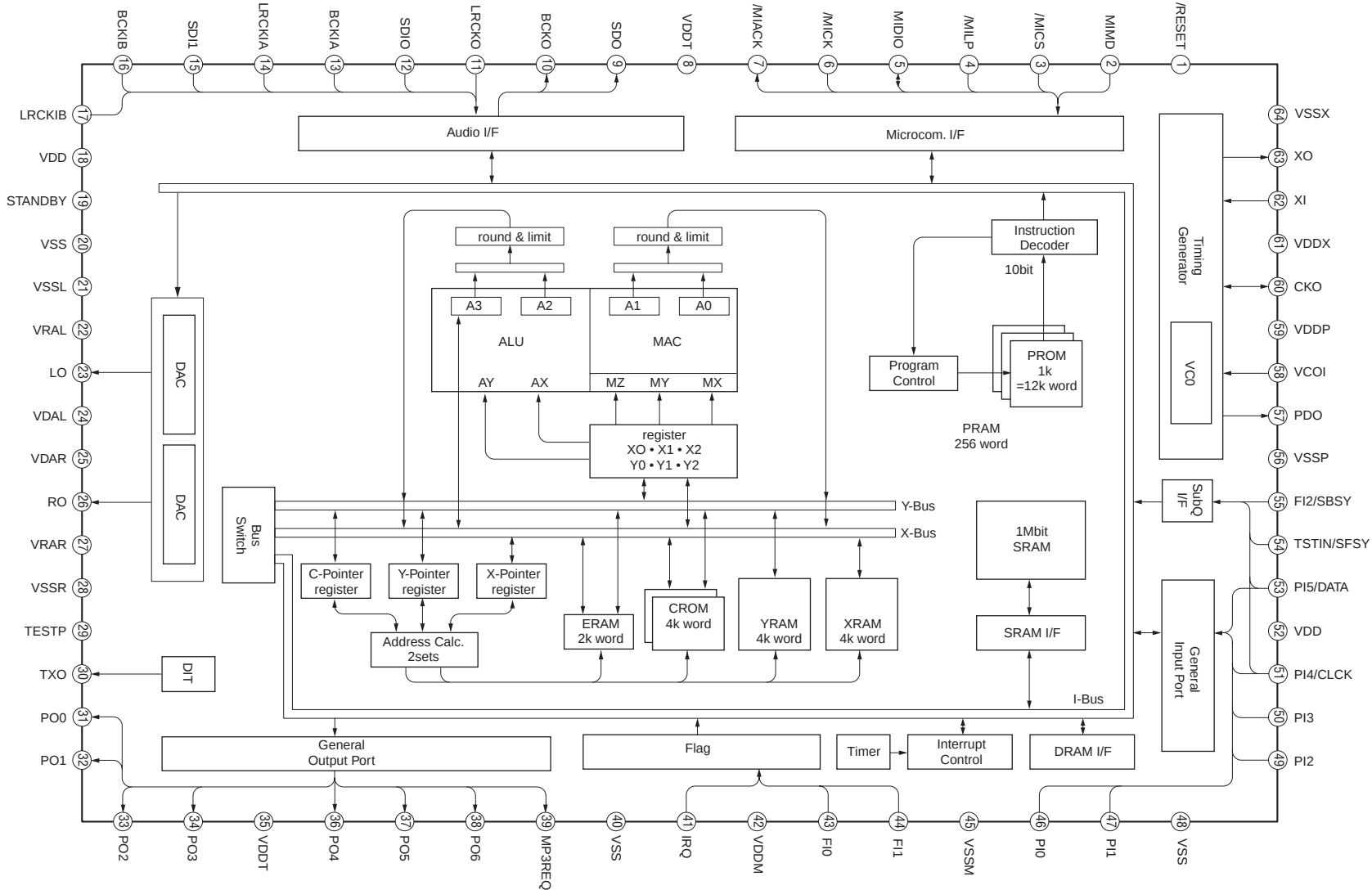


IC102 AN41020A



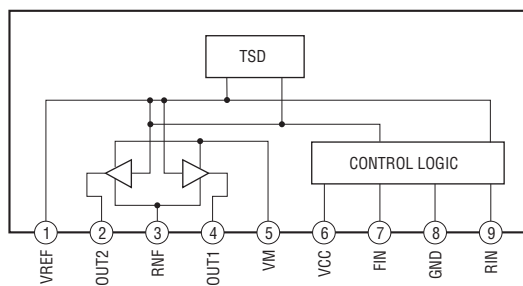
IC103 CXA2647N-T4





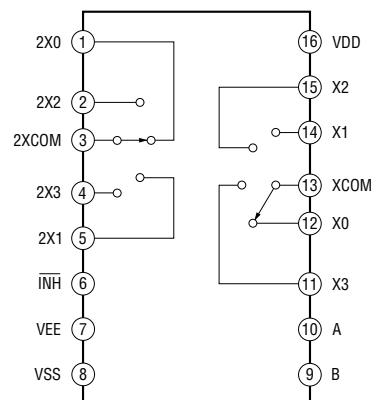
- CONNECTOR Board -

IC701, 711, 721 BA6956AN

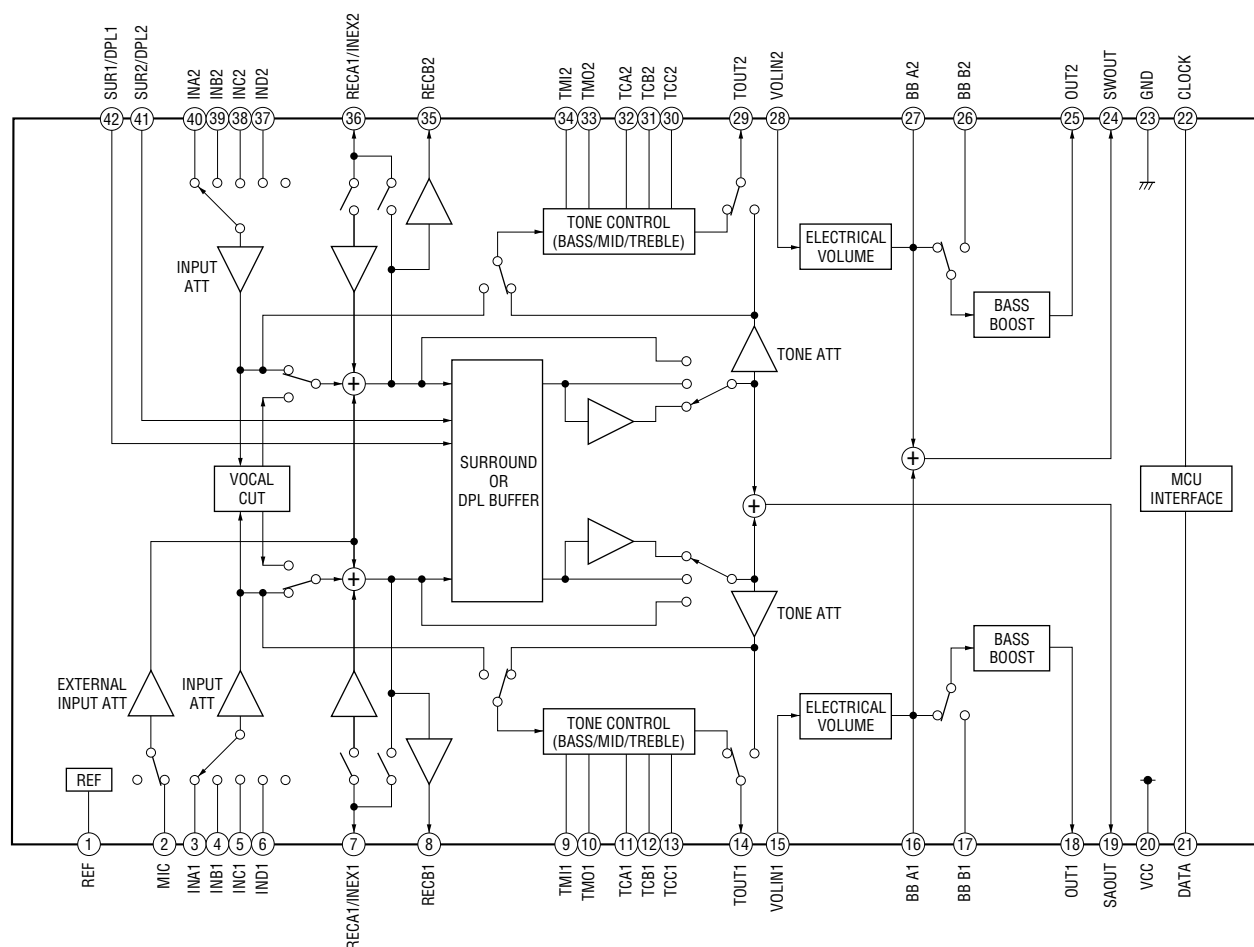


- MAIN Board -

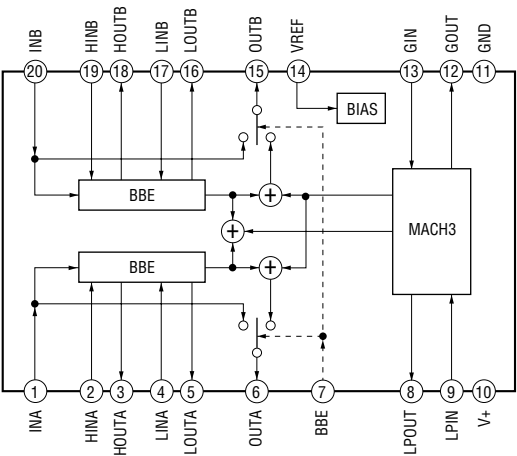
IC501 BU4052BCF-E2



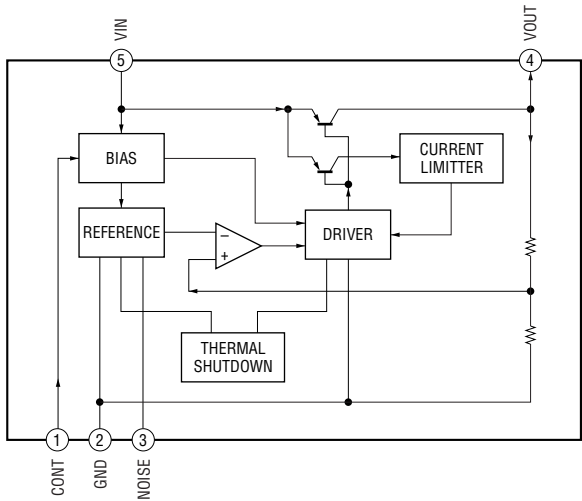
IC601 M61529FP-D60G



IC603 NJM2156M (TE2)



IC905 MM1614A



8-38. IC PIN FUNCTION DESCRIPTION

• BD BOARD IC101 CXD3068Q (DIGITAL SERVO, DIGITAL SERVO PROCESSOR)

Pin No.	Pin Name	I/O	Description
1	DVDD0	—	Power supply terminal (+3.3V) (digital system)
2	XRST	I	Reset signal input from the system controller “L”: reset
3	MUTE	I	Muting on/off control signal input terminal “H”: muting on Not used
4	DATA	I	Serial data input from the system controller
5	XLAT	I	Serial data latch pulse signal input from the system controller
6	CLOK	I	Serial data transfer clock signal input from the system controller
7	SENS	O	Internal status (SENSE) signal output to the system controller
8	SCLK	I	SENSE serial data reading clock signal input from the system controller
9	ATSK	I/O	Input/output terminal for anti-shock Not used
10	WFCK	O	Write frame clock signal output terminal Not used
11	RFCK	O	RFCK signal output terminal Not used
12	XPCK	O	XPCK signal output terminal Not used
13	GFS	O	Guard frame sync signal output terminal Not used
14	C2PO	O	C2 pointer signal output terminal Not used
15	SCOR	O	Subcode sync (S0+S1) detection signal output to the system controller
16	C4M	O	4.2336 MHz clock signal output terminal Not used
17	WDCK	O	Guard subcode sync (S0+S1) detection signal output terminal Not used
18	DVSS0	—	Ground terminal (digital system)
19	COUT	O	Numbers of track counted signal output terminal Not used
20	MIRR	O	Mirror signal output terminal Not used
21	DFCT	I/O	Defect signal input/output terminal Not used
22	FOK	O	Focus OK signal output terminal Not used
23	PWMI	I	Spindle motor external control signal input terminal Not used
24	LOCK	O	GFS is sampled by 460 Hz “H” output when GFS is “H” Not used
25	MDP	O	Spindle motor servo drive signal output to the motor/coil drive IC
26	SSTP	I	Detection signal input from limit in switch The optical pick-up is inner position when “H”
27	FSTO	O	2/3 divider output terminal Not used
28	DVDD1	—	Power supply terminal (+3.3V) (digital system)
29	SFDR	O	Sled servo drive PWM signal (+) output terminal
30	SRDR	O	Sled servo drive PWM signal (–) output terminal
31	TFDR	O	Tracking servo drive PWM signal (+) output terminal
32	TRDR	O	Tracking servo drive PWM signal (–) output terminal
33	FFDR	O	Focus servo drive PWM signal (+) output terminal
34	FRDR	O	Focus servo drive PWM signal (–) output terminal
35	DVSS1	—	Ground terminal (digital system)
36	TEST	I	Input terminal for the test
37	TES1	I	Input terminal for the test
38	VC	I	Middle point voltage (+1.65V) input terminal
39	FE	I	Focus error signal input from the RF amplifier
40	SE	I	Sled error signal input from the RF amplifier
41	TE	I	Tracking error signal input from the RF amplifier
42	CE	I	Middle point servo analog signal input
43	RFDC	I	RF signal input from the RF amplifier
44	ADIO	O	Output terminal for the test Not used
45	AVSS0	—	Ground terminal (analog system)

Pin No.	Pin Name	I/O	Description
46	IGEN	I	Stabilized current input for operational amplifiers
47	AVDD0	—	Power supply terminal (+3.3V) (analog system)
48	ASYO	O	EFM full-swing output terminal
49	ASYI	I	Asymmetry comparator voltage input terminal
50	RFAC	I	EFM signal input from the RF amplifier
51	AVSS1	—	Ground terminal (analog system)
52	CLTV	I	Internal VCO control voltage input terminal
53	FILO	O	Filter output for master PLL
54	FILI	I	Filter input for master PLL
55	PCO	O	Charge pump output for master PLL
56	AVDD1	—	Power supply terminal (+3.3V) (analog system)
57	BIAS	I	Asymmetry circuit constant current input terminal
58	VCTL	I	VCO control voltage input terminal for the wideband EFM PLL Not used
59	V16M	O	VCO oscillation output terminal for the wideband EFM PLL Not used
60	VPCO	O	Charge pump output terminal for the wideband EFM PLL Not used
61	DVDD2	—	Power supply terminal (+3.3V) (digital system)
62	ASYE	I	Asymmetry circuit on/off control signal input terminal “L”: off, “H”: on Not used
63	MD2	I	Digital out on/off control signal input terminal “L”: digital out off, “H”: digital out on Fixed at “H” in this set
64	DOUT	O	Digital audio signal output terminal
65	LRCK	O	L/R sampling clock signal (44.1 kHz) output to the MP3 decoder
66	PCMD	O	Serial data output to the MP3 decoder
67	BCLK	O	Bit clock signal (2.8224 MHz) output to the MP3 decoder
68	EMPH	O	“L” is output when playback disc is emphasis off “H” is output when playback disc is emphasis on Not used
69	XTSL	I	Input terminal for the system clock frequency setting “L”: 16.9344 MHz, “H”: 33.8688MHz Fixed at “H” in this set
70	DVSS2	—	Ground terminal (digital system)
71	XTAI	I	System clock input terminal (33.8688 MHz)
72	XTAO	O	System clock output terminal (33.8688 MHz) Not used
73	SOUT	O	Serial data output terminal Not used
74	SOCK	O	Serial data reading clock signal output terminal Not used
75	XOLT	O	Serial data latch pulse signal output terminal Not used
76	SQSO	O	Subcode Q data output to the system controller
77	SQCK	I	Subcode Q data reading clock signal input from the system controller
78	SCSY	I	Input terminal for resynchronism of guard subcode sync (S0+S1) Not used
79	SBSO	O	Subcode serial data output terminal Not used
80	EXCK	I	Subcode serial data reading clock signal input terminal Not used

• MAIN BOARD IC901 uPD703260YGF-S04-JBT-A (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	RDS_SIG	I	Tuning signal level input from the RDS decoder Used for the AEP, UK models
2	RDS_DATA	I	Serial data input from the RDS decoder Used for the AEP, UK models
3	AVREF0	—	Reference voltage (+3.1V) input terminal
4	AVSS	—	Ground terminal
5	MICS	O	Chip select signal output to the MP3 decoder
6	DO	I	Serial data input from the tuner unit
7	AVREF1	—	Power supply terminal (+3.1V)
8	STEREO	I	Stereo detection signal input from the tuner unit
9	TUNE	I	Tuner tuned status signal from the tuner unit
10	FLMD0	—	Not used
11	VDD	—	Power supply terminal (+3.1V)
12	REGC	—	Connected to the external capacitor
13	VSS	—	Ground terminal
14	X1	I	Main system clock input terminal (5MHz)
15	X2	O	Main system clock output terminal (5MHz)
16	$\overline{\text{RESET}}$	I	Reset signal input from the reset signal generator “L”: reset
17	XT1	I	Sub system clock input terminal (32.768kHz)
18	XT2	O	Sub system clock output terminal (32.768kHz)
19	MP3RST	O	System reset signal output to the MP3 decoder
20	RDS_CLK	I	Clock signal input from the RDS decoder Microphone detect signal input terminal Used for the AEP, UK, Chilean, Peruvian models
21	SCOR	I	SCOR signal input from the digital signal processor
22	CAN'T_USE	—	Not used
23	$\overline{\text{RMC}}$	I	Remote control signal input from the remote control receiver
24	USB_DATA	I/O	I2C data input/output with the USB interface IC
25	USB_CLK	I/O	I2C clock signal input/output to the USB interface IC
26	DECK_PLAYSW	I	PLAY switch signal input from the tape mechanism deck
27	DECK_ENDSW	I	END switch signal input from the tape mechanism deck
28	DECK_PACK	I	PACK switch signal input from the tape mechanism deck
29	DECK_FREQ	I	Record protect detect switch signal input from the tape mechanism deck (front)
30	DECK_RREC	I	Record protect detect switch signal input from the tape mechanism deck (rear)
31	USB_ACK	I	Acknowledge signal input from the USB interface IC
32	USB_INT	I	Interrupt request signal input from the USB interface IC
33	USB_VBUS_ON	O	VBUS control signal output terminal
34	$\overline{\text{STBY}}$	O	Standby LED control signal output terminal
35	EVSS	—	Ground terminal
36	EVDD	—	Power supply terminal (+3.1V)
37	MIACK	I	Acknowledge signal input from the MP3 decoder
38	MP3STB	O	Strobe signal output to the MP3 decoder
39	MUTE	O	Muting control signal output to power amplifier circuit
40	POWER	O	Main power control signal output terminal
41	POWER_DOWN	I	Power down detection signal input terminal
42	HEADPHONE	I	Headphone detection signal input “L”: headphone on
43	SHIFT_CLK	O	Serial data transfer clock signal output to the shift register

Pin No.	Pin Name	I/O	Description
44	SHIFT_DATA	O	Serial data output to the shift register
45	SHIFT_STB	O	Strobe signal output to the shift register
46	PLLCE	O	Latch signal output to the tuner unit
47	PWM1	O	PWM signal output for focus offset adjustment
48	MCLK	O	Serial data transfer clock signal output to the tuner unit and input select IC
49	PWM3	O	PWM signal output for RF offset adjustment
50	MDATA	O	Serial data output to the tuner unit and input select IC
51	PWM2	O	PWM signal output for tracking offset adjustment
52	DATA	O	Serial data output to the digital signal processor
53	LCD_DATA	O	Serial data output to the LCD driver
54	LCD_CLK	O	Serial data transfer clock output to the LCD driver
55	CLOCK	O	Serial data transfer clock output to the digital signal processor
56	SQSO	I	Sub-Q data input from the digital signal processor
57	SQCK	O	Sub-Q clock output to the digital signal processor
58	SENS	I	SENS signal input from the digital signal processor
59	LDON	O	Laser diode on/off control signal output to the automatic power control circuit “H”: laser on
60	XLT	O	Control data latch signal output to the digital signal processor
61	XRST	O	System reset signal output to the digital signal processor and motor/coil drive IC
62	MICK	O	Serial data transfer clock signal output to the MP3 decoder
63	LCD_CE	O	Latch signal output to the LCD driver
64	MIDIO	I/O	Serial data input/output to/from the MP3 decoder
65	MP3REQ	O	Request signal output to the MP3 decoder
66	MILP	O	Latch pulse signal output to the MP3 decoder
67	ELV_E2	I	ELV_E2 switch signal input from the CD mechanism
68	ELV_E3	I	ELV_E3 switch signal input from the CD mechanism
69	ELV_E1	I	ELV_E1 switch signal input from the CD mechanism
70	SLD_E3	I	SLD_E3 switch signal input from the CD mechanism
71	BVSS	—	Ground terminal
72	BVDD	—	Power supply terminal
73	SLD_E1	I	SLD_E1 switch signal input from the CD mechanism
74	SW5-B	I	SW4 switch signal input from the CD mechanism
75	ELV_POS	O	Elevator motor control signal output for the CD mechanism
76	SLD_POS	O	Loading motor control signal output for the CD mechanism
77	LOD_POS	O	Sled motor control signal output for the CD mechanism
78	SW4	I	SW5-B switch signal input from the CD mechanism
79	SW2-A	I	SW2-A switch signal input from the CD mechanism
80	SW3	I	SW3 switch signal input from the CD mechanism
81	D_SENSOR	I	Disc sensor signal input from the CD mechanism
82	SW1-A	I	SW1-A switch signal input from the CD mechanism
83	SW2-B	I	SW2-B switch signal input from the CD mechanism
84	SW5-A	I	SW5-A switch signal input from the CD mechanism
85	LOD_NEG	O	Sled motor control signal output for the CD mechanism
86	SLD_NEG	O	Loading motor control signal output for the CD mechanism
87	ELV_NEG	O	Elevator motor control signal output for the CD mechanism
88	SLD_E0	I	SLD_E0 switch signal input from the CD mechanism
89	SLD_E2	I	SLD_E2 switch signal input from the CD mechanism

Pin No.	Pin Name	I/O	Description
90	ELV_E0	I	ELV_E0 switch signal input from the CD mechanism
91	RE_TRE	I	Jog dial pulse input from the rotary encoder (TREBLE/MIDDLE)
92	RE_BAS	I	Jog dial pulse input from the rotary encoder (BASS)
93	RE_VOL	I	Jog dial pulse input from the rotary encoder (VOLUME)
94	RE_JOG	I	Jog dial pulse input from the rotary encoder (MULTIJOG)
95	KEY3	I	Key input terminal (A/D input)
96	KEY2	I	Key input terminal (A/D input)
97	KEY1	I	Key input terminal (A/D input)
98	POWER_MONI	I	Voltage detection signal input terminal
99	LEVEL	I	Level meter signal input terminal
100	SUFIX	I	Destination setting input terminal

• USB AUX BOARD IC700 μ AC3553B (USB INTERFACE)

Pin No.	Pin Name	I/O	Description
1	XTI	I	System clock input terminal (12MHz)
2	XTO	O	System clock output terminal (12MHz)
3	AREG1	I	Connected to the external capacitor
4	AVSS_12	—	Ground terminal
5	OUTL	O	USB audio signal output terminal (L-ch)
6	OUTR	O	USB audio signal output terminal (R-ch)
7	AREG0	I	Connected to the external capacitor
8	AVDD	—	Power supply terminal (+5V)
9	DAI	I	Not used
10	WSI	I	Not used
11	CLI	I	Not used
12	INT_DATA	O	Interrupt request signal output to the USB interface IC
13	ACK	O	Acknowledge signal output to the USB interface IC
14 to 19	NC	—	Not used
20	SDA	I/O	I2C data input/output with the system controller
21	SCL	I/O	I2C clock signal input/output to the system controller
22	TRDY	I	Not used
23	VREG	I	Connected to the external capacitor
24	VBUS	I	USB connect detection signal input terminal
25	D-	I	USB data (-) input terminal
26	D+	I	USB data (+) input terminal
27	VSS	—	Ground terminal
28	VDD	—	Power supply terminal (+5V)
29	TEST	I	For test terminal
30	REST	I	Not used
31	SUSPEND	I	Not used
32	SOF	I	Not used
33	SEN	I	Not used
34	FOUTL	O	USB audio signal output terminal (L-ch)
35	FOPL	I	Not used
36	FINL	O	USB audio signal input terminal (L-ch)
37	FOUTR	O	USB audio signal output terminal (R-ch)
38	FOPR	I	Not used
39	FINR	O	USB audio signal input terminal (R-ch)
40, 41	NC	—	Not used
42	SGND	—	Ground terminal
43	SREF	I	Not used
44	NC	I	Not used

SECTION 9

EXPLODED VIEWS

NOTE:

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

- Color Indication of Appearance Parts

Example:

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

↑ ↑
Parts Color Cabinet's Color

- 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.

- Tape deck is not loaded in US model.

The shape of the top panel shown in "EXPLODED VIEWS" is different from the actual shape.

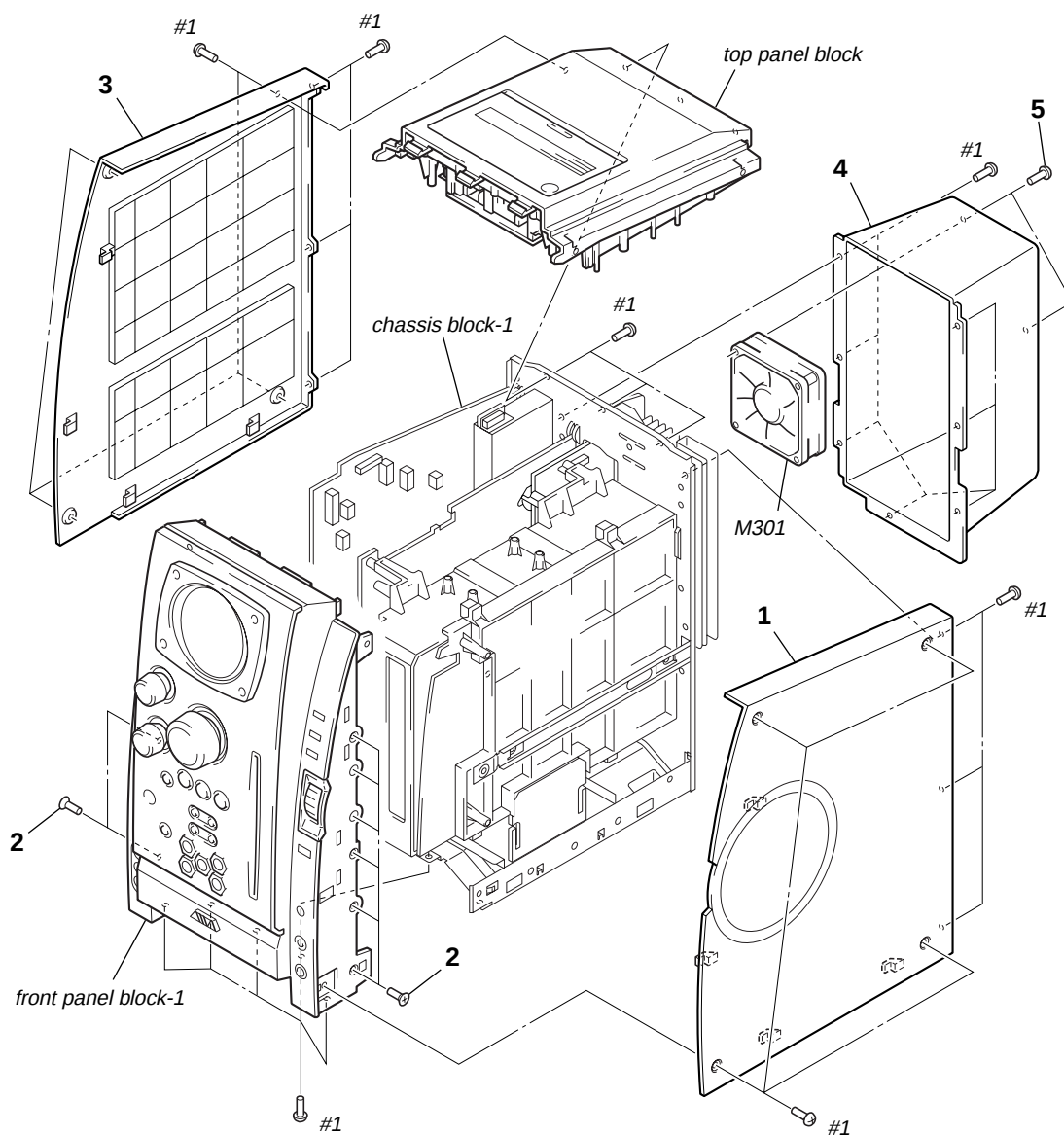
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

- Abbreviation

E51 : Chilean and Peruvian models

MX : Mexican model

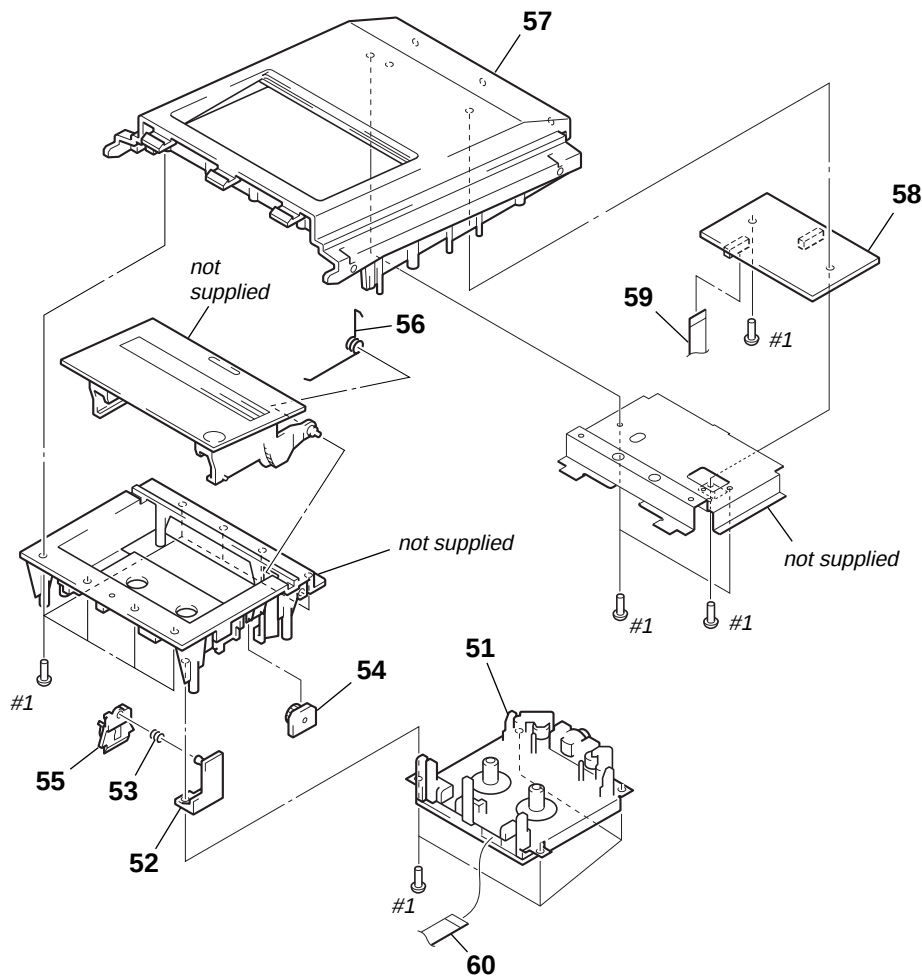
9-1. PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-245-038-01	PANEL, RIGHT (US)		4	4-245-039-11	COVER, REAR (E51)	
1	4-245-038-11	PANEL, RIGHT (AEP, UK, E51, MX)		4	4-245-039-21	COVER, REAR (AEP, UK)	
2	4-242-531-01	QT2+3-10 TYPE2 IT-3		4	4-245-039-31	COVER, REAR (MX)	
3	4-245-073-01	PANEL (LEFT) (US)		5	4-951-620-01	SCREW (2.6X8), +BVTP	
3	4-245-073-11	PANEL (LEFT) (AEP, UK, E51, MX)		M301	1-763-072-11	FAN, DC	
4	4-245-039-01	COVER, REAR (US)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

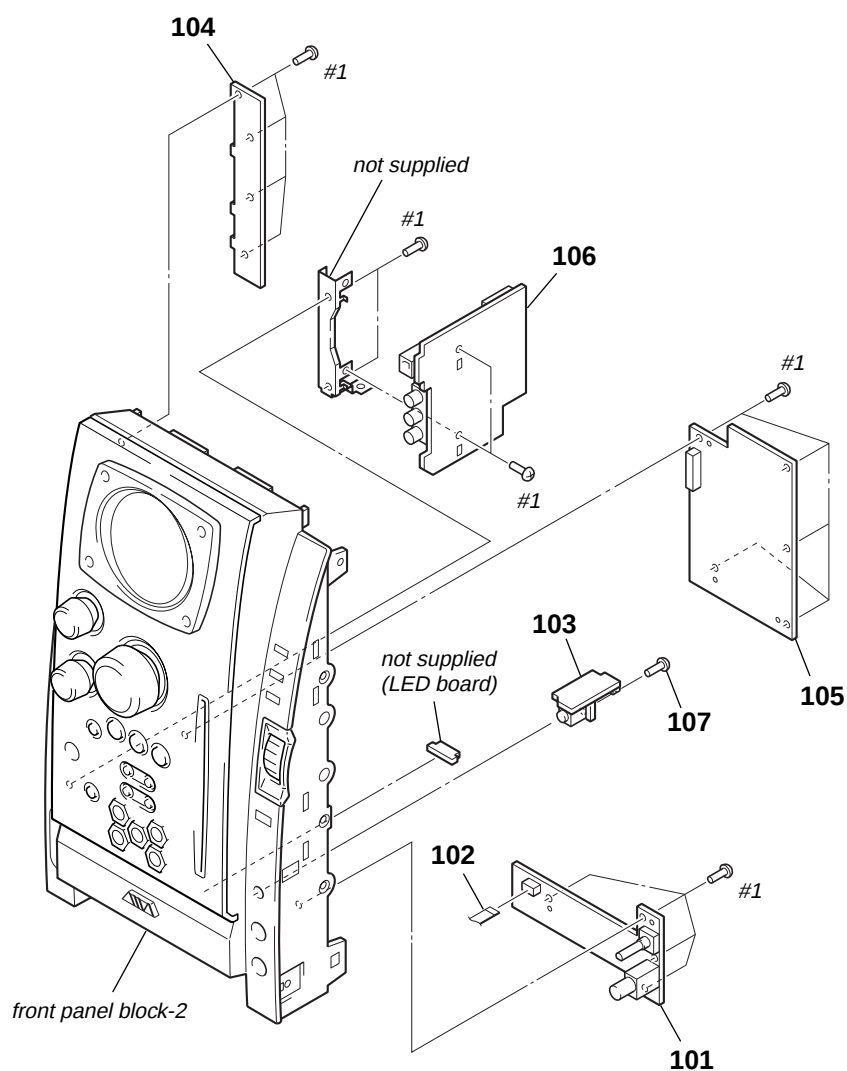
9-2. TOP PANEL BLOCK

Note: Tape deck is not loaded in US model.
The shape of the top panel shown in "EXPLODED VIEWS" is different from the actual shape.



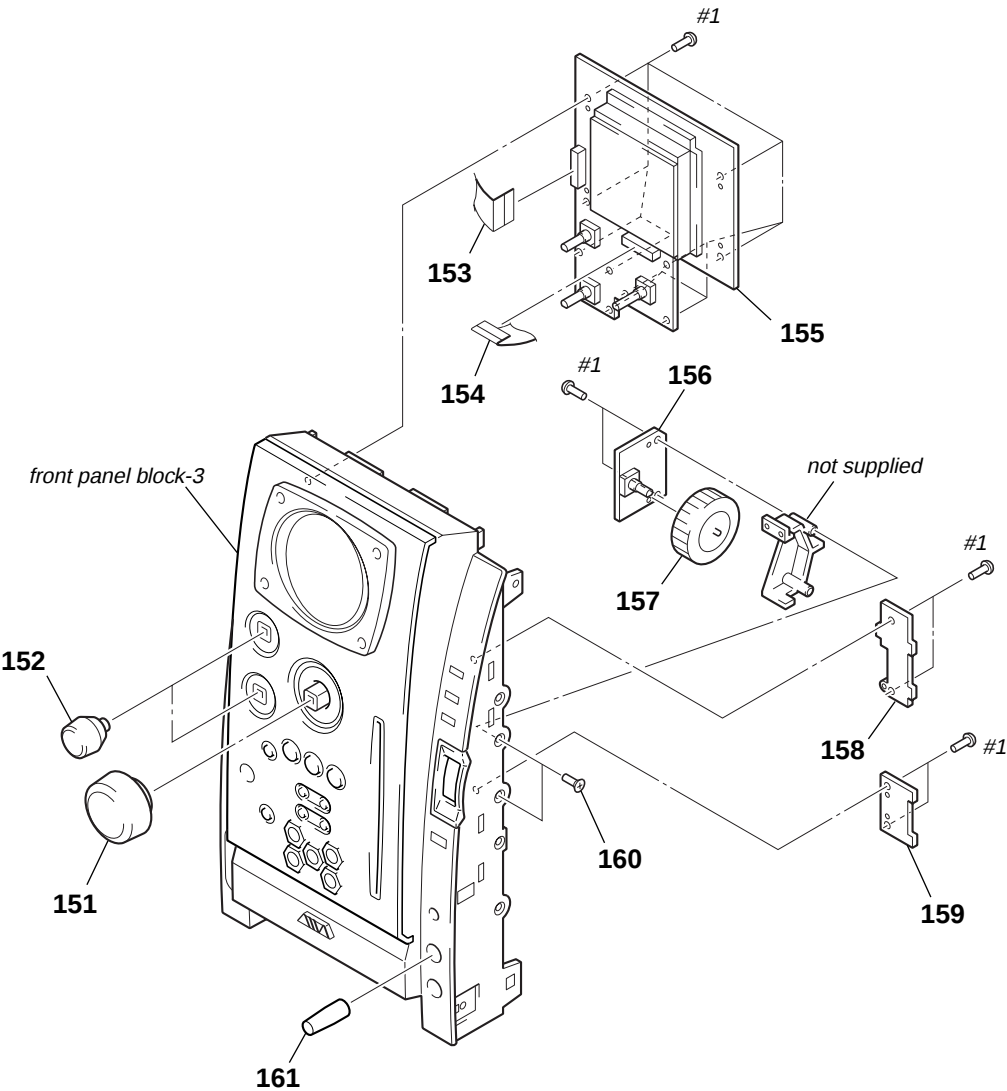
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	1-796-351-61	MECHANISM, SIGNAL CASSETTE (GMAL1Z241A) (EXCEPT US)		57	4-245-072-01	PANEL, TOP (US)	
52	4-242-174-01	HLDR, LOCK 1 (EXCEPT US)		57	4-245-072-11	PANEL, TOP (EXCEPT US)	
53	4-242-173-01	SPR-C, LOCK (EXCEPT US)		58	A-4733-420-A	DECK BOARD, COMPLETE (EXCEPT US)	
54	4-242-171-01	DAMPER 150 N (EXCEPT US)		59	1-765-326-11	WIRE (FLAT TYPE) (11 CORE) (EXCEPT US)	
55	4-242-172-01	PLATE, LOCK (EXCEPT US)		60	1-827-677-11	WIRE (FLAT TYPE) (8 CORE) (EXCEPT US)	
56	4-247-458-01	SPRING (CASS), TORSION (EXCEPT US)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

9-3. FRONT PANEL BLOCK-1



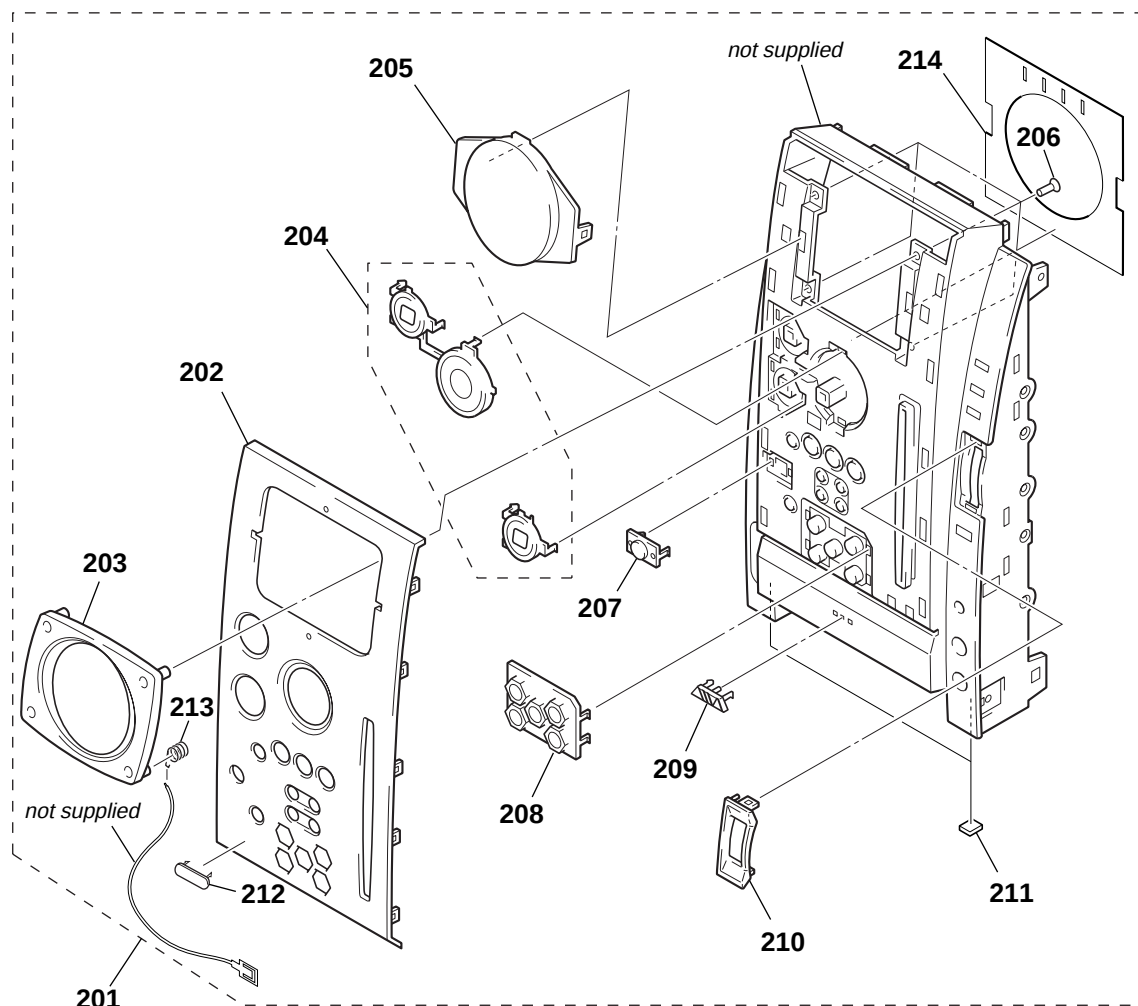
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-4733-419-A	MIC BOARD, COMPLETE (E51, MX)		105	A-4733-395-A	KEY LED RMC BOARD, COMPLETE	
102	1-769-869-11	WIRE (FLAT TYPE) (5 CORE) (E51, MX)		106	A-4733-399-A	USB AUX BOARD, COMPLETE	
103	1-688-414-11	HEADPHONE BOARD		107	3-229-336-01	SCREW, +BVWH TAPPING	
104	1-688-407-11	LEFT BUTTON BOARD		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

9-4. FRONT PANEL BLOCK-2



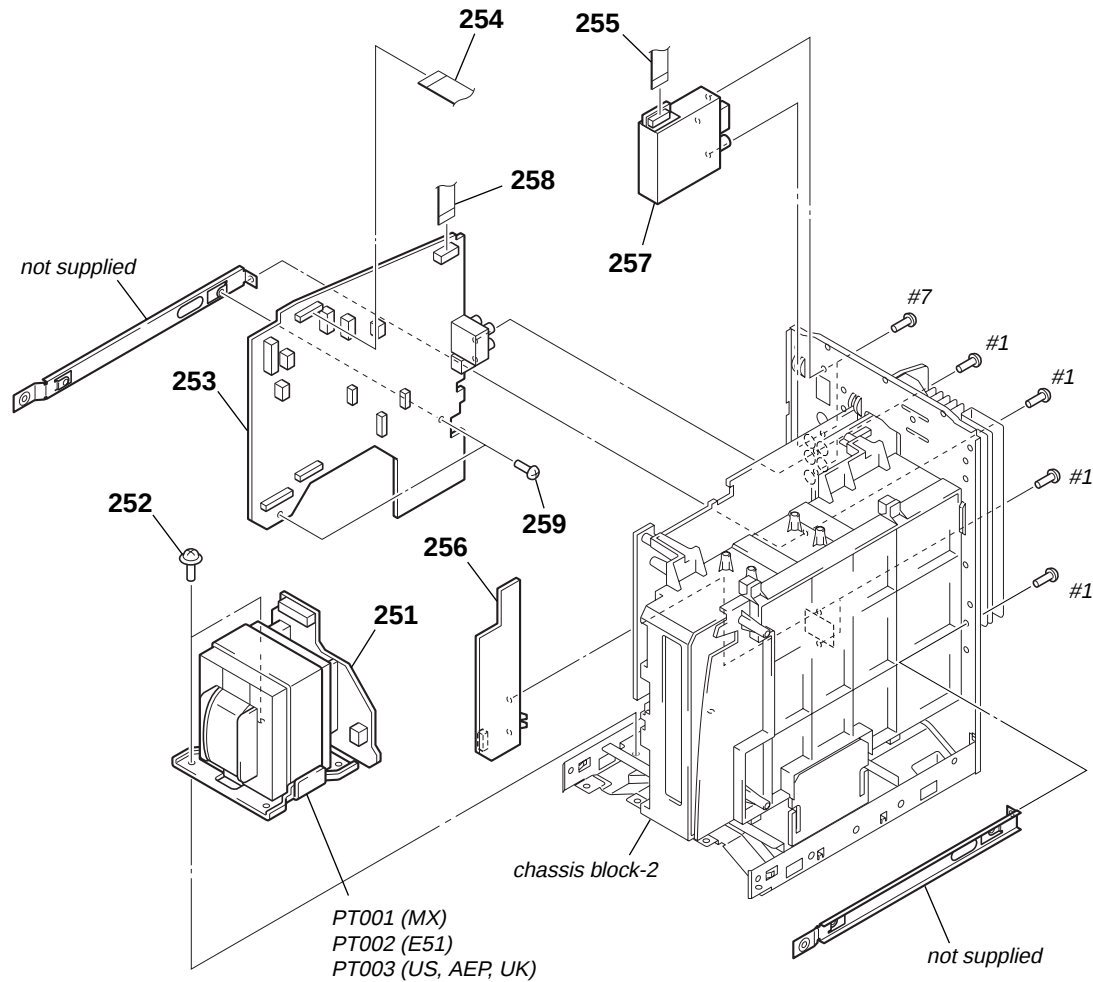
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	X-4955-595-1	VOL ASSY, KNOB RTRY		157	4-245-101-01	KNOB (JOG), ROTARY	
152	X-4955-596-1	TRE ASSY, KNOB RTRY		158	1-688-408-11	RIGHT BUTTON (1) BOARD	
153	1-773-115-11	WIRE (FLAT TYPE) (19 CORE)		159	1-688-409-11	RIGHT BUTTON (2) BOARD	
154	1-773-156-11	WIRE (FLAT TYPE) (21 CORE)		160	4-242-531-01	QT2+3-10 TYPE2 IT-3	
155	A-4733-394-A	LCD VOL BOARD, COMPLETE		161	4-245-089-01	KNOB (MIC), ROTARY (E51, MX)	
156	1-688-413-11	JOG BOARD		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

9-5. FRONT PANEL BLOCK-3



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	X-4955-409-2	CABI, FR ASSY (US)		207	4-245-088-01	WINDOW, SENSOR	
201	X-4955-727-2	CABINET (FRONT) ASSY (E51, MX)		208	4-245-094-01	PANEL, CD DIRECT	
201	X-4955-728-2	CABINET (FRONT) ASSY (AEP, UK)		209	4-245-158-01	EMBLEM	
202	4-245-075-01	PANEL, FRONT (US)		210	4-245-077-01	PANEL (JOB)	
202	4-245-075-11	PANEL, FRONT (AEP, UK, E51, MX)		211	4-242-091-01	CUSHION	
203	X-4955-408-1	PANEL, DISP ASSY		212	4-246-682-01	EMBLEM (30), MP3	
204	4-245-098-01	REFLECTOR (VOL)		213	4-250-402-01	SPRING (PANEL), GROUND	
205	4-245-078-01	WINDOW, DISPLAY		214	2-249-914-01	SHEET, INSULATED	
206	4-242-531-01	QT2+3-10 TYPE2 IT-3		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

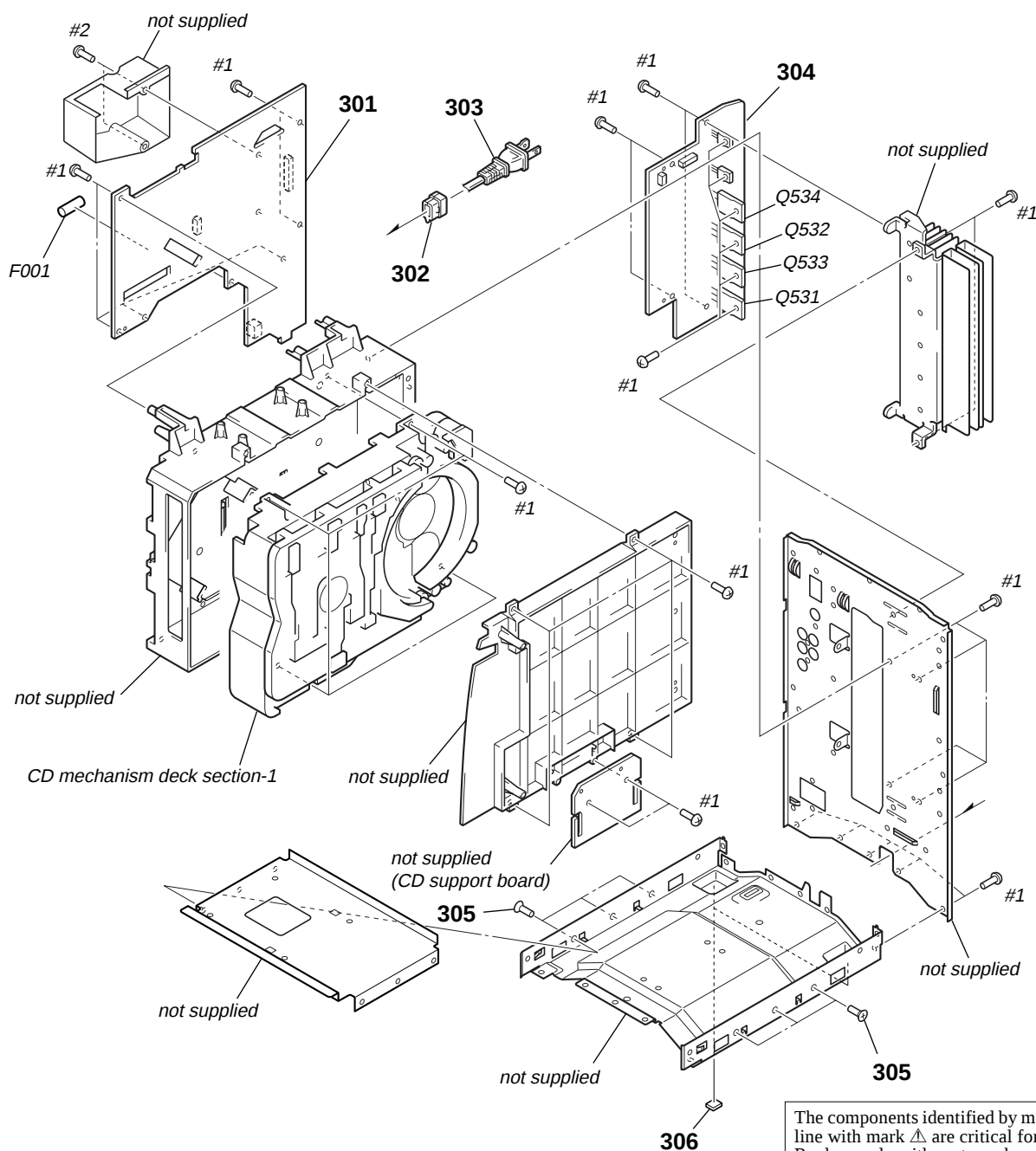
9-6. CHASSIS BLOCK-1



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

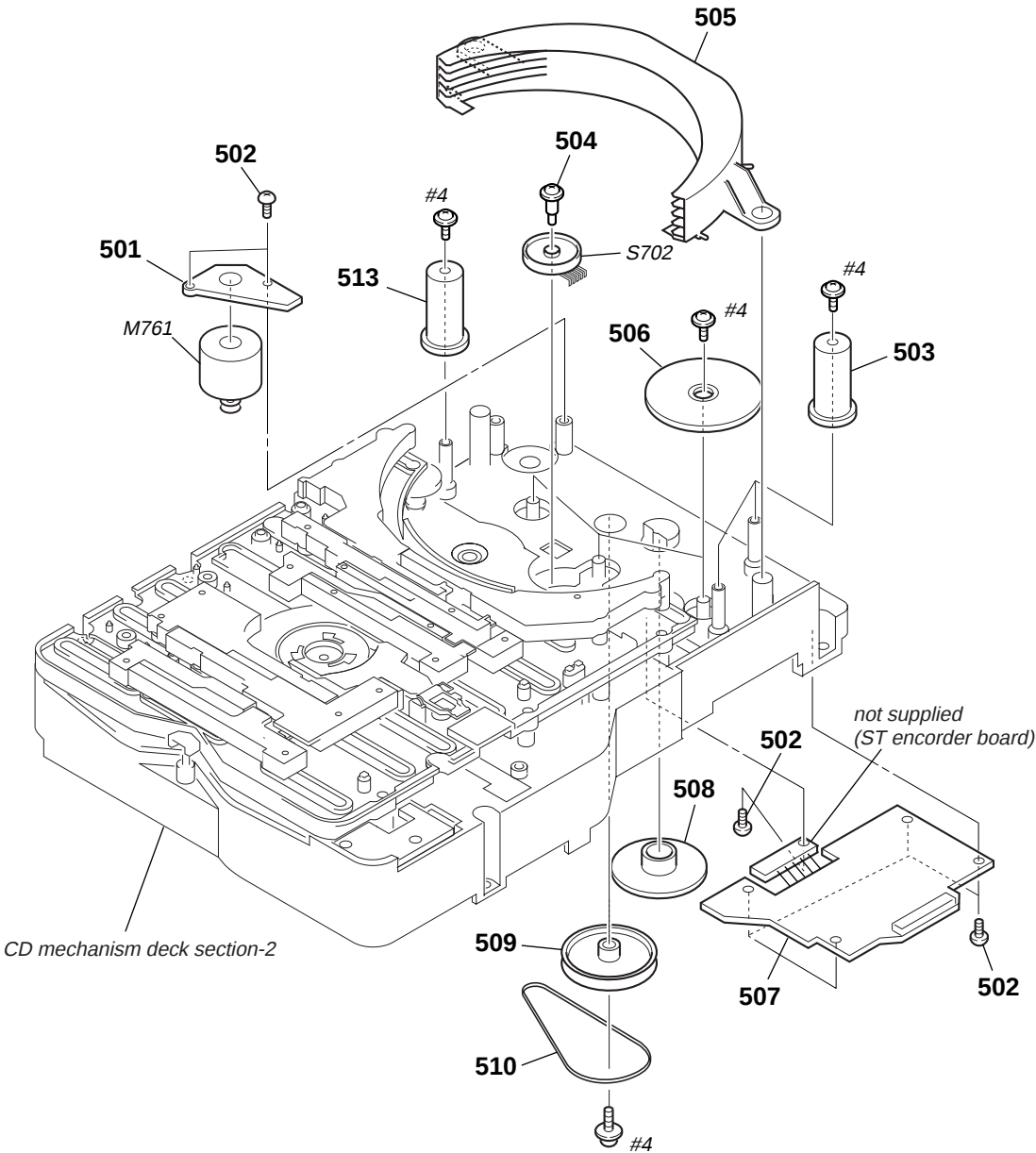
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	1-688-417-11	PT BOARD (US, AEP, UK)		257	1-693-626-11	TUNER (FM/AM) (AEP, UK)	
251	1-688-421-11	PT BOARD (E51, MX)		257	1-693-628-11	TUNER (FM/AM) (E51, MX)	
252	4-242-527-01	S-SCREW, ITC+4-8 R		258	1-769-944-11	WIRE (FLAT TYPE) (11 CORE)	
253	A-4733-389-A	MAIN BOARD, COMPLETE (US)		259	4-242-519-01	BVT2+3-6 W/O SLOT	
253	A-4733-423-A	MAIN BOARD, COMPLETE (E51, MX)		$\triangle$ PT001	1-439-796-11	TRANSFORMER, POWER (MX)	
253	A-4733-440-A	MAIN BOARD, COMPLETE (AEP, UK)		$\triangle$ PT002	1-439-795-11	TRANSFORMER, POWER (E51)	
254	1-765-334-11	WIRE (FLAT TYPE) (17 CORE)		$\triangle$ PT003	1-439-794-11	TRANSFORMER, POWER (US)	
255	1-769-943-11	WIRE (FLAT TYPE) (11 CORE) (US, E51, MX)		$\triangle$ PT003	1-439-797-11	TRANSFORMER, POWER (AEP, UK)	
255	1-773-007-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
256	1-688-419-11	SPEAKER BOARD		#7	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
257	1-693-625-11	TUNER (FM/AM) (US)					

9-7. CHASSIS BLOCK-2



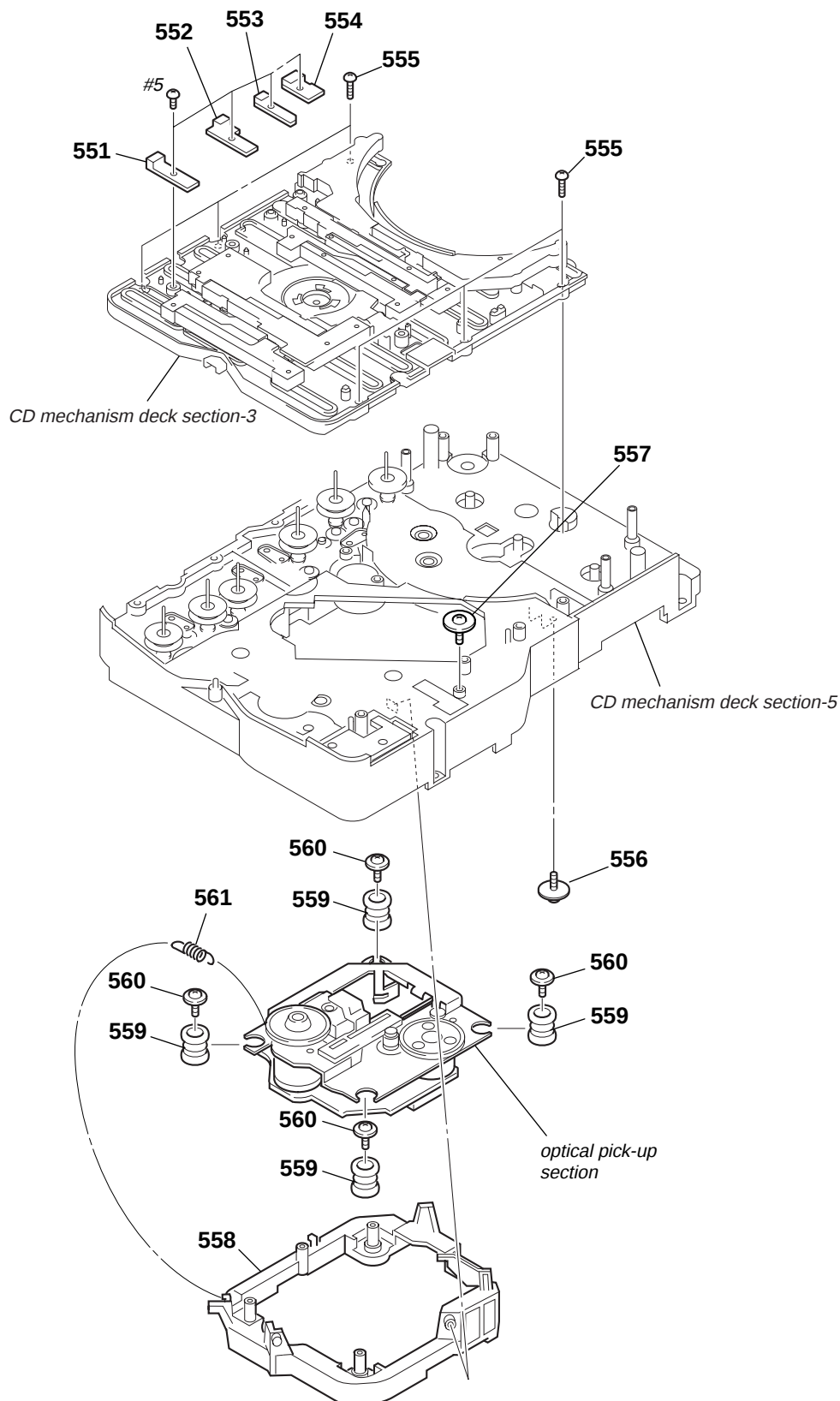
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	A-4733-391-A	ACDC BOARD, COMPLETE (US)		Δ F001	1-533-472-11	FUSE, GLASS TUBE (DIA. 5) (5A/250V)	(E51, MX)
301	A-4733-418-A	ACDC BOARD, COMPLETE (E51)		Q531	6-550-291-01	TRANSISTOR FN1016 (AEP, UK)	
301	A-4733-430-A	ACDC BOARD, COMPLETE (MX)		Q531	6-550-320-01	TRANSISTOR 2SD2562 (E51, MX)	
301	A-4733-432-A	ACDC BOARD, COMPLETE (AEP, UK)		Q531	8-729-020-52	TRANSISTOR 2SD2439-OPY (US)	
* 302	3-703-244-00	BUSHING (2104), CORD (US, AEP, UK, E51)		Q532	6-550-291-01	TRANSISTOR FN1016 (AEP, UK)	
302	3-703-571-11	BUSHING (S) (4516), CORD (MX)		Q532	6-550-320-01	TRANSISTOR 2SD2562 (E51, MX)	
Δ 303	1-777-071-83	CORD, POWER (AEP, UK, E51)		Q532	8-729-020-52	TRANSISTOR 2SD2439-OPY (US)	
Δ 303	1-783-532-11	CORD, POWER (US)		Q533	6-550-292-01	TRANSISTOR FP1016 (AEP, UK)	
Δ 303	1-827-226-11	CORD, POWER (MX)		Q533	6-550-319-01	TRANSISTOR 2SB1649 (E51, MX)	
304	A-4733-393-A	AMP BOARD, COMPLETE (US)		Q533	8-729-020-48	TRANSISTOR 2SB1588-OPY (US)	
304	A-4733-415-A	AMP BOARD, COMPLETE (E51, MX)		Q534	6-550-292-01	TRANSISTOR FP1016 (AEP, UK)	
304	A-4733-434-A	AMP BOARD, COMPLETE (AEP, UK)		Q534	6-550-319-01	TRANSISTOR 2SB1649 (E51, MX)	
305	4-242-530-01	QT2+3-8 W/O SLOT		Q534	8-729-020-48	TRANSISTOR 2SB1588-OPY (US)	
306	4-242-091-01	CUSHION		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
Δ F001	1-533-453-12	FUSE, GLASS TUBE (DIA. 5) (5A/125V) (US)		#2	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

9-8. CD MECHANISM DECK SECTION-1 (CDM69BV-30CBD64NS)



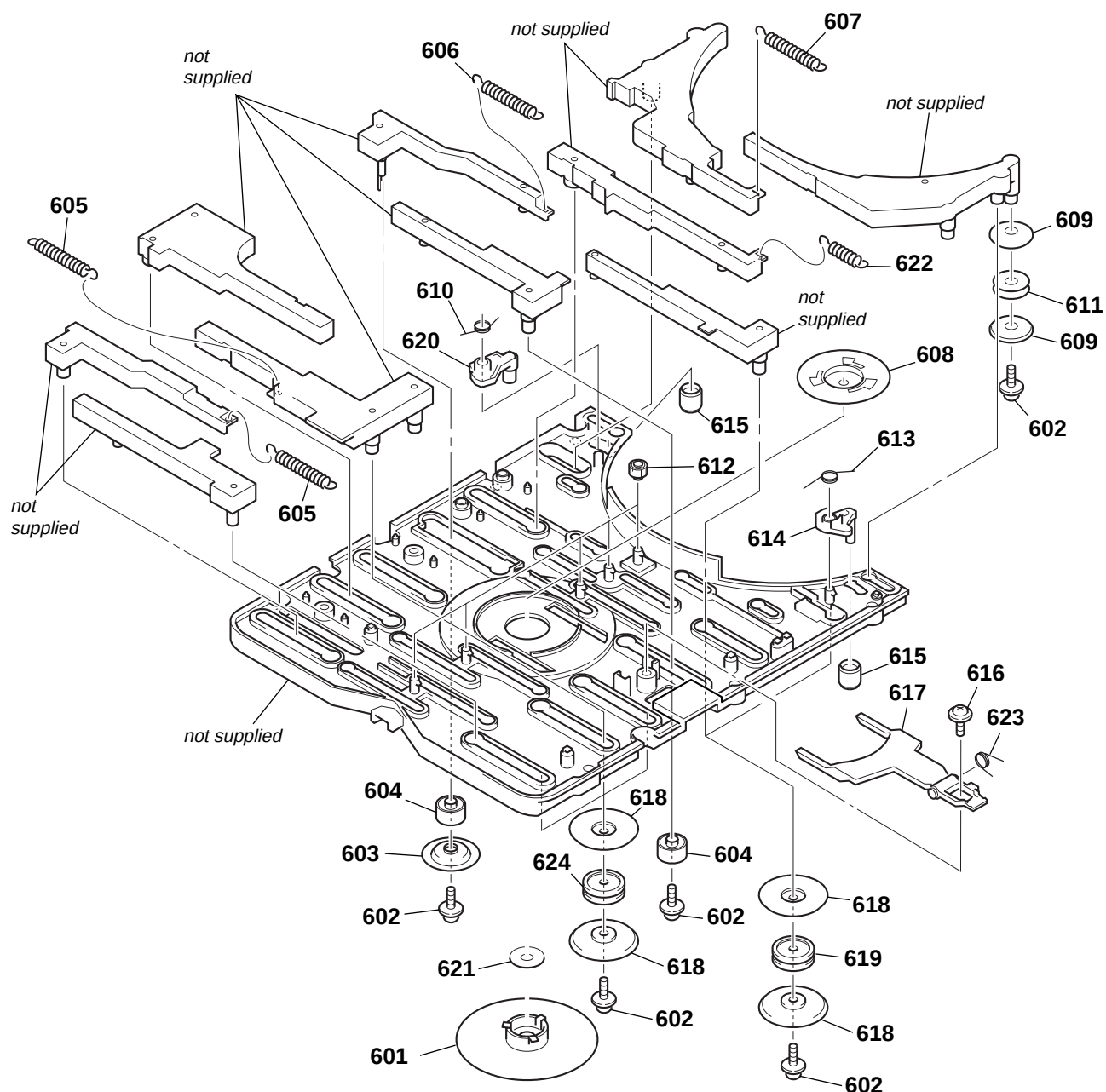
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501	1-686-725-12	STOCKER MOTOR BOARD		508	4-239-689-01	GEAR (STOCKER DECELERATION)	
502	4-951-620-01	SCREW (2.6X8), +BVTP		509	4-239-683-01	PULLEY (MODE DECELERATION)	
503	4-239-690-01	CAM (STOCKER U/D)		510	4-211-237-01	BELT (MODE)	
504	4-239-618-01	SCREW (+PWH,2X6), STEP TAPPING		513	4-244-764-01	CAM (STOCKER V)	
505	4-239-676-01	STOCKER		M761	A-4735-953-A	MOTOR ASSY (STOCKER)	
506	4-239-687-01	GEAR (STOCKER COMMUNICATION)		S702	1-477-299-11	ENCODER, ROTARY (STOCKER POSITION)	
507	A-4731-113-A	CONNECTOR BOARD, COMPLETE		#4	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

9-9. CD MECHANISM DECK SECTION-2 (CDM69BV-30CBD64NS)



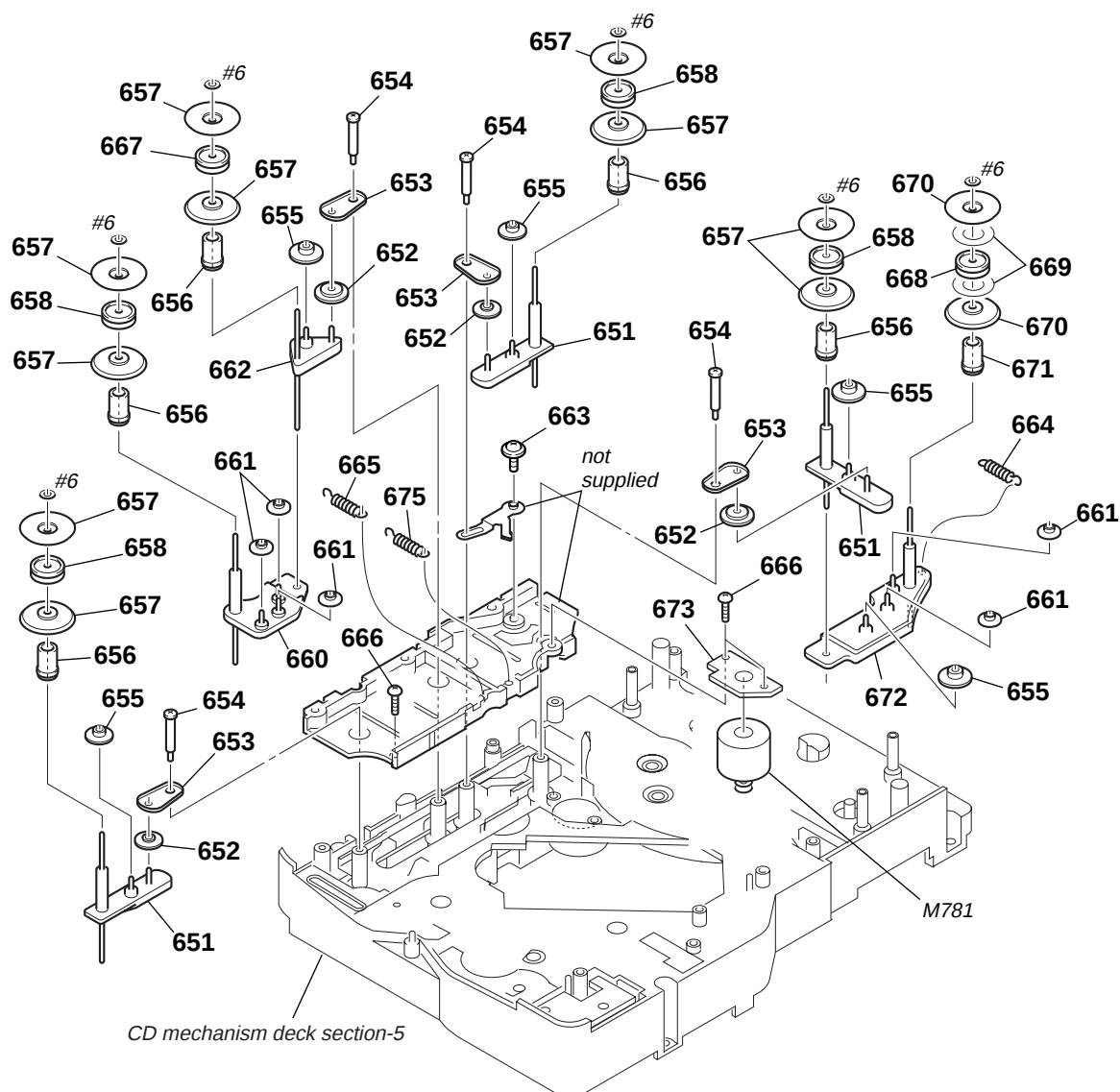
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
551	1-686-727-12	SW (1) BOARD		557	4-227-899-01	SCREW (DIA,12), FLOATING	
552	1-686-728-12	SW (2) BOARD		558	4-243-716-01	HOLDER (BU-30)	
553	1-686-729-12	SW (3) BOARD		559	4-234-824-01	RUBBER, VIBRATION PROOF	
554	1-686-730-12	SW (4) BOARD		560	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
555	4-951-620-01	SCREW (2.6X8), +BVTP		261	4-244-960-02	SPRING (BU30-1), TENSION	
556	4-985-672-01	SCREW (+PTPWHM 2.6), FLOATING		#5	7-685-533-14	SCREW +BTP 2.6X6 TYPE2 N-S	

9-10. CD MECHANISM DECK SECTION-3 (CDM69BV-30CBD64NS)



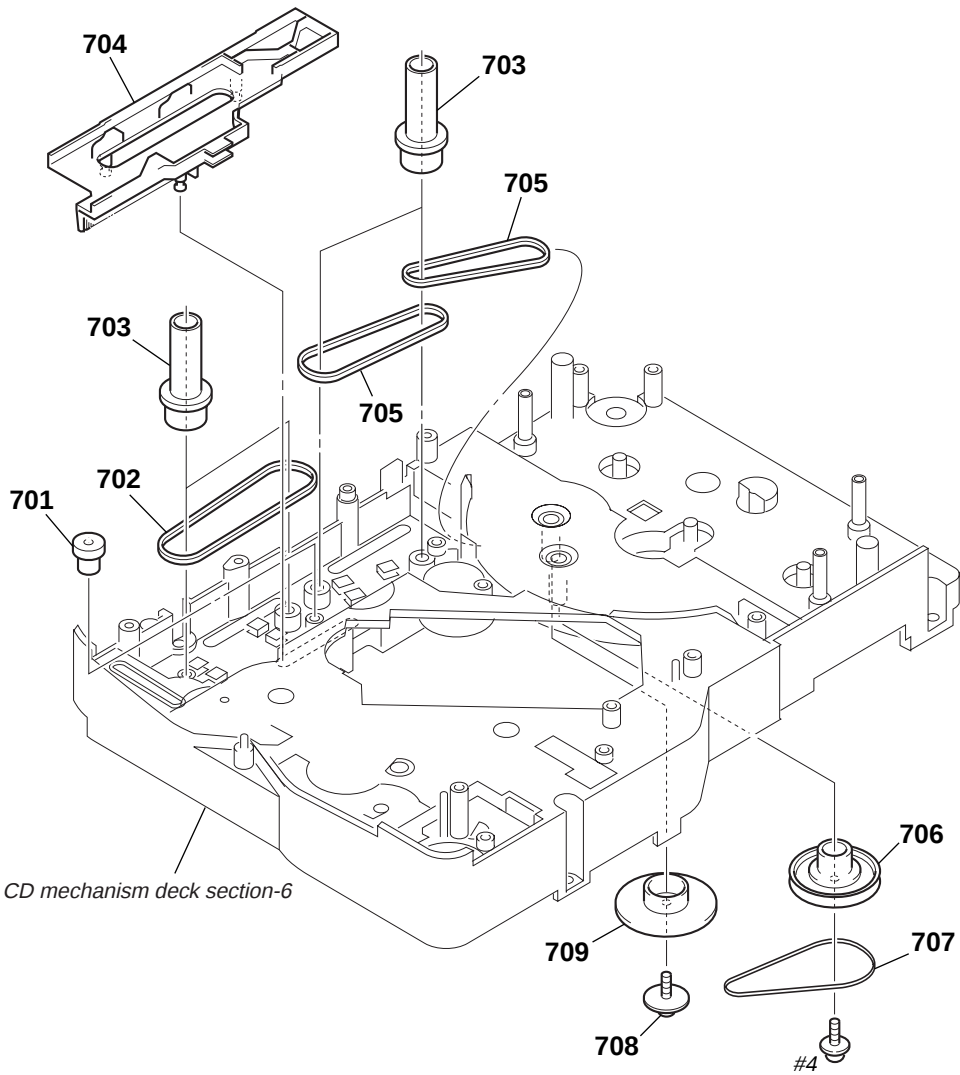
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
601	X-4955-447-1	PULLEY (A)(BU30) ASSY,CHUCKING		613	4-243-291-01	SPRING, TORSION	
602	4-992-069-01	SCREW (+PTPWH) (M2) (DIA. 7)		614	4-240-039-01	LEVER (DISC STOPPER)	
603	4-239-648-01	PARASOL (ROLLER)		615	4-239-702-01	ROLLER (DISC STOPPER)	
604	4-239-646-01	ROLLER (ROLLER)		616	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
605	4-239-641-01	SPRING (1.2), TENSION		617	4-243-713-01	LEVER (LIFTER)	
606	4-239-642-01	SPRING (3), TENSION COIL		618	4-239-647-01	PARASOL (MAIN)	
607	4-239-679-01	SPRING (5), TENSION COIL		619	4-243-916-01	ROLLER (S), RUBBER	
608	4-243-714-01	PULLEY (B) (BU30), CHUCKING		620	4-241-599-01	LEVER (SUPPORT)	
609	4-239-649-01	PARASOL (STOCKER)		621	4-228-414-01	BRACKET (YOKE)	
610	4-240-040-01	SPRING (DISC STOPPER), TORSION		622	4-239-643-01	SPRING (4), TENSION COIL	
611	4-244-035-01	ROLLER (STOCKER), RUBBER		623	4-243-914-01	SPRING (LIFTER), TORSION	
612	4-239-640-01	PINION (SLIDER)		624	4-244-032-01	ROLLER, RUBBER	

9-11. CD MECHANISM DECK SECTION-4 (CDM69BV-30CBD64NS)



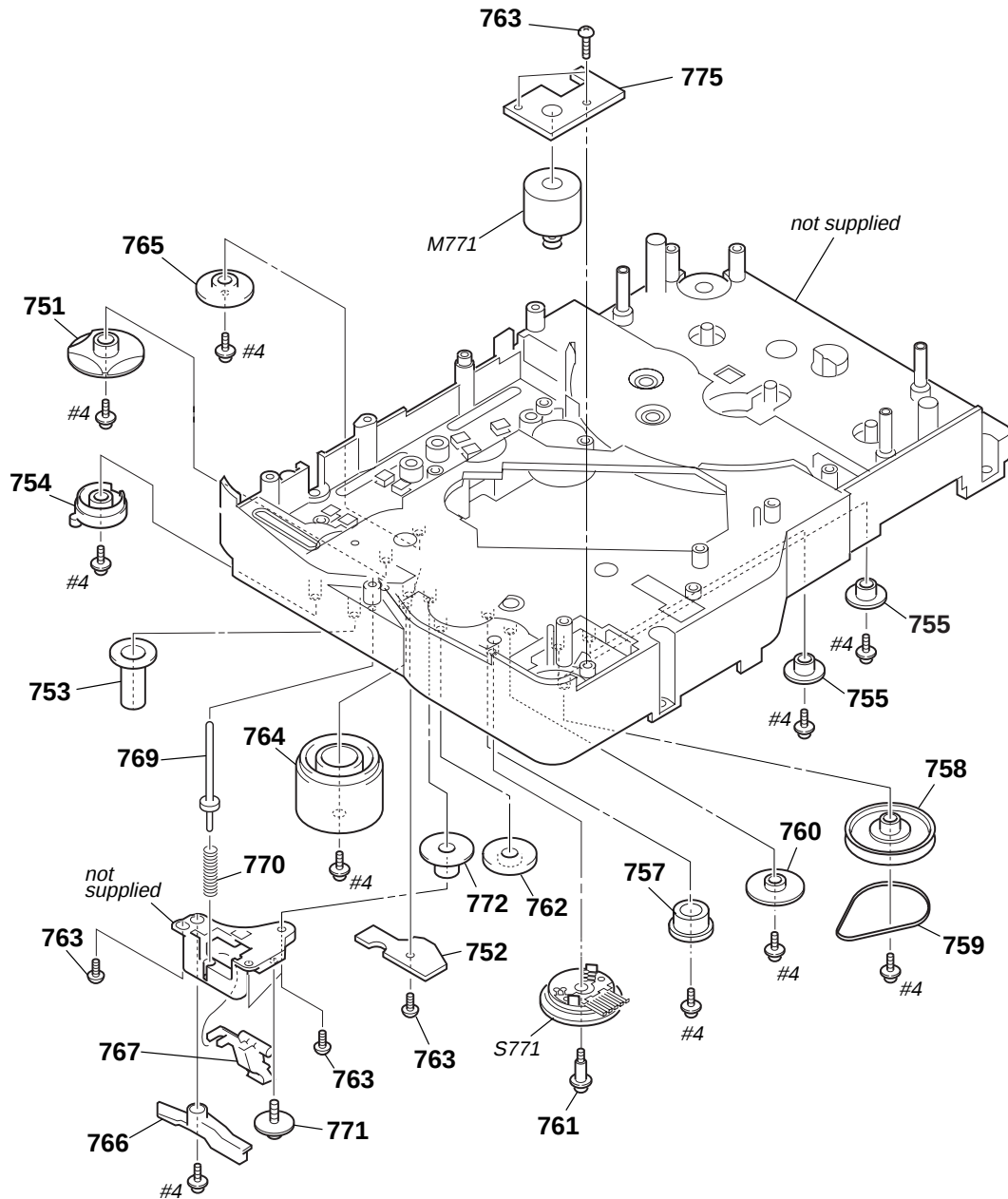
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
651	X-4954-626-1	LEVER (ROLLER) ASSY		665	4-240-041-01	SPRING (SLIDER 2), TENSION	
652	4-239-666-01	GEAR		666	4-951-620-01	SCREW (2.6X8), +BVTP	
653	4-239-668-01	LEVER (CENTER)		667	4-243-916-01	ROLLER (S), RUBBER	
654	4-239-652-01	SCREW (ROLLER), STEP		668	4-244-035-01	ROLLER (STOCKER), RUBBER	
655	4-239-669-01	GEAR (ROLLER COMMUNICATION)		669	4-241-209-01	SHEET, ADHESIVE	
656	4-239-667-01	GEAR (ROLLER CENTER)		670	4-239-649-01	PARASOL (STOCKER)	
657	4-239-647-01	PARASOL (MAIN)		671	4-239-671-01	GEAR (ROLLER 5 CENTER)	
658	4-244-032-01	ROLLER, RUBBER		672	X-4954-627-1	BASE (SLIDER 5) ASSY	
660	X-4954-622-1	BASE (SLIDER 2) ASSY		673	1-686-726-12	ROLLER MOTOR BOARD	
661	4-239-670-01	GEAR (ROLLER 5 COMMUNICATION)		675	4-244-162-01	SPRING (SLIDER 4), TENSION	
662	X-4954-624-A	LEVER (SLIDER 4) ASSY		M781	A-4735-953-A	MOTOR ASSY (ROLLER)	
663	4-992-069-01	SCREW (+PTPWH)(M2)(DIA. 7)		#6	7-623-921-01	WASHER 1.7, NYLON	
664	4-240-981-01	SPRING (BASE SLIDER 5), TENSION					

9-12. CD MECHANISM DECK SECTION-5 (CDM69BV-30CBD64NS)



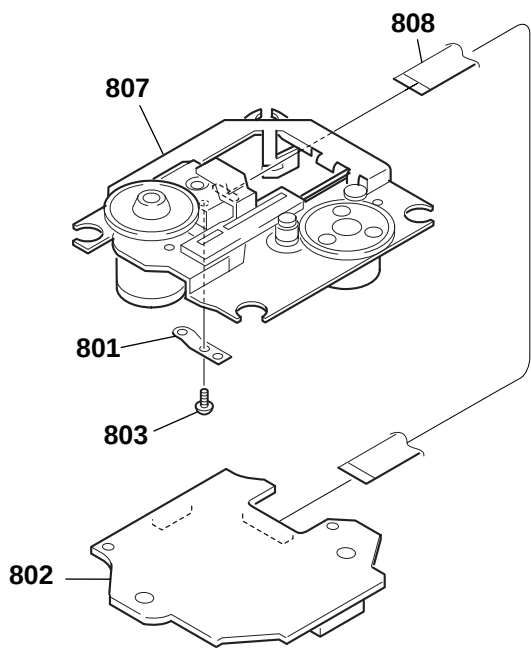
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
701	4-240-020-01	GEAR (TIMING)		706	4-239-699-01	PULLEY	
702	4-239-708-02	BELT (FRONT), TIMING		707	4-247-349-02	BELT (ROLLER V)	
703	4-239-697-01	GEAR (CENTER)		708	4-227-899-01	SCREW (DIA. 12), FLOATING	
704	X-4955-157-1	SLIDER (MODE CAM V) ASSY		709	4-239-686-01	GEAR (ROLLER DECELERATION)	
705	4-239-706-02	BELT (REAR), TIMING		#4	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

9-13. CD MECHANISM DECK SECTION-6 (CDM69BV-30CBD64NS)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
751	4-239-693-02	CAM (GEAR)		764	4-239-692-02	CAM (BU U/D)	
752	1-686-723-12	SENSOR BOARD		765	4-239-694-01	GEAR (MODE CAM)	
753	4-239-696-01	GEAR (EJECT LOCK)		766	4-241-731-01	SHUTTER (A), LEVER	
754	4-239-695-02	CAM (EJECT LOCK)		767	4-241-732-01	SHUTTER (B), LEVER	
755	4-240-019-01	GEAR (MODE 5)		769	4-241-734-01	SHAFT (SHUTTER)	
757	4-243-682-01	GEAR (MODE C)		770	4-241-735-01	SPRING (SHUTTER), COMPRESSION	
758	4-239-683-01	PULLEY (MODE DECELERATION)		771	4-685-672-01	SCREW (DIA. 12), FLOATING	
759	4-243-702-01	BELT (MODE V)		772	4-243-680-01	GEAR (MODE A)	
760	4-243-683-01	GEAR (MODE D)		775	1-686-724-12	MODE MOTOR BOARD	
761	4-239-618-01	SCREW (+PWH,2X6), STEP TAPPING		M771	A-4735-953-A	MOTOR ASSY (MODE)	
762	4-243-681-01	GEAR (MODE B)		S771	1-477-300-11	ENCODER, ROTARY (MODE)	
763	4-951-620-01	SCREW (2.6X8), +BVTP		#4	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

9-14. OPTICAL PICK-UP SECTION
(BU-30CBD64NS)



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
801	4-236-304-02	SPRING (SLED), LEAF		$\triangle$ 807	A-4735-189-A	BU-30 (61) ASSY	
802	A-4731-674-A	BD BOARD, COMPLETE		808	1-782-817-11	WIRE (FLAT TYPE)(16 CORE)	
803	3-372-761-01	SCREW (M1.7), TAPING					

SECTION 10

ELECTRICAL PARTS LIST

ACDC

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Abbreviation
E51 :Chilean and Peruvian models
MX : Mexican model

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . : μ A. . uPA. . : μ PA. .
uPB. . : μ PB. . uPC. . : μ PC. .
uPD. . : μ PD. .
- CAPACITORS
uF: μ F
- COILS
uH: μ H

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-4733-391-A	ACDC BOARD, COMPLETE (US)				< TERMINAL >	
	A-4733-418-A	ACDC BOARD, COMPLETE (E51)					
	A-4733-430-A	ACDC BOARD, COMPLETE (MX)		CLP007	1-537-933-31	TERMINAL	
	A-4733-432-A	ACDC BOARD, COMPLETE (AEP. UK)				< CONNECTOR >	

*	1-533-213-31	FUSE HOLDER (MX)		* CN003	1-564-516-11	PLUG, CONNECTOR 13P	
	1-533-217-31	FUSE HOLDER (US, E51)		CN006	1-564-507-11	PLUG, CONNECTOR 4P	
				CN011	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
		< CAPACITOR >				< DIODE >	
C001	1-130-777-00	MYLAR	0.1uF 5% 100V (US, E51, MX)	D002	8-719-500-56	DIODE D3SBA20 (US, AEP, UK)	
C002	1-130-777-00	MYLAR	0.1uF 5% 100V (US, E51, MX)	D002	8-719-510-68	DIODE D5SBA204101 (E51, MX)	
C003	1-130-777-00	MYLAR	0.1uF 5% 100V	D004	8-719-510-68	DIODE D5SBA204101 (US, AEP, UK)	
C004	1-130-777-00	MYLAR	0.1uF 5% 100V	D004	6-500-360-01	DIODE D10XB20 (E51, MX)	
C007	1-130-777-00	MYLAR	0.1uF 5% 100V	D005	8-719-801-78	DIODE 1SS184-TE85L	
C008	1-130-777-00	MYLAR	0.1uF 5% 100V	D006	8-719-820-05	DIODE 1SS181-TE85L	
C010	1-126-943-11	ELECT	2200uF 20% 25V (US, E51, MX)	D007	8-719-048-61	DIODE EGP20DL-6349 (US, E51, MX)	
C011	1-119-940-51	ELECT	4700uF 20% 50V (E51, MX)	D008	8-719-048-61	DIODE EGP20DL-6349 (US, E51, MX)	
C011	1-126-955-11	ELECT	4700uF 20% 35V (US, AEP, UK)	D009	8-719-048-61	DIODE EGP20DL-6349 (US, E51, MX)	
C012	1-119-940-51	ELECT	4700uF 20% 50V (E51, MX)	D010	8-719-048-61	DIODE EGP20DL-6349 (US, E51, MX)	
C012	1-126-955-11	ELECT	4700uF 20% 35V (US, AEP, UK)	D023	8-719-988-61	DIODE 1SS355TE-17	
C015	1-127-814-11	ELECT	3300uF 20% 80V (E51, MX)	D111	8-719-988-61	DIODE 1SS355TE-17	
C015	1-135-516-11	ELECT	3300uF 20% 63V (AEP, UK)	D112	8-719-820-05	DIODE 1SS181-TE85L	
C015	1-135-517-11	ELECT	3300uF 20% 71V (US)	D113	8-719-801-78	DIODE 1SS184-TE85L	
C016	1-127-814-11	ELECT	3300uF 20% 80V (E51, MX)	D114	8-719-801-78	DIODE 1SS184-TE85L	
C016	1-135-516-11	ELECT	3300uF 20% 63V (AEP, UK)			< GROUND TERMINAL >	
C016	1-135-517-11	ELECT	3300uF 20% 71V (US)	* EP001	1-537-738-21	TERMINAL, EARTH	
C029	1-126-941-11	ELECT	470uF 20% 25V			< TRANSFORMER >	
C120	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	Δ PT005	1-439-736-11	TRANSFORMER, POWER (E51)	
C121	1-126-964-11	ELECT	10uF 20% 50V	Δ PT006	1-439-734-11	TRANSFORMER, POWER (US)	
				Δ PT006	1-439-944-11	TRANSFORMER, POWER (MX)	
				Δ PT006	1-439-735-11	TRANSFORMER, POWER (AEP. UK)	
C122	1-126-963-11	ELECT	4.7uF 20% 50V			< TRANSISTOR >	
C123	1-126-957-11	ELECT	0.22uF 20% 50V				
C124	1-126-947-11	ELECT	47uF 20% 25V	Q101	8-729-120-28	TRANSISTOR 2SC3052F-T1-LF	

ACDC

AMP

Ref. No.	Part No.	Description				Remark
Q102	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			
Q103	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			
Q104	6-550-580-01	TRANSISTOR	2SA1235TP-1F			
Q105	6-550-580-01	TRANSISTOR	2SA1235TP-1F			
Q106	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			
Q107	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			
Q108	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			
Q109	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			
< RESISTOR >						
△R001	1-202-723-00	SOLID	2.2M	20%	1/2W	F (US)
R101	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R102	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R103	1-216-809-11	METAL CHIP	100	5%	1/10W	
R104	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R105	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R106	1-216-842-11	METAL CHIP	56K	5%	1/10W	
R107	1-216-842-11	METAL CHIP	56K	5%	1/10W	
R108	1-216-842-11	METAL CHIP	56K	5%	1/10W	
R109	1-216-842-11	METAL CHIP	56K	5%	1/10W	
R110	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R111	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R112	1-218-867-11	METAL CHIP	6.8K	5%	1/10W	
R113	1-216-206-00	RES-CHIP	2.2K	5%	1/8W	
R114	1-218-867-11	METAL CHIP	6.8K	5%	1/10W	
R115	1-216-834-11	METAL CHIP	12K	5%	1/10W	
R116	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R117	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R118	1-216-809-11	METAL CHIP	100	5%	1/10W	
R119	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R120	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R121	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R122	1-216-839-11	METAL CHIP	33K	5%	1/10W	
R123	1-216-839-11	METAL CHIP	33K	5%	1/10W	
R128	1-216-198-00	RES-CHIP	1K	5%	1/8W	
R130	1-216-836-11	METAL CHIP	18K	5%	1/10W	
R131	1-216-836-11	METAL CHIP	18K	5%	1/10W	
R132	1-216-840-11	METAL CHIP	39K	5%	1/10W	(EXCEPT US)
R132	1-216-841-11	METAL CHIP	47K	5%	1/10W	(US)
R133	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R134	1-216-844-11	METAL CHIP	82K	5%	1/10W	
R135	1-216-840-11	METAL CHIP	39K	5%	1/10W	(EXCEPT US)
R135	1-216-841-11	METAL CHIP	47K	5%	1/10W	(US)
R136	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R137	1-216-844-11	METAL CHIP	82K	5%	1/10W	
R138	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R139	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R140	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R147	1-216-236-11	RES-CHIP	39K	5%	1/8W	
R148	1-216-236-11	RES-CHIP	39K	5%	1/8W	
R156	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	
R157	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	(E51, MX)

Ref. No.	Part No.	Description				Remark
R157	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (US)	
R157	1-216-828-11	METAL CHIP	3.9K	5%	1/10W (AEP, UK)	
< RELAY >						
△ RY001	1-755-276-11	RELAY, POWER (EXCEPT E51)				
△ RY502	1-755-496-11	RELAY (E51)				
< SWITCH >						
△ S001	1-786-408-11	SW, SL 1-2-3 SWS2301 (VOLTAGE SELECTOR) (E51)				

	A-4733-393-A	AMP BOARD, COMPLETE (US)				
	A-4733-415-A	AMP BOARD, COMPLETE (E51, MX)				
	A-4733-434-A	AMP BOARD, COMPLETE (AEP, UK)				

< CAPACITOR >						
C001	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C002	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C003	1-126-947-11	ELECT	47uF	20%	25V	
C004	1-126-965-11	ELECT	22uF	20%	50V	
C005	1-126-965-11	ELECT	22uF	20%	50V	
C007	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C008	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C009	1-126-947-11	ELECT	47uF	20%	25V	
C025	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V	
C026	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
C301	1-126-960-11	ELECT	1uF	20%	50V	
C302	1-126-947-11	ELECT	47uF	20%	25V	
C303	1-126-947-11	ELECT	47uF	20%	25V	
C501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C502	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C505	1-164-162-11	CERAMIC CHIP	100PF	5%	100V	
C506	1-164-162-11	CERAMIC CHIP	100PF	5%	100V	
C507	1-164-162-11	CERAMIC CHIP	100PF	5%	100V	
C508	1-164-162-11	CERAMIC CHIP	100PF	5%	100V	
C509	1-164-733-11	CERAMIC CHIP	820PF	10%	50V	
C510	1-164-733-11	CERAMIC CHIP	820PF	10%	50V	
C511	1-126-966-11	ELECT	33uF	20%	50V	
C512	1-126-966-11	ELECT	33uF	20%	50V	
C513	1-126-965-11	ELECT	22uF	20%	50V	
C514	1-126-965-11	ELECT	22uF	20%	50V	
C517	1-126-959-11	ELECT	0.47uF	20%	50V	
C518	1-126-959-11	ELECT	0.47uF	20%	50V	
C519	1-115-414-11	CERAMIC CHIP	820PF	5%	25V	
C520	1-115-414-11	CERAMIC CHIP	820PF	5%	25V	
C521	1-126-963-11	ELECT	4.7uF	20%	50V	
C522	1-126-963-11	ELECT	4.7uF	20%	50V	
C523	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C524	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C528	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C536	1-126-956-91	ELECT	0.1uF	20%	50V	
C537	1-126-956-91	ELECT	0.1uF	20%	50V	
C575	1-164-156-11	CERAMIC CHIP	0.1uF		25V	
C630	1-162-961-11	CERAMIC CHIP	330PF	10%	50V	
C631	1-162-961-11	CERAMIC CHIP	330PF	10%	50V	

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

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C633	1-126-947-11	ELECT	47uF	20%	35V			< SHORT >			
C634	1-128-552-51	ELECT	47uF	20%	63V	JR511	1-216-296-00	SHORT CHIP	0		
C635	1-163-833-00	CERAMIC CHIP	0.068uF		25V	JR512	1-216-296-00	SHORT CHIP	0		
C636	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	JR513	1-216-864-11	SHORT CHIP	0		
C637	1-128-552-51	ELECT	47uF	20%	63V	JR514	1-216-864-11	SHORT CHIP	0		
C638	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	JR515	1-216-864-11	SHORT CHIP	0		
C640	1-162-961-11	CERAMIC CHIP	330PF	10%	50V	JR517	1-216-864-11	SHORT CHIP	0		
C641	1-126-947-11	ELECT	47uF	20%	35V	JR1113	1-216-864-11	SHORT CHIP	0 (US)		
C642	1-162-945-11	CERAMIC CHIP	22PF	5%	50V	JR1114	1-216-864-11	SHORT CHIP	0 (E51)		
C643	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	JR1115	1-216-864-11	SHORT CHIP	0 (MX)		
C645	1-162-961-11	CERAMIC CHIP	330PF	10%	50V						
< CONNECTOR >						JR1116	1-216-864-11	SHORT CHIP	0 (UK)		
						JR1117	1-216-864-11	SHORT CHIP	0 (AEP)		
						JR1130	1-216-864-11	SHORT CHIP	0 (AEP)		
* CN303	1-564-518-11	PLUG, CONNECTOR 3P				< TRANSISTOR >					
CN502	1-568-830-11	CONNECTOR, FFC 11P									
< DIODE >						Q012	8-729-271-31	TRANSISTOR	2SC2713G-TE85L		
D002	8-719-988-61	DIODE	1SS355TE-17			Q013	8-729-216-31	TRANSISTOR	2SA1163G-TE85L		
D020	8-719-801-78	DIODE	1SS184-TE85L			Q301	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
D301	8-719-801-78	DIODE	1SS184-TE85L			Q302	6-550-580-01	TRANSISTOR	2SA1235TP-1F		
D501	8-719-820-05	DIODE	1SS181-TE85L			Q303	8-729-201-53	TRANSISTOR	2SA1015TP-GR		
D502	8-719-820-05	DIODE	1SS181-TE85L								
D503	8-719-801-78	DIODE	1SS184-TE85L			Q505	8-729-216-31	TRANSISTOR	2SA1163G-TE85L		
D504	8-719-801-78	DIODE	1SS184-TE85L			Q506	8-729-216-31	TRANSISTOR	2SA1163G-TE85L		
D505	8-719-046-74	DIODE	AU-01Z-WS			Q507	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
D506	8-719-046-74	DIODE	AU-01Z-WS			Q508	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
D507	8-719-988-61	DIODE	1SS355TE-17			Q509	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
D508	8-719-988-61	DIODE	1SS355TE-17			Q510	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
D509	8-719-801-78	DIODE	1SS184-TE85L			Q511	8-729-823-91	TRANSISTOR	2SC2910ST-TP		
D510	8-719-820-05	DIODE	1SS181-TE85L			Q512	8-729-823-91	TRANSISTOR	2SC2910ST-TP		
D511	8-719-988-61	DIODE	1SS355TE-17			Q513	8-729-823-91	TRANSISTOR	2SC2910ST-TP		
D618	8-719-801-78	DIODE	1SS184-TE85L			Q514	8-729-823-91	TRANSISTOR	2SC2910ST-TP		
D619	8-719-820-05	DIODE	1SS181-TE85L			Q515	8-729-271-31	TRANSISTOR	2SC2713G-TE85L		
D623	8-719-988-61	DIODE	1SS355TE-17			Q516	8-729-271-31	TRANSISTOR	2SC2713G-TE85L		
D624	8-719-988-61	DIODE	1SS355TE-17			Q517	6-550-032-01	TRANSISTOR	HN4A06J-GRBL (TE85R)		
D625	8-719-060-80	DIODE	MA8180-L-TX			Q518	6-550-032-01	TRANSISTOR	HN4A06J-GRBL (TE85R)		
D626	8-719-312-08	DIODE	FMB-G16L			Q521	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
D627	8-719-312-08	DIODE	FMB-G16L			Q522	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
D629	8-719-988-61	DIODE	1SS355TE-17			Q523	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
D630	8-719-083-83	DIODE	UDZS-TE17-15B			Q524	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
D631	8-719-988-61	DIODE	1SS355TE-17			Q525	8-729-052-79	TRANSISTOR	2SD1306NETL		
D632	8-719-988-61	DIODE	1SS355TE-17			Q526	8-729-052-79	TRANSISTOR	2SD1306NETL		
D633	8-719-988-61	DIODE	1SS355TE-17			Q527	6-550-580-01	TRANSISTOR	2SA1235TP-1F		
D634	8-719-988-61	DIODE	1SS355TE-17			Q530	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
D635	8-719-988-61	DIODE	1SS355TE-17			Q610	8-729-216-31	TRANSISTOR	2SA1163G-TE85L		
D636	8-719-988-61	DIODE	1SS355TE-17			Q611	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
D637	8-719-988-61	DIODE	1SS355TE-17			Q617	6-550-580-01	TRANSISTOR	2SA1235TP-1F		
D638	8-719-988-61	DIODE	1SS355TE-17			Q618	6-550-040-01	FET	2SK3053		
< GROUND TERMINAL >						Q619	6-550-040-01	FET	2SK3053		
						Q620	6-550-317-01	TRANSISTOR	2SD814A (RS)		
* EP501	1-537-738-21	TERMINAL, EARTH				Q621	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF		
* EP502	1-537-738-21	TERMINAL, EARTH				Q622	6-550-316-01	TRANSISTOR	2SB792A (RS)		
< IC >						Q623	6-550-580-01	TRANSISTOR	2SA1235TP-1F		
						Q624	6-550-580-01	TRANSISTOR	2SA1235TP-1F		
< IC >						< RESISTOR >					
IC001	8-759-071-48	IC	TA7807S			R035	1-216-837-11	METAL CHIP	22K	5%	1/10W
IC003	8-759-231-58	IC	TA7812S			R036	1-216-837-11	METAL CHIP	22K	5%	1/10W
						R037	1-216-830-11	METAL CHIP	5.6K	5%	1/10W

AMP

Ref. No.	Part No.	Description			Remark
R065	1-216-073-00	RES-CHIP	10K	5%	1/10W
R066	1-216-085-00	RES-CHIP	33K	5%	1/10W
R067	1-216-089-11	RES-CHIP	47K	5%	1/10W
R068	1-216-833-11	METAL CHIP	10K	5%	1/10W
R090	1-216-073-00	RES-CHIP	10K	5%	1/10W
R301	1-216-841-11	METAL CHIP	47K	5%	1/10W
R302	1-216-853-11	METAL CHIP	470K	5%	1/10W
R303	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R304	1-216-813-11	METAL CHIP	220	5%	1/10W
R305	1-216-833-11	METAL CHIP	10K	5%	1/10W
R306	1-216-833-11	METAL CHIP	10K	5%	1/10W
R307	1-216-792-11	METAL CHIP	3.9	5%	1/10W
R311	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R312	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
△ R501	1-220-890-11	METAL	0.22	10%	3W F (US, E51, MX)
△ R502	1-220-890-11	METAL	0.22	10%	3W F (US, E51, MX)
△ R503	1-220-890-11	METAL	0.22	10%	3W F (US, E51, MX)
△ R504	1-220-890-11	METAL	0.22	10%	3W F (US, E51, MX)
R505	1-216-809-11	METAL CHIP	100	5%	1/10W
R506	1-216-809-11	METAL CHIP	100	5%	1/10W
R507	1-216-822-11	METAL CHIP	1.2K	5%	1/10W (US, E51, MX)
R507	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (AEP, UK)
R508	1-216-822-11	METAL CHIP	1.2K	5%	1/10W (US, E51, MX)
R508	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (AEP, UK)
R509	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R510	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R511	1-216-821-11	METAL CHIP	1K	5%	1/10W
R512	1-216-821-11	METAL CHIP	1K	5%	1/10W
R513	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R514	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R515	1-216-033-00	METAL CHIP	220	5%	1/10W
R516	1-216-033-00	METAL CHIP	220	5%	1/10W
R517	1-216-015-00	METAL CHIP	39	5%	1/10W
R518	1-216-015-00	METAL CHIP	39	5%	1/10W
R519	1-216-015-00	METAL CHIP	39	5%	1/10W
R520	1-216-015-00	METAL CHIP	39	5%	1/10W
R521	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R522	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R523	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R524	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R525	1-216-821-11	METAL CHIP	1K	5%	1/10W
R526	1-216-821-11	METAL CHIP	1K	5%	1/10W
R527	1-216-841-11	METAL CHIP	47K	5%	1/10W
R528	1-216-841-11	METAL CHIP	47K	5%	1/10W
R529	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R530	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R531	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R532	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R533	1-216-809-11	METAL CHIP	100	5%	1/10W
R534	1-216-809-11	METAL CHIP	100	5%	1/10W
R535	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R536	1-216-809-11	METAL CHIP	100	5%	1/10W
R537	1-247-713-11	CARBON	1K	5%	1/2W (E51, MX)
R537	1-249-923-11	CARBON	1K	5%	1/4W (US, AEP, UK)
R538	1-247-713-11	CARBON	1K	5%	1/4W (E51, MX)
R538	1-249-923-11	CARBON	1K	5%	1/4W (US, AEP, UK)
R539	1-216-833-11	METAL CHIP	10K	5%	1/10W
R540	1-216-833-11	METAL CHIP	10K	5%	1/10W
R541	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R542	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R543	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R544	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R545	1-216-809-11	METAL CHIP	100	5%	1/10W
R546	1-216-809-11	METAL CHIP	100	5%	1/10W
R547	1-216-083-00	METAL CHIP	27K	5%	1/10W
R548	1-216-083-00	METAL CHIP	27K	5%	1/10W
R549	1-216-039-00	RES-CHIP	390	5%	1/10W (E51, MX)
R549	1-216-041-00	METAL CHIP	470	5%	1/10W (US)
R549	1-216-043-00	RES-CHIP	560	5%	1/10W (AEP, UK)
R550	1-216-039-00	RES-CHIP	390	5%	1/10W (E51, MX)
R550	1-216-041-00	METAL CHIP	470	5%	1/10W (US)
R550	1-216-043-00	RES-CHIP	560	5%	1/10W (AEP, UK)
R553	1-216-838-11	METAL CHIP	27K	5%	1/10W
R554	1-216-838-11	METAL CHIP	27K	5%	1/10W
R555	1-216-845-11	METAL CHIP	100K	5%	1/10W
R556	1-216-845-11	METAL CHIP	100K	5%	1/10W
R557	1-216-821-11	METAL CHIP	1K	5%	1/10W
R558	1-216-821-11	METAL CHIP	1K	5%	1/10W
R559	1-216-063-00	RES-CHIP	3.9K	5%	1/10W
R560	1-216-063-00	RES-CHIP	3.9K	5%	1/10W
R561	1-216-843-11	METAL CHIP	68K	5%	1/10W
R562	1-216-857-11	METAL CHIP	1M	5%	1/10W
R564	1-216-864-11	SHORT CHIP	0		
R574	1-216-009-00	RES-CHIP	22	5%	1/10W
R575	1-216-833-11	METAL CHIP	10K	5%	1/10W
R576	1-216-833-11	METAL CHIP	10K	5%	1/10W
R591	1-216-845-11	METAL CHIP	100K	5%	1/10W
R592	1-216-835-11	METAL CHIP	15K	5%	1/10W
△ R595	1-220-755-11	METAL	0.22	10%	2W F (AEP, UK)
△ R595	1-217-153-00	METAL	0.47	10%	2W F (E51, MX)
△ R596	1-220-755-11	METAL	0.22	10%	2W F (AEP, UK)
△ R596	1-217-153-00	METAL	0.47	10%	2W F (E51, MX)
△ R597	1-220-755-11	METAL	0.22	10%	2W F (AEP, UK)
△ R597	1-217-153-00	METAL	0.47	10%	2W F (E51, MX)

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

AMP

BD

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
△ R598	1-220-755-11	METAL	0.22	10%	2W F (AEP, UK)	R698	1-216-053-00	METAL CHIP	1.5K	5%	1/10W (E51, MX)
△ R598	1-217-153-00	METAL	0.47	10%	2W F (E51, MX)	R698	1-216-055-00	METAL CHIP	1.8K	5%	1/10W (US, AEP, UK)
R626	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	R699	1-249-423-11	CARBON	3.3K	5%	1/4W
R627	1-216-833-11	METAL CHIP	10K	5%	1/10W			< RELAY >			
R641	1-216-081-00	METAL CHIP	22K	5%	1/10W						
R642	1-216-055-00	METAL CHIP	1.8K	5%	1/10W (E51, MX)	RY501	1-755-307-11	RELAY			
R642	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (US, AEP, UK)			< THERMISTOR >			
R643	1-216-055-00	METAL CHIP	1.8K	5%	1/10W (E51, MX)	TH501	1-803-790-21	THERMISTOR			
R643	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (US, AEP, UK)	TH502	1-803-790-21	THERMISTOR			
R645	1-216-841-11	METAL CHIP	47K	5%	1/10W	*****					
R646	1-216-841-11	METAL CHIP	47K	5%	1/10W	A-4731-674-A	BD BOARD, COMPLETE				
R647	1-216-837-11	METAL CHIP	22K	5%	1/10W	*****					
R648	1-216-849-11	METAL CHIP	220K	5%	1/10W	< CAPACITOR/SHORT >					
R649	1-216-849-11	METAL CHIP	220K	5%	1/10W	C101	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
R650	1-216-833-11	METAL CHIP	10K	5%	1/10W	C102	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R651	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C103	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
R652	1-216-841-11	METAL CHIP	47K	5%	1/10W	C104	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
R653	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	C107	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
R654	1-216-835-11	METAL CHIP	15K	5%	1/10W	C108	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R655	1-249-419-11	CARBON	1.5K	5%	1/4W	C109	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R656	1-249-420-11	CARBON	1.8K	5%	1/4W	C110	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R658	1-216-186-00	RES-CHIP	330	5%	1/8W	C111	1-126-607-11	ELECT CHIP	47uF	20%	4V
R659	1-216-184-00	RES-CHIP	270	5%	1/8W	C112	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R660	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	C113	1-128-995-21	ELECT CHIP	100uF	20%	10V
R661	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	C114	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
R662	1-216-833-11	METAL CHIP	10K	5%	1/10W	C115	1-128-995-21	ELECT CHIP	100uF	20%	10V
R663	1-216-833-11	METAL CHIP	10K	5%	1/10W	C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R664	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	C117	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R669	1-216-833-11	METAL CHIP	10K	5%	1/10W	C118	1-115-156-11	CERAMIC CHIP	1uF		10V
R670	1-216-835-11	METAL CHIP	15K	5%	1/10W	C119	1-115-156-11	CERAMIC CHIP	1uF		10V
R671	1-216-833-11	METAL CHIP	10K	5%	1/10W	C121	1-216-864-11	SHORT CHIP	0		
R672	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C122	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R674	1-216-238-91	RES-CHIP	47K	5%	1/8W	C131	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
R675	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C132	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
R676	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	C133	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
R677	1-216-061-00	RES-CHIP	3.3K	5%	1/10W	C150	1-128-394-11	ELECT CHIP	220uF	20%	10V
R678	1-216-234-00	RES-CHIP	33K	5%	1/8W	C151	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R679	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	C152	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R681	1-259-583-11	CARBON	15K	5%	1/2W	C153	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R682	1-216-835-11	METAL CHIP	15K	5%	1/10W	C156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R683	1-216-214-00	RES-CHIP	4.7K	5%	1/8W	C169	1-128-394-11	ELECT CHIP	220uF	20%	10V
R685	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C202	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R686	1-249-423-11	CARBON	3.3K	5%	1/4W	C203	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
R691	1-216-176-11	RES-CHIP	120	5%	1/8W	C205	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R692	1-249-423-11	CARBON	3.3K	5%	1/4W	C208	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R693	1-249-423-11	CARBON	3.3K	5%	1/4W	C209	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
R694	1-216-833-11	METAL CHIP	10K	5%	1/10W	C211	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R695	1-249-433-11	CARBON	22K	5%	1/4W	C212	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
R696	1-216-226-00	RES-CHIP	15K	5%	1/8W	C213	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
R697	1-216-053-00	METAL CHIP	1.5K	5%	1/10W (E51, MX)	C215	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
R697	1-216-055-00	METAL CHIP	1.8K	5%	1/10W (US, AEP, UK)	C216	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C222	1-164-360-11	CERAMIC CHIP	0.1uF		16V
						C224	1-115-156-11	CERAMIC CHIP	1uF		10V

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

Ref. No.	Part No.	Description	Remark
C226	1-126-607-11	ELECT CHIP 47uF 20% 4V	
C227	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C229	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C230	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C231	1-100-588-21	ELECT CHIP 1000uF 20% 6.3V	
C249	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C250	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C251	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C253	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C254	1-162-919-11	CERAMIC CHIP 22PF 5% 50V	
C255	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C256	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C257	1-128-934-11	CERAMIC CHIP 0.33uF 20% 10V	
C258	1-162-919-11	CERAMIC CHIP 22PF 5% 50V	
C259	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C260	1-128-590-11	ELECT CHIP 100uF 20% 6.3V	
C261	1-126-246-11	ELECT CHIP 220uF 20% 4V	
C263	1-126-607-11	ELECT CHIP 47uF 20% 4V	
C264	1-126-607-11	ELECT CHIP 47uF 20% 4V	
C265	1-126-607-11	ELECT CHIP 47uF 20% 4V	
C266	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C267	1-162-968-11	CERAMIC CHIP 0.0047uF 10% 50V	
C268	1-162-968-11	CERAMIC CHIP 0.0047uF 10% 50V	
C269	1-126-607-11	ELECT CHIP 47uF 20% 4V	
C270	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
C271	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C272	1-216-864-11	SHORT CHIP 0	
C273	1-162-960-11	CERAMIC CHIP 220PF 10% 50V	
C274	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C292	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C310	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C313	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
C314	1-115-156-11	CERAMIC CHIP 1uF 10V	
C316	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
< CONNECTOR >			
CN101	1-794-424-11	CONNECTOR, FCC/FPC 16P	
CN102	1-784-834-21	CONNECTOR, FFC (LIF (NON-ZIF)) 23P	
CN104	1-784-863-21	CONNECTOR, FFC (LIF (NON-ZIF)) 11P	
< SHORT/FERRITE BEAD >			
FB102	1-216-864-11	SHORT CHIP 0	
FB103	1-216-864-11	SHORT CHIP 0	
FB104	1-216-864-11	SHORT CHIP 0	
* FB161	1-469-670-21	FERRITE 0uH	
FB201	1-216-295-00	SHORT CHIP 0	
FB203	1-216-864-11	SHORT CHIP 0	
FB204	1-216-295-00	SHORT CHIP 0	
FB291	1-216-864-11	SHORT CHIP 0	
FB351	1-216-864-11	SHORT CHIP 0	
< IC >			
IC101	8-752-408-73	IC CXD3068Q	
IC102	8-759-713-70	IC AN41020A	
IC103	8-752-106-21	IC CXA2647N-T4	
IC104	6-701-810-01	IC TC94A20F-CX4	
IC121	6-700-394-01	IC BA25BC0FP-E2	

Ref. No.	Part No.	Description	Remark
< SHORT >			
JR1	1-216-864-11	SHORT CHIP 0	
< COIL >			
L101	1-412-032-11	INDUCTOR CHIP 100uH	
L163	1-216-864-11	SHORT CHIP 0	
< TRANSISTOR >			
Q101	8-729-046-90	TRANSISTOR 2SB970-(TX).S0	
< RESISTOR/CAPACITOR >			
R101	1-216-864-11	SHORT CHIP 0	
R102	1-216-835-11	METAL CHIP 15K 5% 1/10W	
R103	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R104	1-216-835-11	METAL CHIP 15K 5% 1/10W	
R105	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R111	1-216-847-11	METAL CHIP 150K 5% 1/10W	
R113	1-218-701-11	METAL CHIP 2.4K 5% 1/10W	
R114	1-216-852-11	METAL CHIP 390K 5% 1/10W	
R115	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R116	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R117	1-216-846-11	METAL CHIP 120K 5% 1/10W	
R118	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R120	1-216-846-11	METAL CHIP 120K 5% 1/10W	
R122	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R123	1-216-791-11	METAL CHIP 3.3 5% 1/10W	
R125	1-216-840-11	METAL CHIP 39K 5% 1/10W	
R126	1-216-840-11	METAL CHIP 39K 5% 1/10W	
R131	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R132	1-216-851-11	METAL CHIP 330K 5% 1/10W	
R133	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R151	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R152	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R155	1-216-864-11	SHORT CHIP 0	
R162	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R163	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R166	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R167	1-216-864-11	SHORT CHIP 0	
R168	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R169	1-216-864-11	SHORT CHIP 0	
R199	1-216-864-11	SHORT CHIP 0	
R201	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R202	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R203	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R204	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R205	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R206	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R207	1-216-857-11	METAL CHIP 1M 5% 1/10W	
R216	1-216-857-11	METAL CHIP 1M 5% 1/10W	
R218	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R219	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R220	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R221	1-216-809-11	METAL CHIP 100 5% 1/10W	
R222	1-216-809-11	METAL CHIP 100 5% 1/10W	
R223	1-216-809-11	METAL CHIP 100 5% 1/10W	
R224	1-216-809-11	METAL CHIP 100 5% 1/10W	

BD

CONNECTOR

DECK

Ref. No.	Part No.	Description			Remark
R225	1-216-809-11	METAL CHIP	100	5%	1/10W
R226	1-216-809-11	METAL CHIP	100	5%	1/10W
R227	1-216-809-11	METAL CHIP	100	5%	1/10W
R230	1-216-811-11	METAL CHIP	150	5%	1/10W
R231	1-216-815-11	METAL CHIP	330	5%	1/10W
R232	1-216-815-11	METAL CHIP	330	5%	1/10W
R233	1-216-815-11	METAL CHIP	330	5%	1/10W
R249	1-216-818-11	METAL CHIP	560	5%	1/10W
R250	1-216-813-11	METAL CHIP	220	5%	1/10W
R251	1-216-813-11	METAL CHIP	220	5%	1/10W
R252	1-216-857-11	METAL CHIP	1M	5%	1/10W
R253	1-216-821-11	METAL CHIP	1K	5%	1/10W
R255	1-216-809-11	METAL CHIP	100	5%	1/10W
R257	1-216-809-11	METAL CHIP	100	5%	1/10W
R259	1-216-809-11	METAL CHIP	100	5%	1/10W
R260	1-216-821-11	METAL CHIP	1K	5%	1/10W
R261	1-164-360-11	CERAMIC CHIP	0.1uF		16V
R265	1-216-813-11	METAL CHIP	220	5%	1/10W
R266	1-216-813-11	METAL CHIP	220	5%	1/10W
R271	1-216-833-11	METAL CHIP	10K	5%	1/10W
R272	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R275	1-216-833-11	METAL CHIP	10K	5%	1/10W
R276	1-216-809-11	METAL CHIP	100	5%	1/10W
R279	1-216-809-11	METAL CHIP	100	5%	1/10W
R284	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
R291	1-216-864-11	SHORT CHIP	0		
R303	1-216-864-11	SHORT CHIP	0		
R308	1-216-864-11	SHORT CHIP	0		
R309	1-216-864-11	SHORT CHIP	0		
R310	1-216-864-11	SHORT CHIP	0		
R311	1-216-864-11	SHORT CHIP	0		
R313	1-216-864-11	SHORT CHIP	0		
R314	1-216-864-11	SHORT CHIP	0		
R316	1-216-864-11	SHORT CHIP	0		
R318	1-216-864-11	SHORT CHIP	0		
R319	1-216-864-11	SHORT CHIP	0		
R321	1-216-864-11	SHORT CHIP	0		
R351	1-216-864-11	SHORT CHIP	0		
< VARIABLE RESISTOR >					
RV101	1-223-997-21	RES, CARBON ADJ VAR 47K			
< VIBRATOR >					
X201	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHZ)			

A-4731-113-A	CONNECTOR BOARD, COMPLETE				

< CAPACITOR >					
C711	1-126-795-11	ELECT	10uF	20%	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
C755	1-164-159-21	CERAMIC	0.1uF		50V
C756	1-164-159-21	CERAMIC	0.1uF		50V
C758	1-164-159-21	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description	Remark		
C761	1-162-306-11	CERAMIC	0.01uF	30%	16V
C762	1-164-159-21	CERAMIC	0.1uF		50V
C763	1-164-159-21	CERAMIC	0.1uF		50V
C764	1-164-159-21	CERAMIC	0.1uF		50V
C765	1-164-159-21	CERAMIC	0.1uF		50V
C766	1-164-159-21	CERAMIC	0.1uF		50V
C767	1-164-159-21	CERAMIC	0.1uF		50V
C768	1-164-159-21	CERAMIC	0.1uF		50V
C769	1-164-159-21	CERAMIC	0.1uF		50V
C771	1-162-306-11	CERAMIC	0.01uF	30%	16V
C781	1-162-306-11	CERAMIC	0.01uF	30%	16V
< 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		
< 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
R702	1-247-807-31	CARBON	100	5%	1/4W
R711	1-249-415-11	CARBON	680	5%	1/4W
R712	1-247-807-31	CARBON	100	5%	1/4W
R721	1-249-415-11	CARBON	680	5%	1/4W
R722	1-247-807-31	CARBON	100	5%	1/4W
R731	1-247-806-11	CARBON	91	5%	1/4W
R732	1-249-417-11	CARBON	1K	5%	1/4W
R733	1-249-429-11	CARBON	10K	5%	1/4W
R734	1-249-429-11	CARBON	10K	5%	1/4W

A-4733-420-A		DECK BOARD, COMPLETE (EXCEPT US)			

< CAPACITOR >					
C303	1-164-647-11	CERAMIC CHIP	0.0012uF	10%	50V
C304	1-164-647-11	CERAMIC CHIP	0.0012uF	10%	50V
C307	1-104-665-11	ELECT	100uF	20%	10V
C308	1-104-665-11	ELECT	100uF	20%	10V
C309	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C310	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C313	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C314	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C315	1-126-964-11	ELECT	220uF	20%	16V
C317	1-126-956-91	ELECT	0.1uF	20%	50V

DECK

Ref. No.	Part No.	Description	Remark		
C318	1-126-956-91	ELECT	0.1uF	20%	50V
C325	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C326	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C327	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C360	1-126-964-11	ELECT	220uF	20%	16V
C399	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C401	1-126-956-91	ELECT	0.1uF	20%	50V
C402	1-126-956-91	ELECT	0.1uF	20%	50V
C403	1-162-926-11	CERAMIC CHIP	82PF	5%	50V
C404	1-162-926-11	CERAMIC CHIP	82PF	5%	50V
C405	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C406	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C407	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C408	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C409	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C410	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C411	1-126-964-11	ELECT	10uF	20%	50V
C412	1-126-964-11	ELECT	10uF	20%	50V
C413	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C452	1-128-551-11	ELECT	22uF	20%	25V
C453	1-164-650-91	CERAMIC CHIP	0.0027uF	10%	50V
C454	1-164-650-91	CERAMIC CHIP	0.0027uF	10%	50V
C455	1-164-650-91	CERAMIC CHIP	0.0027uF	10%	50V
C456	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C457	1-137-459-11	MYLAR	0.0056uF	5%	100V
C458	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C459	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C460	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C461	1-164-392-11	CERAMIC CHIP	390PF	5%	50V
C462	1-164-392-11	CERAMIC CHIP	390PF	5%	50V
< CONNECTOR >					
CN008	1-568-830-11	CONNECTOR, FFC 11P			
* CN302	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			
< DIODE >					
D401	8-719-988-61	DIODE 1SS355TE-17			
< GROUND TERMINAL >					
* EP301	1-537-738-21	TERMINAL, EARTH			
< SHORT >					
FB301	1-216-864-11	SHORT CHIP	0		
< IC >					
IC301	6-702-457-01	IC NJM14558M-TE2			
IC401	6-702-457-01	IC NJM14558M-TE2			
< SHORT >					
JR302	1-216-295-00	SHORT CHIP	0		
JR303	1-216-864-11	SHORT CHIP	0		
JR304	1-216-864-11	SHORT CHIP	0		
JR318	1-216-864-11	SHORT CHIP	0		
JR319	1-216-864-11	SHORT CHIP	0		
JR320	1-216-864-11	SHORT CHIP	0		
JR321	1-216-296-00	SHORT CHIP	0		
JR322	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description	Remark		
JR401	1-216-295-00	SHORT CHIP	0		
JR402	1-216-296-00	SHORT CHIP	0		
< COIL >					
L451	1-456-094-11	COIL, OSC	85KHZ	BIAS	
< TRANSISTOR >					
Q305	6-550-290-01	FET	2SJ460		
Q306	8-729-034-49	TRANSISTOR	KRC104S		
Q307	6-550-290-01	FET	2SJ460		
Q308	6-550-290-01	FET	2SJ460		
Q309	8-729-230-69	TRANSISTOR	2SA1362G		
Q310	8-729-230-69	TRANSISTOR	2SA1362G		
Q443	8-729-230-69	TRANSISTOR	2SA1362G		
Q444	8-729-230-69	TRANSISTOR	2SA1362G		
Q451	6-550-297-01	TRANSISTOR	2SA1981Y		
Q453	8-729-036-89	TRANSISTOR	KTC3198GR-A		
Q454	8-729-036-89	TRANSISTOR	KTC3198GR-A		
< RESISTOR >					
R303	1-216-844-11	METAL CHIP	82K	5%	1/10W
R304	1-216-844-11	METAL CHIP	82K	5%	1/10W
R305	1-216-849-11	METAL CHIP	220K	5%	1/10W
R306	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R307	1-216-817-11	METAL CHIP	470	5%	1/10W
R308	1-216-817-11	METAL CHIP	470	5%	1/10W
R309	1-216-806-11	METAL CHIP	56	5%	1/10W
R310	1-216-806-11	METAL CHIP	56	5%	1/10W
R313	1-216-836-11	METAL CHIP	18K	5%	1/10W
R314	1-216-836-11	METAL CHIP	18K	5%	1/10W
R315	1-216-852-11	METAL CHIP	390K	5%	1/10W
R316	1-216-852-11	METAL CHIP	390K	5%	1/10W
R317	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R318	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R319	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R321	1-216-864-11	SHORT CHIP	0		
R322	1-216-864-11	SHORT CHIP	0		
R323	1-216-174-11	RES-CHIP	100	5%	1/8W
R375	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R376	1-216-821-11	METAL CHIP	1K	5%	1/10W
R399	1-216-857-11	METAL CHIP	1M	5%	1/10W
R401	1-216-846-11	METAL CHIP	120K	5%	1/10W
R402	1-216-846-11	METAL CHIP	120K	5%	1/10W
R403	1-216-821-11	METAL CHIP	1K	5%	1/10W
R404	1-216-821-11	METAL CHIP	1K	5%	1/10W
R405	1-216-841-11	METAL CHIP	47K	5%	1/10W
R406	1-216-841-11	METAL CHIP	47K	5%	1/10W
R407	1-216-821-11	METAL CHIP	1K	5%	1/10W
R408	1-216-821-11	METAL CHIP	1K	5%	1/10W
R409	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R410	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R411	1-216-835-11	METAL CHIP	15K	5%	1/10W
R412	1-216-835-11	METAL CHIP	15K	5%	1/10W
R413	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R414	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R415	1-216-819-11	METAL CHIP	680	5%	1/10W
R416	1-216-819-11	METAL CHIP	680	5%	1/10W

DECK						HEADPHONE						JOG						KEY LED RMC					
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R417	1-216-833-11	METAL CHIP	10K	5%	1/10W			< RESISTOR >															
R418	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R419	1-216-821-11	METAL CHIP	1K	5%	1/10W																		
R420	1-216-821-11	METAL CHIP	1K	5%	1/10W																		
R421	1-216-837-11	METAL CHIP	22K	5%	1/10W																		
R422	1-216-837-11	METAL CHIP	22K	5%	1/10W																		
R423	1-216-836-11	METAL CHIP	18K	5%	1/10W																		
R424	1-216-836-11	METAL CHIP	18K	5%	1/10W																		
R425	1-216-833-11	METAL CHIP	10K	5%	1/10W																		
R453	1-216-663-91	METAL CHIP	3.3K		1/10W																		
R454	1-216-148-00	RES-CHIP	8.2	5%	1/8W																		
R455	1-216-836-11	METAL CHIP	18K	5%	1/10W																		
R456	1-216-836-11	METAL CHIP	18K	5%	1/10W																		
R457	1-249-395-11	CARBON	15	5%	1/4W																		
R458	1-216-845-11	METAL CHIP	100K	5%	1/10W																		
R459	1-216-154-00	RES-CHIP	15	5%	1/8W																		
R460	1-249-399-11	CARBON	33	5%	1/4W																		
R465	1-216-845-11	METAL CHIP	100K	5%	1/10W																		
R466	1-216-845-11	METAL CHIP	100K	5%	1/10W																		
		< VARIABLE RESISTOR >																					
SFR451	1-241-766-11	RES, ADJ, CARBON 33K																					
SFR452	1-241-766-11	RES, ADJ, CARBON 33K																					

	1-688-414-11	HEADPHONE BOARD																					

		< CAPACITOR >																					
C550	1-115-467-11	CERAMIC CHIP	0.22	10%	10V																		
		< CONNECTOR >																					
* CN530	1-564-520-11	PLUG, CONNECTOR 5P																					
		< JACK >																					
J521	1-566-891-21	JACK (PHONES)																					
		< SHORT >																					
JR501	1-216-296-00	SHORT CHIP	0																				
		< RESISTOR >																					
R521	1-216-206-00	RES-CHIP	2.2K	5%	1/8W																		
R522	1-216-206-00	RES-CHIP	2.2K	5%	1/8W																		
R523	1-249-659-31	CARBON	270	5%	1/2W																		
R524	1-249-659-31	CARBON	270	5%	1/2W																		
R525	1-249-659-31	CARBON	270	5%	1/2W																		
R526	1-249-659-31	CARBON	270	5%	1/2W																		

	1-688-413-11	JOG BOARD																					

		< CAPACITOR >																					
C370	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V																		
C371	1-162-927-11	CERAMIC CHIP	100PF	5%	50V																		
C372	1-162-927-11	CERAMIC CHIP	100PF	5%	50V																		
		< LED >																					
LED631	8-719-057-28	LED	SML78420C-TP15	(DISC INDICATOR 1)																			
LED632	8-719-057-28	LED	SML78420C-TP15	(DISC INDICATOR 2)																			
LED633	8-719-057-28	LED	SML78420C-TP15	(DISC INDICATOR 3)																			
LED634	8-719-057-28	LED	SML78420C-TP15	(DISC INDICATOR 4)																			
LED635	8-719-057-28	LED	SML78420C-TP15	(DISC INDICATOR 5)																			
		< TRANSISTOR >																					
Q601	6-550-336-01	TRANSISTOR	FMA9AT148																				
Q602	6-550-336-01	TRANSISTOR	FMA9AT148																				
Q603	6-550-336-01	TRANSISTOR	FMA9AT148																				

KEY LED RMC

LCD VOL

Ref. No.	Part No.	Description	Remark		
Q604	6-550-336-01	TRANSISTOR	FMA9AT148		
Q605	6-550-336-01	TRANSISTOR	FMA9AT148		
< RESISTOR >					
R310	1-216-835-11	METAL CHIP	15K	5%	1/10W
R311	1-216-816-11	METAL CHIP	390	5%	1/10W
R312	1-216-819-11	METAL CHIP	680	5%	1/10W
R313	1-216-821-11	METAL CHIP	1K	5%	1/10W
R314	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R315	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R316	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R317	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R318	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R319	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R320	1-216-833-11	METAL CHIP	10K	5%	1/10W
R330	1-216-835-11	METAL CHIP	15K	5%	1/10W
R331	1-216-816-11	METAL CHIP	390	5%	1/10W
R332	1-216-819-11	METAL CHIP	680	5%	1/10W
R333	1-216-821-11	METAL CHIP	1K	5%	1/10W
R334	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R601	1-216-833-11	METAL CHIP	10K	5%	1/10W
R602	1-216-833-11	METAL CHIP	10K	5%	1/10W
R603	1-216-833-11	METAL CHIP	10K	5%	1/10W
R604	1-216-833-11	METAL CHIP	10K	5%	1/10W
R605	1-216-833-11	METAL CHIP	10K	5%	1/10W
R606	1-216-833-11	METAL CHIP	10K	5%	1/10W
R607	1-216-842-11	METAL CHIP	56K	5%	1/10W
R608	1-216-805-11	METAL CHIP	47	5%	1/10W
R611	1-216-809-11	METAL CHIP	100	5%	1/10W
R616	1-216-198-00	RES-CHIP	1K	5%	1/8W
R617	1-216-192-00	METAL CHIP	560	5%	1/8W
R618	1-216-192-00	METAL CHIP	560	5%	1/8W
R619	1-216-192-00	METAL CHIP	560	5%	1/8W
R620	1-216-192-00	METAL CHIP	560	5%	1/8W
R621	1-216-192-00	METAL CHIP	560	5%	1/8W
R622	1-216-192-00	METAL CHIP	560	5%	1/8W
R623	1-216-192-00	METAL CHIP	560	5%	1/8W
R624	1-216-192-00	METAL CHIP	560	5%	1/8W
R625	1-216-192-00	METAL CHIP	560	5%	1/8W
R626	1-216-192-00	METAL CHIP	560	5%	1/8W
< SWITCH >					
S311	1-771-410-21	SWITCH, TACTILE (DISC SELECT 1)			
S312	1-771-410-21	SWITCH, TACTILE (DISC SELECT 2)			
S313	1-771-410-21	SWITCH, TACTILE (DISC SELECT 3)			
S314	1-771-410-21	SWITCH, TACTILE (DISC SELECT 4)			
S315	1-771-410-21	SWITCH, TACTILE (DISC SELECT 5)			
S316	1-771-410-21	SWITCH, TACTILE (EJECT ▲)			
S317	1-771-410-21	SWITCH, TACTILE (PAUSE/SET ■)			
S318	1-771-410-21	SWITCH, TACTILE (STOP/CLEAR ■)			
S319	1-771-410-21	SWITCH, TACTILE (PLAY MODE) (US)			
S319	1-771-410-21	SWITCH, TACTILE (REC ●) (EXCEPT US)			
S320	1-771-410-21	SWITCH, TACTILE (PRESET ►) (US)			
S320	1-771-410-21	SWITCH, TACTILE (PRESET ◀►) (EXCEPT US)			
S331	1-771-410-21	SWITCH, TACTILE (ALBUM/PLAY LIST ▲)			
S332	1-771-410-21	SWITCH, TACTILE (ALBUM/PLAY LIST ▼)			
S333	1-771-410-21	SWITCH, TACTILE (TUNING UP ►►►►)			

Ref. No.	Part No.	Description	Remark		
S334	1-771-410-21	SWITCH, TACTILE (TUNING DOWN ◀◀◀◀)			

A-4733-394-A		LCD VOL BOARD, COMPLETE			

< CAPACITOR >					
C102	1-128-111-11	ELECT	100uF	20%	25V
C103	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C104	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C105	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C107	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C108	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C109	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C110	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C111	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C361	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C362	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C363	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C364	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C365	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C366	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C367	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C368	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C369	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
< CONNECTOR >					
CN001	1-784-780-11	CONNECTOR, FFC 19P			
CN004	1-568-838-11	CONNECTOR, FFC 21P			
< IC >					
IC001	6-704-218-01	IC LC75874E			
< SHORT >					
JR101	1-216-296-00	SHORT CHIP	0		
JR102	1-216-296-00	SHORT CHIP	0		
JR103	1-216-296-00	SHORT CHIP	0		
JR104	1-216-296-00	SHORT CHIP	0		
JR105	1-216-296-00	SHORT CHIP	0		
JR106	1-216-296-00	SHORT CHIP	0		
JR107	1-216-296-00	SHORT CHIP	0		
JR108	1-216-296-00	SHORT CHIP	0		
JR109	1-216-296-00	SHORT CHIP	0		
JR110	1-216-296-00	SHORT CHIP	0		
JR111	1-216-296-00	SHORT CHIP	0		
JR201	1-216-864-11	SHORT CHIP	0		
JR202	1-216-864-11	SHORT CHIP	0		
JR203	1-216-864-11	SHORT CHIP	0		
< LIQUID CRYSTAL DISPLAY >					
LCD001	1-805-322-11	DISPLAY PANEL, LIQUID CRYSTAL			
< LED >					
LED204	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED205	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED206	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED207	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			
LED208	8-719-061-96	LED SLR-325DCT31 (ILLUMINATION)			

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MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C518	1-104-665-11	ELECT	100uF	20%	10V	C676	1-126-960-11	ELECT	1uF	20%	50V
C519	1-104-665-11	ELECT	100uF	20%	10V	C677	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C601	1-124-261-00	ELECT	10uF	20%	50V	C682	1-137-367-11	MYLAR	0.0033uF	5%	50V
C602	1-124-261-00	ELECT	10uF	20%	50V	C683	1-137-367-11	MYLAR	0.0033uF	5%	50V
C603	1-119-774-11	ELECT	100uF	20%	16V	C684	1-136-159-00	FILM	0.033uF	5%	50V
C604	1-126-163-11	ELECT	4.7uF	20%	50V	C685	1-136-159-00	FILM	0.033uF	5%	50V
C606	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C686	1-126-963-11	ELECT	4.7uF	20%	50V
C607	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C687	1-126-963-11	ELECT	4.7uF	20%	50V
C608	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (AEP, UK)	C691	1-126-963-11	ELECT	4.7uF	20%	50V
C610	1-126-963-11	ELECT	4.7uF	20%	50V	C692	1-126-963-11	ELECT	4.7uF	20%	50V
C611	1-126-163-11	ELECT	4.7uF	20%	50V	C693	1-124-465-00	ELECT	0.47uF	20%	50V
C613	1-126-163-11	ELECT	4.7uF	20%	50V	C694	1-216-864-11	SHORT CHIP	0		
C614	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C696	1-136-169-00	FILM	0.22uF	5%	50V
C615	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	C697	1-136-169-00	FILM	0.22uF	5%	50V
C617	1-124-261-00	ELECT	10uF	20%	50V	C700	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C618	1-124-261-00	ELECT	10uF	20%	50V	C702	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C619	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	C790	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C621	1-136-157-00	FILM	0.022uF	5%	50V	C791	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C622	1-136-157-00	FILM	0.022uF	5%	50V	C792	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C623	1-126-160-11	ELECT	1uF	20%	50V	C866	1-126-964-11	ELECT	10uF	20%	50V (AEP, UK)
C624	1-126-160-11	ELECT	1uF	20%	50V	C867	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP, UK)
C625	1-136-161-00	FILM	0.047uF	5%	50V	C872	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C626	1-136-161-00	FILM	0.047uF	5%	50V	C873	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C627	1-137-457-11	MYLAR	0.0027uF	5%	50V	C876	1-126-963-11	ELECT	4.7uF	20%	50V
C628	1-137-457-11	MYLAR	0.0027uF	5%	50V	C882	1-126-963-11	ELECT	4.7uF	20%	50V
C629	1-126-163-11	ELECT	4.7uF	20%	50V	C883	1-126-963-11	ELECT	4.7uF	20%	50V
C630	1-126-963-11	ELECT	4.7uF	20%	50V	C892	1-126-947-11	ELECT	47uF	20%	16V
C631	1-136-169-00	FILM	0.22uF	5%	50V	C894	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C632	1-136-169-00	FILM	0.22uF	5%	50V	C901	1-104-665-11	ELECT	100uF	20%	10V
C633	1-136-157-00	FILM	0.022uF	5%	50V	C905	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C634	1-136-157-00	FILM	0.022uF	5%	50V	C906	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C635	1-136-169-00	FILM	0.22uF	5%	50V	C908	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C636	1-136-169-00	FILM	0.22uF	5%	50V	C909	1-162-977-11	CERAMIC CHIP	0.0018uF	10%	50V
C637	1-126-964-11	ELECT	10uF	20%	50V	C910	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C640	1-126-947-11	ELECT	47uF	20%	16V	C911	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C641	1-126-947-11	ELECT	47uF	20%	16V	C912	1-164-670-11	CERAMIC CHIP	1200PF	5%	16V
C643	1-126-963-11	ELECT	4.7uF	20%	50V	C913	1-164-670-11	CERAMIC CHIP	1200PF	5%	16V
C645	1-124-234-00	ELECT	22uF	20%	16V	C914	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C653	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C915	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C654	1-164-388-11	CERAMIC CHIP	270PF	5%	50V	C916	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C655	1-164-388-11	CERAMIC CHIP	270PF	5%	50V	C917	1-164-670-11	CERAMIC CHIP	1200PF	5%	16V
C656	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C918	1-164-670-11	CERAMIC CHIP	1200PF	5%	16V
C657	1-119-774-11	ELECT	100uF	20%	16V (US)	C919	1-164-670-11	CERAMIC CHIP	1200PF	5%	16V
C657	1-126-933-11	ELECT	100uF	20%	16V (EXCEPT US)	C920	1-115-156-11	CERAMIC CHIP	1uF		10V
C661	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C921	1-115-156-11	CERAMIC CHIP	1uF		10V
C662	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C922	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C663	1-124-261-00	ELECT	10uF	20%	50V	C923	1-115-156-11	CERAMIC CHIP	1uF		10V
C664	1-124-261-00	ELECT	10uF	20%	50V	C924	1-104-906-11	DOUBLE LAYER	0.22F		50V
C665	1-164-816-11	CERAMIC CHIP	220PF	2%	50V	C925	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C666	1-164-816-11	CERAMIC CHIP	220PF	2%	50V	C926	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C668	1-124-589-11	ELECT	47uF	20%	16V (AEP, UK)	C927	1-126-964-11	ELECT	10uF	20%	50V
C669	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (AEP, UK)	C928	1-126-965-11	ELECT	22uF	20%	50V
C675	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V	C930	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
						C931	1-126-964-11	ELECT	10uF	20%	50V
						C932	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C933	1-128-551-11	ELECT	22uF	20%	25V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C934	1-126-933-11	ELECT	100uF 20% 16V	D910	8-719-423-10	DIODE MA8100-M-TX	
C935	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V	D911	8-719-988-61	DIODE 1SS355TE-17	
C936	1-126-933-11	ELECT	100uF 20% 16V			< IC >	
C938	1-126-960-11	ELECT	1uF 20% 50V	IC101	8-759-231-57	IC TA7810S	
C939	1-164-156-11	CERAMIC CHIP	0.1uF 25V	IC501	8-759-525-25	IC BU4052BCF-E2	
C940	1-126-767-11	ELECT	1000uF 20% 16V	IC601	6-703-650-11	IC M61529FP-D60G	
C943	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	IC603	6-704-074-01	IC NJM2156M (TE2)	
C944	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	IC604	6-600-234-01	IC GP1FA313TZ (DIGITAL OPTICAL OUT) (AEP. UK)	
C945	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V				
C946	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	IC701	6-704-046-01	IC BU2099FV	
C948	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	IC703	6-704-046-01	IC BU2099FV	
C949	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	IC901	6-803-325-01	IC uPD703260YGF-S04-JBT-A	
C950	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	IC902	6-704-798-01	IC BD4923G	
C951	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	IC904	8-759-533-04	IC M62703ML-E1	
C952	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	IC905	6-704-135-01	IC MM1614A	
C953	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V			< JACK >	
C954	1-164-173-11	CERAMIC CHIP	0.0039uF 10% 50V	JK602	1-779-902-21	JACK, PIN 4P (AUX IN/OUT)	
C955	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	JK603	1-774-227-11	JACK, PIN 1P (VIDEO OUT)	
C956	1-162-927-11	CERAMIC CHIP	100PF 5% 50V			< SHORT >	
C957	1-162-927-11	CERAMIC CHIP	100PF 5% 50V	JR001	1-216-296-00	SHORT CHIP	0
C958	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	JR002	1-216-296-00	SHORT CHIP	0
C959	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	JR501	1-216-864-11	SHORT CHIP	0
C960	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	JR502	1-216-296-00	SHORT CHIP	0
C961	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	JR503	1-216-864-11	SHORT CHIP	0
C962	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	JR601	1-216-296-00	SHORT CHIP	0
C963	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	JR607	1-216-864-11	SHORT CHIP	0
		< CONNECTOR >		JR610	1-216-864-11	SHORT CHIP	0
CN004	1-784-778-11	CONNECTOR, FFC 17P		JR611	1-216-864-11	SHORT CHIP	0
CN006	1-564-509-11	PLUG, CONNECTOR 6P		JR612	1-216-864-11	SHORT CHIP	0
CN007	1-564-507-11	PLUG, CONNECTOR 4P		JR613	1-216-864-11	SHORT CHIP	0
CN009	1-568-830-11	CONNECTOR, FFC 11P (EXCEPT US)		JR614	1-216-864-11	SHORT CHIP	0
CN502	1-784-733-11	CONNECTOR, FFC 11P		JR615	1-216-864-11	SHORT CHIP	0
CN504	1-784-766-11	CONNECTOR, FFC 5P (E51, MX)		JR616	1-216-864-11	SHORT CHIP	0
CN507	1-779-279-11	CONNECTOR, FFC (LIF (NON-ZIF)) 11P		JR617	1-216-864-11	SHORT CHIP	0
CN508	1-784-776-11	CONNECTOR, FFC 15P (AEP. UK)		JR620	1-216-864-11	SHORT CHIP	0
CN509	1-568-830-11	CONNECTOR, FFC 11P (EXCEPT AEP, UK)		JR621	1-216-864-11	SHORT CHIP	0
CN901	1-779-295-11	CONNECTOR, FFC (LIF (NON-ZIF)) 27P		JR624	1-216-864-11	SHORT CHIP	0 (US, AEP, UK)
CN902	1-779-291-11	CONNECTOR, FFC (LIF (NON-ZIF)) 23P		JR701	1-216-296-00	SHORT CHIP	0
CN903	1-691-040-31	CONNECTOR, FFC 8P (EXCEPT US)		JR702	1-216-864-11	SHORT CHIP	0
CN905	1-784-780-11	CONNECTOR, FFC 19P		JR703	1-216-864-11	SHORT CHIP	0
CN999	1-568-826-11	CONNECTOR, FFC 7P		JR704	1-216-864-11	SHORT CHIP	0
		< DIODE >		JR705	1-216-864-11	SHORT CHIP	0
D015	8-719-421-18	DIODE MA8033-L-TX		JR706	1-216-864-11	SHORT CHIP	0
D016	8-719-988-61	DIODE 1SS355TE-17		JR707	1-216-864-11	SHORT CHIP	0
D017	8-719-988-61	DIODE 1SS355TE-17		JR708	1-216-864-11	SHORT CHIP	0
D018	8-719-988-61	DIODE 1SS355TE-17		JR709	1-216-864-11	SHORT CHIP	0
D050	8-719-988-61	DIODE 1SS355TE-17		JR801	1-216-296-00	SHORT CHIP	0
D501	8-719-083-58	DIODE UDZSTE-173.9B		JR802	1-216-864-11	SHORT CHIP	0
D611	8-719-988-61	DIODE 1SS355TE-17		JR901	1-216-864-11	SHORT CHIP	0
D612	8-719-988-61	DIODE 1SS355TE-17		JR902	1-216-864-11	SHORT CHIP	0
D613	8-719-988-61	DIODE 1SS355TE-17		JR903	1-216-864-11	SHORT CHIP	0
D902	8-719-988-61	DIODE 1SS355TE-17		JR904	1-216-296-00	SHORT CHIP	0
D904	8-719-988-61	DIODE 1SS355TE-17		JR905	1-216-296-00	SHORT CHIP	0
D905	8-719-988-61	DIODE 1SS355TE-17		JR906	1-216-296-00	SHORT CHIP	0
D906	8-719-988-61	DIODE 1SS355TE-17					
D907	8-719-988-61	DIODE 1SS355TE-17 (EXCEPT US)					

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
JR907	1-216-864-11	SHORT CHIP	0			R515	1-216-837-11	METAL CHIP	22K	5%	1/10W
JR908	1-216-864-11	SHORT CHIP	0 (AEP, UK)			R516	1-216-837-11	METAL CHIP	22K	5%	1/10W
		< SHORT >				R517	1-216-174-11	METAL CHIP	100	5%	1/8W
L901	1-216-365-11	SHORT CHIP	0			R518	1-216-174-11	METAL CHIP	100	5%	1/8W
		< TRANSISTOR >				R520	1-216-853-11	METAL CHIP	470K	5%	1/10W
Q25	8-729-027-46	TRANSISTOR	DTC114YKA-T146			R521	1-216-864-11	SHORT CHIP	0		
Q018	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R522	1-216-864-11	SHORT CHIP	0		
Q019	8-729-024-93	TRANSISTOR	2SB1370-E			R523	1-216-864-11	SHORT CHIP	0		
Q024	8-729-801-84	TRANSISTOR	2SB1013-TP-34			R524	1-216-864-11	SHORT CHIP	0		
Q050	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R525	1-216-809-11	METAL CHIP	100	5%	1/10W
Q051	8-729-201-53	TRANSISTOR	2SA1015TP-GR			R526	1-216-809-11	METAL CHIP	100	5%	1/10W
Q602	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R527	1-216-809-11	METAL CHIP	100	5%	1/10W
Q604	8-729-052-79	TRANSISTOR	2SD1306NE			R528	1-216-809-11	METAL CHIP	100	5%	1/10W
Q605	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R529	1-216-809-11	METAL CHIP	100	5%	1/10W
Q607	8-729-052-79	TRANSISTOR	2SD1306NE			R530	1-216-809-11	METAL CHIP	100	5%	1/10W
Q608	6-550-580-01	TRANSISTOR	2SA1235TP-1F			R531	1-216-809-11	METAL CHIP	100	5%	1/10W
Q614	8-729-045-62	FET	2SK2158-T2B			R601	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q615	8-729-045-62	FET	2SK2158-T2B			R602	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q616	8-729-045-62	FET	2SK2158-T2B			R603	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q617	8-729-045-62	FET	2SK2158-T2B			R604	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q618	8-729-045-62	FET	2SK2158-T2B			R605	1-216-838-11	METAL CHIP	27K	5%	1/10W
Q619	8-729-045-62	FET	2SK2158-T2B			R606	1-216-838-11	METAL CHIP	27K	5%	1/10W
Q620	8-729-045-62	FET	2SK2158-T2B			R607	1-216-864-11	SHORT CHIP	0		
Q623	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R609	1-216-864-11	SHORT CHIP	0		
Q624	8-729-045-62	FET	2SK2158-T2B			R610	1-216-864-11	SHORT CHIP	0		
Q625	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R613	1-216-864-11	SHORT CHIP	0 (EXCEPT US)		
Q890	8-729-037-03	TRANSISTOR	KTA1266GR-AT			R614	1-216-864-11	SHORT CHIP	0 (EXCEPT US)		
Q891	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R615	1-216-864-11	SHORT CHIP	0		
Q892	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R616	1-216-864-11	SHORT CHIP	0		
Q901	8-729-027-23	TRANSISTOR	DTA114EKA-T146			R617	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q902	8-729-120-28	TRANSISTOR	2SC3052F-T1-LF			R618	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q904	8-729-116-57	TRANSISTOR	2SB1068TP-K (EXCEPT US)			R619	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q905	8-729-140-04	TRANSISTOR	2SB1116A-TP-LK			R620	1-216-821-11	METAL CHIP	1K	5%	1/10W
			(EXCEPT US)			R621	1-216-835-11	METAL CHIP	15K	5%	1/10W
Q906	1-801-806-11	TRANSISTOR	DTC144EKA-T146			R622	1-216-835-11	METAL CHIP	15K	5%	1/10W
		< RESISTOR >				R623	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R003	1-216-296-00	SHORT CHIP	0			R624	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R011	1-216-134-00	METAL CHIP	2.2	5%	1/8W	R625	1-216-833-11	METAL CHIP	10K	5%	1/10W
R016	1-249-413-11	CARBON	470	5%	1/4W	R626	1-216-833-11	METAL CHIP	10K	5%	1/10W
R017	1-216-841-11	METAL CHIP	47K	5%	1/10W	R627	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R018	1-216-809-11	METAL CHIP	100	5%	1/10W	R628	1-216-837-11	METAL CHIP	22K	5%	1/10W
R019	1-216-817-11	METAL CHIP	470	5%	1/10W	R629	1-216-150-00	RES-CHIP	10	5%	1/8W
R020	1-216-864-11	SHORT CHIP	0			R630	1-216-833-11	METAL CHIP	10K	5%	1/10W
R031	1-216-817-11	METAL CHIP	470	5%	1/10W	R635	1-216-842-11	METAL CHIP	56K	5%	1/10W
R032	1-216-841-11	METAL CHIP	47K	5%	1/10W	R636	1-216-838-11	METAL CHIP	27K	5%	1/10W
R038	1-249-409-11	CARBON	220	5%	1/4W	R639	1-216-821-11	METAL CHIP	1K	5%	1/10W
R050	1-216-845-11	METAL CHIP	100K	5%	1/10W	R640	1-216-861-11	METAL CHIP	2.2M	5%	1/10W
R052	1-216-832-11	METAL CHIP	8.2K	5%	1/10W	R641	1-216-861-11	METAL CHIP	2.2M	5%	1/10W
R053	1-216-836-11	METAL CHIP	18K	5%	1/10W	R642	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R509	1-216-833-11	METAL CHIP	10K	5%	1/10W	R643	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R510	1-216-833-11	METAL CHIP	10K	5%	1/10W	R644	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R511	1-216-837-11	METAL CHIP	22K	5%	1/10W	R645	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R512	1-216-837-11	METAL CHIP	22K	5%	1/10W	R647	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R513	1-216-837-11	METAL CHIP	22K	5%	1/10W	R648	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R514	1-216-837-11	METAL CHIP	22K	5%	1/10W	R649	1-216-864-11	SHORT CHIP	0		
						R650	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R651	1-216-845-11	METAL CHIP	100K	5%	1/10W		R718	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R652	1-216-845-11	METAL CHIP	100K	5%	1/10W		R719	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R655	1-216-824-11	METAL CHIP	4.7K	5%	1/10W								
R656	1-216-830-11	METAL CHIP	5.6K	5%	1/10W		R721	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R657	1-216-821-11	METAL CHIP	1K	5%	1/10W		R722	1-216-833-11	METAL CHIP	10K	5%	1/10W	
							R723	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R658	1-216-820-11	METAL CHIP	820	5%	1/10W		R724	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R659	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		R725	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R660	1-216-825-11	METAL CHIP	3.3K	5%	1/10W								
R662	1-216-864-11	SHORT CHIP	0				R726	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R663	1-216-833-11	METAL CHIP	10K	5%	1/10W		R727	1-216-833-11	METAL CHIP	10K	5%	1/10W	
							R728	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R664	1-216-836-11	METAL CHIP	18K	5%	1/10W		R729	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R665	1-216-857-11	METAL CHIP	1M	5%	1/10W		R730	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R666	1-216-814-11	METAL CHIP	270	5%	1/10W								
R667	1-216-833-11	METAL CHIP	10K	5%	1/10W		R731	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R668	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R732	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
							R733	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R669	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R734	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R670	1-216-809-11	METAL CHIP	100	5%	1/10W		R737	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R671	1-216-809-11	METAL CHIP	100	5%	1/10W								
R672	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R738	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R674	1-216-845-11	METAL CHIP	100K	5%	1/10W		R739	1-216-821-11	METAL CHIP	1K	5%	1/10W	
							R740	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R675	1-216-825-11	METAL CHIP	2.2K	5%	1/10		R741	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R676	1-216-825-11	METAL CHIP	2.2K	5%	1/10		R744	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R677	1-216-837-11	METAL CHIP	22K	5%	1/10W								
R678	1-216-849-11	METAL CHIP	220K	5%	1/10W		R745	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R679	1-216-845-11	METAL CHIP	100K	5%	1/10W		R746	1-216-821-11	METAL CHIP	1K	5%	1/10W	
							R747	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R680	1-216-849-11	METAL CHIP	220K	5%	1/10W		R748	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R681	1-216-849-11	METAL CHIP	220K	5%	1/10W		R749	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R682	1-216-841-11	METAL CHIP	47K	5%	1/10W								
R683	1-216-844-11	METAL CHIP	82K	5%	1/10W		R750	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R684	1-216-833-11	METAL CHIP	10K	5%	1/10W		R751	1-216-821-11	METAL CHIP	1K	5%	1/10W	
							R752	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R685	1-216-841-11	METAL CHIP	47K	5%	1/10W		R753	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R686	1-216-832-11	METAL CHIP	8.2K	5%	1/10W		R754	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R687	1-216-823-11	METAL CHIP	1.5K	5%	1/10W								
R688	1-216-823-11	METAL CHIP	1.5K	5%	1/10W		R755	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R689	1-216-214-00	RES-CHIP	4.7K	5%	1/8W		R756	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
							R759	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R692	1-216-809-11	METAL CHIP	100	5%	1/10W		R760	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	
R693	1-216-809-11	METAL CHIP	100	5%	1/10W		R761	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R694	1-216-826-11	METAL CHIP	2.7K	5%	1/10W								
R695	1-216-826-11	METAL CHIP	2.7K	5%	1/10W		R762	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	
R696	1-216-845-11	METAL CHIP	100K	5%	1/10W		R763	1-216-841-11	METAL CHIP	47K	5%	1/10W	
													(EXCEPT US)
R697	1-216-845-11	METAL CHIP	100K	5%	1/10W		R764	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	
R698	1-216-830-11	METAL CHIP	5.6K	5%	1/10W		R765	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	
R699	1-216-830-11	METAL CHIP	5.6K	5%	1/10W		R766	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	
R701	1-216-849-11	METAL CHIP	220K	5%	1/10W								
R702	1-216-841-11	METAL CHIP	47K	5%	1/10W		R767	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	
							R768	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R703	1-216-821-11	METAL CHIP	1K	5%	1/10W		R769	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	
R704	1-216-821-11	METAL CHIP	1K	5%	1/10W		R770	1-216-864-11	SHORT CHIP	0			
R707	1-216-833-11	METAL CHIP	10K	5%	1/10W		R771	1-216-864-11	SHORT CHIP	0			
R708	1-216-833-11	METAL CHIP	10K	5%	1/10W								
R709	1-216-833-11	METAL CHIP	10K	5%	1/10W		R772	1-216-864-11	SHORT CHIP	0			
							R773	1-216-864-11	SHORT CHIP	0			
R710	1-216-833-11	METAL CHIP	10K	5%	1/10W		R774	1-216-864-11	SHORT CHIP	0			
R711	1-216-833-11	METAL CHIP	10K	5%	1/10W		R778	1-216-864-11	SHORT CHIP	0			
R712	1-216-821-11	METAL CHIP	1K	5%	1/10W		R779	1-216-864-11	SHORT CHIP	0			
R713	1-216-821-11	METAL CHIP	1K	5%	1/10W								
R714	1-216-833-11	METAL CHIP	10K	5%	1/10W		R780	1-216-864-11	SHORT CHIP	0			
							R781	1-216-864-11	SHORT CHIP	0			
R715	1-216-833-11	METAL CHIP	10K	5%	1/10W		R782	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R716	1-216-833-11	METAL CHIP	10K	5%	1/10W		R783	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R717	1-216-833-11	METAL CHIP	10K	5%	1/10W		R784	1-216-841-11	METAL CHIP	47K	5%	1/10W	

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R785	1-216-841-11	METAL CHIP	47K	5%	1/10W	R937	1-216-809-11	METAL CHIP	100	5%	1/10W
R786	1-216-841-11	METAL CHIP	47K	5%	1/10W	R938	1-216-809-11	METAL CHIP	100	5%	1/10W
R787	1-216-841-11	METAL CHIP	47K	5%	1/10W	R939	1-216-809-11	METAL CHIP	100	5%	1/10W
R788	1-216-841-11	METAL CHIP	47K	5%	1/10W	R940	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R789	1-216-841-11	METAL CHIP	47K	5%	1/10W	R941	1-216-847-11	METAL CHIP	150K	5%	1/10W
R863	1-216-807-11	METAL CHIP	68	5%	1/10W (AEP, UK)	R942	1-216-843-11	METAL CHIP	68K	5%	1/10W
R879	1-216-821-11	METAL CHIP	1K	5%	1/10W	R943	1-216-864-11	SHORT CHIP	0 (EXCEPT US)		
R880	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R944	1-216-833-11	METAL CHIP	10K	5%	1/10W (EXCEPT US)
R881	1-216-841-11	METAL CHIP	47K	5%	1/10W	R945	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E51, MX)
R884	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	R945	1-216-833-11	METAL CHIP	10K	5%	1/10W (US)
R885	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	R945	1-216-847-11	METAL CHIP	150K	5%	1/10W (AEP, UK)
R887	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R946	1-216-864-11	SHORT CHIP	0		
R888	1-216-809-11	METAL CHIP	100	5%	1/10W	R947	1-216-821-11	METAL CHIP	1K	5%	1/10W
R890	1-216-841-11	METAL CHIP	47K	5%	1/10W	R950	1-216-864-11	SHORT CHIP	0		
R891	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R951	1-216-833-11	METAL CHIP	10K	5%	1/10W
R892	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R952	1-216-845-11	METAL CHIP	100K	5%	1/10W
R893	1-216-833-11	METAL CHIP	10K	5%	1/10W	R953	1-216-845-11	METAL CHIP	100K	5%	1/10W
R894	1-216-864-11	SHORT CHIP	0			R954	1-216-833-11	METAL CHIP	10K	5%	1/10W
R895	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R955	1-216-049-11	RES-CHIP	1K	5%	1/10W
R896	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	R957	1-216-864-11	SHORT CHIP	0		
R901	1-216-841-11	METAL CHIP	47K	5%	1/10W	R958	1-216-840-11	METAL CHIP	39K	5%	1/10W
R902	1-216-841-11	METAL CHIP	47K	5%	1/10W	R959	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R903	1-216-841-11	METAL CHIP	47K	5%	1/10W	R960	1-216-849-11	METAL CHIP	220K	5%	1/10W
R904	1-216-841-11	METAL CHIP	47K	5%	1/10W	R961	1-216-065-00	RES-CHIP	4.7K	5%	1/10W
R905	1-216-841-11	METAL CHIP	47K	5%	1/10W	R962	1-216-833-11	METAL CHIP	10K	5%	1/10W
R906	1-216-841-11	METAL CHIP	47K	5%	1/10W	R967	1-216-025-11	RES-CHIP	100	5%	1/10W
R907	1-216-841-11	METAL CHIP	47K	5%	1/10W	R968	1-216-821-11	METAL CHIP	1K	5%	1/10W
R908	1-216-841-11	METAL CHIP	47K	5%	1/10W	R969	1-216-838-11	METAL CHIP	27K	5%	1/10W
R909	1-216-841-11	METAL CHIP	47K	5%	1/10W	R970	1-216-864-11	SHORT CHIP	0		
R910	1-216-809-11	METAL CHIP	100	5%	1/10W	R980	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R911	1-216-809-11	METAL CHIP	100	5%	1/10W	R981	1-216-817-11	METAL CHIP	470	5%	1/10W
R912	1-216-809-11	METAL CHIP	100	5%	1/10W	R982	1-216-845-11	METAL CHIP	100K	5%	1/10W
R913	1-216-809-11	METAL CHIP	100	5%	1/10W	R983	1-216-845-11	METAL CHIP	100K	5%	1/10W
R914	1-216-809-11	METAL CHIP	100	5%	1/10W	R984	1-216-809-11	METAL CHIP	100	5%	1/10W
R915	1-216-809-11	METAL CHIP	100	5%	1/10W	R985	1-216-821-11	METAL CHIP	1K	5%	1/10W (EXCEPT US)
R916	1-216-841-11	METAL CHIP	47K	5%	1/10W	R986	1-216-821-11	METAL CHIP	1K	5%	1/10W (EXCEPT US)
R917	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R987	1-216-821-11	METAL CHIP	1K	5%	1/10W (EXCEPT US)
R918	1-216-841-11	METAL CHIP	47K	5%	1/10W	R988	1-216-821-11	METAL CHIP	1K	5%	1/10W (EXCEPT US)
R919	1-216-841-11	METAL CHIP	47K	5%	1/10W	R989	1-216-841-11	METAL CHIP	47K	5%	1/10W (EXCEPT US)
R920	1-216-833-11	METAL CHIP	10K	5%	1/10W	R990	1-216-841-11	METAL CHIP	47K	5%	1/10W (EXCEPT US)
R921	1-216-841-11	METAL CHIP	47K	5%	1/10W	R991	1-216-841-11	METAL CHIP	47K	5%	1/10W (EXCEPT US)
R922	1-216-841-11	METAL CHIP	47K	5%	1/10W	R992	1-216-841-11	METAL CHIP	47K	5%	1/10W (EXCEPT US)
R923	1-216-809-11	METAL CHIP	100	5%	1/10W	R995	1-216-833-11	METAL CHIP	10K	5%	1/10W (US, E51, MX)
R924	1-216-809-11	METAL CHIP	100	5%	1/10W	R995	1-216-857-11	METAL CHIP	1M	5%	1/10W (AEP, UK)
R925	1-216-809-11	METAL CHIP	100	5%	1/10W	R996	1-216-833-11	METAL CHIP	10K	5%	1/10W (US, E51, MX)
R926	1-216-809-11	METAL CHIP	100	5%	1/10W						
R927	1-216-809-11	METAL CHIP	100	5%	1/10W						
R928	1-216-809-11	METAL CHIP	100	5%	1/10W						
R929	1-216-809-11	METAL CHIP	100	5%	1/10W						
R930	1-216-809-11	METAL CHIP	100	5%	1/10W						
R931	1-216-809-11	METAL CHIP	100	5%	1/10W						
R932	1-216-809-11	METAL CHIP	100	5%	1/10W						
R933	1-216-809-11	METAL CHIP	100	5%	1/10W						
R934	1-216-809-11	METAL CHIP	100	5%	1/10W						
R935	1-216-809-11	METAL CHIP	100	5%	1/10W						
R936	1-216-809-11	METAL CHIP	100	5%	1/10W						

MAIN

MIC

MODE MOTOR

PT

RIGHT BUTTON (1)

Ref. No.	Part No.	Description	Remark		
R996	1-216-864-11	SHORT CHIP	0 (AEP, UK)		
R997	1-216-833-11	METAL CHIP	10K	5%	1/10W (US, E51, MX)
R997	1-216-864-11	SHORT CHIP	0 (AEP, UK)		
R998	1-220-397-11	METAL CHIP	4.7M	5%	1/10W
R999	1-216-851-11	METAL CHIP	330K	5%	1/10W
< VIBRATOR >					
X901	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)			
X902	1-795-058-21	VIBRATOR, CERAMIC (5MHz)			

A-4733-419-A		MIC BOARD, COMPLETE (E51, MX)			

< CAPACITOR >					
C203	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C204	1-126-957-11	ELECT	0.22uF	20%	50V
C205	1-126-964-11	ELECT	10uF	20%	50V
C206	1-126-934-11	ELECT	220uF	20%	10V
C207	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C208	1-126-960-11	ELECT	1uF	20%	50V
C209	1-126-964-11	ELECT	10uF	20%	50V
C210	1-126-965-11	ELECT	22uF	20%	50V
C211	1-164-473-11	CERAMIC CHIP	820PF	5%	50V
C212	1-126-959-11	ELECT	0.47uF	20%	50V
C213	1-126-961-11	ELECT	2.2uF	20%	50V
C216	1-126-959-11	ELECT	0.47uF	20%	50V
C219	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
< CONNECTOR >					
CN205	1-784-766-11	CONNECTOR, FFC 5P			
< DIODE >					
D201	8-719-988-61	DIODE 1SS355TE-17			
D202	8-719-988-61	DIODE 1SS355TE-17			
< FERRITE BEAD >					
* FB201	1-543-959-22	FERRITE	0uH		
< IC >					
IC201	8-759-710-97	IC NJM4565M (TE2)			
< JACK >					
J201	1-816-860-11	JACK, 6.3 BLK MONO W/SW V MSC (MIC)			
< SHORT >					
JR204	1-216-864-11	SHORT CHIP	0		
< TRANSISTOR >					
Q201	8-729-045-62	FET	2SK2158-T2B		
< RESISTOR >					
R201	1-216-833-11	METAL CHIP	10K	5%	1/10W
R202	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R203	1-216-849-11	METAL CHIP	220K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R204	1-216-809-11	METAL CHIP	100	5%	1/10W
R205	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R206	1-216-850-11	METAL CHIP	270K	5%	1/10W
R207	1-216-821-11	METAL CHIP	1K	5%	1/10W
R208	1-216-174-00	RES-CHIP	100	5%	1/8W
R209	1-216-817-11	METAL CHIP	470	5%	1/10W
R210	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R211	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R212	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R213	1-216-839-11	METAL CHIP	33K	5%	1/10W
R214	1-216-797-11	METAL CHIP	10	5%	1/10W
R215	1-216-817-11	METAL CHIP	470	5%	1/10W
R216	1-216-821-11	METAL CHIP	1K	5%	1/10W
R232	1-216-833-11	METAL CHIP	10K	5%	1/10W
< VARIABLE RESISTOR >					
VR201	1-227-502-11	RES, VAR, CARBON 10K (MIC MIXING)			

	1-686-724-12	MODE MOTOR BOARD			

	1-688-417-11	PT BOARD (US, AEP, UK)			
	1-688-421-11	PT BOARD (E51, MX)			

< CAPACITOR >					
C009	1-164-005-11	CERAMIC CHIP	0.47uF	25V	(E51, MX)
C025	1-164-005-11	CERAMIC CHIP	0.47uF	25V	(US, AEP, UK)
< CONNECTOR >					
* CN001	1-564-915-11	PIN, CONNECTOR (3.96mm PITCH) 7P (US)			
* CN007	1-564-687-11	PIN, CONNECTOR (3.96mm PITCH) 3P (E51)			
* CN008	1-564-687-11	PIN, CONNECTOR (3.96mm PITCH) 3P (E51)			
* CN010	1-564-321-21	PIN, CONNECTOR (3.96mm PITCH) 2P			
		(EXCEPT E51)			
* CN011	1-564-242-00	PIN, CONNECTOR (3.96mm PITCH) 5P			
		(AEP, UK)			
* CN015	1-564-915-11	PIN, CONNECTOR (3.96mm PITCH) 7P			
		(E51, MX)			

	1-688-408-11	RIGHT BUTTON (1) BOARD			

< RESISTOR >					
R341	1-216-816-11	METAL CHIP	390	5%	1/10W
R342	1-216-819-11	METAL CHIP	680	5%	1/10W
R343	1-216-821-11	METAL CHIP	1K	5%	1/10W
R344	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
< SWITCH >					
S341	1-771-410-21	SWITCH, TACTILE (TITLE)			
S342	1-771-410-21	SWITCH, TACTILE (DISPLAY)			
S343	1-771-410-21	SWITCH, TACTILE (MODE)			

CX-BK1

				RIGHT BUTTON (2)	ROLLER MOTOR	SENSOR
SPEAKER	STOCKER	SW (1)	SW (2)	SW (3)	SW (4)	USB AUX

Ref. No.	Part No.	Description	Remark
	1-688-409-11	RIGHT BUTTON (2) BOARD *****	
		< SWITCH >	
S344	1-771-410-21	SWITCH, TACTILE (ENTER)	

	1-686-726-12	ROLLER MOTOR BOARD *****	

	1-686-723-12	SENSOR BOARD *****	
		< IC >	
IC751	8-749-017-45	SENSOR, PHONT RPR-220C1N (DISC INSERT DETECT SENSOR)	

	1-688-419-11	SPEAKER BOARD *****	
		< CAPACITOR >	
C524	1-165-621-11	CERAMIC CHIP 0.1uF	50V
C525	1-165-621-11	CERAMIC CHIP 0.1uF	50V
C526	1-165-621-11	CERAMIC CHIP 0.1uF	50V
C527	1-165-621-11	CERAMIC CHIP 0.1uF	50V
C532	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C533	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C534	1-165-621-11	CERAMIC CHIP 0.1uF	50V
C535	1-165-621-11	CERAMIC CHIP 0.1uF	50V
		< CONNECTOR >	
* CN503	1-564-241-11	PIN, CONNECTOR (3.96mm PITCH) 4P	
		< JACK >	
JK502	1-694-635-12	TERMINAL BOARD (4P) (≡) SPEAKER)	
		< COIL >	
L501	1-420-872-52	COIL, AIR-CORE	
L502	1-420-872-52	COIL, AIR-CORE	
		< RESISTOR >	
R570	1-249-625-31	CARBON 10 5%	1/2W
R571	1-249-625-31	CARBON 10 5%	1/2W
R572	1-249-393-11	CARBON 10 5%	1/4W
R573	1-249-393-11	CARBON 10 5%	1/4W

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

Ref. No.	Part No.	Description	Remark
	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 *****	
		< SWITCH >	
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 *****	
		< SWITCH >	
S715	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC OUT)	

	1-686-730-12	SW (4) BOARD *****	
		< SWITCH >	
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)	

	A-4733-399-A	USB AUX BOARD, COMPLETE *****	
		< CAPACITOR >	
C700	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C701	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C702	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C703	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C704	1-162-960-11	CERAMIC CHIP 220PF	10% 50V
C705	1-162-960-11	CERAMIC CHIP 220PF	10% 50V
C706	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C708	1-117-863-11	CERAMIC CHIP 0.47uF	10% 6.3V
C709	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C710	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C711	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C712	1-125-891-11	CERAMIC CHIP 0.47uF	10% 10V
C713	1-126-964-11	ELECT 10uF	20% 50V
C714	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
C715	1-104-665-11	ELECT 100uF	20% 10V
C716	1-126-964-11	ELECT 10uF	20% 50V
C717	1-104-663-11	ELECT 33uF	20% 25V
C718	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C719	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C720	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C721	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C722	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C724	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C725	1-162-927-11	CERAMIC CHIP 100PF	5% 50V

USB AUX

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C755	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R716	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
C756	1-126-963-11	ELECT	4.7uF	20%	50V	R718	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
C757	1-164-222-11	CERAMIC CHIP	0.22uF		25V	R720	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
C758	1-104-665-11	ELECT	100uF	20%	10V	R721	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
C759	1-126-947-11	ELECT	47uF	20%	10V	R722	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
C760	1-164-005-11	CERAMIC CHIP	0.47uF		25V	R723	1-216-821-11	METAL CHIP	1K	5%	1/10W
C762	1-164-222-11	CERAMIC CHIP	0.22uF		25V	R724	1-216-809-11	METAL CHIP	100	5%	1/10W
< CONNECTOR >						R725	1-216-809-11	METAL CHIP	100	5%	1/10W
CN701	1-784-778-11	CONNECTOR, FFC 17P				R726	1-216-809-11	METAL CHIP	100	5%	1/10W
< GROUND TERMINAL >						R727	1-216-809-11	METAL CHIP	100	5%	1/10W
* EP701	1-537-738-21	TERMINAL, EARTH				R728	1-216-809-11	METAL CHIP	100	5%	1/10W
* EP702	1-537-738-21	TERMINAL, EARTH				R729	1-216-819-11	METAL CHIP	680	5%	1/10W
< IC >						R730	1-216-819-11	METAL CHIP	680	5%	1/10W
IC700	6-704-219-01	IC UAC3553B				R731	1-216-803-11	METAL CHIP	33	5%	1/10W
IC701	8-759-701-56	IC NJM78M05FA				R732	1-216-845-11	METAL CHIP	100K	5%	1/10W
< JACK >						R735	1-216-837-11	METAL CHIP	22K	5%	1/10W
* J700	1-784-010-11	CONNECTOR, USB (B) (USB)				R736	1-216-837-11	METAL CHIP	22K	5%	1/10W
J701	1-779-583-11	JACK, PIN 3P (LINE IN)				< VIBRATOR >					
< SHORT >						X700	1-578-774-81	VIBRATOR, CRYSTAL (12MHz)			
JR701	1-216-864-11	SHORT CHIP	0			*****					
JR702	1-216-864-11	SHORT CHIP	0			MISCELLANEOUS					
JR703	1-216-864-11	SHORT CHIP	0			*****					
< FERRITE >						51	1-796-351-61	MECHANISM, SIGNAL CASSETTE			
JN702	1-410-396-41	FERRITE	0.45uH					(CMAL1Z241A) (EXCEPT US)			
JN704	1-410-396-41	FERRITE	0.45uH			59	1-765-326-11	WIRE (FLAT TYPE) (11 CORE) (EXCEPT US)			
< COIL >						60	1-827-677-11	WIRE (FLAT TYPE) (8 CORE) (EXCEPT US)			
L700	1-216-864-11	SHORT CHIP	0			102	1-769-869-11	WIRE (FLAT TYPE) (5 CORE) (E51, MX)			
L701	1-216-864-11	SHORT CHIP	0			153	1-773-115-11	WIRE (FLAT TYPE) (19 CORE)			
L702	1-216-864-11	SHORT CHIP	0			154	1-773-156-11	WIRE (FLAT TYPE) (21 CORE)			
L703	1-216-864-11	SHORT CHIP	0			254	1-765-334-11	WIRE (FLAT TYPE) (17 CORE)			
L705	1-216-864-11	SHORT CHIP	0			255	1-769-943-11	WIRE (FLAT TYPE) (11 CORE) (US, E51, MX)			
< TRANSISTOR >						255	1-773-007-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)			
Q700	8-729-900-53	TRANSISTOR	DTC114EKA-T146			257	1-693-625-11	TUNER (FM/AM) (US)			
Q701	8-729-106-60	TRANSISTOR	2SB1132-T101-R			257	1-693-626-11	TUNER (FM/AM) (AEP, UK)			
Q702	8-729-027-23	TRANSISTOR	DTA114EKA-T146			257	1-693-628-11	TUNER (FM/AM) (E51, MX)			
< RESISTOR >						258	1-769-944-11	WIRE (FLAT TYPE) (11 CORE)			
R700	1-216-801-11	METAL CHIP	22	5%	1/10W	259	1-827-488-11	WIRE (FLAT TYPE) (27 CORE)			
R701	1-216-801-11	METAL CHIP	22	5%	1/10W	260	1-827-489-11	WIRE (FLAT TYPE) (11 CORE)			
R702	1-216-835-11	METAL CHIP	15K	5%	1/10W	261	1-775-217-11	WIRE (FLAT TYPE) (23 CORE)			
R703	1-216-835-11	METAL CHIP	15K	5%	1/10W	△303	1-777-071-83	CORD, POWER (AEP, UK, E51)			
R704	1-216-832-11	METAL CHIP	8.2K	5%	1/10W	△303	1-783-532-11	CORD, POWER (US)			
R705	1-216-832-11	METAL CHIP	8.2K	5%	1/10W	△303	1-827-226-11	CORD, POWER (MX)			
R706	1-216-835-11	METAL CHIP	15K	5%	1/10W	△807	A-4735-189-A	BU-30 (61) ASSY			
R707	1-216-835-11	METAL CHIP	15K	5%	1/10W	808	1-782-817-11	WIRE (FLAT TYPE) (16 CORE)			
R710	1-216-849-11	METAL CHIP	220K	5%	1/10W	△F001	1-533-453-12	FUSE, GLASS TUBE (DIA. 5) (5A/125V) (US)			
R711	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	△F001	1-533-472-11	FUSE, GLASS TUBE (DIA. 5) (5A/250V)			
R712	1-216-829-11	METAL CHIP	4.7K	5%	1/10W			(E51, MX)			
						M301	1-763-072-11	FAN, DC			
						M761	A-4735-953-A	MOTOR ASSY (STOCKER)			
						M771	A-4735-953-A	MOTOR ASSY (MODE)			
						M781	A-4735-953-A	MOTOR ASSY (ROLLER)			
						△PT001	1-439-796-11	TRANSFORMER, POWER (MX)			
						△PT002	1-439-795-11	TRANSFORMER, POWER (E51)			
						△PT003	1-439-794-11	TRANSFORMER, POWER (US)			
						△PT003	1-439-797-11	TRANSFORMER, POWER (AEP, UK)			
						Q531	6-550-291-01	TRANSISTOR FN1016 (AEP, UK)			

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

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
Q531	6-550-320-01	TRANSISTOR 2SD2562 (E51, MX)	
Q531	8-729-020-52	TRANSISTOR 2SD2439-OPY (US)	
Q532	6-550-291-01	TRANSISTOR FN1016 (AEP, UK)	
Q532	6-550-320-01	TRANSISTOR 2SD2562 (E51, MX)	
Q532	8-729-020-52	TRANSISTOR 2SD2439-OPY (US)	
Q533	6-550-292-01	TRANSISTOR FP1016 (AEP, UK)	
Q533	6-550-319-01	TRANSISTOR 2SB1649 (E51, MX)	
Q533	8-729-020-48	TRANSISTOR 2SB1588-OPY (US)	
Q534	6-550-292-01	TRANSISTOR FP1016 (AEP, UK)	
Q534	6-550-319-01	TRANSISTOR 2SB1649 (E51, MX)	
Q534	8-729-020-48	TRANSISTOR 2SB1588-OPY (US)	
S702	1-477-299-11	ENCODER, ROTARY (STOCKER POSITION)	
S771	1-477-300-11	ENCODER, ROTARY (MODE)	

ACCESSORIES

<u>△</u>	1-569-008-12	ADAPTOR, CONVERSION 2P (E51)
<u>△</u>	1-770-019-51	ADAPTOR, CONVERSION PLUG (UK)