

CFD-RS60CP

SERVICE MANUAL

E Model

Ver. 1.0 2007.07



CD Section	Model Name Using Similar Mechanism	CFD-S35CP
	CD Mechanism Type	KSM-213CDP
	Optical Pick-up Name	KSS-213C
TC Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	MF-S350V

SPECIFICATIONS

CD player section

System

Compact disc digital audio system

Laser diode properties

Emission duration: Continuous

Laser output: Less than 44.6 μ W

(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

Spindle speed

200 r/min (rpm) to 500 r/min (rpm) (CLV)

Number of channels

2

Frequency response

20 - 20 000 Hz +1.8/-0.2 dB

Wow and flutter

Below measurable limit

Radio section

Frequency range

MX model

FM: 87.5 - 108 MHz

AM: 530 - 1 710 kHz

E41, SP model

FM: 87.5 - 108 MHz

AM: 531 - 1 611 kHz (9 kHz step)

530 - 1 610 kHz (10 kHz step)

Antennas

FM: Telescopic antenna

AM: Built-in ferrite bar antenna

Cassette-corder section

Recording system

4-track 2 channel stereo

Fast winding time

Approx. 120 s (sec.) with Sony cassette C-60

Frequency response

TYPE I (normal): 80 - 10 000 Hz

USB section

Supported bit rate

MP3 (MPEG 1 Audio Layer-3):

32 - 320 kbps, VBR

Sampling frequencies

MP3 (MPEG 1 Audio Layer-3):

32/44.1/48 kHz

• (USB) port

USB-A (Full Speed)

– Continued on next page –

CD RADIO CASSETTE-CORDER

CFD-RS60CP

General

- Speaker
Full range: 10 cm dia., 3.2 Ω, cone type (2)
- Input
•  (USB) port: Type A, maximum current 500 mA
- Outputs
Headphones jack (stereo minijack)
For 16 - 68 Ω impedance headphones
- Power output
2.3 W + 2.3 W (at 3.2 Ω, 10% harmonic distortion)
- Power requirements
For CD radio cassette-corder:
SP model: 230 - 240 V AC, 50Hz
MX model: 120 V AC, 60Hz
E41 model: 230 V AC, 50Hz
9 V DC, 6 R20 (size D) batteries
For remote control:
3 V DC, 2 R03 (size AAA) batteries
- Power consumption
AC 18 W
- Battery life
For CD radio cassette-corder:
- | |
|----------------------------------|
| FM recording |
| Sony R20P: approx. 13.5 h |
| Sony alkaline LR20: approx. 20 h |
| Tape playback |
| Sony R20P: approx. 7 h |
| Sony alkaline LR20: approx. 12 h |
| CD playback |
| Sony R20P: approx. 2.5 h |
| Sony alkaline LR20: approx. 7 h |
- Dimensions
Approx. 420 × 158.5 × 260 mm (w/h/d)
(incl. projecting parts)
- Mass
Approx. 3.8 kg (incl. batteries)
- Supplied accessories
AC power cord (1)
Remote control (1)

Design and specifications are subject to change without notice.

- Abbreviation
E41 : AC 230V area in E model
MX : Mexican model
SP : Singapore model

CAUTION

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

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.

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.

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

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts. The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

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

SAFETY-RELATED COMPONENT WARNING!!

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

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.

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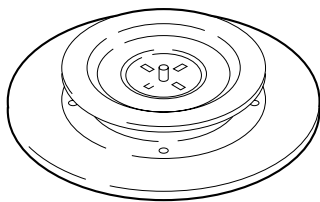
SECTION 1

SERVICING NOTES

CHUCK PLATE JIG ON REPAIRING

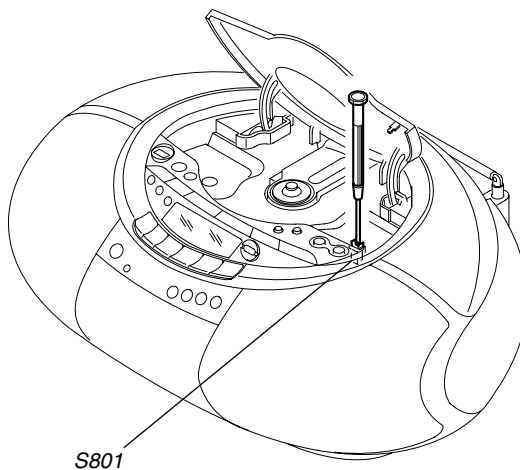
On repairing CD section, playing a disc without the lid (CD), use Chuck Plate Jig.

- Code number of Chuck Plate Jig: X-4918-255-1



LASER DIODE AND FOCUS SEARCH OPERATION CHECK

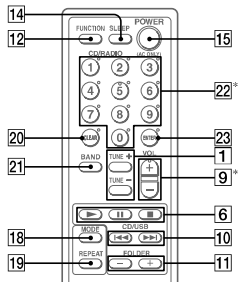
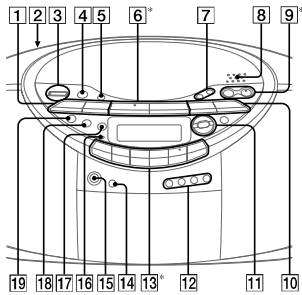
1. Turn ON the **OPERATE** button and press **CD** button to CD position.
2. Open the CD lid.
3. Turn on S801 with screwdriver, etc. as following figure.
4. Press the **▶||** (CD) button.
5. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
Objective lens moves up and down four times for focus search.



SECTION 2 GENERAL

This section is extracted from instruction manual.

Basic Operations



* VOLUME + (VOL. + on the remote) [9], [6], [13] and 5 [22] on the remote have a tactile dot.

Before using the unit

About the operating voltage

The unit's operating voltage is shown on the bottom of the unit. For changing the AM tuning interval, radio frequency range, and AC operation, check the operating voltage of your unit.

To turn on/off the power

Press POWER [15].

To adjust the volume

Press VOLUME +, - (VOL. +, - on the remote) [9].

To listen through headphones

Connect the headphones to the (headphones) jack [2].

To select the sound characteristic

Press SOUND [7] on the unit repeatedly to select the audio emphasis you want.

Choose	To get
ROCK	powerful, clean sounds, emphasizing low and high range audio
POP	light, bright sounds emphasizing high and middle range audio
JAZZ	percussive sounds, emphasizing bass audio
VOCAL	the presence of vocals, stressing middle range audio
OFF	the whole dynamic range for music such as classical music

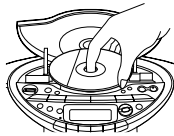
To reinforce the bass sound

Press MEGA BASS [7] on the unit.

"MEGA BASS" appears in the display. To return to normal sound, press the button again.

Playing a CD/MP3 disc

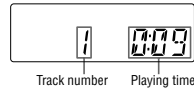
- Press CD [12] on the unit.
(On the remote, press POWER [15] and then press FUNCTION [12] repeatedly until "CD" appears in the display.)
- Press ▲ PUSH OPEN/CLOSE [8] on the unit, and place a disc with the label side up on the CD compartment.
To close the CD compartment, press ▲ PUSH OPEN/CLOSE [8] on the unit.



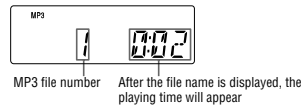
- Press ► [6] on the unit (► on the remote) [6].
The unit plays all the tracks/MP3 files once. When you place MP3 discs, "MP3" appears in the display after the unit reads the file information.

Basic Operations

Audio CD



MP3 disc



To	Press
Pause playback	⏸ on the unit (⏸ on the remote) [6]. To resume play, press it again.
Stop playback	■ [6].
Go to the next track/MP3 file	⏭ [10].
Go back to the previous track/MP3 file	⏮ [10].
Select a folder on an MP3 disc	⏭ + on the unit to go forward and on the unit to go backward [11]. (On the remote, use FOLDER + or - [11].)
Locate a point while listening to the sound	⏭ (forward) or ⏮ (backward) [1] on the unit while playing and hold it until you find the point (On the remote, use ⏭ or ⏮ [10].)
Locate a point while observing the display	⏭ (forward) or ⏮ (backward) [1] on the unit in pause and hold it until you find the point (On the remote, use ⏭ or ⏮ [10].)
Locate a specific track/MP3 file directly	the number button [22] of the track/MP3 file on the remote.
Remove the CD	▲ PUSH OPEN/CLOSE [8].

Tips

- Playback starts from the track/MP3 file you last stopped playing (Resume play). During stop, the track/MP3 file number to be played is displayed.
- To cancel the resume play (to start play from the beginning of the first track/MP3 file), press ■ [6] or open the CD compartment in stop mode.

To locate a track by number on the remote

(Example)

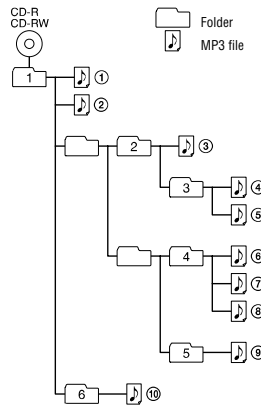
For track/MP3 file number 1: Press 1 [22], and then ENTER [23].
For track/MP3 file number 12: Press 1, 2 [22], and then ENTER [23].
For track/MP3 file number 123: Press 1, 2, 3 [22], and then ENTER [23].

Note

You cannot locate a specific track/MP3 file if "SHUF" or "PGM" is lit in the display. Turn off the indication by pressing MODE [18].

Example of folder structure and playing order

The playing order of the folders and files is as follows:



Notes on MP3 discs

- When the disc is inserted, the unit reads all the files on that disc. During this time, "READING" is displayed. If there are many folders or non-MP3 files on the disc, it may take a long time for play to begin or for the next MP3 file to play.
- Do not save unnecessary folders or files other than MP3 ones in the disc to be used for MP3 listening.
- Locating a specific MP3 file using the number buttons [22] on the remote is only available for the MP3 files in the selected folder.
- A folder that does not include an MP3 file is skipped.
- Maximum number of files: 255
- Maximum number of folders: 150
- Maximum number of folders and files in total: 300
- Maximum directory steps: 8
- Folder names and file names can be displayed with up to 32 characters.
- The characters A - Z, a - z, 0 - 9, and _ can be displayed on this unit. Other characters are displayed as "-".
- This unit conforms to Version 1.1 of the ID3 tag format. If the file has the ID3 tag information, "song title", "artist name", and "album name" can be displayed.
- When naming, be sure to add the file extension "mp3" to the file name.
- If you put the extension "mp3" to a file other than an MP3 file, the unit cannot recognize the file properly and will generate random noise that could damage your speakers.
- The file name does not correspond to the ID3 tag.

Listening to the radio

- Press RADIO [12] on the unit (BAND [21] on the remote) repeatedly.
Each time you press the button, the indication changes as follows:
"FM" → "AM".
- Hold down TUNE + or - [1] until the frequency digits begin to change in the display.
The unit automatically scans the radio frequencies and stops when it finds a clear station.
If you cannot tune in a station, press TUNE + or - [1] repeatedly to change the frequency step by step.
When an FM stereo broadcast is received, "ST" appears.

Tip

If the FM broadcast is noisy, press MODE [18] until "Mono" appears in the display and the radio will play in monaural.

Changing the AM tuning interval (Except for the 120 V model)

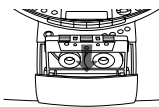
If you need to change the AM tuning interval, do the following:

- Press RADIO [12] on the unit until "AM" is displayed.
- Press DISP/ENT/MEMORY [17] on the unit for 2 seconds.
- Press RADIO [12] on the unit for 2 seconds.
"9K STEP" or "10K STEP" flashes.
- Press PRESET + or - [10] on the unit to select "9K STEP" for 9 kHz interval or "10K STEP" for 10 kHz interval.
- Press DISP/ENT/MEMORY [17] on the unit.
After changing the tuning interval, you need to reset your preset AM radio stations.

Playing a tape

Use buttons on the unit for the operation.

- Press TAPE [13] on the unit.
- Press ■ [13] on the unit, and insert the tape into the tape compartment with the side you want to play facing you. Use TYPE I (normal) tape only. Close the compartment.
Make sure there is no slack in the tape to avoid damaging the tape or the unit.



- Press ◀ [13] on the unit.
The unit starts playing.

To	Press
Pause playback	⏸ [13] on the unit. To resume play, press it again.
Stop playback	■ [13] on the unit.
Fast-forward or rewind	⏭ or ⏮ (fast forward or rewind) [13] on the unit.
Eject the cassette	▲ [13] on the unit.

Recording on a tape

Use buttons on the unit for the operation.

- Press ■ [13] on the unit to open the tape compartment and insert a blank tape with the side you want to record on facing you. Use TYPE I (normal) tape only. Close the compartment.
- Select the program source you want to record.
To record from the CD player, place a CD and press CD [12] on the unit.
To record from the radio, tune in the station you want.
- Press ● [13] on the unit to start recording (◀ is depressed automatically).

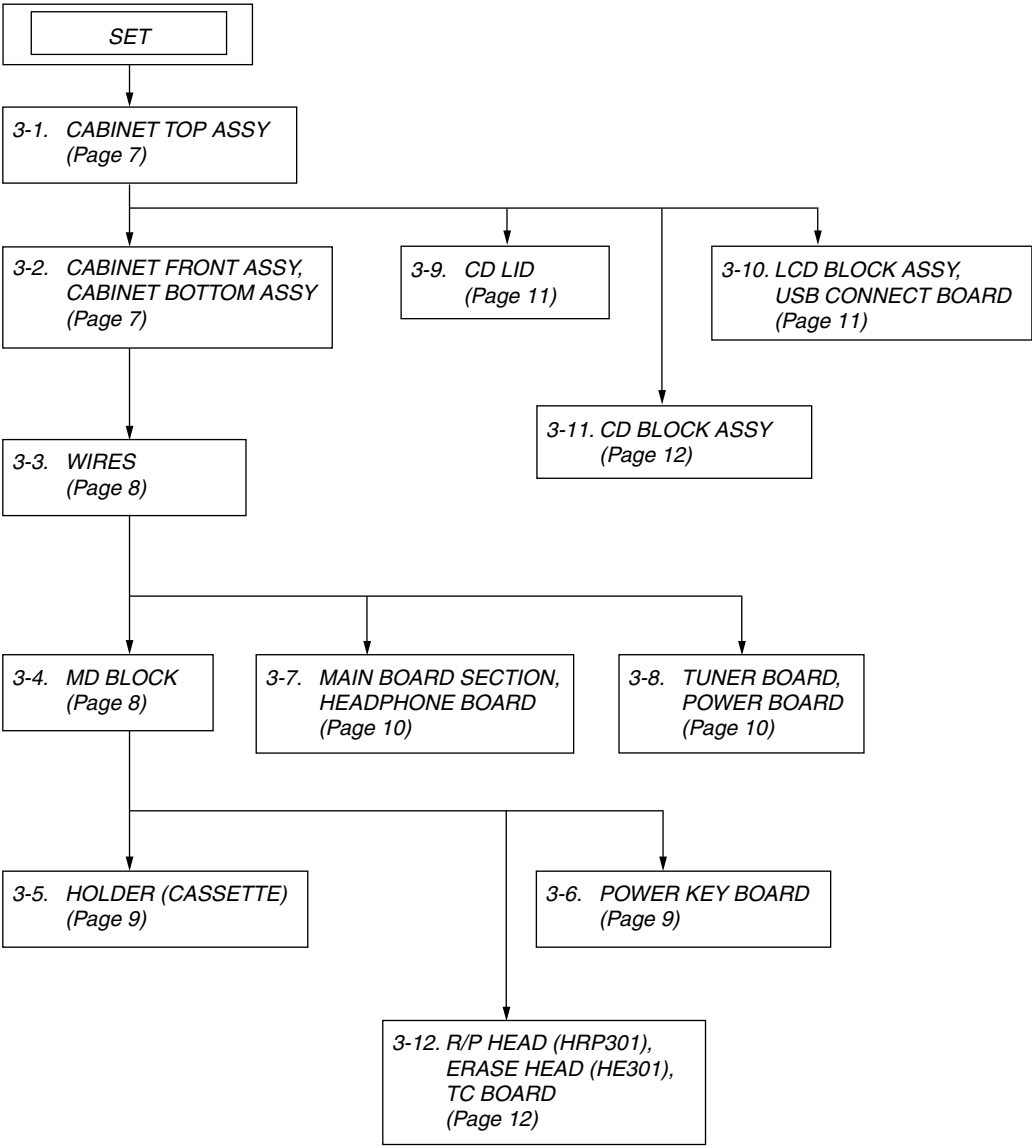
To	Press
Pause recording	⏸ [13] on the unit. Press the button again to resume recording.
Stop recording	■ [13] on the unit.

Tips

- Adjusting the volume or the audio emphasis will not affect the recording level.
- If the AM program makes a whistling sound after you've pressed ● [13] in step 3, press MODE [18] on the unit to select the position of ISS (Interference Suppress Switch) that most decreases the noise.
- For the best results, use the AC power as a power source for recording.
- To erase a recording, proceed as follows:
1 Insert the tape whose recording you want to erase.
2 Press TAPE [12] on the unit.
3 Press ● [13] on the unit.

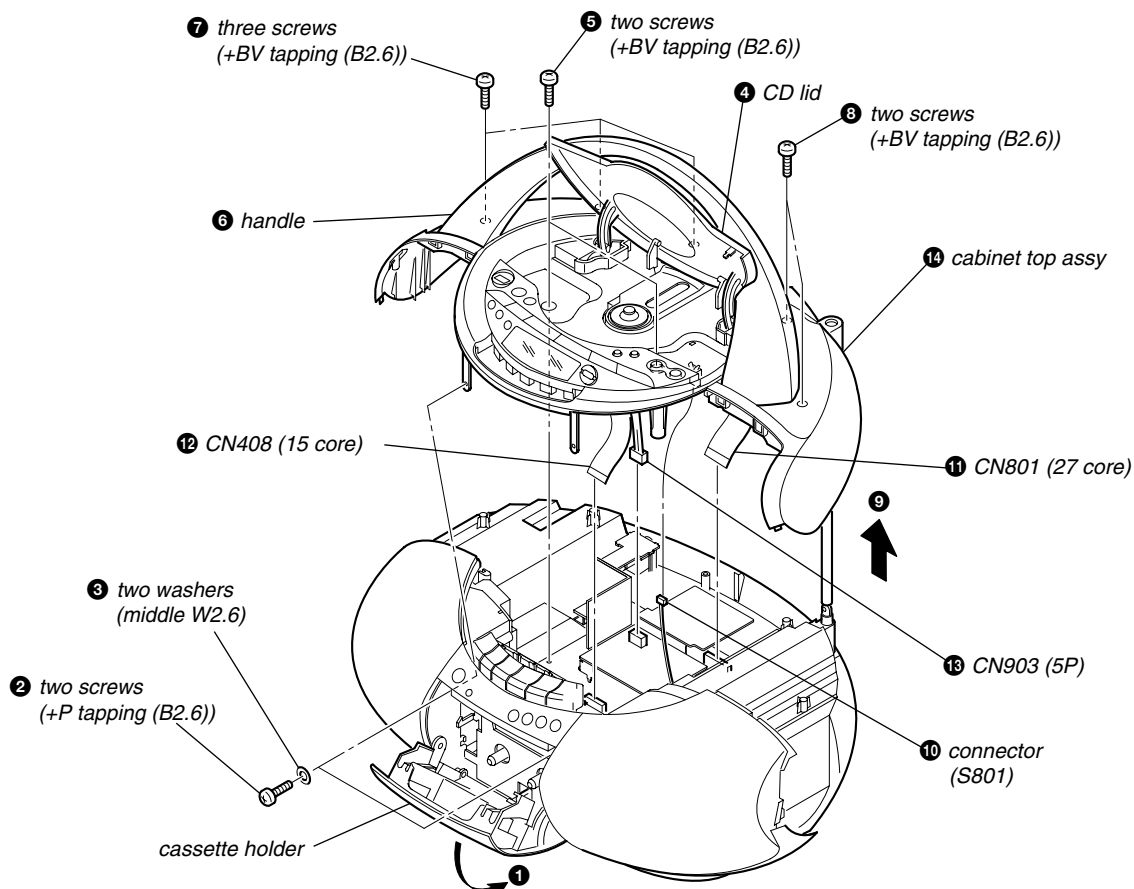
SECTION 3
DISASSEMBLY

Note: Disassemble the unit in the order as shown below.

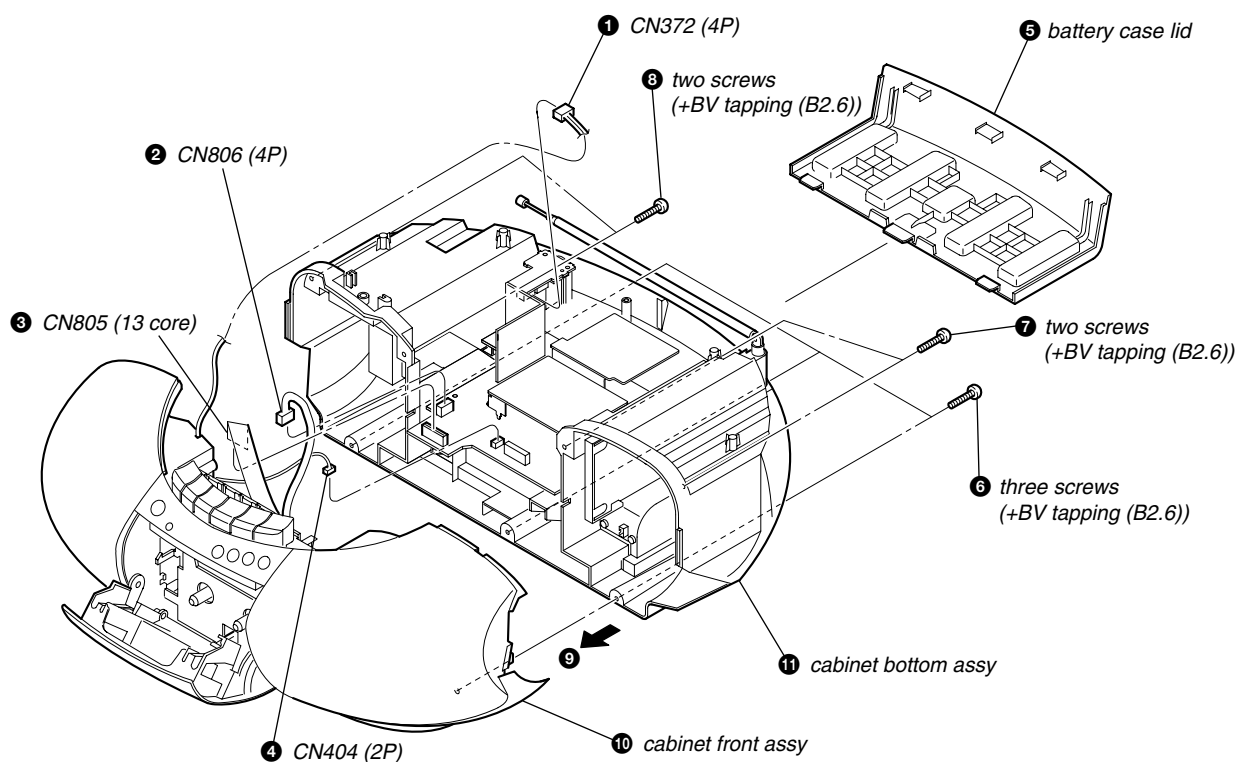


Note: Follow the disassembly procedure in the numerical order given.

3-1. CABINET TOP ASSY

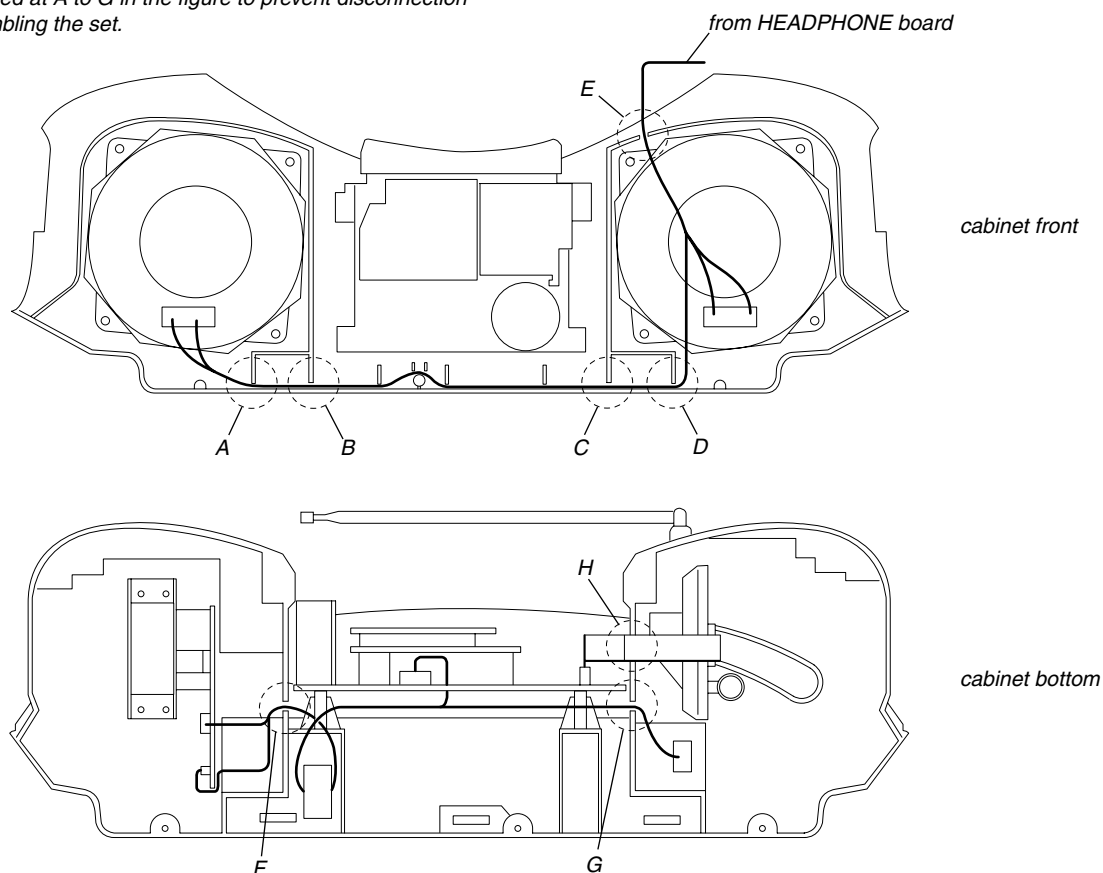


3-2. CABINET FRONT ASSY, CABINET BOTTOM ASSY

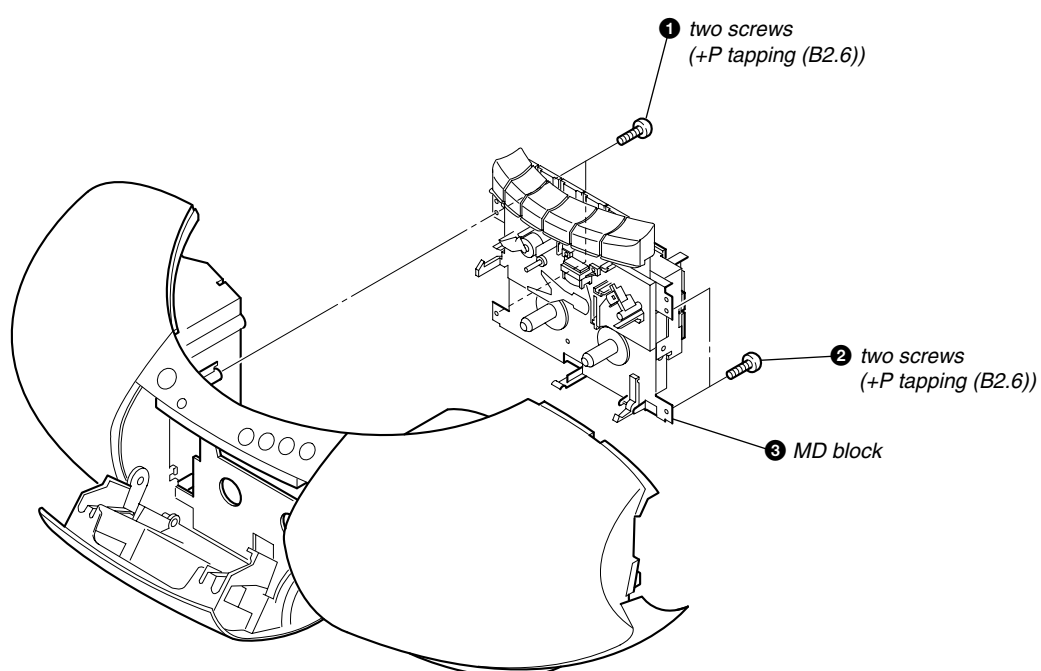


3-3. WIRES

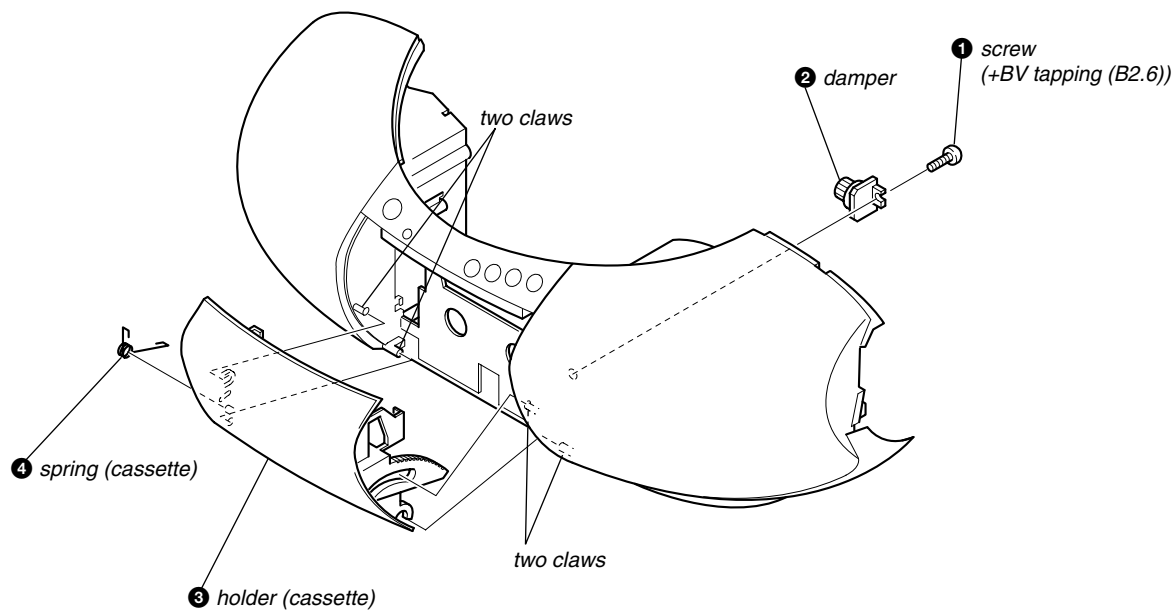
Put flat cable and wires between the cabinets and push them in the grooves located at A to G in the figure to prevent disconnection before assembling the set.



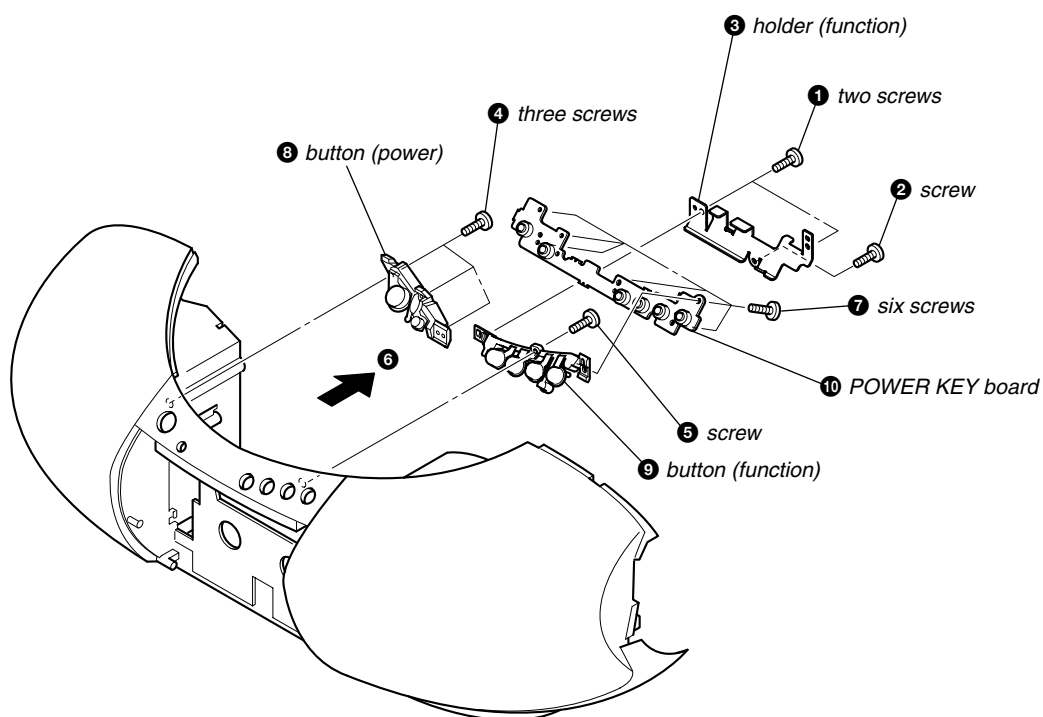
3-4. MD BLOCK



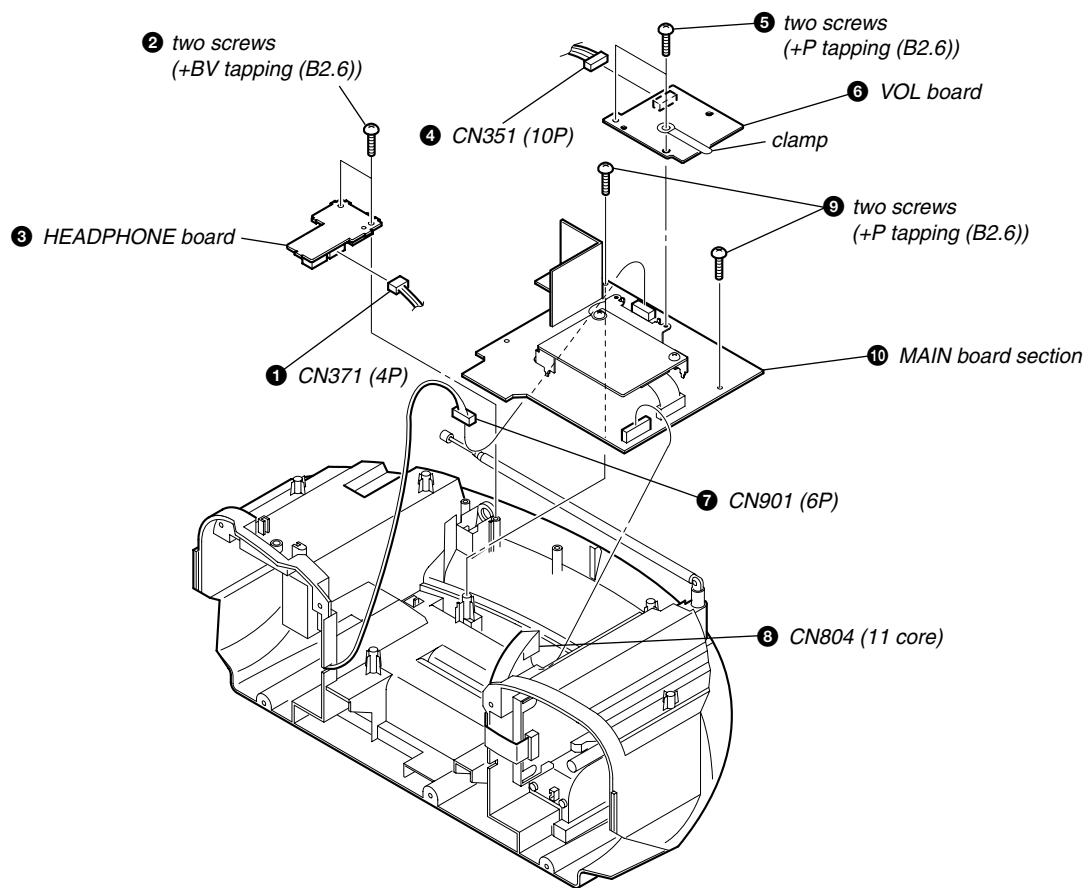
3-5. HOLDER (CASSETTE)



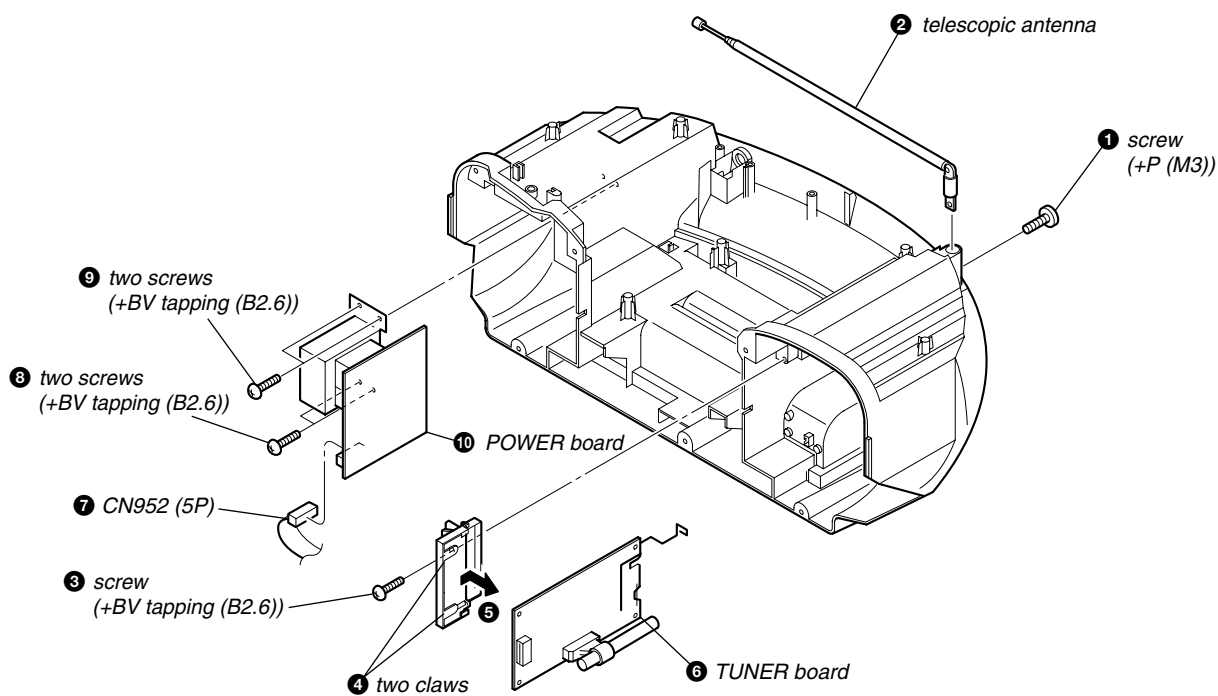
3-6. POWER KEY BOARD



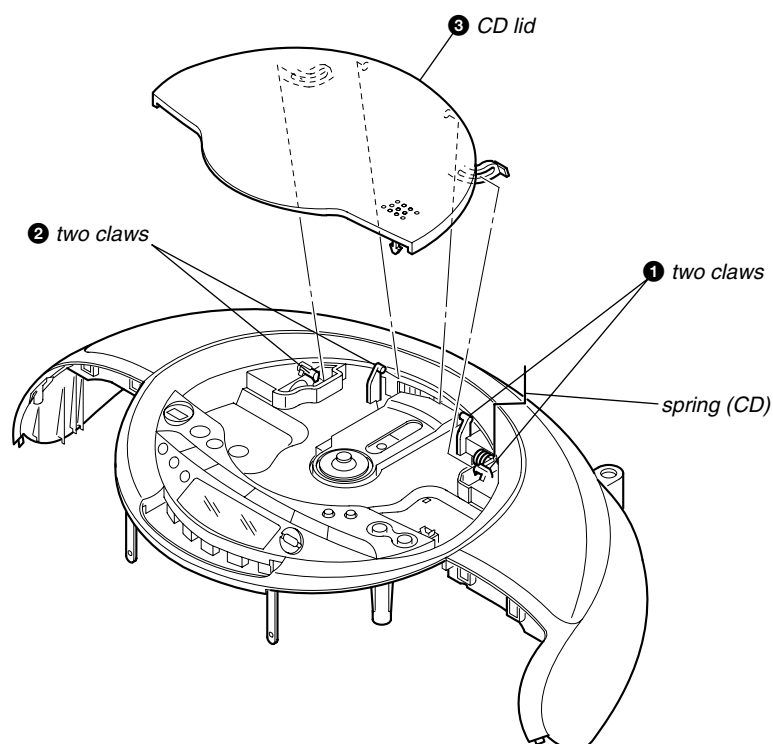
3-7. MAIN BOARD SECTION, HEADPHONE BOARD



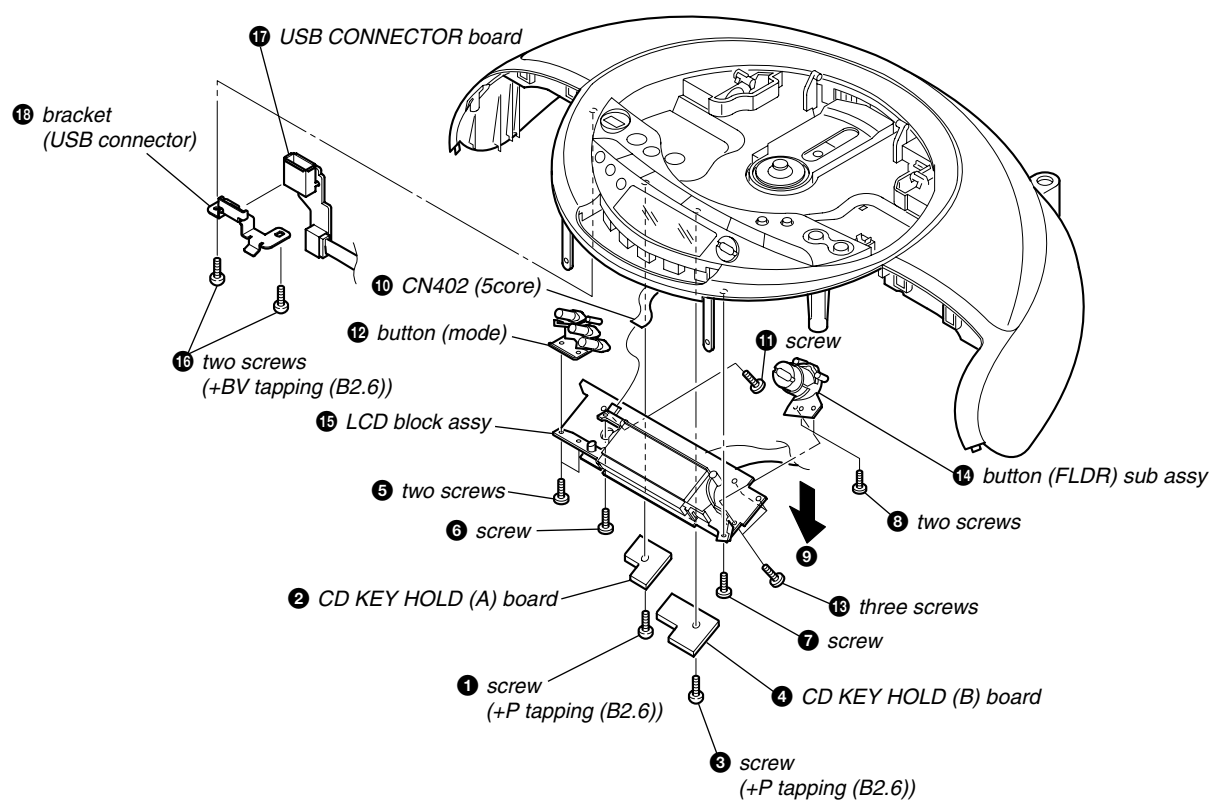
3-8. TUNER BOARD, POWER BOARD



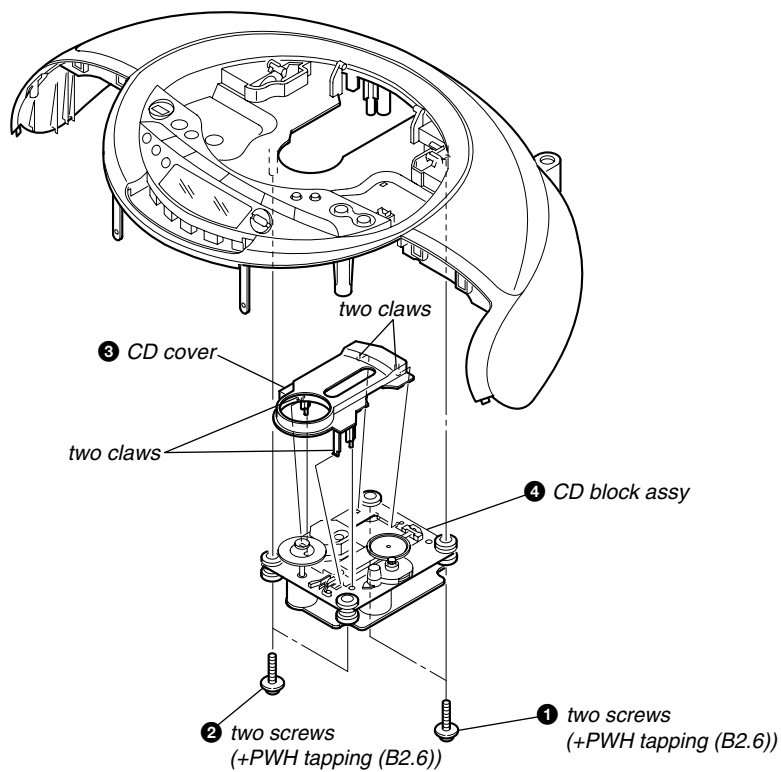
3-9. CD LID



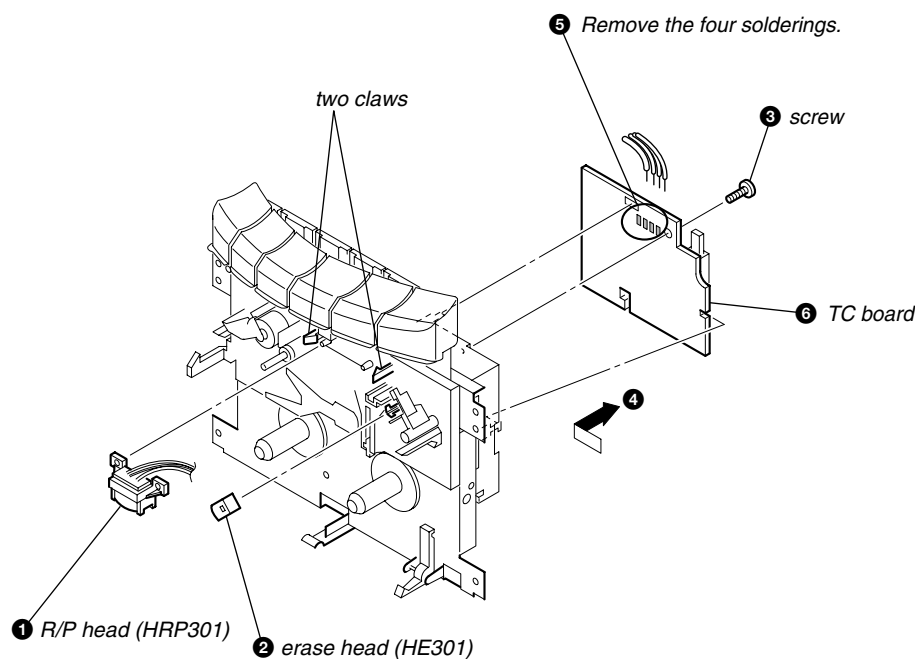
3-10. LCD BLOCK ASSY, USB CONNECT BOARD



3-11. CD BLOCK ASSY



3-12. R/P HEAD (HRP301), ERASE HEAD (HE301), TC BOARD



SECTION 4 MECHANICAL ADJUSTMENTS

• Precaution

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

record/playback heads	pinch roller
erase head	rubber belts
capstan	idlers
- Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head magnetizer close to the erase head.)
- Do not use a magnetized screwdriver for the adjustments.
- The adjustments should be performed with the rated power supply voltage (9V) unless otherwise noted.

• Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	2.95 – 6.86 mN • m (30 – 70 g • cm) (0.42 – 0.97 oz • inch)
FWD back tension	CQ-102C	0.15 – 0.53 mN • m (1.5 – 5.5 g • cm) (0.021 – 0.076 oz • inch)
FF	CQ-201B	more than 5.88 mN • m (more than 60 g • cm) (more than 0.83 oz • inch)
REW	CQ-201B	more than 5.88 mN • m (more than 60 g • cm) (more than 0.83 oz • inch)

• Tape Tension Measurement

Mode	Torque meter	Meter reading
FWD	CQ-403A	more than 100 g (more than 3.53 oz)

SECTION 5 ELECTRICAL ADJUSTMENTS

TAPE SECTION

0 dB = 0.775 V

• Standard Output Level

Output terminal	HP OUT
load impedance	32 Ω
output signal level	0.25 V (–10 dB)

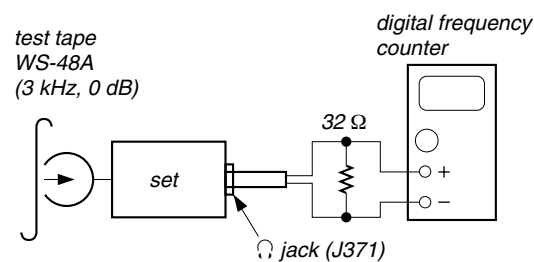
• Test Tape

Type	Signal	Used for
WS-48A	3 kHz, 0 dB	tape speed adjustment

Tape Speed Adjustment

Procedure:

Mode: playback



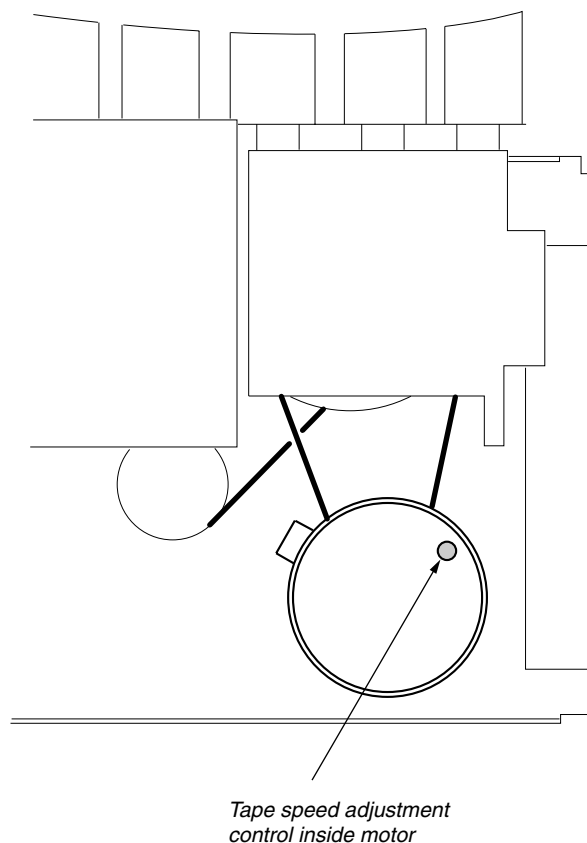
Adjust so that the value on the digital frequency counter is 3,000 Hz.

Specification Value:

Digital frequency counter
2,910 to 3,090 Hz

Adjust so that the frequency at the beginning and that at the end of tape winding are between 2,910 to 3,090 Hz.

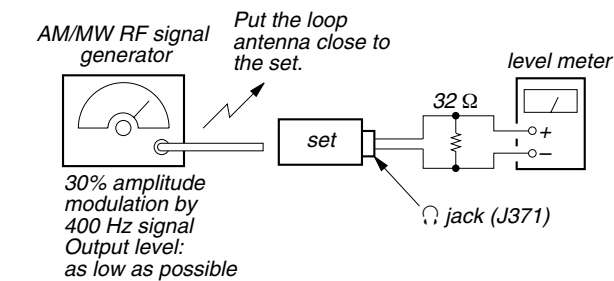
Adjustment Location:



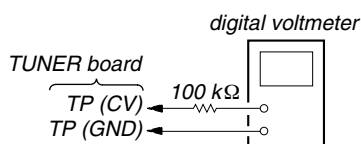
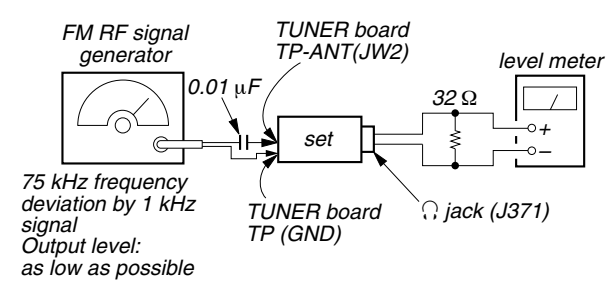
TUNER SECTION

0 dB = 1 μV

[AM]
Setting:
Function: RADIO
Band: AM



[FM]
Setting:
Function: RADIO
BAND button: FM



- Repeat the procedures in each adjustment several times, and the tracking adjustments should be finally done by the trimmer capacitors.
- Remove FM antenna in FM adjustment.

AM IF ADJUSTMENT	
Adjust for a maximum reading on level meter	
T1	450 kHz

AM FREQUENCY COVERAGE ADJUSTMENT (MX model)		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L4	530 kHz	1.0 ± 0.05 V
Confirmation	1,710 kHz	5.3 ± 0.7 V

AM FREQUENCY COVERAGE ADJUSTMENT (E41, SP model)		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L4	531 kHz	1.0 ± 0.05 V
Confirmation	1,611 kHz	4.8 ± 0.7 V

AM TRACKING ADJUSTMENT (MX model)	
Adjust for a maximum reading on level meter	
L3	620 kHz
CT3	1,400 kHz

AM TRACKING ADJUSTMENT (E41, SP model)	
Adjust for a maximum reading on level meter	
L3	621 kHz
CT3	1,404 kHz

FM IF ADJUSTMENT	
Adjust for a minimum reading on level meter	
T2	10.7 MHz

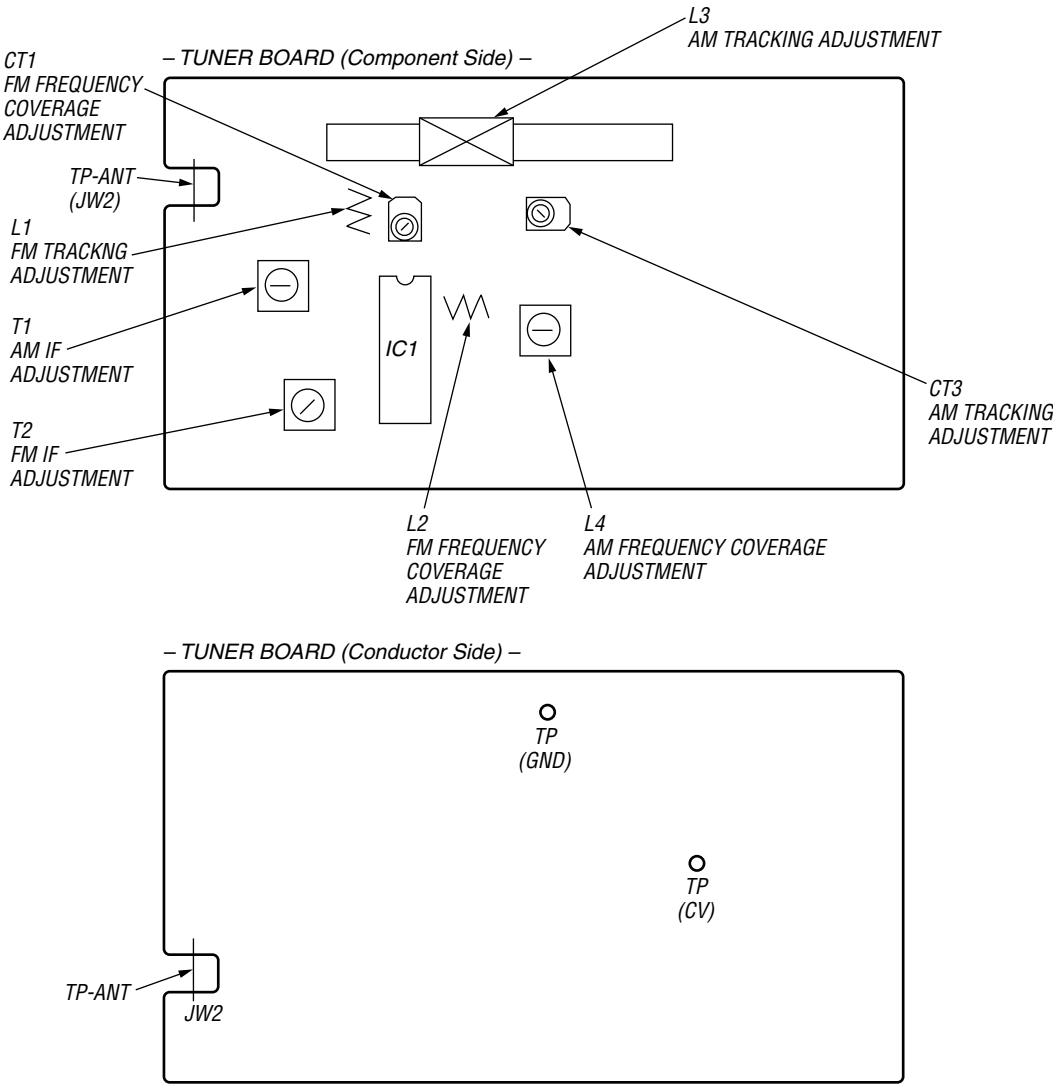
FM FREQUENCY COVERAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L2	108 MHz	3.0 ± 0.2 V
Confirmation	87.5 MHz	1.3 ± 0.3 V

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L1	87.5 MHz
CT1	108 MHz

- **Abbreviation**
E41 : AC 230V area in E model.
MX : Mexican model.
SP : Singapore model.

Adjustment and Connecting Location:
TUNER board (See page 15)

Adjustment and Connecting Location:



CD SECTION

[TEST DISC LIST]

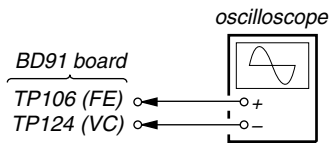
Use the following test disc on test mode.

- CD: YEDS-18 (PART No. 3-702-101-01)
or
PATD-012 (PART No. 4-225-203-01)

Note:

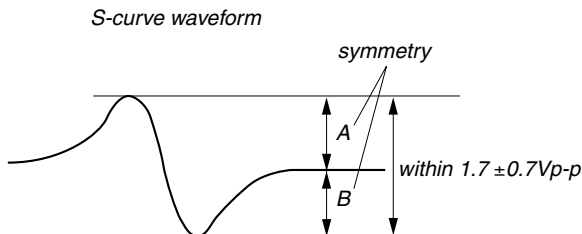
1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MW impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

[S-CURVE CHECK]



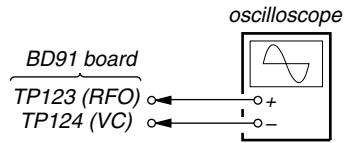
Procedure :

1. Connect an oscilloscope to TP106 (FE) and TP124 (VC).
2. Turn the power on.
3. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search).
4. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within $1.7 \pm 0.7 V_{p-p}$.



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

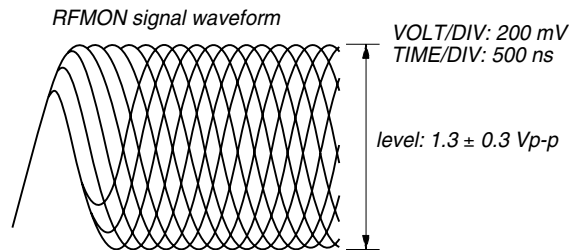
[RF LEVEL CHECK]



Procedure :

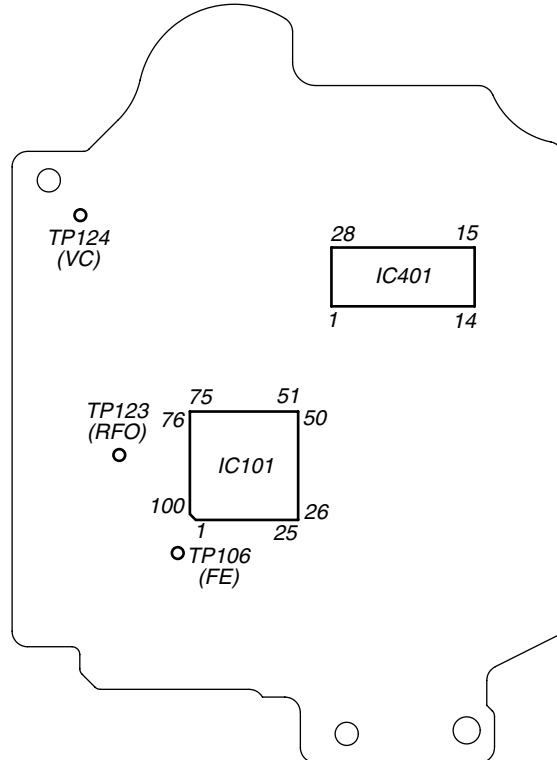
1. Connect an oscilloscope to TP123 (RFO) and TP124 (VC).
2. Turn the power on.
3. Load a disc (YEDS-18) and playback.
4. Confirm that oscilloscope waveform is clear and check if RF signal level is correct or not.

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



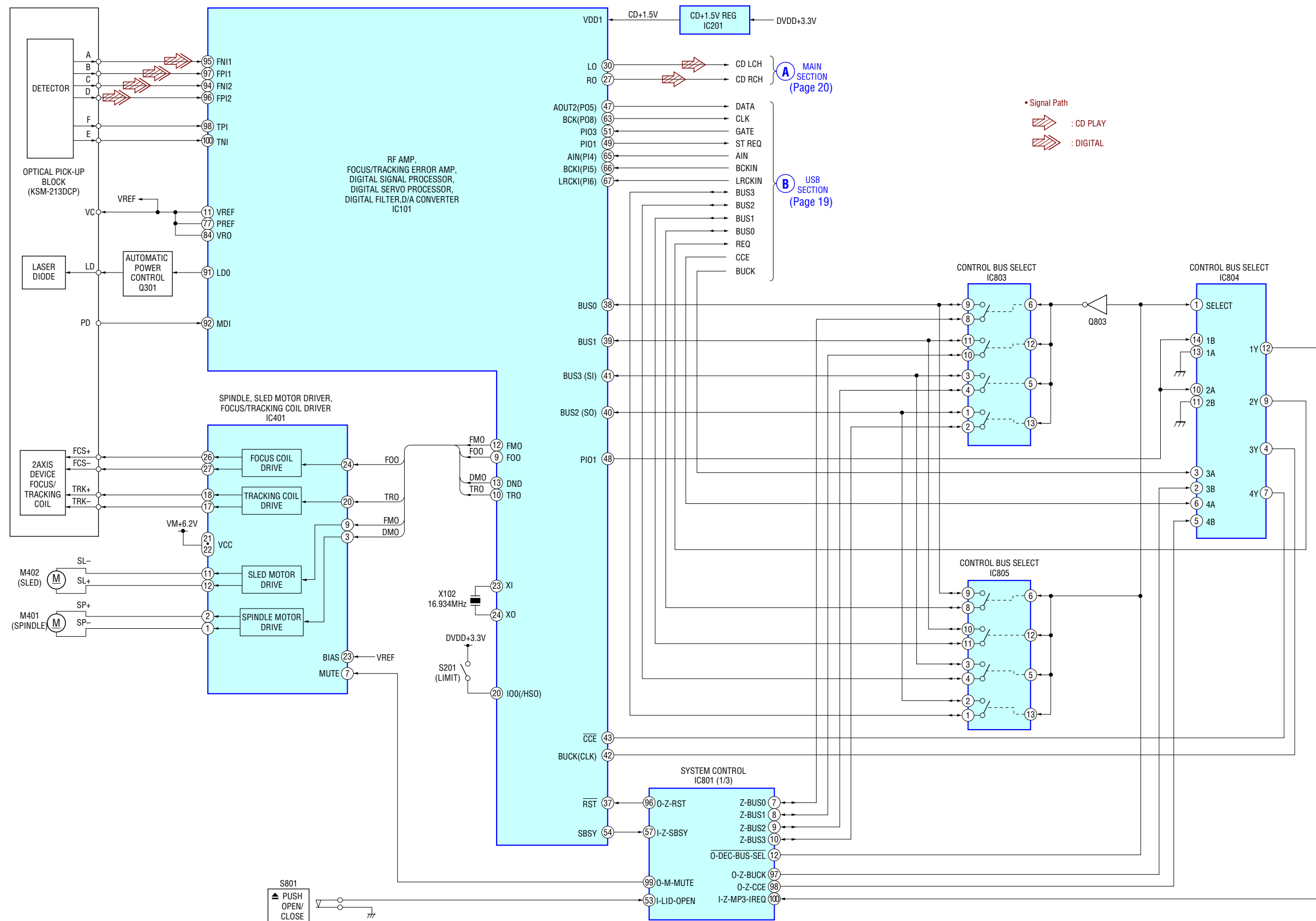
Connecting Location: CD board

– BD91 Board (SIDE B) –

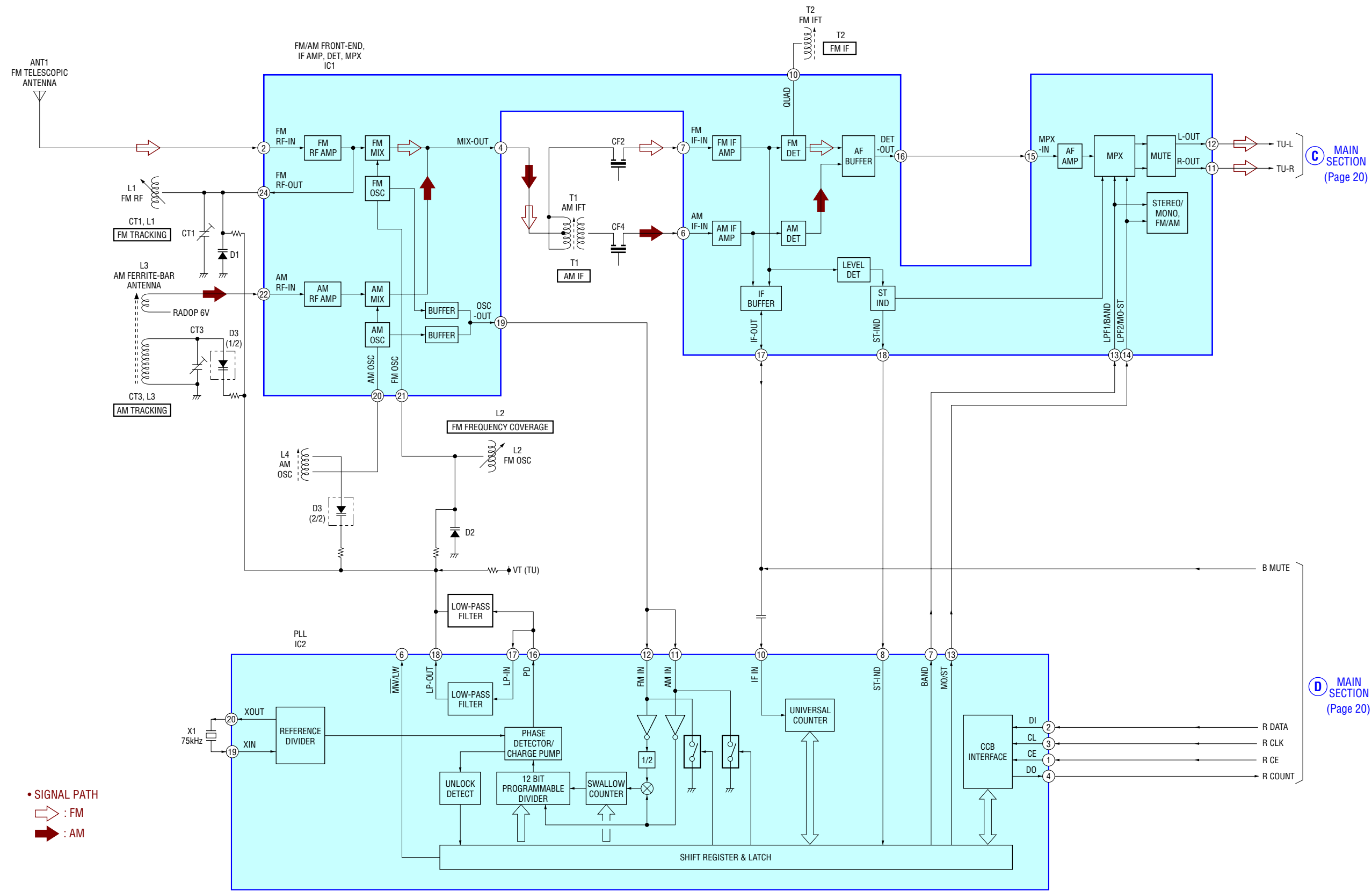


SECTION 6 DIAGRAMS

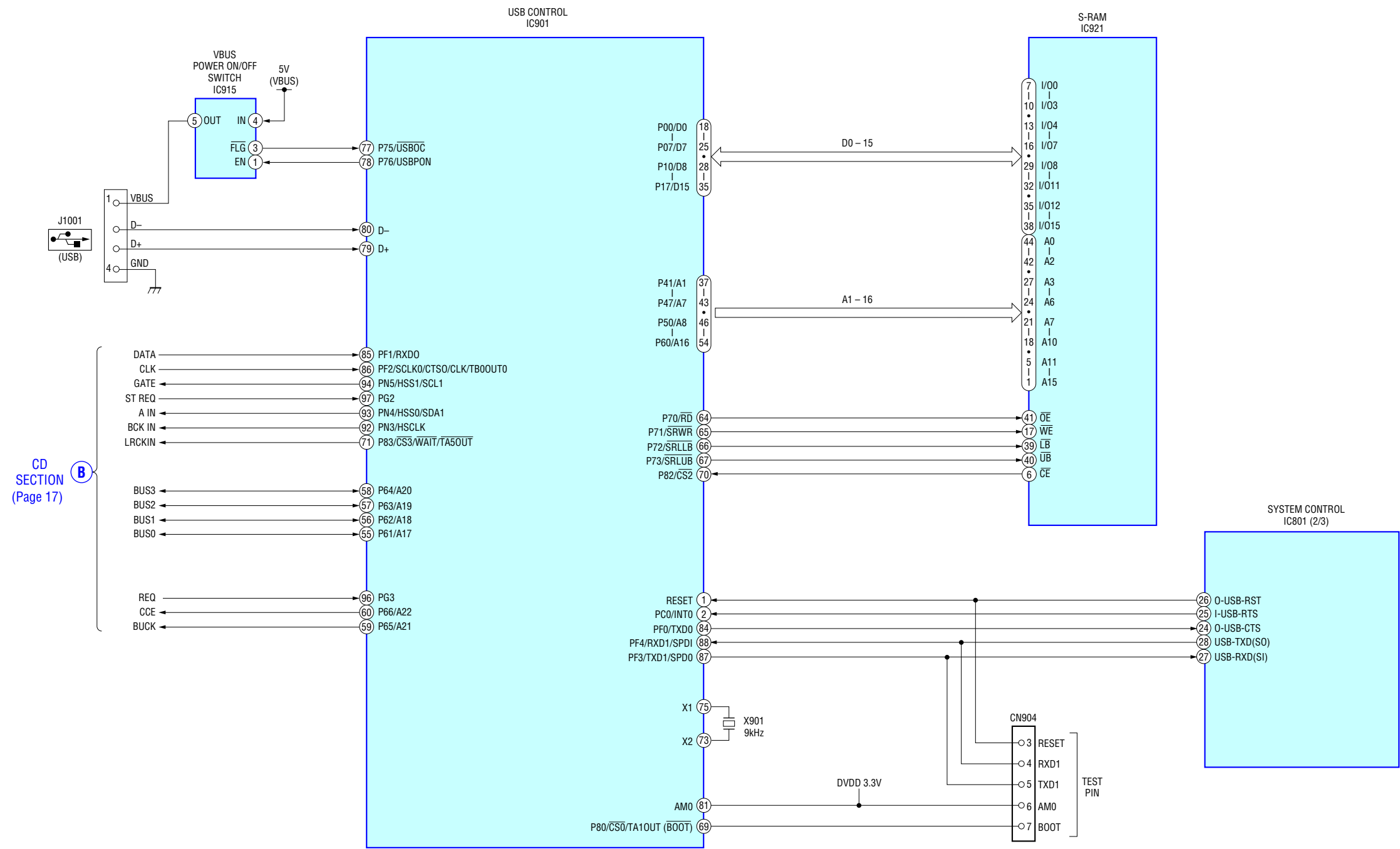
6-1. BLOCK DIAGRAM – CD Section –



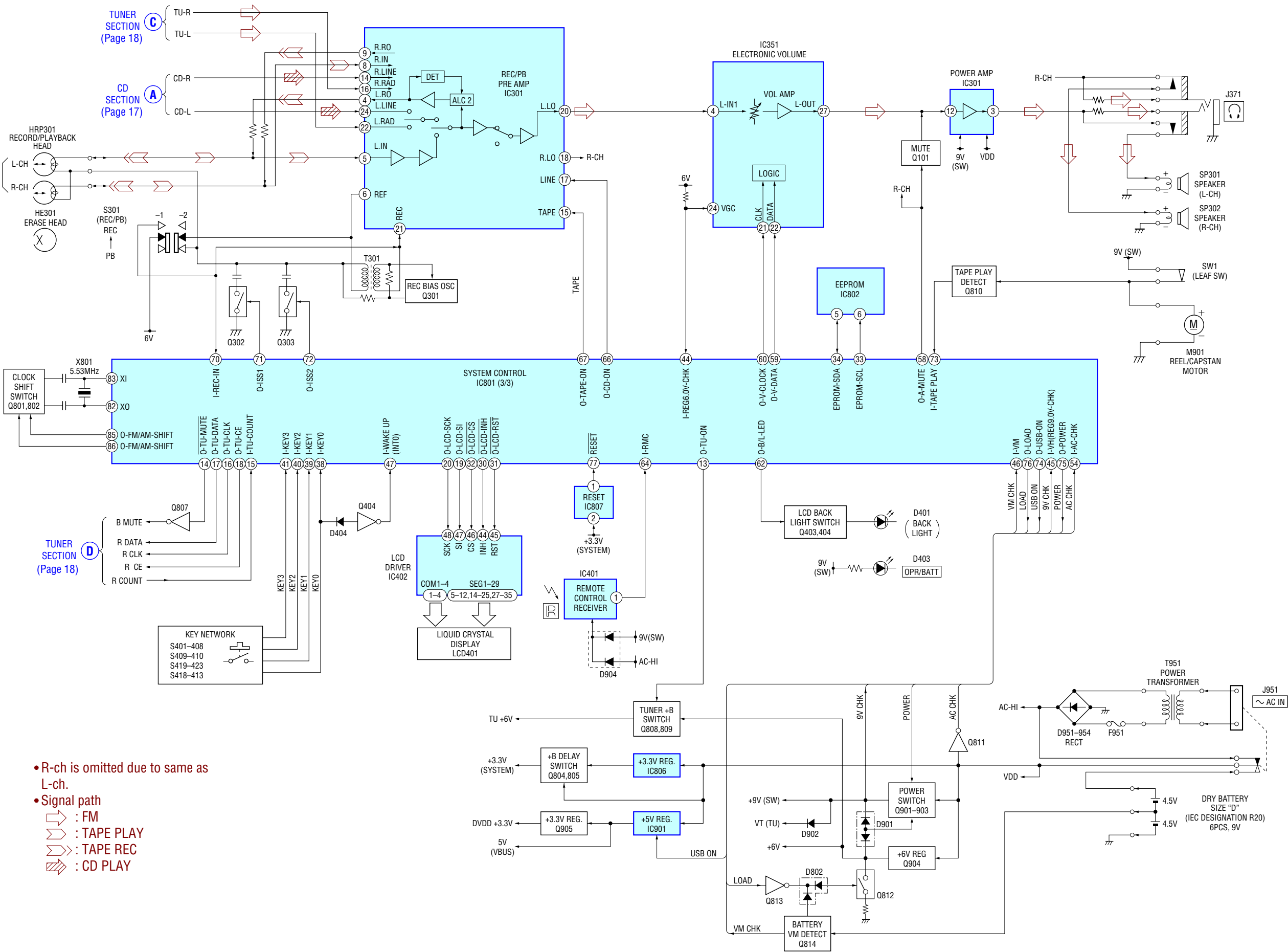
6-2. BLOCK DIAGRAM –TUNER Section –



6-3. BLOCK DIAGRAM – USB Section –



6-4. BLOCK DIAGRAM – MAIN Section –



- R-ch is omitted due to same as L-ch.
- Signal path
 - ➡ : FM
 - : TAPE PLAY
 - : TAPE REC
 - : CD PLAY

• NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

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

Note on Schematic Diagrams:

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

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

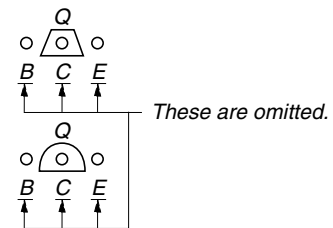
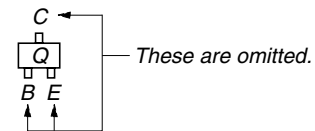
-  : B+ Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
 - BD91 Board –
no mark : CD PLAY
 - TUNER Board –
no mark : FM
() : AM
 - USB Board –
no mark : USB PLAY
 - Other Boards –
no mark : FM
() : PB
< > : REC
[] : CD PLAY
<< >> : USB
- Voltages are taken with a VOM (Input impedance 10 MΩ). 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.
 -  : FM
 -  : AM
 -  : PB (TAPE)
 -  : REC (TAPE)
 -  : CD PLAY (ANALOG OUT)
 -  : CD PLAY (DIGITAL OUT)
- Abbreviation
 - E41 : AC 230V area in E model.
 - MX : Mexican model.
 - SP : Singapore model.

Note on Printed Wiring Boards:

-  : parts extracted from the component side.
 -  : parts extracted from the conductor side.
 -  : indicates side identified with part number.
 -  : internal component.
 -  : Pattern from the side which enables seeing.
- (The other layers' patterns are not indicated.)

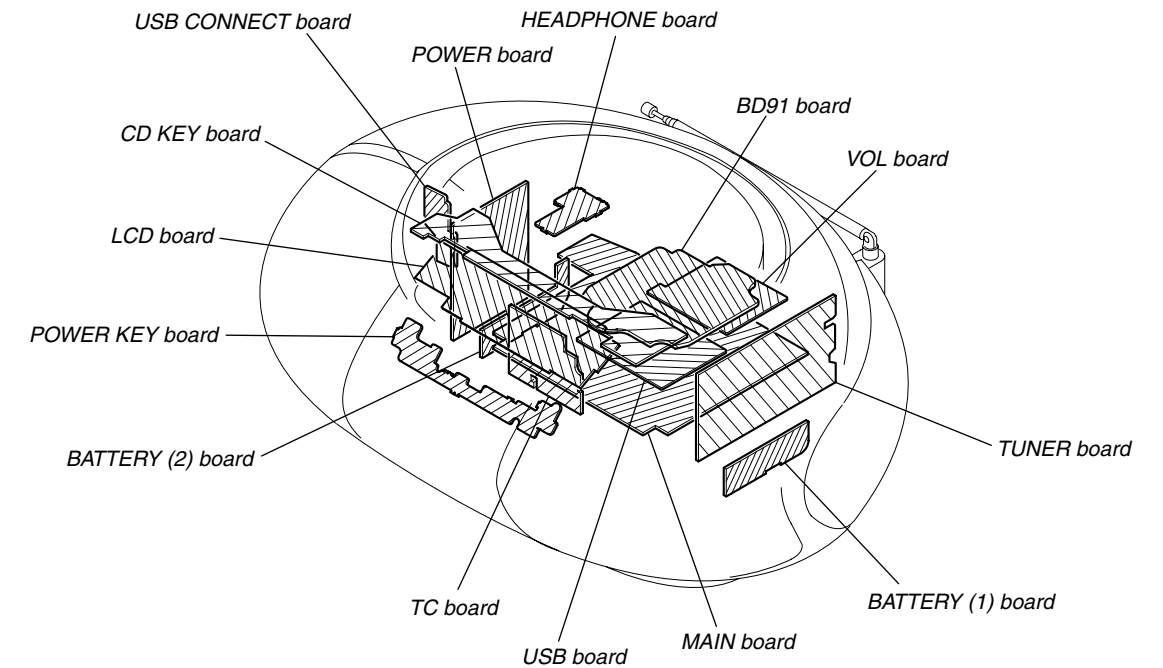
Caution:

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

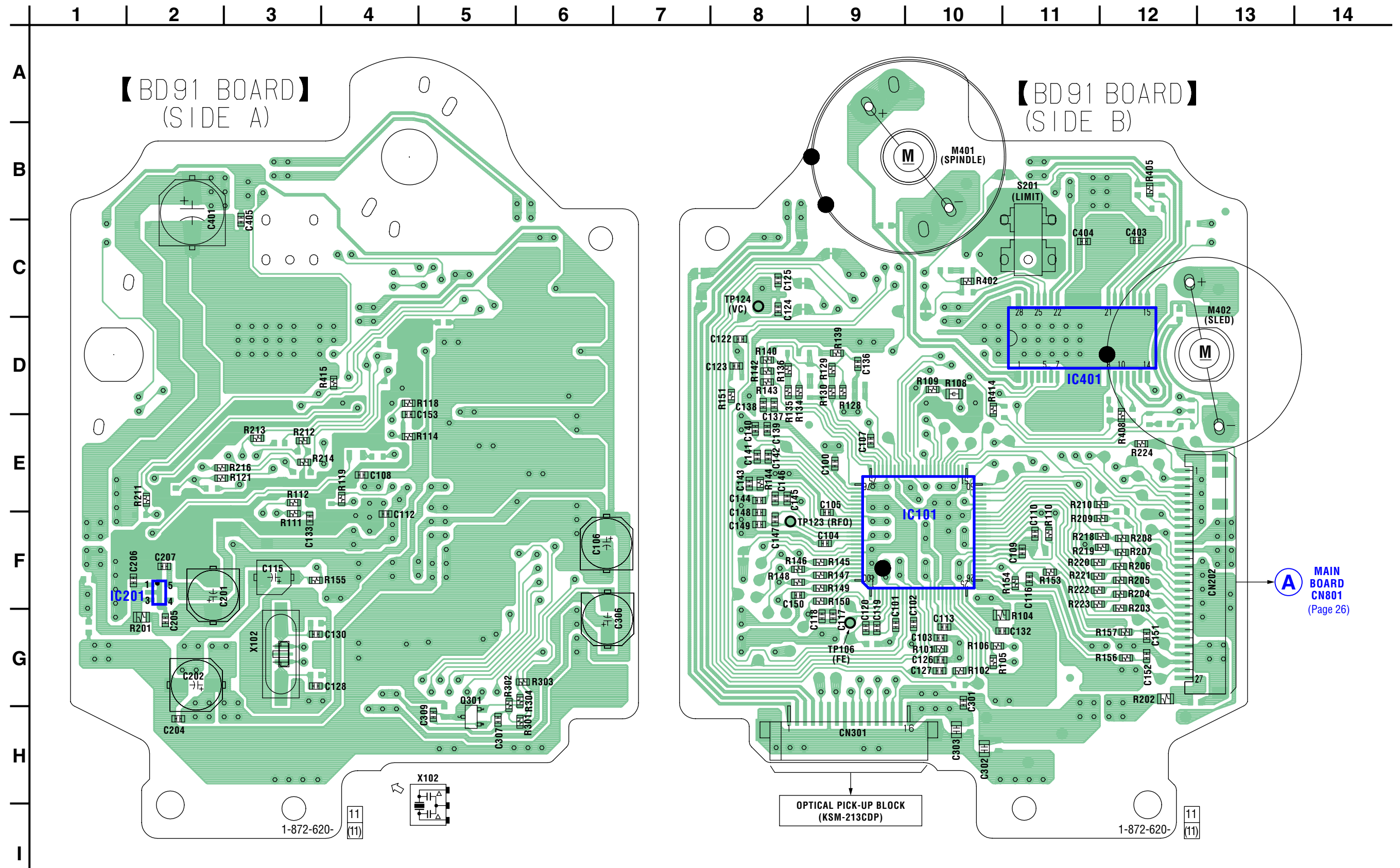


- Abbreviation
E41 : AC 230V area in E model.
MX : Mexican model.
SP : Singapore model.

- **Circuit Boards Location**

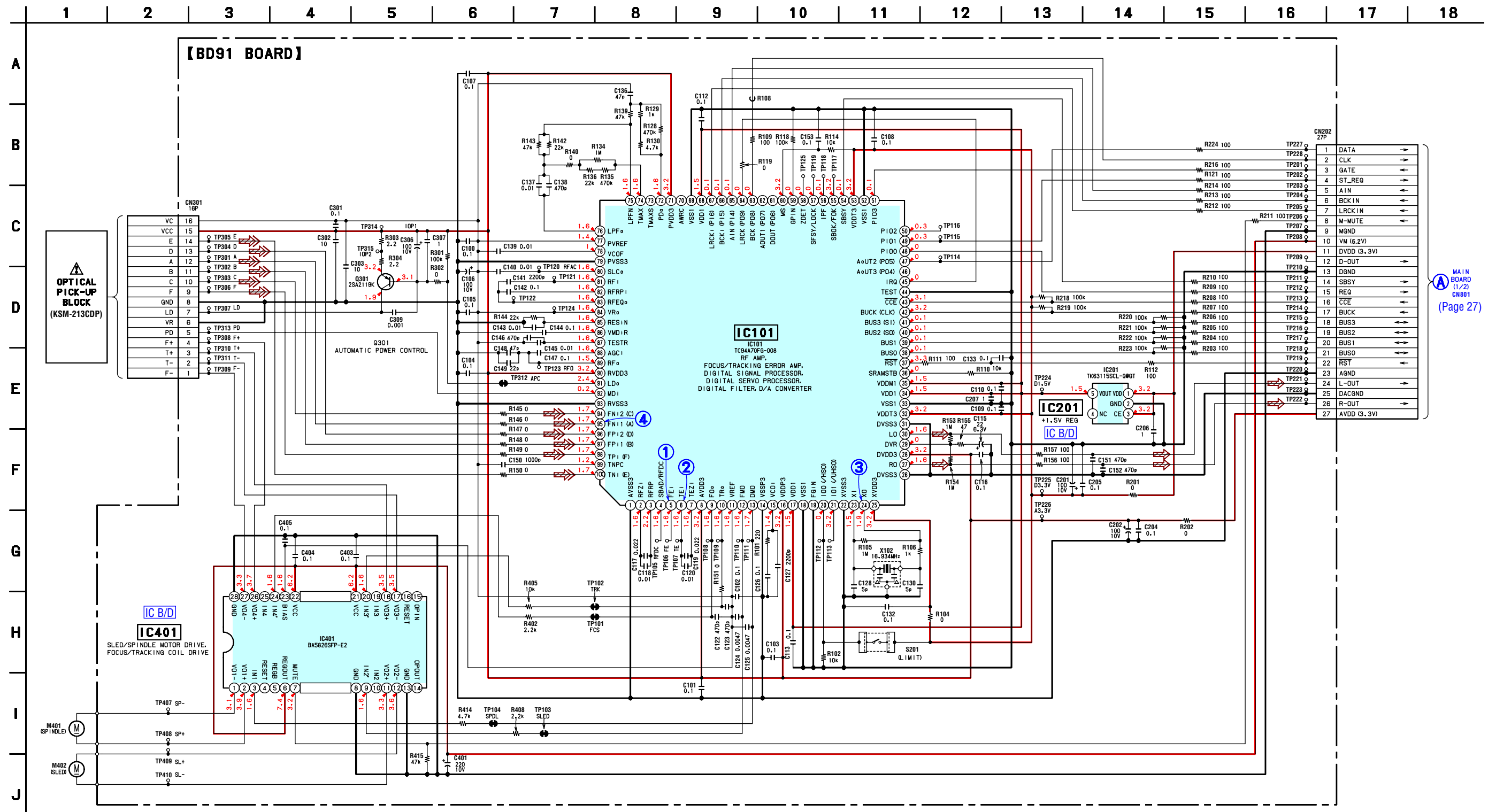


6-5. PRINTED WIRING BOARD – BD91 Section – • See page 21 for Circuit Boards Location. : Uses unleaded solder.

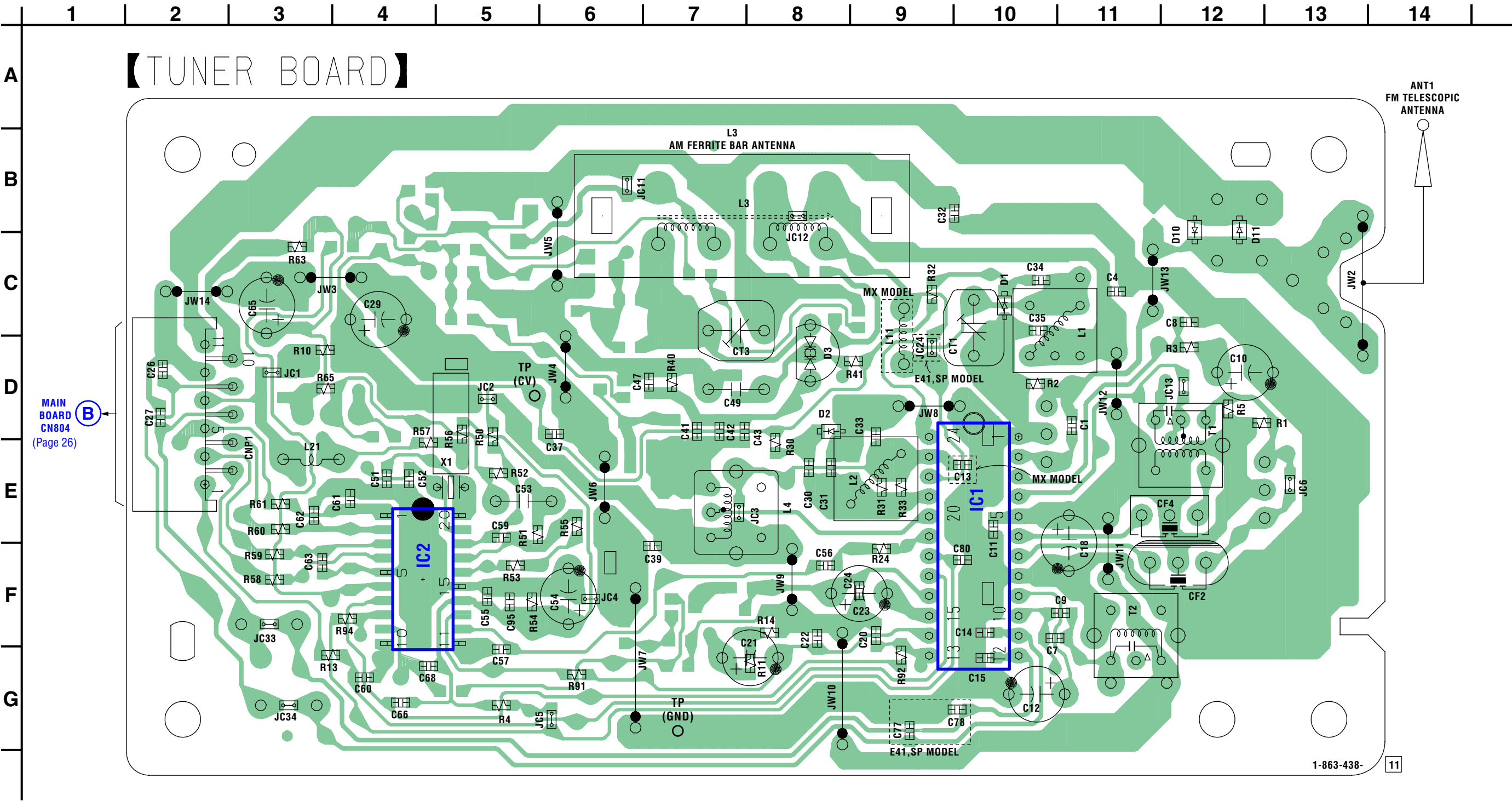


6-6. SCHEMATIC DIAGRAM – BD91 Section –

- See page 39 for Waveforms.
- See page 40 for IC Block Diagrams.
- See page 43 for IC Pin Description of IC101.



6-7. PRINTED WIRING BOARD –TUNER Section – • See page 21 for Circuit Boards Location.  : Uses unleaded solder.

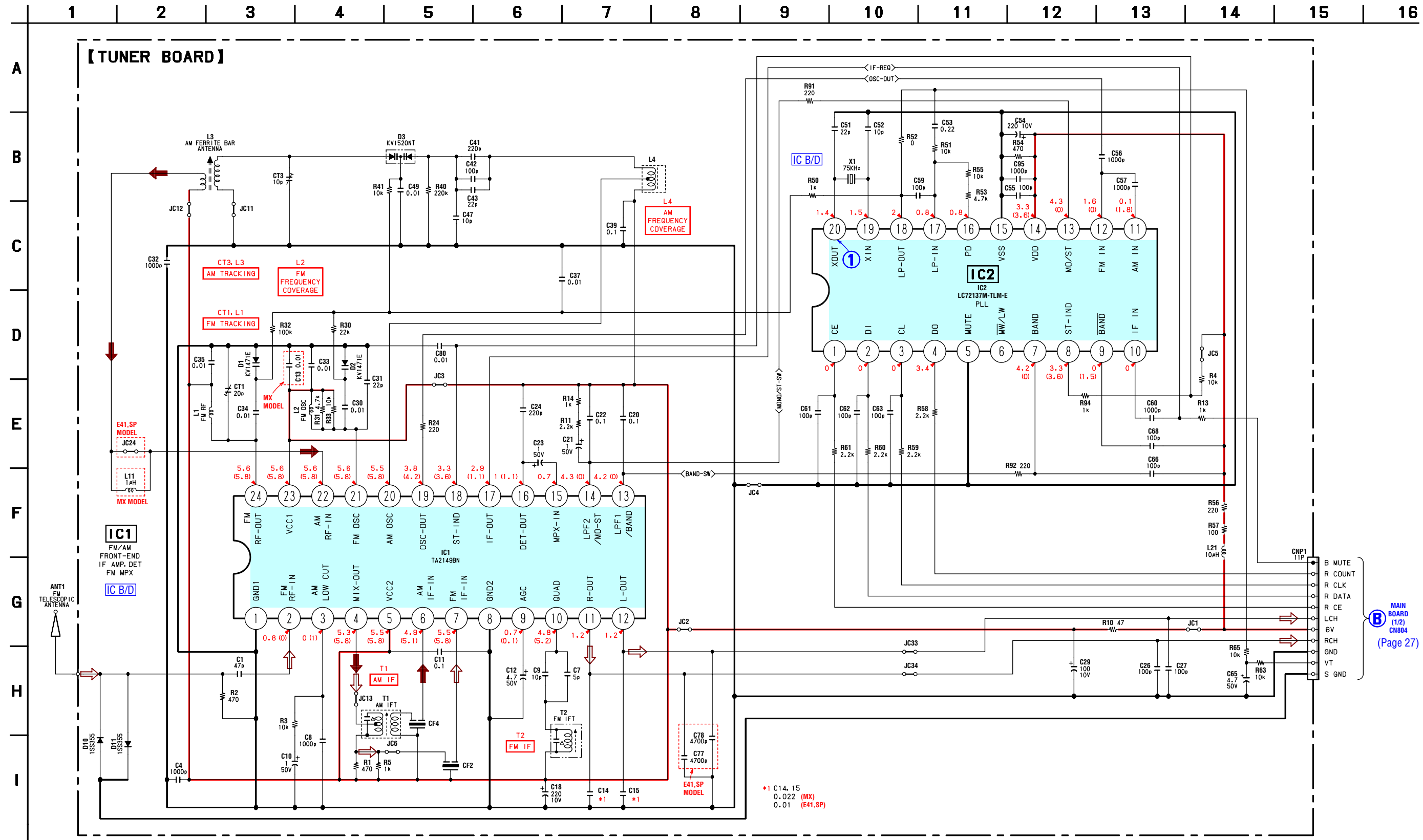


• Semiconductor Location

Ref. No.	Location
D1	C-10
D2	D-8
D3	D-8
D10	B-12
D11	B-12
IC1	E-10
IC2	F-4

6-8. SCHEMATIC DIAGRAM – TUNER Section –

- See page 41 for IC Block Diagrams.
- See page 39 for Waveform.

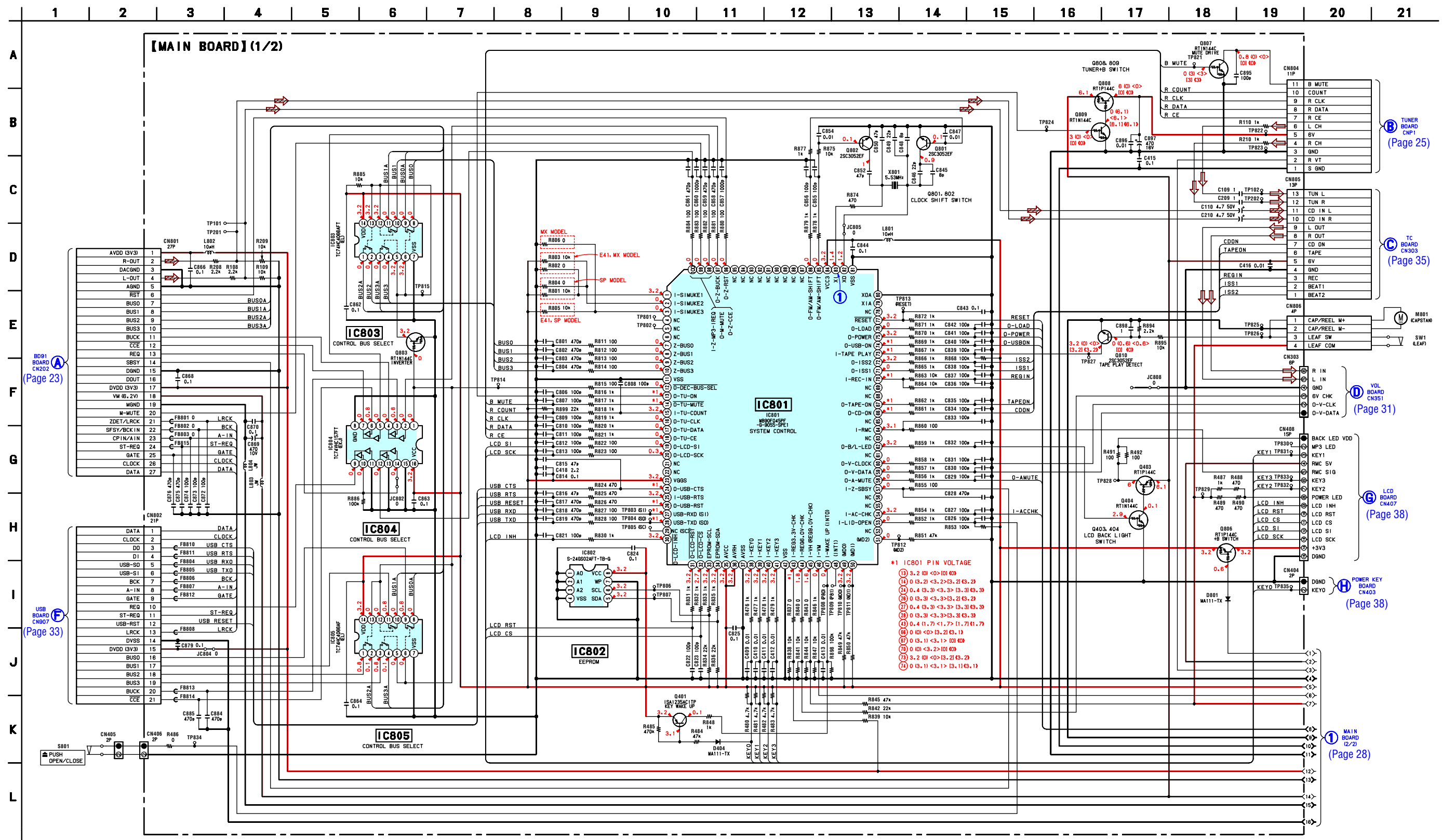




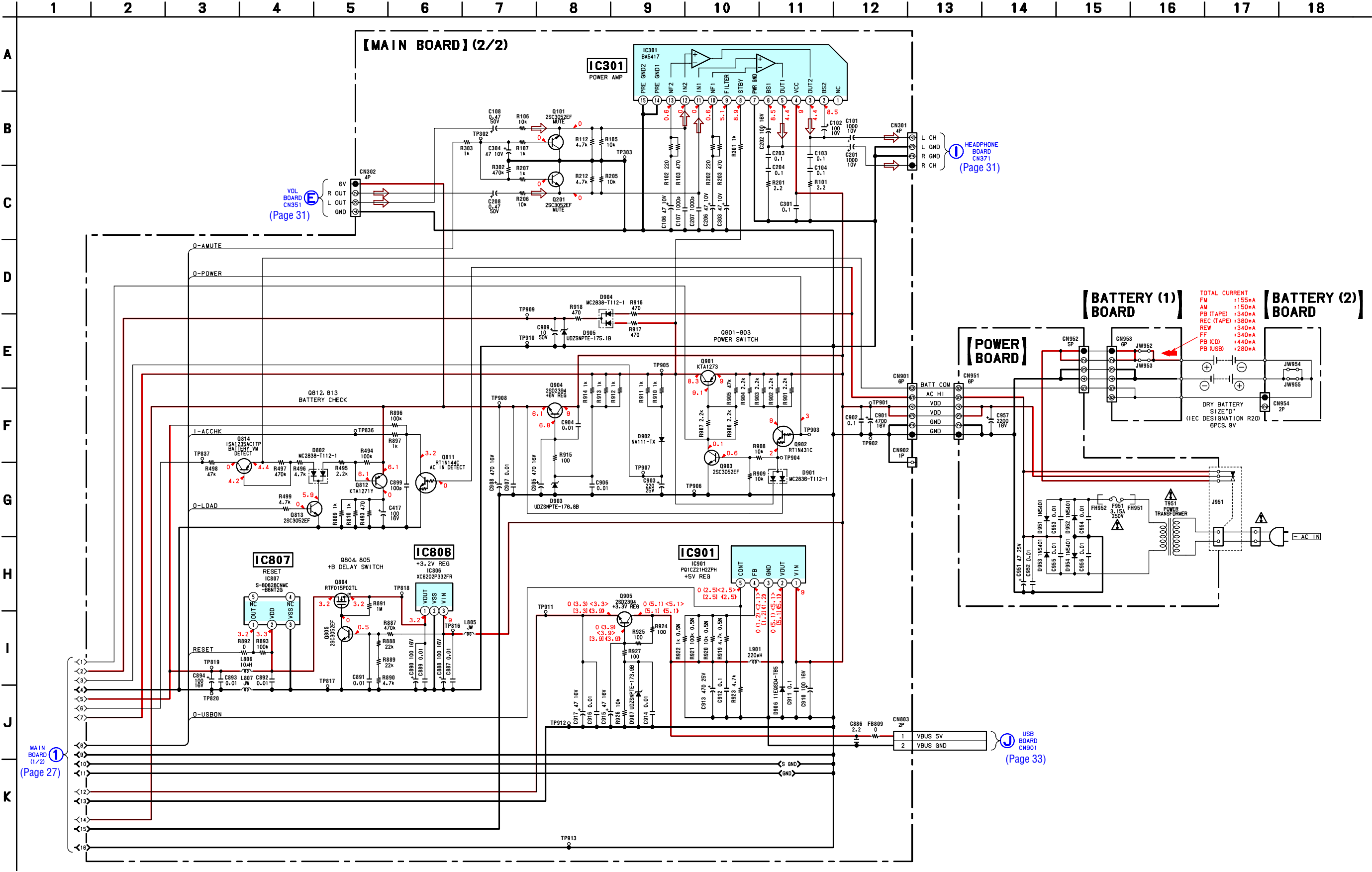
Semiconductor Location	
Ref. No.	Location
D404	C-7
D801	C-7
D802	G-6
D901	C-5
D902	B-5
D903	G-4
D904	C-6
D905	C-5
D906	E-5
D907	I-8
IC301	H-3
IC801	E-8
IC802	C-8
IC803	E-10
IC804	G-11
IC805	E-11
IC806	G-7
IC807	G-8
IC901	E-5
Q101	I-5
Q201	I-4
Q401	C-7
Q403	B-10
Q404	C-10
Q801	G-9
Q802	G-9
Q803	D-11
Q804	G-8
Q805	G-8
Q806	C-8
Q807	C-10
Q808	C-11
Q809	C-11
Q810	C-5
Q811	G-6
Q812	F-6
Q813	G-6
Q814	G-6
Q901	D-5
Q902	C-5
Q903	C-5
Q904	G-5
Q905	I-8

6-10. SCHEMATIC DIAGRAM – MAIN Section (1/2) –

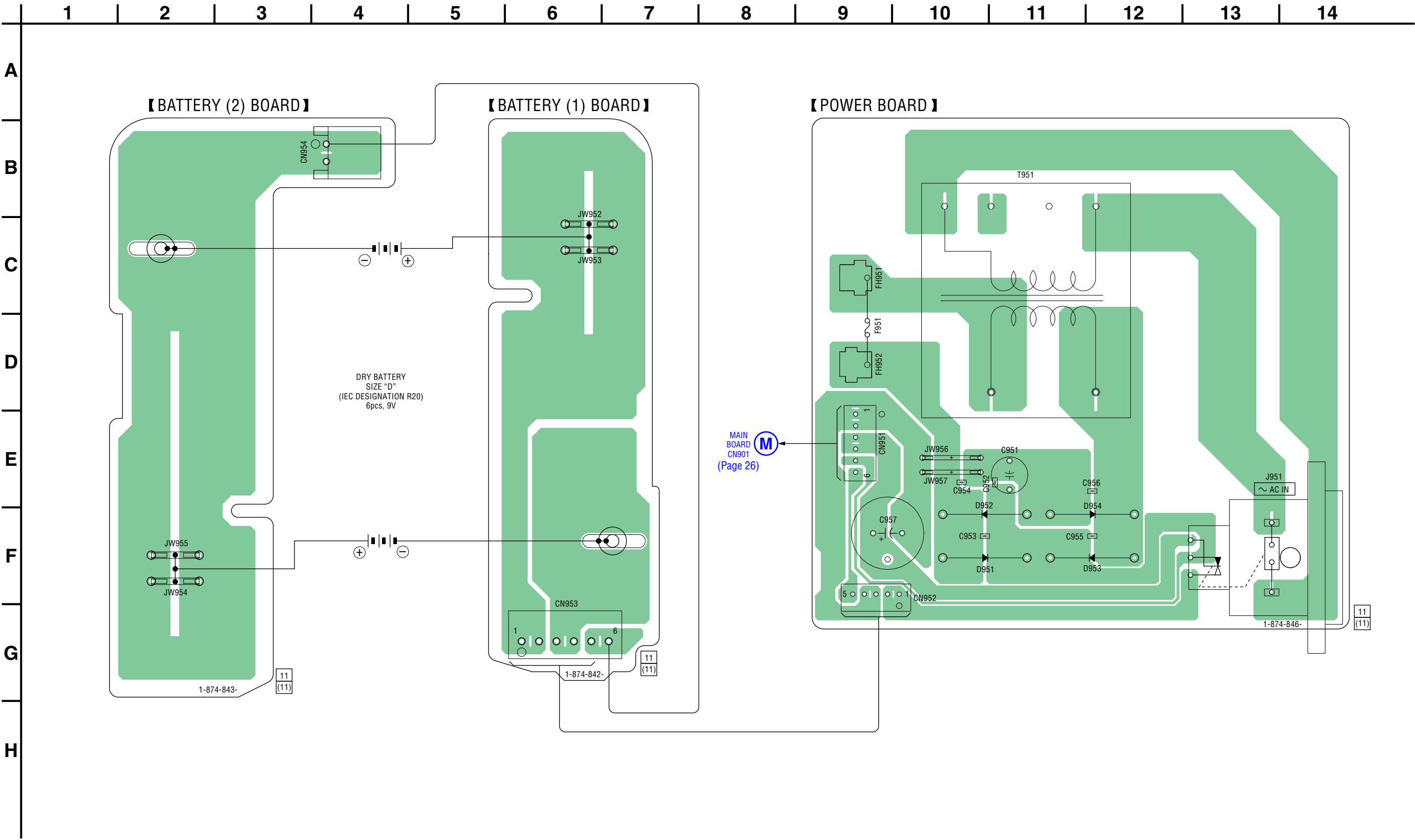
- See page 39 for Waveform.
- See page 46 for IC Pin Description of IC801.



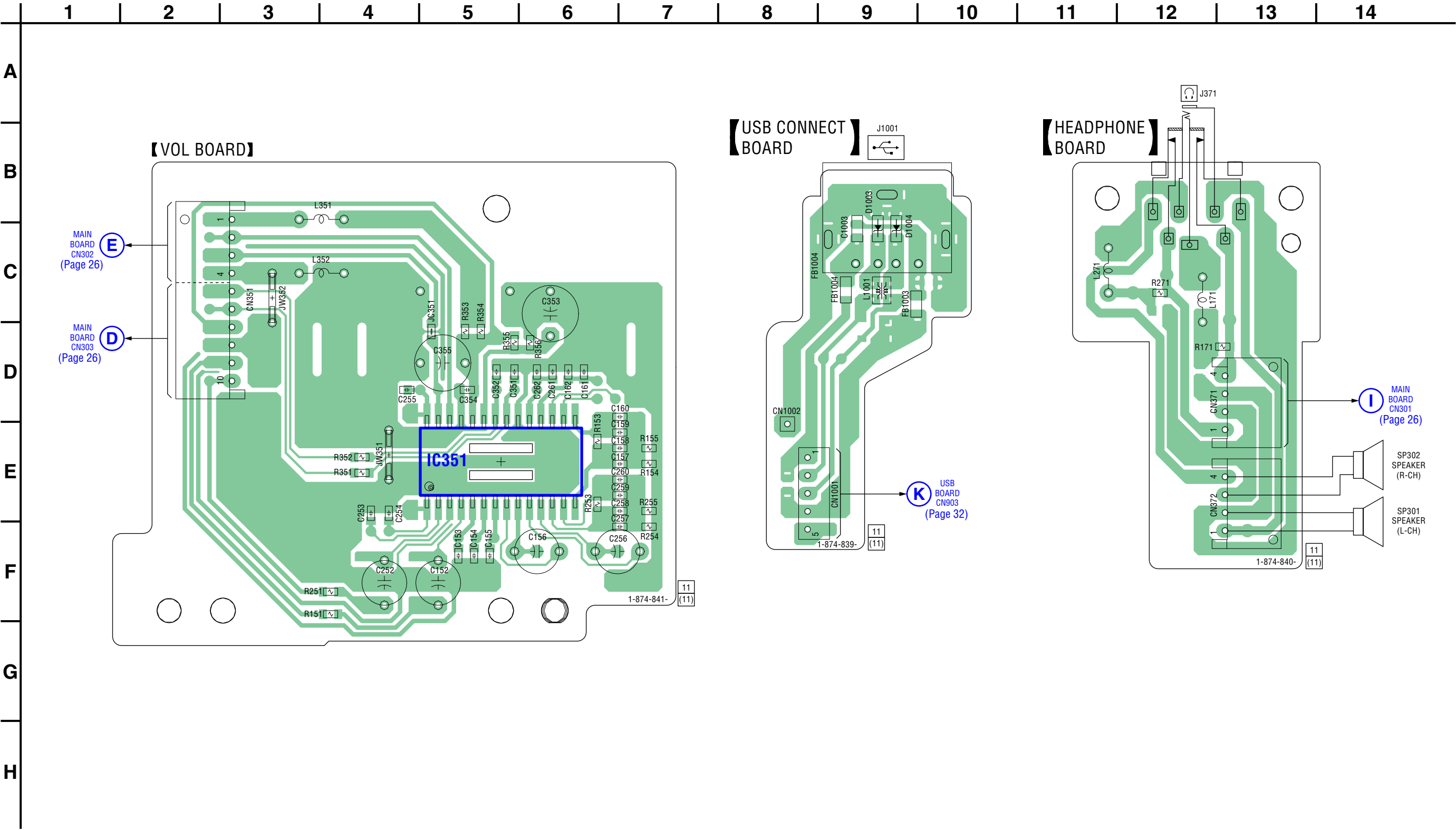
6-11. SCHEMATIC DIAGRAM – MAIN Section (2/2) –



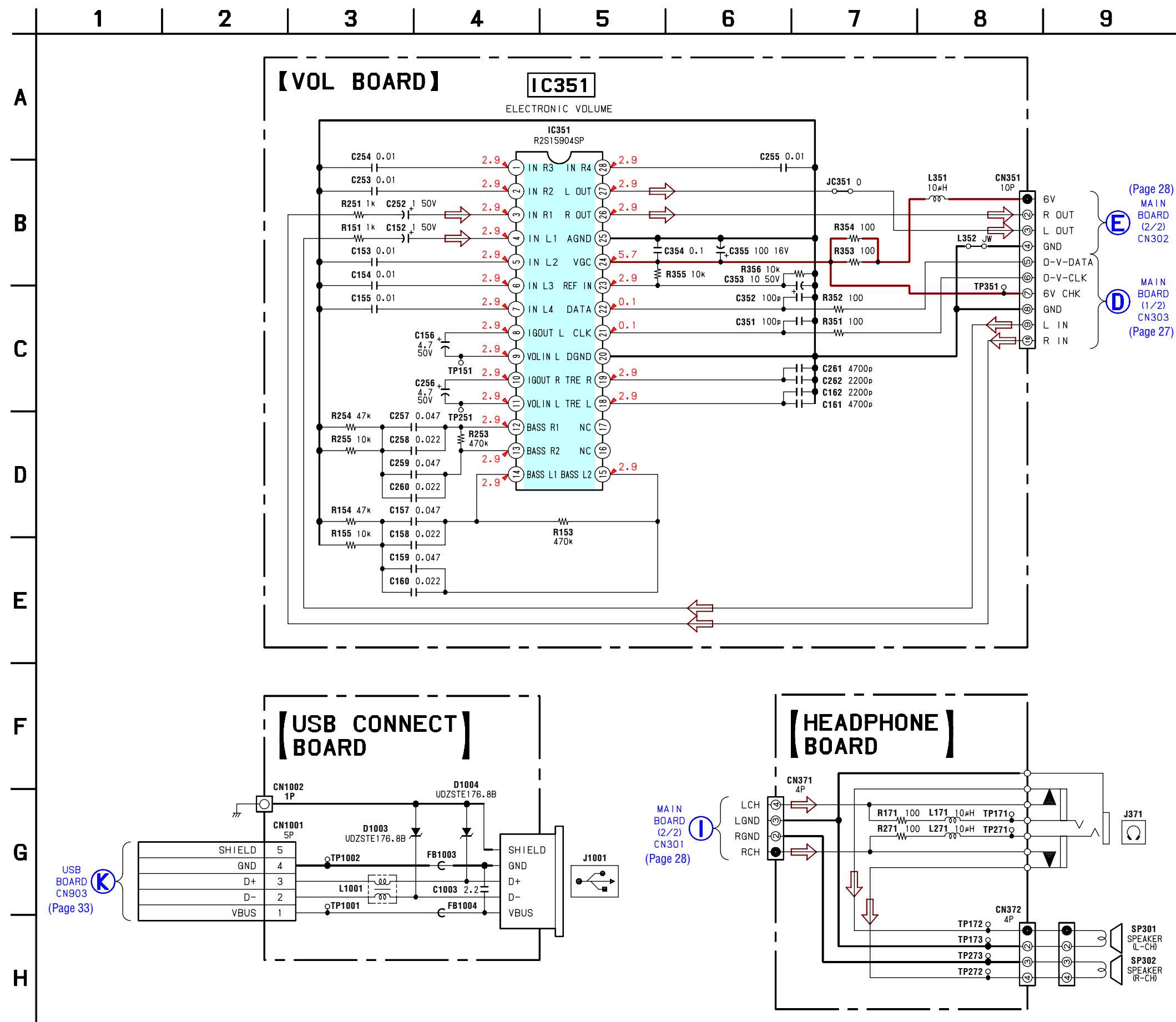
6-12. PRINTED WIRING BOARDS – POWER Section – • See page 21 for Circuit Boards Location. : Uses unleaded solder.



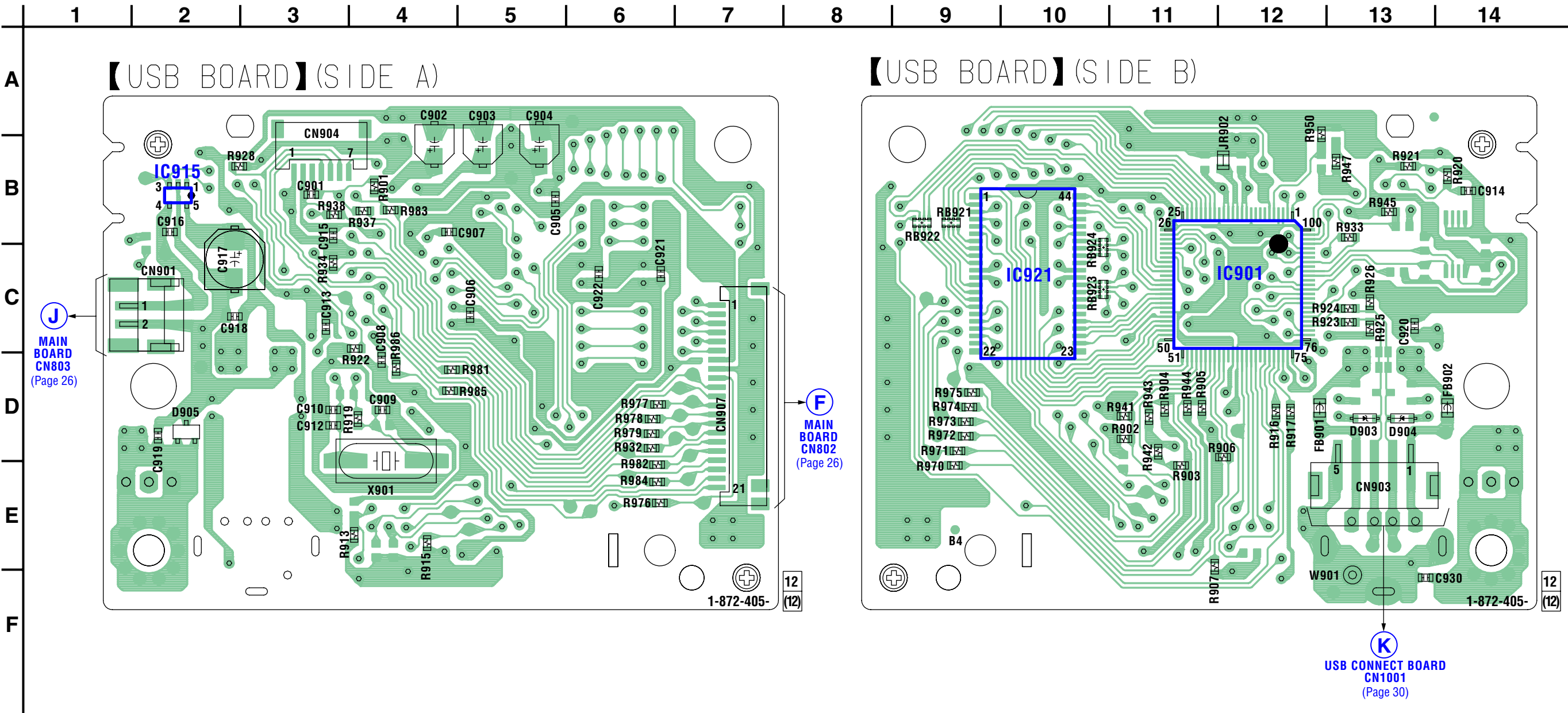
6-13. PRINTED WIRING BOARDS – HEADPHONE/USB CONNECT/VOL Section – • See page 21 for Circuit Boards Location. : Uses unleaded solder.



6-14. SCHEMATIC DIAGRAM – HEADPHONE/USB CONNECT/VOL Section –



6-15. PRINTED WIRING BOARD – USB Section – • See page 21 for Circuit Boards Location. : Uses unleaded solder.

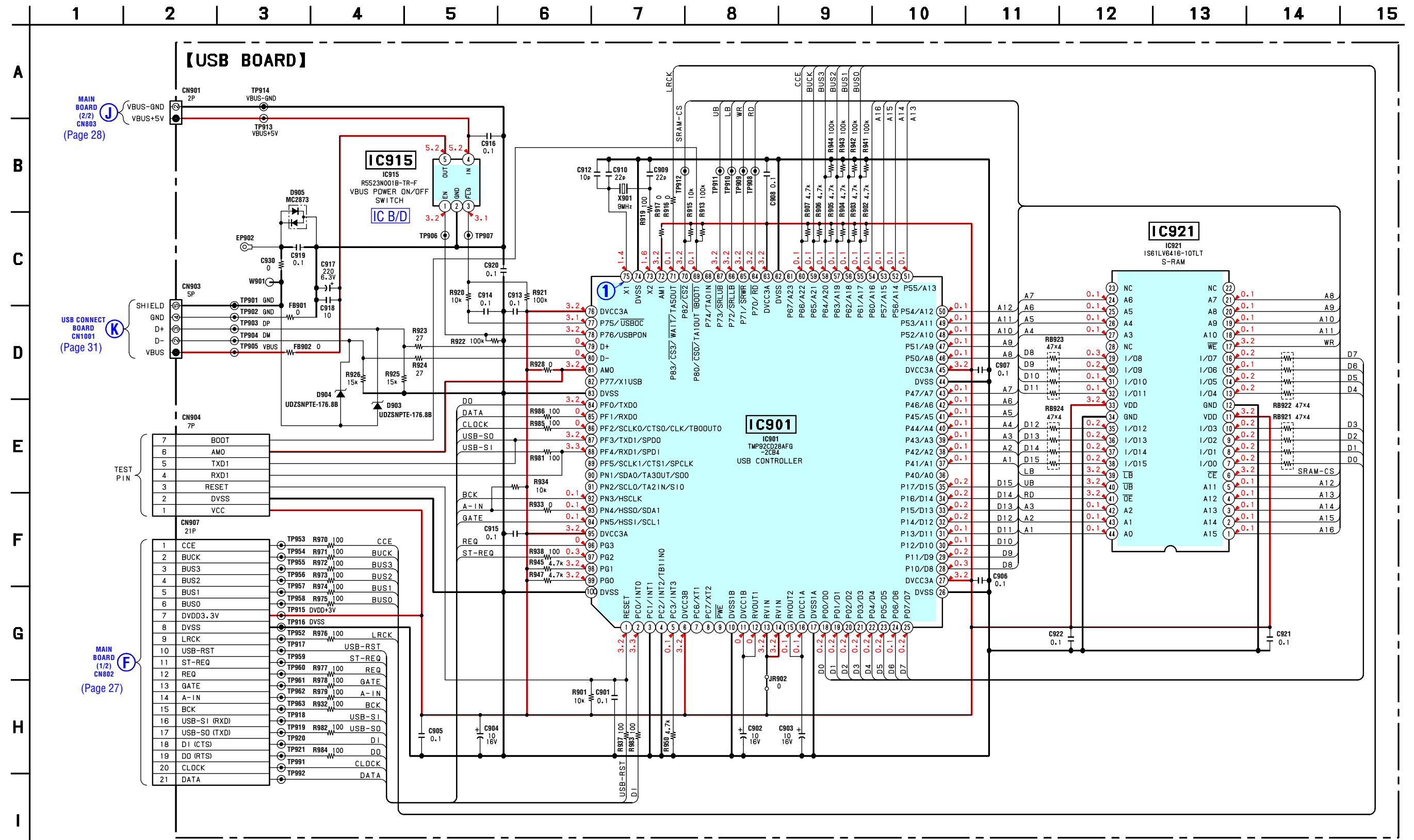


• Semiconductor Location

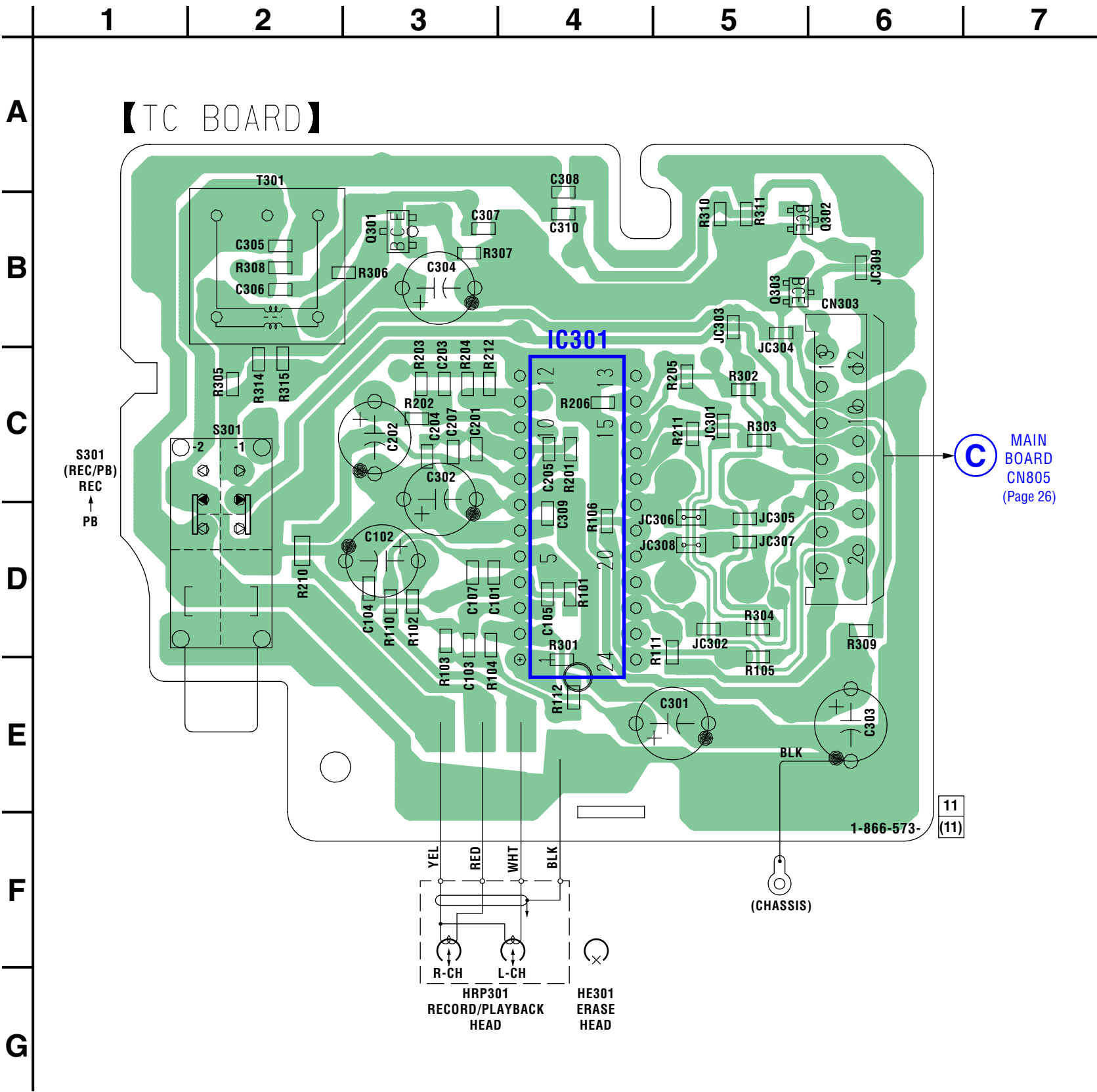
Ref. No.	Location
D903	D-13
D904	D-13
D905	D-2
IC901	C-12
IC915	B-2
IC921	C-10

6-16. SCHEMATIC DIAGRAM – USB Section –

- See page 39 for Waveform.
- See page 42 for IC Block Diagram.
- See page 48 for IC Pin Description of IC901.



6-17. PRINTED WIRING BOARD – TC Section – • See page 21 for Circuit Boards Location.  : Uses unleaded solder.



TC BOARD

IC301 TA2068NG

IC B/D **IC301** REC/PB PRE AMP

HRP301 RECORD/PLAYBACK HEAD

HE301 ERASE HEAD

S301 (REC/PB) REC

Q301 2SC2412K -T-146-R REC BIAS OSC

Q302 DTC114EUA-T106

Q303 DTC114EUA-T106

T301 BIAS OSC

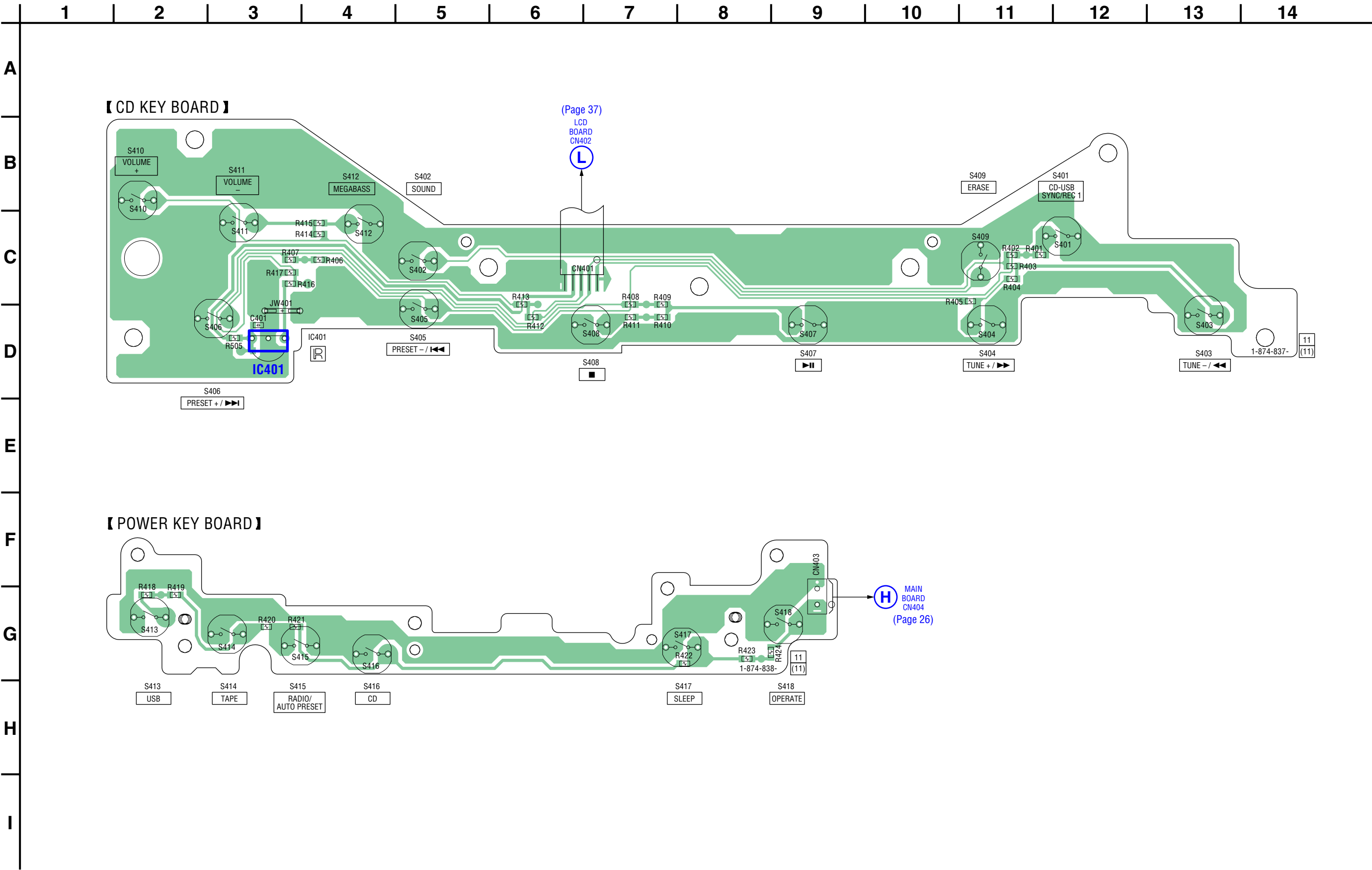
CN303 13P

MAIN BOARD (1/2) CN805 (Page 27)

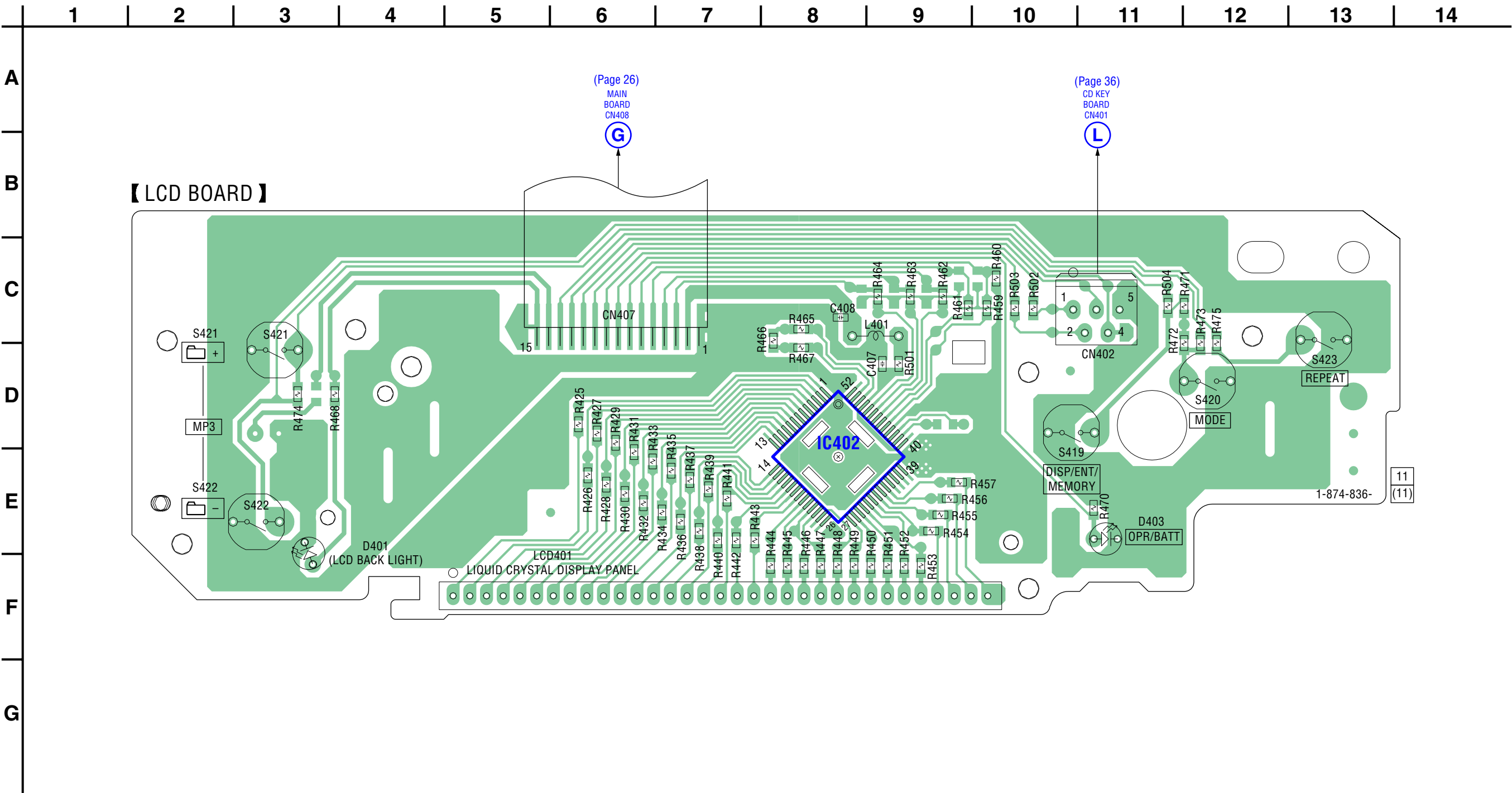
Grid: Columns 1-9, Rows A-F

MAIN BOARD (1/2) CN805 (Page 27)

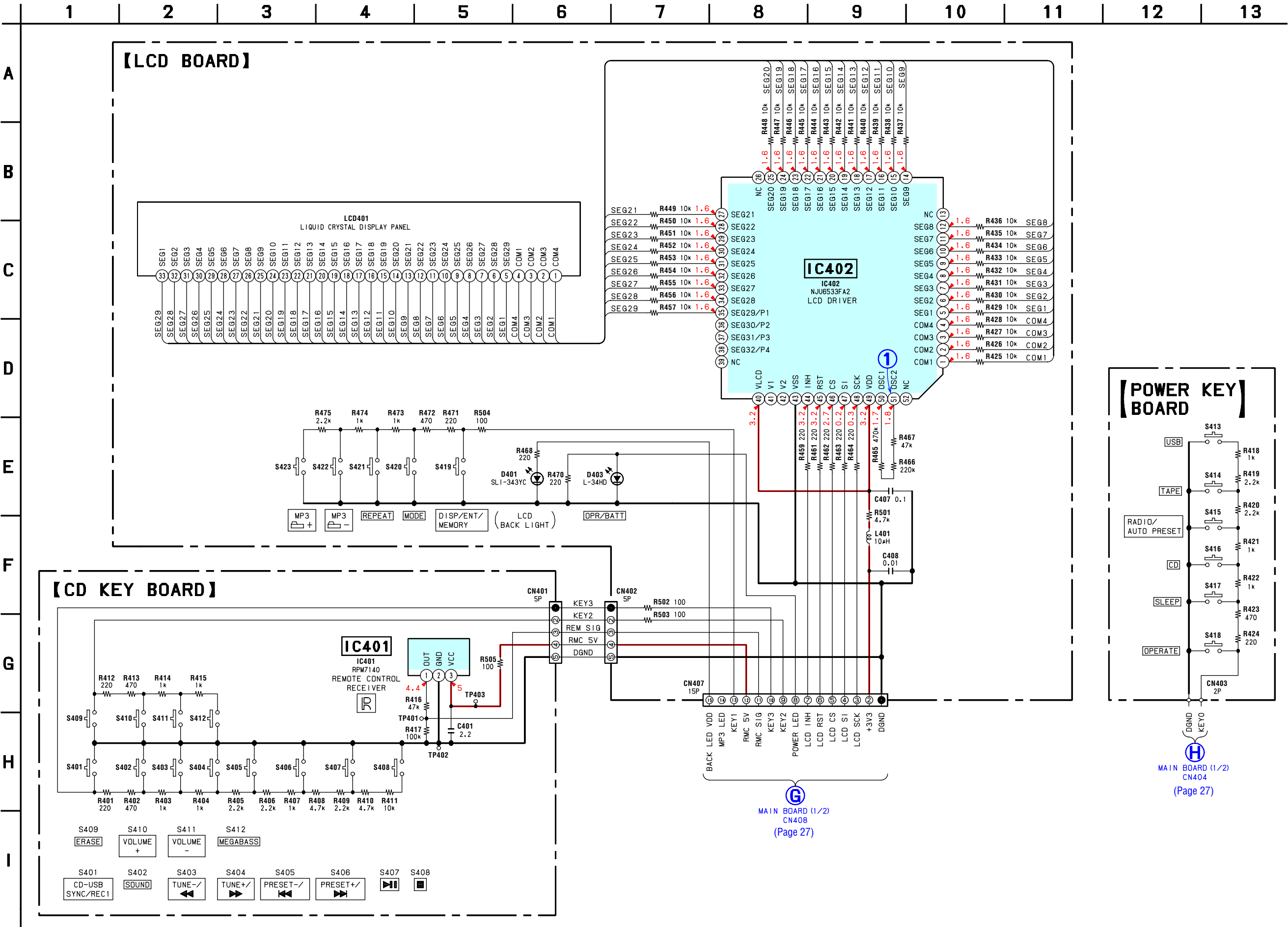
6-19. PRINTED WIRING BOARDS – KEY Section – • See page 21 for Circuit Boards Location.  : Uses unleaded solder.



6-20. PRINTED WIRING BOARD – LCD Section – • See page 21 for Circuit Boards Location. : Uses unleaded solder.



6-21. SCHEMATIC DIAGRAM – CONTROL Section – • See page 39 for Waveform.



• Waveforms

– BD91 Board – (CD PLAY)

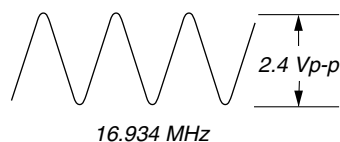
① IC101 ⑤ (FEI)



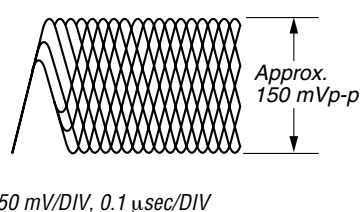
② IC101 ⑥ (TEI)



③ IC101 ②④ (XO)

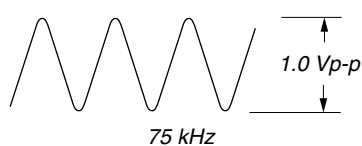


④ IC101 ⑨⑤ (FNI1(A))



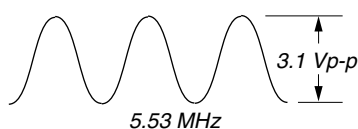
– TUNER Board –

① IC2 ②⑩ (XOUT)



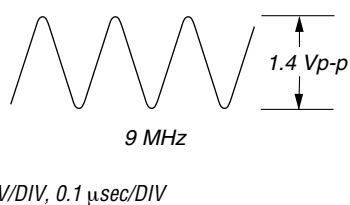
– MAIN Board –

① IC801 ③③ (XI)



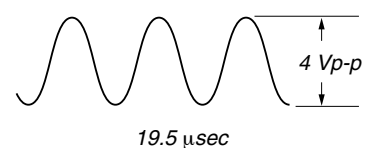
– USB Board –

① IC901 ⑦⑤ (X1)

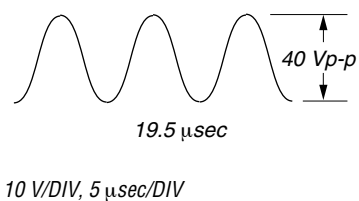


– TC Board –

① Q301 ③ REC

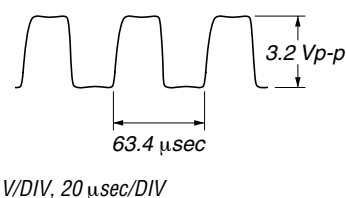


② T301, HRP301 (YEL)



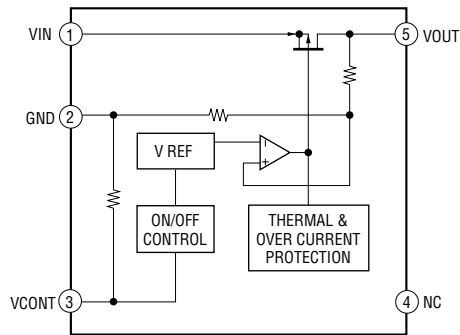
– LCD Board –

① IC402 ⑤① (OSC2)

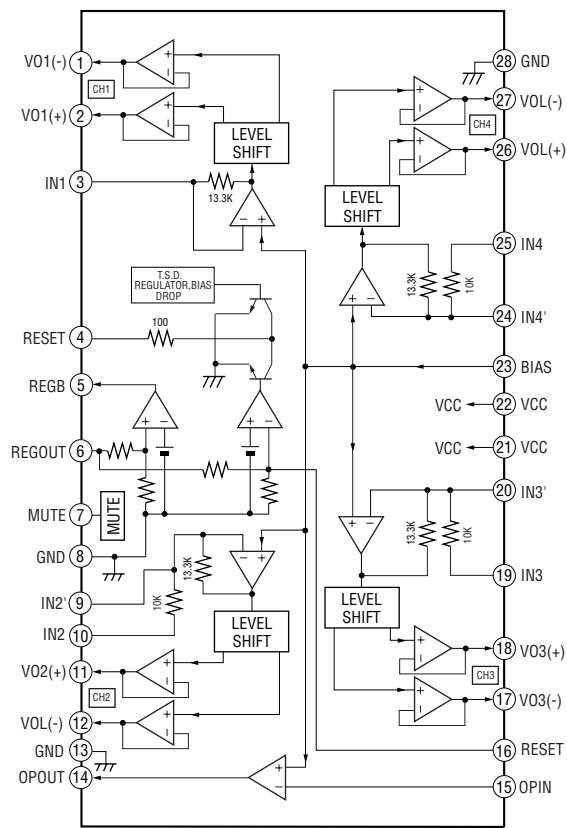


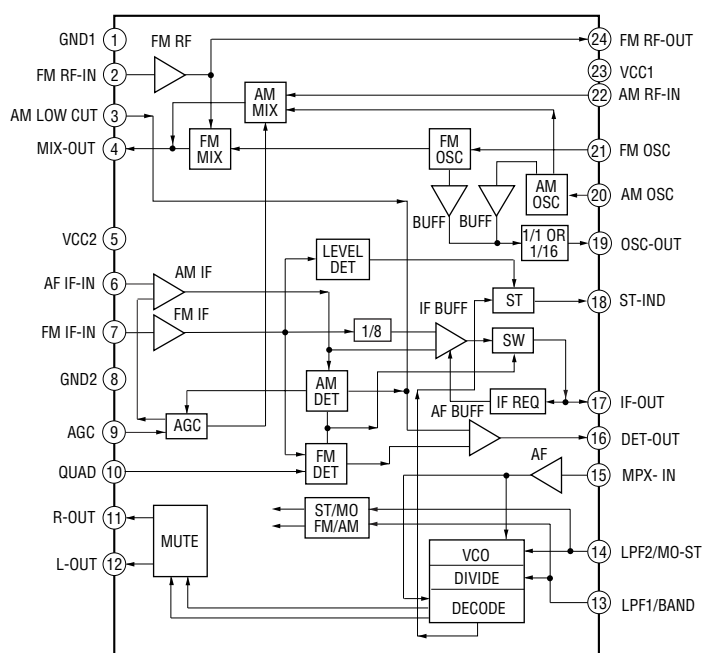
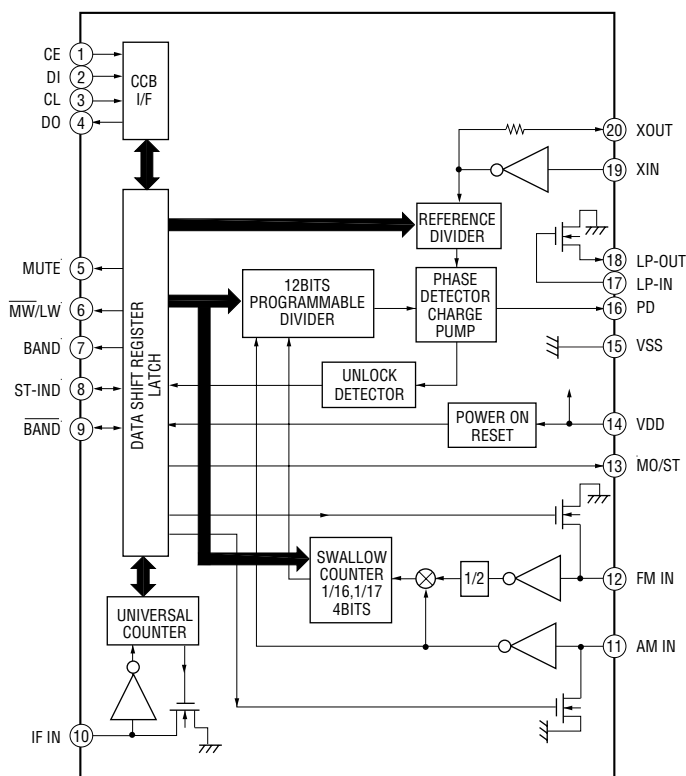
• IC Block Diagrams

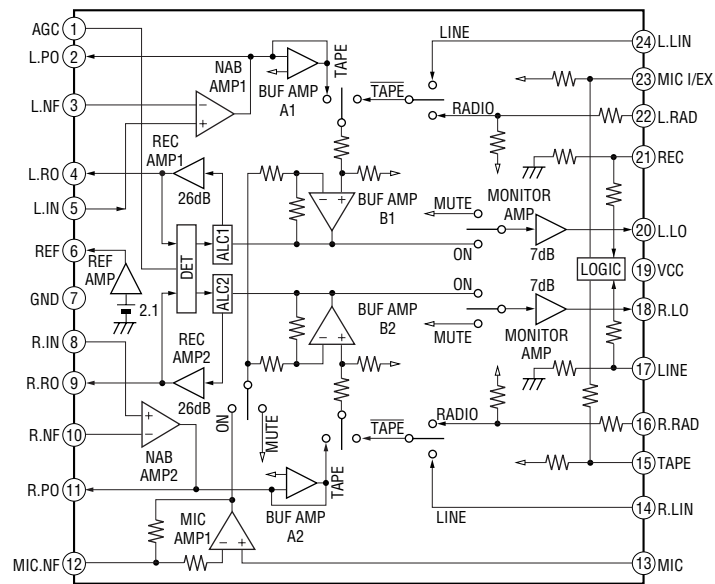
IC201 TK63115SCL-G@GT (BD91 Board)



IC401 BA5826SFP-E2 (BD91 Board)



IC1 TA2149BN (TUNER Board)**IC2 LC72137M-TLM-E (TUNER Board)**



• IC Pin Descriptions

IC101 TC94A70FG-008 (S, D) (RF AMP, FOCUS/TRACKING ERROR AMP, DIGITAL SIGNAL PROCESSOR, DIGITAL SERVO PROCESSOR, DIGITAL FILTER, D/A CONVERTER) (BD91 BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	AVSS3	—	Ground
2	RFZi	I	RF ripple zero crossing signal input
3	RFRP	O	RF ripple signal output
4	SBAD/RFDC	O	Sub beam addition signal or RF peak detection signal output Not used. (Open)
5	FEi	O	Focus error signal output (Check pin)
6	TEi	O	Tracking error signal output
7	TEZi	I	Tracking error zero crossing signal input
8	AVDD3	—	Power supply (+3.3 V)
9	FOo	O	Focus coil drive signal output
10	TRo	O	Tracking coil drive signal output
11	VREF	I	Reference voltage (+1.65 V) input
12	FMO	O	Sled motor drive signal output
13	DMO	O	Spindle motor drive signal output
14	VSSP3	—	Ground
15	VCOi	I	VCO control voltage input
16	VDDP3	—	Power supply (+3.3 V)
17	VDD1	—	Power supply (+1.5 V)
18	VSS1	—	Ground
19	FGiN	I	FG signal input Not used. (Connected to ground.)
20	IO0 (/HSO)	I	Disc inner position detection signal input
21	IO1 (/UHSO)	O	Not used. (Open)
22	XVSS3	—	Ground
23	XI	I	System clock input (16.9344 MHz)
24	XO	O	System clock output (16.9344 MHz)
25	XVDD3	—	Power supply (+3.3 V)
26	DVSS3	—	Ground
27	RO	O	Analog audio (R-ch) signal output
28	DVDD3	—	Power supply (+3.3 V)
29	DVR	O	Reference voltage (+1.65 V) output
30	LO	O	Analog audio (L-ch) signal output
31	DVSS3	—	Ground
32	VDDT3	—	Power supply (+3.3 V)
33	VSS1	—	Ground
34	VDD1	—	Power supply (+1.5 V)
35	VDDM1	—	Power supply (+1.5 V)
36	SRAMSTB	I	S-RAM standby mode control signal input Fixed at “L” in this set.
37	$\overline{\text{RST}}$	I	Reset signal input from the system controller “L”: reset
38, 39	BUS0, BUS1	I/O	Serial data input/output from the system controller or USB controller
40	BUS2 (SO)	I/O	Serial data input/output from the system controller or USB controller
41	BUS3 (SI)	I/O	Serial data input/output from the system controller or USB controller
42	BUCK (CLK)	I	Serial data transfer clock signal input from the system controller or USB controller
43	$\overline{\text{CCE}}$	I	Chip enable signal input from the system controller or USB controller
44	TEST	I	Setting pin for test mode Normally fixed at “L”
45	IRQ	I	Interrupt request signal input

Pin No.	Pin Name	I/O	Pin Description
46	AoUT3 (PO4)	O	Request signal output to the USB controller Not used. (Open)
47	AoUT2 (PO5)	O	Audio data output to the USB controller
48	PIO0	O	Request signal output to the system controller or USB controller
49	PIO1	O	ST REQ signal output
50	PIO2	O	Not used. (Open)
51	PIO3	I	Gate signal input from the USB controller
52	VSS1	—	Ground
53	VDDT3	—	Power supply (+3.3 V)
54	SBSY	O	Subcode block sync signal output to the system controller
55	SBOK/FOK	O	Not used. (Open)
56	IPF	O	Not used. (Open)
57	SFSY/LOCK	O	Not used. (Open)
58	ZDET	O	Zero detection signal output Not used. (Open)
59	GPIN	I	Not used. (Connected to ground.)
60	MS	I	Microcomputer interface mode selection signal input Fixed at “H” in this set.
61	DOUT (PO6)	O	Digital audio data output Not used in this set. (Open)
62	AOUT1 (PO7)	O	Audio data output Not used in this set. (Open)
63	BCK (PO8)	O	Bit clock signal output to the USB controller
64	LRCK (PO9)	O	L/R sampling clock signal output
65	AIN (PI4)	I	Digital audio data input from the USB controller
66	BCKi (PI5)	I	Bit clock signal input from the USB controller
67	LRCKi (PI6)	I	L/R sampling clock signal input from the USB controller
68	VDD1	—	Power supply (+1.5 V)
69	VSS	—	Ground
70	AWRC	—	Not used. (Open)
71	PVDD3	—	Power supply (+3.3 V)
72	PDO	O	Phase error margin signal between EFM signal and PLCK signal output
73	TMAXS	O	TMAX detection signal output Not used. (Open)
74	TMAX	O	TMAX detection signal output
75	LPFN	I	Inverted signal input from the operation amplifier for PLL loop filter
76	LPFo	O	Signal output from the operation amplifier for PLL loop filter
77	PVREF	I	Reference voltage (+1.65 V) input
78	VCOF	O	VCO filter output
79	PVSS3	—	Ground
80	SLCo	O	EFM slice level output
81	RFi	I	RF signal input
82	RFRPi	I	RF ripple signal input
83	RFEQo	O	EFM slice level output
84	VRo	O	Reference voltage (+1.65 V) output
85	RESiN	O	External resistor connection pin
86	VMDiR	O	Reference voltage (+1.65 V) output for automatic power control circuit
87	TESTR	O	Low-pass filter terminal for RFEQO offset correction
88	AGCi	I	RF signal amplitude adjustment amplification input
89	RFo	O	RF signal generation amplification output
90	RVDD3	—	Power supply (+3.3 V)
91	LDo	O	Laser diode on/off control signal output to the automatic power control circuit “H”: laser diode on

Pin No.	Pin Name	I/O	Pin Description
92	MDi	I	Light amount monitor input from the laser diode of optical pick-up block
93	RVSS3	—	Ground
94	FNi2 (C)	I	Main beam (C) input from the optical pick-up block
95	FNi1 (A)	I	Main beam (A) input from the optical pick-up block
96	FPI2 (D)	I	Main beam (D) input from the optical pick-up block
97	FPI1 (B)	I	Main beam (B) input from the optical pick-up block
98	TPi (F)	I	Sub beam (F) input from the optical pick-up block
99	TNPC	O	External capacitor connection pin
100	TNi (E)	I	Sub beam (E) input from the optical pick-up block

IC801 MB90F045PF-G-9055-SPE1 (SYSTEM CONTROL) (MAIN BOARD (1/2))

Pin No.	Pin Name	I/O	Pin Description
1	I-SIMUKE1	I	Destination setting pin
2	I-SIMUKE2	I	Destination setting pin
3	I-SIMUKE3	I	Destination setting pin
4 to 6	NC	—	Not used. (Open)
7	Z-BUS0	I/O	Serial bus data bit 0 input/output
8	Z-BUS1	I/O	Serial bus data bit 1 input/output
9	Z-BUS2	I/O	Serial bus data bit 2 input/output
10	Z-BUS3	I/O	Serial bus data bit 3 input/output
11	VSS	—	Ground
12	$\overline{\text{O-DEC-BUS-SEL}}$	O	Bus control switch signal output "H":USB, "L":CD
13	O-TU-ON	O	Tuner on/off signal output
14	$\overline{\text{O-TU-MUTE}}$	O	Tuner mute control signal output
15	I-TU-COUNT	I	Tuner PLL IF count input
16	O-TU-CLK	O	Tuner PLL clock signal output
17	O-TU-DATA	O	Tuner PLL data signal output
18	O-TU-CE	O	Tuner PLL chip enable signal output
19	O-LCD-SI	O	LCD driver control serial data output
20	O-LCD-SCK	O	LCD driver control serial clock output
21	NC	—	Not used. (Open)
22	NC	—	Not used. (Open)
23	VGGS	—	Power supply (+3.3V)
24	O-USB-CTS	I	Clear to send signal input from USB controller
25	I-USB-RTS	O	Ready to send signal output to USB controller
26	O-USB-RST	O	Reset signal output to the USB controller
27	USB-RXD(SI)	I	Serial data input from the USB controller
28	USB-TXD(SO)	O	Serial data output to the USB controller
29	NC(SC)	—	Not used. (Open)
30	$\overline{\text{O-LCD-INH}}$	O	LCD drive inhibit signal output
31	$\overline{\text{O-LCD-RST}}$	O	LCD drive reset signal output
32	$\overline{\text{O-LCD-CS}}$	O	LCD drive chip select signal output
33	EPROM-SCL	O	EPROM serial clock signal output
34	EPROM-SDA	I/O	EPROM serial data signal input/output
35	AVCC	—	A/D converter power supply (+3.3V)
36	AVRH	—	A/D converter external reference voltage supply
37	AVSS	—	A/D converter Ground
38	I-KEY0	I	Key signal input 0
39	I-KEY1	I	Key signal input 1
40	I-KEY2	I	Key signal input 2
41	I-KEY3	I	Key signal input 3
42	VSS	—	Ground
43	I-REG3.3V-CHK	I	REG 3.3V on/off check input
44	I-REG6.0V-CHK	I	Electric volume power supply voltage check input
45	I-VH(REG9.0V-CHK)	I	Battery voltage check input
46	I-VM	I	Battery VM voltage check input
47	I-WAKE UP(INT0)	I	Key wake up trigger signal input
48	(INT1)	—	Not used. (Open)
49	(MD0)	I	Operation mode setting pin (Pull up)
50	(MD1)	I	Operation mode setting pin (Pull up)
51	(MD2)	I	Operation mode setting pin (Pull down)

Pin No.	Pin Name	I/O	Pin Description
52	NC	—	Not used. (Open)
53	I-LID-OPEN	I	CD door detect signal input
54	I-AC-CHK	I	AC IN power supply check signal input
55	NC	—	Not used. (Open)
56	NC	—	Not used. (Open)
57	I-Z-SBSY	I	CD sub code sync signal input
58	O-A-MUTE	O	Audio mute control signal output
59	O-V-DATA	O	Electric volume serial data output
60	O-V-CLOCK	O	Electric volume serial clock signal output
61	NC	—	Not used. (Open)
62	O-B/L-LED	O	LCD backlight control signal output
63	NC	—	Not used. (Open)
64	I-RMC	I	Remote control signal input
65	NC	—	Not used. (Open)
66	O-CD-ON	O	CD power control signal output
67	O-TAPE-ON	O	Tape power control signal output
68	NC	—	Not used. (Open)
69	NC	—	Not used. (Open)
70	I-REC-IN	I	Tape recording mode detect signal input “H”:Tape REC
71	O-ISS1	O	REC bias frequency control signal output
72	O-ISS2	O	REC bias frequency control signal output
73	I-TAPE PLAY	I	Test mode detect signal input
74	O-USB-ON	O	USB power control signal output
75	O-POWER	O	Main power control signal output
76	O-LOAD	O	Dummy load control signal output for battery check
77	RESET	I	system reset signal input
78	NC	—	Not used. (Open)
79	XIA	O	Not used. (Open)
80	XOA	I	Not used. (connected to ground)
81	VSS	—	Ground
82	XO	I	Main clock signal input (5.53kHz)
83	XI	O	Main clock signal output (5.53kHz)
84	VCC3	—	Power supply (+3.3 V)
85	O-FM/AM-SHIFT	O	Radio main clock shift control signal output
86	O-FM/AM-SHIFT	O	Radio main clock shift control signal output
87 to 95	NC	—	Not used. (Open)
96	O-Z-RST	O	Reset control signal output “L”: Reset
97	O-Z-BUCK	O	Bus clock signal output
98	O-Z-CCE	O	Chip select signal output
99	O-M-MUTE	O	Motor drive muting signal output
100	I-Z-MP3-IREQ	I	MP3 decoder request signal input

IC901 TMP92CD28AFG-2CB4 (USB CONTROLLER) (USB BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	RESET	I	Reset signal input from the system controller "L": reset
2	PC0/INT0	I	Ready to send signal input from the system controller
3	PC1/INT1	O	Not used. Connected to ground.
4	PC2/INT2/TB1IN0	O	Not used. Connected to ground.
5	PC3/INT3	I	Function selection signal input Fixed at "L" in this set.
6	DVCC3B	—	Power supply (+3.3 V)
7	PC6/XT1	O	Not used. (Open)
8	PC7/XT2	O	Not used. (Open)
9	PWE	O	Not used. (Open)
10	DVSS1B	—	Ground
11	DVCC1B	—	Reference voltage input
12	RVOUT1	O	Reference voltage output
13, 14	RVIN	I	Reference voltage (+3.3 V) input
15	RVOUT2	O	Reference voltage output
16	DVCC1A	—	Reference voltage input
17	DVSS1A	—	Ground
18 to 25	P00/D0 to P07/D7	I/O	Two-way data bus with the S-RAM
26	DVSS	—	Ground
27	DVCC3A	—	Power supply (+3.3 V)
28 to 35	P10/D8 to P17/D15	I/O	Two-way data bus with the S-RAM
36	P40/A0	O	Address signal output Not used in this set. (Open)
37 to 43	P41/A1 to P47/A7	O	Address signal output to the S-RAM
44	DVSS	—	Ground
45	DVCC3A	—	Power supply (+3.3 V)
46 to 54	P50/A8 to P60/A16	O	Address signal output to the S-RAM
55 to 58	P61/A17 to P64/A20	O	Serial data output to the CD-MP3 processor
59	P65/A21	O	Serial data transfer clock signal output to the CD-MP3 processor
60	P66/A22	O	Chip enable signal output to the CD-MP3 processor
61	P67/A23	O	Not used. (Open)
62	DVSS	—	Ground
63	DVCC3A	—	Power supply (+3.3 V)
64	P70/RD	O	Output enable signal output to the S-RAM
65	P71/SRWR	O	Write enable signal output to the S-RAM
66	P72/SRLLB	O	Lower-byte control signal output to the S-RAM
67	P73/SRLUB	O	Upper-byte control signal output to the S-RAM
68	P74/TA0IN	O	Not used. (Open)
69	P80/CS0/TA1OUT (BOOT)	I	Boot mode selection signal input "L": boot mode
70	P82/CS2	I	Chip select signal output to the S-RAM
71	P83/CS3/WAIT/TA5OUT	O	L/R sampling clock signal output to the CD-MP3 processor
72	AM1	I	Function mode selection signal input Fixed at "H" in this set.
73	X2	O	System clock output (9 MHz)
74	DVSS	—	Ground
75	X1	I	System clock input (9 MHz)
76	DVCC3A	—	Power supply (+3.3 V)
77	P75/USBOC	I	Over current detection signal input
78	P76/USBPON	O	USB VBUS power on/off control signal output "H": power on
79	D+	I/O	Two-way data (positive) bus with the USB connector
80	D-	I/O	Two-way data (negative) bus with the USB connector
81	AM0	I	Function mode selection signal input Fixed at "H" in this set.

Pin No.	Pin Name	I/O	Pin Description
82	P77/X1USB	O	Not used. (Open)
83	DVSS	—	Ground
84	PF0/TXD0	O	Clear to send signal output to the system controller
85	PF1/RXD0	O	Serial data signal output
86	PF2/SCLK0/CTS0/ CLK/TB0OUT0	O	Serial data transfer clock signal output
87	PF3/TXD1/SPDO	O	Serial data signal output to the system controller
88	PF4/RXD1/SPDI	I	Serial data signal input from the system controller
89	PF5/SCLK1/CTS1/SPCLK	O	Not used in this set. (Open)
90	PN1/SDA0/TA3OUT/SO0	I/O	Two-way EEPROM IIC data bus Not used in this set.
91	PN2/SCL0/TA2IN/SI0	I/O	Two-way EEPROM IIC clock bus Not used in this set.
92	PN3/HCLK	O	Bit clock signal output to the CD-MP3 processor
93	PN4/HSSO/SDA1	O	Audio data output to the CD-MP3 processor
94	PN5/HSSI/SCL1	O	Gate signal output to the CD-MP3 processor
95	DVCC3A	—	Power supply (+3.3 V)
96	PG3	I	Request signal input from the CD-MP3 processor
97	PG2	I	Request signal input from the CD-MP3 processor
98, 99	PG1, PG0	I	Function selection signal input Fixed at “H” in this set.
100	DVSS	—	Ground

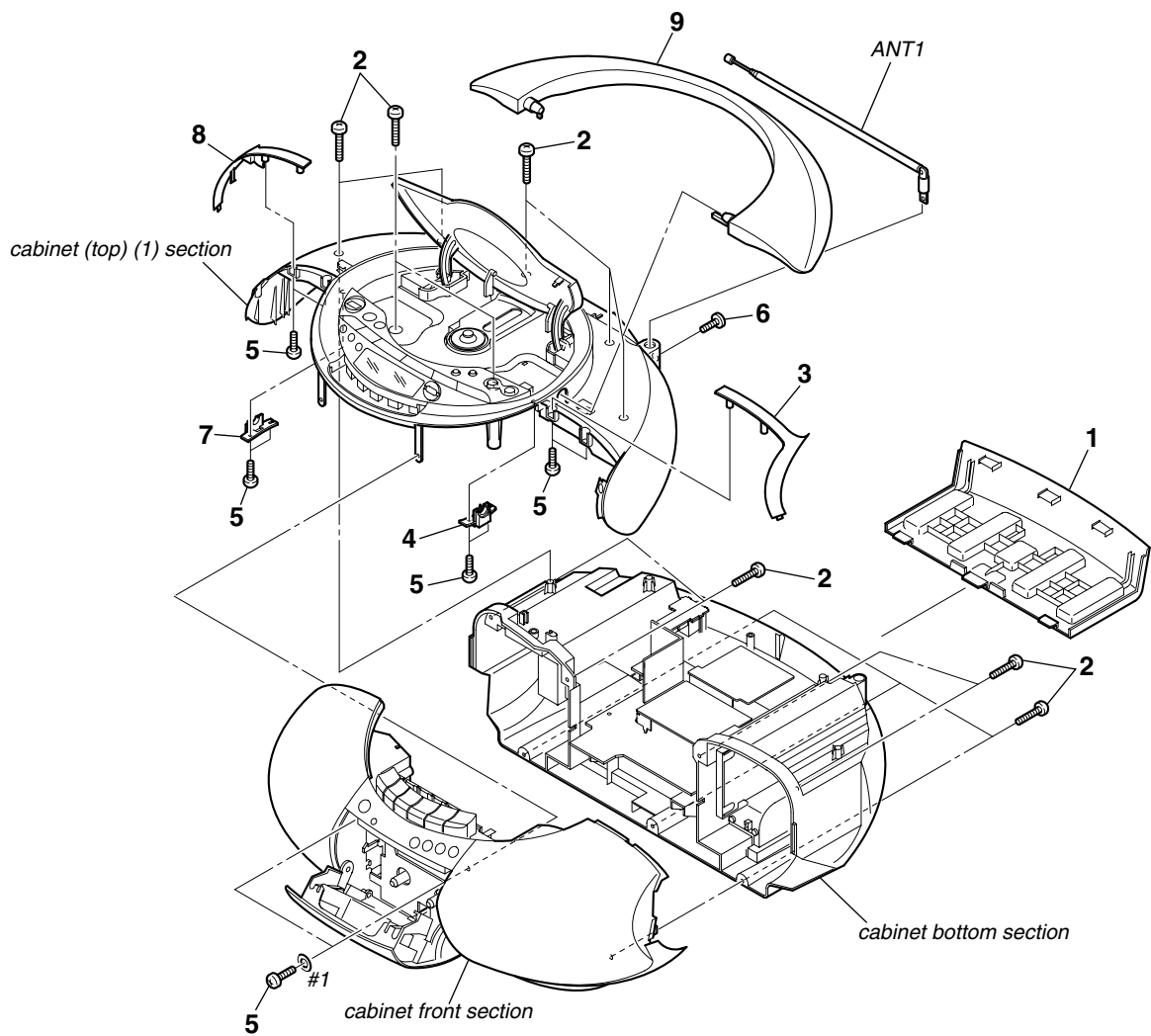
SECTION 7
EXPLODED VIEWS

- NOTE:**
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - The mechanical parts with no reference number in the exploded views are not supplied.
 - Accessories are given in the last of electrical parts list.

- Color Indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE) . . . (RED)
Parts of Color Cabinet's Color
- Abbreviation
E41 : AC 230V area in E model
MX : Mexican model
SP : Singapore model

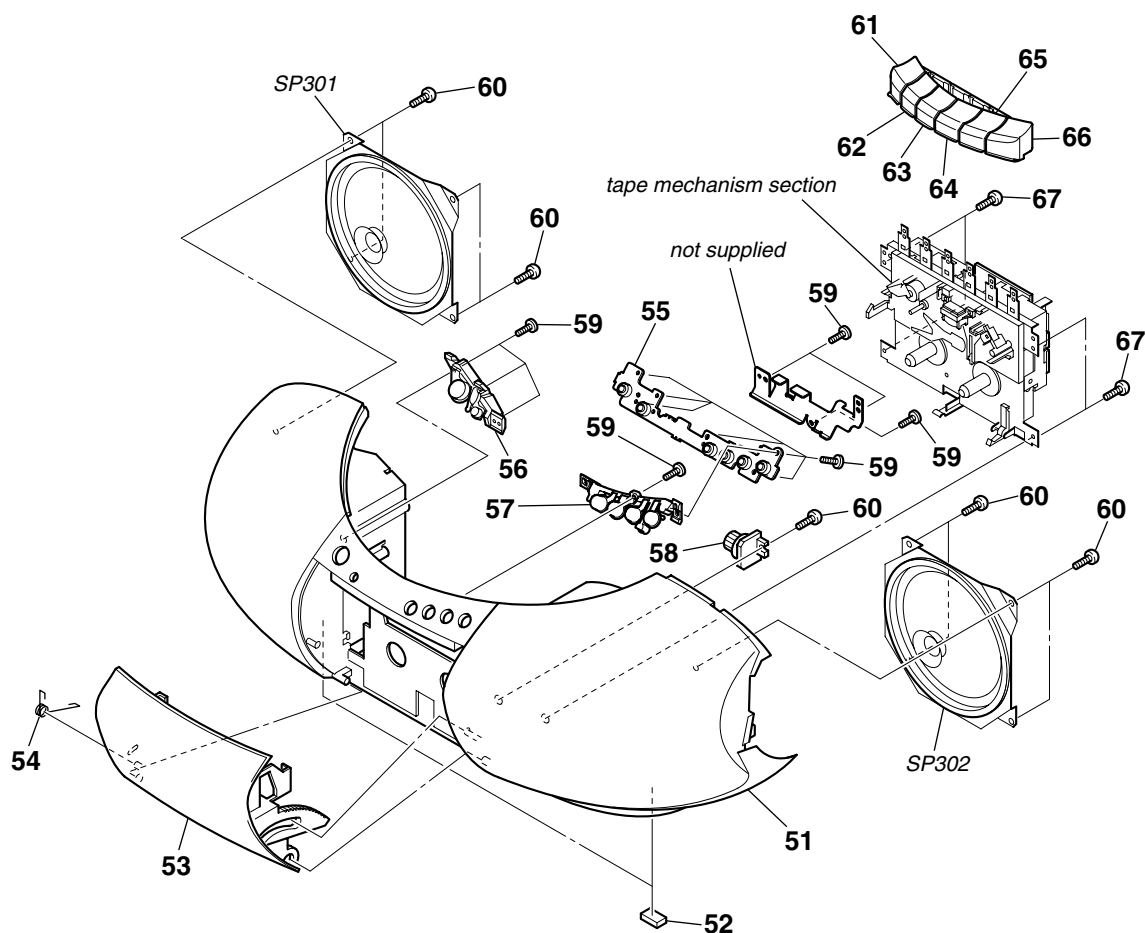
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

7-1. CABINET SECTION



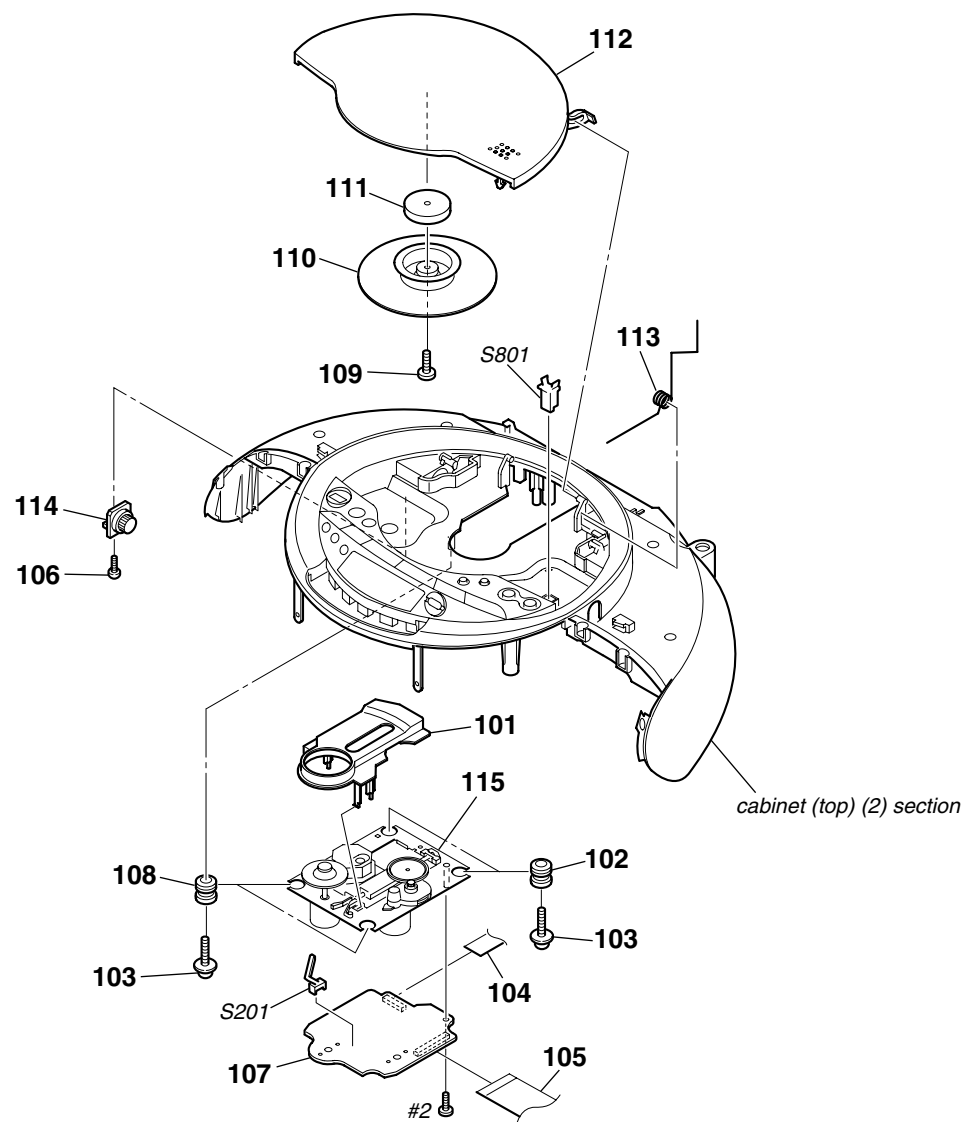
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-216-200-01	LID, BATTERY CASE		7	2-547-158-21	HOLDER (HANDLE) (L)	
2	3-254-140-11	SCREW (B2.6), (+) BV TAPPING		8	3-216-213-01	COVER (HANDLE L)	
3	3-216-214-01	COVER (HANDLE R)		9	3-216-197-01	HANDLE	
4	2-547-159-21	HOLDER (HANDLE) (R)		ANT1	1-754-376-11	ANTENNA, TELESCOPIC (FM)	
5	3-254-151-01	SCREW (B2.6), (+) P TAPPING		#1	7-688-002-11	W 2.6, MIDDLE	
6	3-252-833-01	SCREW (M3), (+) P					

7-2. CABINET (FRONT) SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-2179-687-1	CABINET (FRONT) SUB ASSY		61	3-216-207-01	BUTTON (PAUSE)	
52	3-040-916-01	FOOT (FRONT), RUBBER		62	3-216-208-01	BUTTON (S/E)	
53	3-216-199-01	HOLDER (CASSETTE)		63	3-216-209-01	BUTTON (FF)	
54	2-547-170-01	SPRING (CASSETTE)		64	3-216-210-01	BUTTON (REW)	
55	A-1317-468-A	POWER KEY BOARD, COMPLETE		65	3-216-211-01	BUTTON (PLAY)	
56	3-216-204-01	BUTTON (POWER)		66	3-216-212-01	BUTTON (REC)	
57	3-216-205-01	BUTTON (FUNCTION)		67	3-254-151-01	SCREW (B2.6), (+) P TAPPING	
58	3-047-468-11	DAMPER		SP301	1-825-690-11	SPEAKER (DIA. 10cm) (L-CH)	
59	3-254-070-01	SCREW		SP302	1-825-690-11	SPEAKER (DIA. 10cm) (R-CH)	
60	3-252-827-01	SCREW (B2.6), (+) BV TAPPING					

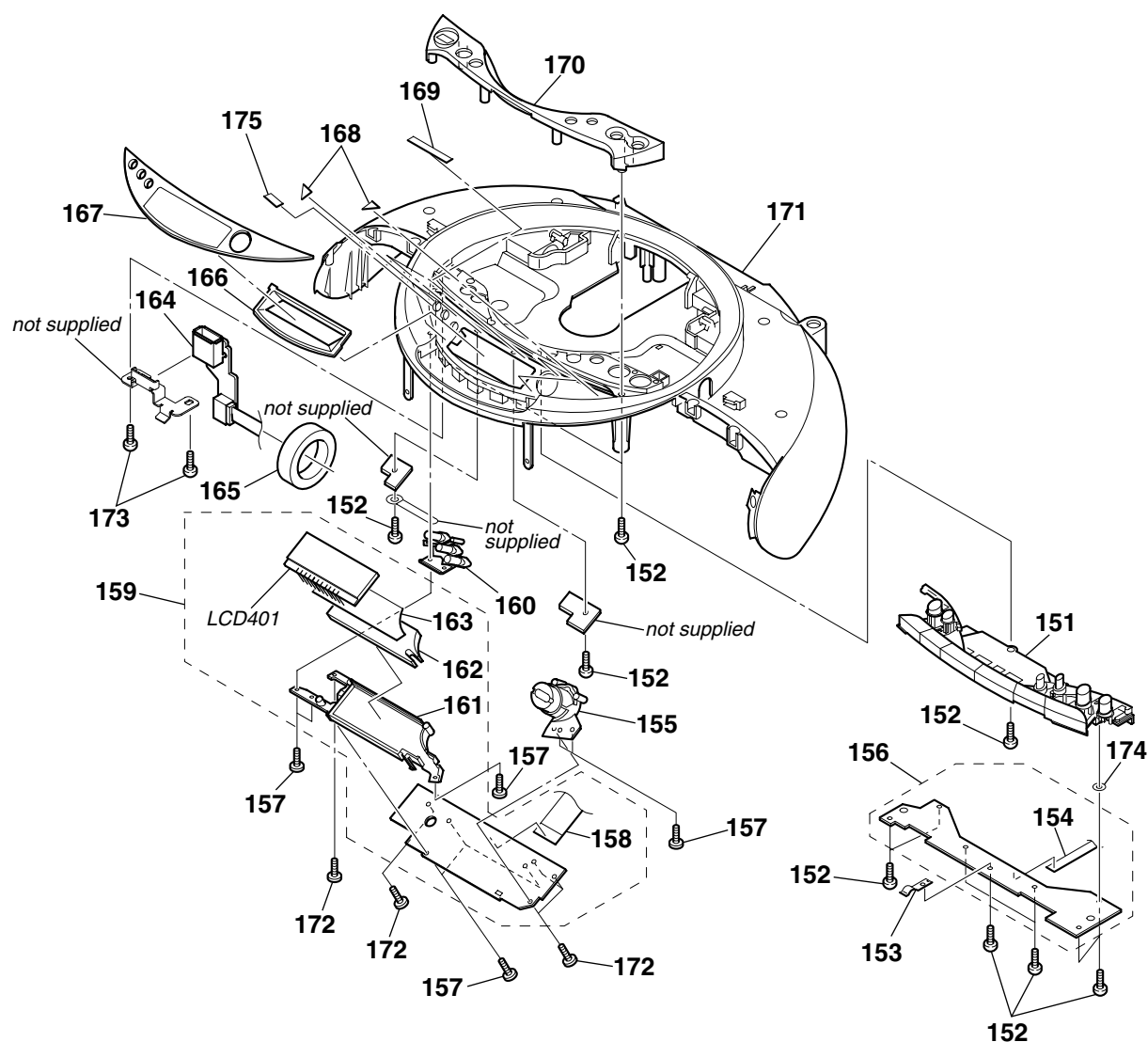
7-3. CABINET (TOP) (1) SECTION



Ref. No.	Part No.	Description	Remark
101	3-923-736-01	COVER, CD	
102	3-931-379-21	RUBBER, VIBRATION PROOF (RED)	
103	3-252-828-01	SCREW (B2.6), (+) PWH TAPPING	
104	1-832-404-21	CABLE, FLEXIBLE FLAT (16 CORE)	
105	1-832-644-21	CABLE, FLEXIBLE FLAT (27 CORE)	
106	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
107	A-1236-250-A	BD91 BOARD, COMPLETE	
108	3-931-379-31	RUBBER, VIBRATION PROOF (GREEN)	
109	3-253-143-01	SCREW (B2.6), (+) P TAPPING	
110	3-019-395-01	PLATE, CHUCKING	

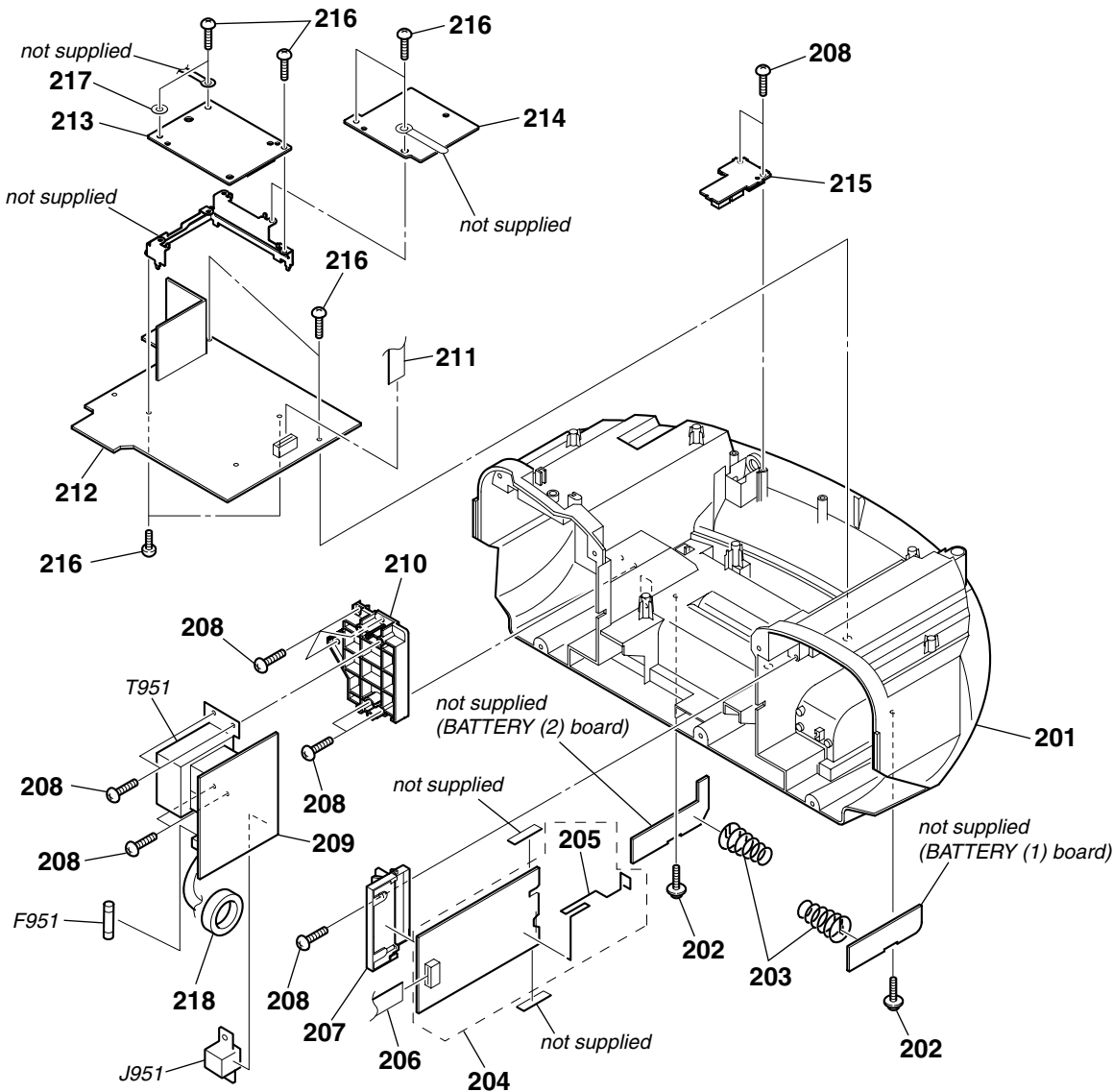
Ref. No.	Part No.	Description	Remark
111	1-452-899-11	MAGNET	
112	3-216-198-01	LID, CD	
113	2-547-171-01	SPRING (CD)	
114	3-047-468-11	DAMPER	
△ 115	8-820-126-02	OPTICAL PICK-UP (KSM-213CDP/C2NP)	
S201	1-771-853-11	SWITCH, DETECTION (LIMIT)	
S801	1-692-960-11	SWITCH, PUSH (1 KEY)	(▲ PUSH OPEN/CLOSE)
#2	7-685-853-04	SCREW +BVTT 2X6 (S)	

7-4. CABINET (TOP) (2) SECTION



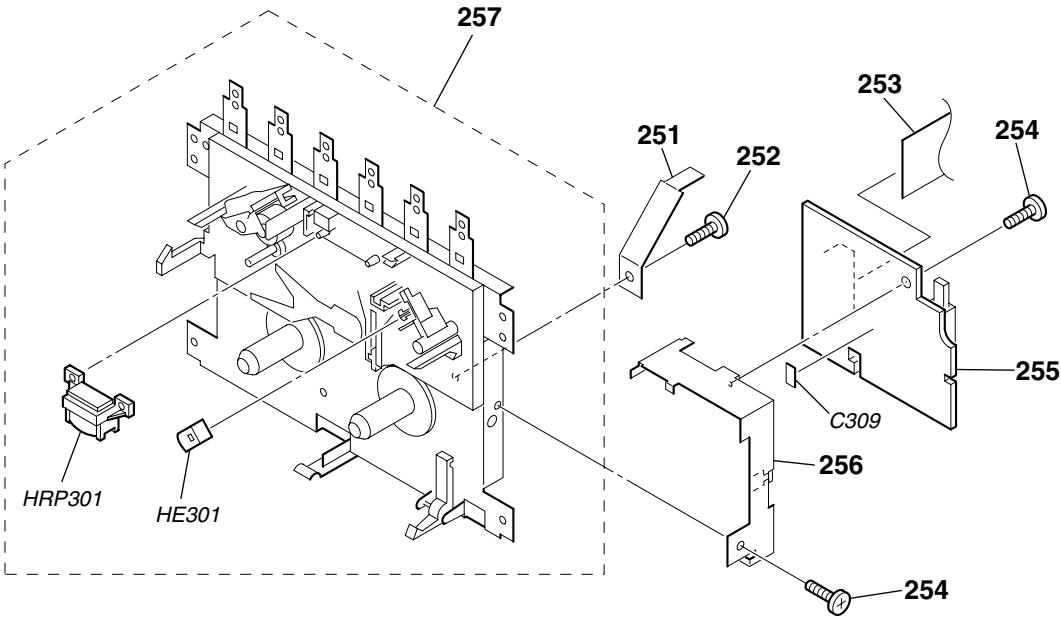
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	A-1317-472-A	BUTTON (CD) ASSY		164	A-1317-475-A	USB CONNECT BOARD, COMPLETE	
152	3-254-151-01	SCREW (B2.6), (+) P TAPPING		165	1-500-868-11	CORE, FERRITE	
153	2-594-014-01	PLATE, SUPPORT		166	3-216-216-01	ESCUTCHEON (LCD)	
154	1-834-579-21	CABLE, FLEXIBLE FLAT (5 CORE)		167	3-216-215-01	WINDOW (LCD)	
155	X-2179-688-1	BUTTON (FLDR) SUB ASSY		168	2-547-172-01	TAPE (LCD) (WINDOW)	
156	A-1317-473-A	CD KEY BOARD, COMPLETE		169	3-250-079-01	TAPE (LCD WINDOW) (B)	
157	3-254-081-01	SCREW		170	3-216-196-01	COVER (TOP)	
158	1-831-999-21	CABLE, FLEXIBLE FLAT (15 CORE)		171	3-216-193-01	CABINET (TOP)	
159	A-1317-478-A	LCD BOARD, COMPLETE		172	3-254-070-01	SCREW	
160	3-216-203-01	BUTTON (MODE)		173	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
161	2-547-164-01	HOLDER (LCD)		174	3-255-102-01	WASHER, PETP	
162	2-547-143-01	PLATE, LIGHT GUIDE		175	3-831-441-11	CUSHION (B)	
163	2-584-370-01	SHEET, LCD		LCD401	1-802-533-11	DISPLAY PANEL, LIQUID CRYSTAL	

7-5. CABINET (BOTTOM) SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-216-195-01	CABINET (BOTTOM) (MX)		212	A-1317-462-A	MAIN BOARD, COMPLETE (MX)	
201	3-216-195-11	CABINET (BOTTOM) (E41,SP)		212	A-1319-418-A	MAIN BOARD, COMPLETE (SP)	
202	3-252-828-01	SCREW (B2.6), (+) PWH TAPPING		212	A-1319-444-A	MAIN BOARD, COMPLETE (E41)	
203	3-240-561-02	TERMINAL (-), BATTERY		213	A-1317-463-A	USB BOARD, COMPLETE	
204	A-1098-549-A	TUNER BOARD, COMPLETE (MX)		214	A-1317-465-A	VOL BOARD, COMPLETE	
204	A-1098-611-A	TUNER BOARD, COMPLETE (E41,SP)		215	A-1317-460-A	HEADPHONE BOARD, COMPLETE	
205	2-547-169-01	TERMINAL, ANTENNA		216	3-254-151-01	SCREW (B2.6), (+) P TAPPING	
206	1-832-824-21	CABLE, FLEXIBLE FLAT (11 CORE)		217	3-232-994-01	WASHER	
207	3-249-551-01	HOLDER (PWB TU)		218	1-500-868-11	CORE, FERRITE	
208	3-252-827-01	SCREW (B2.6), (+) BV TAPPING		△ F951	1-532-465-33	FUSE (3.15A/250V)	
209	A-1317-459-A	POWER BOARD, COMPLETE		△ J951	1-526-838-11	INLET, AC 2P (∼ AC IN) (E41,SP)	
210	3-216-217-01	HOLDER (TRANS) (MX)		△ J951	1-540-009-11	INLET, AC (∼ AC IN) (MX)	
210	3-216-217-11	HOLDER (TRANS) (E41,SP)		△ T951	1-445-291-11	TRANSFORMER, POWER (MX)	
211	1-832-611-21	CABLE, FLEXIBLE FLAT (21 CORE)		△ T951	1-445-292-11	TRANSFORMER, POWER (E41,SP)	

7-6. TAPE MECHANISM SECTION
(MF-S350V)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	3-237-718-01	LEVER, REC		256	3-252-614-01	CHASSIS, TC	
252	3-254-022-01	SCREW		257	A-1211-775-A	MF-S350V//C	
253	1-832-833-21	CABLE, FLEXIBLE FLAT (13 CORE)		C309	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
254	3-254-029-01	SCREW		HE301	1-500-813-11	HEAD, ERASE (ERASE)	
255	A-1108-791-A	TC BOARD, COMPLETE		HRP301	3-266-053-01	HEAD, RP (REC/PB)	

SECTION 8
ELECTRICAL PARTS LIST

BATTERY (1) BATTERY (2)
BD91

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
- 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.

- Abbreviation
E41 : AC 230V area in E model
MX : Mexican model
SP : Singapore model

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		BATTERY (1) BOARD *****					
	3-240-561-02	TERMINAL (-), BATTERY					

		BATTERY (2) BOARD *****					
	3-240-561-02	TERMINAL (-), BATTERY					
		< CONNECTOR >					
CN954	1-815-550-11	PIN, CONNECTOR (PWB) 2P					

	A-1236-250-A	BD91 BOARD, COMPLETE *****					
		< CAPACITOR >					
C100	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C132	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C101	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C133	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C102	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C136	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C103	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C137	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C104	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C138	1-164-315-11	CERAMIC CHIP 470PF 5%	50V
C105	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C139	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C106	1-128-995-21	ELECT CHIP 100uF 20%	10V	C140	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C107	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C141	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C108	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C142	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C109	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C143	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C110	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C144	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C112	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C145	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C113	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C146	1-164-315-11	CERAMIC CHIP 470PF 5%	50V
C115	1-124-778-00	ELECT CHIP 22uF 20%	6.3V	C147	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C116	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C148	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C117	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V	C149	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
C118	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C150	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C119	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V	C151	1-164-315-11	CERAMIC CHIP 470PF 5%	50V
C120	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C152	1-164-315-11	CERAMIC CHIP 470PF 5%	50V
C122	1-164-315-11	CERAMIC CHIP 470PF 5%	50V	C153	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C123	1-164-315-11	CERAMIC CHIP 470PF 5%	50V	C201	1-128-995-21	ELECT CHIP 100uF 20%	10V
C124	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V	C202	1-128-995-21	ELECT CHIP 100uF 20%	10V
C125	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V	C204	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C126	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C205	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C127	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V	C206	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C128	1-162-910-11	CERAMIC CHIP 5PF 0.25PF	50V	C207	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C130	1-162-910-11	CERAMIC CHIP 5PF 0.25PF	50V	C301	1-164-360-11	CERAMIC CHIP 0.1uF	16V
				C302	1-137-710-11	CERAMIC CHIP 10uF 20%	6.3V
				C303	1-137-710-11	CERAMIC CHIP 10uF 20%	6.3V
				C306	1-128-995-21	ELECT CHIP 100uF 20%	10V
				C307	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
				C309	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
				C401	1-128-394-11	ELECT CHIP 220uF 20%	10V
				C403	1-164-360-11	CERAMIC CHIP 0.1uF	16V
				C404	1-164-360-11	CERAMIC CHIP 0.1uF	16V
				C405	1-164-360-11	CERAMIC CHIP 0.1uF	16V
						< CONNECTOR >	
				CN202	1-784-835-51	CONNECTOR, FFC (LIF(NON-ZIF)) 27P	
				CN301	1-770-425-51	CONNECTOR, FFC/FPC 16P	
						< IC >	
				IC101	6-710-827-01	IC TC94A70FG-008(S,D)	
				IC201	6-710-808-01	IC TK63115SCL-G@GT	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
IC401	6-710-637-01	IC BA5826SFP-E2				R216	1-216-809-11	METAL CHIP	100	5%	1/10W
		< TRANSISTOR >				R218	1-216-845-11	METAL CHIP	100K	5%	1/10W
						R219	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q301	6-551-120-01	TRANSISTOR 2SA2119K				R220	1-216-845-11	METAL CHIP	100K	5%	1/10W
		< RESISTOR >				R221	1-216-845-11	METAL CHIP	100K	5%	1/10W
R101	1-216-813-11	METAL CHIP	220	5%	1/10W	R222	1-216-845-11	METAL CHIP	100K	5%	1/10W
R102	1-216-833-11	METAL CHIP	10K	5%	1/10W	R223	1-216-845-11	METAL CHIP	100K	5%	1/10W
R104	1-216-295-11	SHORT CHIP	0			R224	1-216-809-11	METAL CHIP	100	5%	1/10W
R105	1-216-857-11	METAL CHIP	1M	5%	1/10W	R301	1-216-845-11	METAL CHIP	100K	5%	1/10W
R106	1-216-821-11	METAL CHIP	1K	5%	1/10W	R302	1-216-864-11	SHORT CHIP	0		
R108	1-500-445-21	FERRITE, EMI (SMD) (2012)				R303	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R109	1-216-809-11	METAL CHIP	100	5%	1/10W	R304	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R110	1-216-833-11	METAL CHIP	10K	5%	1/10W	R402	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R111	1-216-809-11	METAL CHIP	100	5%	1/10W	R405	1-216-833-11	METAL CHIP	10K	5%	1/10W
R112	1-216-809-11	METAL CHIP	100	5%	1/10W	R408	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R114	1-216-833-11	METAL CHIP	10K	5%	1/10W	R414	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R118	1-216-845-11	METAL CHIP	100K	5%	1/10W	R415	1-216-841-11	METAL CHIP	47K	5%	1/10W
R119	1-216-864-11	SHORT CHIP	0					< VIBRATOR >			
R121	1-216-809-11	METAL CHIP	100	5%	1/10W	X102	1-795-101-21	VIBRATOR, CERAMIC (16.934MHz)			
R128	1-216-853-11	METAL CHIP	470K	5%	1/10W	*****					
							A-1317-473-A	CD KEY BOARD, COMPLETE			
R129	1-216-821-11	METAL CHIP	1K	5%	1/10W			*****			
R130	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R134	1-216-857-11	METAL CHIP	1M	5%	1/10W		1-834-579-21	CABLE, FLEXIBLE FLAT (5 CORE) (CN401)			
R135	1-216-853-11	METAL CHIP	470K	5%	1/10W						
R136	1-216-837-11	METAL CHIP	22K	5%	1/10W			< CAPACITOR >			
R139	1-216-841-11	METAL CHIP	47K	5%	1/10W	C401	1-135-834-11	CERAMIC CHIP	2.2uF		6.3V
R140	1-216-864-11	SHORT CHIP	0					< IC >			
R142	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R143	1-216-841-11	METAL CHIP	47K	5%	1/10W	IC401	6-600-108-01	IC RPM7140 (IR)			
R144	1-216-837-11	METAL CHIP	22K	5%	1/10W			< RESISTOR >			
R145	1-216-864-11	SHORT CHIP	0			R401	1-216-813-11	METAL CHIP	220	5%	1/10W
R146	1-216-864-11	SHORT CHIP	0			R402	1-216-817-11	METAL CHIP	470	5%	1/10W
R147	1-216-864-11	SHORT CHIP	0			R403	1-216-821-11	METAL CHIP	1K	5%	1/10W
R148	1-216-864-11	SHORT CHIP	0			R404	1-216-821-11	METAL CHIP	1K	5%	1/10W
R149	1-216-864-11	SHORT CHIP	0			R405	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R150	1-216-864-11	SHORT CHIP	0			R406	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R151	1-216-864-11	SHORT CHIP	0			R407	1-216-821-11	METAL CHIP	1K	5%	1/10W
R153	1-216-857-11	METAL CHIP	1M	5%	1/10W	R408	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R154	1-216-857-11	METAL CHIP	1M	5%	1/10W	R409	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R155	1-216-805-11	METAL CHIP	47	5%	1/10W	R410	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R156	1-216-809-11	METAL CHIP	100	5%	1/10W	R411	1-216-833-11	METAL CHIP	10K	5%	1/10W
R157	1-216-809-11	METAL CHIP	100	5%	1/10W	R412	1-216-813-11	METAL CHIP	220	5%	1/10W
R201	1-216-295-11	SHORT CHIP	0			R413	1-216-817-11	METAL CHIP	470	5%	1/10W
R202	1-216-295-11	SHORT CHIP	0			R414	1-216-821-11	METAL CHIP	1K	5%	1/10W
R203	1-216-809-11	METAL CHIP	100	5%	1/10W	R415	1-216-821-11	METAL CHIP	1K	5%	1/10W
R204	1-216-809-11	METAL CHIP	100	5%	1/10W	R416	1-216-841-11	METAL CHIP	47K	5%	1/10W
R205	1-216-809-11	METAL CHIP	100	5%	1/10W	R417	1-216-845-11	METAL CHIP	100K	5%	1/10W
R206	1-216-809-11	METAL CHIP	100	5%	1/10W	R505	1-216-809-11	METAL CHIP	100	5%	1/10W
R207	1-216-809-11	METAL CHIP	100	5%	1/10W			< SWITCH >			
R208	1-216-809-11	METAL CHIP	100	5%	1/10W						
						S401	1-786-726-11	SWITCH, TACTILE (CD-USB SYNC/REC1)			
R209	1-216-809-11	METAL CHIP	100	5%	1/10W	S402	1-786-726-11	SWITCH, TACTILE (SOUND)			
R210	1-216-809-11	METAL CHIP	100	5%	1/10W	S403	1-786-726-11	SWITCH, TACTILE (TUNE -/◀◀)			
R211	1-216-809-11	METAL CHIP	100	5%	1/10W	S404	1-786-726-11	SWITCH, TACTILE (TUNE +/▶▶)			
R212	1-216-809-11	METAL CHIP	100	5%	1/10W						
R213	1-216-809-11	METAL CHIP	100	5%	1/10W						
R214	1-216-809-11	METAL CHIP	100	5%	1/10W						

CFD-RS60CP

CD KEY

HEADPHONE

LCD

Ref. No.	Part No.	Description	Remark			
S405	1-786-726-11	SWITCH, TACTILE (PRESET -/◀◀)				
S406	1-786-726-11	SWITCH, TACTILE (PRESET +/▶▶)				
S407	1-786-726-11	SWITCH, TACTILE (▶▶)				
S408	1-786-726-11	SWITCH, TACTILE (■)				
S409	1-786-726-11	SWITCH, TACTILE (ERASE)				
S410	1-786-726-11	SWITCH, TACTILE (VOLUME +)				
S411	1-786-726-11	SWITCH, TACTILE (VOLUME -)				
S412	1-786-726-11	SWITCH, TACTILE (MEGABASS)				

A-1317-460-A		HEADPHONE BOARD, COMPLETE				

< CONNECTOR >						
* CN371	1-815-552-21	PIN, CONNECTOR (PWB) 4P				
CN372	1-815-552-11	PIN, CONNECTOR (PWB) 4P				
< JACK >						
J371	1-815-325-11	JACK (♂)				
< COIL >						
L171	1-410-509-11	INDUCTOR	10uH			
L271	1-410-509-11	INDUCTOR	10uH			
< RESISTOR >						
R171	1-216-809-11	METAL CHIP	100	5%	1/10W	
R271	1-216-809-11	METAL CHIP	100	5%	1/10W	

A-1317-478-A		LCD BOARD, COMPLETE				

1-831-999-21		CABLE, FLEXIBLE FLAT (15 CORE) (CN407)				
2-547-143-01		PLATE, LIGHT GUIDE				
2-547-164-01		HOLDER (LCD)				
2-584-370-01		SHEET, LCD				
< CAPACITOR >						
C407	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C408	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
< CONNECTOR >						
CN402	1-770-514-31	CONNECTOR, FFC/FPC 5P				
< DIODE >						
D401	6-501-437-01	DIODE SLI-343YC3F (LCD BACK LIGHT)				
D403	8-719-059-97	LED L-34HD (OPR/BATT)				
< IC >						
IC402	6-709-360-01	IC NJU6533FA2				
< COIL >						
L401	1-410-509-11	INDUCTOR	10uH			
< LIQUID CRYSTAL DISPLAY >						
LCD401	1-802-533-11	DISPLAY PANEL, LIQUID CRYSTAL				

Ref. No.	Part No.	Description	Remark			
< RESISTOR >						
R425	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R426	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R427	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R428	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R429	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R430	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R431	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R432	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R433	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R434	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R435	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R436	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R437	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R438	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R439	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R440	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R441	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R442	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R443	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R444	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R445	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R446	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R447	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R448	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R449	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R450	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R451	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R452	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R453	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R454	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R455	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R456	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R457	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R459	1-216-813-11	METAL CHIP	220	5%	1/10W	
R461	1-216-813-11	METAL CHIP	220	5%	1/10W	
R462	1-216-813-11	METAL CHIP	220	5%	1/10W	
R463	1-216-813-11	METAL CHIP	220	5%	1/10W	
R464	1-216-813-11	METAL CHIP	220	5%	1/10W	
R465	1-216-853-11	METAL CHIP	470K	5%	1/10W	
R466	1-216-849-11	METAL CHIP	220K	5%	1/10W	
R467	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R468	1-216-813-11	METAL CHIP	220	5%	1/10W	
R470	1-216-813-11	METAL CHIP	220	5%	1/10W	
R471	1-216-813-11	METAL CHIP	220	5%	1/10W	
R472	1-216-817-11	METAL CHIP	470	5%	1/10W	
R473	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R474	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R475	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R501	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R502	1-216-809-11	METAL CHIP	100	5%	1/10W	
R503	1-216-809-11	METAL CHIP	100	5%	1/10W	
R504	1-216-809-11	METAL CHIP	100	5%	1/10W	
< SWITCH >						
S419	1-786-726-11	SWITCH, TACTILE (DISP/ENT/MEMORY)				
S420	1-786-726-11	SWITCH, TACTILE (MODE)				

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
S421	1-786-726-11	SWITCH, TACTILE (REPEAT)				C818	1-164-315-11	CERAMIC CHIP 470PF	5%	50V	
S422	1-786-726-11	SWITCH, TACTILE (MP3  -)				C819	1-164-315-11	CERAMIC CHIP 470PF	5%	50V	
S423	1-786-726-11	SWITCH, TACTILE (MP3  +)				C821	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	

	A-1317-462-A	MAIN BOARD, COMPLETE (MX)				C822	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
	A-1319-418-A	MAIN BOARD, COMPLETE (SP)				C823	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
	A-1319-444-A	MAIN BOARD, COMPLETE (E41)									

	3-254-151-01	SCREW (B2.6), (+) P TAPPING				C824	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V	
	< CAPACITOR >										
C101	1-126-926-11	ELECT	1000uF	20%	10V	C825	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V	
C102	1-104-658-11	ELECT	100uF	20%	10V	C826	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C103	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C827	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C104	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C828	1-164-315-11	CERAMIC CHIP 470PF	5%	50V	
C106	1-126-947-11	ELECT	47uF	20%	35V						
C107	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C829	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C108	1-126-959-11	ELECT	0.47uF	20%	50V	C830	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C109	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C831	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C110	1-126-163-11	ELECT	4.7uF	20%	50V	C832	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C201	1-126-926-11	ELECT	1000uF	20%	10V	C833	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C202	1-125-972-11	ELECT	100uF	20%	16V						
C203	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C834	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C204	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C835	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C206	1-124-589-11	ELECT	47uF	20%	16V	C836	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C207	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C837	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C208	1-126-959-11	ELECT	0.47uF	20%	50V	C838	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C209	1-165-908-11	CERAMIC CHIP	1uF	10%	10V						
C210	1-126-163-11	ELECT	4.7uF	20%	50V	C839	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C301	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C840	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C303	1-126-947-11	ELECT	47uF	20%	35V	C841	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C304	1-126-947-11	ELECT	47uF	20%	35V	C842	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C409	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C843	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V	
C410	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C411	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C844	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V	
C412	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C845	1-162-913-11	CERAMIC CHIP 8PF	0.5PF	50V	
C413	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C846	1-162-919-11	CERAMIC CHIP 22PF	5%	50V	
C415	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C847	1-162-970-11	CERAMIC CHIP 0.01uF	10%	25V	
C416	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C848	1-162-913-11	CERAMIC CHIP 8PF	0.5PF	50V	
C417	1-125-972-11	ELECT	100uF	20%	16V						
C418	1-135-834-11	CERAMIC CHIP	2.2uF		6.3V	C849	1-162-919-11	CERAMIC CHIP 22PF	5%	50V	
C801	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C850	1-162-923-11	CERAMIC CHIP 47PF	5%	50V	
C802	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C852	1-162-923-11	CERAMIC CHIP 47PF	5%	50V	
C803	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C854	1-162-970-11	CERAMIC CHIP 0.01uF	10%	25V	
C804	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C855	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C806	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						
C807	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C856	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
C808	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C857	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V	
C809	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C858	1-164-315-11	CERAMIC CHIP 470PF	5%	50V	
C810	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C859	1-164-315-11	CERAMIC CHIP 470PF	5%	50V	
C811	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C860	1-162-964-11	CERAMIC CHIP 0.001uF	10%	50V	
C812	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						
C813	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C861	1-164-315-11	CERAMIC CHIP 470PF	5%	50V	
C814	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C862	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V	
C815	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C863	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V	
C816	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C864	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V	
C817	1-164-315-11	CERAMIC CHIP	470PF	5%	50V	C866	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V	
						C868	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V	
						C869	1-126-925-11	ELECT 470uF	20%	10V	
						C870	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V	
						C872	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
						C873	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
						C874	1-162-927-11	CERAMIC CHIP 100PF	5%	50V	
						C875	1-164-315-11	CERAMIC CHIP 470PF	5%	50V	
						C876	1-164-315-11	CERAMIC CHIP 470PF	5%	50V	
						C879	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V	
						C884	1-164-315-11	CERAMIC CHIP 470PF	5%	50V	
						C885	1-164-315-11	CERAMIC CHIP 470PF	5%	50V	
						C886	1-135-834-11	CERAMIC CHIP 2.2uF		6.3V	
						C887	1-162-970-11	CERAMIC CHIP 0.01uF	10%	25V	

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MAIN

Ref. No.	Part No.	Description	Remark		
C888	1-125-972-11	ELECT	100uF	20%	16V
C889	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C890	1-125-972-11	ELECT	100uF	20%	16V
C891	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C892	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C893	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C894	1-125-972-11	ELECT	100uF	20%	16V
C895	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C896	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C897	1-126-935-11	ELECT	470uF	20%	16V
C898	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C899	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C901	1-126-937-11	ELECT	4700uF	20%	16V
C902	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C903	1-104-666-11	ELECT	220uF	20%	25V
C904	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C905	1-126-935-11	ELECT	470uF	20%	16V
C906	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C907	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C908	1-126-935-11	ELECT	470uF	20%	16V
C909	1-126-964-11	ELECT	10uF	20%	50V
C910	1-125-972-11	ELECT	100uF	20%	16V
C911	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C912	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C913	1-126-941-11	ELECT	470uF	20%	25V
C914	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C915	1-126-947-11	ELECT	47uF	20%	35V
C916	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C917	1-126-947-11	ELECT	47uF	20%	35V
< CONNECTOR >					
CN404	1-815-443-11	PIN, CONNECTOR (PWB) 2P			
CN408	1-784-776-11	CONNECTOR, FFC 15P			
CN801	1-779-295-11	CONNECTOR, FFC (LIF(NON-ZIF)) 27P			
CN802	1-779-289-11	CONNECTOR, FFC (LIF(NON-ZIF)) 21P			
CN804	1-568-830-11	CONNECTOR, FFC 11P			
CN805	1-784-774-11	CONNECTOR, FFC 13P			
CN806	1-815-445-11	PIN, CONNECTOR (PWB) 4P			
CN901	1-815-447-11	PIN, CONNECTOR (PWB) 6P			
< DIODE >					
D404	8-719-404-50	DIODE	MA111-TX		
D801	8-719-404-50	DIODE	MA111-TX		
D802	6-500-335-01	DIODE	MC2838-T112-1		
D901	6-500-334-01	DIODE	MC2836-T112-1		
D902	8-719-404-50	DIODE	MA111-TX		
D903	8-719-978-33	DIODE	DTZ-TT11-6.8B		
D904	6-500-335-01	DIODE	MC2838-T112-1		
D905	8-719-069-54	DIODE	UDZSNPTE-175.1B		
D906	8-719-085-36	DIODE	11EQS04-TB5		
D907	8-719-083-58	DIODE	UDZSNPTE-173.9B		
< FERRITE BEAD >					
FB801	1-216-864-11	SHORT CHIP	0		
FB802	1-216-864-11	SHORT CHIP	0		
FB803	1-216-864-11	SHORT CHIP	0		
FB804	1-414-445-11	FERRITE, EMI (SMD)	(1608)		
FB805	1-414-445-11	FERRITE, EMI (SMD)	(1608)		

Ref. No.	Part No.	Description	Remark
FB806	1-414-445-11	FERRITE, EMI (SMD) (1608)	
FB807	1-414-445-11	FERRITE, EMI (SMD) (1608)	
FB808	1-414-445-11	FERRITE, EMI (SMD) (1608)	
FB809	1-216-864-11	SHORT CHIP 0	
FB810	1-414-760-21	FERRITE, EMI (SMD) (1608)	
FB811	1-414-760-21	FERRITE, EMI (SMD) (1608)	
FB812	1-414-760-21	FERRITE, EMI (SMD) (1608)	
FB813	1-414-445-11	FERRITE, EMI (SMD) (1608)	
FB814	1-414-445-11	FERRITE, EMI (SMD) (1608)	
FB815	1-414-760-21	FERRITE, EMI (SMD) (1608)	
< IC >			
IC301	8-759-426-51	IC BA5417	
IC801	6-807-680-01	IC MB90F045PF-G-9064-SPE1	
IC802	6-703-740-01	IC S-24CS02AFT-TB-G	
IC803	8-759-523-03	IC TC74HC4066AFT(EL)	
IC804	6-707-870-01	IC TC74VHC157FT(EKJ)	
IC805	8-759-523-03	IC TC74HC4066AFT(EL)	
IC806	6-706-338-01	IC XC6202P332FR	
IC807	6-704-118-01	IC S-80828CNMC-B8NT2G	
IC901	6-702-472-01	IC PQ1CZ21H2ZPH	
< JUMPER RESISTOR >			
JC802	1-216-864-11	SHORT CHIP 0	
JC804	1-216-864-11	SHORT CHIP 0	
JC805	1-216-864-11	SHORT CHIP 0	
JC808	1-216-864-11	SHORT CHIP 0	
< COIL >			
L801	1-410-509-11	INDUCTOR 10uH	
L802	1-410-509-11	INDUCTOR 10uH	
L806	1-410-509-11	INDUCTOR 10uH	
L901	1-481-245-11	INDUCTOR 220uH	
< TRANSISTOR >			
Q101	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q201	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q401	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
Q403	8-729-027-26	TRANSISTOR DTA114YKA-T146	
Q404	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q801	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q802	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q803	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q804	6-551-067-01	FET RTF015P02TL	
Q805	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q806	8-729-027-26	TRANSISTOR DTA114YKA-T146	
Q807	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q808	8-729-027-26	TRANSISTOR DTA114YKA-T146	
Q809	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q810	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q811	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q812	8-729-037-13	TRANSISTOR KTA1271Y	
Q813	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q814	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
Q901	8-729-040-76	TRANSISTOR KTA1273-Y-AT	
Q902	6-551-276-01	TRANSISTOR RT1N431C-TP-1	
Q903	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q904	8-729-018-99	TRANSISTOR 2SD2394-F	
Q905	8-729-018-99	TRANSISTOR 2SD2394-F	

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
< RESISTOR >							R810	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R101	1-216-789-11	METAL CHIP	2.2	5%	1/10W		R811	1-216-809-11	METAL CHIP	100	5%	1/10W	
	1-216-813-11	METAL CHIP	220	5%	1/10W		R812	1-216-809-11	METAL CHIP	100	5%	1/10W	
	1-216-817-11	METAL CHIP	470	5%	1/10W		R813	1-216-809-11	METAL CHIP	100	5%	1/10W	
	1-216-833-11	METAL CHIP	10K	5%	1/10W		R814	1-216-809-11	METAL CHIP	100	5%	1/10W	
	1-216-833-11	METAL CHIP	10K	5%	1/10W								
R107	1-216-821-11	METAL CHIP	1K	5%	1/10W		R815	1-216-809-11	METAL CHIP	100	5%	1/10W	
	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		R816	1-216-821-11	METAL CHIP	1K	5%	1/10W	
	1-216-833-11	METAL CHIP	10K	5%	1/10W		R817	1-216-821-11	METAL CHIP	1K	5%	1/10W	
	1-216-821-11	METAL CHIP	1K	5%	1/10W		R818	1-216-821-11	METAL CHIP	1K	5%	1/10W	
	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R819	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R201	1-216-789-11	METAL CHIP	2.2	5%	1/10W		R820	1-216-821-11	METAL CHIP	1K	5%	1/10W	
	1-216-813-11	METAL CHIP	220	5%	1/10W		R821	1-216-821-11	METAL CHIP	1K	5%	1/10W	
	1-216-817-11	METAL CHIP	470	5%	1/10W		R822	1-216-809-11	METAL CHIP	100	5%	1/10W	
	1-216-833-11	METAL CHIP	10K	5%	1/10W		R823	1-216-809-11	METAL CHIP	100	5%	1/10W	
	1-216-833-11	METAL CHIP	10K	5%	1/10W		R824	1-216-817-11	METAL CHIP	470	5%	1/10W	
R207	1-216-821-11	METAL CHIP	1K	5%	1/10W		R825	1-216-817-11	METAL CHIP	470	5%	1/10W	
	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		R826	1-216-817-11	METAL CHIP	470	5%	1/10W	
	1-216-833-11	METAL CHIP	10K	5%	1/10W		R827	1-216-809-11	METAL CHIP	100	5%	1/10W	
	1-216-821-11	METAL CHIP	1K	5%	1/10W		R828	1-216-809-11	METAL CHIP	100	5%	1/10W	
	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R830	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R301	1-216-821-11	METAL CHIP	1K	5%	1/10W		R831	1-216-821-11	METAL CHIP	1K	5%	1/10W	
	1-216-853-11	METAL CHIP	470K	5%	1/10W		R832	1-216-821-11	METAL CHIP	1K	5%	1/10W	
	1-216-821-11	METAL CHIP	1K	5%	1/10W		R833	1-216-821-11	METAL CHIP	1K	5%	1/10W	
	1-216-821-11	METAL CHIP	1K	5%	1/10W		R834	1-216-837-11	METAL CHIP	22K	5%	1/10W	
	1-216-821-11	METAL CHIP	1K	5%	1/10W		R835	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R478	1-216-821-11	METAL CHIP	1K	5%	1/10W		R836	1-216-837-11	METAL CHIP	22K	5%	1/10W	
	1-216-821-11	METAL CHIP	1K	5%	1/10W		R837	1-216-864-11	SHORT CHIP	0			
	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R838	1-216-833-11	METAL CHIP	10K	5%	1/10W	
	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R839	1-216-833-11	METAL CHIP	10K	5%	1/10W	
	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R840	1-216-864-11	SHORT CHIP	0			
R483	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R841	1-216-833-11	METAL CHIP	10K	5%	1/10W	
	1-216-841-11	METAL CHIP	47K	5%	1/10W		R842	1-216-837-11	METAL CHIP	22K	5%	1/10W	
	1-216-853-11	METAL CHIP	470K	5%	1/10W		R843	1-216-864-11	SHORT CHIP	0			
	1-216-864-11	SHORT CHIP	0				R844	1-216-833-11	METAL CHIP	10K	5%	1/10W	
	1-216-821-11	METAL CHIP	1K	5%	1/10W		R845	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R488	1-216-817-11	METAL CHIP	470	5%	1/10W		R846	1-216-821-11	METAL CHIP	1K	5%	1/10W	
	1-216-817-11	METAL CHIP	470	5%	1/10W		R847	1-216-833-11	METAL CHIP	10K	5%	1/10W	
	1-216-817-11	METAL CHIP	470	5%	1/10W		R848	1-216-821-11	METAL CHIP	1K	5%	1/10W	
	1-216-817-11	METAL CHIP	470	5%	1/10W		R849	1-216-841-11	METAL CHIP	47K	5%	1/10W	
	1-216-809-11	METAL CHIP	100	5%	1/10W		R850	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R493	1-216-817-11	METAL CHIP	470	5%	1/10W		R851	1-216-841-11	METAL CHIP	47K	5%	1/10W	
	1-216-845-11	METAL CHIP	100K	5%	1/10W		R852	1-216-821-11	METAL CHIP	1K	5%	1/10W	
	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		R853	1-216-845-11	METAL CHIP	100K	5%	1/10W	
	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R854	1-216-821-11	METAL CHIP	1K	5%	1/10W	
	1-216-853-11	METAL CHIP	470K	5%	1/10W		R855	1-216-809-11	METAL CHIP	100	5%	1/10W	
R498	1-216-841-11	METAL CHIP	47K	5%	1/10W		R856	1-216-821-11	METAL CHIP	1K	5%	1/10W	
	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R857	1-216-821-11	METAL CHIP	1K	5%	1/10W	
	1-216-833-11	METAL CHIP	10K	5%	1/10W		R858	1-216-821-11	METAL CHIP	1K	5%	1/10W	
							R859	1-216-821-11	METAL CHIP	1K	5%	1/10W	
							R860	1-216-809-11	METAL CHIP	100	5%	1/10W	
R802	1-216-864-11	SHORT CHIP	0 (E41,MX)			(SP)	R861	1-216-821-11	METAL CHIP	1K	5%	1/10W	
	1-216-833-11	METAL CHIP	10K	5%	1/10W	(E41,MX)	R862	1-216-821-11	METAL CHIP	1K	5%	1/10W	
							R863	1-216-833-11	METAL CHIP	10K	5%	1/10W	
							R864	1-216-833-11	METAL CHIP	10K	5%	1/10W	
							R865	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R806	1-216-864-11	SHORT CHIP	0 (MX)				R866	1-216-821-11	METAL CHIP	1K	5%	1/10W	
	1-216-821-11	METAL CHIP	1K	5%	1/10W		R867	1-216-821-11	METAL CHIP	1K	5%	1/10W	
							R868	1-216-845-11	METAL CHIP	100K	5%	1/10W	

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MAIN

POWER

POWER KEY

TC

Ref. No.	Part No.	Description	Remark		
R869	1-216-821-11	METAL CHIP	1K	5%	1/10W
R870	1-216-821-11	METAL CHIP	1K	5%	1/10W
R871	1-216-821-11	METAL CHIP	1K	5%	1/10W
R872	1-216-821-11	METAL CHIP	1K	5%	1/10W
R874	1-216-817-11	METAL CHIP	470	5%	1/10W
R875	1-216-833-11	METAL CHIP	10K	5%	1/10W
R877	1-216-821-11	METAL CHIP	1K	5%	1/10W
R878	1-216-821-11	METAL CHIP	1K	5%	1/10W
R879	1-216-821-11	METAL CHIP	1K	5%	1/10W
R880	1-216-809-11	METAL CHIP	100	5%	1/10W
R881	1-216-809-11	METAL CHIP	100	5%	1/10W
R882	1-216-809-11	METAL CHIP	100	5%	1/10W
R883	1-216-809-11	METAL CHIP	100	5%	1/10W
R884	1-216-809-11	METAL CHIP	100	5%	1/10W
R885	1-216-833-11	METAL CHIP	10K	5%	1/10W
R886	1-216-845-11	METAL CHIP	100K	5%	1/10W
R887	1-216-853-11	METAL CHIP	470K	5%	1/10W
R888	1-216-837-11	METAL CHIP	22K	5%	1/10W
R889	1-216-837-11	METAL CHIP	22K	5%	1/10W
R890	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R891	1-216-857-11	METAL CHIP	1M	5%	1/10W
R892	1-216-864-11	SHORT CHIP	0		
R893	1-216-845-11	METAL CHIP	100K	5%	1/10W
R894	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R895	1-216-833-11	METAL CHIP	10K	5%	1/10W
R896	1-216-845-11	METAL CHIP	100K	5%	1/10W
R897	1-216-821-11	METAL CHIP	1K	5%	1/10W
R898	1-216-845-11	METAL CHIP	100K	5%	1/10W
R899	1-216-837-11	METAL CHIP	22K	5%	1/10W
R901	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R902	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R903	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R904	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R905	1-216-841-11	METAL CHIP	47K	5%	1/10W
R906	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R907	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R908	1-216-833-11	METAL CHIP	10K	5%	1/10W
R909	1-216-833-11	METAL CHIP	10K	5%	1/10W
R910	1-216-821-11	METAL CHIP	1K	5%	1/10W
R911	1-216-821-11	METAL CHIP	1K	5%	1/10W
R912	1-216-821-11	METAL CHIP	1K	5%	1/10W
R913	1-216-821-11	METAL CHIP	1K	5%	1/10W
R914	1-216-821-11	METAL CHIP	1K	5%	1/10W
R915	1-216-809-11	METAL CHIP	100	5%	1/10W
R916	1-216-817-11	METAL CHIP	470	5%	1/10W
R917	1-216-817-11	METAL CHIP	470	5%	1/10W
R918	1-216-817-11	METAL CHIP	470	5%	1/10W
R919	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R920	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R921	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R922	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R923	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R924	1-216-809-11	METAL CHIP	100	5%	1/10W
R925	1-216-809-11	METAL CHIP	100	5%	1/10W
R926	1-216-833-11	METAL CHIP	10K	5%	1/10W
R927	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description	Remark			
		< VIBRATOR >				
X801	1-813-940-21	PIEZOELECTRIC OSCILLATOR (5.53MHz)				

	A-1317-459-A	POWER BOARD, COMPLETE				

	1-533-233-31	HOLDER, FUSE				
		< CAPACITOR >				
C951	1-126-947-11	ELECT	47uF	20%	35V	
C952	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C953	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C954	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C955	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C956	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C957	1-126-768-11	ELECT	2200uF	20%	16V	
		< CONNECTOR >				
CN952	1-815-446-11	PIN, CONNECTOR (PWB) 5P				
		< DIODE >				
D951	6-501-569-01	DIODE 1N5401-C352				
D952	6-501-569-01	DIODE 1N5401-C352				
D953	6-501-569-01	DIODE 1N5401-C352				
D954	6-501-569-01	DIODE 1N5401-C352				

	A-1317-468-A	POWER KEY BOARD, COMPLETE				

		< RESISTOR >				
R418	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R419	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R420	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R421	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R422	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R423	1-216-817-11	METAL CHIP	470	5%	1/10W	
R424	1-216-813-11	METAL CHIP	220	5%	1/10W	
		< SWITCH >				
S413	1-786-726-11	SWITCH, TACTILE (USB)				
S414	1-786-726-11	SWITCH, TACTILE (TAPE)				
S415	1-786-726-11	SWITCH, TACTILE (RADIO/AUTO PRESET)				
S416	1-786-726-11	SWITCH, TACTILE (CD)				
S417	1-786-726-11	SWITCH, TACTILE (SLEEP)				
S418	1-786-726-11	SWITCH, TACTILE (OPERATE)				

	A-1108-791-A	TC BOARD, COMPLETE				

		< CAPACITOR >				
C101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C102	1-104-658-11	ELECT	100uF	20%	10V	
C103	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C104	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C105	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C107	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	R212	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
C201	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	R301	1-216-857-11	METAL CHIP	1M	5%	1/10W
C202	1-104-658-11	ELECT	100uF	20%	10V	R302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
C203	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	R303	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
C204	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	R304	1-216-821-11	METAL CHIP	1K	5%	1/10W
C205	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	R305	1-216-817-11	METAL CHIP	470	5%	1/10W
C207	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	R306	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
C301	1-104-658-11	ELECT	100uF	20%	10V	R307	1-216-797-11	METAL CHIP	10	5%	1/10W
C302	1-104-658-11	ELECT	100uF	20%	10V	R308	1-216-837-11	METAL CHIP	22K	5%	1/10W
C303	1-104-658-11	ELECT	100uF	20%	10V	R309	1-216-805-11	METAL CHIP	47	5%	1/10W
C304	1-126-947-11	ELECT	47uF	20%	35V	R310	1-216-857-11	METAL CHIP	1M	5%	1/10W
C305	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	R311	1-216-857-11	METAL CHIP	1M	5%	1/10W
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	R314	1-216-817-11	METAL CHIP	470	5%	1/10W
C307	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	R315	1-216-817-11	METAL CHIP	470	5%	1/10W
C308	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	< SWITCH >					
C310	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	S301	1-786-126-11	SWITCH, SLIDE (REC/PB)			
< CONNECTOR >					< TRANSFORMER >						
CN303	1-784-774-11	CONNECTOR, FFC 13P				T301	1-416-041-11	TRANSFORMER, BIAS OSCILLATION			
< IC >					*****						
IC301	6-710-092-01	IC TA2068NG(5,HZ)				A-1098-549-A TUNER BOARD, COMPLETE (MX)					
< JUMPER RESISTOR >					A-1098-611-A TUNER BOARD, COMPLETE (E41,SP)						

JC301	1-216-864-11	SHORT CHIP	0								
JC302	1-216-864-11	SHORT CHIP	0								
JC303	1-216-864-11	SHORT CHIP	0								
JC304	1-216-864-11	SHORT CHIP	0								
JC305	1-216-864-11	SHORT CHIP	0								
JC306	1-216-295-11	SHORT CHIP	0								
JC307	1-216-864-11	SHORT CHIP	0								
JC308	1-216-295-11	SHORT CHIP	0								
JC309	1-216-864-11	SHORT CHIP	0								
< TRANSISTOR >					2-547-169-01 TERMINAL, ANTENNA						
					< CAPACITOR >						
Q301	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R			C1	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
Q302	8-729-907-00	TRANSISTOR	DTC114EU			C4	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
Q303	8-729-907-00	TRANSISTOR	DTC114EU			C7	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
					C8	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
					C9	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	
					C10	1-126-960-11	ELECT	1uF	20%	50V	
					C11	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
					C12	1-126-963-11	ELECT	4.7uF	20%	50V	
					C13	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
					C14	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
					(MX)						
					(E41,SP)						
< RESISTOR >					C14	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
R101	1-216-835-11	METAL CHIP	15K	5%	1/10W	(MX)					
R102	1-216-807-11	METAL CHIP	68	5%	1/10W	C15	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R103	1-216-843-11	METAL CHIP	68K	5%	1/10W	(E41,SP)					
R104	1-216-835-11	METAL CHIP	15K	5%	1/10W	C15	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
R105	1-216-835-11	METAL CHIP	15K	5%	1/10W	(MX)					
R106	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C18	1-126-923-11	ELECT	220uF	20%	10V
R110	1-216-809-11	METAL CHIP	100	5%	1/10W	C20	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R111	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C21	1-126-960-11	ELECT	1uF	20%	50V
R112	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	C22	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R201	1-216-835-11	METAL CHIP	15K	5%	1/10W	C23	1-126-960-11	ELECT	1uF	20%	50V
R202	1-216-807-11	METAL CHIP	68	5%	1/10W	C24	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
R203	1-216-843-11	METAL CHIP	68K	5%	1/10W	C26	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
R204	1-216-835-11	METAL CHIP	15K	5%	1/10W	C27	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
R205	1-216-835-11	METAL CHIP	15K	5%	1/10W	C29	1-104-658-11	ELECT	100uF	20%	10V
R206	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C30	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R210	1-216-025-11	RES-CHIP	100	5%	1/10W	C31	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
R211	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C32	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

CFD-RS60CP

TUNER

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C33	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	JC4	1-216-864-11	SHORT CHIP	0		
C34	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	JC5	1-216-864-11	SHORT CHIP	0		
C35	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	JC6	1-216-864-11	SHORT CHIP	0		
C37	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	JC11	1-216-864-11	SHORT CHIP	0		
C39	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	JC12	1-216-864-11	SHORT CHIP	0		
C41	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	JC13	1-216-864-11	SHORT CHIP	0		
C42	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	JC24	1-216-864-11	SHORT CHIP	0 (E41,SP)		
C43	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	JC33	1-216-864-11	SHORT CHIP	0		
C47	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	JC34	1-216-864-11	SHORT CHIP	0		
C49	1-161-051-00	CERAMIC	0.01uF	10%	25V			< COIL >			
C51	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	L1	1-409-775-11	COIL, AIR-CORE			
C52	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	L2	1-416-509-11	COIL, AIR-CORE			
C53	1-137-190-11	FILM	0.22uF	5%	50V	L3	1-754-117-12	ANTENNA, FERRITE-ROD (AM)			
C54	1-126-923-11	ELECT	220uF	20%	10V	L4	1-411-234-21	COIL, AM OSC			
C55	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	L11	1-414-142-11	INDUCTOR	1uH (MX)		
C56	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	L21	1-410-509-11	INDUCTOR	10uH		
C57	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V			< RESISTOR >			
C59	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R1	1-216-817-11	METAL CHIP	470	5%	1/10W
C60	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	R2	1-216-817-11	METAL CHIP	470	5%	1/10W
C61	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R3	1-216-833-11	METAL CHIP	10K	5%	1/10W
C62	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R4	1-216-833-11	METAL CHIP	10K	5%	1/10W
C63	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R5	1-216-821-11	METAL CHIP	1K	5%	1/10W
C65	1-126-963-11	ELECT	4.7uF	20%	50V	R10	1-216-805-11	METAL CHIP	47	5%	1/10W
C66	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R11	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
C68	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R13	1-216-821-11	METAL CHIP	1K	5%	1/10W
C77	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V (E41,SP)	R14	1-216-821-11	METAL CHIP	1K	5%	1/10W
C78	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V (E41,SP)	R24	1-216-813-11	METAL CHIP	220	5%	1/10W
C80	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	R30	1-216-837-11	METAL CHIP	22K	5%	1/10W
C95	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	R31	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
		< FILTER >				R32	1-216-845-11	METAL CHIP	100K	5%	1/10W
CF2	1-760-235-81	FILTER, CERAMIC				R33	1-216-833-11	METAL CHIP	10K	5%	1/10W
CF4	1-781-962-21	FILTER, CERAMIC				R40	1-216-849-11	METAL CHIP	220K	5%	1/10W
		< CONNECTOR >				R41	1-216-833-11	METAL CHIP	10K	5%	1/10W
CNP1	1-568-854-11	CONNECTOR, FFC 11P				R50	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< TRIMMER >				R51	1-216-833-11	METAL CHIP	10K	5%	1/10W
CT1	1-141-442-91	CAP, CERAMIC TRIMMER 20PF				R52	1-216-864-11	SHORT CHIP	0		
CT3	1-141-304-21	CAP, CERAMIC TRIMMER 10PF				R53	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
		< DIODE >				R54	1-216-817-11	METAL CHIP	470	5%	1/10W
D1	8-719-078-48	DIODE KV1471ETR-G				R55	1-216-833-11	METAL CHIP	10K	5%	1/10W
D2	8-719-078-48	DIODE KV1471ETR-G				R56	1-216-813-11	METAL CHIP	220	5%	1/10W
D3	8-719-050-69	DIODE KV1520N				R57	1-216-809-11	METAL CHIP	100	5%	1/10W
D10	8-719-988-61	DIODE 1SS355TE-17				R58	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
D11	8-719-988-61	DIODE 1SS355TE-17				R59	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< IC >				R60	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
IC1	6-700-512-01	IC TA2149BN				R61	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
IC2	8-759-483-40	IC LC72137M-TLM-E				R63	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< JUMPER RESISTOR >				R65	1-216-833-11	METAL CHIP	10K	5%	1/10W
JC1	1-216-864-11	SHORT CHIP	0			R91	1-216-813-11	METAL CHIP	220	5%	1/10W
JC2	1-216-864-11	SHORT CHIP	0			R92	1-216-813-11	METAL CHIP	220	5%	1/10W
JC3	1-216-864-11	SHORT CHIP	0			R94	1-216-821-11	METAL CHIP	1K	5%	1/10W
								< TRANSFORMER >			
						T1	1-433-741-11	TRANSFORMER, IF			
						T2	1-419-465-11	COIL (DET)			

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
< VIBRATOR >						R903	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
X1	1-795-449-11	VIBRATOR, CRYSTAL (75kHz)	*****			R904	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
						R905	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
						R906	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
						R907	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
						A-1317-463-A USB BOARD, COMPLETE					
*****						R913	1-216-845-11	METAL CHIP	100K	5%	1/10W
< CAPACITOR >						R915	1-216-833-11	METAL CHIP	10K	5%	1/10W
C901	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R916	1-216-864-11	SHORT CHIP	0		
C902	1-124-779-00	ELECT CHIP	10uF	20%	16V	R917	1-216-864-11	SHORT CHIP	0		
C903	1-124-779-00	ELECT CHIP	10uF	20%	16V	R919	1-216-809-11	METAL CHIP	100	5%	1/10W
C904	1-124-779-00	ELECT CHIP	10uF	20%	16V	R920	1-216-833-11	METAL CHIP	10K	5%	1/10W
C905	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R921	1-216-845-11	METAL CHIP	100K	5%	1/10W
C906	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R922	1-216-845-11	METAL CHIP	100K	5%	1/10W
C907	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R923	1-216-802-11	METAL CHIP	27	5%	1/10W
C908	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R924	1-216-802-11	METAL CHIP	27	5%	1/10W
C909	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	R925	1-216-835-11	METAL CHIP	15K	5%	1/10W
C910	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	R926	1-216-835-11	METAL CHIP	15K	5%	1/10W
C912	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	R928	1-216-864-11	SHORT CHIP	0		
C913	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R932	1-216-809-11	METAL CHIP	100	5%	1/10W
C914	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R933	1-216-864-11	SHORT CHIP	0		
C915	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R934	1-216-833-11	METAL CHIP	10K	5%	1/10W
C916	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R937	1-216-809-11	METAL CHIP	100	5%	1/10W
C917	1-100-354-21	ELECT CHIP	220uF	20%	6.3V	R938	1-216-809-11	METAL CHIP	100	5%	1/10W
C918	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	R941	1-216-845-11	METAL CHIP	100K	5%	1/10W
C919	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R942	1-216-845-11	METAL CHIP	100K	5%	1/10W
C920	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R943	1-216-845-11	METAL CHIP	100K	5%	1/10W
C921	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R944	1-216-845-11	METAL CHIP	100K	5%	1/10W
C922	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	R945	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
C930	1-216-864-11	SHORT CHIP	0			R947	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
< CONNECTOR >						R950	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
CN901	1-770-160-21	PIN, CONNECTOR (PC BOARD) 2P				R970	1-216-809-11	METAL CHIP	100	5%	1/10W
CN903	1-779-993-11	PIN, CONNECTOR (PWB) 5P				R971	1-216-809-11	METAL CHIP	100	5%	1/10W
CN904	1-784-859-51	CONNECTOR, FFC (LIF(NON-ZIF)) 7P				R972	1-216-809-11	METAL CHIP	100	5%	1/10W
CN907	1-784-833-51	CONNECTOR, FFC (LIF(NON-ZIF)) 21P				R973	1-216-809-11	METAL CHIP	100	5%	1/10W
< DIODE >						R974	1-216-809-11	METAL CHIP	100	5%	1/10W
D903	8-719-978-33	DIODE DTZ-TT11-6.8B				R975	1-216-809-11	METAL CHIP	100	5%	1/10W
D904	8-719-978-33	DIODE DTZ-TT11-6.8B				R976	1-216-809-11	METAL CHIP	100	5%	1/10W
D905	6-501-579-01	DIODE MC2837				R977	1-216-809-11	METAL CHIP	100	5%	1/10W
< JUMPER RESISTOR >						R978	1-216-809-11	METAL CHIP	100	5%	1/10W
FB901	1-216-295-11	SHORT CHIP	0			R979	1-216-809-11	METAL CHIP	100	5%	1/10W
FB902	1-216-295-11	SHORT CHIP	0			R981	1-216-809-11	METAL CHIP	100	5%	1/10W
< IC >						R982	1-216-809-11	METAL CHIP	100	5%	1/10W
IC901	6-807-284-01	IC TMP92CD28AFG-2CB4				R983	1-216-809-11	METAL CHIP	100	5%	1/10W
IC915	6-710-887-01	IC R5523N001B-TR-F				R984	1-216-809-11	METAL CHIP	100	5%	1/10W
IC921	6-704-832-01	IC IS61LV6416-10TLT				R985	1-216-809-11	METAL CHIP	100	5%	1/10W
< JUMPER RESISTOR >						R986	1-216-809-11	METAL CHIP	100	5%	1/10W
JR902	1-216-295-11	SHORT CHIP	0			< NETWORK RESISTOR >					
< RESISTOR >						RB921	1-234-944-21	RES, NETWORK 47X4 (1005)			
R901	1-216-833-11	METAL CHIP	10K	5%	1/10W	RB922	1-234-944-21	RES, NETWORK 47X4 (1005)			
R902	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	RB923	1-234-944-21	RES, NETWORK 47X4 (1005)			
< VIBRATOR >						RB924	1-234-944-21	RES, NETWORK 47X4 (1005)			
X901	1-813-931-21	VIBRATOR, CRYSTAL (9MHz)				< VIBRATOR >					

CFD-RS60CP

USB CONNECT VOL

Ref. No.	Part No.	Description	Remark			
	A-1317-475-A	USB CONNECT BOARD, COMPLETE	*****			
		< CAPACITOR >				
C1003	1-135-834-11	CERAMIC CHIP	2.2uF		6.3V	
		< DIODE >				
D1003	8-719-978-33	DIODE	DTZ-TT11-6.8B			
D1004	8-719-978-33	DIODE	DTZ-TT11-6.8B			
		< FERRITE BEAD >				
FB1003	1-414-233-22	INDUCTOR, FERRITE BEAD				
FB1004	1-414-233-22	INDUCTOR, FERRITE BEAD				
		< COIL >				
L1001	1-456-799-11	COIL, COMMON MODE CHOKE				
		< CONNECTOR >				
J1001	1-794-548-21	CONNECTOR, USB (A)				

	A-1317-465-A	VOL BOARD, COMPLETE	*****			
		< CAPACITOR >				
C152	1-126-160-11	ELECT	1uF	20%	50V	
C153	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C154	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C155	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C156	1-126-163-11	ELECT	4.7uF	20%	50V	
C157	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C158	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C159	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C160	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C161	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
C162	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C252	1-126-160-11	ELECT	1uF	20%	50V	
C253	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C254	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C255	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C256	1-126-163-11	ELECT	4.7uF	20%	50V	
C257	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C258	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C259	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C260	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
C261	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	
C262	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C351	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C352	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C353	1-124-261-11	ELECT	10uF	20%	10V	
C354	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C355	1-125-972-11	ELECT	100uF	20%	16V	
		< CONNECTOR >				
CN351	1-815-558-11	PIN, CONNECTOR (PWB) 10P				

Ref. No.	Part No.	Description	Remark			
		< IC >				
IC351	6-710-289-01	IC R2S15904SP				
		< JUMPER RESISTOR >				
JC351	1-216-864-11	SHORT CHIP	0			
		< COIL >				
L351	1-410-509-11	INDUCTOR	10uH			
		< RESISTOR >				
R151	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R153	1-216-853-11	METAL CHIP	470K	5%	1/10W	
R154	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R155	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R251	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R253	1-216-853-11	METAL CHIP	470K	5%	1/10W	
R254	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R255	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R351	1-216-809-11	METAL CHIP	100	5%	1/10W	
R352	1-216-809-11	METAL CHIP	100	5%	1/10W	
R353	1-216-809-11	METAL CHIP	100	5%	1/10W	
R354	1-216-809-11	METAL CHIP	100	5%	1/10W	
R355	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R356	1-216-833-11	METAL CHIP	10K	5%	1/10W	

MISCELLANEOUS						

104	1-832-404-21	CABLE, FLEXIBLE FLAT (16 CORE)				
105	1-832-644-21	CABLE, FLEXIBLE FLAT (27 CORE)				
111	1-452-899-11	MAGNET				
△ 115	8-820-126-02	OPTICAL PICK-UP (KSM-213CDP/C2NP)				
165	1-500-868-11	CORE, FERRITE				
206	1-832-824-21	CABLE, FLEXIBLE FLAT (11 CORE)				
211	1-832-611-21	CABLE, FLEXIBLE FLAT (21 CORE)				
218	1-500-868-11	CORE, FERRITE				
253	1-832-833-21	CABLE, FLEXIBLE FLAT (13 CORE)				
ANT1	1-754-376-11	ANTENNA, TELESCOPIC (FM)				
C309	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
△ F951	1-532-465-33	FUSE (3.15A/250V)				
HE301	1-500-813-11	HEAD, ERASE (ERASE)				
HRP301	3-266-053-01	HEAD, RP (REC/PB)				
△ J951	1-526-838-11	INLET, AC 2P (∼ AC IN) (E41,SP)				
△ J951	1-540-009-11	INLET, AC (∼ AC IN) (MX)				
S201	1-771-853-11	SWITCH, DETECTION (LIMIT)				
S801	1-692-960-11	SWITCH, PUSH (1 KEY)				
(▲ PUSH OPEN/CLOSE)						
SP301	1-825-690-11	SPEAKER (DIA. 10cm) (L-CH)				
SP302	1-825-690-11	SPEAKER (DIA. 10cm) (R-CH)				
△ T951	1-445-291-11	TRANSFORMER, POWER (MX)				
△ T951	1-445-292-11	TRANSFORMER, POWER (E41,SP)				

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
		ACCESSORIES	

△	1-769-412-22	CORD, POWER (E41,SP)	
△	1-834-027-11	CORD, POWER (MX)	
	3-267-151-11	BATTERY, LID (for RMT-CRS60A)	
	3-268-767-11	MANUAL, INSTRUCTION (ENGLISH) (E41,MX)	
	3-268-767-21	MANUAL, INSTRUCTION (SPANISH) (MX)	
	3-268-767-31	MANUAL, INSTRUCTION (SPANISH) (E41)	
	3-268-767-41	MANUAL, INSTRUCTION (ENGLISH) (SP)	
	3-268-767-51	MANUAL, INSTRUCTION (SPANISH) (SP)	
	A-1317-437-A	REMOTE COMMANDER (RMT-CRS60A)	

REVISION HISTORY

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