

CFD-G700CP/G770CP/ G770CPK

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SERVICE MANUAL

Ver. 1.0 2007.03



Photo : CFD-G770CPK

US Model

CFD-G700CP

Canadian Model

CFD-G770CPK

E Model

CFD-G770CP/G770CPK

Australian Model

CFD-G770CPK

CD Section	Model Name Using Similar Mechanism	CFD-G505/G555CP/G555CPK
	CD Mechanism Type	KSM-213CDP/C2NP
	Optical Pick-up Type	KSS-213C
TAPE Section	Model Name Using Similar Mechanism	HCD-EC50
	Tape Transport Mechanism Type	H21SB-C05

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 3.2-ohm loads, both channels driven from 1 000 - 10 000 Hz; rated 3 W per channel-minimum RMS power, with no more than 10 % total harmonic distortion in AC operation.

Woofer with 4-ohm loads, driven from 50 - 150 Hz; rated 6 W minimum RMS power, with no more than 10 % total harmonic distortion in AC operation.

Other specifications

CD player section

System

Compact disc digital audio system

Laser diode properties

Emission duration: Continuous

Laser output: Less than 44.6 μ W

(Th is 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.)

Number of channels

2

Frequency response

20 - 20 000 Hz +1/-2 dB

Wow and fl utter

Below measurable limit

• Abbreviation

AUS	: Australian model	E92	: AC 120V area in E model
CND	: Canadian model	MX	: Mexican model
E41	: AC 230V area in E model	SP	: Singapore model

Radio section

Frequency range

FM: 87.5 - 108 MHz

AM: 530 - 1 710 kHz

(G700CP: US/G770CPK: CND, MX, E92)

AM: 531 - 1 611 kHz (G770CPK: AUS)

AM: 531 - 1 611 kHz (9 kHz step)(G770CP)

AM: 530 - 1 610 kHz (10 kHz step)(G770CP)

Antennas

FM: Telescopic antenna

AM: Built-in ferrite bar antenna

Cassette-corder section

Recording system

4-track 2 channel stereo

Fast winding time

Approx. 150 s (sec.) with Sony cassette C-60

Frequency response

TYPE I (normal): 70 - 13 000 Hz

General

Speaker

Full range: 10 cm (4 in.) dia., 3.2 Ω , cone type (2)

Woofer: 13 cm (5 1/8 in.) dia., 4 Ω , cone type (1)

Tweeter: 2 cm (13/16 in.) dia. (2)

Input

Built-in audio cable with stereo-mini plug:

Minimum input level 245 mV

AUDIO IN Jack (stereo minijack):

Minimum input level 245 mV

MIC MIX (microphone) jack (monaural minijack):

Sensitivity 2.5 mV, for low impedance microphone

Minimum input level 2.5 mV (G770CPK)

Outputs

Headphones jack (stereo minijack)

For 16 - 68 Ω impedance headphones

Power output

4 W + 4 W (at 3.2 Ω , 10% harmonic distortion)

Woofer:

12 W (at 4 Ω , 10% harmonic distortion)

Power requirements

For CD radio cassette-corder:

120 V AC, 60 Hz

(G700CP: US/G770CPK: CND, MX, E92)

230 - 240 V AC, 50 Hz (G700CP: SP)

230 V AC, 50 Hz

(G700CP: E41/G770CPK: AUS)

12 V DC, 8 R20 (size D) batteries

For remote control:

3 V DC, 2 R6 (size AA) batteries

Power consumption

AC 28 W

— Continued on next page —

CD RADIO CASSETTE-CORDER

SONY®

9-887-620-01

2007C16-1

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Sony Corporation

Personal Audio Division

Published by Sony Techno Create Corporation

Battery life

For CD radio cassette-corder:

FM recording

Sony R20P: approx. 6 h

Sony alkaline LR20: approx. 18 h

Tape playback

Sony R20P: approx. 1.5 h

Sony alkaline LR20: approx. 6 h

CD playback

Sony R20P: approx. 1 h

Sony alkaline LR20: approx. 4 h

Dimensions

Approx. 551 × 247 × 370 mm (w/h/d)

(21 ³/₄ × 9 ³/₄ × 14 ⁵/₈ inches) (incl. projecting parts)

Mass

Approx. 8.4 kg (18 lb. 9 oz) (incl. batteries)

Supplied accessories

AC power cord (1)

Remote control (1)

Design and specifications are subject to change without notice.

Notes on chip component replacement

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

Flexible Circuit Board Repairing

- Keep the temperature of 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.

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)

**: LEAD FREE MARK**

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350 °C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

SAFETY-RELATED COMPONENT WARNING!!

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

ATTENTION AU COMPOSANT AYANT RAPPORT
À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE $\triangle$ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM- POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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SECTION 1

SERVICING NOTES

SAFETY CHECK-OUT

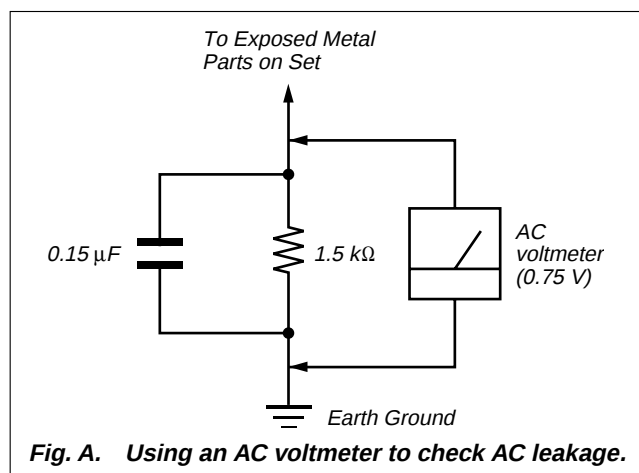
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

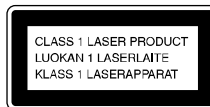
LEAKAGE TEST

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

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



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



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

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

The laser diode in the optical pick-up block may suffer electrostatic 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.

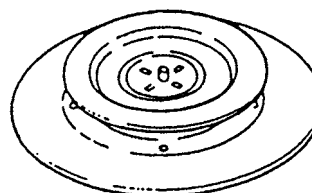
NOTES ON LASER DIODE EMISSION CHECK

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 more than 30 cm away from the objective lens.

CHUCK PLATE JIG ON REPAIRING

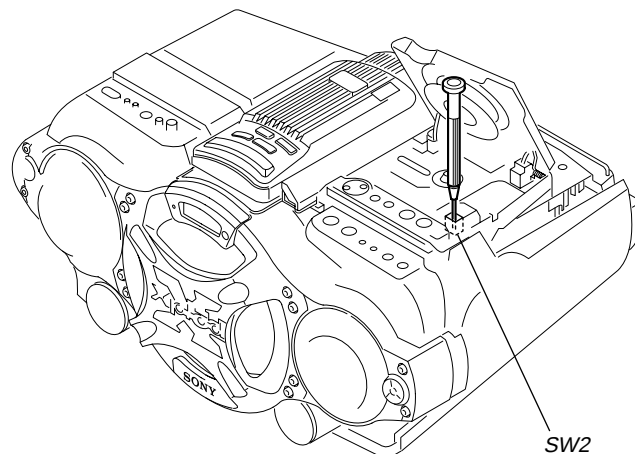
On repairing CD section, playing a disc without the CD lid, use Chuck Plate Jig.

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



LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Turn ON the **POWER** button.
2. Open the CD lid.
3. Turn on SW2 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 three times for focus search.



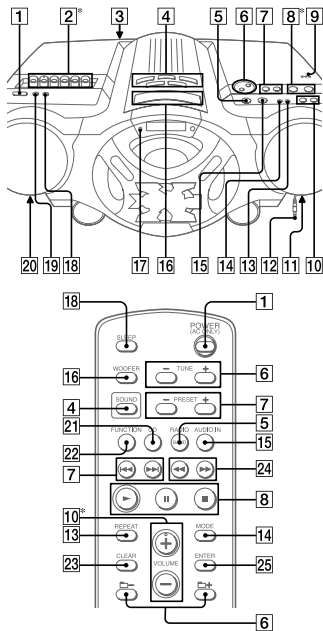
SECTION 2

GENERAL

This section is extracted
from instruction manual.

CFD-G700CP (1/2)

Basic Operations



* VOL + (VOLUME + on the remote) [10], [11] [8] and [2] (on the unit) have a tactile dot.

Before using the unit

To turn on/off the power

Press POWER [1].

To adjust the volume

Press VOL +, - (VOLUME +, - on the remote) [10].

To listen through headphones

Connect the headphones to the [headphones] jack [20].

To select the sound characteristic

Press ROCK, DANCE, SALSA, REGGAETON or FLAT [4] to select the kind of audio emphasis that you want. (On the remote, press SOUND [4] repeatedly.)

To reinforce the bass sound

Press POWER DRIVE WOOFER (WOOFER on the remote) [16] to select **WOOFER A** or **WOOFER B** on the display. **WOOFER B** is more effective. When the WOOFER function works, the ring on the front panel lights up.

To return to normal sound, press the button repeatedly until the indication disappears from the display.

Notes

- While the sleeping timer is on, the ring does not light, even if the WOOFER function is used.
- When you use the headphones, the WOOFER function does not work.

Playing a CD/MP3 disc

- Press [PUSH OPEN/CLOSE] [9] 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] [9] on the unit.

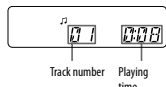


- Press [PAUSE/STOP] [8] on the unit (▶ on the remote) [8].

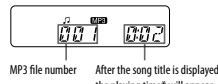
The unit plays all the tracks/MP3 files once.

When you place MP3 discs, "MP3" appears in the display after the unit reads the file information.

Audio CD



MP3 disc



* If the playing time is more than 100 minutes, it appears "----" in the display.

To	Press
Pause playback	[PAUSE/STOP] [8] on the unit ([II] on the remote) [8]. To resume play, press it again.
Stop playback	[STOP] [8].
Go to the next track/MP3 file	[NEXT] [7].
Go back to the previous track/MP3 file	[PREV] [7].
Select a folder on an MP3 disc	[FOLDER] [6] + to go forward and [FOLDER] [6] - to go backward [6].
Locate a point while listening to the sound	[FF] (forward) or [REW] (backward) [7] while playing and hold it until you find the point. ([FF] or [REW] [24] on the remote)
Locate a point while observing the display	[FF] (forward) or [REW] (backward) [7] in pause and hold it until you find the point. ([FF] or [REW] [24] on the remote)
Remove the CD	[PUSH OPEN/CLOSE] [9].

Tips

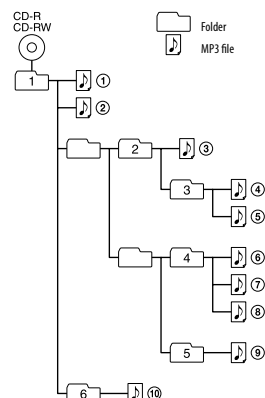
- Playback starts from the track/MP3 file you last stopped playing (Resume play). During stop, the track/MP3 file number to be played is displayed.
- To cancel the resume play (to start play from the beginning of the first track/MP3 file), press [STOP] [8] while the CD is stopped. When you open the CD compartment or turn off the unit, the resume play is also canceled.

Note

You cannot locate a specific track if "SHUF" or "PGM" is lit in the display. Press [8], and then press MODE [14] repeatedly until "SHUF" and "PGM" disappear from the display.

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 start play. We recommend that you do not save unnecessary folders or files other than MP3 ones in the disc to be used for MP3 listening.
- A folder that does not include an MP3 file is skipped.
- Maximum number of files: 255
- Maximum number of folders: 150 (including the root folder)
- Maximum number of folders and files in total: 256
- Maximum directory levels: 8
- Folder names and file names can be displayed with up to 30 characters including quotation marks.
- The characters A - Z, 0 - 9, and _ can be displayed on this unit. Other characters are displayed as "-".
- This unit conforms to Version 1.0, 1.1, 2.2, 2.3 and 2.4 of the ID3 tag format. When the file has the ID3 tag information, "song title", "artist name" and "album name" can be displayed. If the file does not have the ID3 tag information, "NO TITLE" appears instead of song title, "NO ARTIST" appears instead of artist name and "NO ALBUM" appears instead of album name. The ID3 tag information can be displayed with up to 15 characters.
- 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/BAND•AUTO PRESET [5] on the unit (RADIO/BAND [5] on the remote) repeatedly.

Each time you press the button, the indication changes as follows:

"FM" → "AM"

- Hold down [TUNE +] or [TUNE -] [6] 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 [TUNE -] [6] repeatedly to change the frequency step by step. When an FM stereo broadcast is received, "ST" appears.

Tip

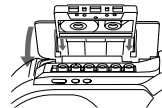
If the FM broadcast is noisy, press MODE [14] until "Mono" appears in the display and the radio will play in monaural.

Playing a tape

Use buttons on the unit for the operation.

- Press [TAPE] [2] on the unit, and insert the tape into the tape compartment with the side you want to play facing upward. 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 [PLAY] [2] on the unit.

The unit starts playing.

To	Press
Pause playback	[PAUSE/STOP] [8] on the unit. To resume play, press it again.
Stop playback	[STOP] [8] on the unit.
Fast-forward or rewind*	[FF] or [REW] [2] (rewind or fast forward) [2] on the unit.
Eject the cassette	[EJECT] [2] on the unit.

* When the tape is wound to the end, press [FF] [2] to release [FF] or [REW] [2].

CFD-G700CP (2/2)

Other Operations

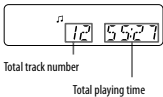
Using the display

You can check information about the CD using the display.

Checking the information of an audio CD

To check the total track number and playing time of the CD

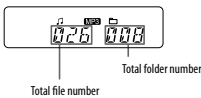
Press **■** **[8]** while the CD is stopped, and you can check them in the display.



Checking the information of an MP3 disc

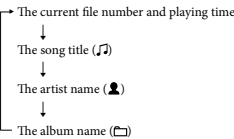
To check the total folder number and total file number on the CD

Press **■** **[8]** while the CD is stopped, and you can check them in the display.



To check file information

Press DSPL/ENT **[19]** on the unit while playing an MP3 disc. The display changes as follows:



Playing tracks/MP3 files repeatedly

(Repeat Play)

You can play tracks/MP3 files repeatedly in normal, Shuffle or Program play modes.

- 1 Press **■** **[8]**.
"CD" appears in the display.
- 2 Proceed as follows.

To repeat	Do this
A single track/MP3 file	1 Press REPEAT [13] until "☞ 1" appears. 2 Press ◀◀ or ▶▶ [7] to select the track/MP3 file that you want to repeat. 3 Press ▶◀ [8] on the unit.
All tracks/MP3 files on the CD	1 Press REPEAT [13] until "☞" appears. 2 Press ▶◀ [8] on the unit.
A selected folder (MP3 disc only)	1 Press MODE [14] until "□" appears, and then press REPEAT [13] until "☞" appears. 2 Select the folder by pressing ◀ or ▶ [6] . 3 Press ▶◀ [8] on the unit.
Tracks/MP3 files in random order	1 Select Shuffle Play (see "Playing tracks/MP3 files in random order"). 2 Press REPEAT [13] until "SHUF" and "☞" appear. 3 Press ▶◀ [8] on the unit.
Files in a selected folder in random order (MP3 disc only)	1 Start Folder Shuffle Play (see "Playing tracks/MP3 files in random order"). 2 Press REPEAT [13] on the unit until "☞", "SHUF" and "□" appear. 3 Press ▶◀ [8] on the unit.
Programed tracks/MP3 files	1 Program tracks/MP3 files (see "Creating your own program"). 2 Press REPEAT [13] until "☞" and "PGM" appear. 3 Press ▶◀ [8] on the unit.

On the remote

Use **▶◀** **[8]** instead of **▶◀** **[8]**.

To cancel Repeat Play

Press REPEAT **[13]** until "☞" disappears from the display.

Playing tracks/MP3 files in random order (Shuffle Play)

You can play tracks/MP3 files in random order. When playing an MP3 disc, you can also play MP3 files in a selected folder in random order (Folder Shuffle Play).

- 1 Press **■** **[8]**.
"CD" appears in the display.
- 2 Press MODE **[14]** until "SHUF" appears in the display.
When you select Folder Shuffle Play (MP3 disc only), press MODE **[14]** on the unit until "□" and "SHUF" appear in the display. Then press **◀** TUNE + or - **[6]** on the unit to select a folder you want.
- 3 Press **▶◀** **[8]** on the unit to start Shuffle Play.

On the remote

Use **▶◀** **[8]** instead of **▶◀** **[8]**.

To cancel Shuffle Play

Stop playing first. Then press MODE **[14]** until "SHUF" disappears from the display.

- Tips**
 - During Shuffle Play, you cannot select the previous track/MP3 file by pressing **◀◀** **[7]**.
 - The resume function does not work during Shuffle Play.

Creating your own program (Program Play)

You can arrange the playing order of up to 15 tracks/MP3 files on a CD.

- 1 Press **■** **[8]**.
"CD" appears in the display.
- 2 Press MODE **[14]** until "PGM" flashes in the display.
- 3 Press **◀◀** or **▶▶** **[7]** then press DSPL/ENT **[19]** on the unit (ENTER **[25]** on the remote) for the tracks/MP3 files you want to program in the order you want. For MP3 files, press **◀** TUNE + or - **[6]** first and then press **◀◀** or **▶▶** **[7]** and DSPL/ENT **[19]** (ENTER **[25]** on the remote).

Audio CD (Program Play)



MP3 disc (Program Play)



- 4 Press **▶◀** **[8]** on the unit to start Program Play.

On the remote

Use **▶◀** **[8]** instead of **▶◀** **[8]**.

To cancel Program Play

Stop playing first. Then press MODE **[14]** until "PGM" disappears from the display.

To delete the last track or file of the program

Press CLEAR **[23]** on the remote while the unit is stopped.

To check the order of tracks/MP3 files before play

Press DSPL/ENT **[19]** on the unit. Every time you press the button, the track number and the playing order appear.

To change the current program

Press **■** **[8]** once if the CD is stopped and twice if the CD is playing. The current program will be erased. Then create a new program following the programming procedure.

- Tips**
 - If you try to program 16 tracks/MP3 files or more, "FULL" will appear in the display.
 - You can play the same program again, since the program is saved until you open the CD compartment or turn off the power of the unit.
 - You can record your own program. After you have created the program, insert a blank tape and press **●** **[2]** on the unit to start recording.
 - The resume function does not work during Program Play.

Presetting radio stations

You can store radio stations into the unit's memory. You can preset up to 30 radio stations, 20 for FM and 10 for AM in any order.

- 1 Press RADIO/BAND•AUTO PRESET **[5]** on the unit to select the band.
- 2 Hold down RADIO/BAND•AUTO PRESET **[5]** on the unit for 2 seconds until "AUTO" flashes in the display.
- 3 Press DSPL/ENT **[19]** on the unit.
The stations are stored in memory from the lower frequencies to the higher ones.

If a station cannot be preset automatically

You need to preset a station with a weak signal manually.

- 1 Press RADIO/BAND•AUTO PRESET **[5]** on the unit to select the band.
- 2 Tune in a station you want.
- 3 Hold down DSPL/ENT **[19]** on the unit for 2 seconds until the preset number flashes in the display.
- 4 Press PRESET + or - **[7]** on the unit until the preset number you want for the station flashes in the display.
- 5 Press DSPL/ENT **[19]** on the unit.
The new station replaces the old one.

On the remote

- 1 Press RADIO/BAND **[5]** until the band you want appears in the display.
- 2 Tune in a station you want.
- 3 Hold down ENTER **[25]** for 2 seconds until the preset number flashes in the display.
- 4 Press PRESET + or - **[7]** until the preset number you want for the station flashes in the display.
- 5 Press ENTER **[25]**.

Tip

The preset radio stations remain in memory even if you unplug the AC power cord or remove the batteries.

Playing preset radio stations

- 1 Press RADIO/BAND•AUTO PRESET **[5]** on the unit to select the band.
- 2 Press PRESET + or - **[7]** on the unit to tune in the stored station.

On the remote

- 1 Press RADIO/BAND **[5]**.
- 2 Press PRESET + or - **[7]** to tune in the stored station.

Falling asleep to music

- 1 Play the music source you want.
- 2 Press SLEEP **[18]** to display "SLEEP".

- 3 Press SLEEP **[18]** to select the minutes until the unit goes off automatically.

Each time you press the button, the indication changes as follows:

"AUTO" → "60MIN" → "30MIN" → "20MIN" → "10MIN" → "OFF".

* When you select "AUTO", the CD or tape stops playing in 90 minutes at most and the unit goes off automatically. When you are listening to the radio, the radio goes off in 90 minutes.

If 4 seconds have passed after you pressed SLEEP **[18]**, the minutes in the display are entered.

When the preset time has passed, the unit goes off automatically.

To cancel the sleep function

Press POWER **[1]** to turn off the power.

Note

When you are playing a tape using this function:

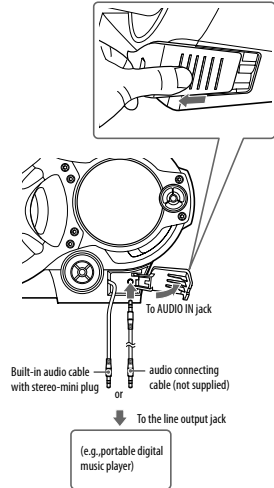
If the tape length of one side is longer than the set time, the unit will not go off until the tape reaches the end.

Connecting optional component

You can enjoy the sound from an optional component such as a portable digital music player through the speakers of this unit.

Be sure to turn off the power of each component before making any connections.

For details, refer to the instruction manual of the component to be connected.



- 1 Connect the built-in audio cable with stereo-mini plug **[12]** on the unit to the line output jack of the portable digital music player or other components*.

- 2 Turn the unit and the connected component on.
- 3 Press AUDIO IN **[14]** on the unit and start playing sound on the connected component.
The sound from the connected component is output from the speakers.

* To connect the unit to a TV or VCR, use an extension cable (not supplied) with a stereo-mini jack on one end (for the built-in audio cable) and two phono plugs on the other end.

Recording the sound from the connected component

- 1 Insert a blank tape.
- 2 Press AUDIO IN **[14]** on the unit to display "AUDIO IN".
- 3 Press **●** **[2]** on the unit.
Recording starts.
- 4 Play the optional component connected to the unit.

Tip

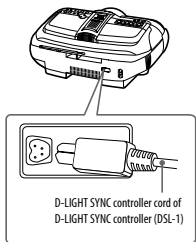
Should the built-in audio cable **[12]** become damaged, you can use the AUDIO IN jack **[11]** to connect an optional component to the unit. Use an audio connecting cable (not supplied) with a stereo mini plug on one end (for the AUDIO IN jack **[11]**). Make sure the plug on the other end is suited to the jack on the optional component; for example, a stereo-mini plug for a portable digital music player, or two phono plugs for a TV or VCR.

Notes

- Do not pull forcibly on the built-in audio cable **[12]**. Doing so may cause the plug to rip off.
- Connect the built-in audio cable **[12]** or audio connecting cable (not supplied) securely to prevent any malfunction.
- It is not possible to listen to two components connected at the same time through the built-in audio cable **[12]** and the AUDIO IN jack **[11]** (using an optional audio connecting cable). Connect one component at a time.

D-LIGHT SYNC OUT jack

Use the D-LIGHT SYNC controller to connect to this D-LIGHT SYNC OUT jack **[3]**. You need to connect the D-LIGHT SYNC controller to the lighting device* (not supplied). The lighting device will react according to control signals transmitted by the D-LIGHT SYNC controller upon receiving music source from the system. For details on the use of D-LIGHT SYNC controller and lighting device, refer to the respective operating instructions supplied with the respective device.



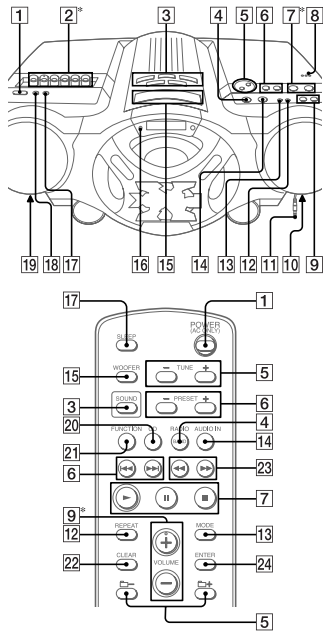
* Refer to the D-LIGHT SYNC controller operating instruction for the recommended lighting device.

Note

The lighting effect may be different depending on the connected lighting device or the type of music being played back.

CFD-G770CP (1/2)

Basic Operations



* VOL + (VOLUME + on the remote) [9], [11] [7] and [2] (on the unit) have a tactile dot.

Before using the unit

To turn on/off the power

Press POWER [1].

To adjust the volume

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

To listen through headphones

Connect the headphones to the (headphones) jack [19].

To select the sound characteristic

Press ROCK, DANCE, SALSA, REGGAETON or FLAT [3] to select the kind of audio emphasis that you want. (On the remote, press SOUND [3] repeatedly.)

To reinforce the bass sound

Press POWER DRIVE WOOFER (WOOFER on the remote) [15] to select **WOOFER A** or **WOOFER B** on the display. **WOOFER B** is more effective. When the WOOFER function works, the ring on the front panel lights up. To return to normal sound, press the button repeatedly until the indication disappears from the display.

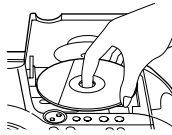
Notes

- While the sleeping timer is on, the ring does not light, even if the WOOFER function is used.
- When you use the headphones, the WOOFER function does not work.

Playing a CD/MP3 disc

- 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.

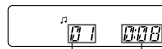


- Press **II** [7] on the unit (▶ on the remote) [7].

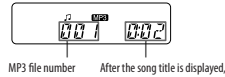
The unit plays all the tracks/MP3 files once.

When you place MP3 discs, "MP3" appears in the display after the unit reads the file information.

Audio CD



MP3 disc



* If the playing time is more than 100 minutes, it appears "----" in the display.

To	Press
Pause playback	II [7] on the unit (II on the remote) [7]. To resume play, press it again.
Stop playback	■ [7].
Go to the next track/MP3 file	▶▶ [6].
Go back to the previous track/MP3 file	◀◀ [6].
Select a folder on an MP3 disc	⏏ + to go forward and ⏏ - to go backward [5].
Locate a point while listening to the sound	▶▶ [6] (forward) or ◀◀ [6] (backward) while playing and hold it until you find the point. (◀◀ or ▶▶ [23] on the remote)
Locate a point while observing the display	▶▶ [6] (forward) or ◀◀ [6] (backward) in pause and hold it until you find the point. (◀◀ or ▶▶ [23] on the remote)
Remove the CD	PUSH OPEN/CLOSE [8].

Tips

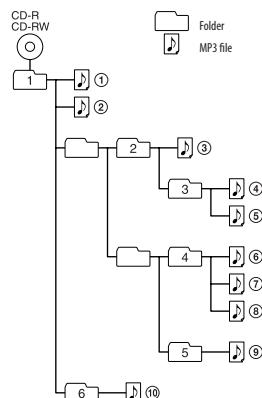
- Playback starts from the track/MP3 file you last stopped playing (Resume play). During stop, the track/MP3 file number to be played is displayed.
- To cancel the resume play (to start play from the beginning of the first track/MP3 file), press **■** [7] while the CD is stopped. When you open the CD compartment or turn off the unit, the resume play is also canceled.

Note

You cannot locate a specific track if "SHUF" or "PGM" is lit in the display. Press **■** [7], and then press MODE [8] repeatedly until "SHUF" and "PGM" disappear from the display.

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 start play. We recommend that you do not save unnecessary folders or files other than MP3 ones in the disc to be used for MP3 listening.
- A folder that does not include an MP3 file is skipped.
- Maximum number of files: 255
- Maximum number of folders: 150 (including the root folder)
- Maximum number of folders and files in total: 256
- Maximum directory levels: 8
- Folder names and file names can be displayed with up to 30 characters including quotation marks.
- The characters A - Z, 0 - 9, and _ can be displayed on this unit. Other characters are displayed as "-".
- This unit conforms to Version 1.0, 1.1, 2.2, 2.3 and 2.4 of the ID3 tag format. When the file has the ID3 tag information, "song title", "artist name" and "album name" can be displayed. If the file does not have the ID3 tag information, "NO TITLE" appears instead of song title, "NO ARTIST" appears instead of artist name and "NO ALBUM" appears instead of album name. The ID3 tag information can be displayed with up to 15 characters.
- 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/BAND•AUTO PRESET [4] on the unit (RADIO/BAND [4] on the remote) repeatedly.

Each time you press the button, the indication changes as follows:

"FM" → "AM"

- Hold down **TUNE +** or **-** [5] 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 **-** [5] 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 [8] until "Mono" appears in the display and the radio will play in monaural.

Changing the AM tuning interval

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

- Press RADIO/BAND•AUTO PRESET [4] on the unit until "AM" is displayed.
- Press DSPL/ENT [18] on the unit for 2 seconds.
- Press RADIO/BAND•AUTO PRESET [4] on the unit for 2 seconds. "9K STEP" or "10K STEP" flashes.
- Press PRESET + or - [6] on the unit to select "9K STEP" for 9 kHz interval or "10K STEP" for 10 kHz interval.
- Press DSPL/ENT [18] on the unit.

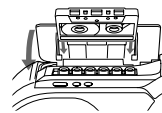
After changing the tuning interval, you need to reset your preset AM radio stations.

Playing a tape

Use buttons on the unit for the operation.

- Press **■** [2] on the unit, and insert the tape into the tape compartment with the side you want to play facing upward. 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 **▶** [2] on the unit.

The unit starts playing.

To	Press
Pause playback	II [2] on the unit. To resume play, press it again.
Stop playback	■ [2] on the unit.
Fast-forward or rewind*	◀◀ or ▶▶ (rewind or fast forward) [2] on the unit.
Eject the cassette	■ [2] on the unit.

* When the tape is wound to the end, press **■** [2] to release **◀◀** or **▶▶** [2].

CFD-G770CP (2/2)

Other Operations

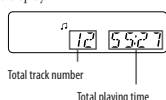
Using the display

You can check information about the CD using the display.

Checking the information of an audio CD

To check the total track number and playing time of the CD

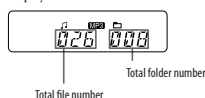
Press **■** [7] while the CD is stopped, and you can check them in the display.



Checking the information of an MP3 disc

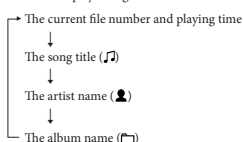
To check the total folder number and total file number on the CD

Press **■** [7] while the CD is stopped, and you can check them in the display.



To check file information

Press DSPL/ENT [18] on the unit while playing an MP3 disc. The display changes as follows:



Playing tracks/MP3 files repeatedly

(Repeat Play)

You can play tracks/MP3 files repeatedly in normal, Shuffle or Program play modes.

- Press **■** [7].
"CD" appears in the display.
- Proceed as follows.

To repeat	Do this
A single track/MP3 file	- Press REPEAT [12] until "1" appears. - Press ◀ [6] or ▶ [6] to select the track/MP3 file that you want to repeat. - Press ▶ [7] on the unit.
All tracks/MP3 files on the CD	- Press REPEAT [12] until "CD" appears. - Press ▶ [7] on the unit.
A selected folder (MP3 disc only)	- Press MODE [13] until "□" appears, and then press REPEAT [12] until "CD" appears. - Select the folder by pressing □ + or □ - [5]. - Press ▶ [7] on the unit.
Tracks/MP3 files in random order	- Select Shuffle Play (see "Playing tracks/MP3 files in random order"). - Press REPEAT [12] until "SHUF" and "CD" appear. - Press ▶ [7] on the unit.
Files in a selected folder in random order (MP3 disc only)	- Start Folder Shuffle Play (see "Playing tracks/MP3 files in random order"). - Press REPEAT [12] on the unit until "CD", "SHUF" and "□" appear. - Press ▶ [7] on the unit.
Programmed tracks/MP3 files	- Program tracks/MP3 files (see "Creating your own program"). - Press REPEAT [12] until "CD" and "PGM" appear. - Press ▶ [7] on the unit.

On the remote

Use **▶** [7] instead of **▶** [7].

To cancel Repeat Play

Press REPEAT [12] until "CD" disappears from the display.

Playing tracks/MP3 files in random order (Shuffle Play)

You can play tracks/MP3 files in random order. When playing an MP3 disc, you can also play MP3 files in a selected folder in random order (Folder Shuffle Play).

- Press **■** [7].
"CD" appears in the display.
- Press MODE [13] until "SHUF" appears in the display.
When you select Folder Shuffle Play (MP3 disc only), press MODE [13] on the unit until "□" and "SHUF" appear in the display. Then press **□** TUNE + or - [5] on the unit to select a folder you want.
- Press **▶** [7] on the unit to start Shuffle Play.

On the remote

Use **▶** [7] instead of **▶** [7].

To cancel Shuffle Play

Stop playing first. Then press MODE [13] until "SHUF" disappears from the display.

Tips

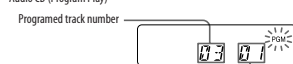
- During Shuffle Play, you cannot select the previous track/MP3 file by pressing **◀** [6].
- The resume function does not work during Shuffle Play.

Creating your own program (Program Play)

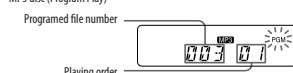
You can arrange the playing order of up to 15 tracks/MP3 files on a CD.

- Press **■** [7].
"CD" appears in the display.
- Press MODE [13] until "PGM" flashes in the display.
- Press **◀** [6] or **▶** [6] then press DSPL/ENT [18] on the unit (ENTER [24] on the remote) for the tracks/MP3 files you want to program in the order you want.
For MP3 files, press **□** TUNE + or - [5] first and then press **◀** [6] or **▶** [6] and DSPL/ENT [18] (ENTER [24] on the remote).

Audio CD (Program Play)



MP3 disc (Program Play)



- Press **▶** [7] on the unit to start Program Play.

On the remote

Use **▶** [7] instead of **▶** [7].

To cancel Program Play

Stop playing first. Then press MODE [13] until "PGM" disappears from the display.

To delete the last track or file of the program

Press CLEAR [22] on the remote while the unit is stopped.

To check the order of tracks/MP3 files before play

Press DSPL/ENT [18] on the unit.
Every time you press the button, the track number and the playing order appear.

To change the current program

Press **■** [7] once if the CD is stopped and twice if the CD is playing. The current program will be erased. Then create a new program following the programming procedure.

Tips

- If you try to program 16 tracks/MP3 files or more, "FULL" will appear in the display.
- You can play the same program again, since the program is saved until you open the CD compartment or turn off the power of the unit.
- You can record your own program. After you have created the program, insert a blank tape and press **●** [2] on the unit to start recording.
- The resume function does not work during Program Play.

Presetting radio stations

You can store radio stations into the unit's memory. You can preset up to 30 radio stations, 20 for FM and 10 for AM in any order.

- Press RADIO/BAND•AUTO PRESET [4] on the unit to select the band.
- Hold down RADIO/BAND•AUTO PRESET [4] on the unit for 2 seconds until "AUTO" flashes in the display.
- Press DSPL/ENT [18] on the unit.
The stations are stored in memory from the lower frequencies to the higher ones.

If a station cannot be preset automatically

You need to preset a station with a weak signal manually.

- Press RADIO/BAND•AUTO PRESET [4] on the unit to select the band.
- Tune in a station you want.
- Hold down DSPL/ENT [18] on the unit for 2 seconds until the preset number flashes in the display.
- Press PRESET + or - [6] on the unit until the preset number you want for the station flashes in the display.
- Press DSPL/ENT [18] on the unit.
The new station replaces the old one.

On the remote

- Press RADIO/BAND [4] until the band you want appears in the display.
- Tune in a station you want.
- Hold down ENTER [24] for 2 seconds until the preset number flashes in the display.
- Press PRESET + or - [6] until the preset number you want for the station flashes in the display.
- Press ENTER [24].

Tip

The preset radio stations remain in memory even if you unplug the AC-power cord or remove the batteries.

Playing preset radio stations

- Press RADIO/BAND•AUTO PRESET [4] on the unit to select the band.
- Press PRESET + or - [6] on the unit to tune in the stored station.

On the remote

- Press RADIO/BAND [4].
- Press PRESET + or - [6] to tune in the stored station.

Falling asleep to music

- Play the music source you want.
- Press SLEEP [17] to display "SLEEP".
- Press SLEEP [17] to select the minutes until the unit goes off automatically.

Each time you press the button, the indication changes as follows:

"AUTO" → "60MIN" → "30MIN" → "20MIN" → "10MIN" → "OFF".

* When you select "AUTO", the CD or tape stops playing in 90 minutes at most and the unit goes off automatically. When you are listening to the radio, the radio goes off in 90 minutes.

If 4 seconds have passed after you pressed SLEEP [17], the minutes in the display are entered.

When the preset time has passed, the unit goes off automatically.

To cancel the sleep function

Press POWER [1] to turn off the power.

Note

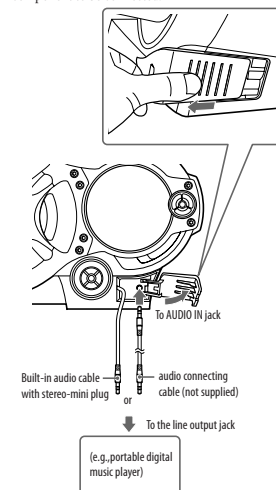
When you are playing a tape using this function:

If the tape length of one side is longer than the set time, the unit will not go off until the tape reaches the end.

Connecting optional component

You can enjoy the sound from an optional component such as a portable digital music player through the speakers of this unit.

Be sure to turn off the power of each component before making any connections.
For details, refer to the instruction manual of the component to be connected.



- Connect the built-in audio cable with stereo-mini plug [11] on the unit to the line output jack of the portable digital music player or other components*.
- Turn the unit and the connected component on.
- Press AUDIO IN [14] on the unit and start playing sound on the connected component.

The sound from the connected component is output from the speakers.

* To connect the unit to a TV or VCR, use an extension cable (not supplied) with a stereo-mini jack on one end (for the built-in audio cable) and two phono plugs on the other end.

Recording the sound from the connected component

- Insert a blank tape.
- Press AUDIO IN [14] on the unit to display "AUDIO IN".
- Press **●** [2] on the unit.
Recording starts.
- Play the optional component connected to the unit.

Tip

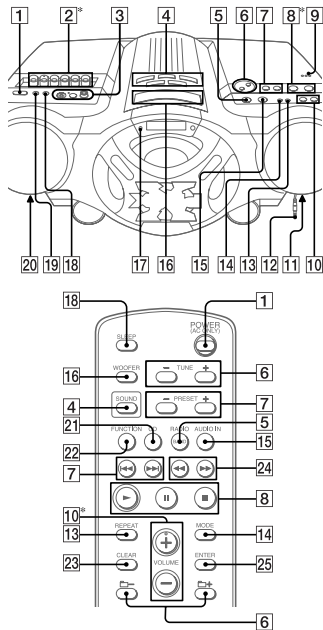
Should the built-in audio cable [11] become damaged, you can use the AUDIO IN jack [10] to connect an optional component to the unit. Use an audio connecting cable (not supplied) with a stereo mini plug on one end (for the AUDIO IN jack [10]). Make sure the plug on the other end is suited to the jack on the optional component, for example, a stereo-mini plug for a portable digital music player, or two phono plugs for a TV or VCR.

Notes

- Do not pull forcibly on the built-in audio cable [11]. Doing so may cause the plug to rip off.
- Connect the built-in audio cable [11] or audio connecting cable (not supplied) securely to prevent any malfunction.
- It is not possible to listen to two components connected at the same time through the built-in audio cable [11] and the AUDIO IN jack [10] (using an optional audio connecting cable). Connect one component at a time.

CFD-G770CPK (1/2)

Basic Operations



* VOL + (VOLUME + on the remote) 10, ►II 8 and ► 2 (on the unit) have a tactile dot.

Before using the unit

To turn on/off the power
Press POWER 1.

To adjust the volume
Press VOL +, - (VOLUME +, - on the remote) 10.

To listen through headphones
Connect the headphones to the (headphones) jack 20.

To select the sound characteristic
Press ROCK, DANCE, SALSA, REGGAETON or FLAT 4 to select the kind of audio emphasis that you want. (On the remote, press SOUND 4 repeatedly.)

To reinforce the bass sound
Press POWER DRIVE WOOFER (WOOFER on the remote) 16 to select **WOOFFER** or **WOOFFER** on the display. **WOOFFER** is more effective. When the WOOFER function works, the ring on the front panel lights up.
To return to normal sound, press the button repeatedly until the indication disappears from the display.

Notes

- While the sleeping timer is on, the ring does not light, even if the WOOFER function is used.
- When you use the headphones, the WOOFER function does not work.

Playing a CD/MP3 disc

1 Press ► PUSH OPEN/CLOSE 9 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 9 on the unit.



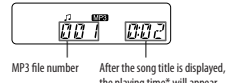
2 Press ►II on the unit (► on the remote) 8.

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.

Audio CD



MP3 disc



* If the playing time is more than 100 minutes, it appears "----" in the display.

To	Press
Pause playback	►II on the unit (► on the remote) 8. To resume play, press it again.
Stop playback	■ 8.
Go to the next track/MP3 file	►► 7.
Go back to the previous track/MP3 file	◄◄ 7.
Select a folder on an MP3 disc	► to go forward and ◄ to go backward 6.
Locate a point while listening to the sound	►► (forward) or ◄◄ (backward) 7 while playing and hold it until you find the point. (◄◄ or ►► 24 on the remote)
Locate a point while observing the display	►► (forward) or ◄◄ (backward) 7 in pause and hold it until you find the point. (◄◄ or ►► 24 on the remote)
Remove the CD	► PUSH OPEN/CLOSE 9.

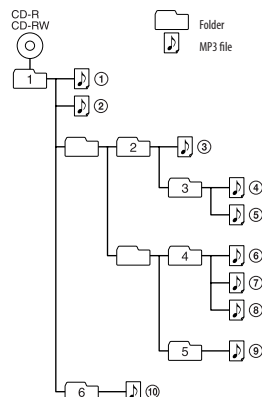
Tips

- 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 ■ 8 while the CD is stopped. When you open the CD compartment or turn off the unit, the resume play is also canceled.

Note

You cannot locate a specific track if "SHUF" or "PGM" is lit in the display. Press ■ 8, and then press MODE 14 repeatedly until "SHUF" and "PGM" disappear from the display.

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 start play. We recommend that you do not save unnecessary folders or files other than MP3 ones in the disc to be used for MP3 listening.
- A folder that does not include an MP3 file is skipped.
- Maximum number of files: 255
- Maximum number of folders: 150 (including the root folder)
- Maximum number of folders and files in total: 256
- Maximum directory levels: 8
- Folder names and file names can be displayed with up to 30 characters including quotation marks.
- The characters A - Z, 0 - 9, and _ can be displayed on this unit. Other characters are displayed as " .".
- This unit conforms to Version 1.0, 1.1, 2.2, 2.3 and 2.4 of the ID3 tag format. When the file has the ID3 tag information, "song title", "artist name" and "album name" can be displayed. If the file does not have the ID3 tag information, "NO TITLE" appears instead of song title, "NO ARTIST" appears instead of artist name and "NO ALBUM" appears instead of album name. The ID3 tag information can be displayed with up to 15 characters.
- 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/BAND•AUTO PRESET 5 on the unit (RADIO/BAND 5 on the remote) repeatedly. Each time you press the button, the indication changes as follows:
"FM" → "AM"
- Hold down TUNE + or - 6 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 - 6 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 14 until "Mono" appears in the display and the radio will play in monaural.

Playing a tape

Use buttons on the unit for the operation.

- Press ► 2 on the unit, and insert the tape into the tape compartment with the side you want to play facing upward. 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 ► 2 on the unit. The unit starts playing.

To	Press
Pause playback	►II 2 on the unit. To resume play, press it again.
Stop playback	■ 2 on the unit.
Fast-forward or rewind*	◄◄ or ►► (rewind or fast forward) 2 on the unit.
Eject the cassette	► 2 on the unit.

* When the tape is wound to the end, press ► 2 to release ◄◄ or ►► 2.

Recording on a tape

Use buttons on the unit for the operation.

- Press ► 2 on the unit to open the tape compartment and insert a blank tape with the side you want to record on facing upward. Use TYPE I (normal) tape only. Close the compartment.
- Select the program source you want to record. To record from the CD player, press ■ 8 on the unit and place a CD. To record from the radio, tune in the station you want (see "Listening to the radio").
- Press ► 2 on the unit to start recording (► is depressed automatically).

To	Press
Pause recording	►II 2 on the unit. Press the button again to resume recording.
Stop recording	■ 2 on the unit.

Tips

- Adjusting the volume or the audio emphasis will not affect the recording level.
- For the best results, use the AC power as a power source for recording.
- To erase a recording, proceed as follows:
 - Insert the tape whose recording you want to erase.
 - Make sure that "TAPE" is displayed. (If "TAPE" is not displayed, press ► 2 on the unit or press FUNCTION 22 on the remote until it appears in the display.)
 - Press ► 2 on the unit.

CFD-G770CPK (2/2)

Other Operations

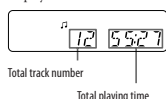
Using the display

You can check information about the CD using the display.

Checking the information of an audio CD

To check the total track number and playing time of the CD

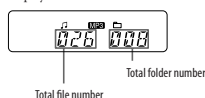
Press **■** [8] while the CD is stopped, and you can check them in the display.



Checking the information of an MP3 disc

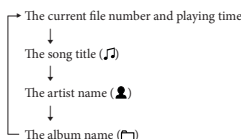
To check the total folder number and total file number on the CD

Press **■** [8] while the CD is stopped, and you can check them in the display.



To check file information

Press DSPL/ENT [19] on the unit while playing an MP3 disc. The display changes as follows:



Playing tracks/MP3 files repeatedly

(Repeat Play)

You can play tracks/MP3 files repeatedly in normal, Shuffle or Program play modes.

1 Press **■** [8].

"CD" appears in the display.

2 Proceed as follows.

To repeat	Do this
A single track/MP3 file	1 Press REPEAT [13] until "1" appears. 2 Press ◀ or ▶ [7] to select the track/file. 3 Press ▶ [8] on the unit.
All tracks/MP3 files on the CD	1 Press REPEAT [13] until "∞" appears. 2 Press ▶ [8] on the unit.
A selected folder (MP3 disc only)	1 Press MODE [14] until "□" appears, and then press REPEAT [13] until "∞" appears. 2 Select the folder by pressing □ or ◀ or ▶ [7]. 3 Press ▶ [8] on the unit.
Tracks/MP3 files in random order	1 Select Shuffle Play (see "Playing tracks/MP3 files in random order"). 2 Press REPEAT [13] until "SHUF" and "∞" appear. 3 Press ▶ [8] on the unit.
Files in a selected folder in random order (MP3 disc only)	1 Start Folder Shuffle Play (see "Playing tracks/MP3 files in random order"). 2 Press REPEAT [13] on the unit until "∞", "SHUF" and "□" appear. 3 Press ▶ [8] on the unit.
Programmed tracks/MP3 files	1 Program tracks/MP3 files (see "Creating your own program"). 2 Press REPEAT [13] until "∞" and "PGM" appear. 3 Press ▶ [8] on the unit.

On the remote

Use **▶** [8] instead of **▶** [8].

To cancel Repeat Play

Press REPEAT [13] until "∞" disappears from the display.

Playing tracks/MP3 files in random order

(Shuffle Play)

You can play tracks/MP3 files in random order. When playing an MP3 disc, you can also play MP3 files in a selected folder in random order (Folder Shuffle Play).

1 Press **■** [8].

"CD" appears in the display.

2 Press MODE [14] until "SHUF" appears in the display. When you select Folder Shuffle Play (MP3 disc only), press MODE [14] on the unit until "□" and "SHUF" appear in the display. Then press **□** TUNE + or - [6] on the unit to select a folder you want.

3 Press **▶** [8] on the unit to start Shuffle Play.

On the remote

Use **▶** [8] instead of **▶** [8].

To cancel Shuffle Play

Stop playing first. Then press MODE [14] until "SHUF" disappears from the display.

Tips

- During Shuffle Play, you cannot select the previous track/MP3 file by pressing **◀** [7].
- The resume function does not work during Shuffle Play.

Creating your own program (Program Play)

You can arrange the playing order of up to 15 tracks/MP3 files on a CD.

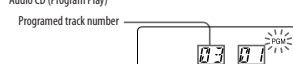
1 Press **■** [8].

"CD" appears in the display.

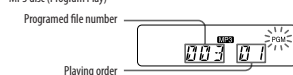
2 Press MODE [14] until "PGM" flashes in the display.

3 Press **◀** or **▶** [7] then press DSPL/ENT [19] on the unit (ENTER [25] on the remote) for the tracks/MP3 files you want to program in the order you want. For MP3 files, press **□** TUNE + or - [6] first and then press **◀** or **▶** [7] and DSPL/ENT [19] (ENTER [25] on the remote).

Audio CD (Program Play)



MP3 disc (Program Play)



4 Press **▶** [8] on the unit to start Program Play.

On the remote

Use **▶** [8] instead of **▶** [8].

To cancel Program Play

Stop playing first. Then press MODE [14] until "PGM" disappears from the display.

To delete the last track or file of the program

Press CLEAR [23] on the remote while the unit is stopped.

To check the order of tracks/MP3 files before play

Press DSPL/ENT [19] on the unit. Every time you press the button, the track number and the playing order appear.

To change the current program

Press **■** [8] once if the CD is stopped and twice if the CD is playing. The current program will be erased. Then create a new program following the programming procedure.

Tips

- If you try to program 16 tracks/MP3 files or more, "FULL" will appear in the display.
- You can play the same program again, since the program is saved until you open the CD compartment or turn off the power of the unit.
- You can record your own program. After you have created the program, insert a blank tape and press **●** [2] on the unit to start recording.
- The resume function does not work during Program Play.

Presetting radio stations

You can store radio stations into the unit's memory. You can preset up to 30 radio stations, 20 for FM and 10 for AM in any order.

1 Press RADIO/BAND•AUTO PRESET [5] on the unit to select the band.

2 Hold down RADIO/BAND•AUTO PRESET [5] on the unit for 2 seconds until "AUTO" flashes in the display.

3 Press DSPL/ENT [19] on the unit.

The stations are stored in memory from the lower frequencies to the higher ones.

If a station cannot be preset automatically

You need to preset a station with a weak signal manually.

1 Press RADIO/BAND•AUTO PRESET [5] on the unit to select the band.

2 Tune in a station you want.

3 Hold down DSPL/ENT [19] on the unit for 2 seconds until the preset number flashes in the display.

4 Press PRESET + or - [7] on the unit until the preset number you want for the station flashes in the display.

5 Press DSPL/ENT [19] on the unit.

The new station replaces the old one.

On the remote

1 Press RADIO/BAND [5] until the band you want appears in the display.

2 Tune in a station you want.

3 Hold down ENTER [25] for 2 seconds until the preset number flashes in the display.

4 Press PRESET + or - [7] until the preset number you want for the station flashes in the display.

5 Press ENTER [25].

Tip

The preset radio stations remain in memory even if you unplug the AC power cord or remove the batteries.

Playing preset radio stations

1 Press RADIO/BAND•AUTO PRESET [5] on the unit to select the band.

2 Press PRESET + or - [7] on the unit to tune in the stored station.

On the remote

1 Press RADIO/BAND [5].

2 Press PRESET + or - [7] to tune in the stored station.

Falling asleep to music

1 Play the music source you want.

2 Press SLEEP [18] to display "SLEEP".

3 Press SLEEP [18] to select the minutes until the unit goes off automatically.

Each time you press the button, the indication changes as follows:

"AUTO" → "60MIN" → "30MIN" → "20MIN" → "10MIN" → "OFF".

* When you select "AUTO", the CD or tape stops playing in 90 minutes at most and the unit goes off automatically. When you are listening to the radio, the radio goes off in 90 minutes.

If 4 seconds have passed after you pressed SLEEP [18], the minutes in the display are entered. When the preset time has passed, the unit goes off automatically.

To cancel the sleep function

Press POWER [1] to turn off the power.

Note

When you are playing a tape using this function: If the tape length of one side is longer than the set time, the unit will not go off until the tape reaches the end.

Using the Karaoke function (KARAOKE)

POM)

This function reduces the vocal component of the sound source so that you can enjoy Karaoke with your CDs, Tapes, radio programs, or AUDIO IN (the connected component).

Use buttons on the unit for the operation.

1 Connect a microphone (not supplied) to the MIC MIX [3] jack on the unit.

If the microphone has a power switch, set the switch to ON.

2 Press POWER [1] to turn on the unit.

3 Press KARAOKE PON [3] on the unit.

The indicator beside the KARAOKE PON button [3] lights up.

4 Play the sound source.

5 Turn MIC LEVEL [3] on the unit to adjust the microphone volume.

To cancel the Karaoke function

Press KARAOKE PON [3].

Notes

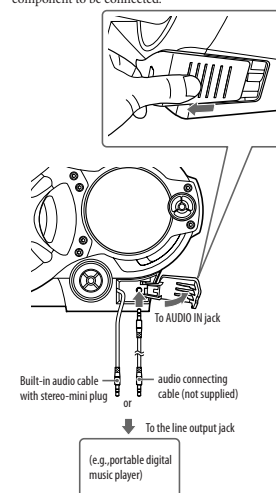
- Microphones with a built-in echo function can cause a howling sound. Keep the volume of the microphone low with the MIC LEVEL control [3].
- When the howling occurs, turn the head of the microphone away from the speakers.
- When recording from CDs, radio programs, or AUDIO IN (the connected component) with the Karaoke function is on, only the original sound (with the vocal component) will be recorded on the tape.
- Input from a microphone connected to the MIC MIX [3] jack cannot be recorded.
- Even when the Karaoke function is on, the vocal component may not be reduced or adequately reduced for some sound sources.

Connecting optional component

You can enjoy the sound from an optional component such as a portable digital music player through the speakers of this unit.

Be sure to turn off the power of each component before making any connections.

For details, refer to the instruction manual of the component to be connected.



1 Connect the built-in audio cable with stereo-mini plug [12] on the unit to the line output jack of the portable digital music player or other components*.

2 Turn the unit and the connected component on.

3 Press AUDIO IN [15] on the unit and start playing sound on the connected component. The sound from the connected component is output from the speakers.

* To connect the unit to a TV or VCR, use an extension cable (not supplied) with a stereo-mini jack on one end (for the built-in audio cable) and two phono plugs on the other end.

Recording the sound from the connected component

1 Insert a blank tape.

2 Press AUDIO IN [15] on the unit to display "AUDIO IN".

3 Press **●** [2] on the unit.

Recording starts.

4 Play the optional component connected to the unit.

Tip

Should the built-in audio cable [12] become damaged, you can use the AUDIO IN jack [15] to connect an optional component to the unit. Use an audio connecting cable (not supplied) with a stereo mini plug on one end (for the AUDIO IN jack [15]). Make sure the plug on the other end is suited to the jack on the optional component; for example, a stereo-mini plug for a portable digital music player, or two phono plugs for a TV or VCR.

Notes

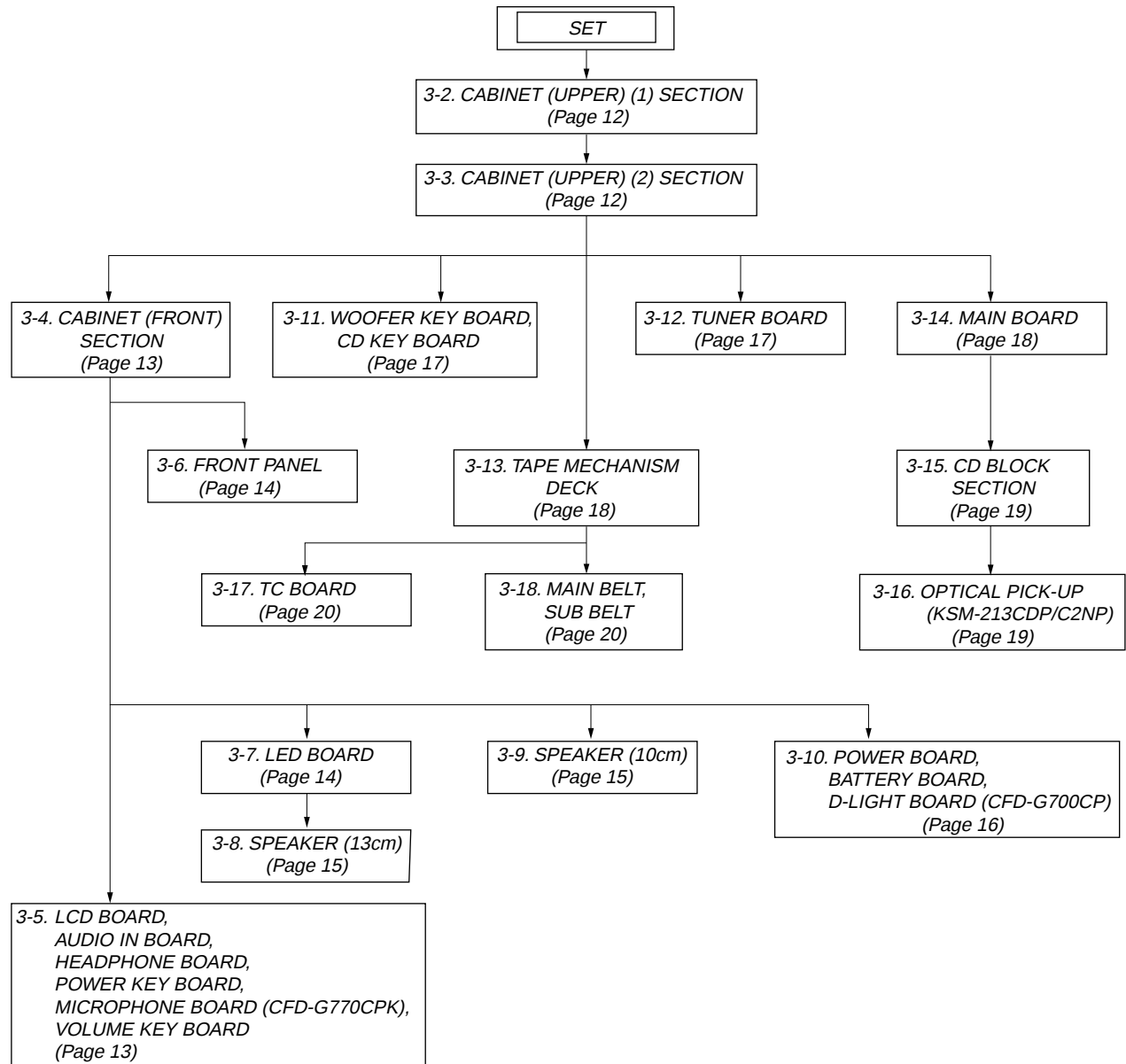
- Do not pull forcibly on the built-in audio cable [12]. Doing so may cause the plug to rip off.
- Connect the built-in audio cable [12] or audio connecting cable (not supplied) securely to prevent any malfunction.
- It is not possible to listen to two components connected at the same time through the built-in audio cable [12] and the AUDIO IN jack [15] (using an optional audio connecting cable). Connect one component at a time.

SECTION 3 DISASSEMBLY

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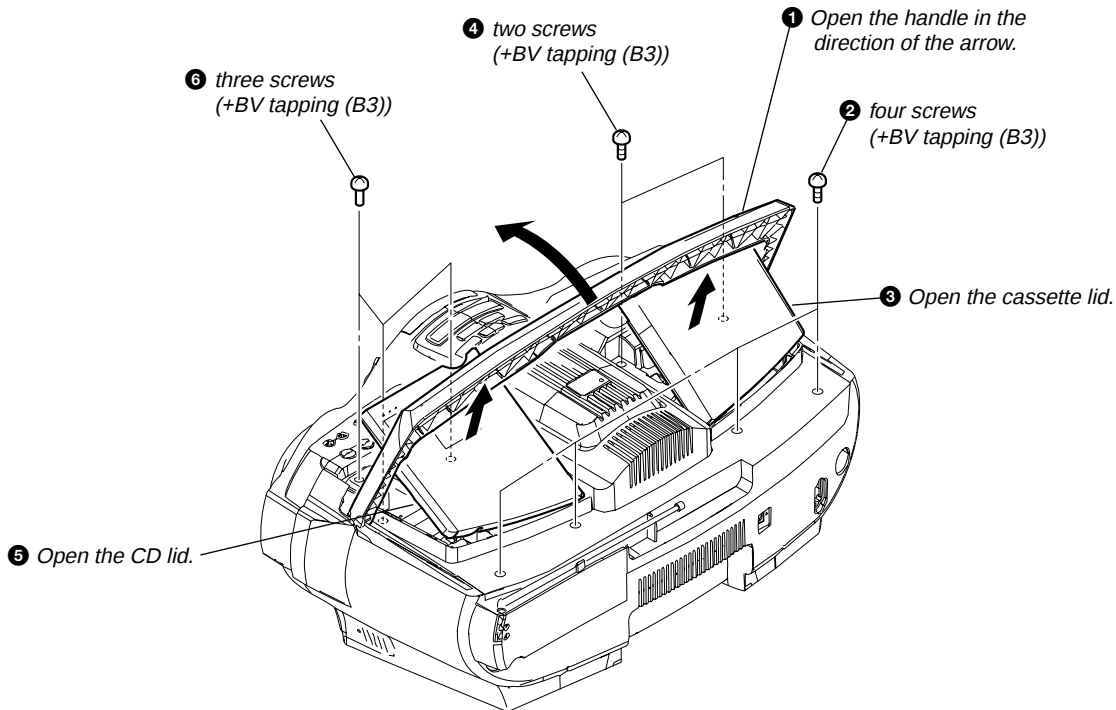
3-1. DISASSEMBLY FLOW

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

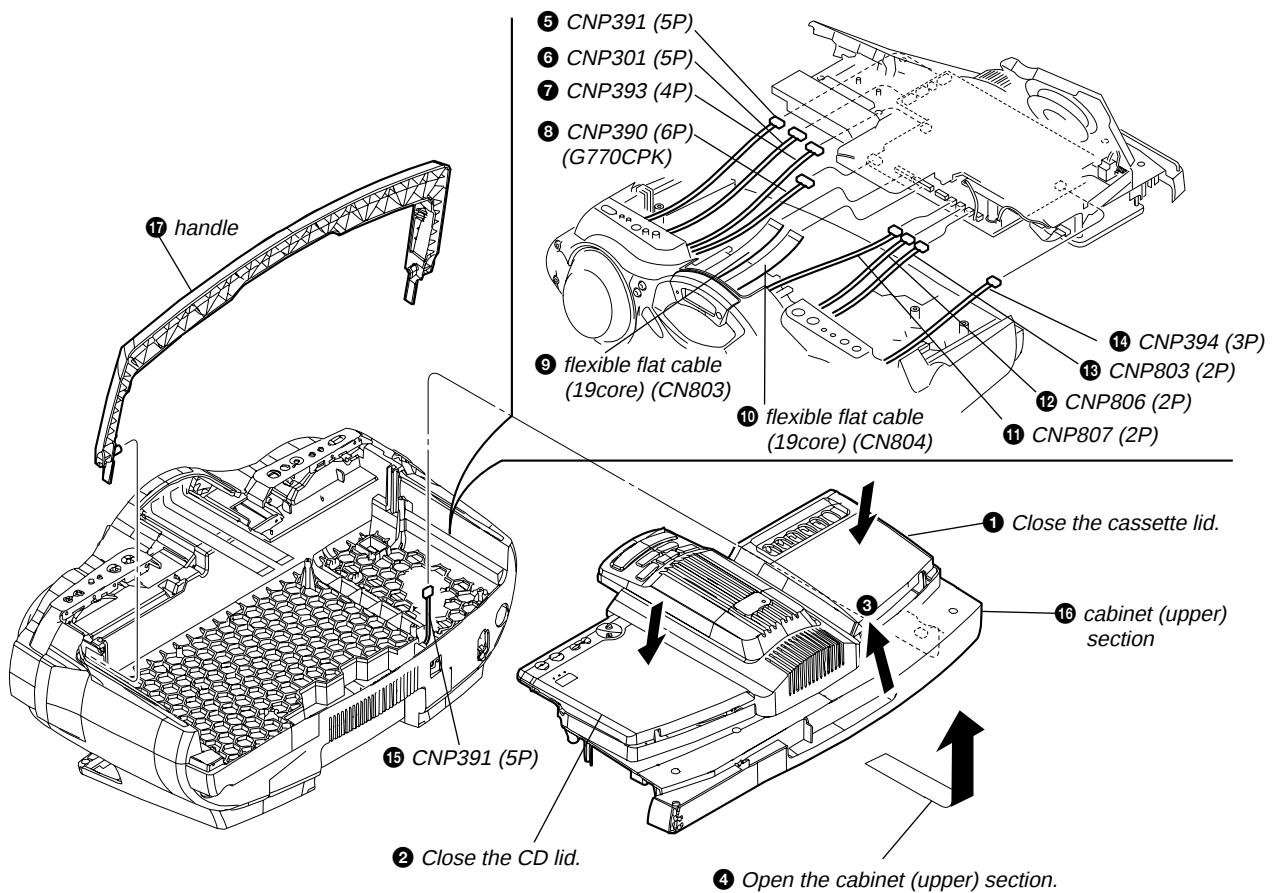


Note: Follow the disassembly procedure in the numerical order given.

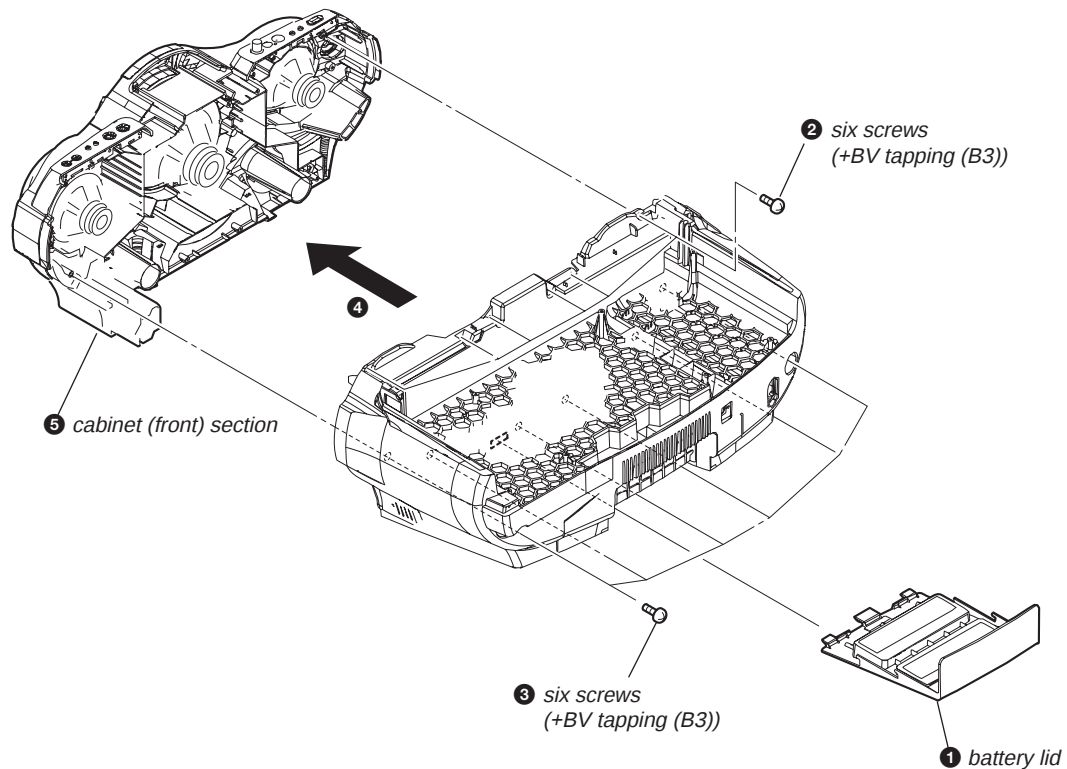
3-2. CABINET (UPPER) (1) SECTION



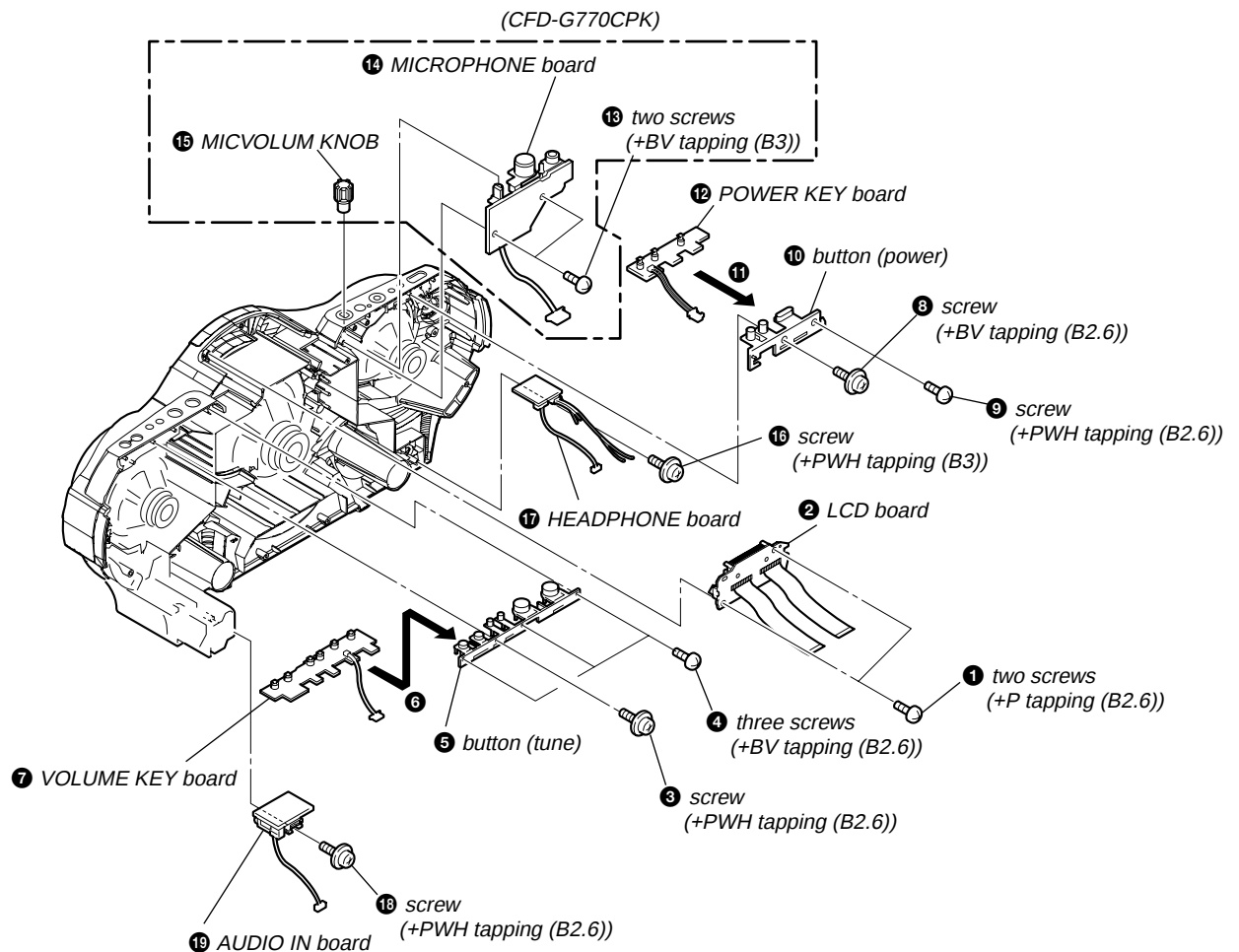
3-3. CABINET (UPPER) (2) SECTION



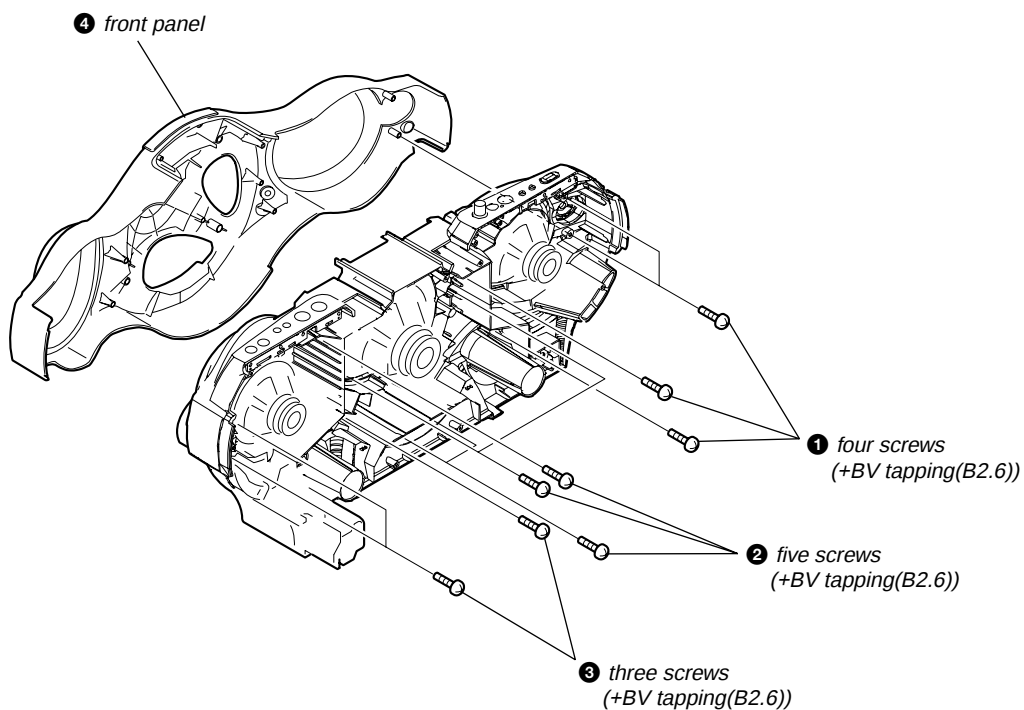
3-4. CABINET (FRONT) SECTION



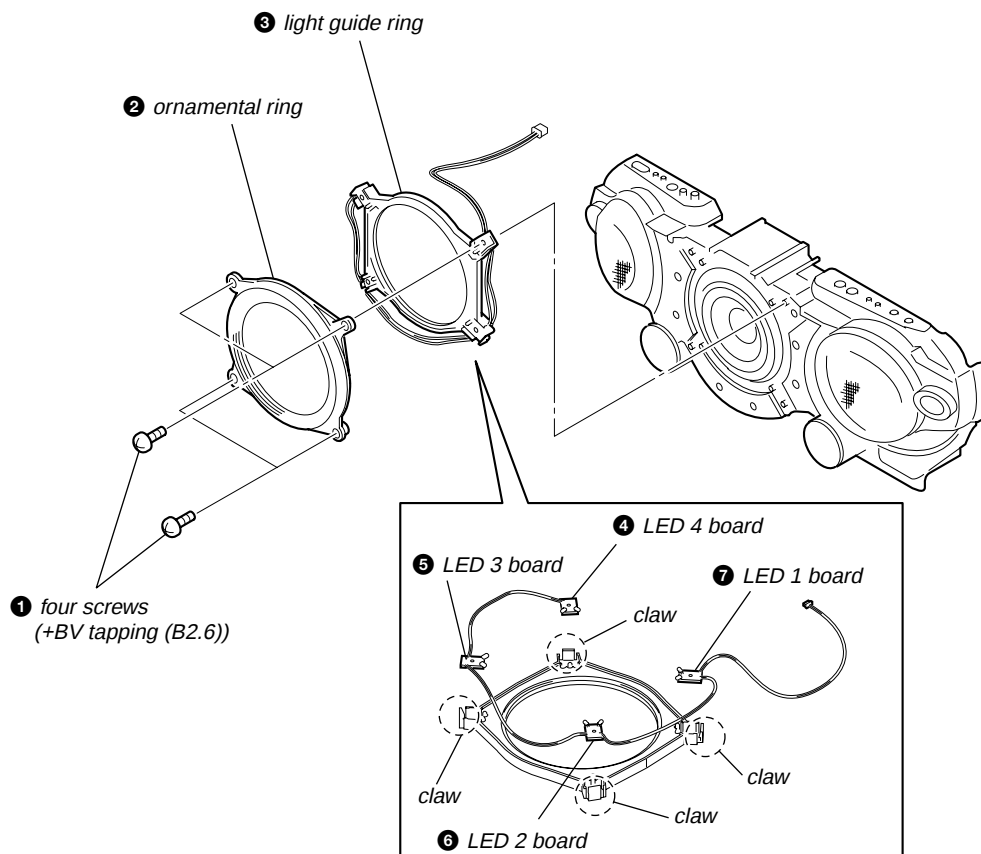
3-5. LCD BOARD, AUDIO IN BOARD, HEADPHONE BOARD, POWER KEY BOARD, MICROPHONE BOARD (CFD-G770CPK), VOLUME KEY BOARD

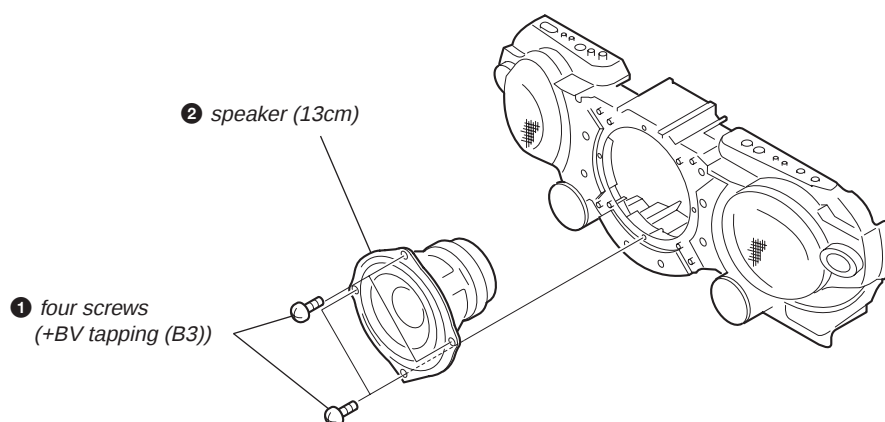
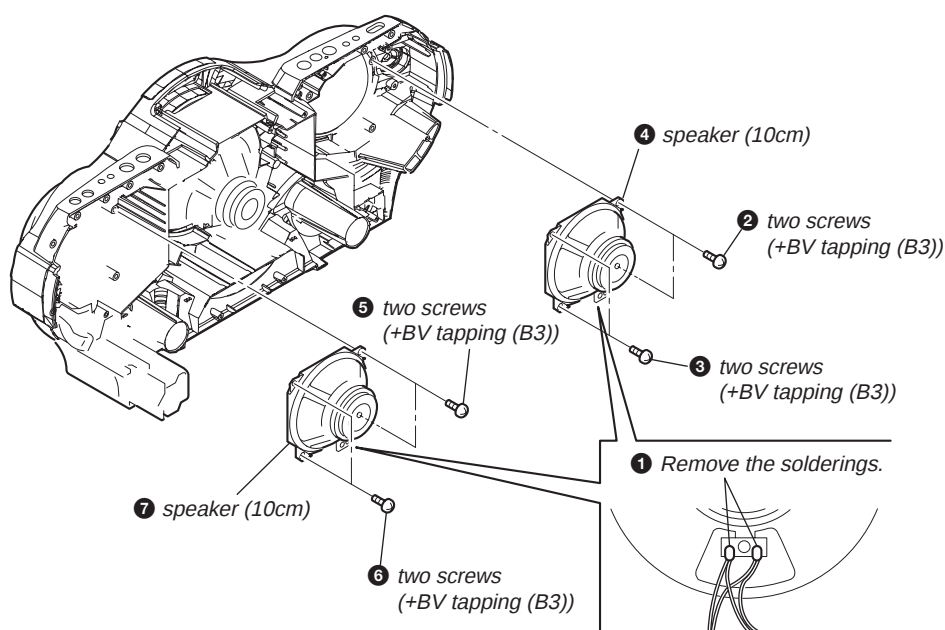


3-6. FRONT PANEL

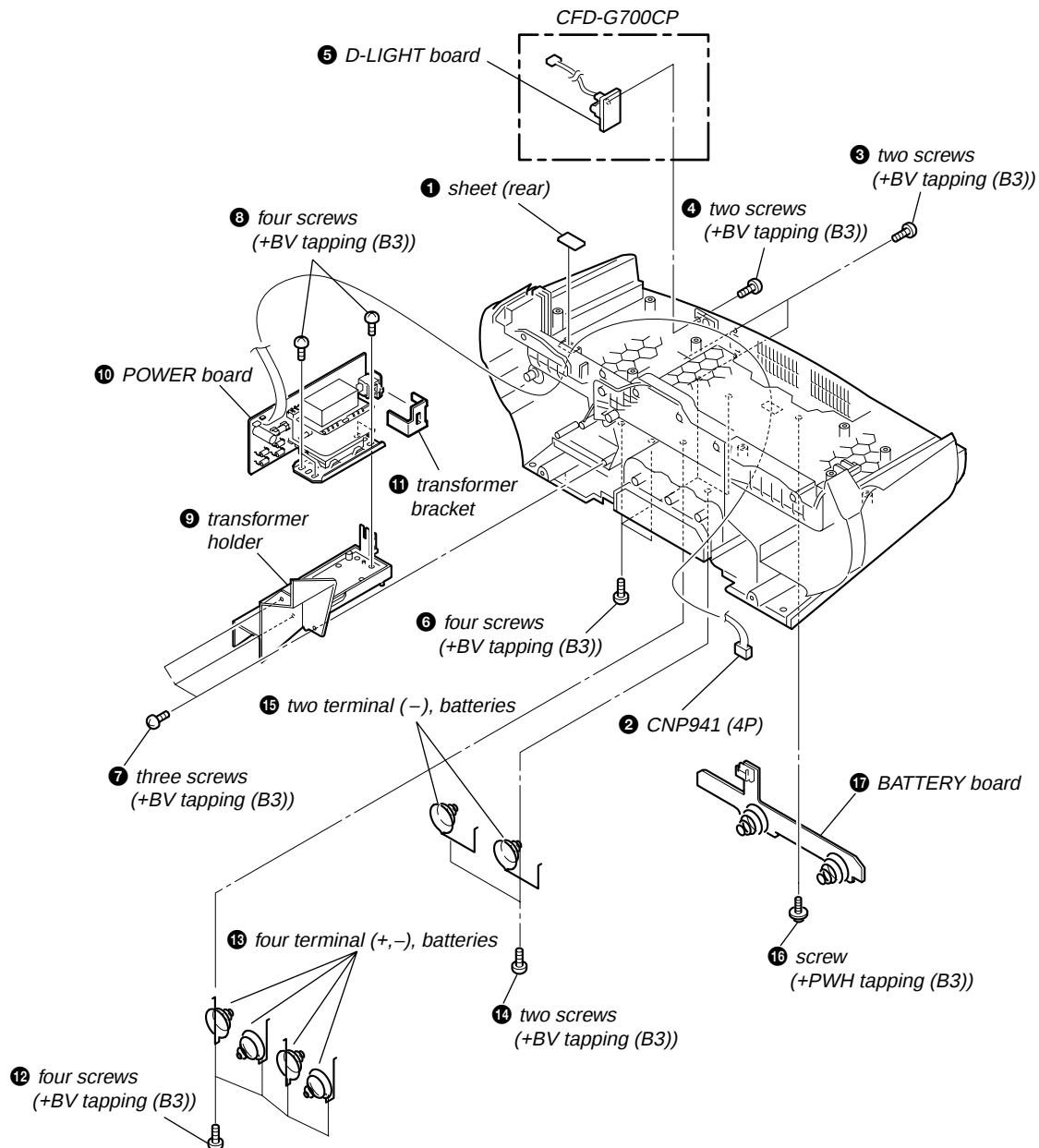


3-7. LED BOARD

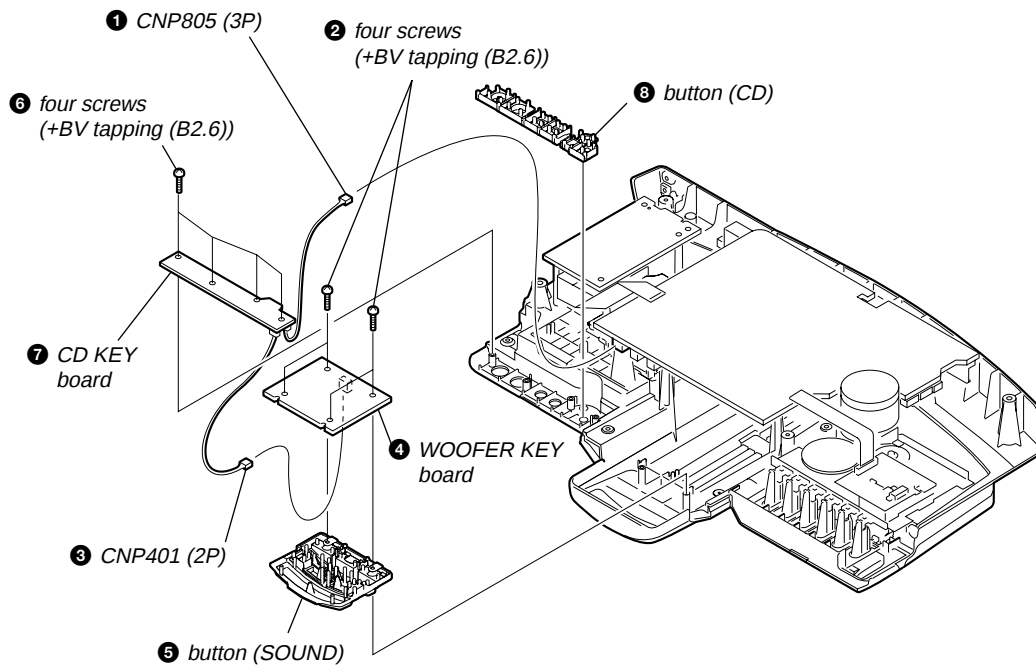


3-8. SPEAKER (13cm)**3-9. SPEAKER (10cm)**

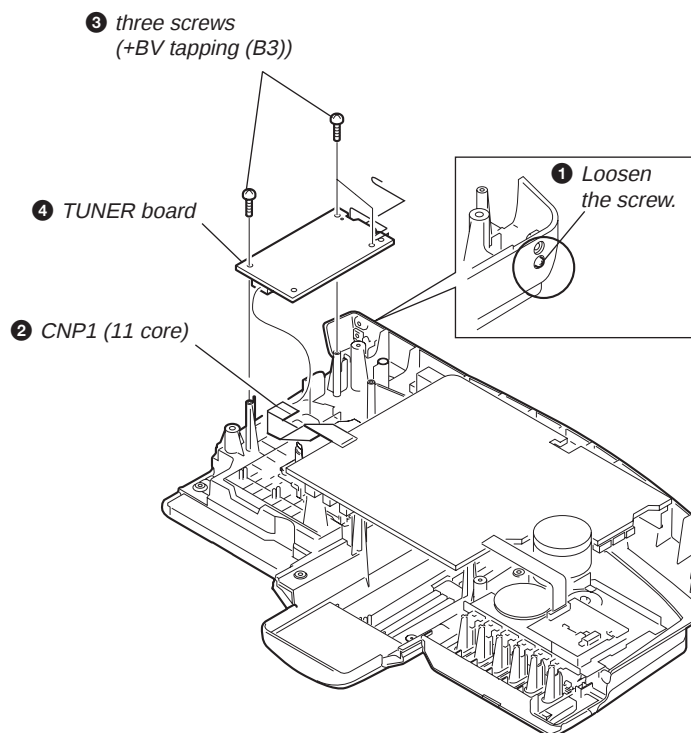
3-10. POWER BOARD, BATTERY BOARD, D-LIGHT BOARD (CFD-G700CP)



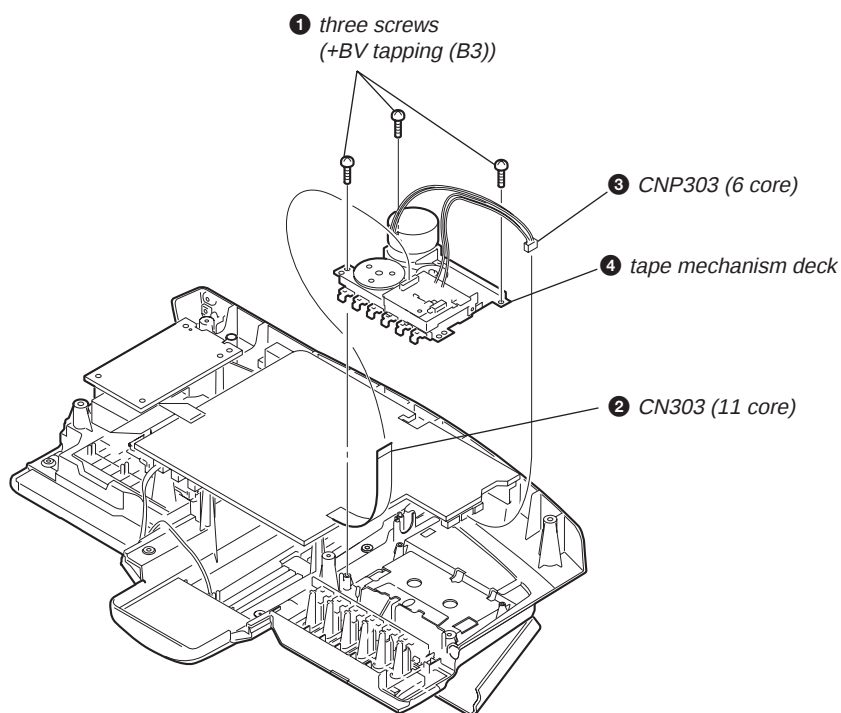
3-11. WOOFER KEY BOARD, CD KEY BOARD



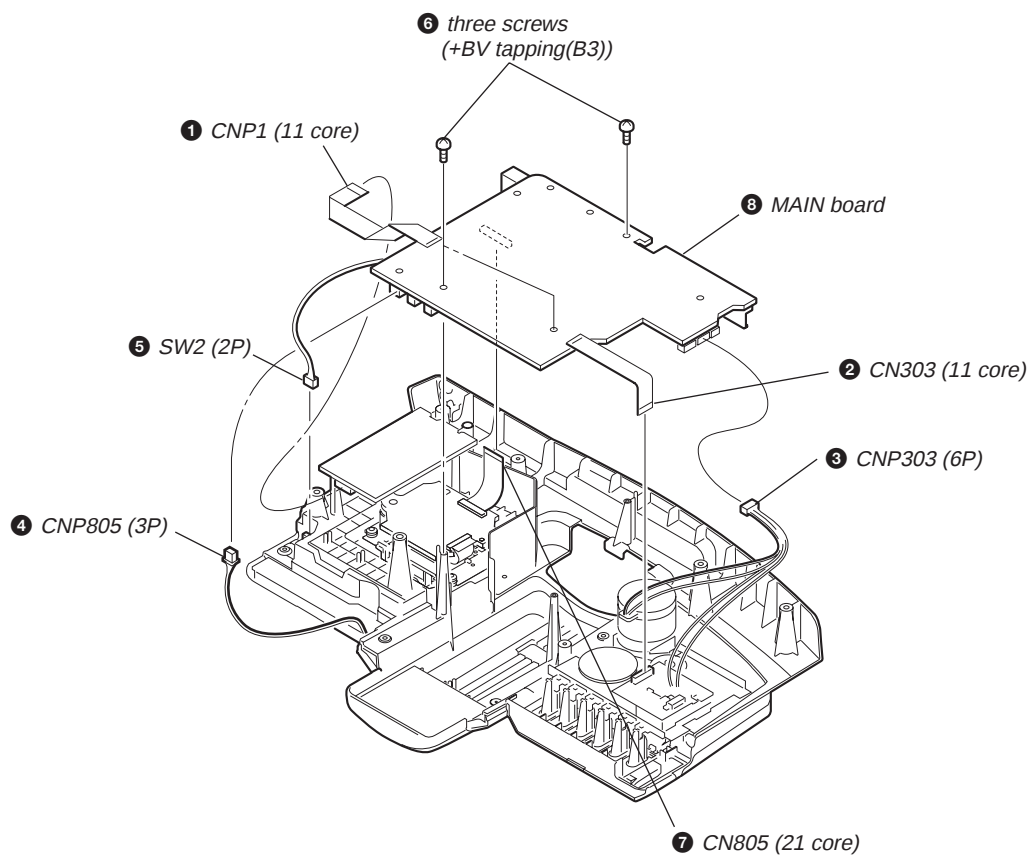
3-12. TUNER BOARD

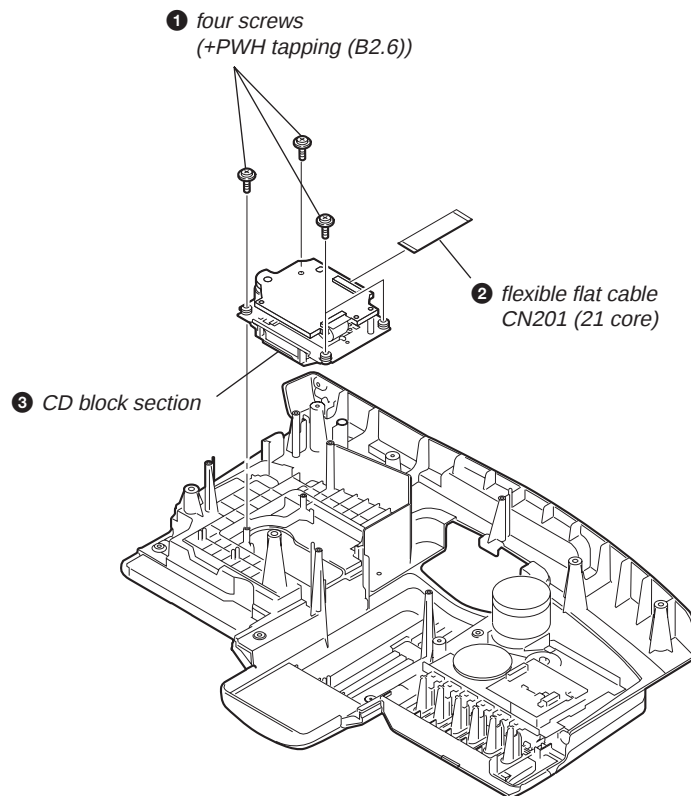
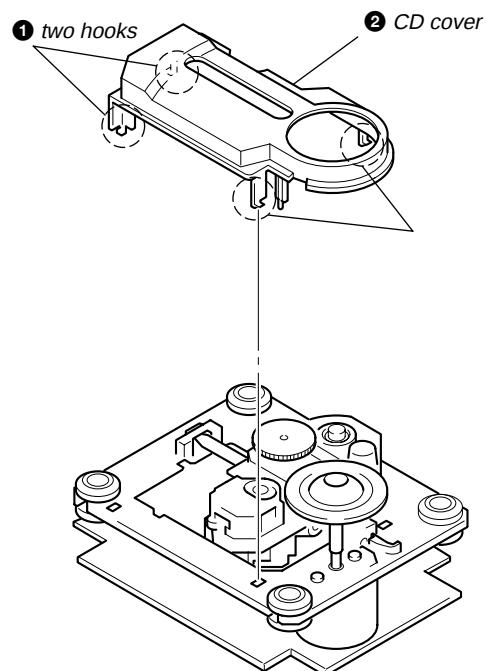


3-13. TAPE MECHANISM DECK

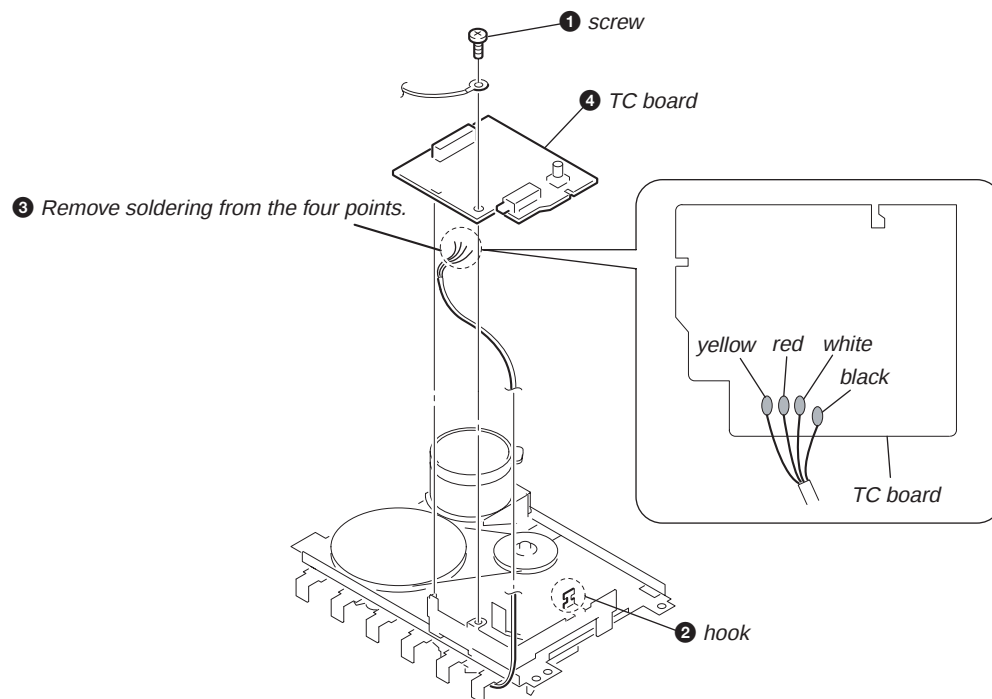


3-14. MAIN BOARD

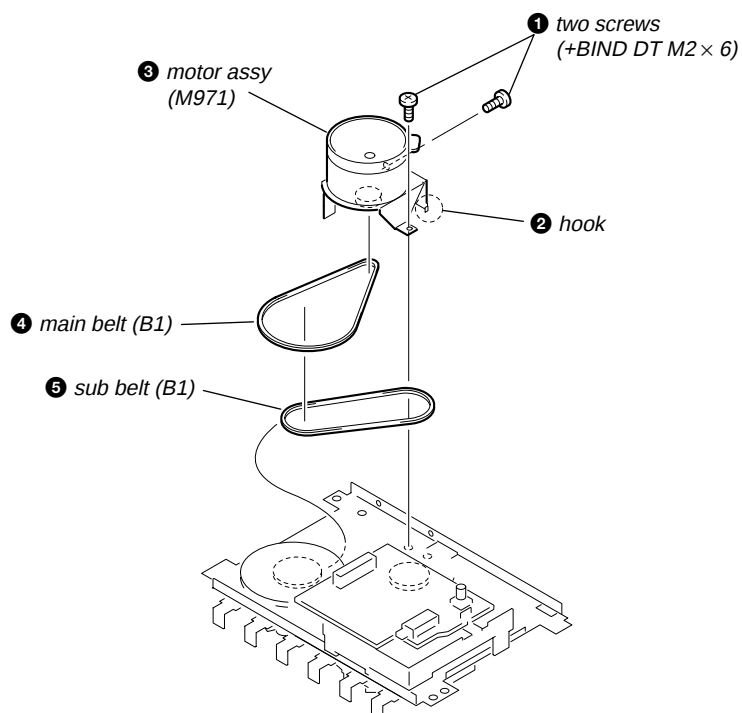


3-15. CD BLOCK SECTION**3-16. OPTICAL PICK-UP (KSM-213CDP/C2NP)**

3-17. TC BOARD



3-18. MAIN BELT, SUB BELT



SECTION 4

TEST MODE

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[MC COLD RESET]

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

Procedure:

1. In the standby status, press the **[POWER]** button to turn the power on.
2. Press three buttons of **[■]**, **[MODE]** and at last **[POWER]** simultaneously.
3. When "RESET" appears, the machine enters standby status.

[PANEL TEST MODE]

Enter The Panel Test Mode

Procedure:

1. In the standby status, press the **[POWER]** button to turn the power on.
2. Press three buttons of **[REPEAT]**, **[■]**, and **[DSPL/ENT]** simultaneously.
3. When the panel test mode is activated, LEDs and segments of LCD are all turned on.

Version Check

Procedure:

1. In the panel test mode (all LEDs and segments of LCD are turned on), press the **[ROCK]** button.
2. On the LCD, date and version are displayed "xxxxxxx". For example, "1127V103".
3. From this status, press the **[DANCE]** button, and the destination is displayed. For example, "1014 AU6" or "1014 U2".
4. To release from this mode, press three buttons of **[REPEAT]**, **[■]**, and **[DSPL/ENT]** simultaneously.

[CHANGE-OVER THE AM TUNING INTERVAL] (G770CP)

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

Procedure:

1. Press the **[POWER]** button to turn the power on.
2. Press the **[RADIO/BAND]** button to select TUNER (AM) function.
3. Select the AM BAND mode and press the **[DSPL/ENT]** button for an extended time in the AM BAND state.
4. Then, press the **[AUTO PRESET/RADIO/BAND]** for an extended time.
5. Next, press the **[PRESET +]** **[PRESET -]** button select either 9k/10k.
6. Finally, press the **[DSPL/ENT]** button to set the selected step.

[CD SERVICE MODE]

This mode can move the SLED of the optical pick-up, and also can turn the optical pick-up laser power on and off.

Procedure:

1. Press the **[POWER]** button to turn the power on.
2. Press three buttons of **[■]**, **[VOL +]**, and **[SALSA]** simultaneously.
3. It enters the CD service mode and displays "SERVICE".
4. To exit from this mode, press three buttons of **[■]**, **[VOL +]**, and **[SALSA]** simultaneously.

Key Operation:

[PRESET+ ►►], **[PRESET- ◄◄]**:

Use these keys to move the SLED.

When **[PRESET+ ►►]** is pressed in this mode, the SLED moves to outer circumference and the message "SLED OUT" is displayed.

When **[PRESET- ◄◄]** is pressed in this mode, the SLED moves to inner circumference and the message "SLED IN" is displayed.

[MODE]:

Use this key to turn the optical pick-up laser power on and off. When the laser power is turned on, the message "LD ON" is displayed. When the laser power is turned off, the message "LD OFF" is displayed.

[CD ERROR CODE]

The past errors of the optical pick-up system (= optical unit + BD board) is displayed as the BD Errors as shown below.

Procedure:

1. Press the **[POWER]** button to turn the power on.
2. Press three buttons of **[VOL +]**, **[■]** and **[DANCE]** simultaneously.
3. Then, the BD error code is displayed as "D0xxxxxx" (x means hexadecimal number) on the LCD screen as shown below.
4. Every pressing of the **[PRESET+ ►►]** button in this mode increments the number after "D" starting from "D0" up to "D4", and then returns to "D0". Every pressing of the **[PRESET- ◄◄]** button in this mode decrements the number after "D". The smaller the error code number is, the newer the error content is.
5. To exit from this mode, press the **[POWER]** button to turn the power off.

Contents of “BD Errors”

Error display example

D 0 02 09 01
 ① ② ③ ④

- ① It indicates the error history number
 0 to 4: The error code number 0 indicates the newest error.
- ② It indicates the error content
 - 01: The focus servo cannot lock-in.
 - 02: GFS is no good (NG).
 - 03: The startup time exceeds the specified period of time (time over)
 - 04: The focus servo is unlocked continuously.
 - 05: Q code cannot be obtained within the specified period of time.
 - 06: The tracking servo cannot lock-in.
 - 07: Blank disc
- ③ It indicates the on-going processing of optical pick-up system (= optical unit + BD board) when the trouble has occurred.
 - 01: The CD SHIP mode processing is in progress.
 - 02: The POWER OFF processing is in progress.
 - 03: The INITIALIZE processing is in progress.
 - 04: The optical pick-up system (= optical unit + BD board) is in the stop state.
 - 05: The STOP operation is in progress.
 - 06: The startup processing is in progress.
 - 07: The TOC read-in processing is in progress.
 - 08: The SEARCH operation is in progress.
 - 09: The PLAY operation is in progress.
 - 0A: The PAUSE operation is in progress.
 - 0B: The PLAY – MANUAL SEARCH operation is in progress.
 - 0C: The PAUSE – MANUAL SEARCH operation is in progress.
- ④ It indicates the operation that is being processed when the trouble has occurred.
 It indicates the step number of each processing specified by ③. Because the numbers of steps are different in each processing, this number is different in each processing.

SECTION 5 MECHANICAL ADJUSTMENTS

• Precaution

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

record/playback head	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.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102AS	2.0 – 8.0 mN • m (20 to 80 g • cm) (0.28 – 1.12 oz • inch)
FWD back tension	CQ-102C	0.15 – 0.6 mN • m (1.5 to 6 g • cm) (0.021 – 0.083 oz • inch)
FF	CQ-201AS	5 – 17.7 mN • m (50 to 177 g • cm) (0.7 – 2.48 oz • inch)
REW	CQ-201B	5 – 17.7 mN • m (50 to 177 g • cm) (0.7 – 2.48 oz • inch)

• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 80 g • cm (more than 2.82 oz • inch)

CFD-G700CP/G770CP/G770CPK SECTION 6 ELECTRICAL ADJUSTMENTS

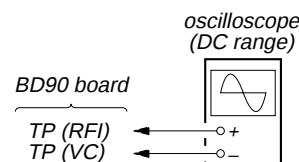
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CD SECTION

Note:

- CD Block is basically constructed to operate without adjustment.
- Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
- Use an oscilloscope with more than 10 MΩ impedance.
- Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
- Check the focus bias check when optical pick-up block is replaced.

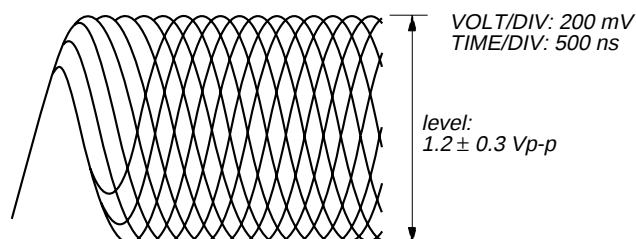
FOCUS BIAS CHECK



Procedure :

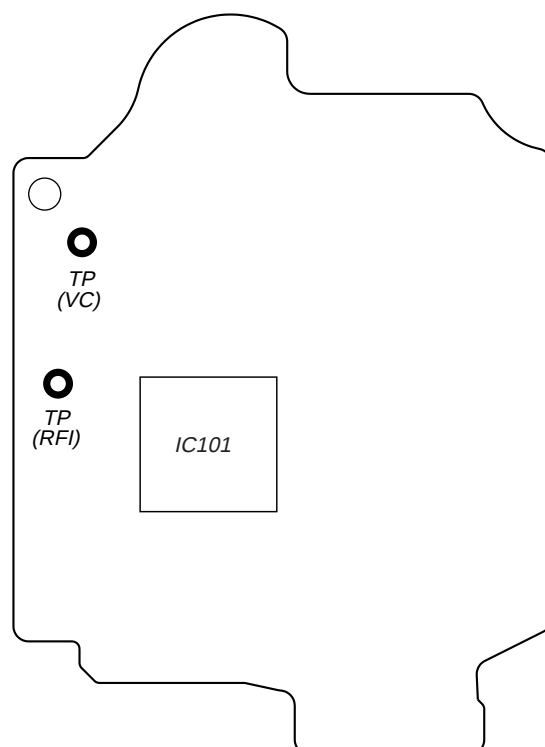
- Connect oscilloscope to TP (RFI) and TP (VC) on the BD90 board.
- Press the **POWER** button to turn the power ON, and press the **PUSH OPEN/CLOSE** button to open the CD disc tray.
- Set disc (YEDS-18) on the tray and press the **CD** button to playback.
- Confirm that oscilloscope waveform is as shown in the figure below. (eye pattern)

A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.



Checking Location:

– BD90 Board (Side B) –



TAPE SECTION

0 dB=0.775 V

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.

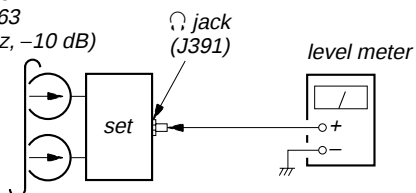
• **Test Tape**

Tape	Signal	Used for
P-4-A063	6.3 kHz, -10 dB	Azimuth Adjustment

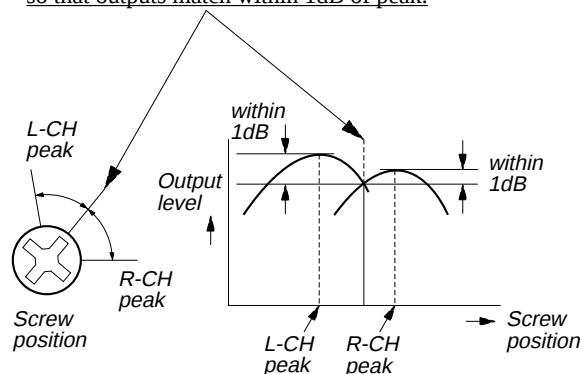
RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT**Procedure:**

1. Mode: Playback

test tape
P-4-A063
(6.3 kHz, -10 dB)

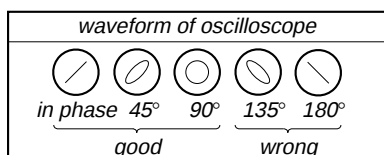
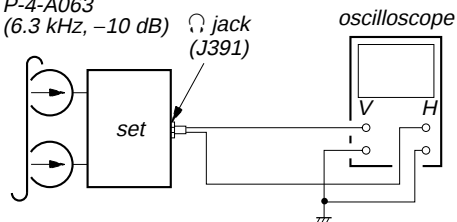


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.

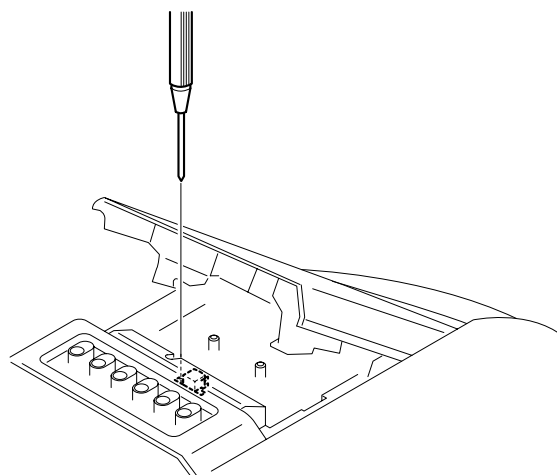


3. Mode: Playback

test tape
P-4-A063
(6.3 kHz, -10 dB)



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

Adjustment Location: Record/Playback/Erase Head• **Test Tape**

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

Tape Speed Adjustment**Procedure:**

Mode: playback

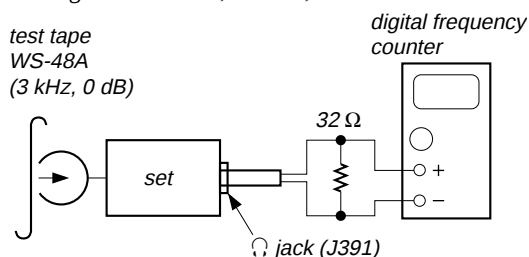
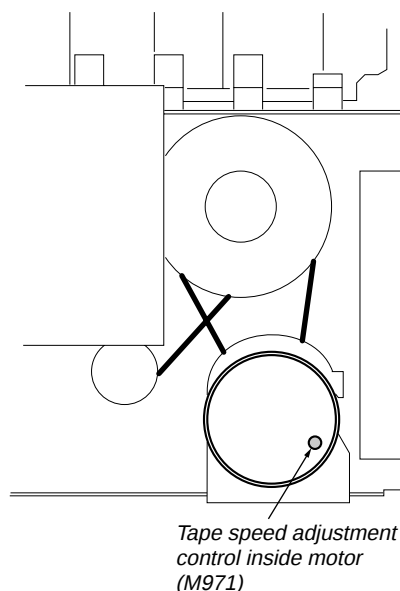
Adjust so that the value on the digital frequency counter is 3,000 Hz.

Specification Value:

Digital frequency counter
2,940 to 3,060 Hz

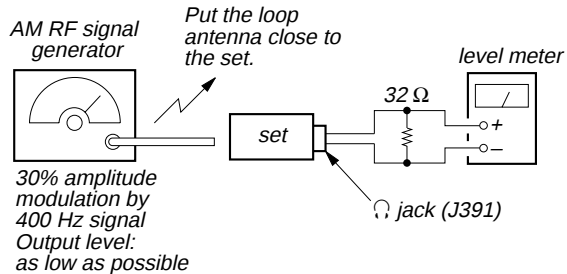
Adjust so that the frequency at the beginning and that at the end of tape winding are between 2,970 to 3,030 Hz.

test tape
WS-48A
(3 kHz, 0 dB)

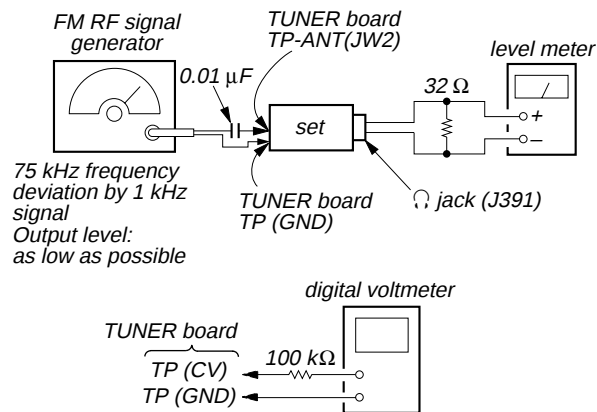
**Adjustment Location:**

TUNER SECTION0 dB = 1 μ V• **AM Section****Setting:**

RADIO BAND•AUTO PRESET button: AM

• **FM Section****Setting:**

RADIO BAND•AUTO PRESET 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 (SP, E41, AUS)

Frequency Display	531 kHz	1,611 kHz
Reading on Digital voltmeter	1.0 $\pm$ 0.05 V	5.0 $\pm$ 0.7 V
Adjustment Part	L4	<confirmation>

AM FREQUENCY COVERAGE ADJUSTMENT (EXCEPT SP, E41, AUS)

Frequency Display	530 kHz	1,710 kHz
Reading on Digital voltmeter	1.0 $\pm$ 0.05 V	5.2 $\pm$ 0.7 V
Adjustment Part	L4	<confirmation>

AM TRACKING ADJUSTMENT (SP, E41, AUS)

Adjust for a maximum reading on level meter.

L3

CT3

621 kHz

1,404 kHz

AM TRACKING ADJUSTMENT (EXCEPT SP, E41, AUS)

Adjust for a maximum reading on level meter.

L3

CT3

620 kHz

1,400 kHz

FM IF ADJUSTMENT

Adjust for a maximum reading on level meter.

T2

10.7 MHz

FM FREQUENCY COVERAGE ADJUSTMENT

Frequency Display	87.5 MHz	108 MHz
Reading on Digital voltmeter	1.3 $\pm$ 0.3 V	3.0 $\pm$ 0.2 V
Adjustment Part	<confirmation>	L2

FM TRACKING ADJUSTMENT

Adjust for a maximum reading on level meter.

L1

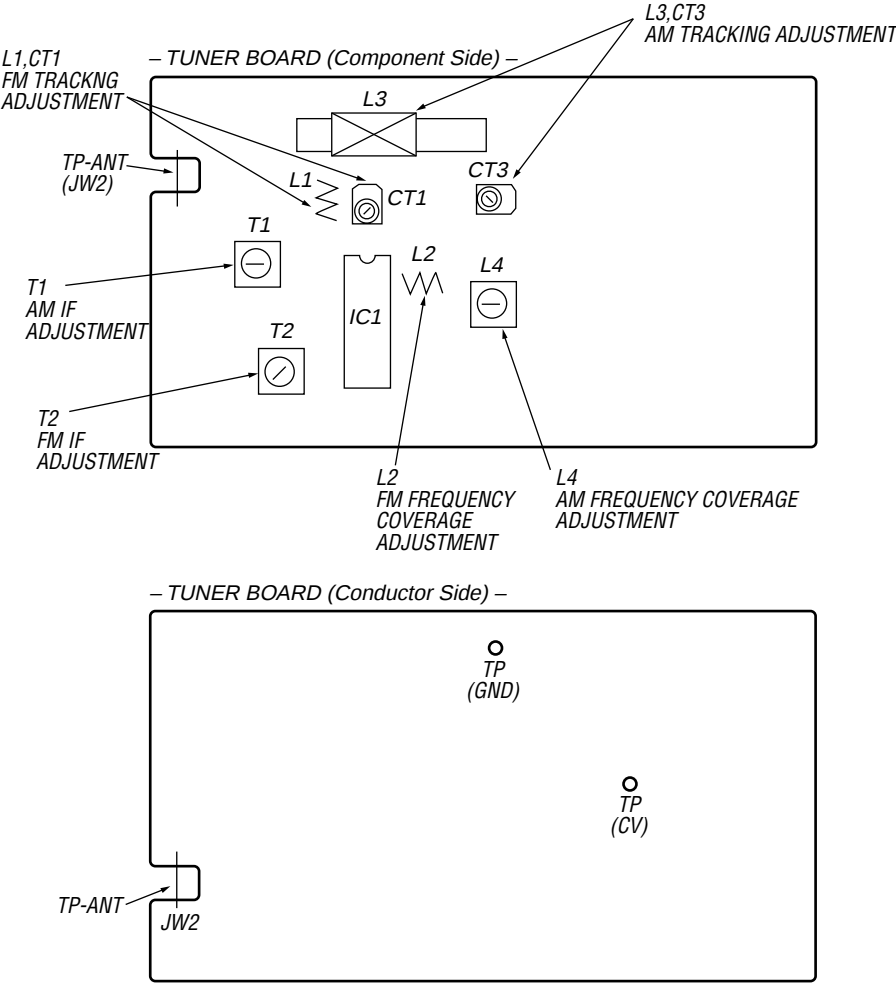
CT1

87.5 MHz

108 MHz

Adjustment Location: See page 26.

Adjustment Location:



SECTION 7
DIAGRAMS

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

For Schematic Diagrams.

Note:

- All capacitors are in μF unless otherwise noted. (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 component.
- $\square$: panel designation.

Note:

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

Note:

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

- $\square$: adjustment for repair.
- --- : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
 - BD90 Board – no mark : CD PLAY
 - TUNER Board – no mark : FM
() : AM
 - TC Board – no mark : FM
() : PB
< > : REC
[] : CD PLAY
 - Other Boards – no mark : CD PLAY
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - $\Rightarrow$: FM
 - $\Rightarrow$: AM
 - $\Rightarrow$: TAPE PLAY
 - $\Rightarrow$: TAPE REC
 - $\Rightarrow$: CD
 - $\Rightarrow$: LINE IN
- Abbreviation
 - AUS : Australian model.
 - CND : Canadian model.
 - E41 : AC 230 V area in E model.
 - E92 : AC 120 V area in E model.
 - MX : Mexican model.
 - SP : Singapore model.

For Printed Wiring Boards.

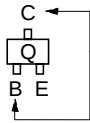
Note:

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

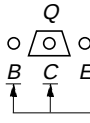
Caution:

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

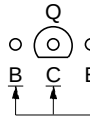
• Indication of transistor.



These are omitted.

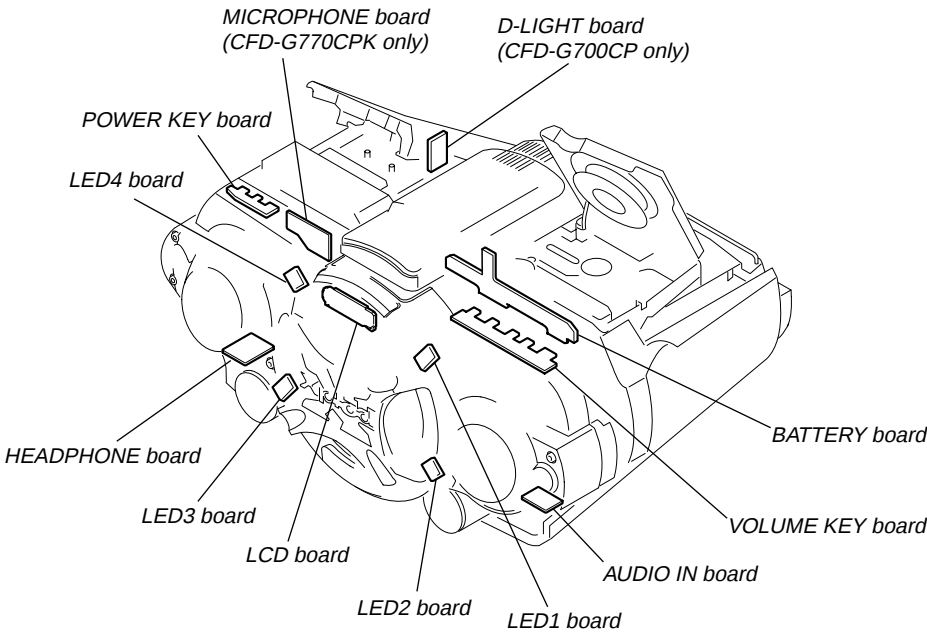
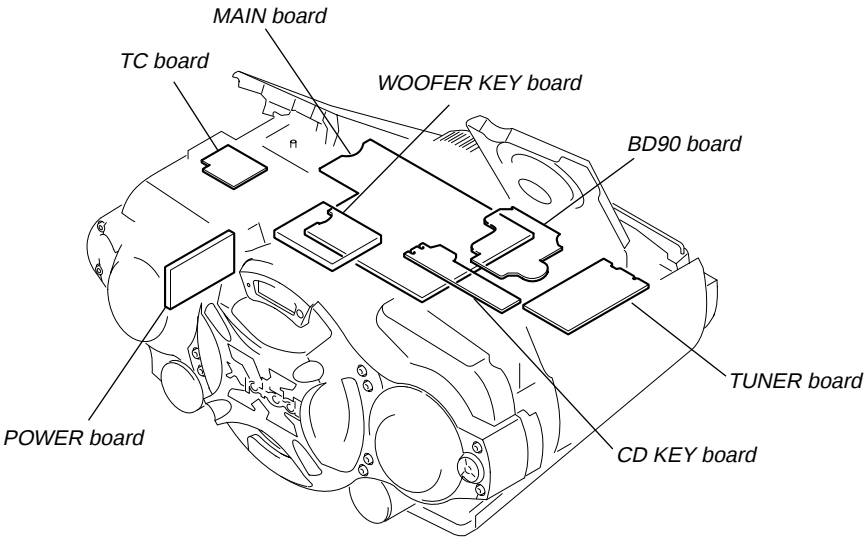


These are omitted.

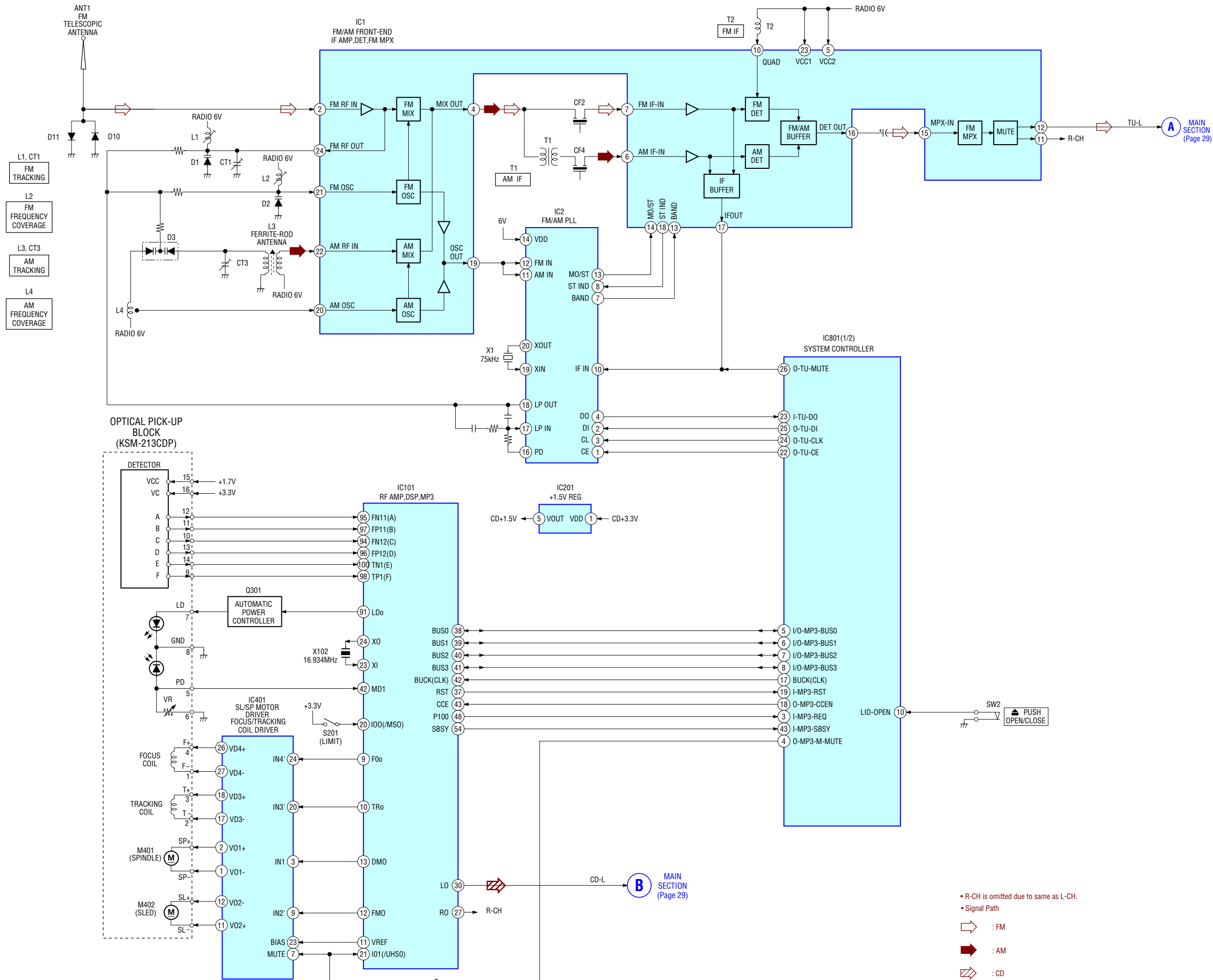


These are omitted.

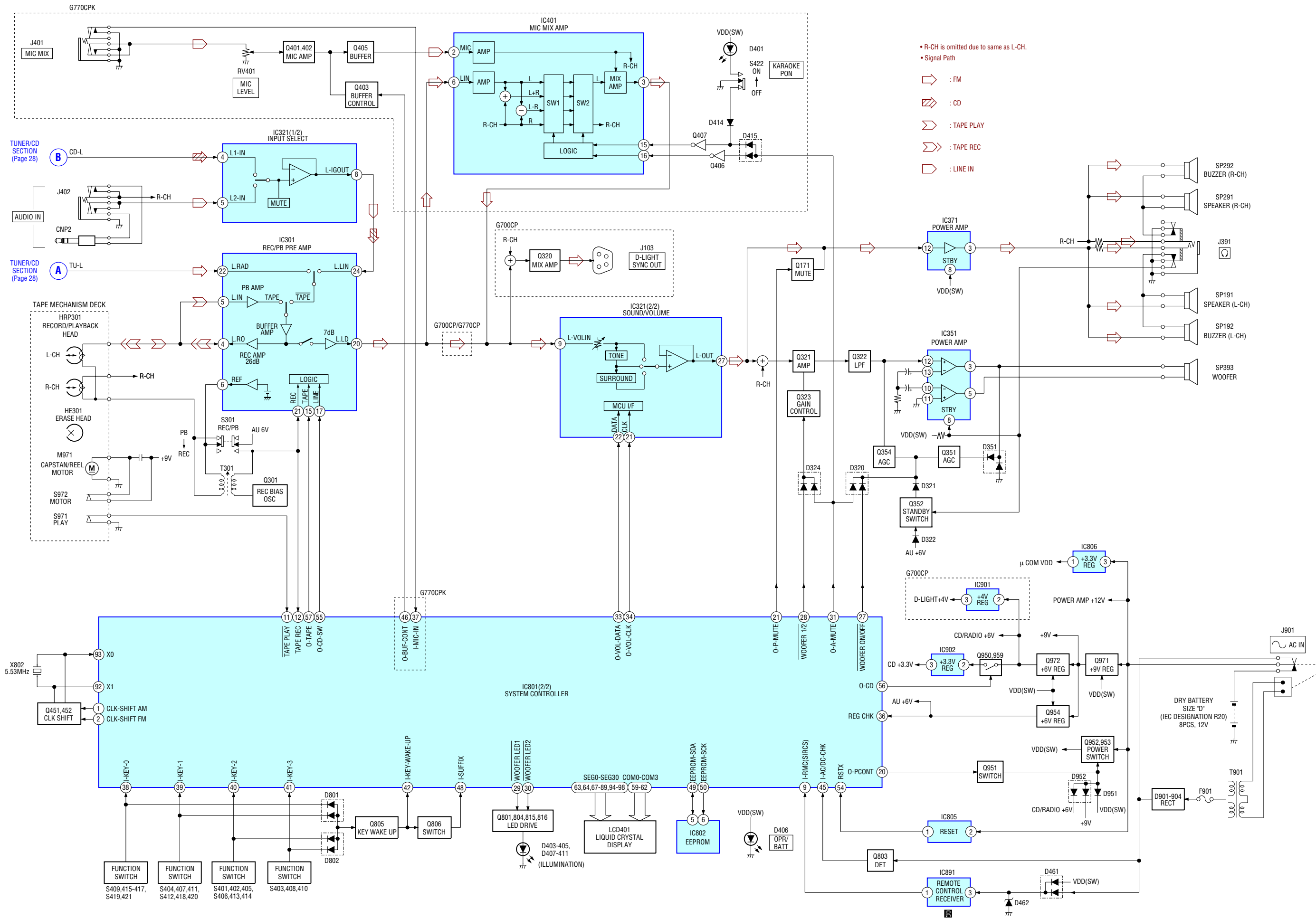
• Circuit Boards Location



7-1. BLOCK DIAGRAM – TUNER/CD SECTION –



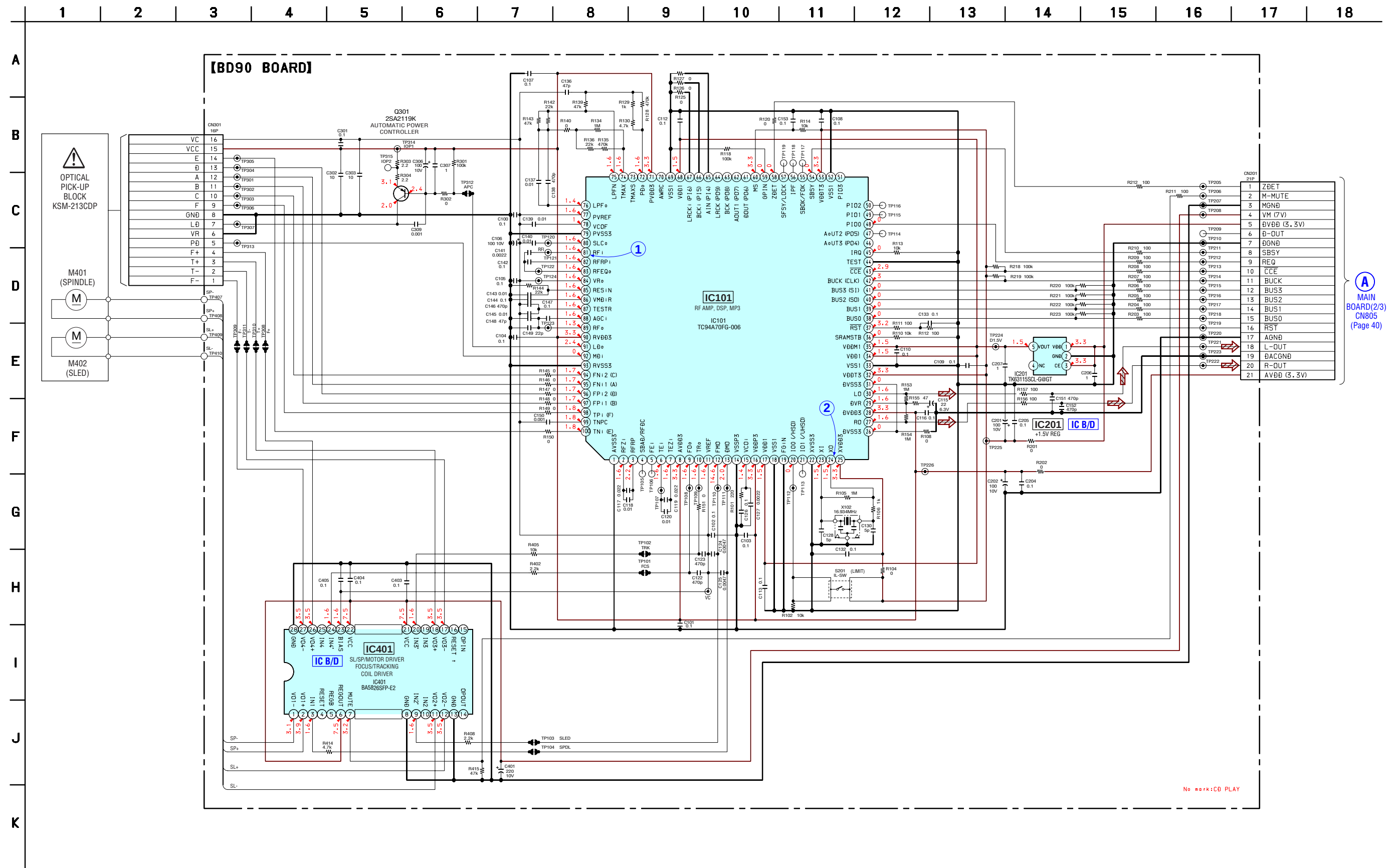
7-2. BLOCK DIAGRAM – MAIN SECTION –

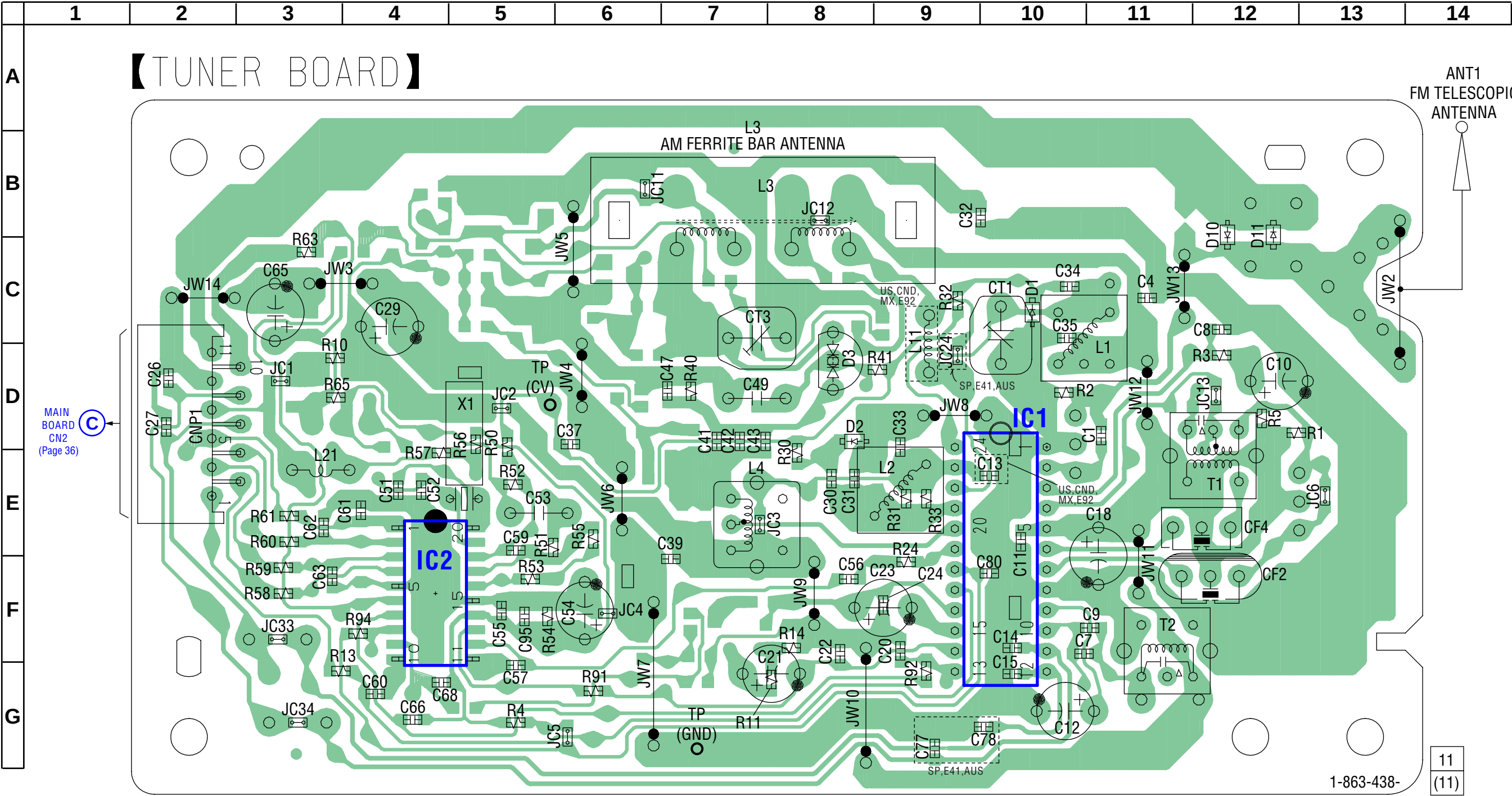


OPTICAL PICK-UP BLOCK
KSM-213CDP

Ref. No.	Location
IC101	E-9
IC201	E-2
IC401	C-10
Q301	F-4

7-4. SCHEMATIC DIAGRAM – BD90 BOARD – • See page 44 for Waveforms. • See page 44 for IC Block Diagrams. • See page 46 for IC Pin Function Description.



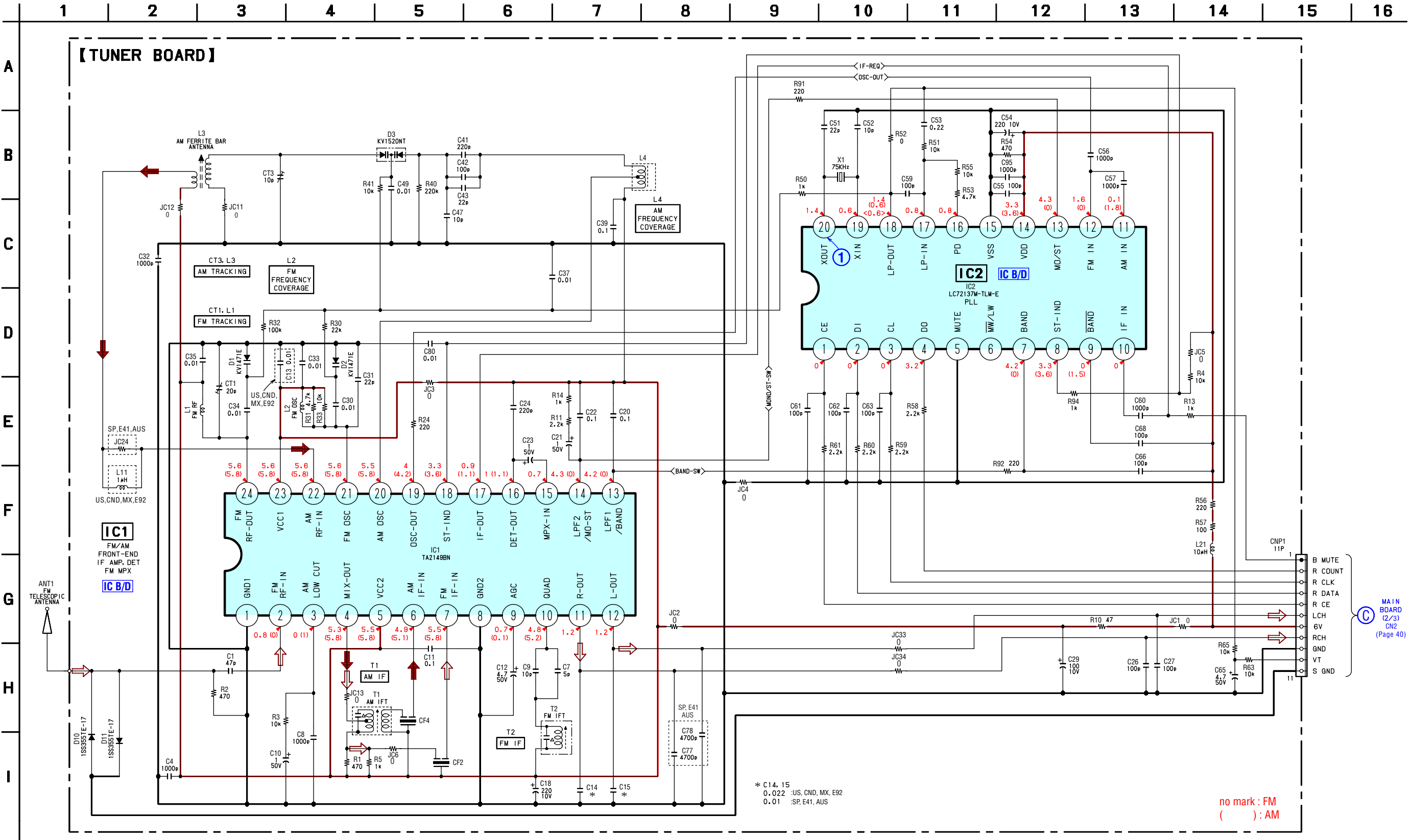


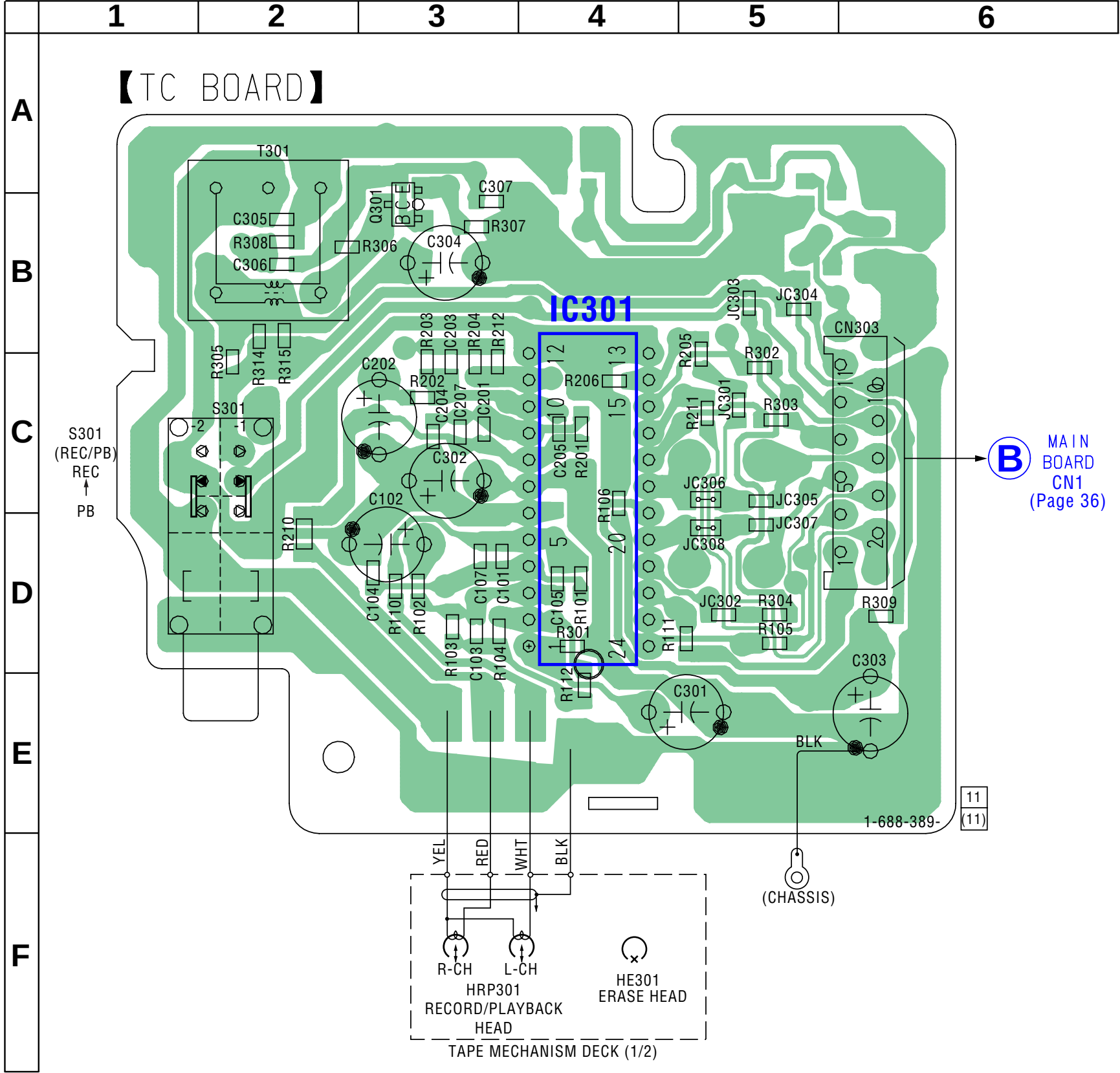
• Semiconductor Location

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

7-6. SCHEMATIC DIAGRAM – TUNER BOARD – • See page 44 for Waveforms. • See page 45 for IC Block Diagrams.

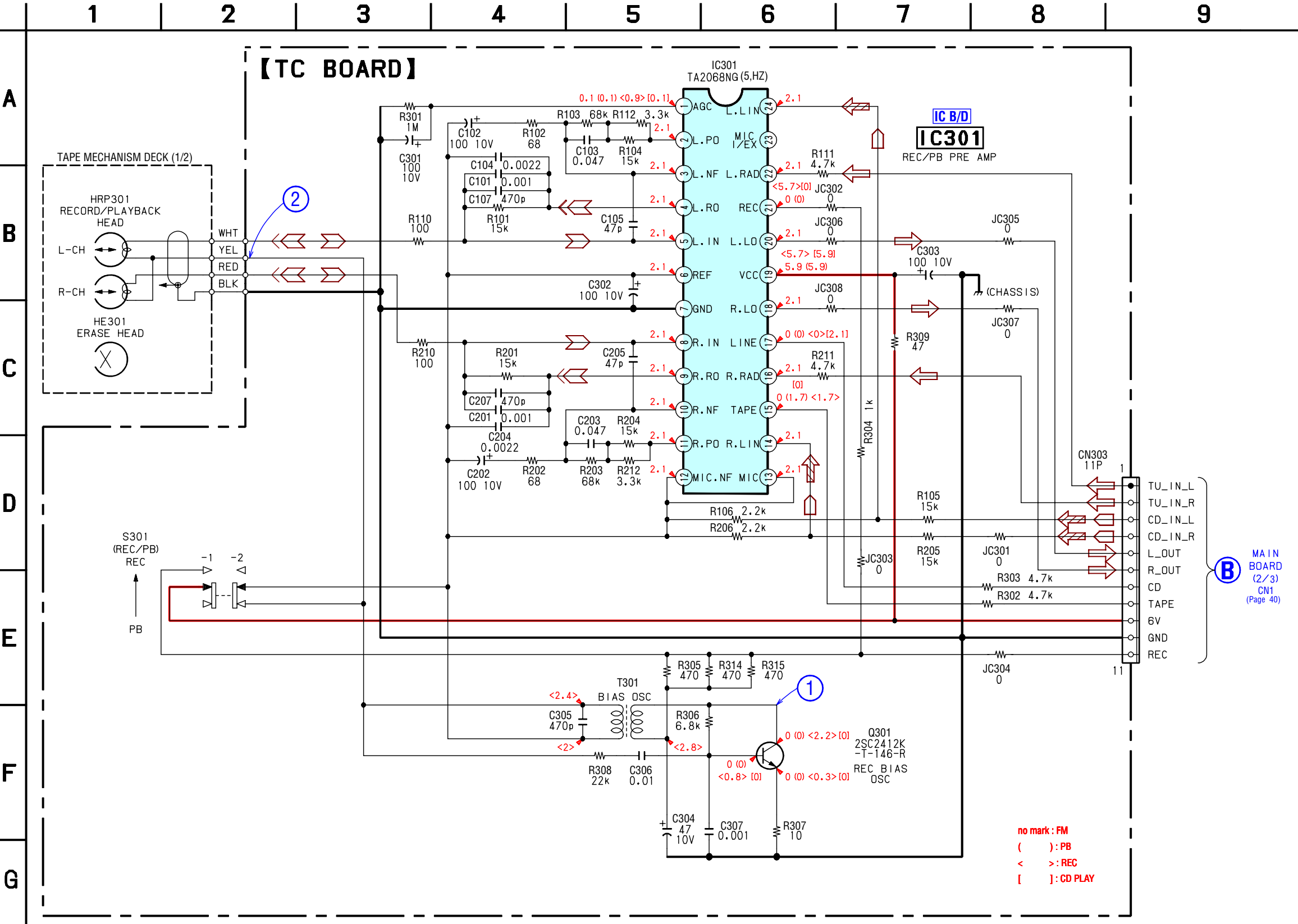
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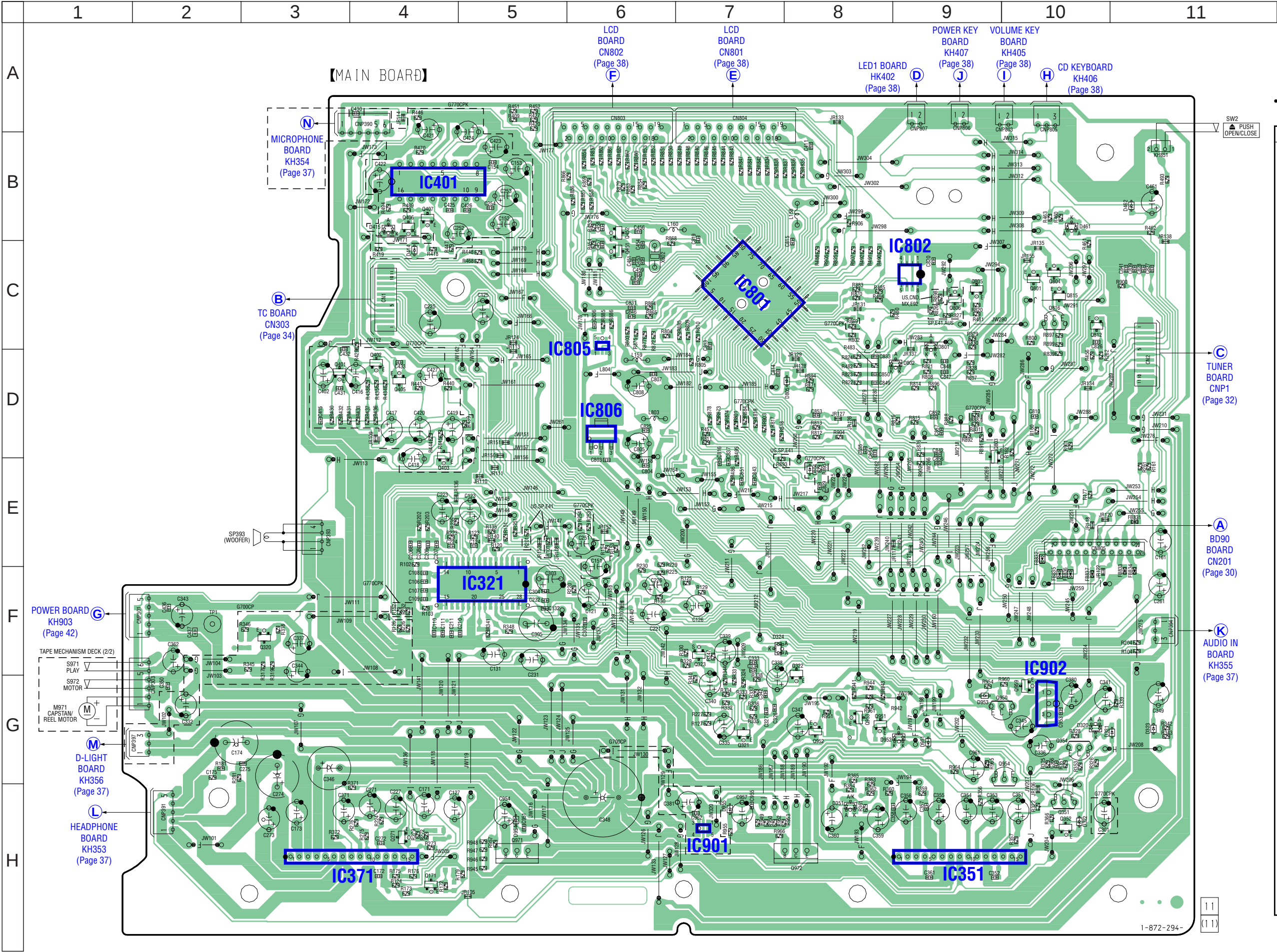




7-8. SCHEMATIC DIAGRAM – TC BOARD – • See page 44 for Waveforms. • See page 45 for IC Block Diagram.

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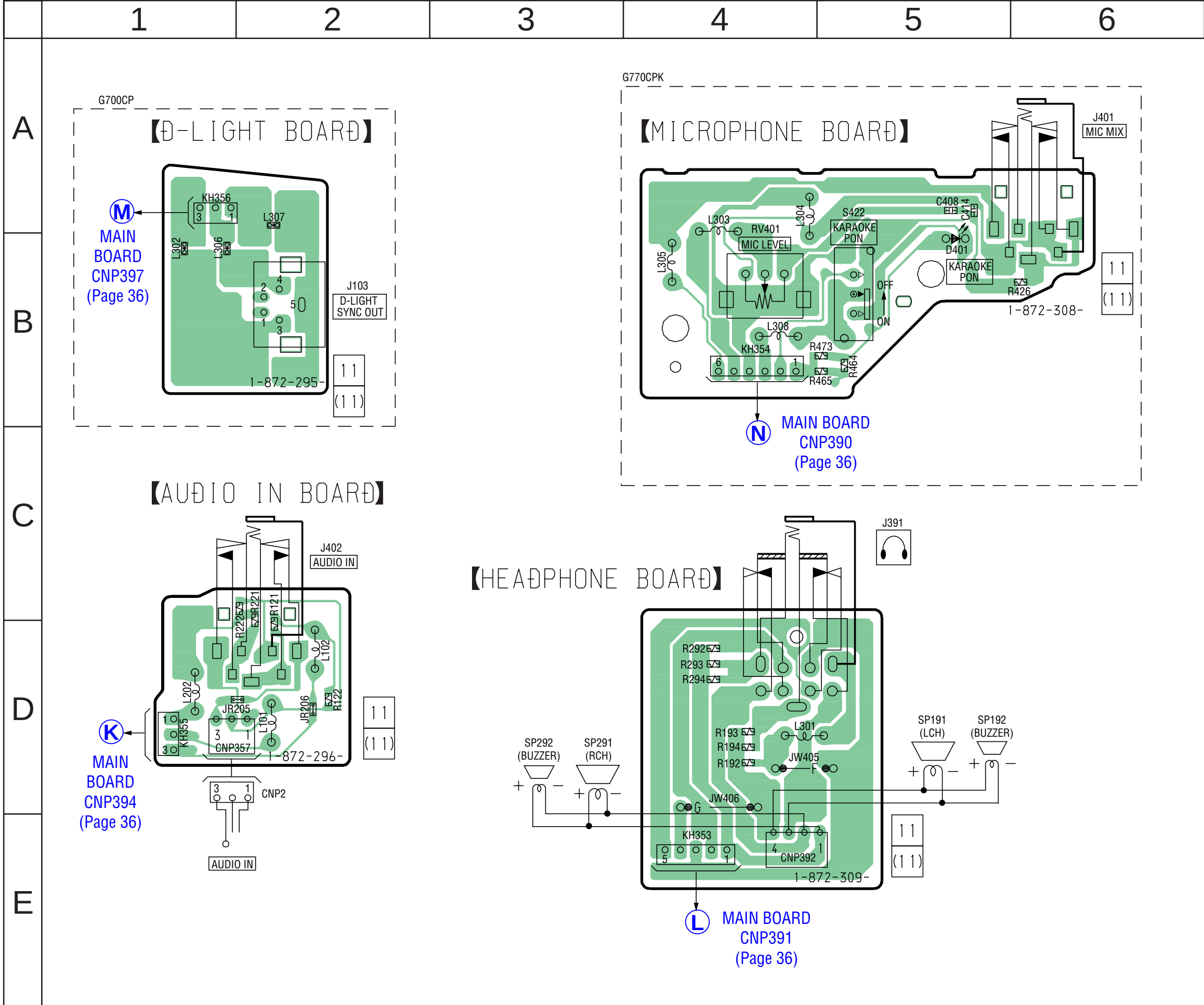


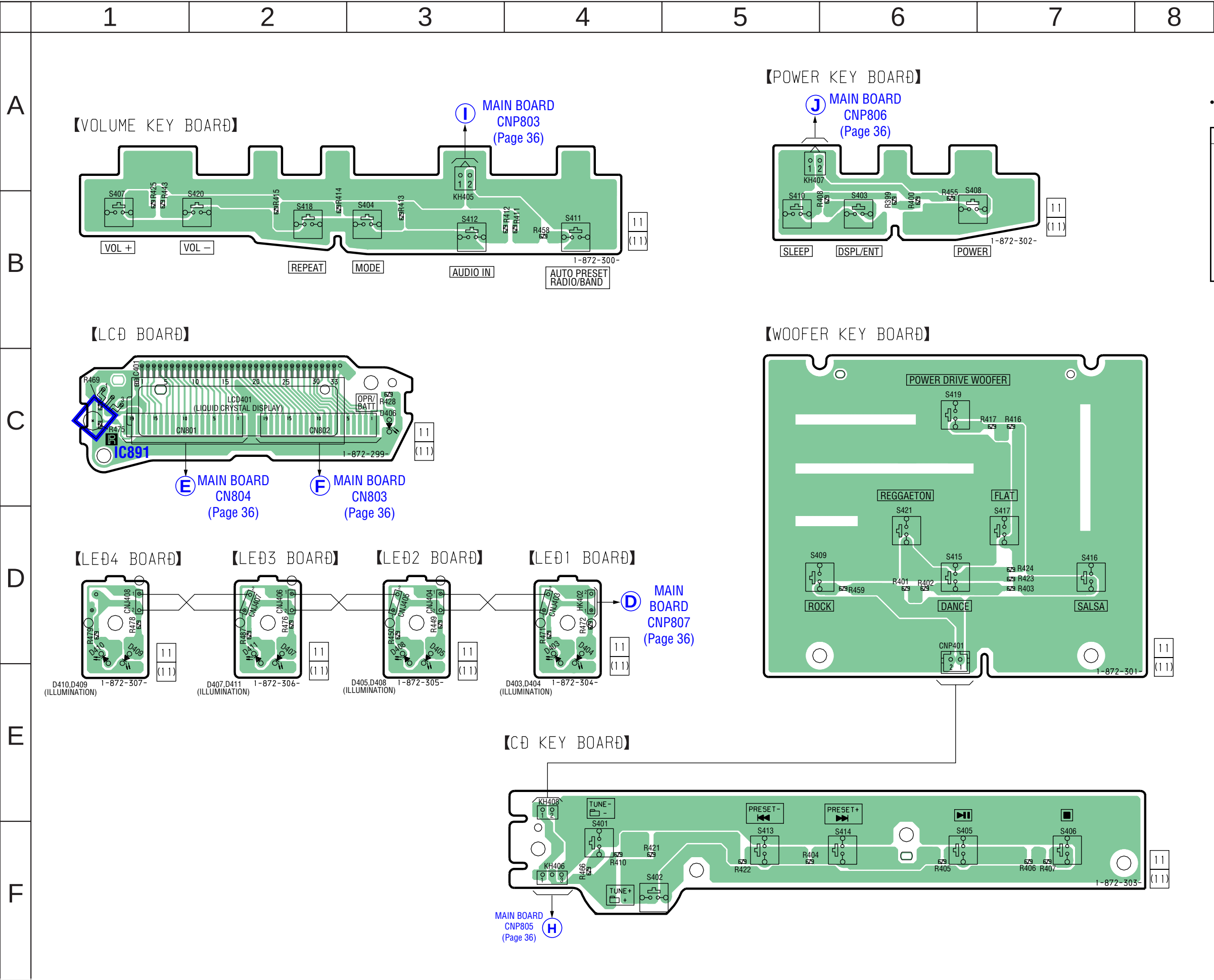
• Semiconductor Location

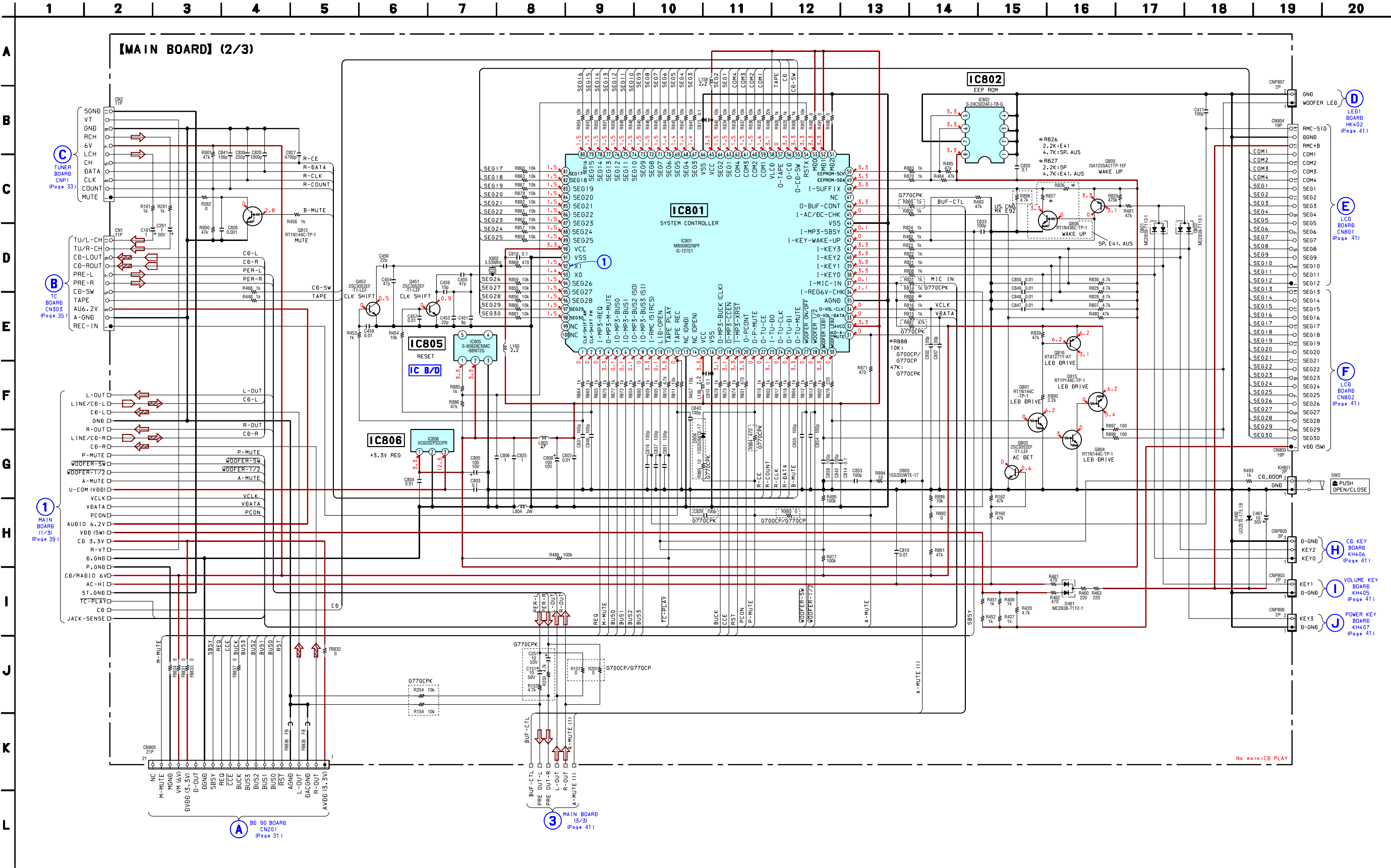
Ref. No.	Location
D320	G-10
D321	G-10
D322	H-10
D323	G-11
D324	F-7
D351	H-8
D414	C-4
D415	B-4
D461	B-10
D462	B-11
D801	C-9
D802	D-9
D804	E-8
D805	D-8
D951	G-9
D952	G-9
D953	G-9
D954	H-5
D955	H-7
IC321	F-5
IC351	H-9
IC371	H-4
IC401	B-4
IC801	C-7
IC802	C-9
IC805	C-6
IC806	D-6
IC901	H-7
IC902	G-10
Q171	H-4
Q271	H-4
Q320	F-3
Q321	G-7
Q322	F-8
Q323	F-7
Q351	H-10
Q352	H-10
Q354	G-10
Q401	D-3
Q402	D-4
Q403	D-4
Q405	D-4
Q406	B-4
Q407	B-4
Q451	C-6
Q452	B-6
Q801	C-10
Q803	D-9
Q804	C-10
Q805	C-9
Q806	C-9
Q812	C-10
Q815	C-10
Q816	C-10
Q950	G-10
Q951	G-8
Q952	G-8
Q953	G-8
Q954	G-10
Q959	G-10
Q971	H-5
Q972	H-8

7-10. PRINTED WIRING BOARDS – AUDIO SECTION – • See page 27 for Circuit Boards Location. • :Uses unleaded solder.

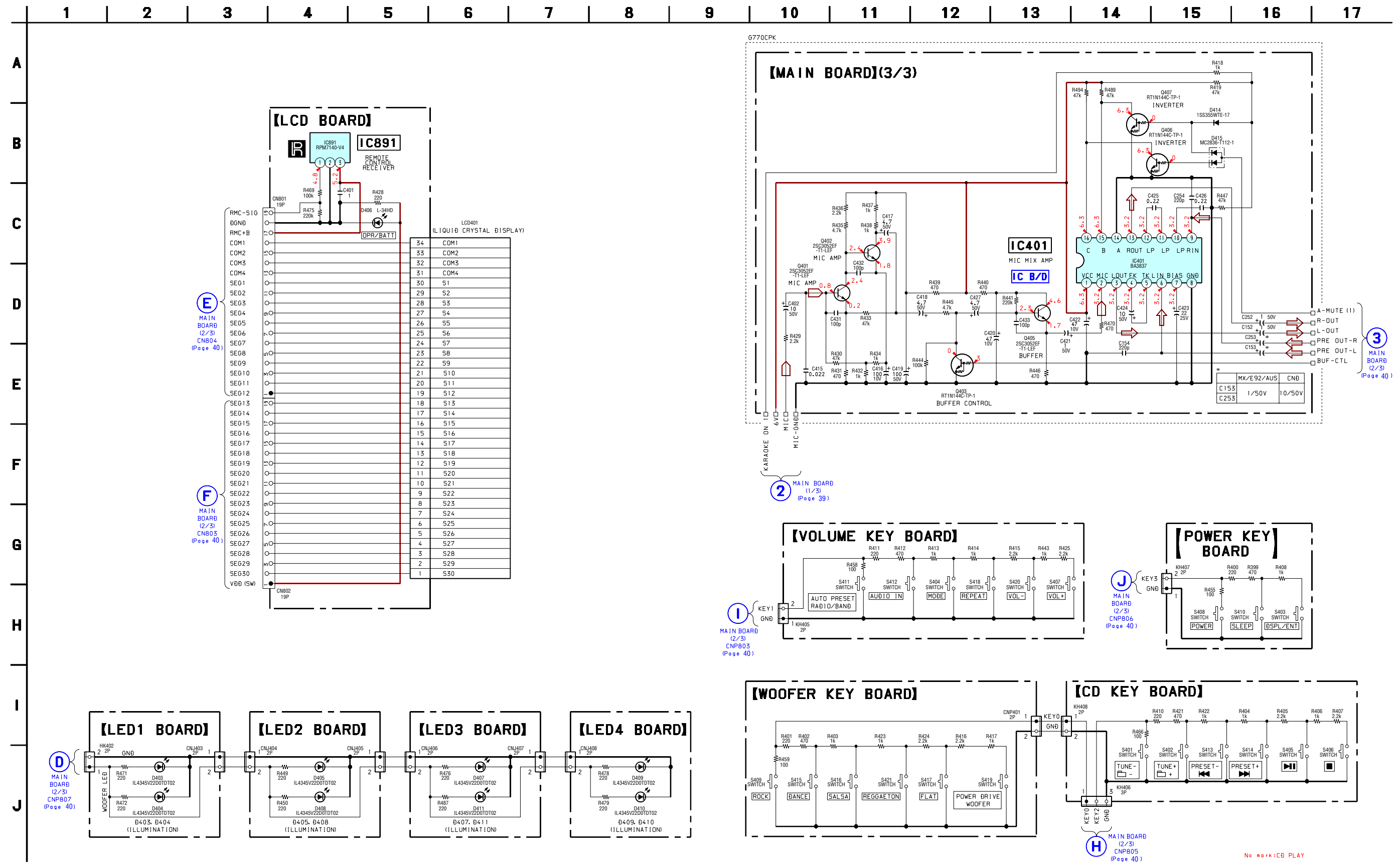
www.DataSheet4U.com

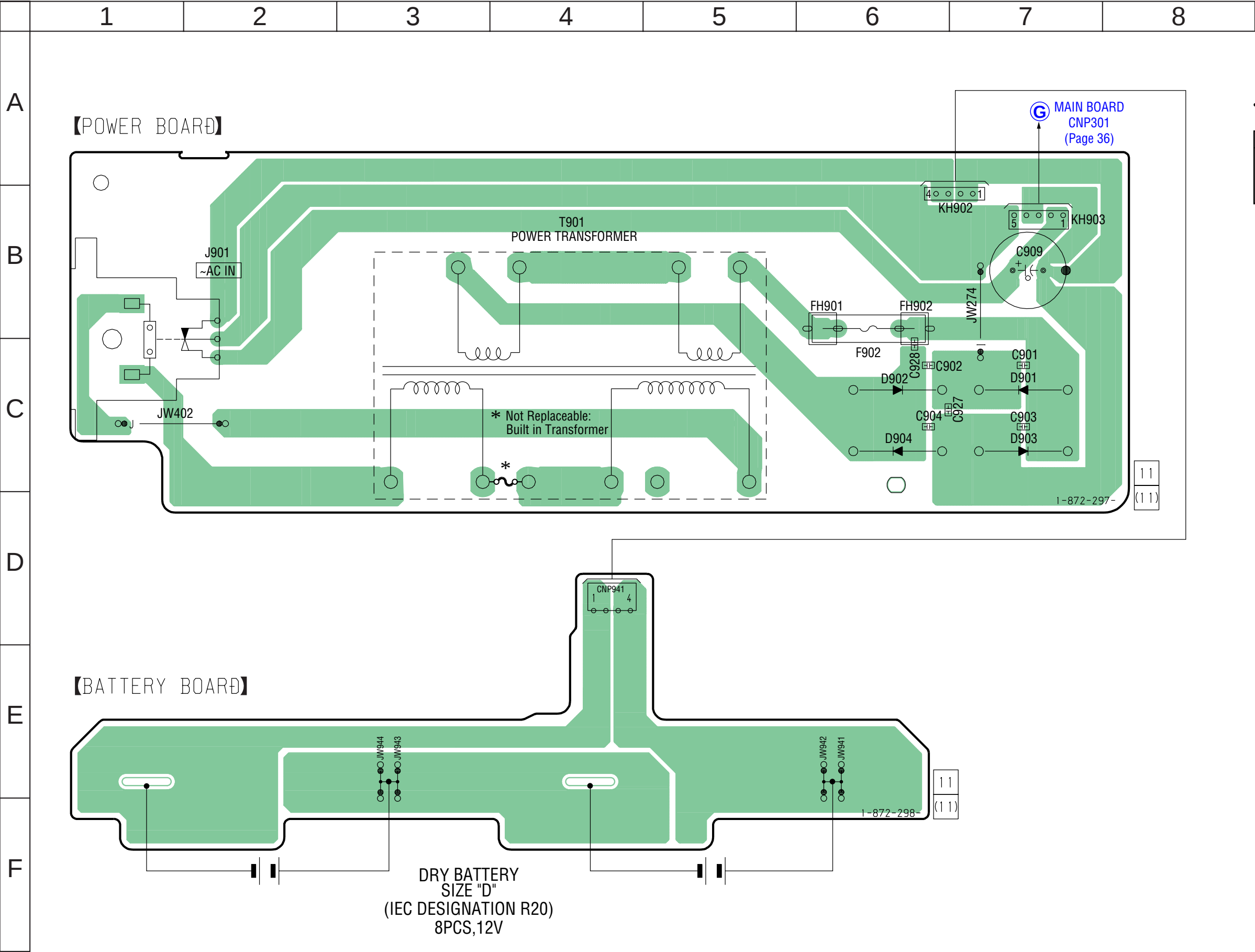






7-14. SCHEMATIC DIAGRAM – MAIN (3/3), CONTROL SECTION – • See page 44 for IC Block Diagram.



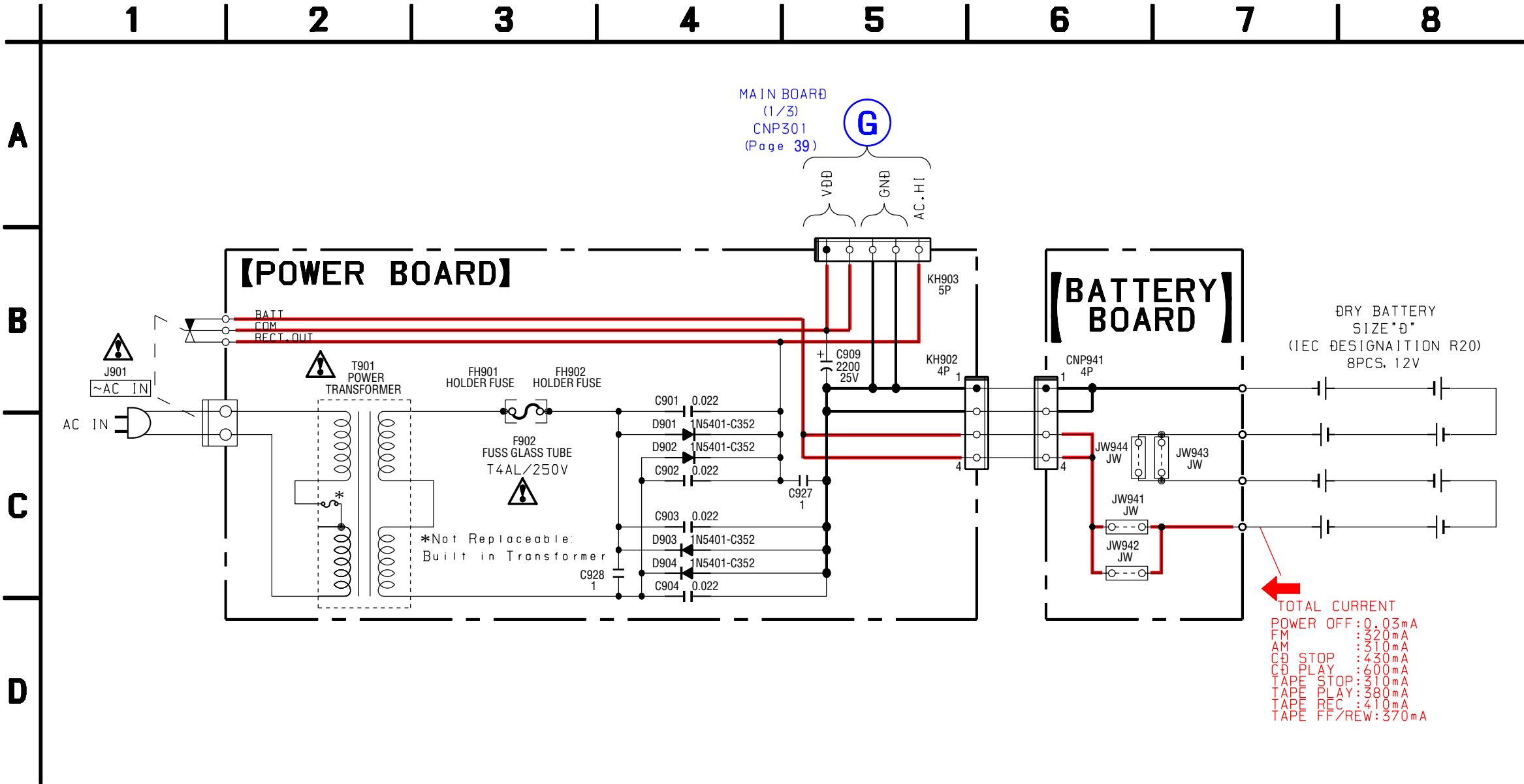


• Semiconductor Location

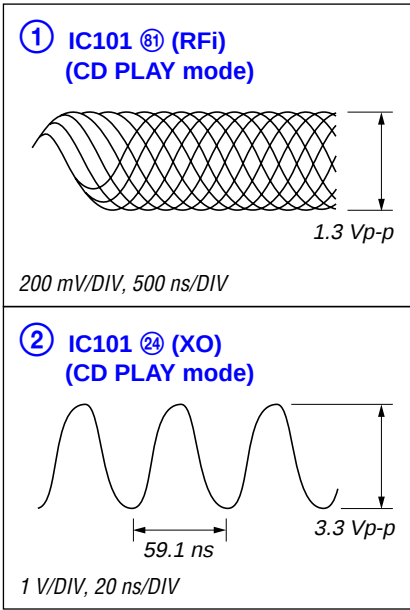
Ref. No.	Location
D901	C-7
D902	C-6
D903	C-7
D904	C-6

7-16. SCHEMATIC DIAGRAM – POWER SECTION –

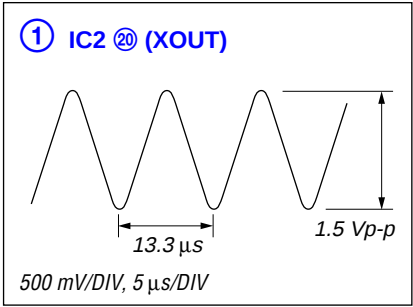
www.DataSheet4U.com



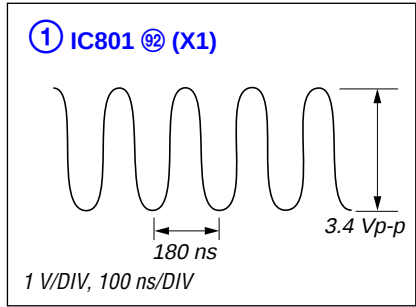
• Waveforms
– BD90 Board –



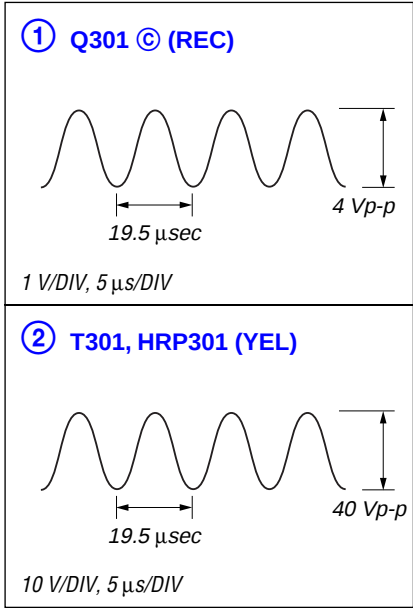
– TUNER Board –



– MAIN Board –

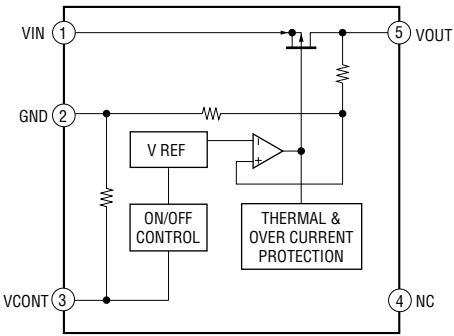


– TC Board –

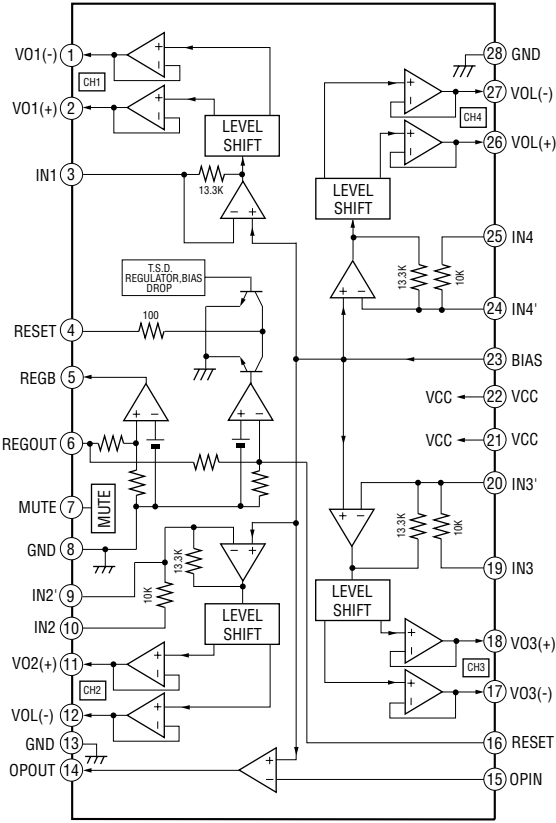


• IC Block Diagrams
– BD90 Board –

IC201 TK63115SCL-G@GT

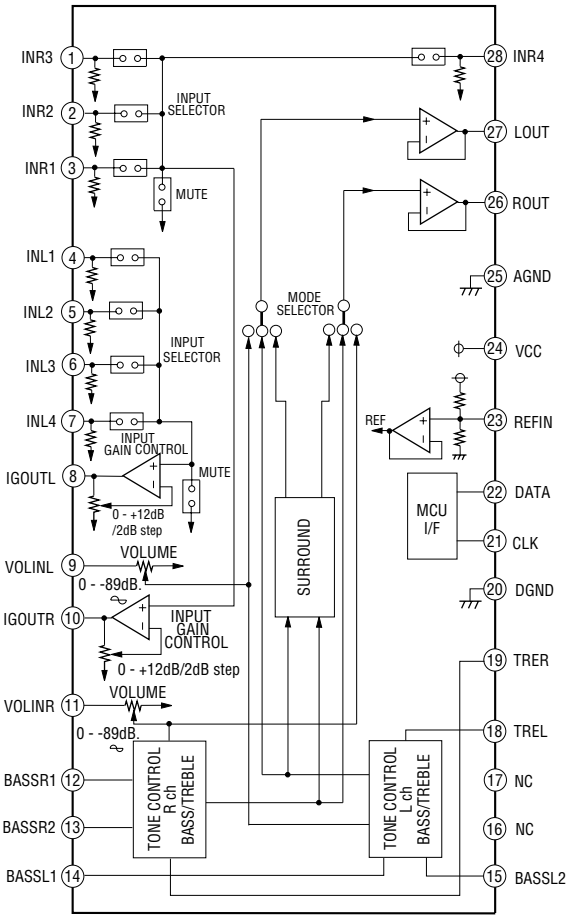


IC401 BA5826SFP-E2

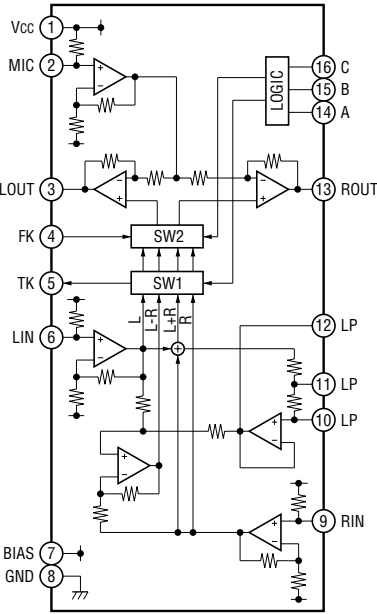


– MAIN Board –

IC321 R2S15904SP

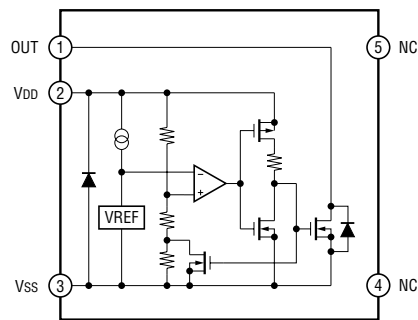


IC401 BA3837



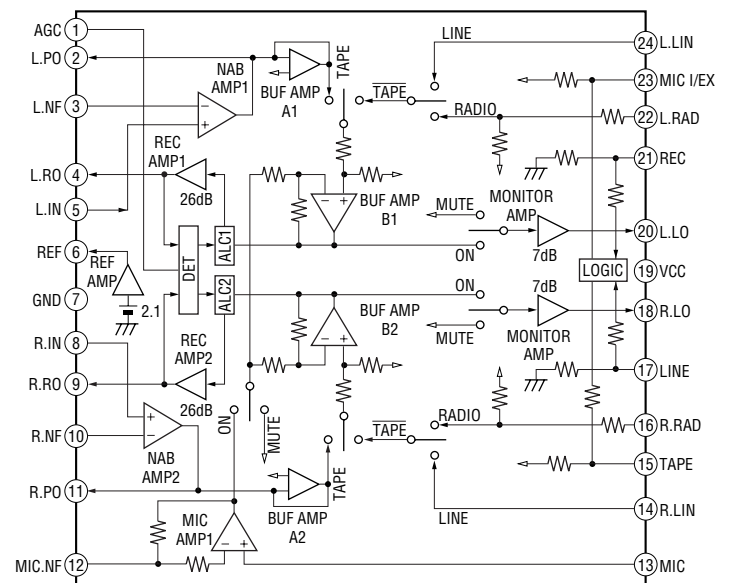
- MAIN Board -

IC805 S-80828CNMC-B8NT2G



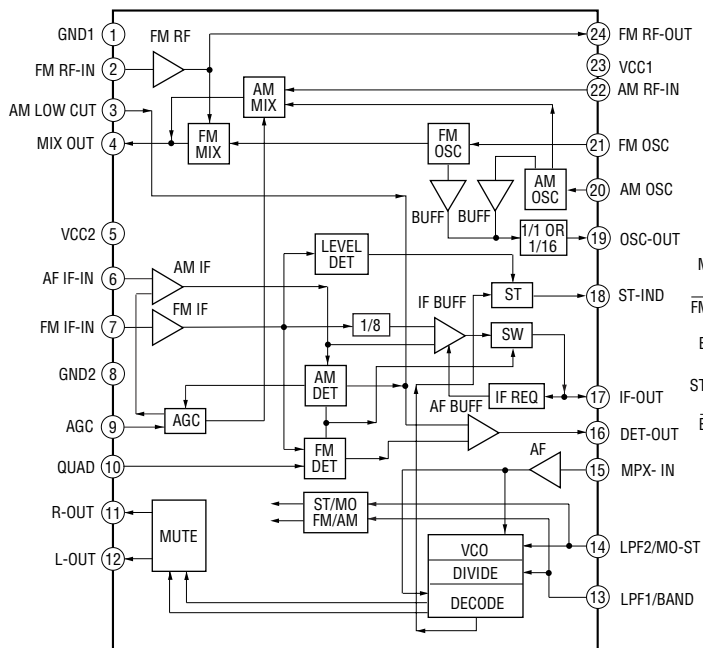
- TC Board -

IC301 TA2068N (5, HZ)

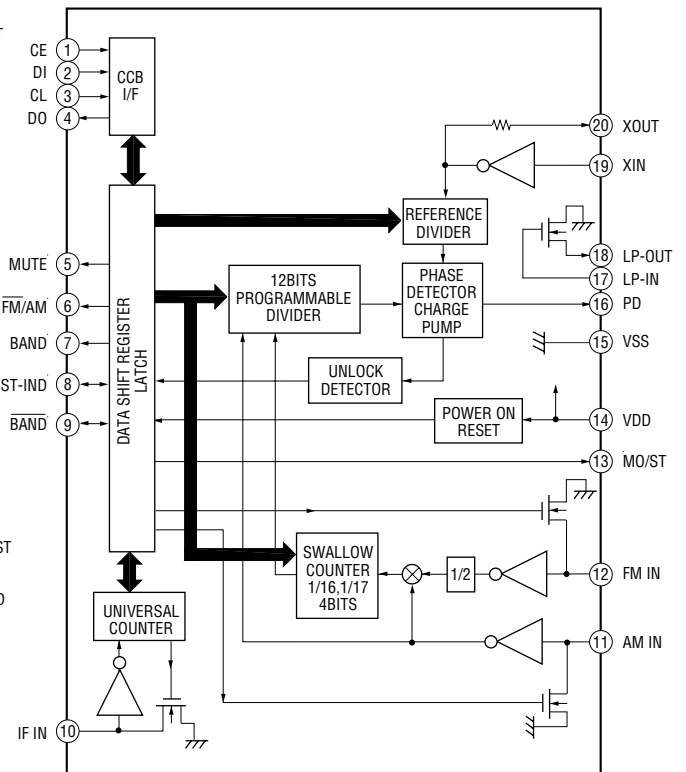


- TUNER Board -

IC1 TA2149BN



IC2 LC72137M-TLM-E



• IC Pin Function Description

BD90 BOARD IC101 TC94A70FG-006 (RF AMP, DSP, MP3)

Pin No.	Pin Name	I/O	Description
1	AVSS3	—	Ground terminal (Used CD analog 3.3V)
2	RFZi	I	RF ripple zero cross signal input terminal
3	RFRP	O	RF ripple signal output terminal (Used zero cross)
4	SBAD/RFDC	O	Not used (Open)
5	FEi	O	Not used (Open)
6	TEi	O	Tracking error signal output terminal (Not used (Open))
7	TEZi	I	Tracking error signal input terminal (Used zero cross)
8	AVDD3	—	Power supply terminal (Used CD analog 3.3V)
9	FOo	O	Focus servo equalizer output terminal
10	TRo	O	Tracking servo equalizer output terminal
11	VREF	—	REF of analog power supply terminal
12	FMO	O	Feed servo equalizer output terminal
13	DMO	O	Disc servo equalizer output terminal
14	VSSP3	—	Ground terminal (Used DSP VOC 3.3V)
15	VCOi	O	PD output terminal (Used VCO)
16	VDDP3	—	Power supply terminal (Used DSP VCO 3.3V)
17	VDD1	—	Power supply terminal (Used digital 1.5V)
18	VSS1	—	Ground terminal (Used digital 1.5V)
19	FGiN	I	FG signal input terminal (Used CAV) (Not used (Fixed to “L”))
20	Io0(HSo)	I	Play speed mode flag input terminal
21	Io1(UHSo)	I	Not used (Open)
22	XVSS3	—	Ground terminal (Used system clock 3.3V)
23	Xi	I	System clock input terminal (16.934MHz)
24	Xo	O	System clock output terminal (16.934MHz)
25	XVDD3	—	Power supply terminal (Used system clock 3.3V)
26	DVSS3	—	Ground terminal (Used DAC)
27	Ro	O	Audio R-ch data output terminal
28	DVDD3	—	Power supply terminal (Used DAC 3.3V)
29	DVR	—	REF voltage terminal (Used DAC)
30	Lo	O	Audio L-ch data output terminal
31	DVSS3	—	Ground terminal (Used DAC 3.3V)
32	VDDT3	—	Power supply terminal (Used Digital I/O 3.3V)
33	VSS1	—	Ground terminal (Used Digital 3.3V)
34	VDD1	—	Power supply terminal (Used digital 1.5V)
35	VDDM1	—	Power supply terminal (Used 1M bit SRAM 1.5V)
36	SRAMSTB	I	1M bit SRAM standby input terminal (Not used (Fixed to “L”))
37	$\overline{\text{RST}}$	I	Reset signal input terminal
38	BUS0	I	Data input terminal (BUS line)
39	BUS1	I	Data input terminal (BUS line)
40	BUS2(So)	I	Data input terminal (Serial output)
41	BUS3(Si)	I	Data input terminal (Serial input)
42	BUCK(CLK)	I	BUS clock input terminal (Serial clock input)
43	$\overline{\text{CCE}}$	I	Clip enable input terminal (U-com interface)
44	TEST	I	Test setting terminal (Not used (Fixed to “L”))
45	IRQ	I	Cut in DSP input terminal (Not used (Fixed to “L”))
46	AoUT3(Po4)	O	Not used (Open)
47	AoUT2(Po5)	O	Not used (Open)

Pin No.	Pin Name	I/O	Description
48	Pio0	O	REQ output terminal
49	Pio1	I	Not used (Open)
50	Pio2	I	Not used (Open)
51	Pio3	I	Not used (Open)
52	VSS1	—	Ground terminal (Digital 3.3V)
53	VDDT3	—	Power supply terminal (Digital I/O 3.3V)
54	SBSY	O	Sub code block sync output terminal
55	SBOK/FOK	O	Not used (Open)
56	IPF	O	Not used (Open)
57	SFSY/LOCK	O	Not used (Open)
58	ZDET	O	DAC zero data detect flag output terminal (Not used (Open))
59	GPIN	I	General purpose input terminal (Not used (Fixed to “L”))
60	MS	I	U-com I/F mode select input terminal (Fixed to “H”)
61	DoUT(Po6)	O	Not used (Open)
62	AoUT1(Po7)	O	Not used (Open)
63	BCK(Po8)	O	Not used (Open)
64	LRCK(Po9)	O	Not used (Open)
65	AiN(Pi4)	I	Data input terminal (Used DAC) (Not used (Fixed to “L”))
66	BCKi(Pi5)	I	Bit clock input terminal (Used DAC) (Not used (Fixed to “L”))
67	LRCKi(Pi6)	I	Channel clock input terminal (Used DAC) (Not used (Fixed to “L”))
68	VDD1	—	Power supply terminal (Digital 1.5V)
69	VSS1	—	Ground terminal (Digital 1.5V)
70	AWRC	O	Not used (Open)
71	PVDD3	—	Power supply terminal (PLL 3.3V)
72	PDo	O	Phase error signal of EFM signal and PLCK signal output terminal
73	TMAXS	O	Not used (Open)
74	TMAX	O	Output terminal of TMAX detect signal
75	LPFN	I	Reverse input terminal of AMP (PLL-LPF)
76	LPFo	O	Output terminal of AMP (PLL-LPF)
77	PVREF	—	1.65V REF power terminal (Only PLL)
78	VCoF	O	VCO filter output terminal
79	PVSS3	—	Ground terminal (PLL 3.3V)
80	SLCo	O	EFM slice level output terminal
81	RFi	I	RF signal input terminal
82	RFRPi	I	RF ripple signal input terminal
83	RFEQo	O	RF equalizer output terminal
84	VRo	O	1.65V REF voltage output terminal
85	RESiN	O	REF resister terminal (22k/0.01u)
86	VMDiR	—	REF voltage of APC circuit output terminal
87	TESTR	O	LPF terminal (RFEQO offset correct)
88	AGCi	I	RF signal adjustment AMP input terminal
89	RFo	O	RF signal AMP output terminal
90	RVDD3	—	3.3V Power supply terminal (RF AMP)
91	LDo	O	Laser diode AMP output terminal
92	MDi	I	Monitor photo diode AMP input terminal
93	RVSS3	—	Ground terminal (RF AMP 3.3V)
94	FNi2(C)	I	Main beam input terminal (Connect to pin diode C)
95	FNi1(A)	I	Main beam input terminal (Connect to pin diode A)
96	FPi2(D)	I	Main beam input terminal (Connect to pin diode D)

Pin No.	Pin Name	I/O	Description
97	FPi1(B)	I	Main beam input terminal (Connect to pin diode B)
98	TPi(F)	I	Sub beam AMP input terminal (Connect to pin diode F)
99	TNPC	O	Capacitor connect terminal to the middle point of TNI/TPI input register
100	TNi(E)	I	Sub beam AMP input terminal (Connect to pin diode E)

MAIN BOARD IC801 MB90802NPF-G-127E1 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	CLK-SHIFT_AM	O	Clock shift signal output for AM radio
2	CLK-SHIFT_FM	O	Clock shift signal output for FM radio
3	I-MP3-REQ	I	Request signal input from CD-DSP-MP3 decoder (IC101)
4	O-MP3-M-MUTE	O	Mute signal output to Spindle and Sliding motor driver (IC401)
5 to 8	I/O-MP3-BUS0 I/O-MP3-BUS1 I/O-MP3-BUS2(SO) I/O-MP3-BUS3(SI)	I/O	Two-way data bus for CD-DSP-MP3 decoder (IC101)
9	I-RMC (SRCS)	I	SIRCS remote control signal input
10	LID-OPEN	I	CD lid open detect signal input
11	$\overline{\text{TAPE PLAY}}$	I	Tape PLAY detect signal input
12	TAPE REC	I	Tape REC detect signal input
13	NC(GND)	—	Not used (Fixed to "L")
14	NC(OPEN)	—	Not used (Open)
15	VCC	—	Power supply terminal (+3.3V)
16	VSS	—	Ground terminal
17	O-MP3-BUCK(CLK)	O	Bus clock signal output to CD-DSP-MP3 decoder (IC101)
18	$\overline{\text{O-MP3-CCEN}}$	O	Chip enable signal output to CD-DSP-MP3 decoder (IC101)
19	$\overline{\text{O-MP3-XRST}}$	O	Reset signal output to CD-DSP-MP3 decoder (IC101)
20	O-PCONT	O	Power control signal output (H:ON)
21	O-P-MUTE	O	Mute signal output to power amplifier
22	O-TU-CE	O	Chip enable signal output to Tuner PLL (IC2)
23	I-TU-DO	I	Serial data input from Tuner PLL (IC2)
24	O-TU-CLK	O	Serial clock signal output to Tuner PLL (IC2)
25	O-TU-DI	O	Serial data output to Tuner PLL (IC2)
26	O-TU-MUTE	O	Mute signal output to Tuner PLL (IC2)
27	$\overline{\text{WOOFER_ON/OFF}}$	O	Woofer control signal output (H:ON/L:OFF)
28	$\overline{\text{WOOFER_1/2}}$	O	Woofer level control signal output (H:Level-2, L:Level-1)
29	$\overline{\text{WOOFER_LED1}}$	O	Woofer LED control signal output (H:Level-1)
30	$\overline{\text{WOOFER_LED2}}$	O	Woofer LED control signal output (H:Level-2)
31	O-A-MUTE	O	Mute signal output
32	AVCC	—	Power supply terminal (+3.3V)
33	O-VOL-DATA	O	Serial data output to EVR (IC321)
34	O-VOL-CLK	O	Serial clock output to EVR (IC321)
35	AVSS	—	Ground terminal
36	I-REG6V-CHK	I	6V regulator check input
37	I-MIC-IN	I	MIC input detect (H:Detect)
38 to 41	I-KEY0-3	I	Key input
42	I-KEY-WAKE-UP	I	Key wake-up input
43	I-MP3-SBSY	I	Sub code block sync input terminal
44	VSS	—	Ground terminal
45	I-AC/DC-CHK	I	AC/DC detect (L:AC)
46	O-BUF-CONT	O	MIC buffer control signal output
47	NC	—	Not used (Open)
48	I-SUFFIX	I	Suffix control input
49	EEPROM-SDA	I/O	Serial data input/output to EEPROM (IC802)
50	EEPROM-SCK	O	Serial clock output to EEPROM (IC802)
51 to 53	MD2-0	I	Flash mask (Fixed to MD2:L, MD1:H, MD0:H)

Pin No.	Pin Name	I/O	Description
54	RSTX	I	System reset signal input
55	O-CD-SW	O	Pre-amp select signal output
56	O-CD	O	CD+3.3V regulator control signal output
57	O-TAPE	O	Pre-amp select signal output
58	VLCD	I	LCD power setting input
59 to 62	COM1-4	O	Common signal output to the LCD
63, 64	SEG1,2	O	Segment signal output to the LCD
65	VCC	—	Power supply terminal (+3.3V)
66	VSS	—	Ground terminal
67 to 89	SEG3-25	O	Segment signal output to the LCD
90	VCC	—	Power supply terminal (+3.3V)
91	VSS	—	Ground terminal
92	X1	O	Main clock output terminal (4.19MHz)
93	X0	I	Main clock input terminal (4.19MHz)
94 to 98	SEG26-30	O	Segment signal output to the LCD
99	NC	—	Not used (Open)
100	NC	—	Not used (Open)

SECTION 8

EXPLODED VIEWS

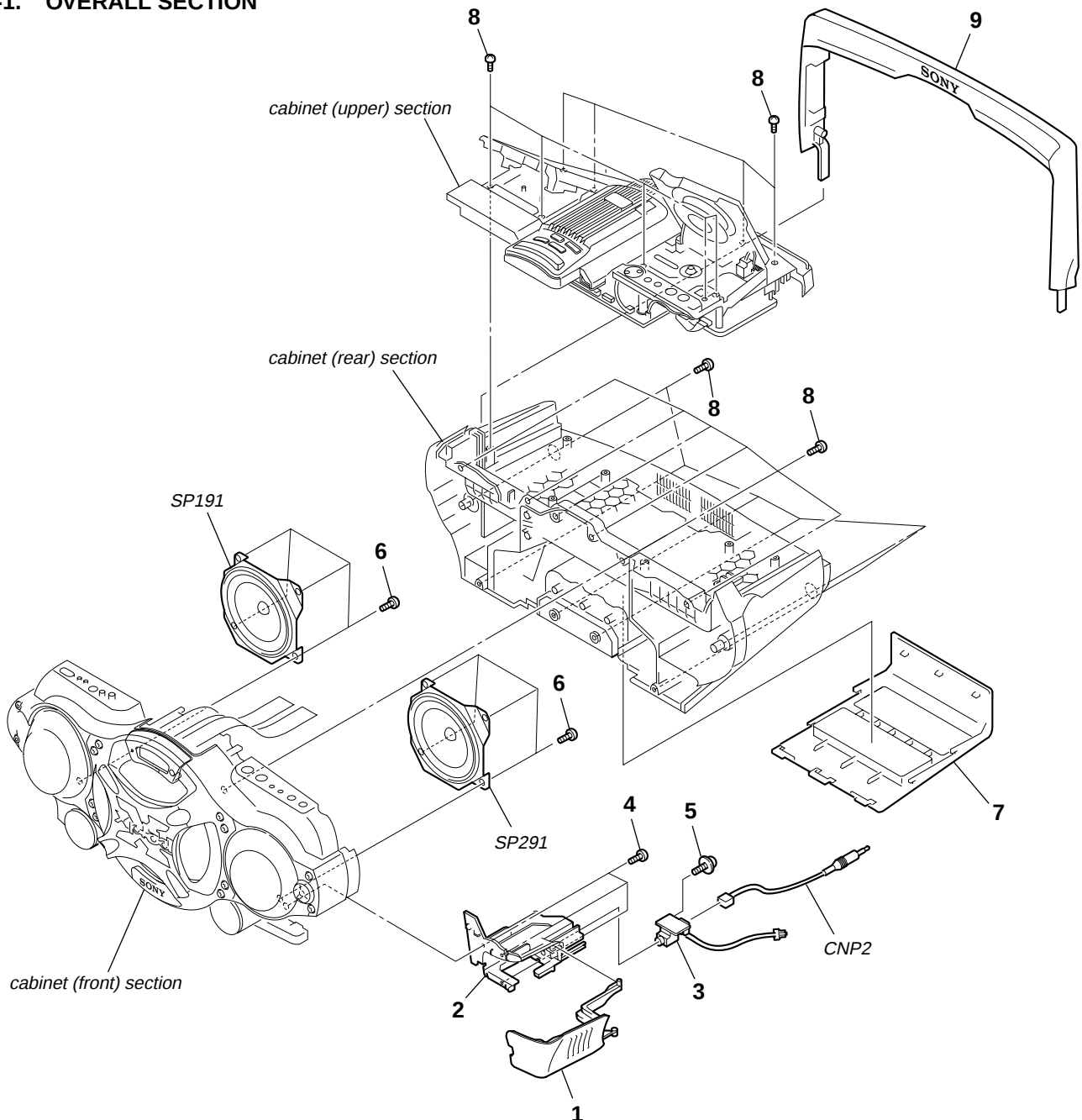
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NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation
 AUS : Australian model
 CND : Canadian model
 E41 : AC 230V area in E model
 E92 : AC 120V area in E model
 MX : Mexican model
 SP : Singapore model

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

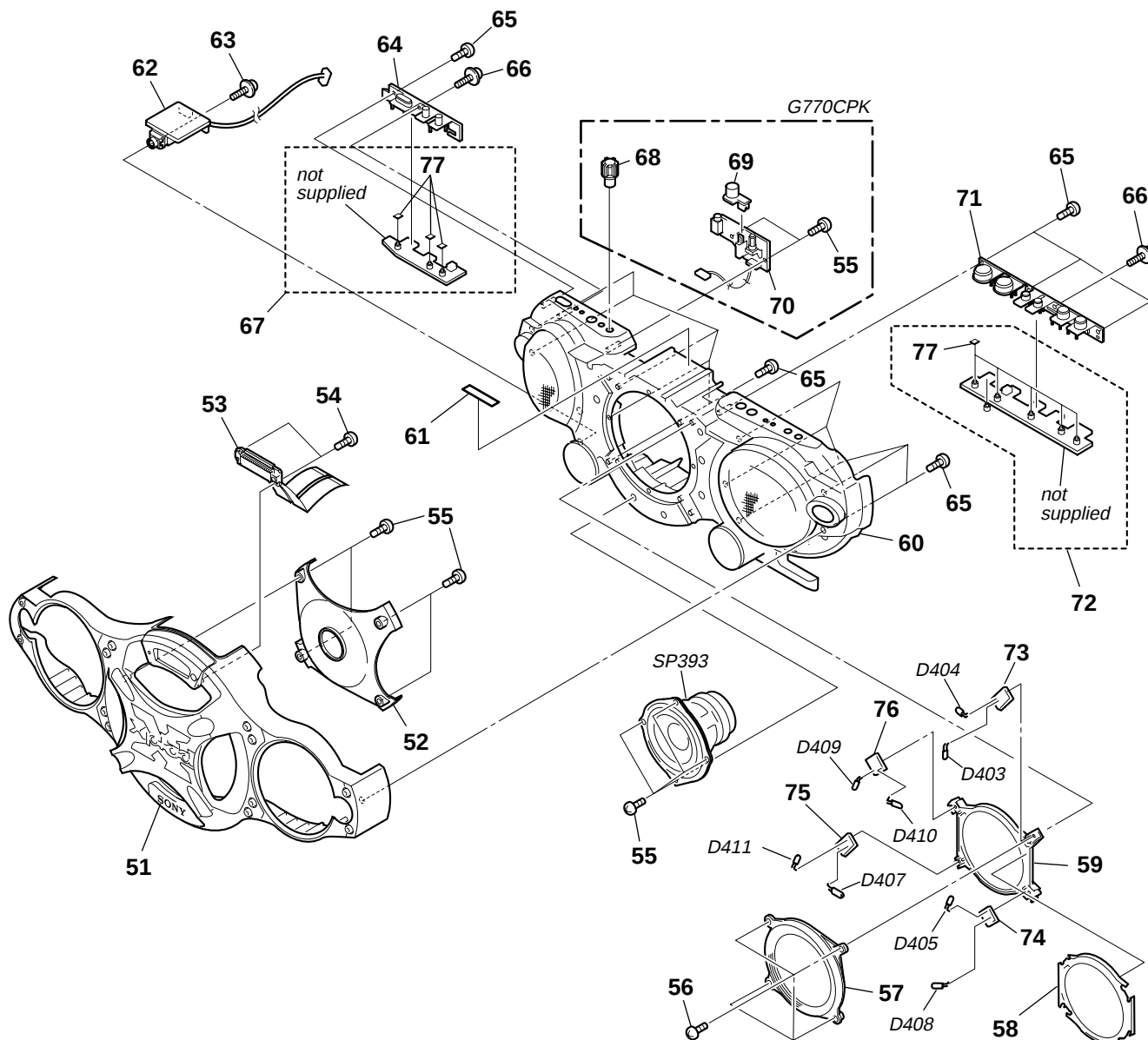
Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

8-1. OVERALL SECTION

Ref. No.	Part No.	Description	Remark
1	2-895-570-01	LID, CORD CASE	
2	2-895-569-01	CASE, CORD	
3	A-1244-296-A	AUDIO IN BOARD, COMPLETE	
4	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
5	3-252-828-01	SCREW (B2.6), (+) PWH TAPPING	
6	3-254-143-11	SCREW (B3), (+) BV TAPPING	

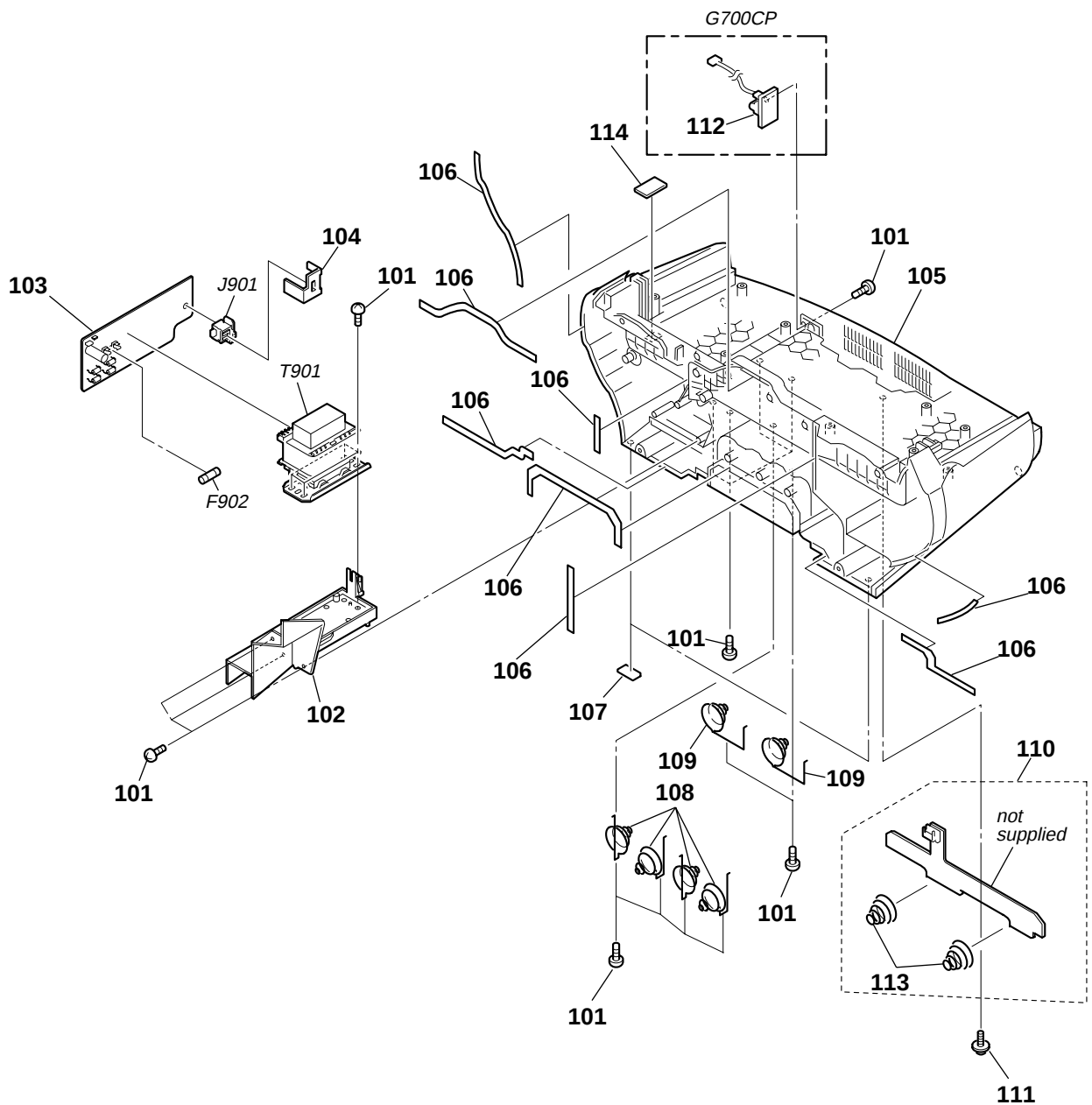
Ref. No.	Part No.	Description	Remark
7	2-895-573-01	LID, BATTERY	
8	3-254-145-11	SCREW (B3), (+) BV TAPPING	
9	2-895-574-01	HANDLE	
CNP2	1-833-922-11	CORD, CONNECTION (WITH PLUG)	
SP191	1-826-684-11	SPEAKER (10cm)	
SP291	1-826-684-11	SPEAKER (10cm)	

8-2. CABINET (FRONT) SECTION



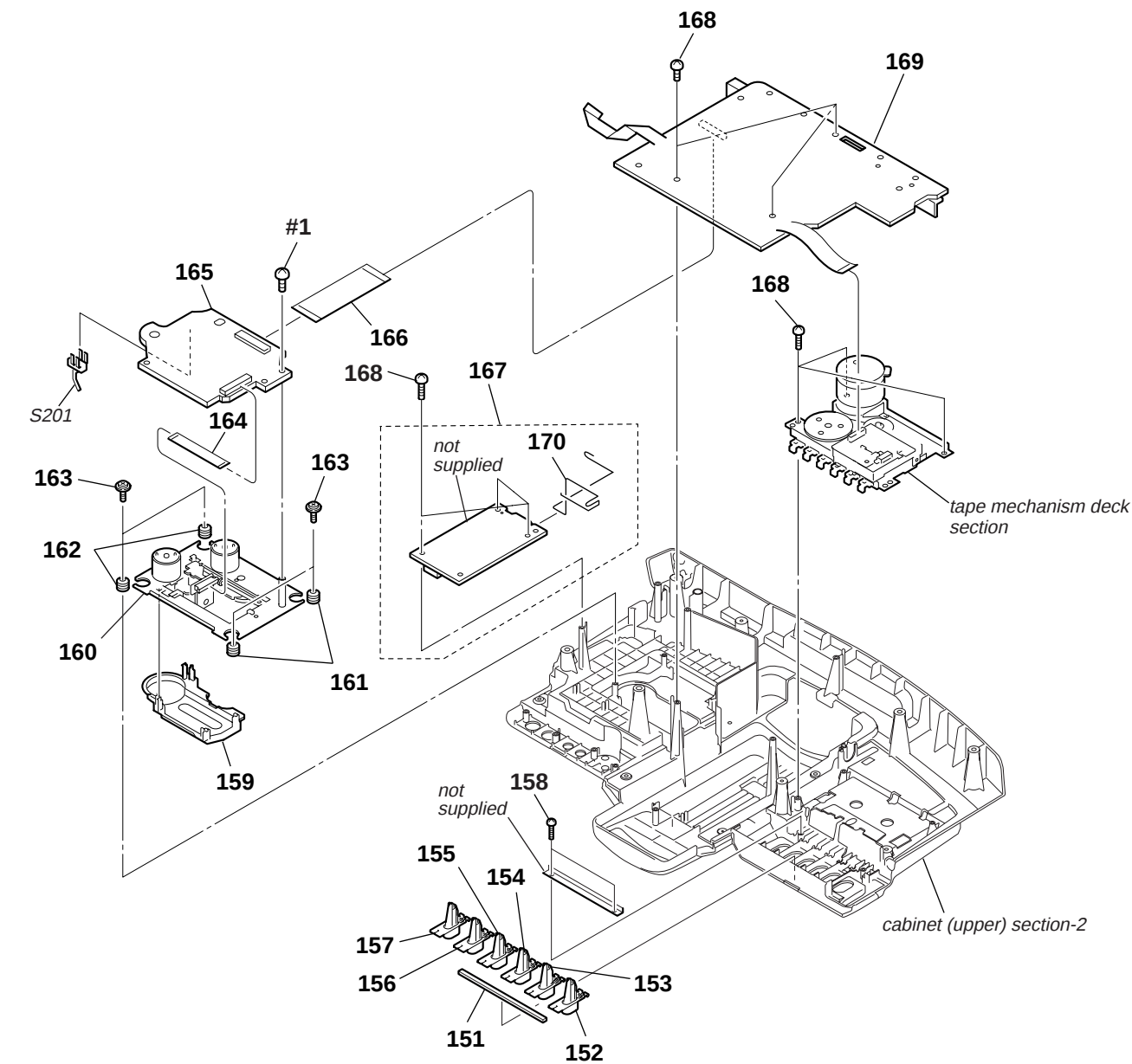
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-2177-000-1	PANEL, (FRONT) SUB ASSY		69	2-895-594-01	CAP, SWITCH (G770CPK)	
52	2-895-583-01	COVER, PANEL		70	A-1244-295-A	MICROPHONE BOARD, COMPLETE (G770CPK)	
53	A-1244-292-A	LCD BOARD, COMPLETE		71	2-895-585-01	BUTTON, TUNE	
54	3-254-151-01	SCREW (B2.6), (+) P TAPPING		72	A-1244-293-A	VOLUME KEY BOARD, COMPLETE	
55	3-254-143-11	SCREW (B3), (+) BV TAPPING		73	A-1243-618-A	LED1 BOARD, COMPLETE	
56	3-254-140-01	SCREW (B2.6), (+) BV TAPPING		74	A-1243-619-A	LED2 BOARD, COMPLETE	
57	2-895-575-01	RING, ORNAMENTAL		75	A-1243-620-A	LED3 BOARD, COMPLETE	
58	2-895-579-01	HOLDER, RING		76	A-1243-621-A	LED4 BOARD, COMPLETE	
59	2-895-576-01	RING, LIGHT GUIDE		77	3-831-441-11	CUSHION (B)	
60	X-2177-001-1	CABINET, (FRONT) SUB ASSY (G770CPK)		D403	6-501-452-01	DIODE 1L4345V22DOTDT02 (ILLUMINATION)	
60	X-2177-002-1	CABINET, (FRONT) SUB ASSY (G700CP)		D404	6-501-452-01	DIODE 1L4345V22DOTDT02 (ILLUMINATION)	
60	X-2177-003-1	CABINET, (FRONT) SUB ASSY (G770CP)		D405	6-501-452-01	DIODE 1L4345V22DOTDT02 (ILLUMINATION)	
61	3-198-121-01	SHEET (WIRE), ADHESIVE		D407	6-501-452-01	DIODE 1L4345V22DOTDT02 (ILLUMINATION)	
62	A-1244-297-A	HEADPHONE BOARD, COMPLETE		D408	6-501-452-01	DIODE 1L4345V22DOTDT02 (ILLUMINATION)	
63	3-252-830-01	SCREW (B3), (+) PWH TAPPING		D409	6-501-452-01	DIODE 1L4345V22DOTDT02 (ILLUMINATION)	
64	2-895-584-01	BUTTON, POWER		D410	6-501-452-01	DIODE 1L4345V22DOTDT02 (ILLUMINATION)	
65	3-252-827-01	SCREW (B2.6), (+) BV TAPPINGNG		D411	6-501-452-01	DIODE 1L4345V22DOTDT02 (ILLUMINATION)	
66	3-252-828-01	SCREW (B2.6), (+) PWH TAPPING		SP393	1-826-683-11	SPEAKER (13cm)	
67	A-1244-294-A	POWER KEY BOARD, COMPLETE					
68	2-657-081-02	KNOB, MICVOLUM (G770CPK)					

8-3. CABINET (REAR) SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-254-143-11	SCREW (B3), (+) BV TAPPING		108	2-067-415-01	TERMINAL (+, -), BATTERY	
102	2-895-581-01	HOLDER, TRANSFORMER (G770CP/G770CPK)		109	2-895-597-01	TERMINAL (-), BATTERY	
102	2-895-581-11	HOLDER, TRANSFORMER (G700CP)		110	A-1244-301-A	BATTERY BOARD, COMPLETE	
103	A-1243-633-A	POWER BOARD, COMPLETE	(US, CND, MX, E92)	111	3-252-830-01	SCREW (B3), (+) PWH TAPPING	
103	A-1244-369-A	POWER BOARD, COMPLETE (SP, E41, AUS)		112	A-1244-302-A	D-LIGHT BOARD, COMPLETE (G700CP)	
104	2-895-596-01	BRACKET (TRANSFORMER)		113	3-238-135-01	TERMINAL (-), BATTERY	
105	2-895-565-01	CABINET (REAR) (MX)		114	3-096-719-01	SHEET (REAR)	
105	2-895-565-11	CABINET (REAR) (G700CP)		△F902	1-532-504-33	FUSE (T4AL/250V)	
105	2-895-565-21	CABINET (REAR) (CND, E92)		△J901	1-526-838-11	INLET, AC 2P (~ AC IN) (SP, E41, AUS)	
105	2-895-565-31	CABINET (REAR) (SP, E41, AUS)		△J901	1-540-009-11	INLET, AC (~ AC IN) (US, CND, MX, E92)	
106	3-198-219-01	CUSHION, CAP		△T901	1-435-964-12	TRANSFORMER, POWER (US, CND, MX, E92)	
107	4-233-372-02	FOOT (FELT)		△T901	1-435-965-12	TRANSFORMER, POWER (SP, E41, AUS)	

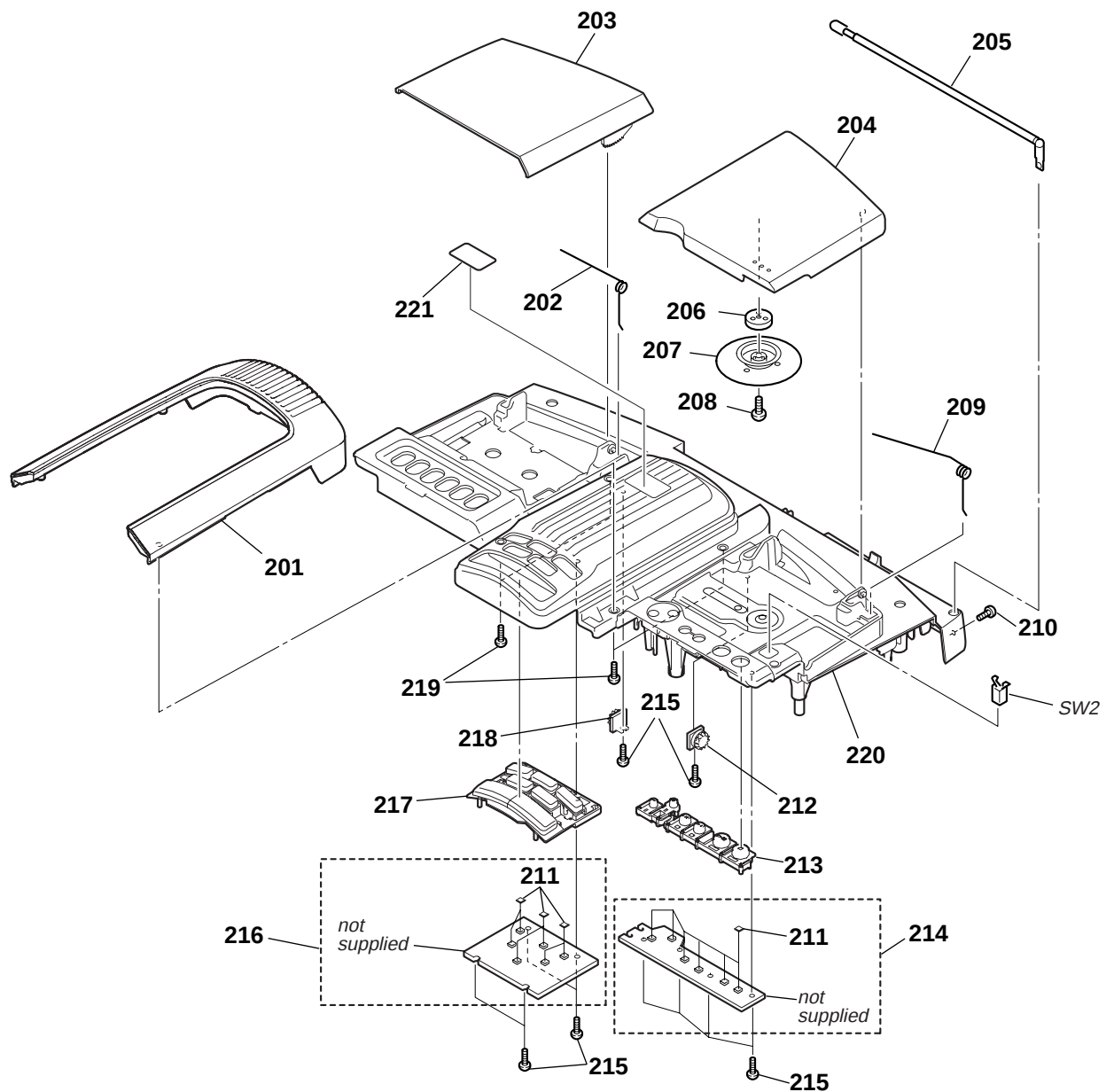
8-4. CABINET (UPPER) SECTION-1



Ref. No.	Part No.	Description	Remark
151	2-108-743-01	CUSHION KEY CASSETTE	
152	2-895-588-01	BUTTON, REC	
153	2-895-589-01	BUTTON, PLAY	
154	2-895-590-01	BUTTON, REW	
155	2-895-591-01	BUTTON, FF	
156	2-895-592-01	BUTTON, STOP	
157	2-895-593-01	BUTTON, PAUSE	
158	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
159	3-923-736-01	COVER, CD	
△ 160	8-820-126-02	OPTICAL PICK-UP (KSM-213CDP/C2NP)	
161	3-931-379-21	RUBBER, VIBRATION PROOF	
162	3-931-379-31	RUBBER, VIBRATION PROOF	
163	3-252-828-01	SCREW (B2.6), (+) PWH TAPPING	
164	1-832-404-21	CABLE, FLEXIBLE FLAT (16 CORE)	
165	A-1244-423-A	BD90 BOARD, COMPLETE	

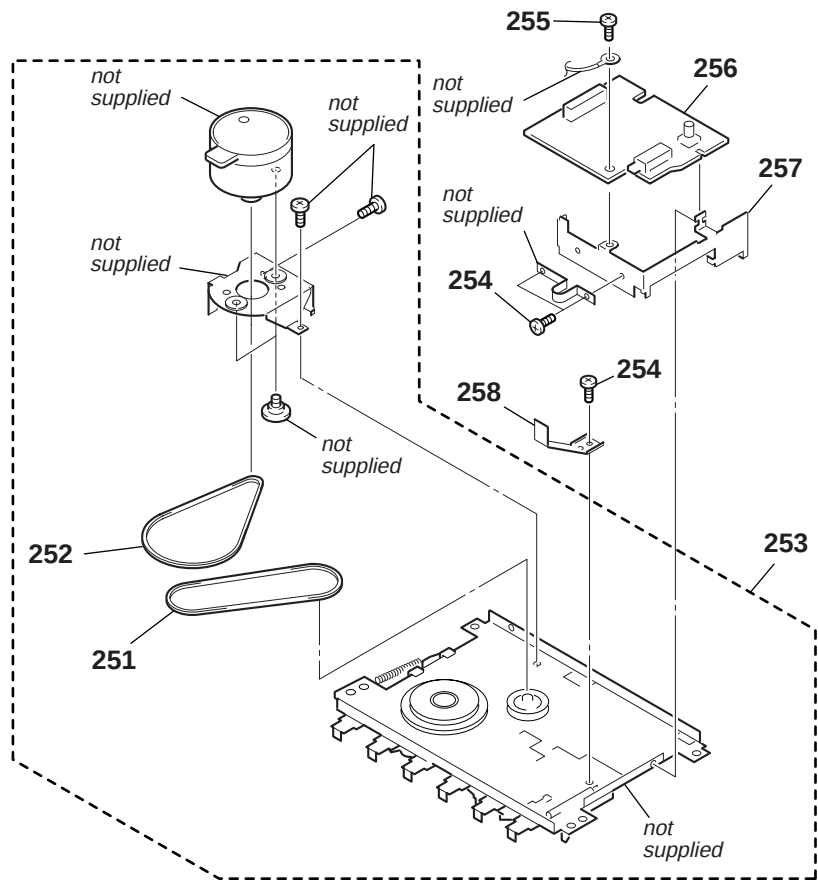
Ref. No.	Part No.	Description	Remark
166	1-832-613-21	CABLE, FLEXIBLE FLAT (21 CORE)	
167	A-1244-418-A	TUNER BOARD, COMPLETE	(US, CND, MX, E92)
167	A-1244-419-A	TUNER BOARD, COMPLETE (SP, E41, AUS)	
168	3-254-143-11	SCREW (B3), (+) BV TAPPING	
169	A-1244-300-A	MAIN BOARD, COMPLETE (MX, E92)	
169	A-1244-370-A	MAIN BOARD, COMPLETE (G700CP)	
169	A-1244-371-A	MAIN BOARD, COMPLETE (CND)	
169	A-1244-372-A	MAIN BOARD, COMPLETE (SP)	
169	A-1244-373-A	MAIN BOARD, COMPLETE (E41)	
169	A-1244-374-A	MAIN BOARD, COMPLETE (AUS)	
170	2-895-061-01	TERMINAL, ANTENNA	
S201	1-771-853-11	SWITCH, DETECTION (LIMIT)	
#1	7-685-853-04	SCREW +BVTT 2X6 (S)	

8-5. CABINET (UPPER) SECTION-2



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	2-895-568-01	PANEL (UPPER) (G770CP/G770CPK)		212	3-047-468-21	DAMPER	
201	2-895-568-11	PANEL (UPPER) (G700CP)		213	2-895-586-01	BUTTON, CD	
202	2-895-060-01	SPRING, CASSETTE		214	A-1244-299-A	CD KEY BOARD, COMPLETE	
203	2-895-572-01	LID, CASSETTE (G770CPK)		215	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
203	2-895-572-11	LID, CASSETTE (G700CP)		216	A-1244-298-A	WOOFER KEY BOARD, COMPLETE	
203	2-895-572-21	LID, CASSETTE (G770CP)		217	2-895-587-01	BUTTON, SOUND	
204	2-895-571-01	LID, CD		218	3-047-468-01	DAMPER	
205	1-754-376-11	ANTENNA, TELESCOPIC		219	3-254-143-11	SCREW (B3), (+) BV TAPPING	
206	1-452-899-11	MAGNET		220	2-895-566-01	CABINET (UPPER) (G770CP/G770CPK)	
207	3-019-395-01	PLATE, CHUCKING		220	2-895-566-11	CABINET (UPPER) (G700CP)	
208	3-253-143-01	SCREW (B2.6), (+) P TAPPING		221	2-895-760-01	SHEET (X PLOD)	
209	2-895-059-01	SPRING, CD		SW2	1-692-960-11	SWITCH, PUSH (1 KEY)	(▲ PUSH OPEN/CLOSE)
210	3-252-833-01	SCREW (M3), (+) P					
211	3-831-441-11	CUSHION (B)					

8-6. TAPE MECHANISM DECK SECTION



Ref. No.	Part No.	Description	Remark
251	2-670-389-01	BELT (1)	
252	2-670-390-01	BELT (2)	
253	1-797-375-11	DECK, MECHANICAL (H21SB-C05)	
254	3-254-029-01	SCREW	
255	3-254-022-01	SCREW	

Ref. No.	Part No.	Description	Remark
256	A-1246-280-A	TC BOARD, COMPLETE	
257	2-659-455-01	HOLDER (REC)	
258	3-252-612-01	LEVER, REC	

SECTION 9 ELECTRICAL PARTS LIST

AUDIO IN

BATTERY

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BD90

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.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Accessories are given in the last of this parts list.
- CAPACITORS
uF: μ F
- COILS
uH: μ H

- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . : μ A. . uPA. . : μ PA. .
uPB. . : μ PB. . uPC. . : μ PC. .
uPD. . : μ PD. .
- Abbreviation
AUS : Australian model
CND : Canadian model
E41 : AC 230V area in E model
E92 : AC 120V area in E model
MX : Mexican model
SP : Singapore model

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

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

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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-1244-296-A	AUDIO IN BOARD, COMPLETE *****		C105	1-164-360-11	CERAMIC CHIP 0.1uF	16V
		< CONNECTOR >		C106	1-128-995-21	ELECT CHIP 100uF	20% 10V
				C107	1-164-360-11	CERAMIC CHIP 0.1uF	16V
				C108	1-164-360-11	CERAMIC CHIP 0.1uF	16V
				C109	1-164-360-11	CERAMIC CHIP 0.1uF	16V
CNP357	1-815-551-11	PIN, CONNECTOR (PWB) 3P		C110	1-164-360-11	CERAMIC CHIP 0.1uF	16V
		< JACK >		C112	1-164-360-11	CERAMIC CHIP 0.1uF	16V
				C113	1-164-360-11	CERAMIC CHIP 0.1uF	16V
J402	1-815-629-11	JACK (AUDIO IN)		C115	1-124-778-00	ELECT CHIP 22uF	20% 6.3V
		< JUMPER RESISTOR >		C116	1-164-360-11	CERAMIC CHIP 0.1uF	16V
JR205	1-216-864-11	SHORT CHIP 0		C117	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
JR206	1-216-864-11	SHORT CHIP 0		C118	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
		< COIL >		C119	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
				C120	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
L101	1-410-517-11	INDUCTOR 47uH		C122	1-164-315-11	CERAMIC CHIP 470PF	5% 50V
L102	1-410-517-11	INDUCTOR 47uH		C123	1-164-315-11	CERAMIC CHIP 470PF	5% 50V
L202	1-410-517-11	INDUCTOR 47uH		C124	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V
		< RESISTOR >		C125	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V
				C126	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
R121	1-216-837-11	METAL CHIP 22K 5% 1/10W		C127	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
R122	1-216-837-11	METAL CHIP 22K 5% 1/10W		C128	1-162-910-11	CERAMIC CHIP 5PF	0.25PF 50V
R221	1-216-837-11	METAL CHIP 22K 5% 1/10W		C130	1-162-910-11	CERAMIC CHIP 5PF	0.25PF 50V
R222	1-216-837-11	METAL CHIP 22K 5% 1/10W		C132	1-164-360-11	CERAMIC CHIP 0.1uF	16V
*****				C133	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
	A-1244-301-A	BATTERY BOARD, COMPLETE *****		C136	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
				C137	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
				C138	1-164-315-11	CERAMIC CHIP 470PF	5% 50V
				C139	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
				C140	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
				C141	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V
				C142	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
				C143	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
				C144	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
				C145	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
				C146	1-164-315-11	CERAMIC CHIP 470PF	5% 50V
				C147	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
				C148	1-162-923-11	CERAMIC CHIP 47PF	5% 50V
				C149	1-162-919-11	CERAMIC CHIP 22PF	5% 50V
				C150	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
				C151	1-164-315-11	CERAMIC CHIP 470PF	5% 50V
				C152	1-164-315-11	CERAMIC CHIP 470PF	5% 50V
				C153	1-164-360-11	CERAMIC CHIP 0.1uF	16V
				C201	1-128-995-21	ELECT CHIP 100uF	20% 10V
C100	1-164-360-11	CERAMIC CHIP 0.1uF	16V				
C101	1-164-360-11	CERAMIC CHIP 0.1uF	16V				
C102	1-164-360-11	CERAMIC CHIP 0.1uF	16V				
C103	1-164-360-11	CERAMIC CHIP 0.1uF	16V				
C104	1-164-360-11	CERAMIC CHIP 0.1uF	16V				

CFD-G700CP/G770CP/G770CPK

BD90 CD KEY

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Ref. No.	Part No.	Description	Remark		
C202	1-128-995-21	ELECT CHIP	100uF	20%	10V
C204	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C205	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C206	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C207	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C301	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C302	1-137-710-91	CERAMIC CHIP	10uF	20%	6.3V
C303	1-137-710-91	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 >					
CN201	1-784-833-51	CONNECTOR, FFC (LIF (NON-ZIF)) 21P			
CN301	1-770-425-51	CONNECTOR, FFC/FPC 16P			
< IC >					
IC101	(Not supplied)	IC TC94A70FG-006			
IC201	6-710-808-01	IC TK63115SCL-G@GT			
IC401	6-710-637-01	IC BA5826SFP-E2			
< TRANSISTOR >					
Q301	6-551-120-01	TRANSISTOR	2SA2119K		
< RESISTOR >					
R101	1-216-813-11	METAL CHIP	220	5%	1/10W
R102	1-216-833-11	METAL CHIP	10K	5%	1/10W
R104	1-216-295-91	SHORT CHIP	0		
R105	1-216-857-11	METAL CHIP	1M	5%	1/10W
R106	1-216-821-11	METAL CHIP	1K	5%	1/10W
R108	1-216-864-11	SHORT CHIP	0		
R110	1-216-833-11	METAL CHIP	10K	5%	1/10W
R111	1-216-809-11	METAL CHIP	100	5%	1/10W
R112	1-216-809-11	METAL CHIP	100	5%	1/10W
R113	1-216-833-11	METAL CHIP	10K	5%	1/10W
R114	1-216-833-11	METAL CHIP	10K	5%	1/10W
R118	1-216-845-11	METAL CHIP	100K	5%	1/10W
R120	1-216-864-11	SHORT CHIP	0		
R125	1-216-864-11	SHORT CHIP	0		
R126	1-216-864-11	SHORT CHIP	0		
R127	1-216-864-11	SHORT CHIP	0		
R128	1-216-853-11	METAL CHIP	470K	5%	1/10W
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
R135	1-216-853-11	METAL CHIP	470K	5%	1/10W
R136	1-216-837-11	METAL CHIP	22K	5%	1/10W
R139	1-216-841-11	METAL CHIP	47K	5%	1/10W
R140	1-216-864-11	SHORT CHIP	0		
R142	1-216-837-11	METAL CHIP	22K	5%	1/10W
R143	1-216-841-11	METAL CHIP	47K	5%	1/10W
R144	1-216-837-11	METAL CHIP	22K	5%	1/10W
R145	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description	Remark		
R146	1-216-864-11	SHORT CHIP	0		
R147	1-216-864-11	SHORT CHIP	0		
R148	1-216-864-11	SHORT CHIP	0		
R149	1-216-864-11	SHORT CHIP	0		
R150	1-216-864-11	SHORT CHIP	0		
R151	1-216-864-11	SHORT CHIP	0		
R153	1-216-857-11	METAL CHIP	1M	5%	1/10W
R154	1-216-857-11	METAL CHIP	1M	5%	1/10W
R155	1-216-805-11	METAL CHIP	47	5%	1/10W
R156	1-216-809-11	METAL CHIP	100	5%	1/10W
R157	1-216-809-11	METAL CHIP	100	5%	1/10W
R201	1-216-295-91	SHORT CHIP	0		
R202	1-216-295-91	SHORT CHIP	0		
R203	1-216-809-11	METAL CHIP	100	5%	1/10W
R204	1-216-809-11	METAL CHIP	100	5%	1/10W
R205	1-216-809-11	METAL CHIP	100	5%	1/10W
R206	1-216-809-11	METAL CHIP	100	5%	1/10W
R207	1-216-809-11	METAL CHIP	100	5%	1/10W
R208	1-216-809-11	METAL CHIP	100	5%	1/10W
R209	1-216-809-11	METAL CHIP	100	5%	1/10W
R210	1-216-809-11	METAL CHIP	100	5%	1/10W
R211	1-216-809-11	METAL CHIP	100	5%	1/10W
R212	1-216-809-11	METAL CHIP	100	5%	1/10W
R218	1-216-845-11	METAL CHIP	100K	5%	1/10W
R219	1-216-845-11	METAL CHIP	100K	5%	1/10W
R220	1-216-845-11	METAL CHIP	100K	5%	1/10W
R221	1-216-845-11	METAL CHIP	100K	5%	1/10W
R222	1-216-845-11	METAL CHIP	100K	5%	1/10W
R223	1-216-845-11	METAL CHIP	100K	5%	1/10W
R301	1-216-845-11	METAL CHIP	100K	5%	1/10W
R302	1-216-864-11	SHORT CHIP	0		
R303	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R304	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R402	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R405	1-216-833-11	METAL CHIP	10K	5%	1/10W
R408	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R414	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R415	1-216-841-11	METAL CHIP	47K	5%	1/10W
< VIBRATOR >					
X102	1-795-101-21	VIBRATOR, CERAMIC (16.934MHz)			

A-1244-299-A		CD KEY BOARD, COMPLETE			

3-831-441-11		CUSHION (B)			
< RESISTOR >					
R404	1-216-821-11	METAL CHIP	1K	5%	1/10W
R405	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R406	1-216-821-11	METAL CHIP	1K	5%	1/10W
R407	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R410	1-216-813-11	METAL CHIP	220	5%	1/10W
R421	1-216-817-11	METAL CHIP	470	5%	1/10W
R422	1-216-821-11	METAL CHIP	1K	5%	1/10W
R466	1-216-809-11	METAL CHIP	100	5%	1/10W

							CD KEY		D-LIGHT		HEADPHONE		LCD			
							LED1		LED2		LED3		LED4		MAIN	
Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark			
< SWITCH >							< LIQUID CRYSTAL DISPLAY >									
S401	1-786-050-21	SWITCH, KEY BOARD (TUNE -/⏮ -)					LCD401	1-802-396-11	DISPLAY PANEL, LIQUID CRYSTAL							
S402	1-786-050-21	SWITCH, KEY BOARD (TUNE +/-⏮ +)					< RESISTOR >									
S405	1-786-050-21	SWITCH, KEY BOARD (▶▶II)					R428	1-216-813-11	METAL CHIP	220	5%	1/10W				
S406	1-786-050-21	SWITCH, KEY BOARD (■)					R469	1-216-845-11	METAL CHIP	100K	5%	1/10W				
S413	1-786-050-21	SWITCH, KEY BOARD (PRESET - I◀◀)					R475	1-216-849-11	METAL CHIP	220K	5%	1/10W				

S414	1-786-050-21	SWITCH, KEY BOARD (PRESET + ▶▶I)					A-1243-618-A LED1 BOARD, COMPLETE									
A-1244-302-A D-LIGHT BOARD, COMPLETE (G700CP)							*****									
< JACK >							< RESISTOR >									
J103	1-820-048-11	CONNECTOR (LIGHTING) (D-LIGHT SYNC OUT)					R471	1-216-813-11	METAL CHIP	220	5%	1/10W				
< RESISTOR >							R472	1-216-813-11	METAL CHIP	220	5%	1/10W				

L302	1-216-864-11	SHORT CHIP	0				A-1243-619-A LED2 BOARD, COMPLETE									
L306	1-216-864-11	SHORT CHIP	0				*****									
L307	1-216-864-11	SHORT CHIP	0				< RESISTOR >									

A-1244-297-A HEADPHONE BOARD, COMPLETE							*****									
< CONNECTOR >							A-1243-620-A LED3 BOARD, COMPLETE									
CNP392	1-815-552-11	PIN, CONNECTOR (PWB) 4P					*****									
< JACK >							< RESISTOR >									
J391	1-794-016-11	JACK (㊤)					R476	1-216-813-11	METAL CHIP	220	5%	1/10W				
< COIL >							R487	1-216-813-11	METAL CHIP	220	5%	1/10W				

L301	1-410-509-11	INDUCTOR	10uH				A-1243-621-A LED4 BOARD, COMPLETE									
< RESISTOR >							*****									
R192	1-216-821-11	METAL CHIP	1K	5%	1/10W		< RESISTOR >									
R193	1-216-813-11	METAL CHIP	220	5%	1/10W		R478	1-216-813-11	METAL CHIP	220	5%	1/10W				
R194	1-216-813-11	METAL CHIP	220	5%	1/10W		R479	1-216-813-11	METAL CHIP	220	5%	1/10W				
R292	1-216-821-11	METAL CHIP	1K	5%	1/10W		*****									
R293	1-216-813-11	METAL CHIP	220	5%	1/10W		A-1244-300-A MAIN BOARD, COMPLETE (MX, E92)									
R294	1-216-813-11	METAL CHIP	220	5%	1/10W		A-1244-370-A MAIN BOARD, COMPLETE (G700CP)									

A-1244-292-A LCD BOARD, COMPLETE							A-1244-371-A MAIN BOARD, COMPLETE (CND)									
*****							A-1244-372-A MAIN BOARD, COMPLETE (SP)									
1-831-799-21 CABLE, FLEXIBLE FLAT (19 CORE)							A-1244-373-A MAIN BOARD, COMPLETE (E41)									
2-895-582-01 HOLDER, LCD							A-1244-374-A MAIN BOARD, COMPLETE (AUS)									
3-198-120-01 SHEET (IR), ADHESIVE							*****									
< CAPACITOR >							1-832-425-21 CABLE, FLEXIBLE FLAT (11 CORE)									
< DIODE >							1-833-945-21 CABLE, FLEXIBLE FLAT (11 CORE)									
C401	1-115-156-11	CERAMIC CHIP	1uF	10V			3-252-827-01 SCREW (B2.6), (+) BV TAPPING									
< IC >							< CAPACITOR >									
D406	8-719-059-97	DIODE L-34HD (OPR/BATT)					C106	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V				
< IC >							C107	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V				
IC891	6-701-681-01	IC	RPM7140-V4				C108	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V				
							C109	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V				
							C110	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V				
							C111	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V				
							C121	1-126-960-11	ELECT	1uF	20%	50V				

CFD-G700CP/G770CP/G770CPK

MAIN

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Ref. No.	Part No.	Description			Remark
C123	1-126-961-11	ELECT	2.2uF	20%	50V
C124	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C125	1-126-963-11	ELECT	4.7uF	20%	50V
C126	1-126-961-11	ELECT	2.2uF	20%	50V
C127	1-126-960-11	ELECT	1uF	20%	50V
C131	1-126-959-11	ELECT	0.47uF	20%	50V
C132	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C151	1-126-964-11	ELECT	10uF	20%	50V (G770CPK)
C152	1-126-960-11	ELECT	1uF	20%	50V (G770CPK)
C153	1-126-960-11	ELECT	1uF	20%	50V (MX, E92, AUS)
C153	1-126-964-11	ELECT	10uF	20%	50V (CND)
C154	1-162-960-11	CERAMIC CHIP	220PF	10%	50V (G770CPK)
C161	1-126-960-11	ELECT	1uF	20%	50V
C171	1-126-947-11	ELECT	47uF	20%	35V
C172	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C173	1-104-658-91	ELECT	100uF	20%	10V
C174	1-126-926-11	ELECT	1000uF	20%	10V
C175	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C206	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C207	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C208	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C209	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C210	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C211	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C221	1-126-960-11	ELECT	1uF	20%	50V
C223	1-126-961-11	ELECT	2.2uF	20%	50V
C224	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C225	1-126-963-11	ELECT	4.7uF	20%	50V
C226	1-126-961-11	ELECT	2.2uF	20%	50V
C227	1-126-960-11	ELECT	1uF	20%	50V
C231	1-126-959-11	ELECT	0.47uF	20%	50V
C232	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C251	1-126-964-11	ELECT	10uF	20%	50V (G770CPK)
C252	1-126-960-11	ELECT	1uF	20%	50V (G770CPK)
C253	1-126-960-11	ELECT	1uF	20%	50V (MX, E92, AUS)
C253	1-126-964-11	ELECT	10uF	20%	50V (CND)
C254	1-162-960-11	CERAMIC CHIP	220PF	10%	50V (G770CPK)
C261	1-126-960-11	ELECT	1uF	20%	50V
C271	1-126-947-11	ELECT	47uF	20%	35V
C272	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C273	1-104-658-91	ELECT	100uF	20%	10V
C274	1-126-926-11	ELECT	1000uF	20%	10V
C275	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C301	1-126-923-91	ELECT	220uF	20%	10V (G770CPK)
C302	1-115-156-11	CERAMIC CHIP	1uF		10V
C303	1-126-964-11	ELECT	10uF	20%	50V
C304	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C305	1-126-935-11	ELECT	470uF	20%	16V

Ref. No.	Part No.	Description			Remark
C326	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C327	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C332	1-126-960-11	ELECT	1uF	20%	50V (G700CP)
C333	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C334	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C335	1-126-960-11	ELECT	1uF	20%	50V
C336	1-126-923-91	ELECT	220uF	20%	10V
C337	1-126-960-11	ELECT	1uF	20%	50V (G700CP)
C338	1-126-964-11	ELECT	10uF	20%	50V
C339	1-104-658-91	ELECT	100uF	20%	10V
C340	1-104-658-91	ELECT	100uF	20%	10V
C341	1-104-662-91	ELECT	22uF	20%	25V
C342	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C343	1-126-964-11	ELECT	10uF	20%	50V
C344	1-126-964-11	ELECT	10uF	20%	50V (G700CP)
C345	1-126-964-11	ELECT	10uF	20%	50V
C346	1-126-942-61	ELECT	1000uF	20%	25V
C347	1-126-964-11	ELECT	10uF	20%	50V
C348	1-126-946-11	ELECT	6800uF	20%	25V
C349	1-104-666-11	ELECT	220uF	20%	25V
C350	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C351	1-104-658-91	ELECT	100uF	20%	10V
C352	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C353	1-104-658-91	ELECT	100uF	20%	10V
C354	1-104-658-91	ELECT	100uF	20%	10V
C355	1-104-658-91	ELECT	100uF	20%	10V
C356	1-104-658-91	ELECT	100uF	20%	10V
C357	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C358	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C359	1-104-662-91	ELECT	22uF	20%	25V
C360	1-126-961-11	ELECT	2.2uF	20%	50V
C361	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C362	1-126-964-11	ELECT	10uF	20%	50V
C366	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C371	1-104-658-91	ELECT	100uF	20%	10V
C380	1-126-923-91	ELECT	220uF	20%	10V
C381	1-104-658-91	ELECT	100uF	20%	10V (G700CP)
C402	1-126-960-11	ELECT	1uF	20%	50V (G770CPK)
C411	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C415	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (G770CPK)
C416	1-104-658-91	ELECT	100uF	20%	10V (G770CPK)
C417	1-126-963-11	ELECT	4.7uF	20%	50V (G770CPK)
C418	1-126-963-11	ELECT	4.7uF	20%	50V (G770CPK)
C419	1-104-658-91	ELECT	100uF	20%	10V (G770CPK)
C420	1-126-947-11	ELECT	47uF	20%	35V (G770CPK)
C421	1-126-960-11	ELECT	1uF	20%	50V (G770CPK)
C422	1-126-947-11	ELECT	47uF	20%	35V (G770CPK)

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C423	1-104-662-91	ELECT	22uF	20%	25V	C851	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C424	1-126-964-11	ELECT	10uF	20%	50V	C852	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C425	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V	C853	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C426	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V	C854	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C427	1-126-963-11	ELECT	4.7uF	20%	50V	C855	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C430	1-115-156-11	CERAMIC CHIP	1uF		10V	C856	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C431	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C857	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C432	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C951	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C433	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C953	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C436	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C954	1-126-934-11	ELECT	220uF	20%	16V
C437	1-100-591-91	CERAMIC CHIP	1uF	10%	25V	C955	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C451	1-162-913-11	CERAMIC CHIP	8PF	0.5PF	50V	C957	1-126-923-91	ELECT	220uF	20%	10V
C453	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C961	1-126-923-91	ELECT	220uF	20%	10V
C454	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C962	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C455	1-162-923-11	CERAMIC CHIP	47PF	5%	50V			< CONNECTOR >			
C456	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	* CN799	1-784-732-11	CONNECTOR, FFC 10P			
C457	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CN803	1-784-741-11	CONNECTOR, FFC 19P			
C458	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CN804	1-784-741-11	CONNECTOR, FFC 19P			
C459	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	CN805	1-779-289-11	CONNECTOR, FFC (LIF (NON-ZIF)) 21P			
C461	1-126-964-11	ELECT	10uF	20%	50V			< CONNECTOR >			
C803	1-164-156-11	CERAMIC CHIP	0.1uF		25V	CNP301	1-815-553-21	PIN, CONNECTOR (PWB) 5P			
C804	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CNP303	1-815-554-11	PIN, CONNECTOR (PWB) 6P			
C805	1-104-658-91	ELECT	100uF	20%	10V	CNP390	1-815-554-11	PIN, CONNECTOR (PWB) 6P (G770CPK)			
C806	1-115-156-11	CERAMIC CHIP	1uF		10V	CNP391	1-815-553-11	PIN, CONNECTOR (PWB) 5P			
C807	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CNP393	1-815-552-11	PIN, CONNECTOR (PWB) 4P			
C808	1-104-658-91	ELECT	100uF	20%	10V	CNP394	1-815-551-11	PIN, CONNECTOR (PWB) 3P			
C810	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	CNP397	1-815-551-11	PIN, CONNECTOR (PWB) 3P (G700CP)			
C813	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	CNP803	1-815-550-31	PIN, CONNECTOR (PWB) 2P			
C814	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	CNP805	1-815-551-11	PIN, CONNECTOR (PWB) 3P			
C815	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	CNP806	1-815-550-21	PIN, CONNECTOR (PWB) 2P			
C816	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V			< DIODE >			
C819	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D320	6-500-335-01	DIODE MC2838-T112-1			
C820	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	D321	6-501-193-01	DIODE 1SS355WTE-17			
C825	1-115-156-11	CERAMIC CHIP	1uF		10V	D322	6-501-193-01	DIODE 1SS355WTE-17			
C826	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D323	6-501-193-01	DIODE 1SS355WTE-17			
C827	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	D324	6-500-335-01	DIODE MC2838-T112-1			
C828	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	D351	6-501-579-01	DIODE MC2837			
C829	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D414	6-501-193-01	DIODE 1SS355WTE-17 (G770CPK)			
C831	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D415	6-500-334-01	DIODE MC2836-T112-1 (G770CPK)			
C833	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D461	6-500-335-01	DIODE MC2838-T112-1			
C837	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D462	8-719-069-54	DIODE UDZSTE-175.1B			
C839	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	D801	6-500-334-01	DIODE MC2836-T112-1			
C841	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D802	6-500-334-01	DIODE MC2836-T112-1			
C842	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D804	6-501-193-01	DIODE 1SS355WTE-17 (G770CPK)			
C843	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D805	6-501-193-01	DIODE 1SS355WTE-17			
C846	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D951	6-501-193-01	DIODE 1SS355WTE-17			
C847	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D952	6-500-334-01	DIODE MC2836-T112-1			
C848	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D953	6-501-193-01	DIODE 1SS355WTE-17			
C849	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D954	8-719-977-28	DIODE DTZ10B			
C850	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D955	8-719-978-33	DIODE DTZ-TT11-6.8B			

Ref. No.	Part No.	Description	Remark
< FERRITE BEAD >			
FB831	1-216-864-11	SHORT CHIP 0	
FB832	1-216-864-11	SHORT CHIP 0	
FB833	1-216-864-11	SHORT CHIP 0	
FB834	1-216-864-11	SHORT CHIP 0	
FB835	1-414-760-21	FERRITE, EMI (SMD) (1608)	
FB836	1-414-760-21	FERRITE, EMI (SMD) (1608)	
FB837	1-216-864-11	SHORT CHIP 0	
< IC >			
IC321	6-710-289-01	IC R2S15904SP	
IC351	8-759-426-51	IC BA5417	
IC371	8-759-426-51	IC BA5417	
IC401	8-759-332-64	IC BA3837 (G770CPK)	
IC801	6-807-359-01	IC MB90802NPF-G-127E1	
IC802	6-710-820-01	IC S-24CS02AFJ-TB-G	
IC805	6-704-118-01	IC S-80828CNMC-B8NT2G	
IC806	6-706-338-01	IC XC6202P332FR	
IC901	6-710-863-01	IC TK70540SCL-G (G700CP)	
IC902	6-702-771-01	IC TA78033LS	
< JUMPER RESISTOR >			
JR105	1-216-864-11	SHORT CHIP 0	
JR106	1-216-864-11	SHORT CHIP 0	
JR107	1-216-864-11	SHORT CHIP 0	
JR108	1-216-864-11	SHORT CHIP 0	
JR109	1-216-864-11	SHORT CHIP 0	
JR110	1-216-864-11	SHORT CHIP 0	
JR111	1-216-864-11	SHORT CHIP 0	
JR113	1-216-864-11	SHORT CHIP 0	
JR114	1-216-864-11	SHORT CHIP 0	
JR117	1-216-864-11	SHORT CHIP 0	
JR118	1-216-864-11	SHORT CHIP 0	
JR120	1-216-864-11	SHORT CHIP 0	
JR121	1-216-864-11	SHORT CHIP 0	
JR122	1-216-864-11	SHORT CHIP 0	
JR124	1-216-864-11	SHORT CHIP 0	
JR126	1-216-864-11	SHORT CHIP 0	
JR127	1-216-864-11	SHORT CHIP 0	
JR128	1-216-864-11	SHORT CHIP 0	
JR129	1-216-864-11	SHORT CHIP 0	
JR131	1-216-864-11	SHORT CHIP 0	
JR133	1-216-864-11	SHORT CHIP 0	
JR134	1-216-864-11	SHORT CHIP 0	
JR135	1-216-864-11	SHORT CHIP 0	
JR136	1-216-864-11	SHORT CHIP 0	
JR137	1-216-864-11	SHORT CHIP 0	
JR138	1-216-864-11	SHORT CHIP 0	
JR140	1-216-864-11	SHORT CHIP 0	
JR150	1-216-864-11	SHORT CHIP 0	
JR151	1-216-864-11	SHORT CHIP 0	
JR152	1-216-864-11	SHORT CHIP 0	
JR153	1-216-864-11	SHORT CHIP 0	
JR155	1-216-864-11	SHORT CHIP 0	
< COIL >			
L158	1-410-501-11	INDUCTOR 2.2uH	

Ref. No.	Part No.	Description	Remark
L159	1-410-501-11	INDUCTOR 2.2uH	
L160	1-410-501-11	INDUCTOR 2.2uH	
L803	1-414-743-21	INDUCTOR 47uH	
< TRANSISTOR >			
Q171	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q271	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q320	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	(G700CP)
Q321	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q322	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q323	8-729-045-62	TRANSISTOR 2SK2158-T2B	
Q351	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q352	6-551-443-01	TRANSISTOR RT1P436C-TP-1	
Q354	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q401	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	(G770CPK)
Q402	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	(G770CPK)
Q403	8-729-027-46	TRANSISTOR DTC114YKA-T146	(G770CPK)
Q405	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	(G770CPK)
Q406	8-729-027-46	TRANSISTOR DTC114YKA-T146	(G770CPK)
Q407	8-729-027-46	TRANSISTOR DTC114YKA-T146	(G770CPK)
Q451	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q452	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q801	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q803	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q804	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q805	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
Q806	6-551-444-01	TRANSISTOR RT1N436C-TP-1	(SP, E41, AUS)
Q812	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q815	8-729-027-26	TRANSISTOR DTA114YKA-T146	
Q816	8-729-037-13	TRANSISTOR KTA1271Y	
Q950	8-729-037-13	TRANSISTOR KTA1271Y	
Q951	8-729-027-50	TRANSISTOR DTC123JKA-T146	
Q952	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
Q953	6-551-276-01	TRANSISTOR RT1N431C-TP-1	
Q954	8-729-036-86	TRANSISTOR KTC3203Y-AT	
Q959	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q971	8-729-037-08	TRANSISTOR KTD2058Y	
Q972	8-729-037-08	TRANSISTOR KTD2058Y	
< RESISTOR >			
R101	1-216-864-11	SHORT CHIP 0 (G700CP/G770CP)	
R102	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R103	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R104	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R120	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R123	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R124	1-216-864-11	SHORT CHIP 0	
R125	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R126	1-216-841-11	METAL CHIP 47K 5% 1/10W	(G700CP)
R127	1-216-833-11	METAL CHIP 10K 5% 1/10W	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R129	1-216-864-11	SHORT CHIP	0			R325	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R130	1-216-841-11	METAL CHIP	47K	5%	1/10W	R326	1-216-821-11	METAL CHIP	1K	5%	1/10W
R135	1-216-864-11	SHORT CHIP	0								
R151	1-216-833-11	METAL CHIP	10K	5%	1/10W	R328	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(G770CPK)	R329	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R151	1-216-864-11	SHORT CHIP	0	(G700CP/G770CP)		R330	1-216-817-11	METAL CHIP	470	5%	1/10W
						R331	1-216-837-11	METAL CHIP	22K	5%	1/10W
R152	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R332	1-216-853-11	METAL CHIP	470K	5%	1/10W
					(G770CPK)						
R153	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R333	1-216-833-11	METAL CHIP	10K	5%	1/10W
					(G770CPK)	R334	1-216-817-11	METAL CHIP	470	5%	1/10W
R154	1-216-833-11	METAL CHIP	10K	5%	1/10W	R335	1-216-837-11	METAL CHIP	22K	5%	1/10W
					(G770CPK)	R336	1-216-833-11	METAL CHIP	10K	5%	1/10W
R160	1-216-841-11	METAL CHIP	47K	5%	1/10W	R337	1-216-837-11	METAL CHIP	22K	5%	1/10W
R161	1-216-821-11	METAL CHIP	1K	5%	1/10W						
						R338	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R162	1-216-841-11	METAL CHIP	47K	5%	1/10W	R339	1-216-821-11	METAL CHIP	1K	5%	1/10W
R172	1-216-833-11	METAL CHIP	10K	5%	1/10W	R340	1-216-821-11	METAL CHIP	1K	5%	1/10W
R173	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R341	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R175	1-216-813-11	METAL CHIP	220	5%	1/10W	R342	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R176	1-216-801-11	METAL CHIP	22	5%	1/10W						
						R343	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R179	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R344	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R181	1-216-793-11	METAL CHIP	4.7	5%	1/10W	R345	1-216-817-11	METAL CHIP	470	5%	1/10W
R201	1-216-864-11	SHORT CHIP	0	(G700CP/G770CP)							(G700CP)
R202	1-216-833-11	METAL CHIP	10K	5%	1/10W	R346	1-216-805-11	METAL CHIP	47	5%	1/10W
R203	1-216-841-11	METAL CHIP	47K	5%	1/10W						(G700CP)
						R347	1-216-853-11	METAL CHIP	470K	5%	1/10W
R204	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R220	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R348	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R223	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R351	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R224	1-216-864-11	SHORT CHIP	0			R353	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R225	1-216-837-11	METAL CHIP	22K	5%	1/10W	R356	1-216-821-11	METAL CHIP	1K	5%	1/10W
						R357	1-216-817-11	METAL CHIP	470	5%	1/10W
R226	1-216-841-11	METAL CHIP	47K	5%	1/10W						
					(G700CP)	R359	1-216-797-11	METAL CHIP	10	5%	1/10W
R227	1-216-833-11	METAL CHIP	10K	5%	1/10W	R360	1-216-797-11	METAL CHIP	10	5%	1/10W
R229	1-216-864-11	SHORT CHIP	0			R361	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R230	1-216-841-11	METAL CHIP	47K	5%	1/10W	R362	1-216-817-11	METAL CHIP	470	5%	1/10W
R235	1-216-864-11	SHORT CHIP	0			R363	1-216-813-11	METAL CHIP	220	5%	1/10W
R251	1-216-833-11	METAL CHIP	10K	5%	1/10W	R364	1-216-857-11	METAL CHIP	1M	5%	1/10W
					(G770CPK)	R365	1-216-857-11	METAL CHIP	1M	5%	1/10W
R251	1-216-864-11	SHORT CHIP	0	(G700CP/G770CP)		R366	1-216-833-11	METAL CHIP	10K	5%	1/10W
R252	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R371	1-216-833-11	METAL CHIP	10K	5%	1/10W
					(G770CPK)	R372	1-216-833-11	METAL CHIP	10K	5%	1/10W
R253	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
					(G770CPK)	R409	1-216-821-11	METAL CHIP	1K	5%	1/10W
R254	1-216-833-11	METAL CHIP	10K	5%	1/10W	R418	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(G770CPK)						(G770CPK)
R261	1-216-821-11	METAL CHIP	1K	5%	1/10W	R419	1-216-841-11	METAL CHIP	47K	5%	1/10W
R262	1-216-864-11	SHORT CHIP	0								(G770CPK)
R272	1-216-833-11	METAL CHIP	10K	5%	1/10W	R420	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R273	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R427	1-216-821-11	METAL CHIP	1K	5%	1/10W
R275	1-216-813-11	METAL CHIP	220	5%	1/10W						
						R429	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R276	1-216-801-11	METAL CHIP	22	5%	1/10W						(G770CPK)
R279	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R430	1-216-841-11	METAL CHIP	47K	5%	1/10W
R281	1-216-793-11	METAL CHIP	4.7	5%	1/10W						(G770CPK)
R317	1-216-833-11	METAL CHIP	10K	5%	1/10W	R431	1-216-817-11	METAL CHIP	470	5%	1/10W
					(G700CP)						(G770CPK)
R318	1-216-853-11	METAL CHIP	470K	5%	1/10W	R432	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(G700CP)						(G770CPK)
						R433	1-216-841-11	METAL CHIP	47K	5%	1/10W
											(G770CPK)
R319	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
					(G700CP)	R434	1-216-821-11	METAL CHIP	1K	5%	1/10W
R322	1-216-864-11	SHORT CHIP	0								(G770CPK)
R324	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						

CFD-G700CP/G770CP/G770CPK

MAIN

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R435	1-216-829-11	METAL CHIP	4.7K 5% 1/10W (G770CPK)	R807	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R436	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (G770CPK)	R808	1-216-821-11	METAL CHIP	1K 5% 1/10W
R437	1-216-821-11	METAL CHIP	1K 5% 1/10W (G770CPK)	R809	1-216-821-11	METAL CHIP	1K 5% 1/10W
R438	1-216-821-11	METAL CHIP	1K 5% 1/10W (G770CPK)	R810	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R439	1-216-817-11	METAL CHIP	470 5% 1/10W (G770CPK)	R811	1-216-833-11	METAL CHIP	10K 5% 1/10W
R440	1-216-817-11	METAL CHIP	470 5% 1/10W (G770CPK)	R812	1-216-821-11	METAL CHIP	1K 5% 1/10W
R441	1-216-849-11	METAL CHIP	220K 5% 1/10W (G770CPK)	R813	1-216-821-11	METAL CHIP	1K 5% 1/10W
R444	1-216-845-11	METAL CHIP	100K 5% 1/10W (G770CPK)	R814	1-216-821-11	METAL CHIP	1K 5% 1/10W
R445	1-216-829-11	METAL CHIP	4.7K 5% 1/10W (G770CPK)	R815	1-216-821-11	METAL CHIP	1K 5% 1/10W
R446	1-216-817-11	METAL CHIP	470 5% 1/10W (G770CPK)	R816	1-216-821-11	METAL CHIP	1K 5% 1/10W
R447	1-216-841-11	METAL CHIP	47K 5% 1/10W (G770CPK)	R817	1-216-821-11	METAL CHIP	1K 5% 1/10W
R448	1-216-821-11	METAL CHIP	1K 5% 1/10W	R818	1-216-821-11	METAL CHIP	1K 5% 1/10W
R451	1-216-821-11	METAL CHIP	1K 5% 1/10W	R819	1-216-821-11	METAL CHIP	1K 5% 1/10W
R452	1-216-821-11	METAL CHIP	1K 5% 1/10W	R820	1-216-853-11	METAL CHIP	470K 5% 1/10W
R453	1-216-821-11	METAL CHIP	1K 5% 1/10W	R821	1-216-821-11	METAL CHIP	1K 5% 1/10W
R454	1-216-833-11	METAL CHIP	10K 5% 1/10W	R822	1-216-821-11	METAL CHIP	1K 5% 1/10W
R456	1-216-821-11	METAL CHIP	1K 5% 1/10W	R823	1-216-821-11	METAL CHIP	1K 5% 1/10W
R457	1-216-833-11	METAL CHIP	10K 5% 1/10W	R824	1-216-821-11	METAL CHIP	1K 5% 1/10W
R460	1-216-813-11	METAL CHIP	220 5% 1/10W	R825	1-216-821-11	METAL CHIP	1K 5% 1/10W
R461	1-216-817-11	METAL CHIP	470 5% 1/10W	R826	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (E41)
R462	1-216-817-11	METAL CHIP	470 5% 1/10W	R826	1-216-829-11	METAL CHIP	4.7K 5% 1/10W (SP, AUS)
R463	1-216-813-11	METAL CHIP	220 5% 1/10W	R827	1-216-825-11	METAL CHIP	2.2K 5% 1/10W (SP)
R468	1-216-821-11	METAL CHIP	1K 5% 1/10W	R827	1-216-829-11	METAL CHIP	4.7K 5% 1/10W (E41, AUS)
R470	1-216-817-11	METAL CHIP	470 5% 1/10W (G770CPK)	R828	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R477	1-216-845-11	METAL CHIP	100K 5% 1/10W	R829	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R480	1-216-841-11	METAL CHIP	47K 5% 1/10W	R830	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R481	1-216-841-11	METAL CHIP	47K 5% 1/10W	R831	1-216-821-11	METAL CHIP	1K 5% 1/10W (G770CPK)
R482	1-216-821-11	METAL CHIP	1K 5% 1/10W	R834	1-216-833-11	METAL CHIP	10K 5% 1/10W
R483	1-216-841-11	METAL CHIP	47K 5% 1/10W	R835	1-216-833-11	METAL CHIP	10K 5% 1/10W
R484	1-216-841-11	METAL CHIP	47K 5% 1/10W	R836	1-216-833-11	METAL CHIP	10K 5% 1/10W
R485	1-216-841-11	METAL CHIP	47K 5% 1/10W	R837	1-216-833-11	METAL CHIP	10K 5% 1/10W
R486	1-216-845-11	METAL CHIP	100K 5% 1/10W	R838	1-216-833-11	METAL CHIP	10K 5% 1/10W
R488	1-216-837-11	METAL CHIP	22K 5% 1/10W	R839	1-216-841-11	METAL CHIP	47K 5% 1/10W
R489	1-216-841-11	METAL CHIP	47K 5% 1/10W (G770CPK)	R840	1-216-833-11	METAL CHIP	10K 5% 1/10W
R490	1-216-864-11	SHORT CHIP	0	R841	1-216-833-11	METAL CHIP	10K 5% 1/10W
R491	1-216-864-11	SHORT CHIP	0	R842	1-216-833-11	METAL CHIP	10K 5% 1/10W
R492	1-216-864-11	SHORT CHIP	0	R843	1-216-833-11	METAL CHIP	10K 5% 1/10W
R493	1-216-821-11	METAL CHIP	1K 5% 1/10W	R844	1-216-833-11	METAL CHIP	10K 5% 1/10W
R494	1-216-841-11	METAL CHIP	47K 5% 1/10W (G770CPK)	R845	1-216-833-11	METAL CHIP	10K 5% 1/10W
R495	1-216-845-11	METAL CHIP	100K 5% 1/10W	R846	1-216-833-11	METAL CHIP	10K 5% 1/10W
R800	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R847	1-216-833-11	METAL CHIP	10K 5% 1/10W
R801	1-216-817-11	METAL CHIP	470 5% 1/10W	R848	1-216-833-11	METAL CHIP	10K 5% 1/10W
R802	1-216-821-11	METAL CHIP	1K 5% 1/10W	R849	1-216-833-11	METAL CHIP	10K 5% 1/10W
R803	1-216-821-11	METAL CHIP	1K 5% 1/10W	R850	1-216-833-11	METAL CHIP	10K 5% 1/10W
R804	1-216-821-11	METAL CHIP	1K 5% 1/10W	R851	1-216-833-11	METAL CHIP	10K 5% 1/10W
R805	1-216-821-11	METAL CHIP	1K 5% 1/10W	R852	1-216-833-11	METAL CHIP	10K 5% 1/10W
				R853	1-216-833-11	METAL CHIP	10K 5% 1/10W
				R854	1-216-833-11	METAL CHIP	10K 5% 1/10W
				R855	1-216-833-11	METAL CHIP	10K 5% 1/10W
				R856	1-216-833-11	METAL CHIP	10K 5% 1/10W
				R857	1-216-833-11	METAL CHIP	10K 5% 1/10W
				R858	1-216-833-11	METAL CHIP	10K 5% 1/10W
				R859	1-216-833-11	METAL CHIP	10K 5% 1/10W

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R860	1-216-833-11	METAL CHIP	10K	5%	1/10W	R946	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R861	1-216-833-11	METAL CHIP	10K	5%	1/10W	R947	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R862	1-216-833-11	METAL CHIP	10K	5%	1/10W	R948	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R863	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R864	1-216-821-11	METAL CHIP	1K	5%	1/10W	R949	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
						R950	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R865	1-216-821-11	METAL CHIP	1K	5%	1/10W	R951	1-216-845-11	METAL CHIP	100K	5%	1/10W
R866	1-216-833-11	METAL CHIP	10K	5%	1/10W	R952	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R867	1-216-833-11	METAL CHIP	10K	5%	1/10W	R953	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R868	1-216-817-11	METAL CHIP	470	5%	1/10W						
R869	1-216-821-11	METAL CHIP	1K	5%	1/10W	R954	1-216-845-11	METAL CHIP	100K	5%	1/10W
					(G770CPK)	R955	1-216-864-11	SHORT CHIP	0		
R870	1-216-821-11	METAL CHIP	1K	5%	1/10W	R957	1-216-864-11	SHORT CHIP	0		
R871	1-216-817-11	METAL CHIP	470	5%	1/10W	R960	1-216-817-11	METAL CHIP	470	5%	1/10W
R872	1-216-821-11	METAL CHIP	1K	5%	1/10W	R961	1-216-821-11	METAL CHIP	1K	5%	1/10W
R873	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R874	1-216-821-11	METAL CHIP	1K	5%	1/10W	R964	1-216-809-11	METAL CHIP	100	5%	1/10W
						R965	1-216-797-11	METAL CHIP	10	5%	1/10W
R875	1-216-821-11	METAL CHIP	1K	5%	1/10W	R966	1-216-797-11	METAL CHIP	10	5%	1/10W
R876	1-216-813-11	METAL CHIP	220	5%	1/10W			< VIBRATOR >			
R877	1-216-821-11	METAL CHIP	1K	5%	1/10W	X802	1-813-940-11	PIEZOELECTRIC OSCILLATOR (5.53MHz)			
R878	1-216-821-11	METAL CHIP	1K	5%	1/10W	*****					
R879	1-216-833-11	METAL CHIP	10K	5%	1/10W						
						A-1244-295-A	MICROPHONE BOARD, COMPLETE (G770CPK)				
R880	1-216-821-11	METAL CHIP	1K	5%	1/10W			*****			
R881	1-216-833-11	METAL CHIP	10K	5%	1/10W			< CAPACITOR >			
R882	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R883	1-216-821-11	METAL CHIP	1K	5%	1/10W	C408	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
R884	1-216-817-11	METAL CHIP	470	5%	1/10W	C414	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
					(G770CPK)			< DIODE >			
R885	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R886	1-216-841-11	METAL CHIP	47K	5%	1/10W	D401	8-719-059-97	DIODE L-34HD (KARAOKE PON)			
R887	1-216-841-11	METAL CHIP	47K	5%	1/10W			< JACK >			
					(G770CPK)						
R888	1-216-833-11	METAL CHIP	10K	5%	1/10W	J401	1-815-629-11	JACK (MIC MIX)			
					(G700CP/G770CP)			< COIL >			
R888	1-216-841-11	METAL CHIP	47K	5%	1/10W						
					(G770CPK)	L303	1-410-509-11	INDUCTOR	10uH		
R891	1-216-841-11	METAL CHIP	47K	5%	1/10W	L304	1-410-517-11	INDUCTOR	47uH		
R892	1-216-864-11	SHORT CHIP	0			L305	1-410-509-11	INDUCTOR	10uH		
R893	1-216-864-11	SHORT CHIP	0		(G700CP/G770CP)	L308	1-410-509-11	INDUCTOR	10uH		
R894	1-216-797-11	METAL CHIP	10	5%	1/10W			< RESISTOR >			
R895	1-216-797-11	METAL CHIP	10	5%	1/10W						
					(G770CPK)	R426	1-216-821-11	METAL CHIP	1K	5%	1/10W
R896	1-216-833-11	METAL CHIP	10K	5%	1/10W	R464	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R897	1-216-809-11	METAL CHIP	100	5%	1/10W	R465	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R898	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R473	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
					(US, CND, MX, E92)			< VARIABLE RESISTOR >			
R899	1-216-809-11	METAL CHIP	100	5%	1/10W						
R900	1-216-841-11	METAL CHIP	47K	5%	1/10W	RV401	1-227-757-11	RES, VAR, CARBON		10K (MIC LEVEL)	
								< SWITCH >			
R901	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R902	1-216-821-11	METAL CHIP	1K	5%	1/10W	S422	1-572-006-11	SWITCH, PUSH (1 KEY) (KARAOKE PON)			
R903	1-216-821-11	METAL CHIP	1K	5%	1/10W	*****					
R904	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R905	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R906	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R907	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R941	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
R942	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
R943	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
R944	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
R945	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						

CFD-G700CP/G770CP/G770CPK

POWER POWER KEY TC

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Ref. No.	Part No.	Description	Remark			
	A-1243-633-A	POWER BOARD, COMPLETE	(US, CND, MX, E92)			
	A-1244-369-A	POWER BOARD, COMPLETE	(SP, E41, AUS)			

	1-533-233-31	FUSE HOLDER				
	< CAPACITOR >					
C901	1-163-037-11	CERAMIC CHIP	0.022uF	10%	50V	
C902	1-163-037-11	CERAMIC CHIP	0.022uF	10%	50V	
C903	1-163-037-11	CERAMIC CHIP	0.022uF	10%	50V	
C904	1-163-037-11	CERAMIC CHIP	0.022uF	10%	50V	
C909	1-126-943-11	ELECT	2200uF	20%	25V	
C927	1-100-591-91	CERAMIC CHIP	1uF	10%	25V	
C928	1-100-162-91	CERAMIC CHIP	1uF		50V	
	< DIODE >					
D901	6-501-569-01	DIODE 1N5401-C352				
D902	6-501-569-01	DIODE 1N5401-C352				
D903	6-501-569-01	DIODE 1N5401-C352				
D904	6-501-569-01	DIODE 1N5401-C352				

	A-1244-294-A	POWER KEY BOARD, COMPLETE				

	3-831-441-11	CUSHION (B)				
	< RESISTOR >					
R399	1-216-817-11	METAL CHIP	470	5%	1/10W	
R400	1-216-813-11	METAL CHIP	220	5%	1/10W	
R408	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R455	1-216-809-11	METAL CHIP	100	5%	1/10W	
	< SWITCH >					
S403	1-786-050-21	SWITCH, KEY BOARD (DSPL/ENT)				
S408	1-786-050-21	SWITCH, KEY BOARD (POWER)				
S410	1-786-050-21	SWITCH, KEY BOARD (SLEEP)				

	A-1246-280-A	TC BOARD, COMPLETE				

	< CAPACITOR >					
C101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C102	1-104-658-91	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	
C107	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
C201	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C202	1-104-658-91	ELECT	100uF	20%	10V	
C203	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	
C204	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C205	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	
C207	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
C301	1-104-658-91	ELECT	100uF	20%	10V	
C302	1-104-658-91	ELECT	100uF	20%	10V	
C303	1-104-658-91	ELECT	100uF	20%	10V	
C304	1-126-947-11	ELECT	47uF	20%	35V	

Ref. No.	Part No.	Description	Remark		
C305	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C307	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
< CONNECTOR >					
CN303	1-568-830-11	CONNECTOR, FFC 11P			
< IC >					
IC301	6-710-092-01	IC TA2068NG (5, HZ)			
< JUMPER RESISTOR >					
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	1-216-295-91	SHORT CHIP	0		
JC307	1-216-864-11	SHORT CHIP	0		
JC308	1-216-295-91	SHORT CHIP	0		
< TRANSISTOR >					
Q301	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		
< RESISTOR >					
R101	1-216-835-11	METAL CHIP	15K	5%	1/10W
R102	1-216-807-11	METAL CHIP	68	5%	1/10W
R103	1-216-843-11	METAL CHIP	68K	5%	1/10W
R104	1-216-835-11	METAL CHIP	15K	5%	1/10W
R105	1-216-835-11	METAL CHIP	15K	5%	1/10W
R106	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R110	1-216-809-11	METAL CHIP	100	5%	1/10W
R111	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R112	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R201	1-216-835-11	METAL CHIP	15K	5%	1/10W
R202	1-216-807-11	METAL CHIP	68	5%	1/10W
R203	1-216-843-11	METAL CHIP	68K	5%	1/10W
R204	1-216-835-11	METAL CHIP	15K	5%	1/10W
R205	1-216-835-11	METAL CHIP	15K	5%	1/10W
R206	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R210	1-216-025-11	RES-CHIP	100	5%	1/10W
R211	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R212	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R301	1-216-857-11	METAL CHIP	1M	5%	1/10W
R302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R303	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R304	1-216-821-11	METAL CHIP	1K	5%	1/10W
R305	1-216-817-11	METAL CHIP	470	5%	1/10W
R306	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R307	1-216-797-11	METAL CHIP	10	5%	1/10W
R308	1-216-837-11	METAL CHIP	22K	5%	1/10W
R309	1-216-805-11	METAL CHIP	47	5%	1/10W
R314	1-216-817-11	METAL CHIP	470	5%	1/10W
R315	1-216-817-11	METAL CHIP	470	5%	1/10W
< SWITCH >					
S301	1-786-126-11	SWITCH, SLIDE (REC/PB)			

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< TRANSFORMER >				C59	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
T301	1-416-041-11	TRANSFORMER, BIAS OSCILLATION		C60	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
*****				C61	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
A-1244-418-A		TUNER BOARD, COMPLETE		C62	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
		(US, CND, MX, E92)		C63	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
A-1244-419-A		TUNER BOARD, COMPLETE (SP, E41, AUS)		C65	1-126-963-11	ELECT 4.7uF 20%	50V
*****				C66	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
2-895-061-01		TERMINAL, ANTENNA		C68	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
< CAPACITOR >				C77	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
C1	1-162-923-11	CERAMIC CHIP 47PF 5%	50V			(SP, E41, AUS)	
C4	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C78	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
C7	1-162-910-11	CERAMIC CHIP 5PF 0.25PF	50V			(SP, E41, AUS)	
C8	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C80	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C9	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V	C95	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C10	1-126-960-11	ELECT 1uF 20%	50V	< FILTER >			
C11	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	CF2	1-760-235-81	FILTER, CERAMIC	
C12	1-126-963-11	ELECT 4.7uF 20%	50V	CF4	1-781-962-21	FILTER, CERAMIC	
C13	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	< CONNECTOR >			
		(US, CND, MX, E92)		CNP1	1-568-854-11	CONNECTOR, FFC 11P	
C14	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	< TRIMMER >			
		(SP, E41, AUS)		CT1	1-141-442-91	CAP, CERAMIC TRIMMER 20PF	
C14	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V	CT3	1-141-304-21	CAP, CERAMIC TRIMMER 10PF	
		(US, CND, MX, E92)		< DIODE >			
C15	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V				
		(SP, E41, AUS)		D1	8-719-078-48	DIODE KV1471ETR-G	
C15	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V	D2	8-719-078-48	DIODE KV1471ETR-G	
		(US, CND, MX, E92)		D3	8-719-050-69	DIODE KV1520N	
C18	1-126-923-91	ELECT 220uF 20%	10V	D10	8-719-988-61	DIODE 1SS355TE-17	
C20	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	D11	8-719-988-61	DIODE 1SS355TE-17	
C21	1-126-960-11	ELECT 1uF 20%	50V	< IC >			
C22	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	IC1	6-700-512-01	IC TA2149BN	
C23	1-126-960-11	ELECT 1uF 20%	50V	IC2	8-759-483-40	IC LC72137M-TLM-E	
C24	1-162-960-11	CERAMIC CHIP 220PF 10%	50V	< JUMPER RESISTOR >			
C26	1-162-927-11	CERAMIC CHIP 100PF 5%	50V				
C27	1-162-927-11	CERAMIC CHIP 100PF 5%	50V	JC1	1-216-864-11	SHORT CHIP 0	
C29	1-104-658-91	ELECT 100uF 20%	10V	JC2	1-216-864-11	SHORT CHIP 0	
C30	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	JC3	1-216-864-11	SHORT CHIP 0	
C31	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	JC4	1-216-864-11	SHORT CHIP 0	
C32	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	JC5	1-216-864-11	SHORT CHIP 0	
C33	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	JC6	1-216-864-11	SHORT CHIP 0	
C34	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	JC11	1-216-864-11	SHORT CHIP 0	
C35	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	JC12	1-216-864-11	SHORT CHIP 0	
C37	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	JC13	1-216-864-11	SHORT CHIP 0	
C39	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	JC24	1-216-864-11	SHORT CHIP 0 (SP, E41, AUS)	
C41	1-164-230-11	CERAMIC CHIP 220PF 5%	50V	JC33	1-216-864-11	SHORT CHIP 0	
C42	1-162-927-11	CERAMIC CHIP 100PF 5%	50V	JC34	1-216-864-11	SHORT CHIP 0	
C43	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	< COIL >			
C47	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V				
C49	1-161-051-00	CERAMIC 0.01uF 10%	25V	L1	1-409-775-11	COIL, AIR-CORE	
C51	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	L2	1-416-509-11	COIL, AIR-CORE	
C52	1-162-915-11	CERAMIC CHIP 10PF 0.5PF	50V	L3	1-754-117-12	ANTENNA, FERRITE-ROD (MW)	
C53	1-137-190-91	FILM 0.22uF 5%	50V	L4	1-411-234-21	COIL, AM OSC	
C54	1-126-923-91	ELECT 220uF 20%	10V	L11	1-414-142-11	INDUCTOR 1uH (US, CND, MX, E92)	
C55	1-162-927-11	CERAMIC CHIP 100PF 5%	50V				
C56	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V				
C57	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V				

CFD-G700CP/G770CP/G770CPK

TUNER **VOLUME KEY** **WOOFER KEY**

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Ref. No.	Part No.	Description	Remark		
L21	1-410-509-11	INDUCTOR	10uH		
		< RESISTOR >			
R1	1-216-817-11	METAL CHIP	470	5%	1/10W
R2	1-216-817-11	METAL CHIP	470	5%	1/10W
R3	1-216-833-11	METAL CHIP	10K	5%	1/10W
R4	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5	1-216-821-11	METAL CHIP	1K	5%	1/10W
R10	1-216-805-11	METAL CHIP	47	5%	1/10W
R11	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R13	1-216-821-11	METAL CHIP	1K	5%	1/10W
R14	1-216-821-11	METAL CHIP	1K	5%	1/10W
R24	1-216-813-11	METAL CHIP	220	5%	1/10W
R30	1-216-837-11	METAL CHIP	22K	5%	1/10W
R31	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R32	1-216-845-11	METAL CHIP	100K	5%	1/10W
R33	1-216-833-11	METAL CHIP	10K	5%	1/10W
R40	1-216-849-11	METAL CHIP	220K	5%	1/10W
R41	1-216-833-11	METAL CHIP	10K	5%	1/10W
R50	1-216-821-11	METAL CHIP	1K	5%	1/10W
R51	1-216-833-11	METAL CHIP	10K	5%	1/10W
R52	1-216-864-11	SHORT CHIP	0		
R53	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R54	1-216-817-11	METAL CHIP	470	5%	1/10W
R55	1-216-833-11	METAL CHIP	10K	5%	1/10W
R56	1-216-813-11	METAL CHIP	220	5%	1/10W
R57	1-216-809-11	METAL CHIP	100	5%	1/10W
R58	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R59	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R60	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R61	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R63	1-216-833-11	METAL CHIP	10K	5%	1/10W
R65	1-216-833-11	METAL CHIP	10K	5%	1/10W
R91	1-216-813-11	METAL CHIP	220	5%	1/10W
R92	1-216-813-11	METAL CHIP	220	5%	1/10W
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)			
		< VIBRATOR >			
X1	1-795-449-11	VIBRATOR, CRYSTAL (75kHz)			

	A-1244-293-A	VOLUME KEY BOARD, COMPLETE			

	3-831-441-11	CUSHION (B)			
		< RESISTOR >			
R411	1-216-813-11	METAL CHIP	220	5%	1/10W
R412	1-216-817-11	METAL CHIP	470	5%	1/10W
R413	1-216-821-11	METAL CHIP	1K	5%	1/10W
R414	1-216-821-11	METAL CHIP	1K	5%	1/10W
R415	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R425	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R443	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description	Remark		
R458	1-216-809-11	METAL CHIP	100	5%	1/10W
< SWITCH >					
S404	1-786-050-21	SWITCH, KEY BOARD (MODE)			
S407	1-786-050-21	SWITCH, KEY BOARD (VOL+)			
S411	1-786-050-21	SWITCH, KEY BOARD			
(AUTO PRESET RADIO/BAND)					
S412	1-786-050-21	SWITCH, KEY BOARD (AUDIO IN)			
S418	1-786-050-21	SWITCH, KEY BOARD (REPEAT)			
S420	1-786-050-21	SWITCH, KEY BOARD (VOL-)			

A-1244-298-A		WOOFER KEY BOARD, COMPLETE			

3-831-441-11		CUSHION (B)			
< CONNECTOR >					
CNP401	1-815-443-11	PIN, CONNECTOR (PWB) 2P			
< RESISTOR >					
R401	1-216-813-11	METAL CHIP	220	5%	1/10W
R402	1-216-817-11	METAL CHIP	470	5%	1/10W
R403	1-216-821-11	METAL CHIP	1K	5%	1/10W
R416	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R417	1-216-821-11	METAL CHIP	1K	5%	1/10W
R423	1-216-821-11	METAL CHIP	1K	5%	1/10W
R424	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R459	1-216-809-11	METAL CHIP	100	5%	1/10W
< SWITCH >					
S409	1-786-050-21	SWITCH, KEY BOARD (ROCK)			
S415	1-786-050-21	SWITCH, KEY BOARD (DANCE)			
S416	1-786-050-21	SWITCH, KEY BOARD (SALSA)			
S417	1-786-050-21	SWITCH, KEY BOARD (FLAT)			
S419	1-786-050-21	SWITCH, KEY BOARD			
(POWER DRIVE WOOFER)					
S421	1-786-050-21	SWITCH, KEY BOARD (REGGAETON)			

MISCELLANEOUS					

△ 160	8-820-126-02	OPTICAL PICK-UP (KSM-213CDP/C2NP)			
164	1-832-404-21	CABLE, FLEXIBLE FLAT (16 CORE)			
166	1-832-613-21	CABLE, FLEXIBLE FLAT (21 CORE)			
205	1-754-376-11	ANTENNA, TELESCOPIC			
206	1-452-899-11	MAGNET			
253	1-797-375-11	DECK, MECHANICAL (H21SB-C05)			
CNP2	1-833-922-11	CORD, CONNECTION (WITH PLUG)			
D403	6-501-452-01	DIODE 1L4345V22DOTDT02 (ILLUMINATION)			
D404	6-501-452-01	DIODE 1L4345V22DOTDT02 (ILLUMINATION)			
D405	6-501-452-01	DIODE 1L4345V22DOTDT02 (ILLUMINATION)			
D407	6-501-452-01	DIODE 1L4345V22DOTDT02 (ILLUMINATION)			
D408	6-501-452-01	DIODE 1L4345V22DOTDT02 (ILLUMINATION)			
D409	6-501-452-01	DIODE 1L4345V22DOTDT02 (ILLUMINATION)			
D410	6-501-452-01	DIODE 1L4345V22DOTDT02 (ILLUMINATION)			
D411	6-501-452-01	DIODE 1L4345V22DOTDT02 (ILLUMINATION)			
△ F902	1-532-504-33	FUSE (T4AL/250V)			

Ref. No.	Part No.	Description	Remark
△ J901	1-526-838-11	INLET, AC 2P (∼ AC IN) (SP, E41, AUS)	
△ J901	1-540-009-11	INLET, AC (∼ AC IN) (US, CND, MX, E92)	
S201	1-771-853-11	SWITCH, DETECTION (LIMIT)	
SP191	1-826-684-11	SPEAKER (10cm)	
SP291	1-826-684-11	SPEAKER (10cm)	
SP393	1-826-683-11	SPEAKER (13cm)	
SW2	1-692-960-11	SWITCH, PUSH (1 KEY)	
		(▲ PUSH OPEN/CLOSE)	
△ T901	1-435-964-12	TRANSFORMER, POWER (US, CND, MX, E92)	
△ T901	1-435-965-12	TRANSFORMER, POWER (SP, E41, AUS)	

ACCESSORIES

	A-1246-031-A	REMOTE COMMANDER (RMT-CG700A)	
		(Including Battery Case)	
△	1-769-412-22	CORD, POWER (G770CP)	
△	1-782-126-11	CORD, POWER (US, CND, MX, E92)	
△	1-827-945-12	CORD, POWER (AUS)	
	3-096-718-11	MANUAL, INSTRUCTION (ENGLISH) (G700CP)	
	3-096-718-21	MANUAL, INSTRUCTION (ENGLISH, SPANISH)	
		(E92)	
	3-096-718-31	MANUAL, INSTRUCTION (ENGLISH, FRENCH)	
		(SP)	
	3-096-718-41	MANUAL, INSTRUCTION (SPANISH) (E41)	
	3-096-718-51	MANUAL, INSTRUCTION (ENGLISH) (AUS)	
	3-096-718-61	MANUAL, INSTRUCTION (ENGLISH, FRENCH)	
		(CND)	
	3-096-718-71	MANUAL, INSTRUCTION (SPANISH) (MX)	

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