

CA-V100

SERVICE MANUAL

E Model

Ver 1.0 2004.02



CD Section	Model Name Using Similar Mechanism	CSD-MP100
	CD Mechanism Type	KSM-213RDP
	Optical Pick-up Name	KSS-213R
TC Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	MF-V100

SPECIFICATIONS

CD player section

System

Compact disc digital audio/video system

Laser diode properties

Material: GaAlAs

Wave length: 780 nm

Emission duration: Continuous

Laser output: Less than 44.6 μ W

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

Spindle speed

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

Number of channels

2

Frequency response

20 - 20,000 Hz

Wow and flutter

Below measurable limit

Color system format

NTSC, PAL

Radio section

Frequency range

FM	87.5 - 108 MHz
MW	531 - 1,611 kHz (9 kHz step) 530 - 1,610 kHz (10 kHz step)
SW 1	3.2 - 7.3 MHz
SW 2	9.5 - 21.85 MHz

IF

FM: 10.7 MHz

MW/SW: 450 kHz

Antennas

FM/SW: Telescopic antenna

MW: Built-in ferrite bar antenna

Cassette recorder section

Recording system

4-track 2channel stereo

Fast winding time

Approx. 120 sec. with Sony cassette C-60

Frequency response

TYPE I (normal): 80 - 10,000Hz

General

Speakers

Full range: 12 cm (4 3/4 in.) dia., 3.0 Ω , cone type

Input

MIC (Mixing microphone input) jack (minijack):

Sensitivity 3 mV

Outputs

PHONES (Headphones) jack (stereo minijack):

For 16 - 68 Ω impedance headphones

VIDEO OUT (Video output, phono) jack:

Output level 1 Vp-p at 75 Ω

— Continued on next page —

VCD STEREO RADIO CASSETTE RECORDER

9-877-627-01

2004B04-1

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Sony Corporation

Personal Audio Company

Published by Sony Engineering Corporation



CA-V100

Maximum power output
4.5 W + 4.5 W

Power requirements
For the VCD stereo radio cassette recorder:
110 - 127 V/220 - 240 V AC selectable, 50/60 Hz
12 V DC, eight R20 (size D) batteries
For the remote:
3 V DC, two R06 (size AA) batteries

Power consumption
AC 30 W

Battery life

FM recording
Sony R20P: Approx. 6 h
Sony alkaline LR20: Approx. 15 h
Tape playback
Sony R20P: Approx. 3.5 h
Sony alkaline LR20: Approx. 12 h
Audio CD playback
Sony R20P: Approx. 1 h
Sony alkaline LR20: Approx. 4.5 h

Dimensions (incl. projecting parts and controls)
Player: Approx. 274 × 245 × 219 mm (w/h/d)
(10 7/8 × 9 3/4 × 8 5/8 inches)
Speaker: Approx. 160 × 242 × 187 mm (w/h/d)
(6 3/8 × 9 5/8 × 7 3/8 inches)

Mass
Player: Approx. 3.1 kg (6 lb 12 oz)
Speaker: Approx. 1.0 kg (2 lb 3 oz)

Supplied accessories
AC power cord (1)
Remote control (1) (RM-Z1A002)
Video cord (1)

Design and specifications are subject to change without notice.

CAUTION

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

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

- Notes on Chip Component Replacement**
- Never reuse a disconnected chip component.
 - Notice that the minus side of a tantalum capacitor may be damaged by heat.

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

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

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

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

SAFETY-RELATED COMPONENT WARNING!!

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

TABLE OF CONTENTS

1. SERVICING NOTES	4	6. DIAGRAMS	
2. GENERAL		6-1. IC Pin Descriptions	20
Basic Operations	5	6-2. Block Diagram – VCD Section –	25
Playing an audio CD or MP3 files	5	6-3. Block Diagram – Tuner Section –	26
Playing a VIDEO CD	6	6-4. Block Diagram – Main Section –	27
Listening to the radio	6	6-5. Note for Printed Wiring Boards and Schematic Diagrams	28
Playing a tape	7	6-6. Waveforms	28
Recording on a tape	7	6-7. Circuit Boards Location	28
Dubbing	8	6-8. Printed Wiring Board – VCD Section –	29
The CD Player (Audio CD and MP3 Files)	8	6-9. Schematic Diagram – VCD Section (1/3) –	30
The Timer	9	6-10. Schematic Diagram – VCD Section (2/3) –	31
Setting Up	9	6-11. Schematic Diagram – VCD Section (3/3) –	32
3. DISASSEMBLY		6-12. Printed Wiring Board – Main Section –	33
3-1. Rear Cabinet Section	11	6-13. Schematic Diagram – Main Section (1/4) –	34
3-2. Front Cabinet Section, Upper Cabinet Section	11	6-14. Schematic Diagram – Main Section (2/4) –	35
3-3. Main Board	12	6-15. Schematic Diagram – Main Section (3/4) –	36
3-4. CD Block Assy	12	6-16. Schematic Diagram – Main Section (4/4) –	37
3-5. Optical Pick-up	13	6-17. Printed Wiring Board – Power Section –	38
3-6. Mechanism Block	13	6-18. Schematic Diagram – Power Section –	39
3-7. Main Belt	14	6-19. IC Block Diagrams	40
3-8. Power Board	14	7. EXPLODED VIEWS	
3-9. CD Lid Assy	15	7-1. Main Section	42
4. MECHANICAL ADJUSTMENTS	16	7-2. Front Cabinet (1) Section	43
5. ELECTRICAL ADJUSTMENTS		7-3. Front Cabinet (2) Section	44
Tape Section	17	7-4. Upper Cabinet Section	45
Tuner Section	18	7-5. Rear Cabinet Section	46
CD Section	19	7-6. CD Mechanism Section	47
		7-7. Speaker Section	48
		8. ELECTRICAL PARTS LIST	49

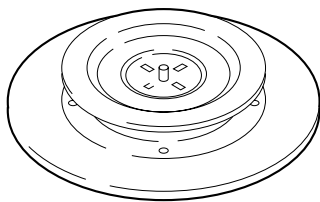
SECTION 1

SERVICING NOTES

CHUCK PLATE JIG ON REPAIRING

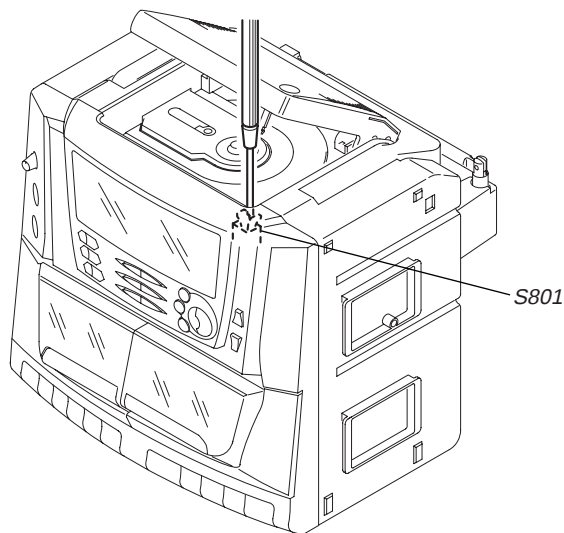
On repairing CD section, playing a disc without the lid (CD), use Chuck Plate Jig.

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



LASER DIODE AND FOCUS SEARCH OPERATION CHECK

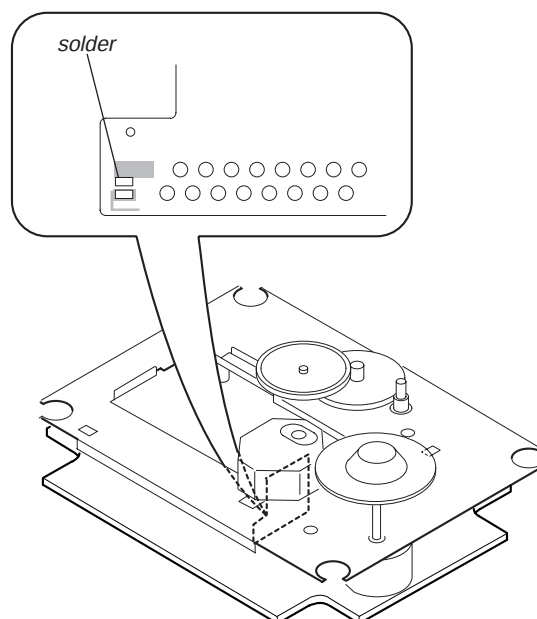
1. Turn ON the **[POWER]** button and press **[CD]** button to CD position.
2. Open the CD lid.
3. Turn on S801 with screwdriver, etc. as following figure.
4. Press the **[▶||]** (CD) button.
5. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power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



PRECAUTION TO REPLACE OPTICAL BLOCK (KSM-213RDP)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.

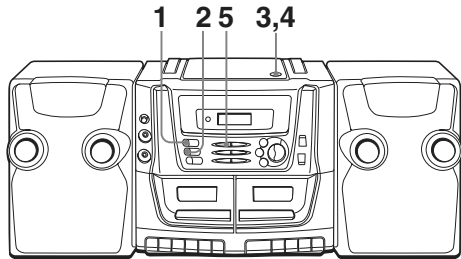


SECTION 2
GENERAL

This section is extracted
from instruction manual.

Basic Operations

Playing an audio CD or MP3 files



For hookup instructions, see pages 30 and 31.

- 1

Press POWER to turn on the player.
- 2

Press FUNCTION repeatedly to select the CD function.
- 3

Press CD OPEN to open the lid of the CD compartment and place a CD on the CD compartment.

With the labeled side up
- 4

Close the lid of the CD compartment.

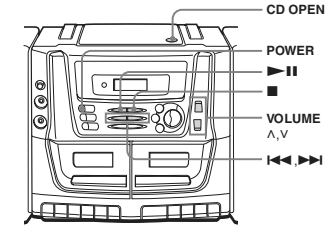
4GB

- 5

Press (PRESET) on the remote).
The player plays all the tracks once.
To play a CD with MP3 files, see page 6.

Display
Track number
Playing time

Use these buttons for additional operations



To	Press
adjust the volume	VOLUME ▲*, ▼ (VOL +*, – on the remote)
stop playback	
pause playback	(II) (on the remote) Press the button again to resume play after pause.
go to the next track	►►
go back to the previous track	◀◀
remove the CD	CD OPEN
turn on/off the player	POWER

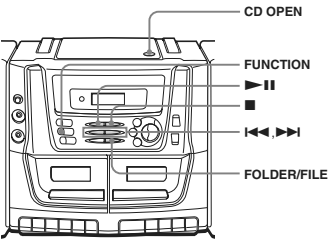
* The button has a tactile dot.

Basic Operations

5GB

Playing an audio CD or MP3 files (continued)

Playing a CD with MP3 files



- 1

Press FUNCTION repeatedly to select the CD function.
- 2

Press CD OPEN to open the CD compartment and place a CD with MP3 files on the CD compartment (see page 4) .
- 3

Close the lid of the CD compartment.
- 4

Press (PRESET) on the remote).
The player plays all MP3 files on the CD.



To select a folder
In stop mode, press FOLDER/FILE to display only the folder number, then press to go forward and to go backward.
Alternatively, press FOLDER + on the remote to go forward and FOLDER – to go backward.

To select a file
In stop mode, press FOLDER/FILE to display the folder number and file number, then press to go forward and to go backward.

Note
Before playing a file, this player reads file and folder information on the CD. Depending on the file structure, it may take more than a minute to read them. During this time, “Cd” flashes in the display.

Tips

- You can use the buttons mentioned in the table on page 5 for additional operations in the same way as when playing an audio CD.
- During playback, you can change the display to show the folder number and file number by pressing DISPLAY on the remote.

6GB

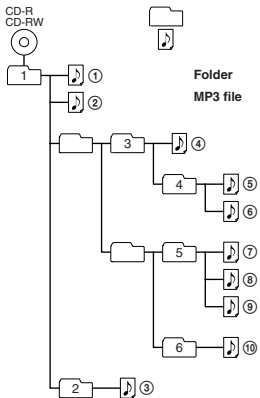
Notes

- A folder that does not include an MP3 file is skipped.
- This player does not support the ID3 tag function.
- This player does not support a multi-session disc. The player only plays the contents recorded in the first session on a multi-session disc.

Tip
When connected to the TV, the folder name and file name are displayed (up to 8 characters each) on the TV screen. However, they may not be displayed correctly depending on the disc format.

Example of folder structure and playing order

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



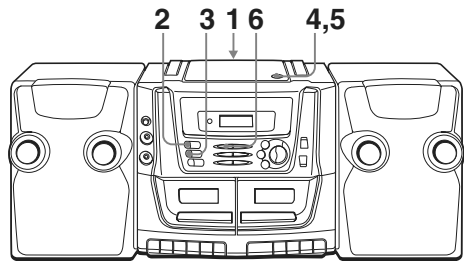
About CD-Rs/CD-RWs and MP3 files
This player can play CD-Rs/CD-RWs recorded in the CD-DA format* and MP3 files recorded in the CD-ROM format, but playback capability may vary depending on the quality of the disc and the condition of the recording device.

* CD-DA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for Audio CDs.

Basic Operations

7GB

Playing a VIDEO CD



For hookup instructions, see pages 30 and 31.

1 Before turning on the power, set the color system switch on the rear of the player to NTSC or PAL according to the color system of your TV.



2 Press POWER to turn on the player.

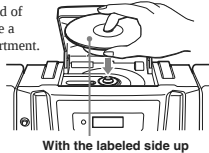


3 Press FUNCTION repeatedly to select the CD function.



4 Press CD OPEN to open the lid of the CD compartment and place a VIDEO CD on the CD compartment.

CD OPEN



With the labeled side up

5 Close the lid of the CD compartment.

CD OPEN

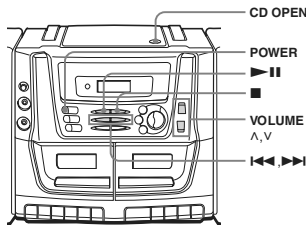


8GB

6 Press **II** /PRESET (on the remote). The player starts playing the VIDEO CD.



Use these buttons for additional operations

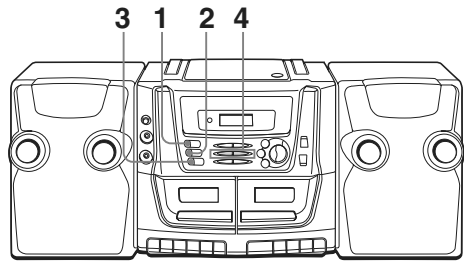


To	Do this
adjust the volume	Press VOLUME Δ *, V (VOL +*, - on the remote).
stop playback	Hold down II for about 2 seconds.
return to the menu	Press II (on the remote).
pause playback	Press II (on the remote). Press the button again to resume play after pause.
go to the next track** or scene	Press II .
go back to the previous track** or scene	Press II .
remove the CD	Press CD OPEN.
turn on/off the player	Press POWER.

* The button has a tactile dot.
**Only for a VIDEO CD without PBC functions (Version 1.1) or when PBC is turned off.

Basic Operations

Listening to the radio

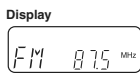


For hookup instructions, see pages 30 and 31.

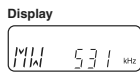
1 Press POWER to turn on the player.



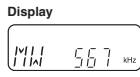
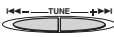
2 Press FUNCTION repeatedly to select the tuner function.



3 Press BAND repeatedly until the band you want appears in the display. Each time you press the button, the band changes as follows:
"FM" $\rightarrow$ "MW" $\rightarrow$ "SW 1" $\rightarrow$ "SW 2"



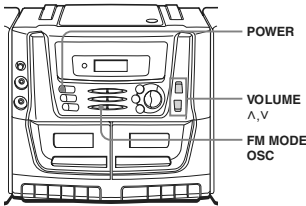
4 Hold down TUNE - or TUNE + until the frequency digits begin to change in the display.
The player automatically scans the radio frequencies and stops when it finds a clear station.
If you cannot tune in a station, press TUNE - or TUNE + repeatedly to change the frequency step by step.



Note
SW stations out of the meter bands cannot be tuned to automatically.

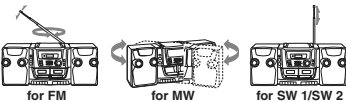
Tips
• If the FM broadcast is noisy, press FM MODE/ OSC repeatedly so that "MONO" appears in the display and the radio will play in monaural.
• If you need to change the MW tuning interval, see page 31.

Use these buttons for additional operations



To	Press
adjust the volume	VOLUME Δ *, V (VOL +*, - on the remote)
turn on/off the player	POWER

* The button has a tactile dot.
To improve broadcast reception
Reorient the antenna for FM.
Reorient the player itself for MW.
For SW 1/SW 2, extend the antenna vertically.



Frequencies on shortwave (SW) meter bands

Each meter band corresponds to the frequencies.

Meter band	Frequencies
SW 1	90 m 3,200 - 3,400 kHz
	75 m 3,900 - 4,000 kHz
	60 m 4,750 - 5,060 kHz
	49 m 5,950 - 6,200 kHz
	41 m 7,100 - 7,300 kHz
SW 2	31 m 9,500 - 9,900 MHz
	25 m 11,650 - 12,050 MHz
	22 m 13,600 - 13,800 MHz
	19 m 15,100 - 15,600 MHz
	16 m 17,550 - 17,900 MHz
	13 m 21,450 - 21,850 MHz

Basic Operations

10GB

11GB

Playing a tape

4

1

2

3

4

3

For hookup instructions, see pages 30 and 31.

1

Press POWER to turn on the player.

2

Press FUNCTION repeatedly to select the tape function.

Display

3

Press to open the tape compartment and insert a recorded tape.
Use TYPE I (normal) tapes only.
Close the compartment.

With the side you want to play facing you

4

Press .
The player starts playing.

* has a tactile dot.

12GB

Use these buttons for additional operations

To	Press
adjust the volume	VOLUME ▲*, ▼ (VOL +*, – on the remote)
stop playback	
fast-forward or rewind the tape	or
pause playback	
	Press the button again to resume play after pause.
eject the cassette	
turn on/off the player	POWER

* The button has a tactile dot.

Tip
After playback on deck 2 finishes, you can make the player start playback on deck 1 without interruption.
During playback on deck 2, press and then on deck 1.
At the end of playback on deck 2, on deck 1 will be released and playback on deck 1 will start.

Basic Operations

13GB

Recording on a tape

4

1

3

2

For hookup instructions, see pages 30 and 31.

1

Press POWER to turn on the player.

2

Deck 1

Press to open the tape compartment on deck 1 and insert a blank tape.
Use TYPE I (normal) tapes only.
Close the compartment.

With the side you want to record on facing you

3

Select the audio source you want to record.
To record from the CD player, press FUNCTION repeatedly to select the CD function and insert a CD (see page 4).
To record from the radio, press FUNCTION repeatedly to select the radio function and tune in the station you want (see page 10).

Display

14GB

4

Deck 1

Start recording.
Press on deck 1 (is depressed automatically).

Use these buttons for additional operations

To	Press
stop recording	on deck 1
pause recording	on deck 1 Press the button again to resume recording.
turn on/off the player	POWER

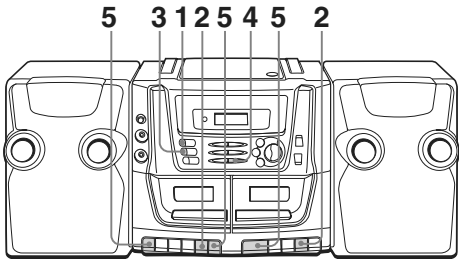
Tips

- Adjusting the volume or the audio emphasis (see page 27) will not affect the recording level.
- If the MW program makes a whistling sound after you have pressed in step 4, press FM MODE/OSC to select the beat mode ("bt 1" or "bt 2") that decreases the noise the better.
- For the best results, use the AC power as the power source for recording.
- To erase a recording, proceed as follows:
1 Disconnect the microphone if it is connected to the MIC jack.
2 Insert the tape whose recording you want to erase into deck 1.
3 Press FUNCTION repeatedly to select the tape function.
4 Press .

Basic Operations

15GB

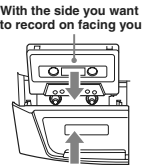
Dubbing



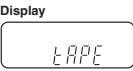
For hookup instructions, see pages 30 and 31.

1 Press POWER to turn on the player.

2 Insert a blank tape into deck 1 and a recorded tape into deck 2. Use TYPE I (normal) tapes only. Close the compartments.



3 Press FUNCTION repeatedly to select the tape function.



4 To dub at high speed, press HI SPEED DUB so that the HIGH SPEED DUBBING indicator lights up.

To dub at normal speed, press the button again to turn off the HIGH SPEED DUBBING indicator.

5 Start recording.

Press **II** and then **●** on deck 1 (▶ is depressed automatically). Then, press ▶ on deck 2.

Deck 1

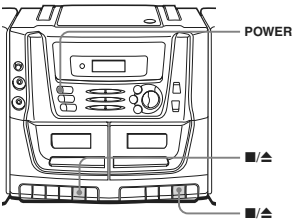
FF STOP/EJECT PAUSE

REC PLAY REW

Deck 2

PLAY REW

Use these buttons for additional operations



To	Press
stop dubbing	■/▲ on deck 1 and deck 2
turn on/off the player	POWER

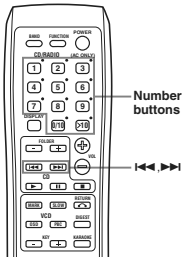
- Notes**
- During dubbing, do not press FUNCTION or HI SPEED DUB as this causes excessive wow and flutter.
 - During high speed dubbing, noise from the TV may be recorded. In this case, disconnect the player from the TV (if the player is connected to the TV), and keep the player away from the TV.

- Tips**
- Adjusting the volume or the audio emphasis (see page 27) will not affect the recording level.
 - For the best results, use the AC power as the power source for recording.
 - When the tape in deck 2 ends first, deck 1 will continue recording till the tape ends.

The CD Player (Audio CD and MP3 Files)

Locating a specific track

You can quickly locate any track on a CD using the number buttons. You can also find a specific point in a track while playing a CD.



To locate	Do this
a specific track (file) directly	Press the number button of the track (file)
a point while listening to the sound *	Hold down ►► (forward) or ◄◄ (backward) while playing until you find the point.
a point while observing the display	Hold down ►► (forward) or ◄◄ (backward) in pause until you find the point.

* There is no sound when playing MP3 files.

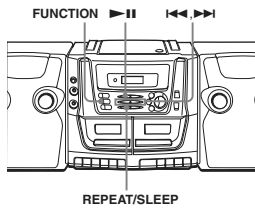
Note

You cannot locate a specific track if "M" is lit in the display. Turn off the indication by holding down MEMORY/■ for 2 seconds.

- Tips**
- When you locate a track numbered over 10, press >10 first, then the corresponding number buttons. Example: To play track number 23, press >10 first, then 2 and 3.
 - To select a track numbered over 100 or more, press >10 first, then the corresponding number buttons. Example: To play track number 123, press >10 first, then 1, 2 and 3.

Playing tracks repeatedly (Repeat Play)

You can play tracks repeatedly in normal or program play mode (see page 20).



1 Press FUNCTION repeatedly to select the CD function.

2 Proceed as follows:

To repeat	Do this
a single track (file)	1 Press REPEAT/SLEEP until "1" appears. 2 Press ◄◄ or ►► to select the track you want to repeat, then press ►► (▶ on the remote). Alternatively, press the number button on the remote for the track you want to repeat.
all the tracks (files)	1 Press REPEAT/SLEEP until "∞" appears. 2 Press ►► (▶ on the remote) .
programed tracks*	1 Program tracks (see page 20). 2 Press REPEAT/SLEEP until "∞" and "M" appear. 3 Press ►► (▶ on the remote).

* This function is available with audio CDs and VIDEO CDs when PBC is turned off.

To cancel repeat play

Press REPEAT/SLEEP until "∞" disappears from the display.

When playing MP3 files

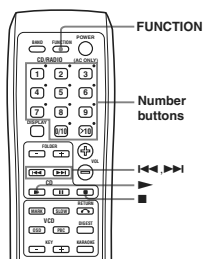
When you select "∞", the player plays all files of a CD repeatedly.

Tip

Repeat Play function is also available with VIDEO CDs without PBC functions or when PBC is turned off.

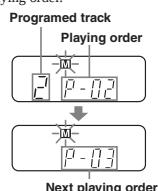
Creating your own program (Program Play)

You can arrange the playing order of up to 30 tracks on an audio CD.



- 1 Press FUNCTION repeatedly to select the CD function.
- 2 Hold down ■ in stop mode until "M" flashes in the display.
- 3 Press the number button for the track you want to program. Alternatively, press ◀▶ or ▶▶ to select the track you want to program, then press ■.

After showing the programmed track and its playing order for a few seconds, the display changes to show the next playing order.



20GB

Repeat this step.

- 4 Hold down ■ until "M" is lit continuously.
- 5 Press ▶▶ to start program play.

To clear the program

In stop mode, hold ■ until "M" disappears from the display. You can also clear the program by opening the CD compartment.

To check the order of tracks before play

In stop mode, press ◀▶ or ▶▶ repeatedly. Each time you press the button, the track numbers and their playing order appear in succession.

To change the current program

Clear the program, and then follow all the steps again.

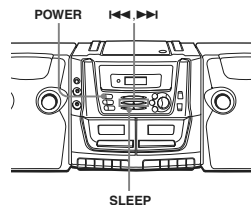
Tips

- You can play the same program again, since the program is saved until you open the CD compartment.
- You can record your own program. After you have created the program, insert a blank tape into deck 1 and press ● on deck 1 to start recording.

The Timer

Falling asleep to music

You can set the player to turn off automatically after 10, 20, 30, 60, 90, and 120 minutes, allowing you to fall asleep while listening to music.



- 1 Play the music source you want.
- 2 Hold down SLEEP until "60" flashes in the display.
- 3 Press ◀▶ or SLEEP repeatedly to select the minutes until the player goes off automatically. Each time you press ▶▶ or SLEEP, the indication changes as follows: "60" → "90" → "120" → "OFF" → "10" → "20" → "30" → "60"...

If you press ◀▶, the indication changes in reverse order.



If 4 seconds have passed after you pressed the button, the minutes in the display are entered. While the sleep timer is activated, "●" flashes in the display.



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

To check the time remaining until the player is turned off

Hold down SLEEP for about 2 seconds. The remaining time is displayed for 4 seconds.

To cancel the sleep timer

While the remaining time is flashing in the display, press SLEEP repeatedly until "OFF" is displayed.

Note

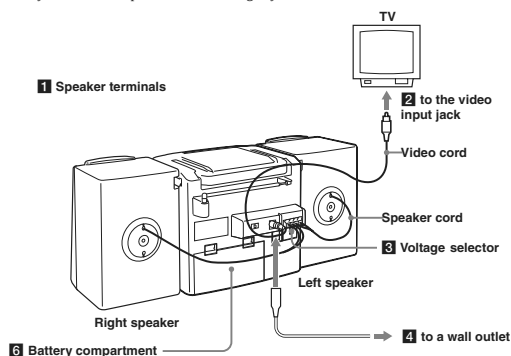
When you are playing a tape using this function: If the tape length of one side is longer than the set time, the player will not go off until the tape reaches the end.

The Timer

Setting Up

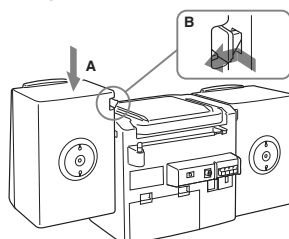
Hooking up the system

Make sure you turn off the power before making any connections.



1 Hooking up the speakers

- 1 Align the grooves and slide the speaker box down until it snaps into place A.



- 2 Connect the black wires to ● and the red wires to + terminals; the right speaker wires to the R and the left speaker wires to the L terminals.



Tips

- To detach the speakers, unlock speaker (see B on the diagram) and slide the speaker box all the way up and away from the player.
- Connect the speakers for this unit only to the speaker terminals of this unit. If you connect any other speakers or equipment, malfunction may occur.

2 Connecting the TV

To use the VIDEO CD, connect the TV equipped with the video input jack in the following way:

- 1 Connect the supplied video cord to the VIDEO OUT jack of the player and the video input jack of the TV.
- 2 Turn on the TV and set the input mode selector on the TV to the proper position.

3 Adjusting the voltage

Set the voltage selector to your local power supply.

4 Connecting the AC power cord

Insert one end of the supplied AC power cord to the AC IN socket located on the rear of the player, and the other end to the wall outlet.

Changing the MW tuning interval

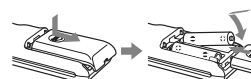
The MW tuning interval is preset to 9 kHz at the factory. Perform the following to change the setting to 10 kHz step.

- 1 Press FUNCTION repeatedly to select the tuner function.
- 2 While holding down BAND on the player, press and hold ■ on the player for about 2 seconds to change the setting to 10 kHz step.

To set the tuning interval back to 9 kHz step, follow the same procedure again.

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

5 Inserting batteries into the remote



Insert two R6 (size AA) batteries (not supplied).

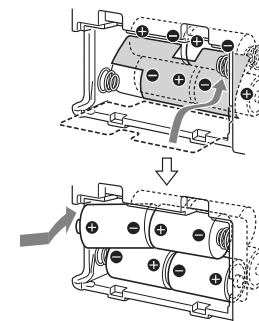
Replacing batteries

With normal use, the batteries should last for about six months. When the remote no longer operates the player, replace all the batteries with new ones.

6 Using the player on batteries

Insert eight R20 (size D) batteries (not supplied) into the battery compartment. Before inserting the outer four batteries, close the inner lid as illustrated below.

To use the player on batteries, disconnect the AC power cord from the player.



Replacing batteries

Replace the batteries when the OPR/BATT indicator dims or when the player stops operating. Replace all the batteries with new ones. Before you replace the batteries, be sure to take out the CD from the player.

Note

When you operate the player on batteries, you cannot turn on the player using the remote.

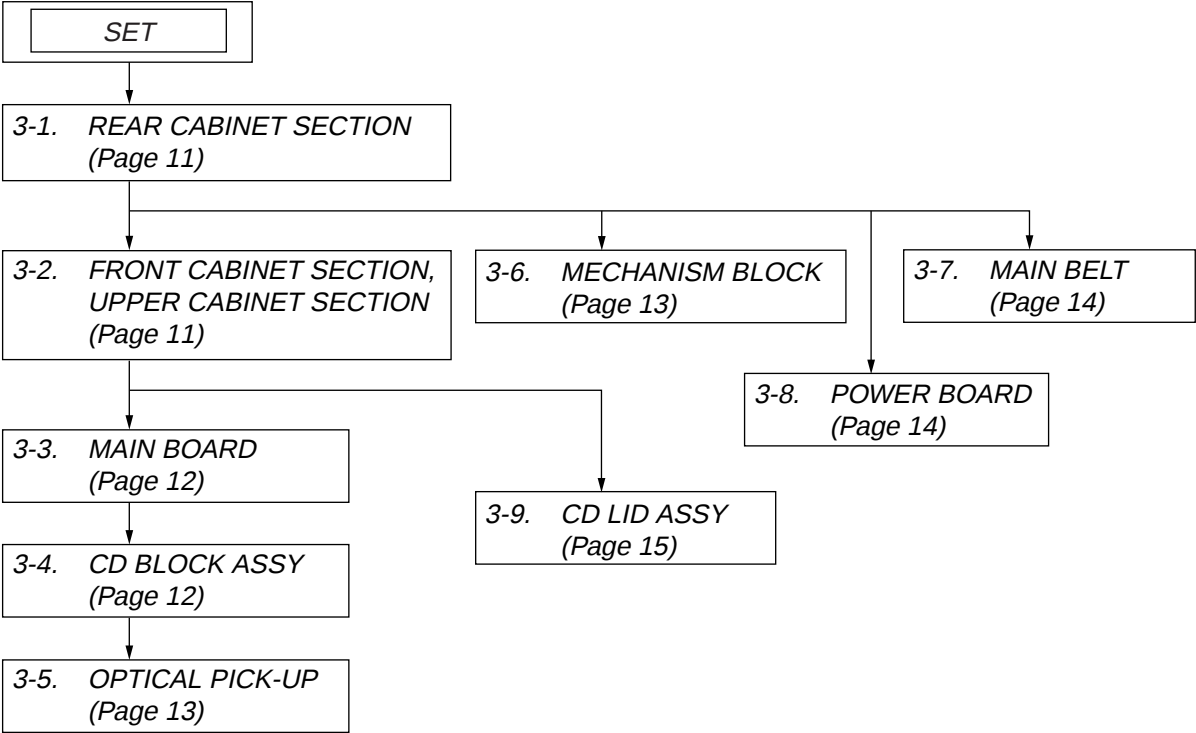
Setting Up

30GB

31GB

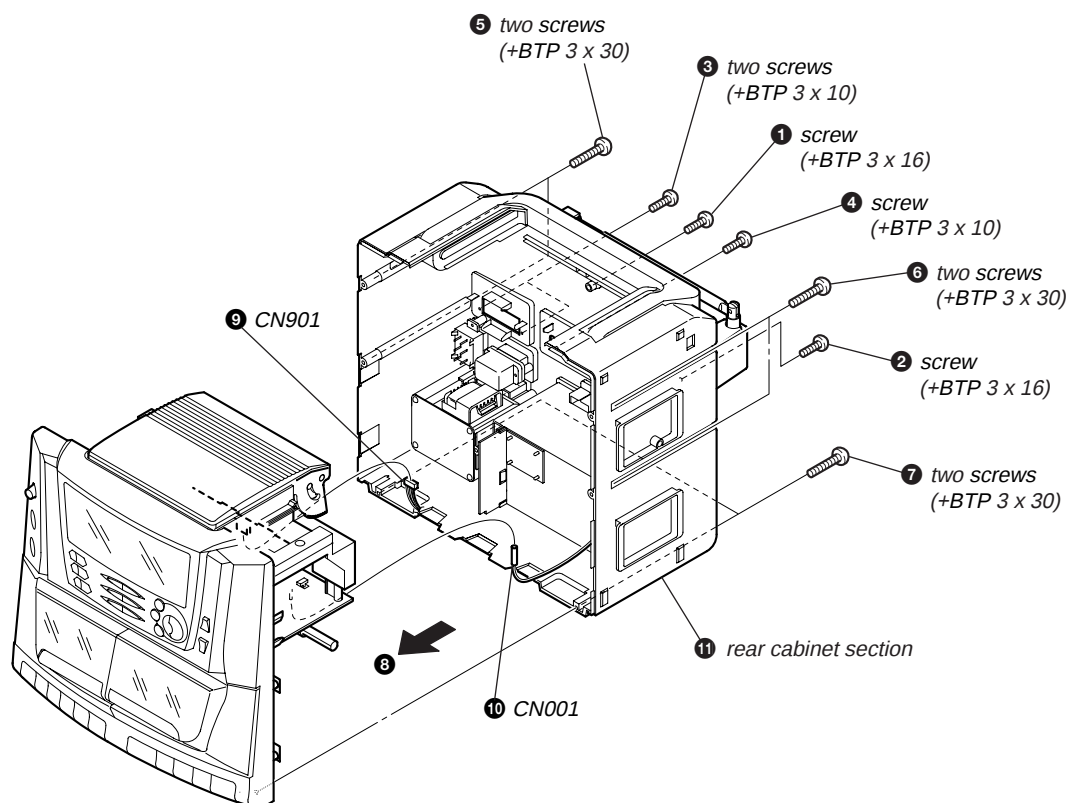
SECTION 3
DISASSEMBLY

• The equipment can be removed using the following procedure.

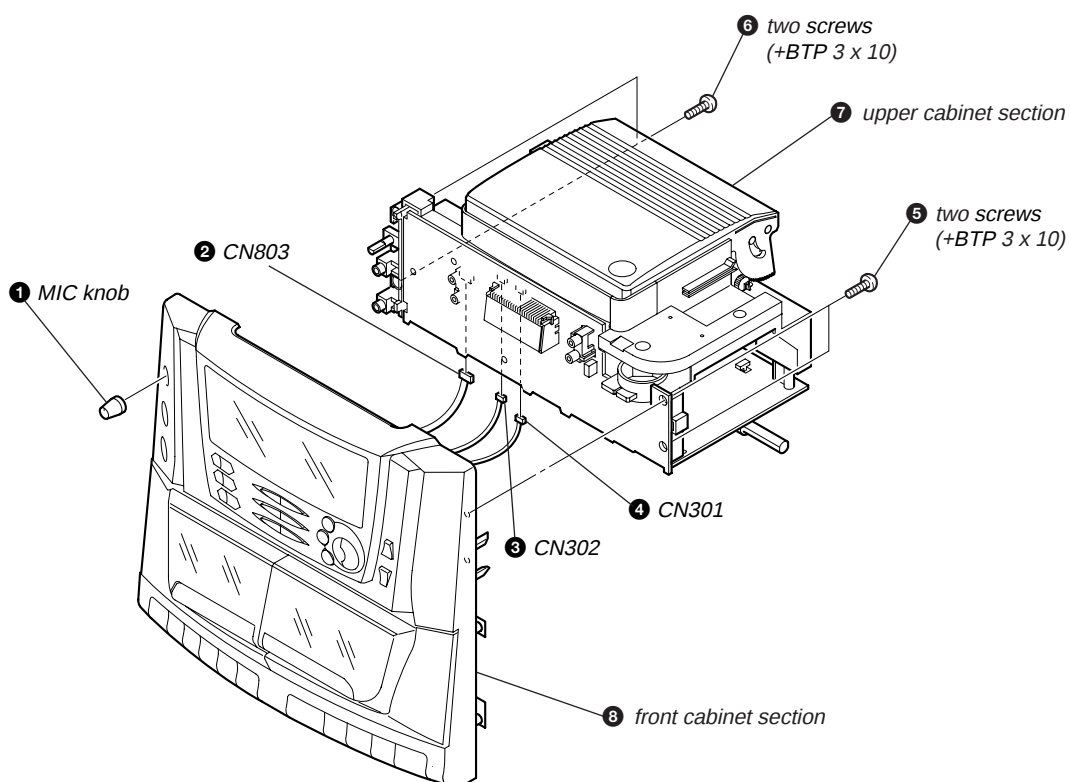


Note : Follow the disassembly procedure in the numerical order given.

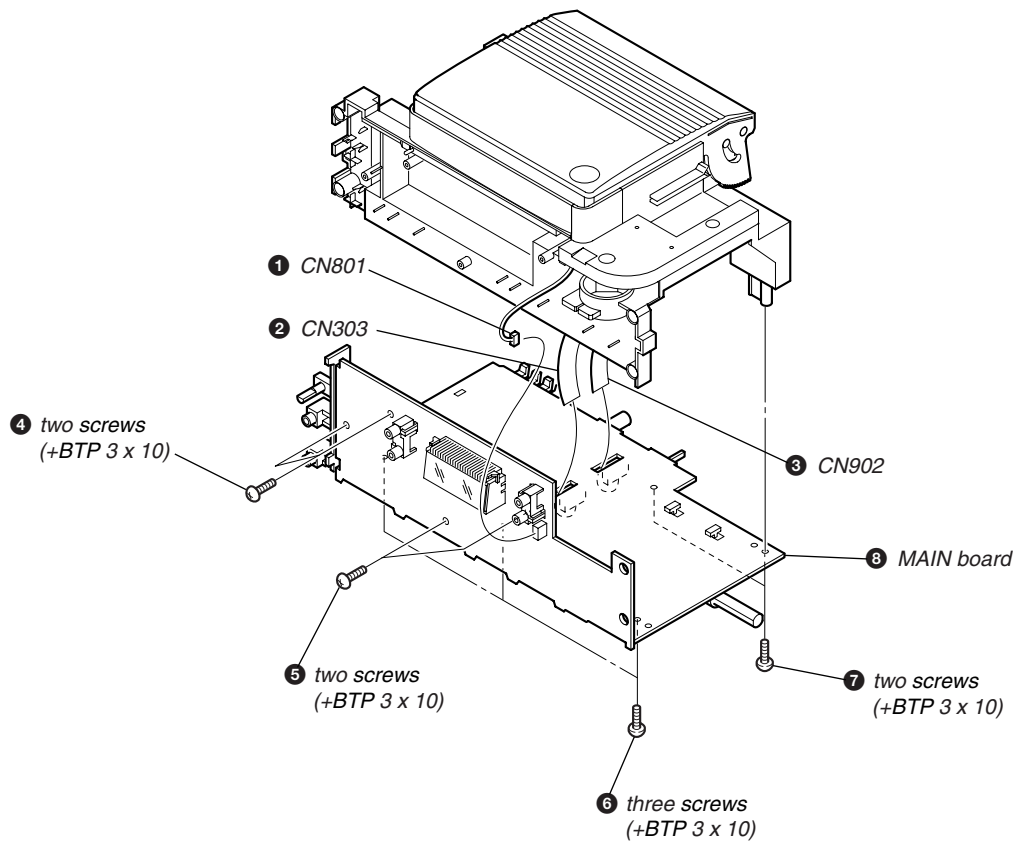
3-1. REAR CABINET SECTION



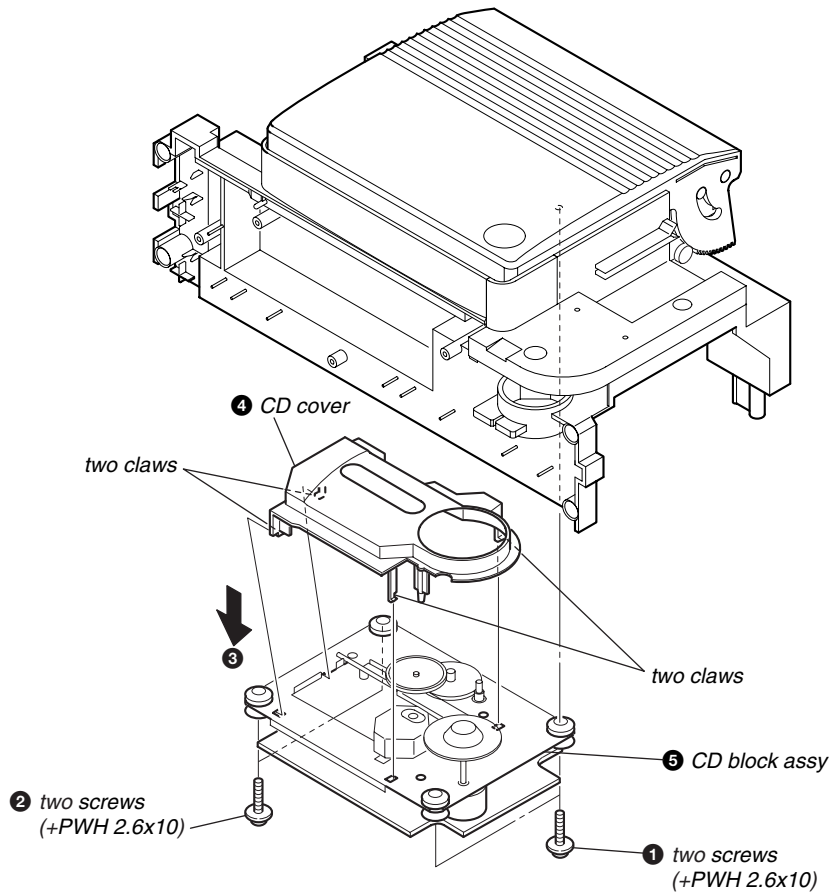
3-2. FRONT CABINET SECTION, UPPER CABINET SECTION



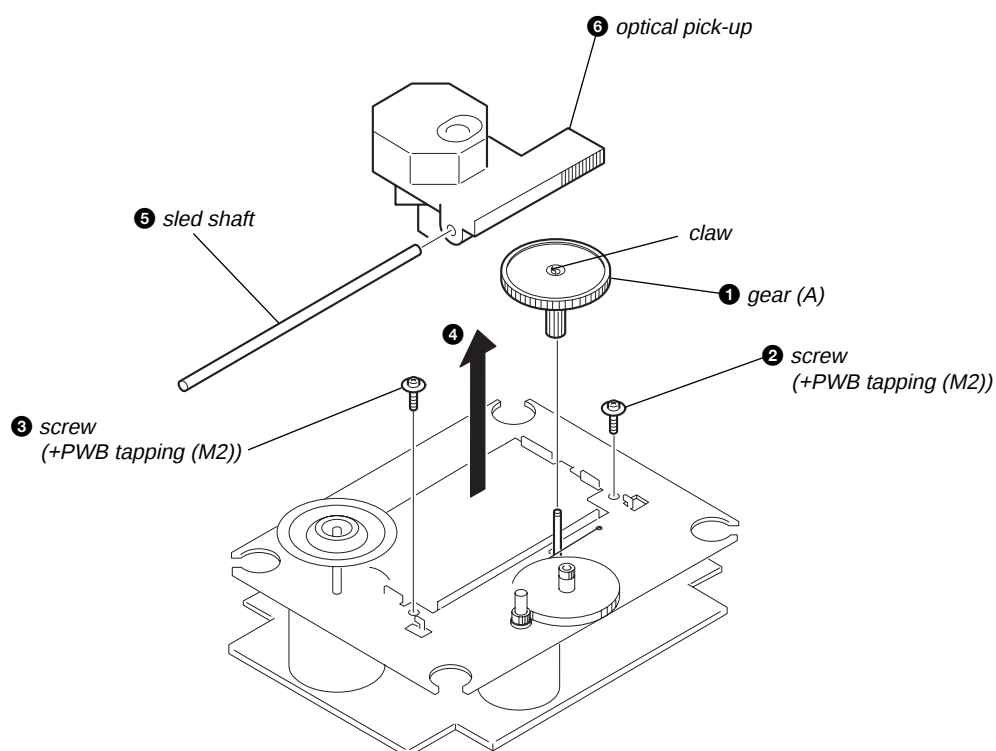
3-3. MAIN BOARD



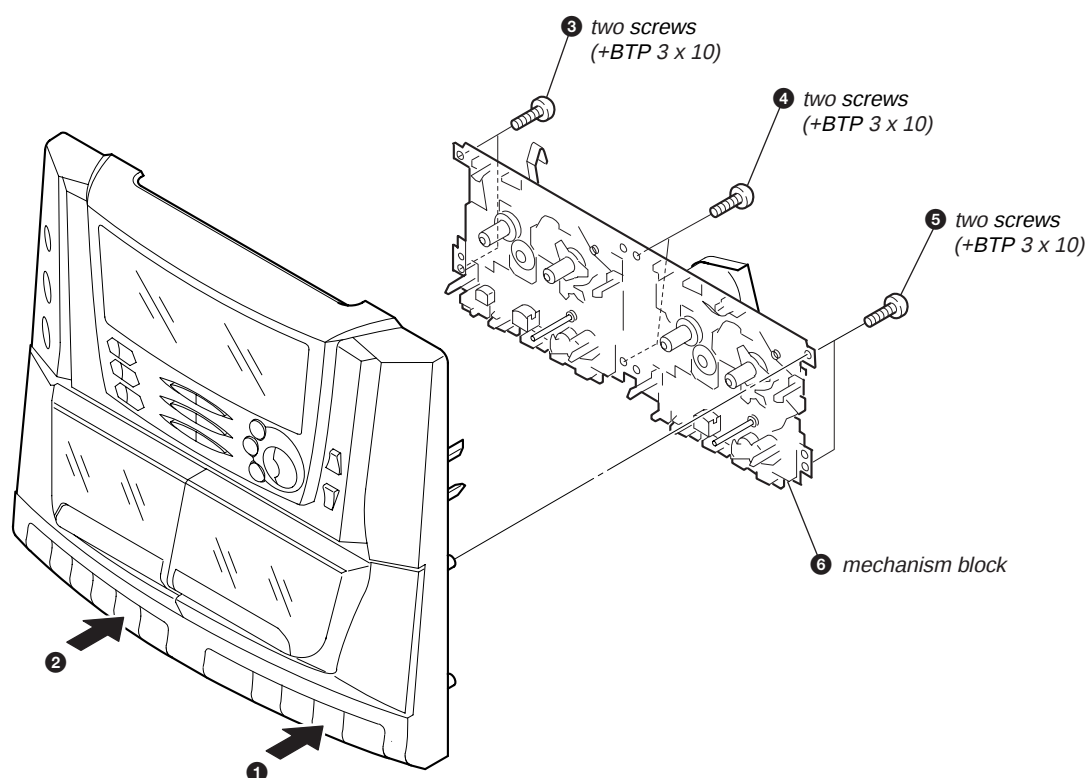
3-4. CD BLOCK ASSY



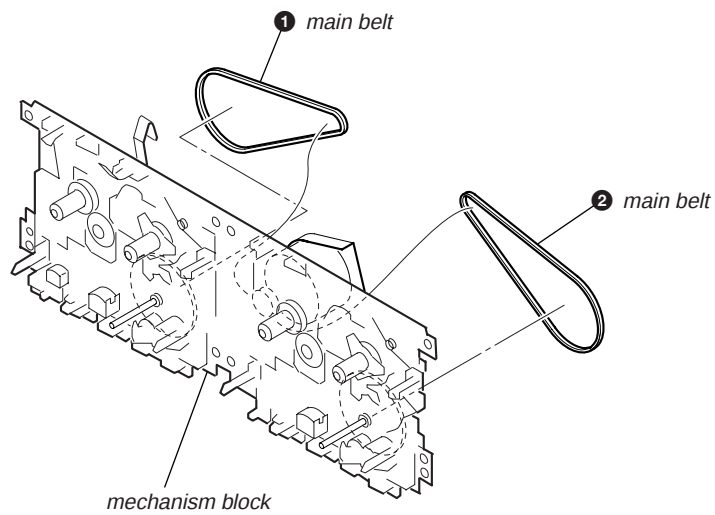
3-5. OPTICAL PICK-UP



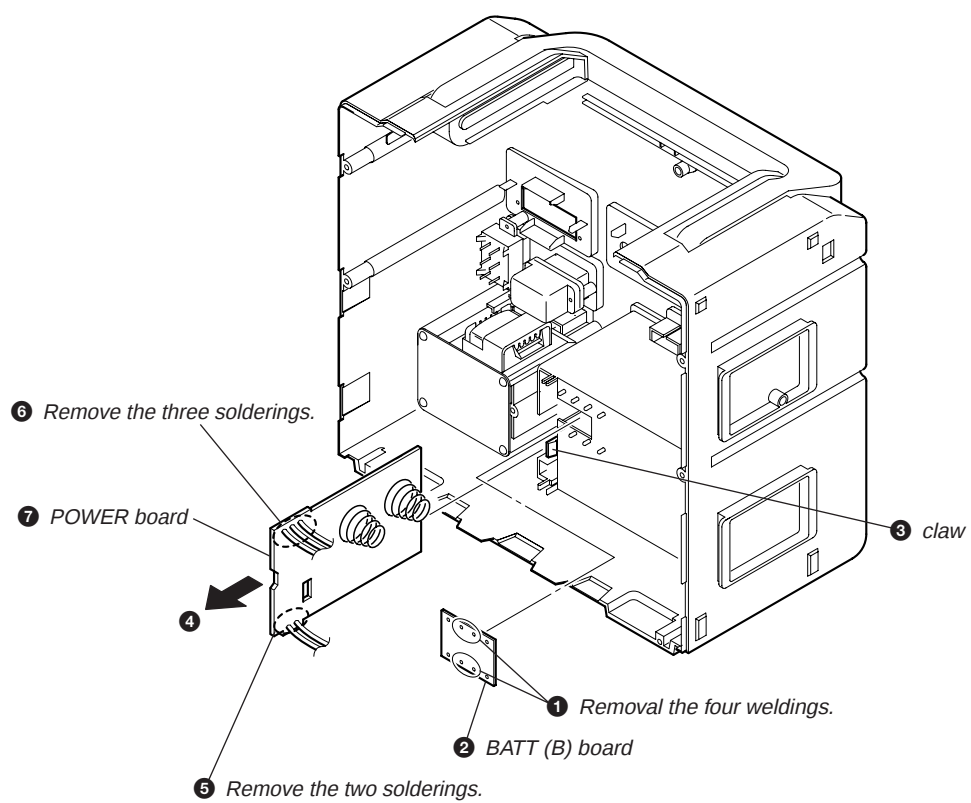
3-6. MECHANISM BLOCK



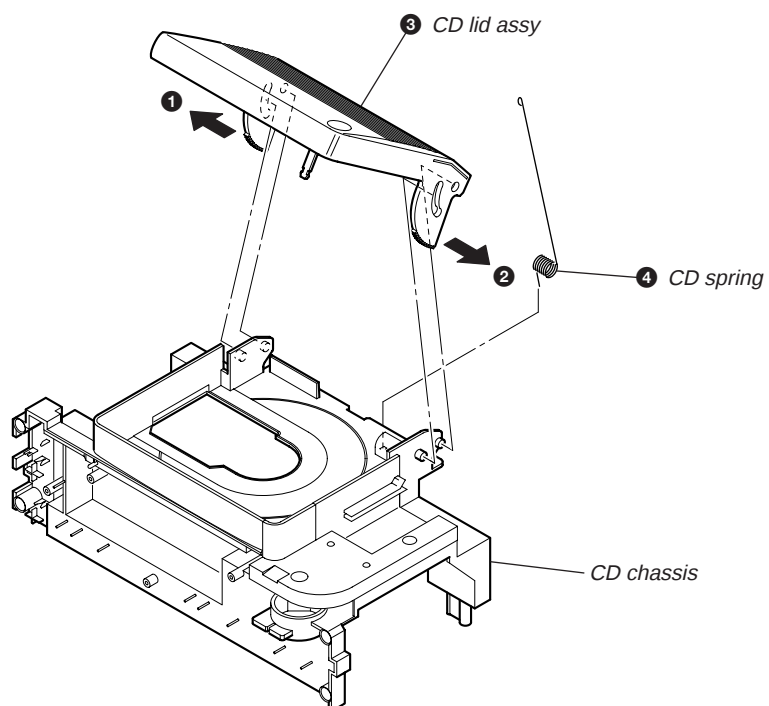
3-7. MAIN BELT



3-8. POWER BOARD



3-9. CD LID ASSY



SECTION 4

MECHANICAL ADJUSTMENTS

PRECAUTION

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

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

Torque Measurement

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

Tape Tension Measurement

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

SECTION 5 ELECTRICAL ADJUSTMENTS

TAPE SECTION	0 dB = 0.775 V
---------------------	-----------------------

• Standard Output Level

Output terminal	PHONES Jack (J351)
load impedance	8 Ω
output signal level	0.25 V (–10 dB)

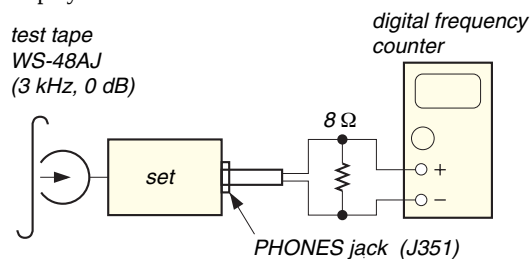
• Test Tape

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

Tape Speed Adjustment

Procedure:

Mode: playback



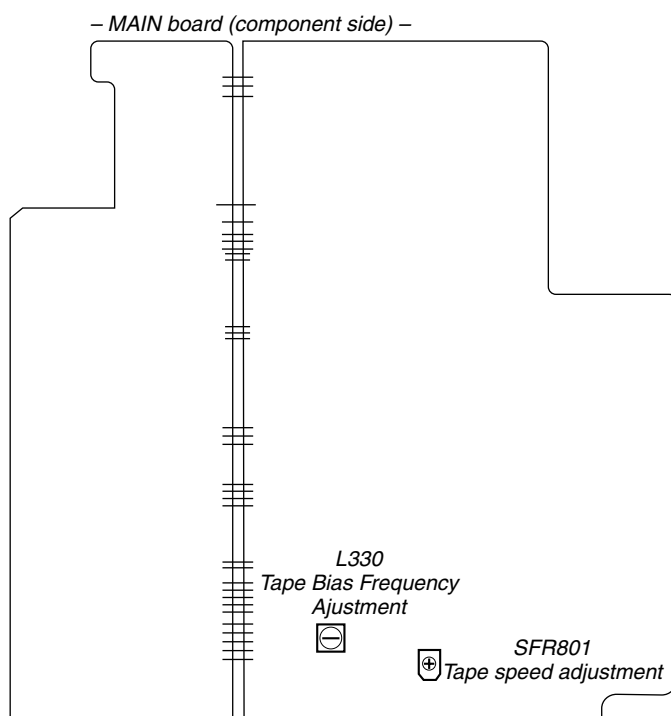
Adjust so that the value on the digital frequency counter is 3,000 Hz.

Specification Value:

Digital frequency counter
2,910 to 3,090 Hz

Adjust so that the frequency at the high speed dubbing are between 4,400 to 5,000 Hz.

Adjustment Location:

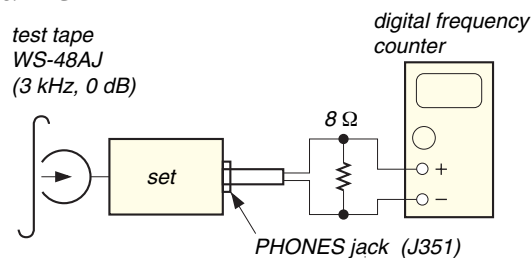


Tape Bias Frequency Adjustment

Setting:

FUNCTION button: TAPE

Mode: REC



TAPE BIAS FREQUENCY ADJUSTMENT

Adjust L330 so that frequency counter reading is 49 kHz $\pm$ 3 kHz.

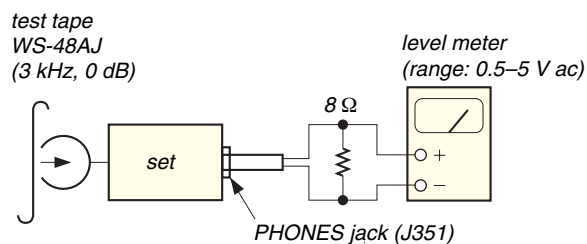
L330

49 kHz $\pm$ 3 kHz

Azimuth Adjustment

Procedure:

Mode: playback



Adjust head azimuth adjustment screw so that the output level is maximum.

Confirm that the difference between Lch and Rch is 2.5 dB or less.

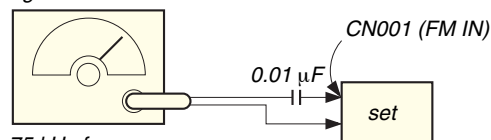
TUNER SECTION 0 dB = 1 μ V

• FM Section

Setting:

BAND button: FM

FM RF signal generator



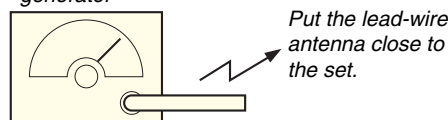
75 kHz frequency deviation by 1 kHz signal
output level : as low as possible

• AM Section (MW)

Setting:

BAND button: MW

AM RF signal generator



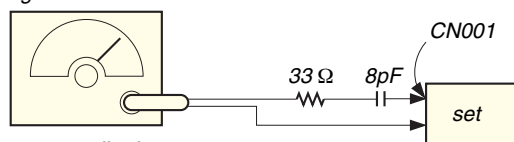
30% amplitude modulation by 400 Hz signal

• AM Section (SW1, SW2)

Setting:

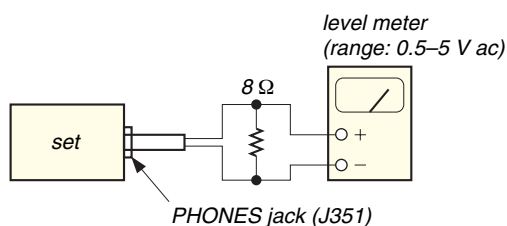
BAND button: SW1 or SW2

AM RF signal generator

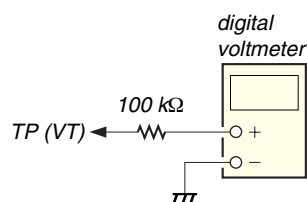


30% amplitude modulation by 400 Hz signal

• Connecting Level Meter (FM, MW, SW1 and SW2)



• Connecting Digital Voltmeter (FM, MW, SW1 and SW2)



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

FM VT ADJUSTMENT

Frequency Display	87.5 MHz
Reading on Digital voltmeter	1.75 ± 0.1 V
Adjustment Part	L006

FM TRACKING ADJUSTMENT

Adjust for a maximum reading on level meter.

L005
87.5 MHz

MW IF ADJUSTMENT

Adjust for a maximum reading on level meter.

L983
455 kHz

MW VT ADJUSTMENT

Frequency Display	531 kHz
Reading on Digital voltmeter	1.5 ± 0.1 V
Adjustment Part	L998

MW TRACKING ADJUSTMENT

Adjust for a maximum reading on level meter.

L003	TC001
621 kHz	1,404 kHz

SW1 VT ADJUSTMENT

Frequency Display	3.2 MHz
Reading on Digital voltmeter	1.9 ± 0.05 V
Adjustment Part	L997

SW1 TRACKING ADJUSTMENT

Adjust for a maximum reading on level meter.

L61	TC61
3.2 MHz	7.3 MHz

SW2 VT ADJUSTMENT

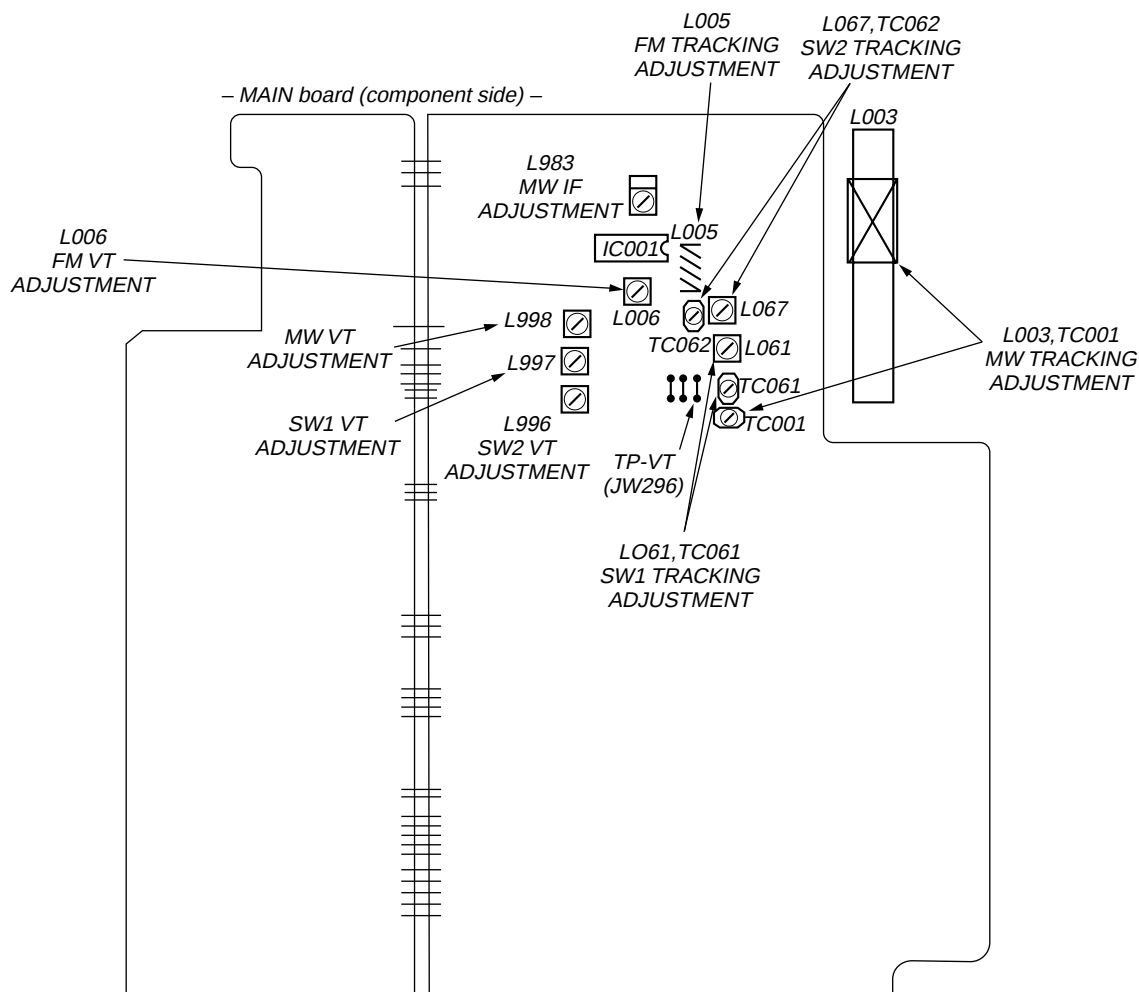
Frequency Display	9.5 MHz
Reading on Digital voltmeter	2.2 ± 0.1 V
Adjustment Part	L996

SW2 TRACKING ADJUSTMENT

Adjust for a maximum reading on level meter.

L67	TC62
9.5 MHz	21.85 MHz

Adjustment Location: See page 19.

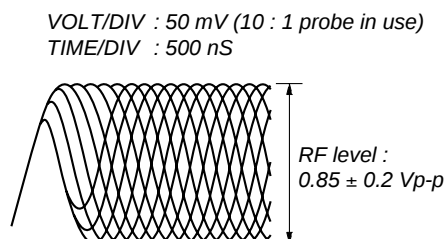
Adjustment Location:**CD SECTION**

CD section adjustments are done automatically in this set.
In case of operation check, confirm that focus bias.

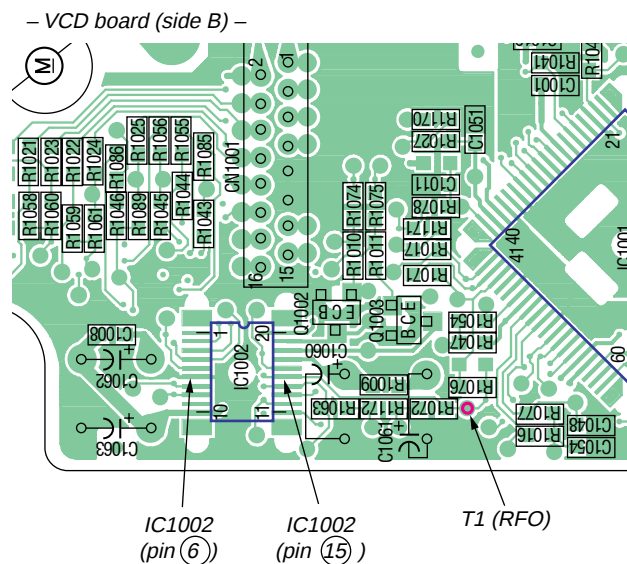
FOCUS BIAS CHECK

1. Connect the oscilloscope between IC1002 pin ⑮ and pin ⑥ (or TP1 (RFO) and ground).
2. Insert the disc (YEDS-18). (Part No. : 3-702-101-01)
3. Press the ►|| (CD) button.
4. Confirm that the 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.

- RF signal reference waveform (eye pattern)



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

Test Point:

SECTION 6

DIAGRAMS

6-1. IC PIN DESCRIPTIONS

• IC1006 ES3890FF (VCD) (VCD BOARD (2/3))

Pin No.	Pin Name	I/O	Pin Description
1	VSSA	—	Ground
2	RSET	O	Resistor set for internal current source
3	VREF	O	Reference voltage
4	COMP	O	Compensation capacitance for LPF
5	VCM	—	Power supply (5V)
6	MIC2	—	Not used
7	MIC1	—	Not used
8	VDDA	—	Power supply (5V)
9	VSSA	—	Ground
10	AUX05	O	CD acknowledge
11	AUX06	I	CD strobe
12	AUX07	O	CD serial data
13	AUX30	—	Pulled up to 3.3V
14	AUX31	I	GFS form CD DSP
15	AUX32	—	Pulled up to 3.3V
16	LWR#	O	Write enable for bus interface
17	LOE#	O	Output enable for EPROM
18	CS0#	O	Chip select for bus interface
19	CS1#	—	Not used
20	CS3#	O	Chip select for EPROM
21	LD0	I/O	Data bus for EPROM/bus interface
22	LD1	I/O	Data bus for EPROM
23	LD2	I/O	Data bus for EPROM
24	LD3	I/O	Data bus for EPROM/bus interface
25	LD4	I/O	Data bus for EPROM/bus interface
26	LD5	I/O	Data bus for EPROM/bus interface
27	LD6	I/O	Data bus for EPROM
28	LD7	I/O	Data bus for EPROM/bus interface
29	VCC	—	Power supply (2.6V)
30	XIN	I	Crystal oscillator (27MHz)
31	XOUT	O	Crystal oscillator (27MHz)
32	VSS	—	Ground
33	LA0	O	Address bus for EPROM
34	LA1	O	Address bus for EPROM
35	LA2	O	Address bus for EPROM
36	LA3	O	Address bus for EPROM
37	LA4	O	Address bus for EPROM
38	LA5	O	Address bus for EPROM
39	LA6	O	Address bus for EPROM
40	LA7	O	Address bus for EPROM
41	VSS	—	Ground
42	VCC	—	Power supply (2.6V)
43	LA8	O	Address bus for EPROM
44	LA9	O	Address bus for EPROM
45	LA10	O	Address bus for EPROM
46	LA11	O	Address bus for EPROM
47	LA12	O	Address bus for EPROM
48	LA13	O	Address bus for EPROM
49	LA14	O	Address bus for EPROM
50	LA15	O	Address bus for EPROM
51	LA16	O	Address bus for EPROM

Pin No.	Pin Name	I/O	Pin Description
52	LA17	O	Address bus for EPROM
53	LA18	O	Address bus for EPROM
54	LA19	—	Not used
55	TDMFS	I	Frame signal from CD DSP
56	TDMDR	I	Serial data from CD DSP
57	TDMCLK	I	Serial clock from CD DSP
58	TBCK	O	Bit clock for audio DAC
59	SEL_PLL1/TWS	O	Audio strobe for audio DAC (TWS)
60	SEL_PLL0/TSD	O	Serial data for audio DAC (TSD)
61	MCLK	O	Serial clock for audio DAC
62	CAS#	O	Column address strobe for DRAM
63	DRAS1#	—	Not used
64	VPP	—	Power supply (3.3V)
65	VSS	—	Ground
66	VCC	—	Power supply (2.6V)
67	DRAS0#	O	Row address strobe for DRAM
68	DWE#	O	Write enable for DRAM
69	DOE#/MA9	O	Address bus for DRAM (MA9)
70	MA0	O	Address bus for DRAM
71	MA1	O	Address bus for DRAM
72	MA2	O	Address bus for DRAM
73	MA3	O	Address bus for DRAM
74	MA4	O	Address bus for DRAM
75	MA5	O	Address bus for DRAM
76	MA6	O	Address bus for DRAM
77	MA7	O	Address bus for DRAM
78	MA8	O	Address bus for DRAM
79	DBUS0	I/O	Data bus for DRAM
80	DBUS1	I/O	Data bus for DRAM
81	DBUS2	I/O	Data bus for DRAM
82	DBUS3	I/O	Data bus for DRAM
83	DBUS4	I/O	Data bus for DRAM
84	DBUS5	I/O	Data bus for DRAM
85	DBUS6	I/O	Data bus for DRAM
86	DBUS7	I/O	Data bus for DRAM
87	DBUS8	I/O	Data bus for DRAM
88	DBUS9	I/O	Data bus for DRAM
89	DBUS10	I/O	Data bus for DRAM
90	DBUS11	I/O	Data bus for DRAM
91	DBUS12	I/O	Data bus for DRAM
92	DBUS13	I/O	Data bus for DRAM
93	DBUS14	I/O	Data bus for DRAM
94	DBUS15	I/O	Data bus for DRAM
95	VCC	—	Power supply (2.6V)
96	RESET#	I	System reset
97	VSS	—	Ground
98	VSS_P	—	Ground
99	VCC_P	—	Power supply (2.6V)
100	AUX20	O	Clock for SBSO
101	AUX21	I	SQSO data from CD DSP
102	AUX22	O	SQCK clock for CD DSP
103	AUX23	—	Pulled down to ground
104	AUX24	I	C2PO from CD DSP

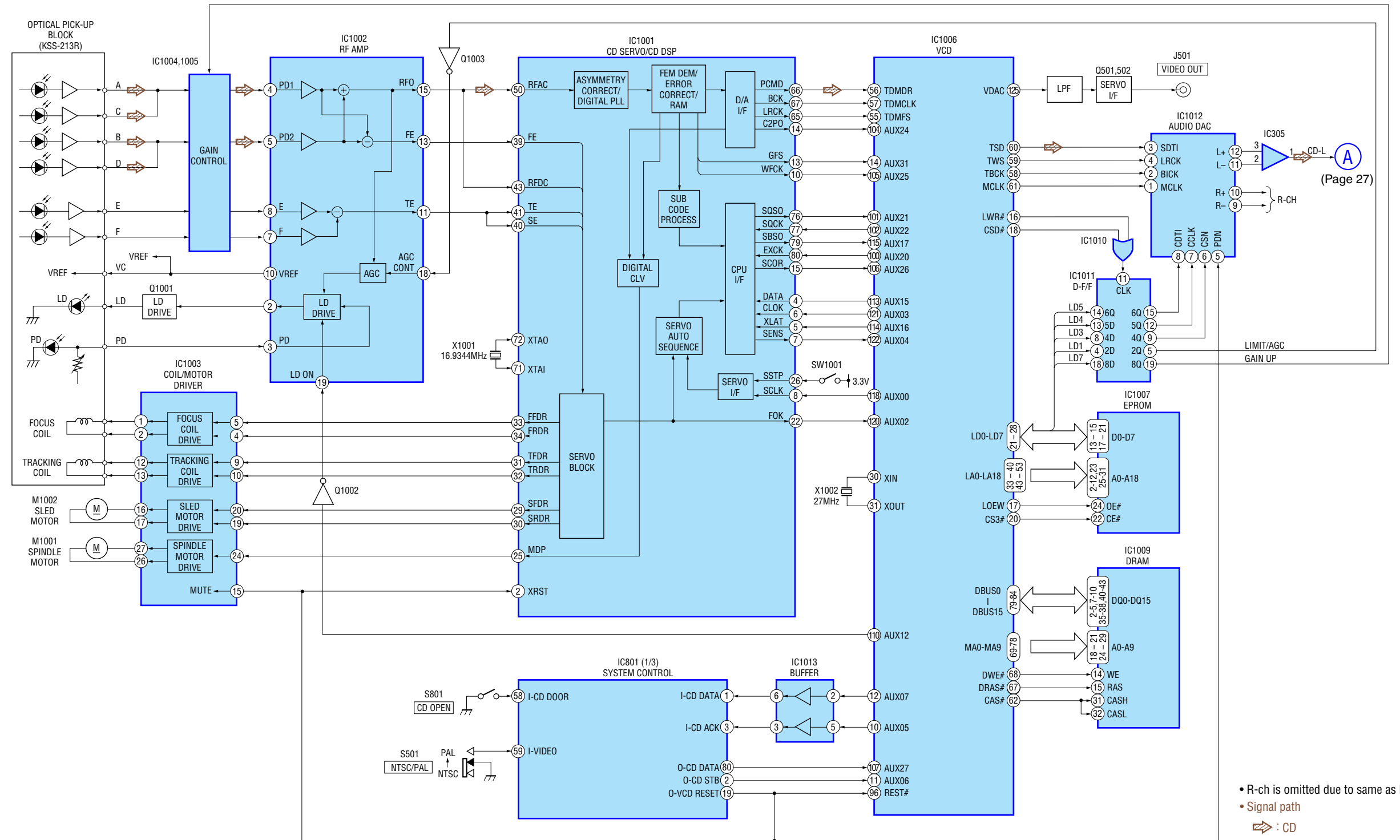
Pin No.	Pin Name	I/O	Pin Description
105	AUX25	I	WFCK from CD DSP
106	AUX26	I	SCOR from CD DSP
107	AUX27	I	Serial data from microprocessor
108	AUX10	—	Pulled down to ground
109	AUX11	—	Pulled down to ground
110	AUX12	O	Laser diode control
111	AUX13	—	Pulled up to 3.3V
112	AUX14	—	Pulled up to 3.3V
113	AUX15	O	Serial data for CD DSP
114	AUX16	O	Latch for CD DSP
115	AUX17	I	SBSO data from CD DSP
116	VCC	—	Power supply (2.6V)
117	VSS	—	Ground
118	AUX00	O	Clock for CD servo interface
119	AUX01	—	Not used
120	AUX02	I	Focus OK from CD DSP
121	AUX03	O	Serial clock for CD DSP
122	AUX04	I	Sens from CD DSP
123	VSSV	—	Ground
124	VSSV	—	Ground
125	VDAC	O	Video signal
126	YDAC	—	Not used
127	VCCV	—	Power supply (2.6V)
128	VCCV	—	Power supply (2.6V)

• IC801 LC877140A-52S8-E (SYSTEM CONTROL) (MAIN BOARD (4/4))

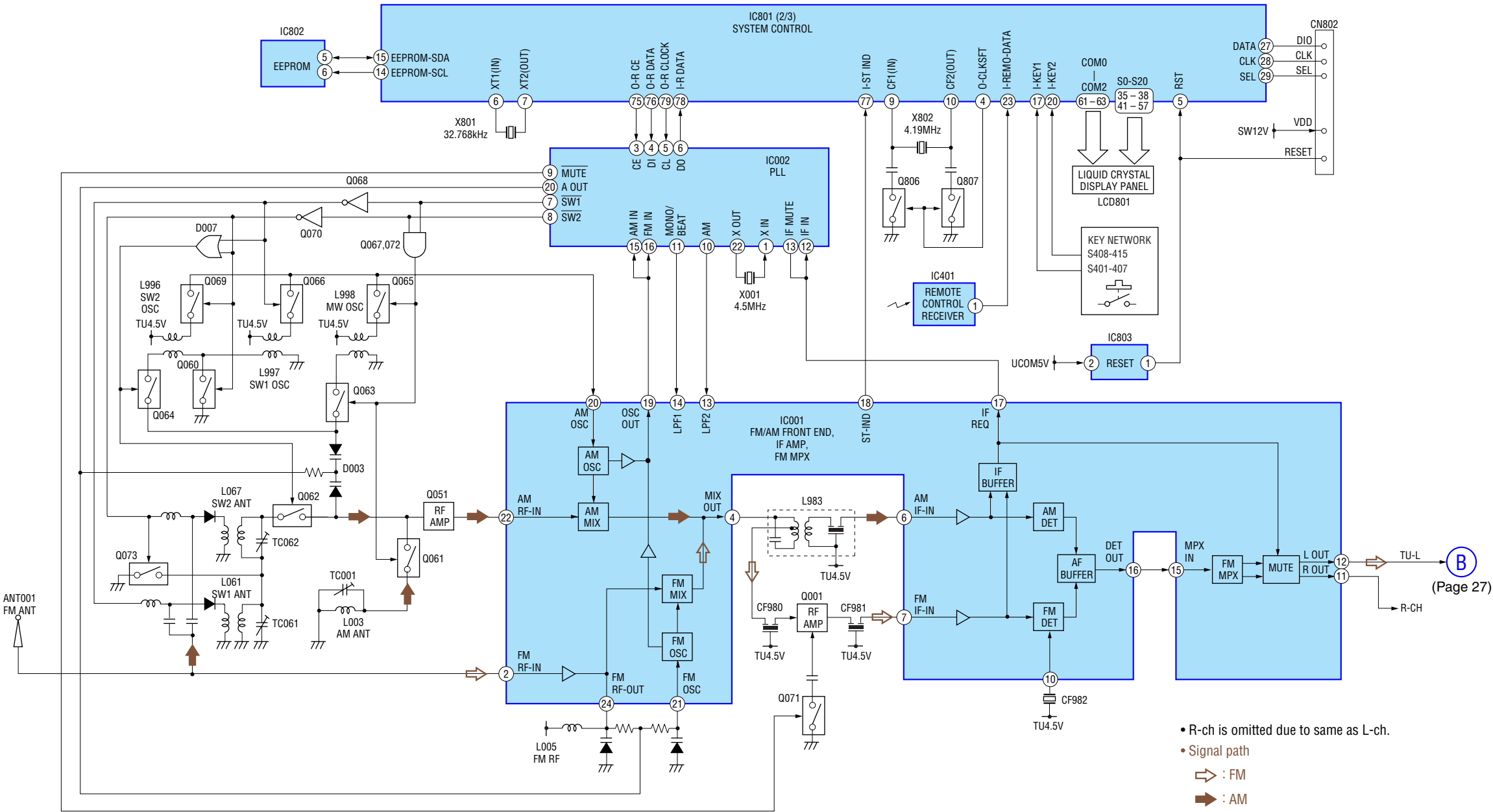
Pin No.	Pin Name	I/O	Pin Description
1	CD DATA	I	Serial data from CD
2	CD STB	O	Strobe for CD
3	CD ACK	I	Acknowledgement from CD
4	CLKSFT	O	Clock shift for oscillator
5	RST	I	Reset
6	XT1 (IN)	I	Crystal Oscillator (32.768kHz)
7	XT2 (OUT)	O	Crystal Oscillator (32.768kHz)
8	VSS1	—	Ground
9	CF1 (IN)	I	Ceramic filter Oscillator (4.19MHz)
10	CF2 (OUT)	O	Ceramic filter Oscillator (4.19MHz)
11	VDD1	—	Power supply (5V)
12	LEVEL-CHK	I	Voltage level detection
13	MOTOR	I	Motor mode detection
14	EEPROM-SCL	I	Serial clock for EEPROM
15	EEPROM-SDA	I/O	Serial data for EEPROM
16	N.C.	—	Not used
17	KEY	I	Key-in detection
18	N.C.	—	Not used
19	VCD RESET	O	Reset for VCD
20	KEY2	I	Key-in detection
21	SCONT	O	Audio selection control
22	AC/DC	I	AC/DC detection
23	REMO-DATA	I	Remote control data
24	BEAT	O	Beat signal for erase head
25	H.DUBB	O	High speed dubbing control
26	MIC IN	I	Microphone jack detection
27	N.C./DATA	I/O	Not used
28	N.C./CLK	O	Not used
29	MODE	I	Mode detection
30	N.C./SELECT	I	Not used
31	N.C.	—	Not used
32	N.C.	—	Not used
33	VIDEO MUTE	—	Not used
34	N.C.	—	Not used
35	S0	O	Segment for LCD
36	S1	O	Segment for LCD
37	S2	O	Segment for LCD
38	S3	O	Segment for LCD
39	VDD2	—	Power supply (5V)
40	VSS2	—	Ground
41	S4	O	Segment for LCD
42	S5	O	Segment for LCD
43	S6	O	Segment for LCD
44	S7	O	Segment for LCD
45	S8	O	Segment for LCD
46	S9	O	Segment for LCD
47	S10	O	Segment for LCD
48	S11	O	Segment for LCD
49	S12	O	Segment for LCD
50	S13	O	Segment for LCD
51	S14	O	Segment for LCD
52	S15	O	Segment for LCD

Pin No.	Pin Name	I/O	Pin Description
53	S16	O	Segment for LCD
54	S17	O	Segment for LCD
55	S18	O	Segment for LCD
56	S19	O	Segment for LCD
57	S20	O	Segment for LCD
58	CD DOOR	I	CD door open
59	VIDEO1	I	NTSC/PAL control
60	N.C.	—	Not used
61	COM0	O	Common for LCD
62	COM1	O	Common for LCD
63	COM2	O	Common for LCD
64	N.C.	—	Not used
65	N.C.	—	Not used
66	VSS3	—	Ground
67	VDD3	—	Power supply (5V)
68	N.C.	—	Not used
69	LED TBASS	O	LED control for T-BASS
70	LED H.DUBB	O	LED control for high speed dubbing
71	CDON	O	Power control for CD
72	TUON	O	Power control for tuner
73	PCONT	O	Main power control
74	MUTE	O	Audio mute control
75	R CE	O	Chip enable for radio PLL
76	R DATA	O	Serial data for radio PLL
77	ST IND	I	Turner stereo indication
78	R DATA	I	Serial data from radio PLL
79	R CLOCK	O	Serial clock for radio PLL
80	CD DATA	O	Serial data for CD

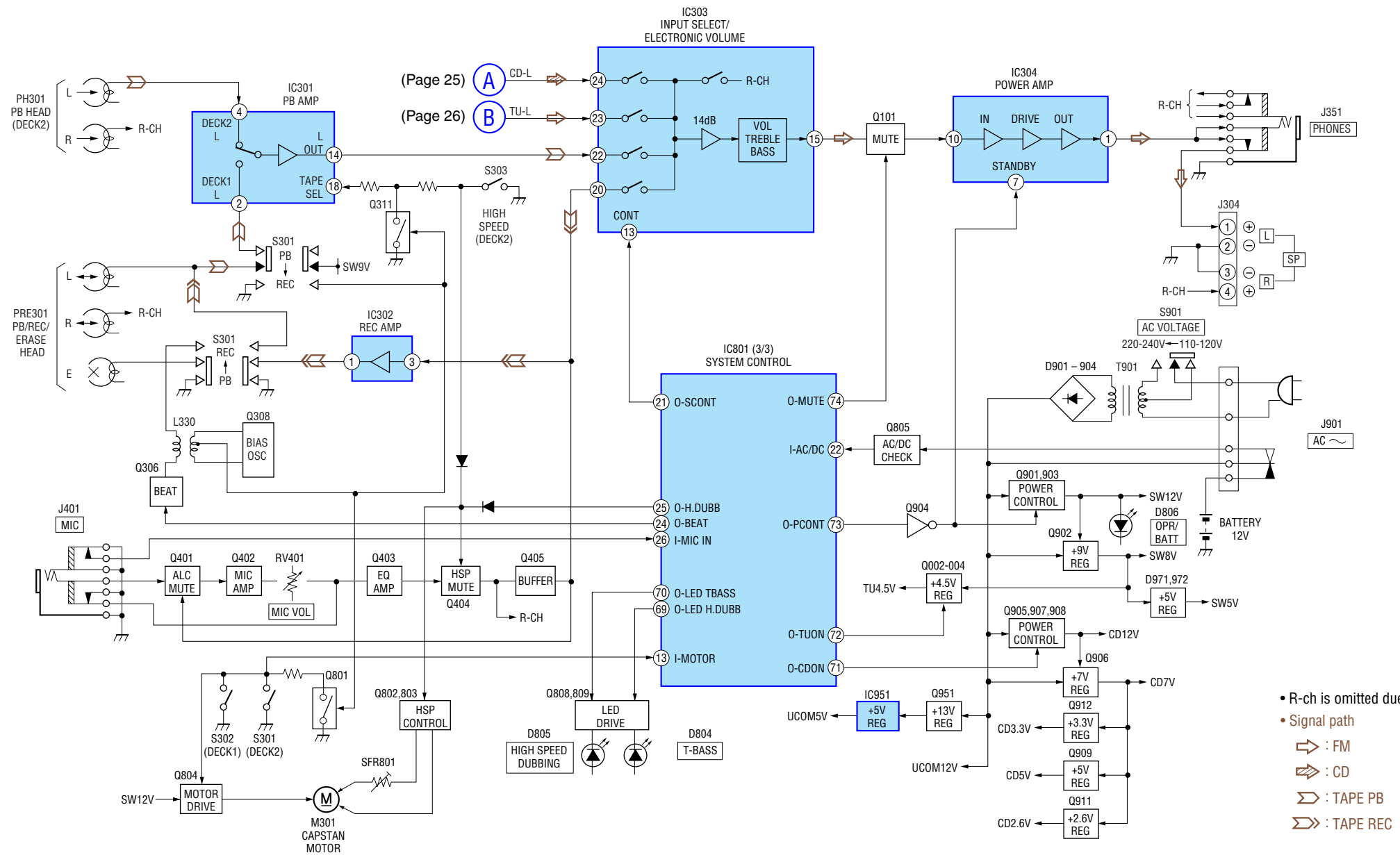
6-2. BLOCK DIAGRAM — VCD SECTION —



6-3. BLOCK DIAGRAM — TUNER SECTION —



6-4. BLOCK DIAGRAM — MAIN SECTION —



6-5. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

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

For schematic diagrams.
Note:

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4} \text{ W}$ or less unless otherwise specified.
- $\triangle$: internal component.
- $\square$: panel designation.

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

- — : B+ Line.
- --- : B- Line.
- □ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- VCD mechanism section
no mark : CD PLAY
- Main (1/4), (2/4), (3/4) and (4/4) sections
no mark : FM
() : MW/SW/TAPE REC
< > : CD PLAY
* : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 M Ω).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with an oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 : CD PLAY
 : FM
 : MW/SW
 : PB
 : REC

For printed wiring boards.
Note:

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

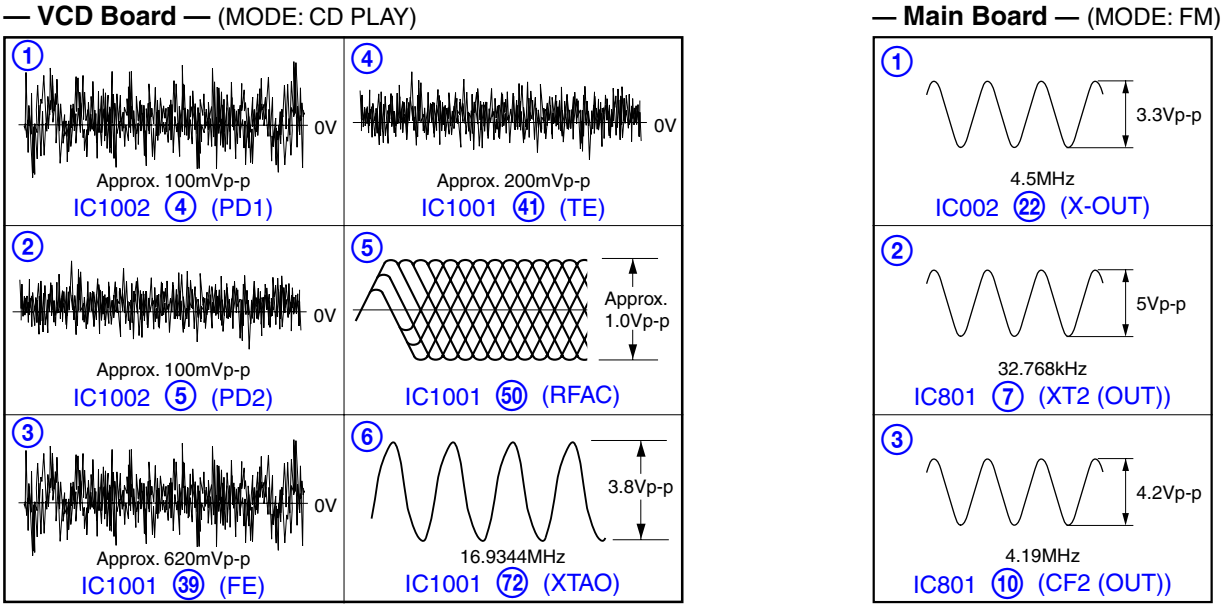
Caution:
Pattern face side: Parts on the pattern face side seen from the (Side B) pattern face are indicated.
Parts face side: Parts on the parts face side seen from the (Side A) parts face are indicated.

These are omitted

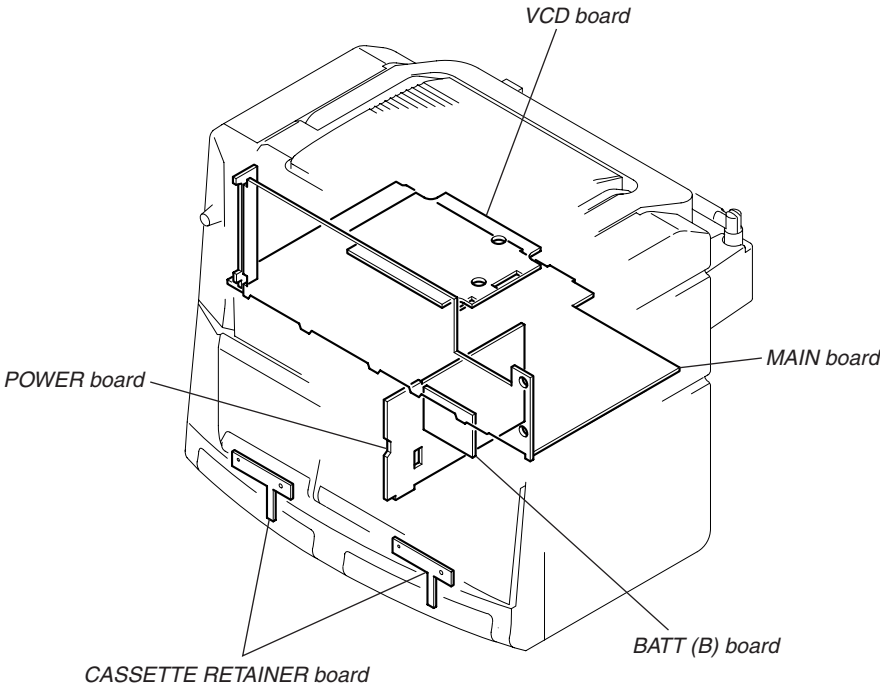
These are omitted

These are omitted

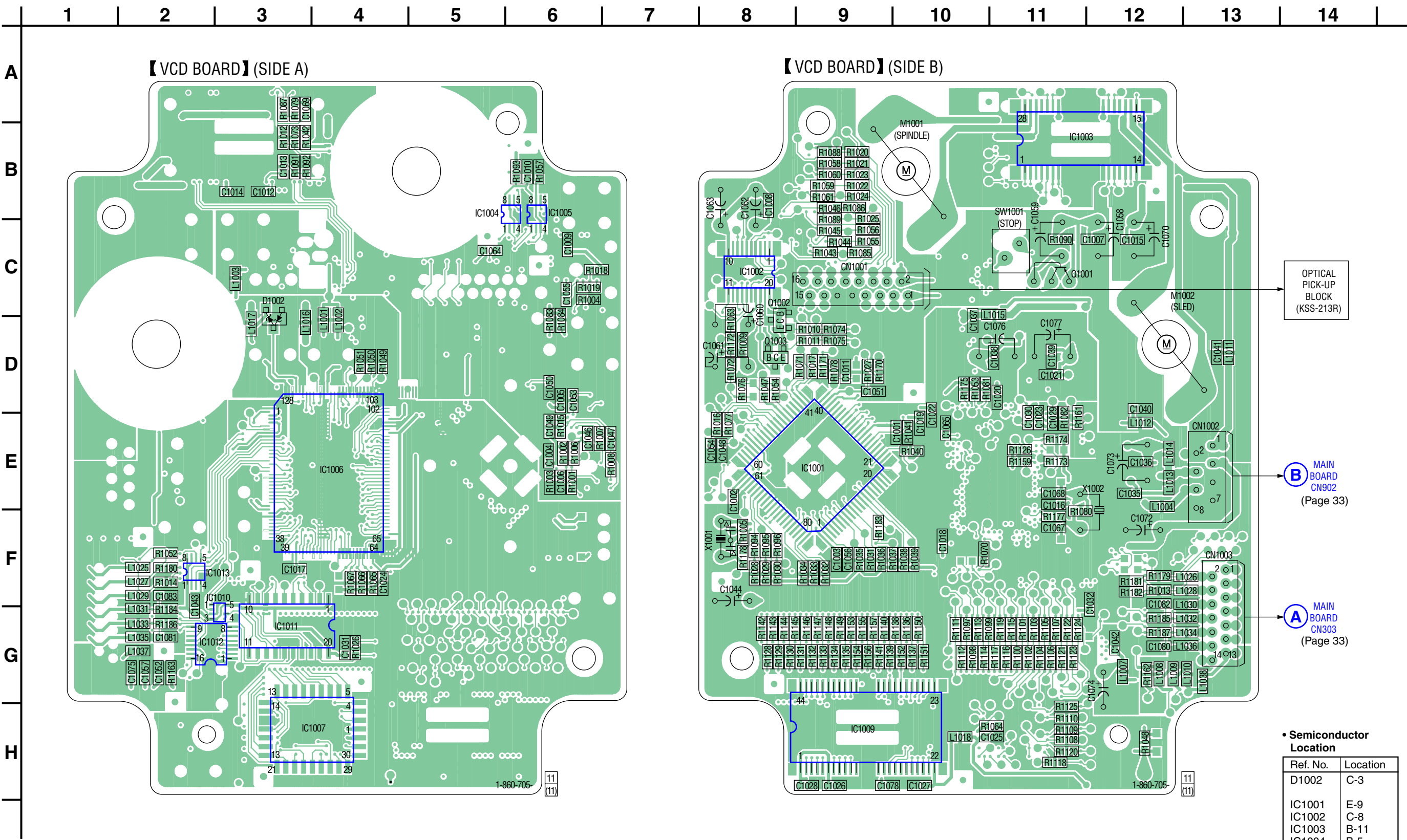
6-6. WAVEFORMS



6-7. CIRCUIT BOARDS LOCATION



6-8. PRINTED WIRING BOARD — VCD SECTION — • Refer to page 28 for Circuit Boards Location. : Uses unleaded solder.



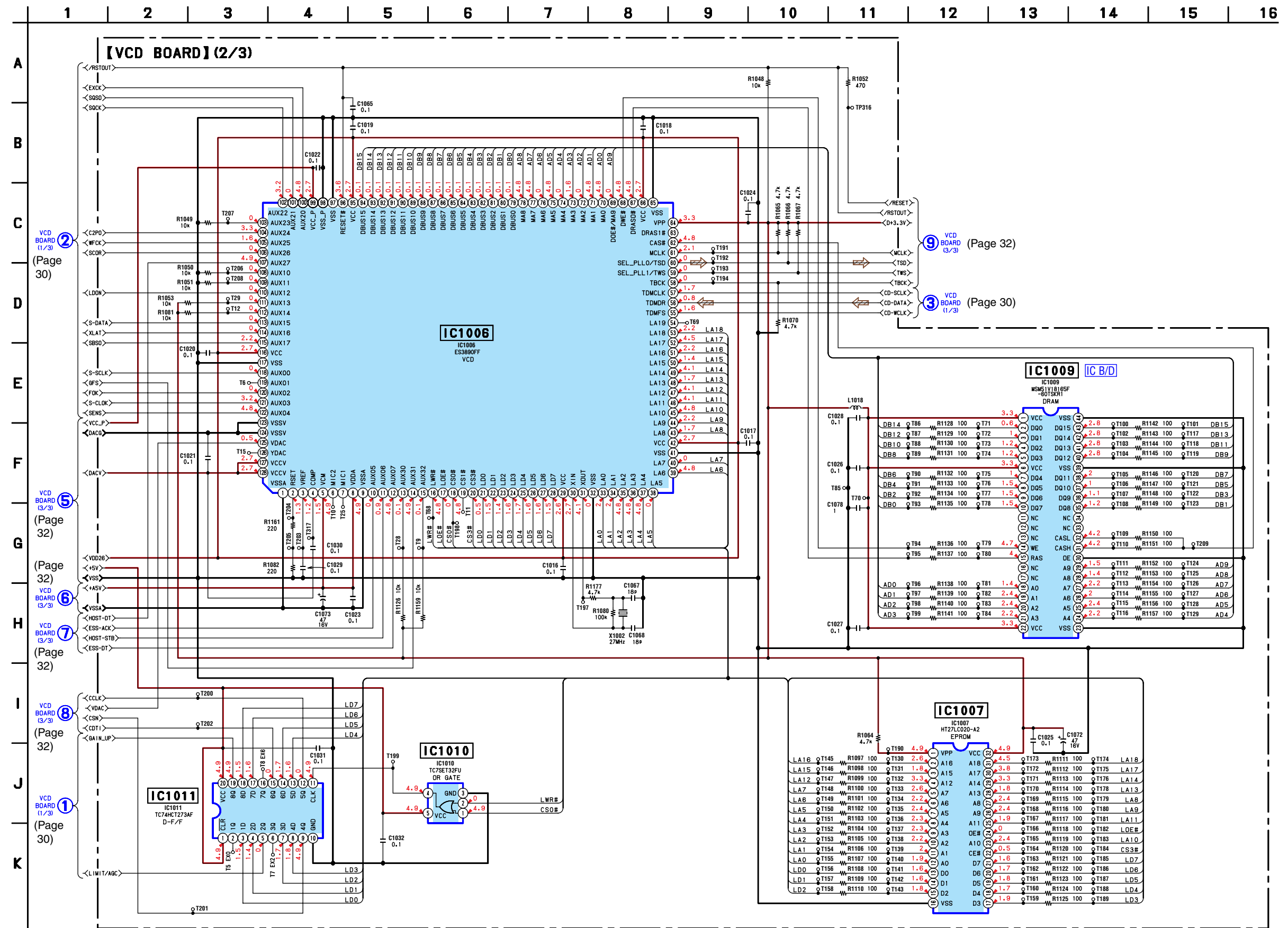
• Semiconductor Location

Ref. No.	Location
D1002	C-3
IC1001	E-9
IC1002	C-8
IC1003	B-11
IC1004	B-5
IC1005	B-6
IC1006	E-4
IC1007	H-4
IC1009	H-9
IC1010	F-3
IC1011	G-3
IC1012	G-2
IC1013	F-2
Q1001	C-11
Q1002	C-8
Q1003	D-8

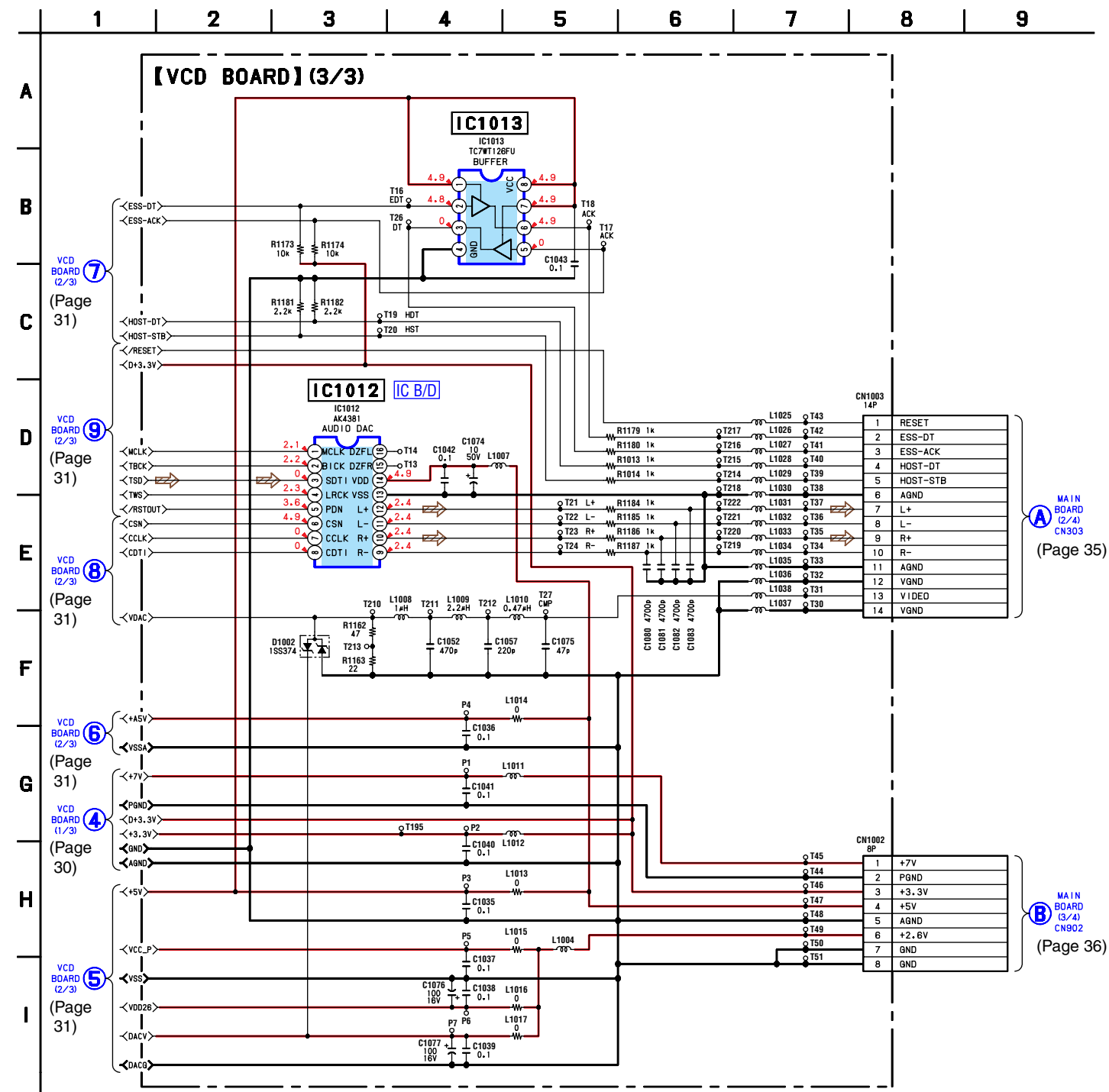
- Refer to page 40 for IC Block Diagrams.



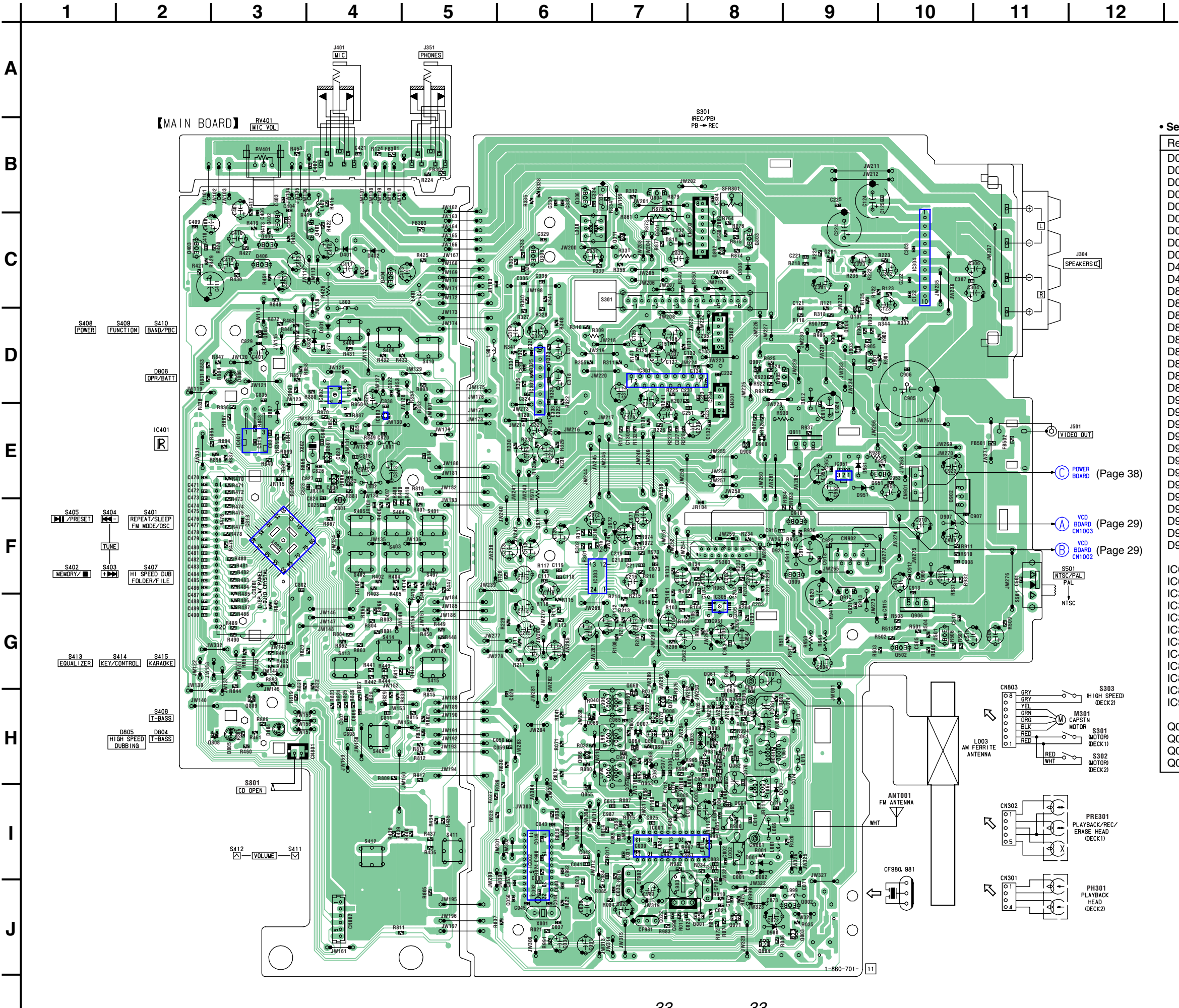
6-10. SCHEMATIC DIAGRAM — VCD SECTION (2/3) — • Refer to page 40 for IC Block Diagram.



6-11. SCHEMATIC DIAGRAM — VCD SECTION (3/3) — • Refer to page 40 for IC Block Diagram.



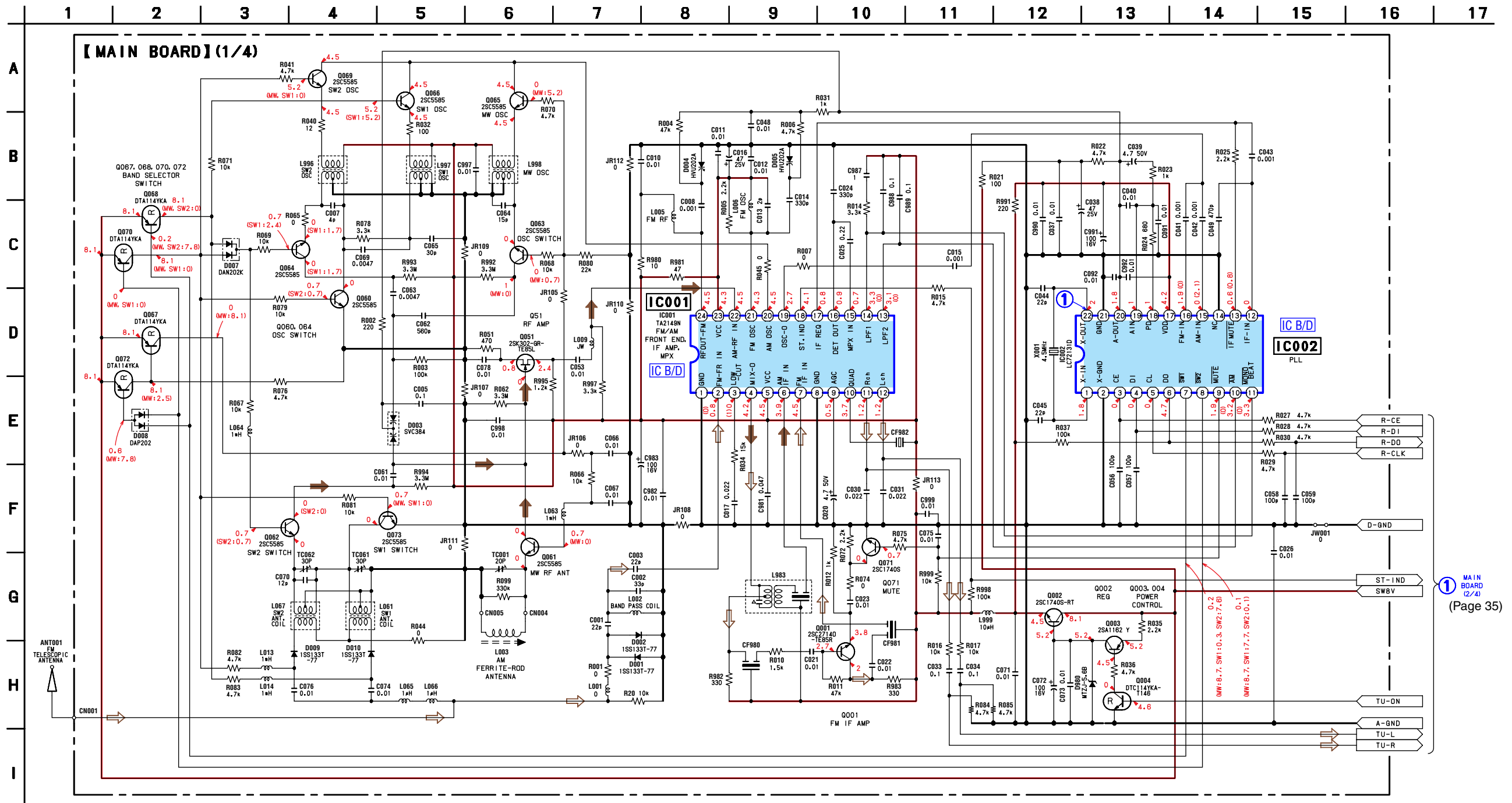
6-12. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 28 for Circuit Boards Location.  : Uses unleaded solder.



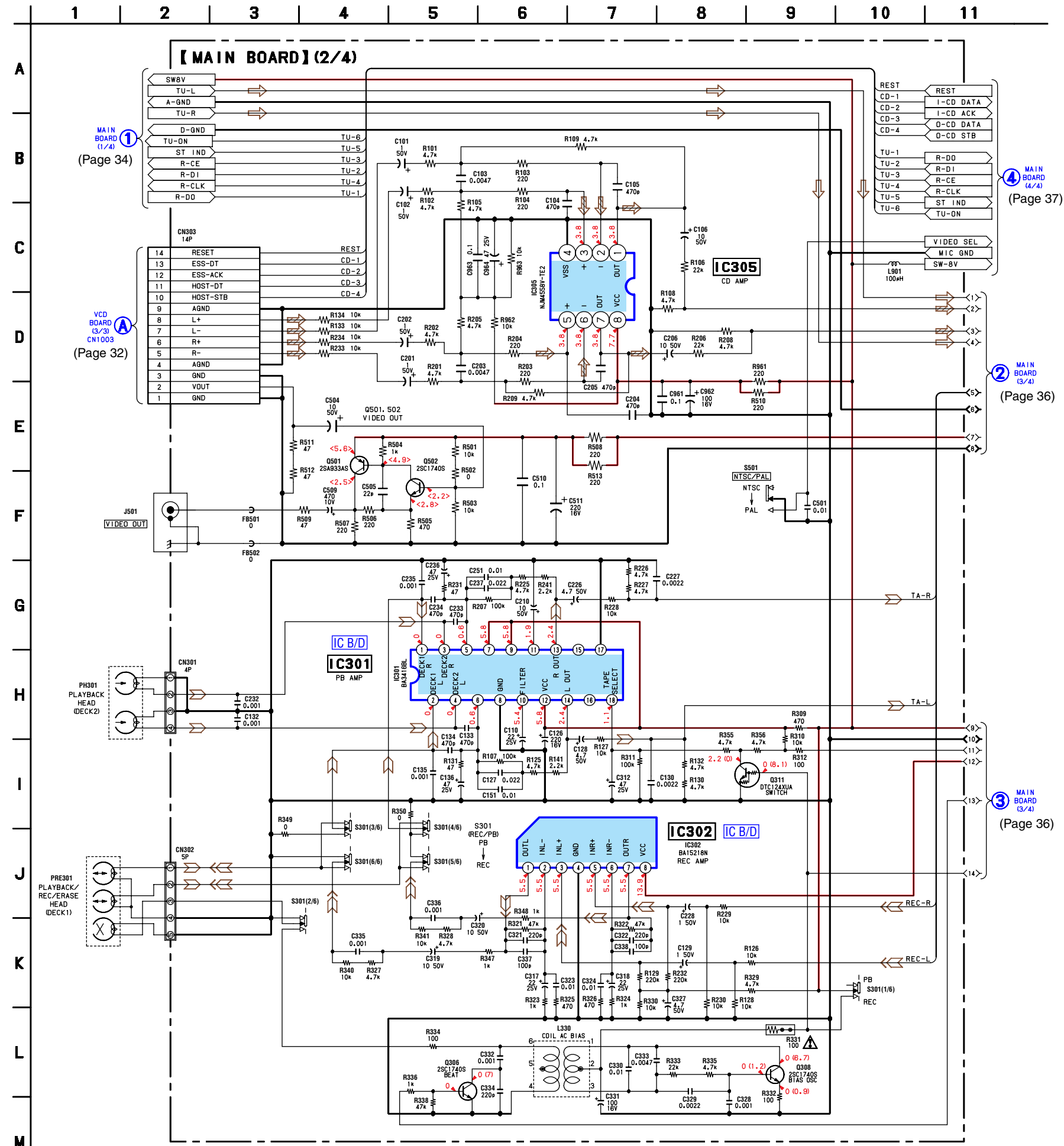
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D001	I-8	Q051	H-8
D002	I-8	Q060	G-7
D003	H-8	Q061	G-8
D004	I-8	Q062	H-8
D005	I-8	Q063	H-8
D007	H-7	Q064	H-7
D008	H-7	Q065	I-6
D009	I-8	Q066	H-6
D010	H-9	Q067	H-7
D401	C-4	Q068	H-7
D402	C-4	Q069	H-6
D801	D-4	Q070	H-7
D802	D-4	Q071	J-8
D804	H-3	Q072	H-7
D805	H-3	Q073	H-8
D806	D-3	Q101	D-9
D807	E-3	Q201	C-9
D808	C-8	Q306	B-6
D809	C-8	Q308	C-6
D810	C-7	Q311	C-7
D906	D-9	Q401	C-4
D907	F-10	Q402	C-3
D908	E-8	Q403	C-3
D909	F-10	Q404	C-4
D911	F-9	Q405	C-3
D912	D-9	Q406	C-3
D913	G-9	Q501	G-10
D921	F-8	Q502	G-10
D951	E-9	Q801	C-7
D971	F-6	Q802	C-8
D972	F-7	Q803	C-8
D980	J-8	Q804	B-7
D981	E-9	Q805	D-3
		Q806	E-4
		Q807	E-4
		Q808	H-3
IC001	I-7	Q809	H-3
IC002	I-6	Q901	D-9
IC301	D-7	Q902	E-10
IC302	D-6	Q903	D-9
IC303	F-7	Q904	D-9
IC304	C-10	Q905	D-8
IC305	G-8	Q906	G-10
IC401	E-3	Q907	D-8
IC801	F-3	Q908	E-8
IC802	D-4	Q909	F-9
IC803	E-4	Q910	F-9
IC951	E-9	Q911	E-9
		Q912	G-9
Q001	J-8	Q951	E-9
Q002	J-9		
Q003	J-9		
Q004	J-8		

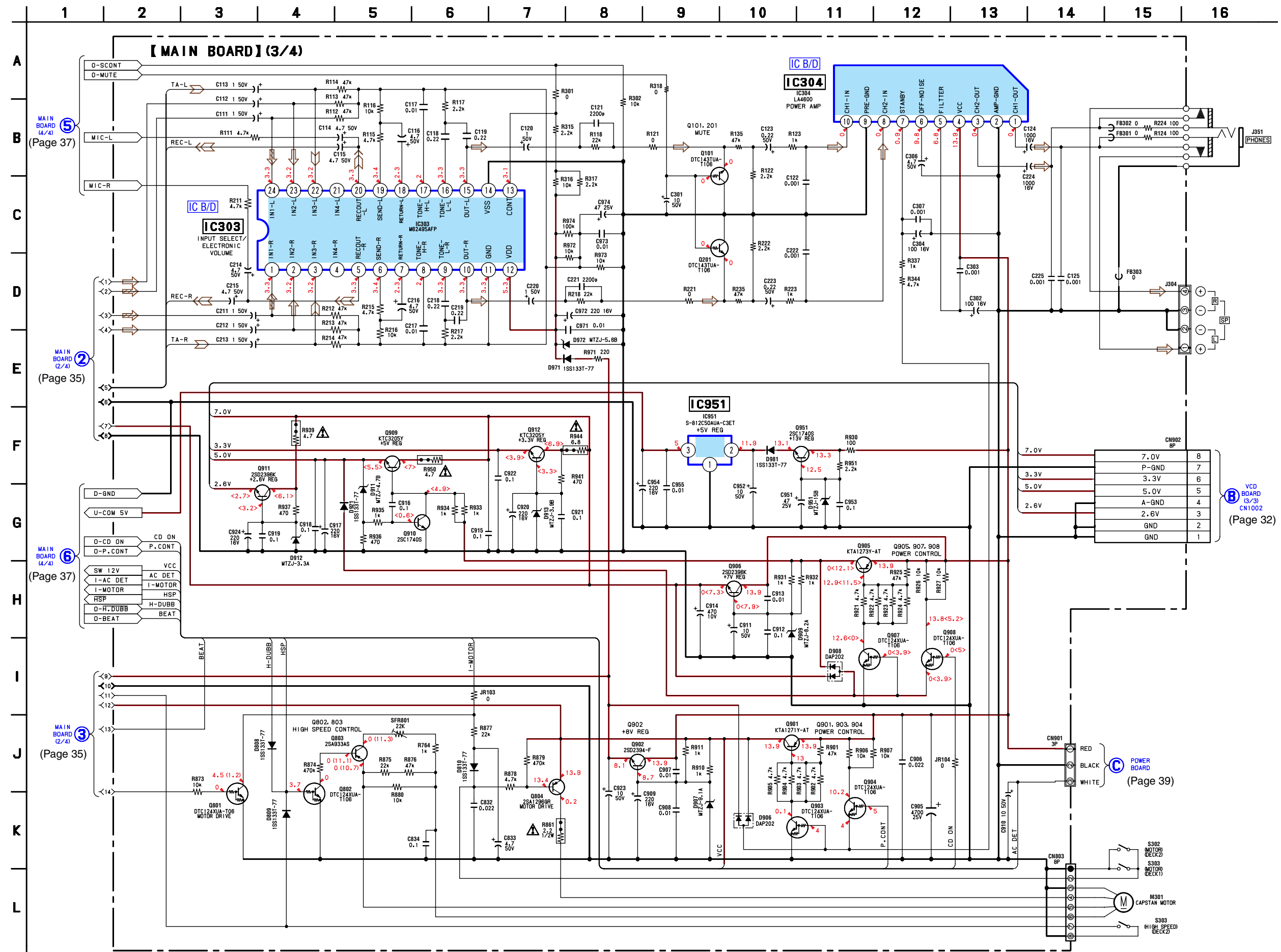
6-13. SCHEMATIC DIAGRAM — MAIN SECTION (1/4) — • Refer to page 40 for IC Block Diagrams.



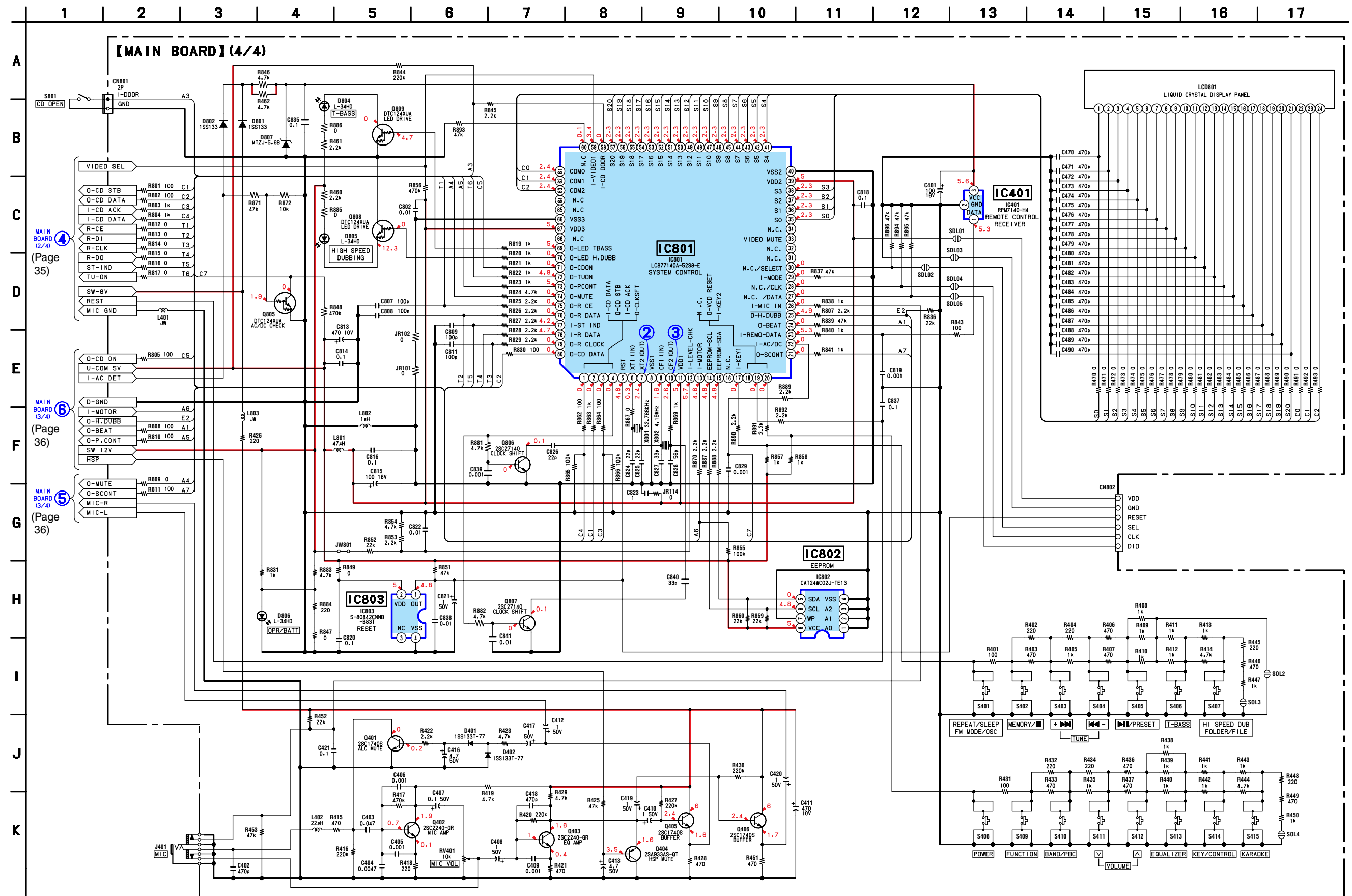
6-14. SCHEMATIC DIAGRAM — MAIN SECTION (2/4) — • Refer to page 41 for IC Block Diagrams.



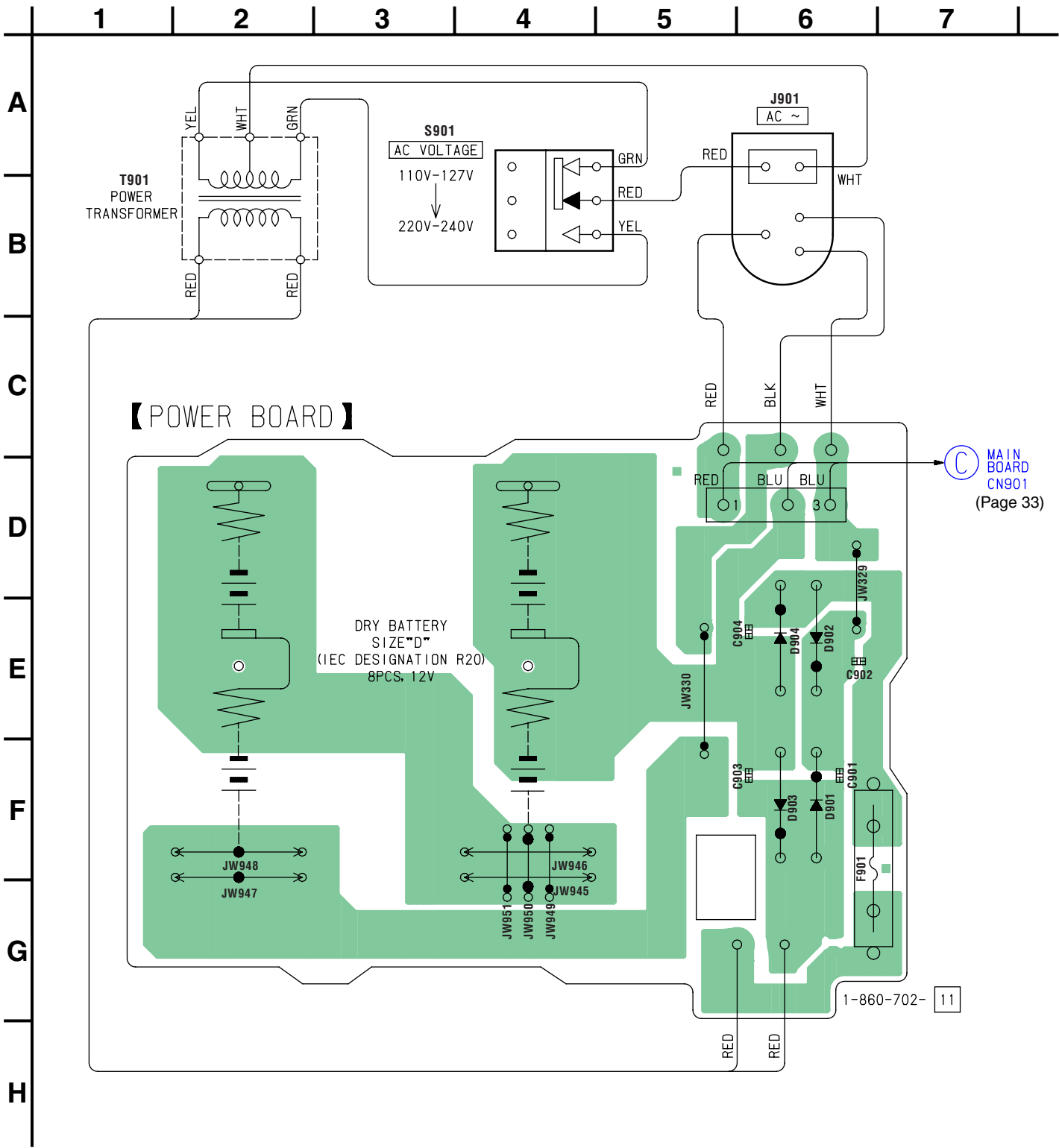
6-15. SCHEMATIC DIAGRAM — MAIN SECTION (3/4) — • Refer to page 41 for IC Block Diagrams.



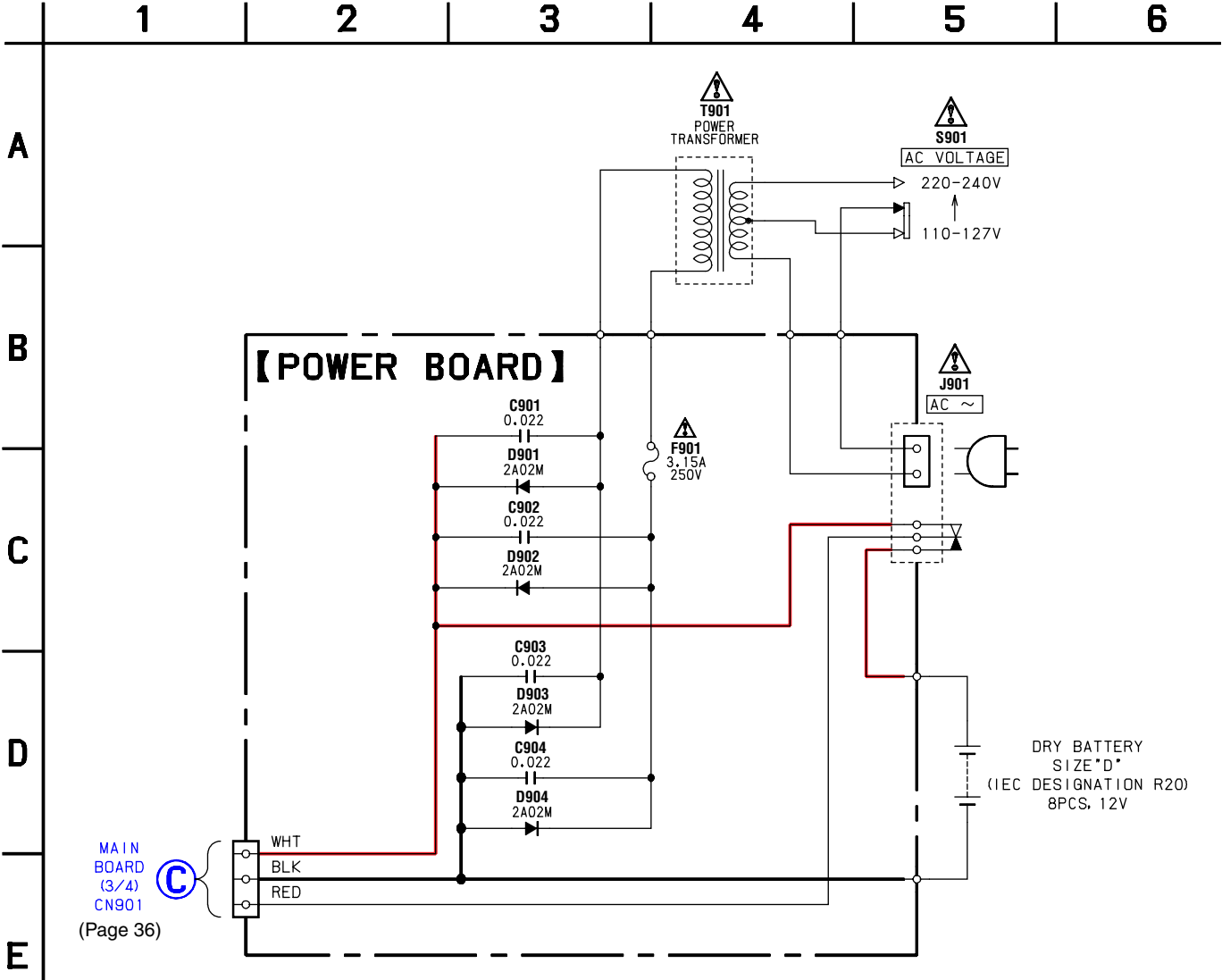
6-16. SCHEMATIC DIAGRAM — MAIN SECTION (4/4) — • Refer to page 28 for Waveforms.



6-17. PRINTED WIRING BOARD — POWER SECTION — • Refer to page 28 for Circuit Boards Location.  : Uses unleaded solder.

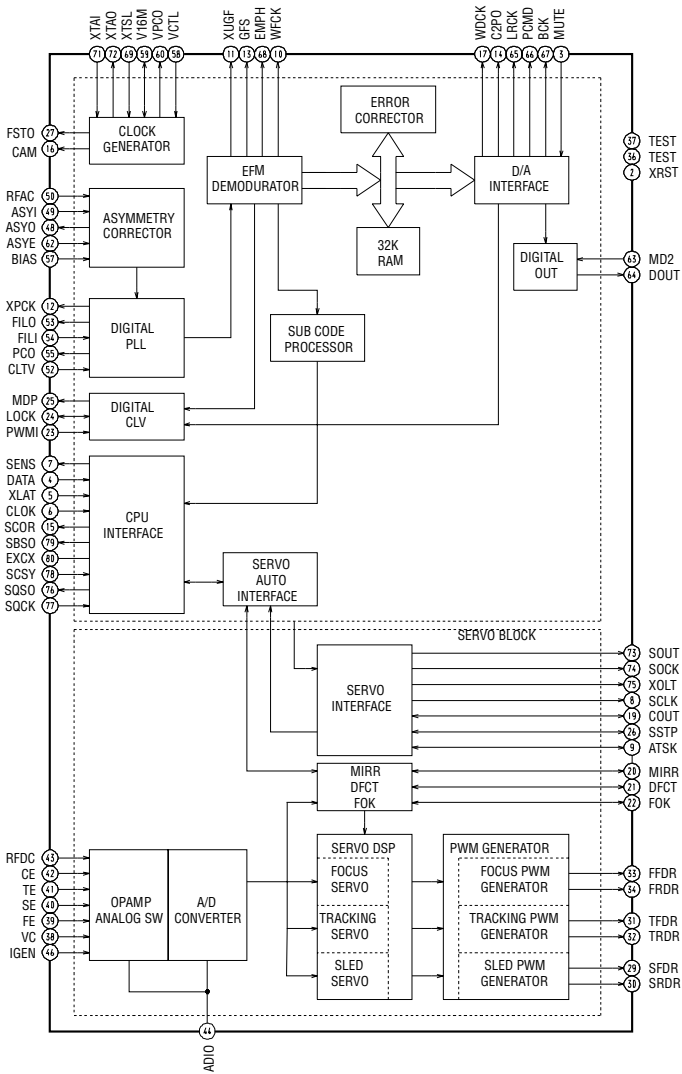


6-18. SCHEMATIC DIAGRAM — POWER SECTION —

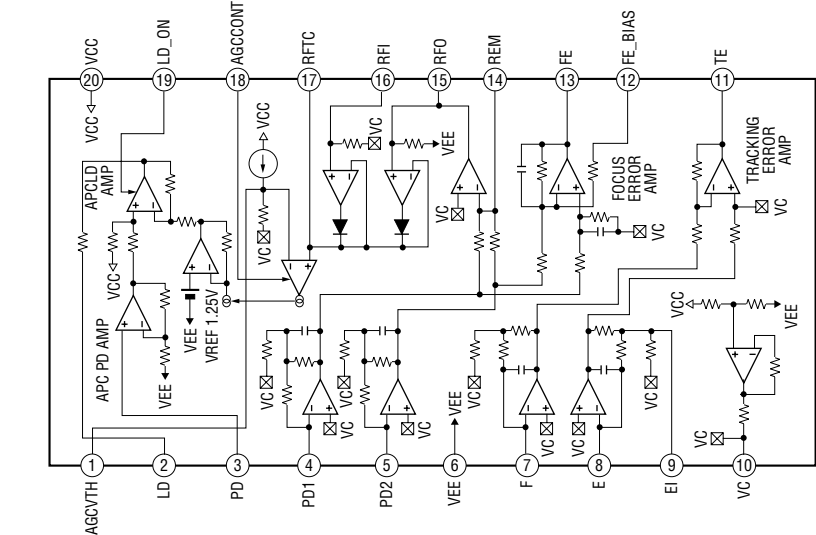


6-19. IC BLOCK DIAGRAMS

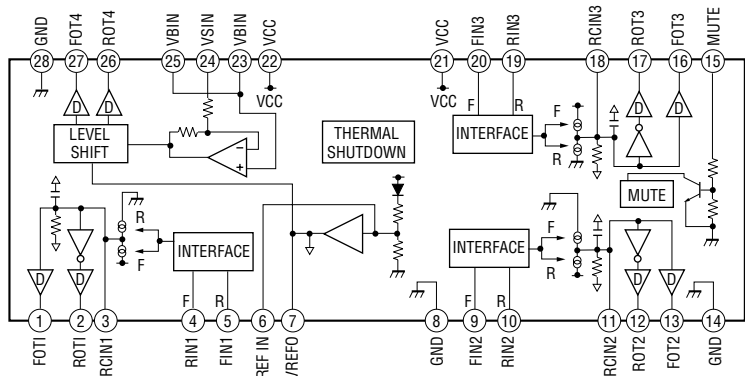
IC1001 CXD3068Q (VCD Board (1/3))



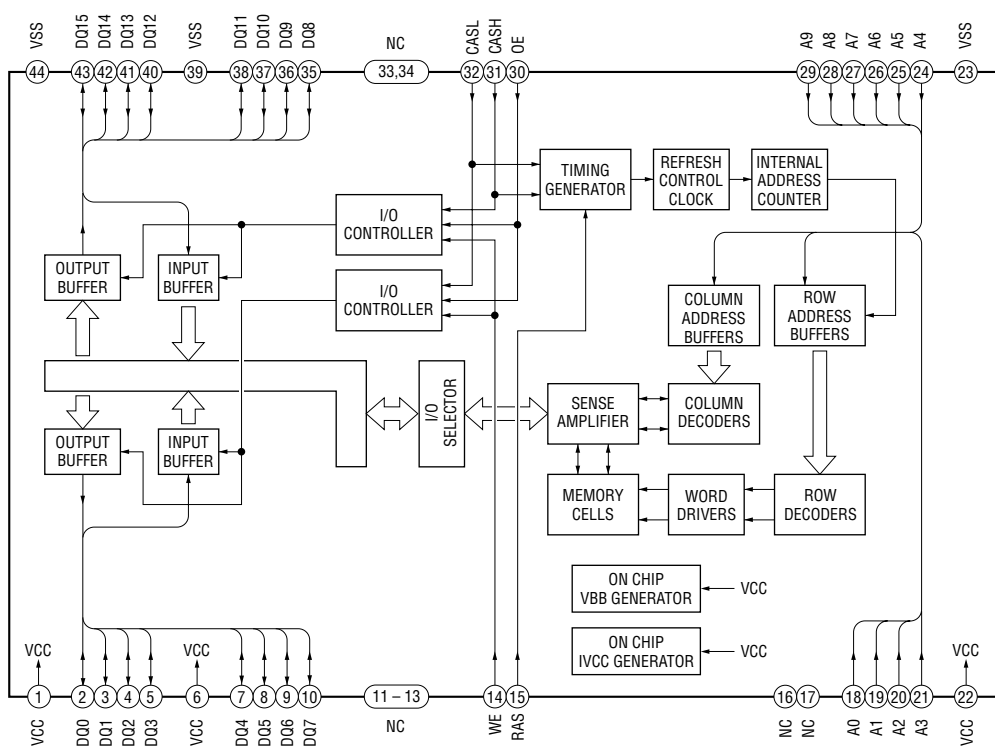
IC1002 CXA2550N (VCD Board (1/3))



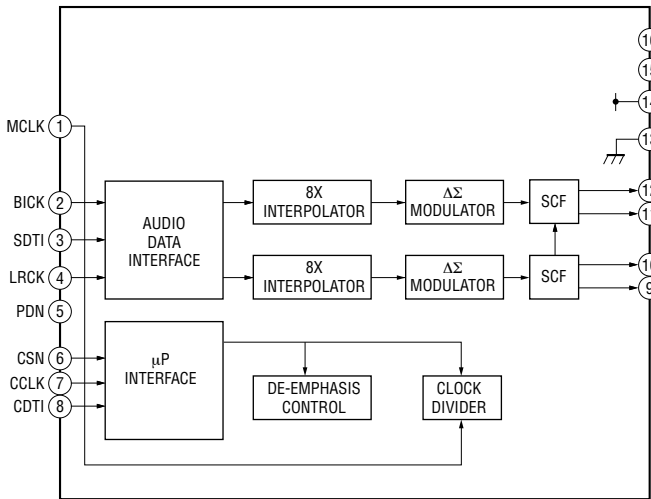
IC1003 BA6392FP (VCD Board (1/3))



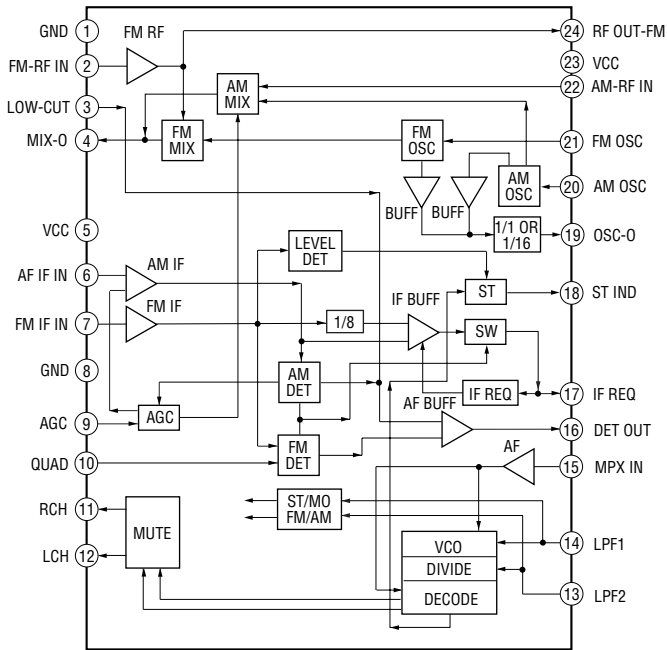
IC1009 IS41LV16100-50 (VCD Board (2/3))



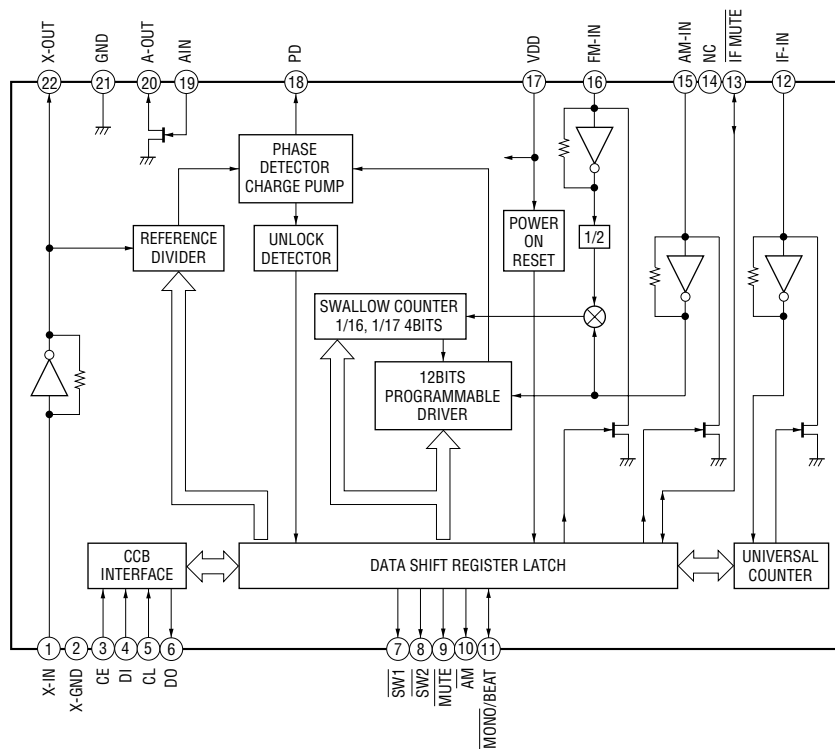
IC1012 AK4381 (VCD Board (3/3))



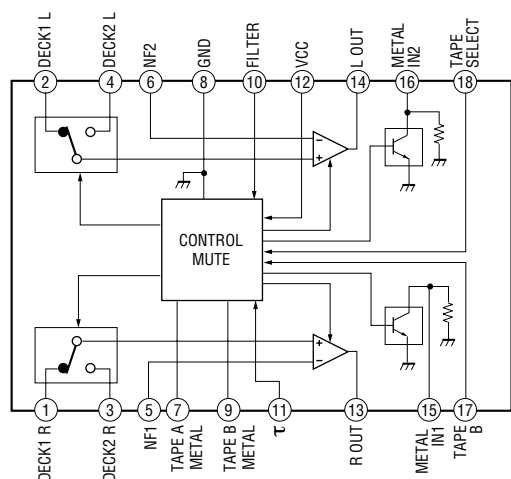
IC001 TA2149N (MAIN Board (1/4))



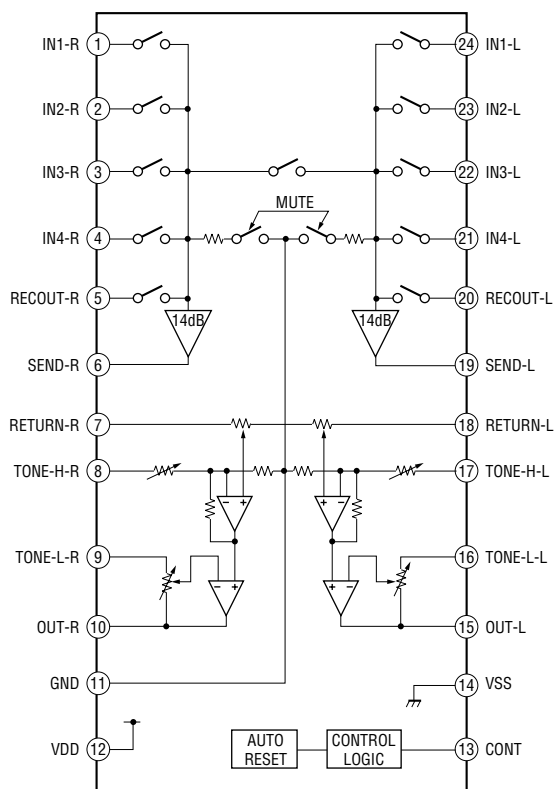
IC002 LC72131D (MAIN Board (1/4))



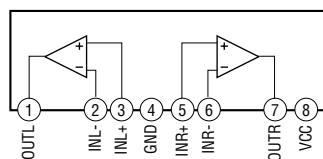
IC301 BA3416BL (MAIN Board (2/4))



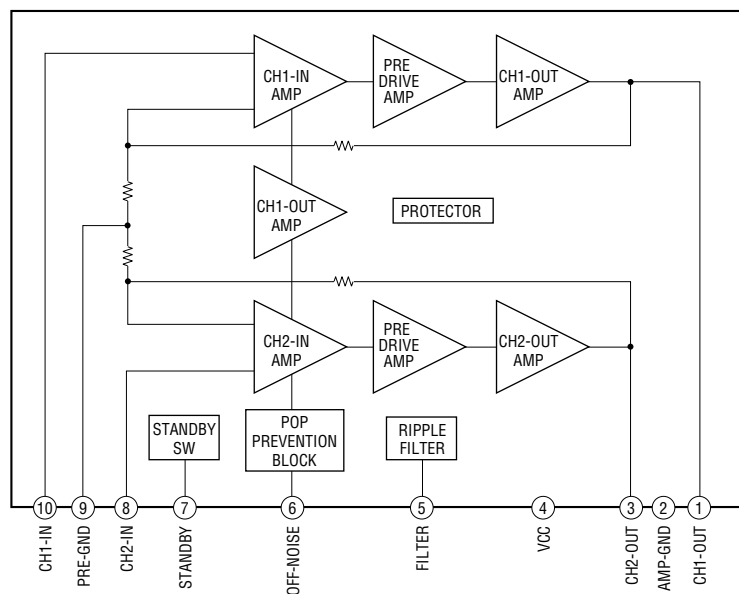
IC303 M62495AFP (MAIN Board (3/4))



IC302 BA15218N (MAIN Board (2/4))



IC304 LA4600 (MAIN Board (3/4))



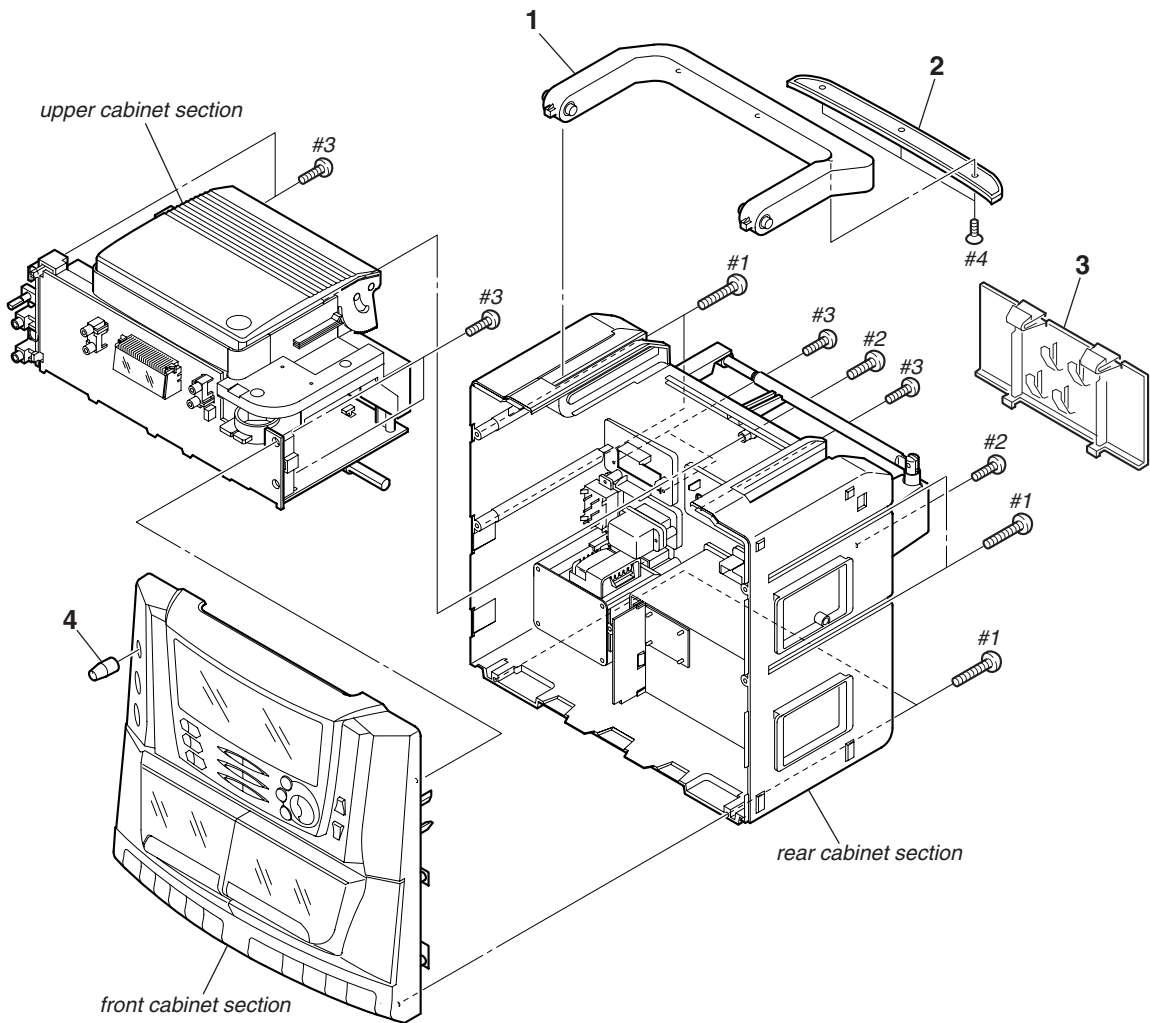
SECTION 7
EXPLODED VIEWS

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

- Color Indication of Appearance Parts
Example :
 ↑ ↑
 Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.

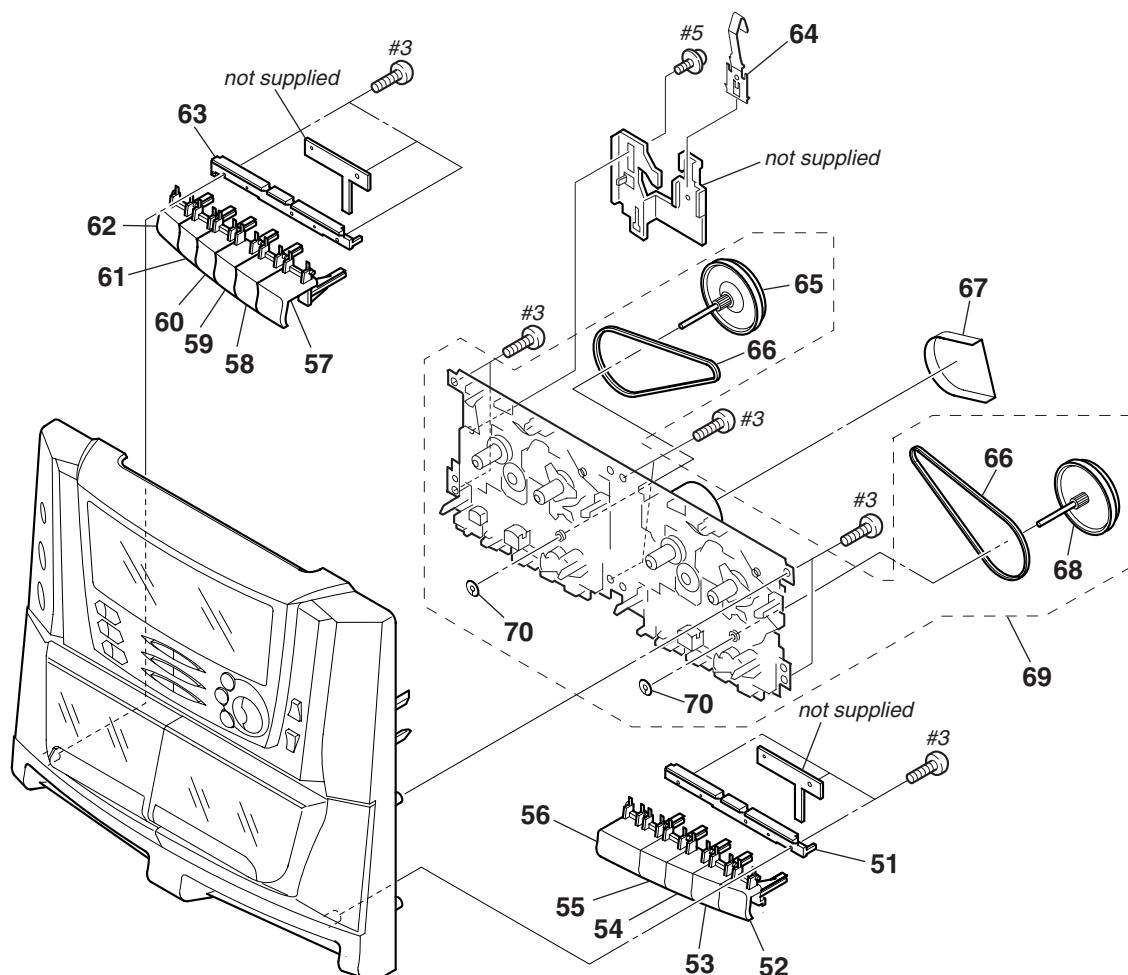
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

7-1. MAIN SECTION



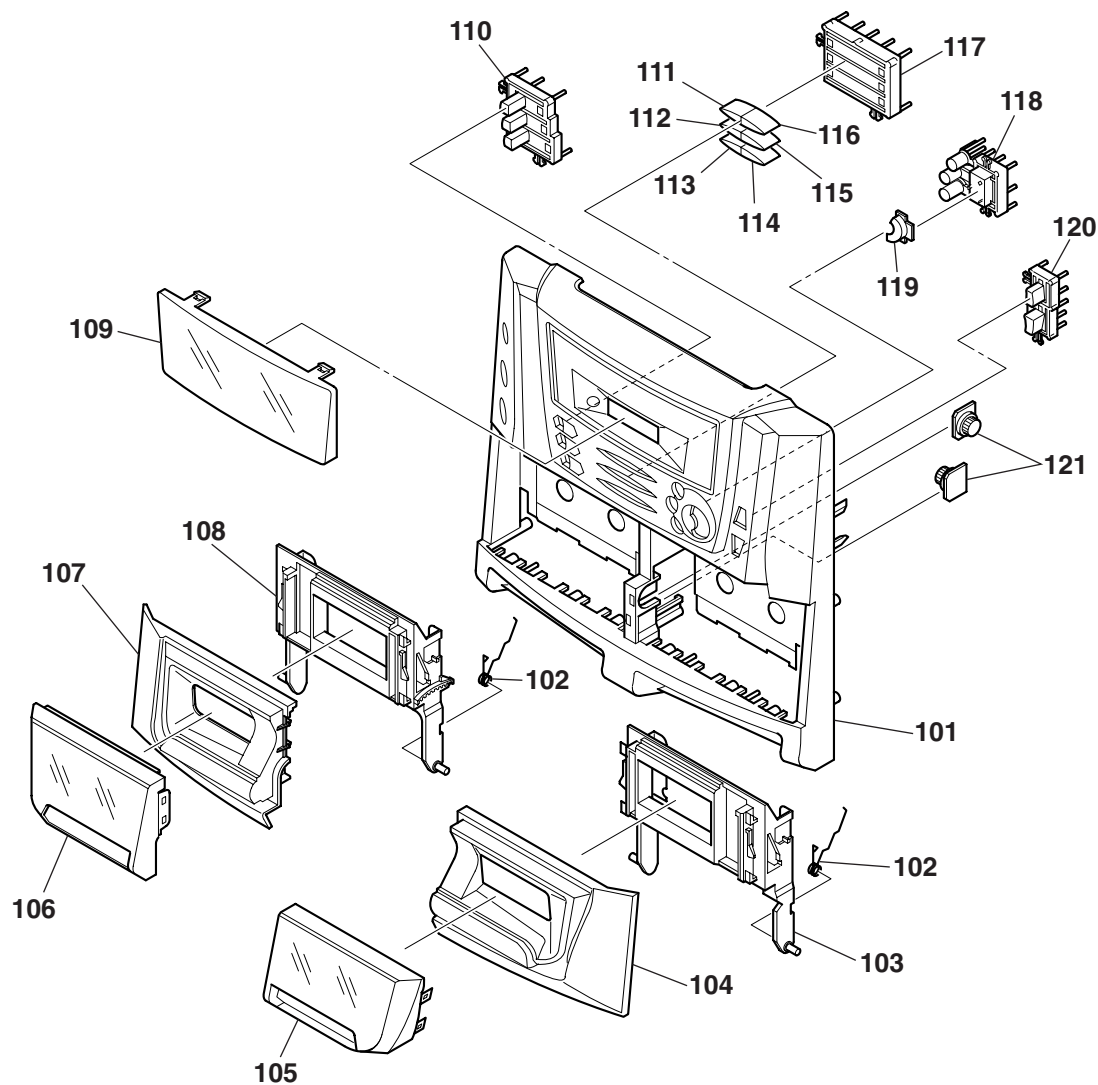
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-260-079-01	HANDLE		#1	7-685-153-19	SCREW +BTP 3X30 TYPE2 N-S	
2	3-260-080-01	COVER, HANDLE		#2	7-685-650-79	SCREW +BVTP 3X16 TYPE2 N-S	
3	3-260-064-01	LID, BATTERY		#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
4	3-260-065-01	KNOB, MIC		#4	7-685-246-19	SCREW +KTP 3X8 TYPE2 NON-SLIT	

7-2. FRONT CABINET (1) SECTION



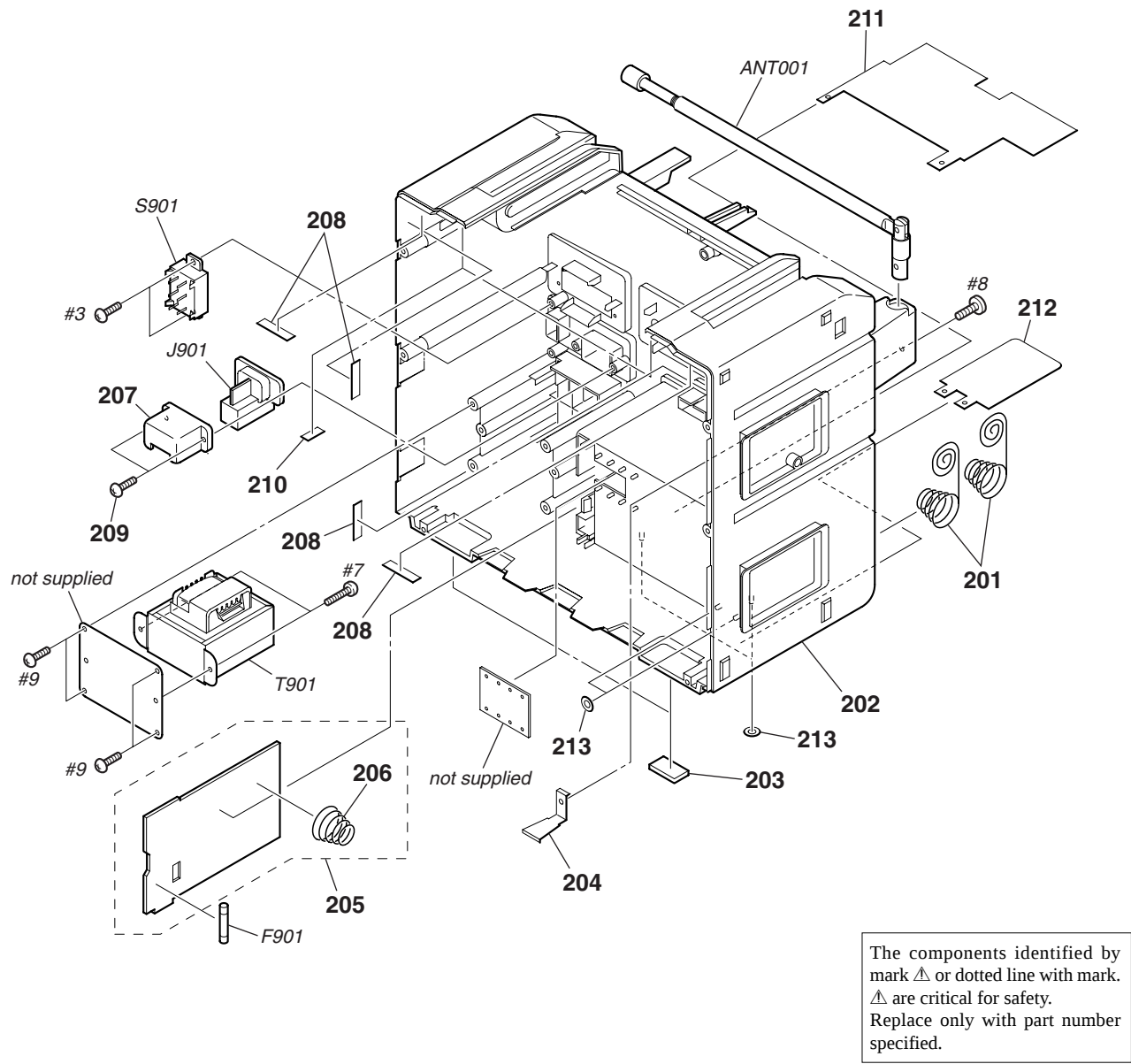
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-260-114-01	HOLDER (R), CASSETTE		62	3-260-120-01	BUTTON (REC) (L)	
52	3-260-121-01	BUTTON (PAUSE) (R)		63	3-260-113-01	HOLDER (L), CASSETTE	
53	3-260-122-01	BUTTON (EJECT) (R)		64	3-260-108-01	SPRING (B), REC	
54	3-260-123-01	BUTTON (FF) (R)		65	3-260-189-01	FLYWHEEL (M3)	
55	3-260-124-01	BUTTON (REW) (R)		66	3-260-187-01	BELT (M), MAIN	
56	3-260-125-01	BUTTON (PLAY) (R)		67	3-260-109-01	PLATE, SHIELD, MOTOR	
57	3-260-115-01	BUTTON (PAUSE) (L)		68	3-260-188-01	FLYWHEEL (ZZM2)	
58	3-260-116-01	BUTTON (EJECT) (L)		69	A-3172-154-A	MF-V100//C	
59	3-260-117-01	BUTTON (FF) (L)		70	2-055-200-01	WASHER, FL	
60	3-260-118-01	BUTTON (REW) (L)		#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
61	3-260-119-01	BUTTON (PLAY) (L)		#5	7-682-902-01	SCREW +PWH 2.6X4	

7-3. FRONT CABINET (2) SECTION



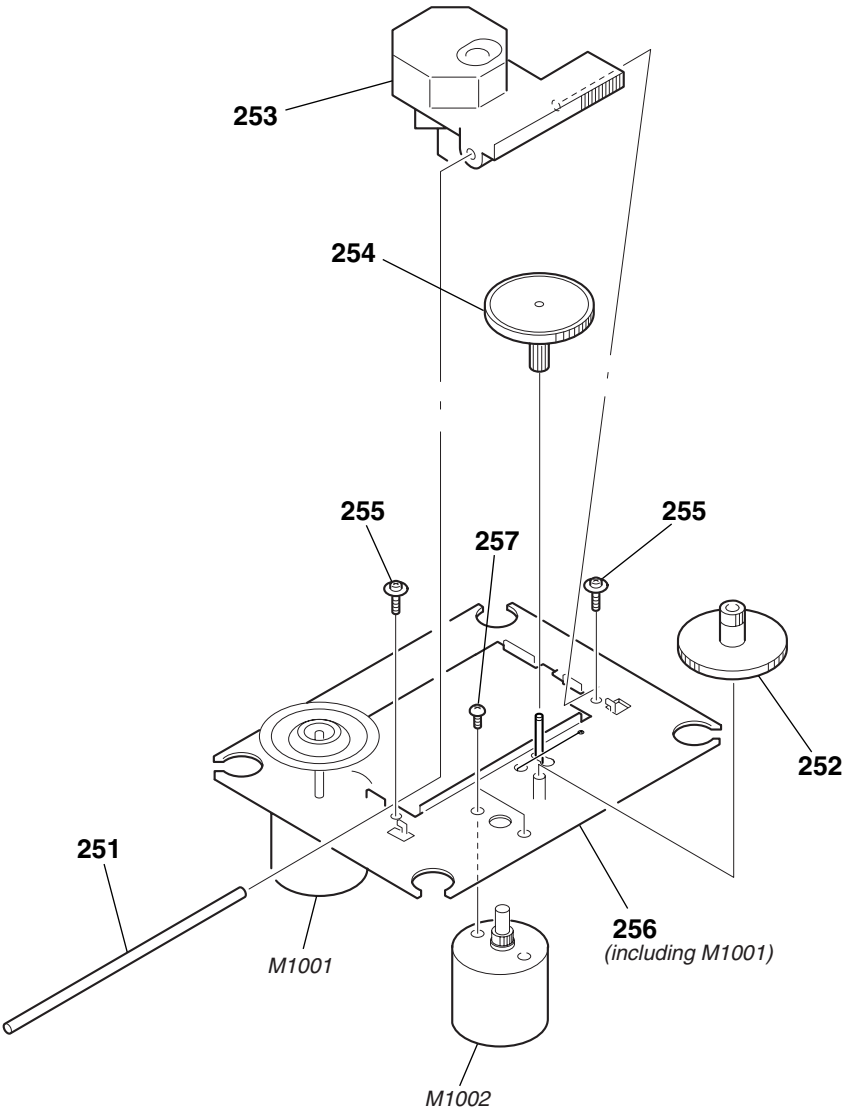
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-3384-184-1	FRONT SUB ASSY, CABINET		112	3-263-375-01	BUTTON (DOWN)	
102	3-260-102-01	SPRING, CASSETTE		113	3-263-377-01	BUTTON (REPEAT)	
103	3-260-092-01	BOX (R), CASSETTE		114	3-263-378-01	BUTTON (DUBBING)	
104	3-260-071-01	PANEL (R), CASSETTE		115	3-263-376-01	BUTTON (UP)	
105	3-260-074-01	WINDOW (R), CASSETTE		116	3-263-374-01	BUTTON (MEMORY)	
106	3-260-073-01	WINDOW (L), CASSETTE		117	3-260-093-01	BASE (CD), BUTTON	
107	3-260-070-01	PANEL (L), CASSETTE		118	3-260-084-01	BUTTON (EQUALIZER)	
108	3-260-091-01	BOX (L), CASSETTE		119	3-260-086-01	BUTTON (BASS)	
109	3-260-075-01	WINDOW, DISPLAY		120	3-260-082-01	BUTTON (VOLUME)	
110	3-260-083-01	BUTTON (FUNCTION)		121	4-242-171-01	DAMPER (150N)	
111	3-263-373-01	BUTTON (PRESET)					

7-5. REAR CABINET SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-260-127-01	SPRING (A), BATTERY		212	3-266-573-01	SHEET (S), BATTERY	
202	3-260-069-01	CABINET, REAR		213	3-267-690-01	WASHER (BATT)	
203	3-260-067-01	RUBBER, CUSHION		ANT001	1-754-309-11	ANTENNA, ROD (FM/SW)	
* 204	3-260-105-01	BRACKET, ANTENNA		▲ F901	1-533-470-12	FUSE, GLASS TUBE (DIA.5) (3.15A/250V)	
* 205	A-4541-650-A	POWER BOARD, COMPLETE		▲ J901	1-817-432-11	INLET (PSE27), AC (AC ~)	
206	3-260-100-01	SPRING (B), BATTERY		▲ S901	1-786-674-11	SWITCH (AC VOLTAGE)	
207	3-250-450-01	COVER, INLET, AC		▲ T901	1-443-145-11	TRANSFORMER, POWER	
208	3-263-769-01	CUSHION		#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
209	4-951-620-11	SCREW (2.6X10), +BVTP		#7	7-682-148-01	SCREW +P 3X8	
210	3-263-768-01	CUSHION		#8	7-682-550-09	SCREW +B 3X12	
211	3-266-564-01	SHEET, BATTERY		#9	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	

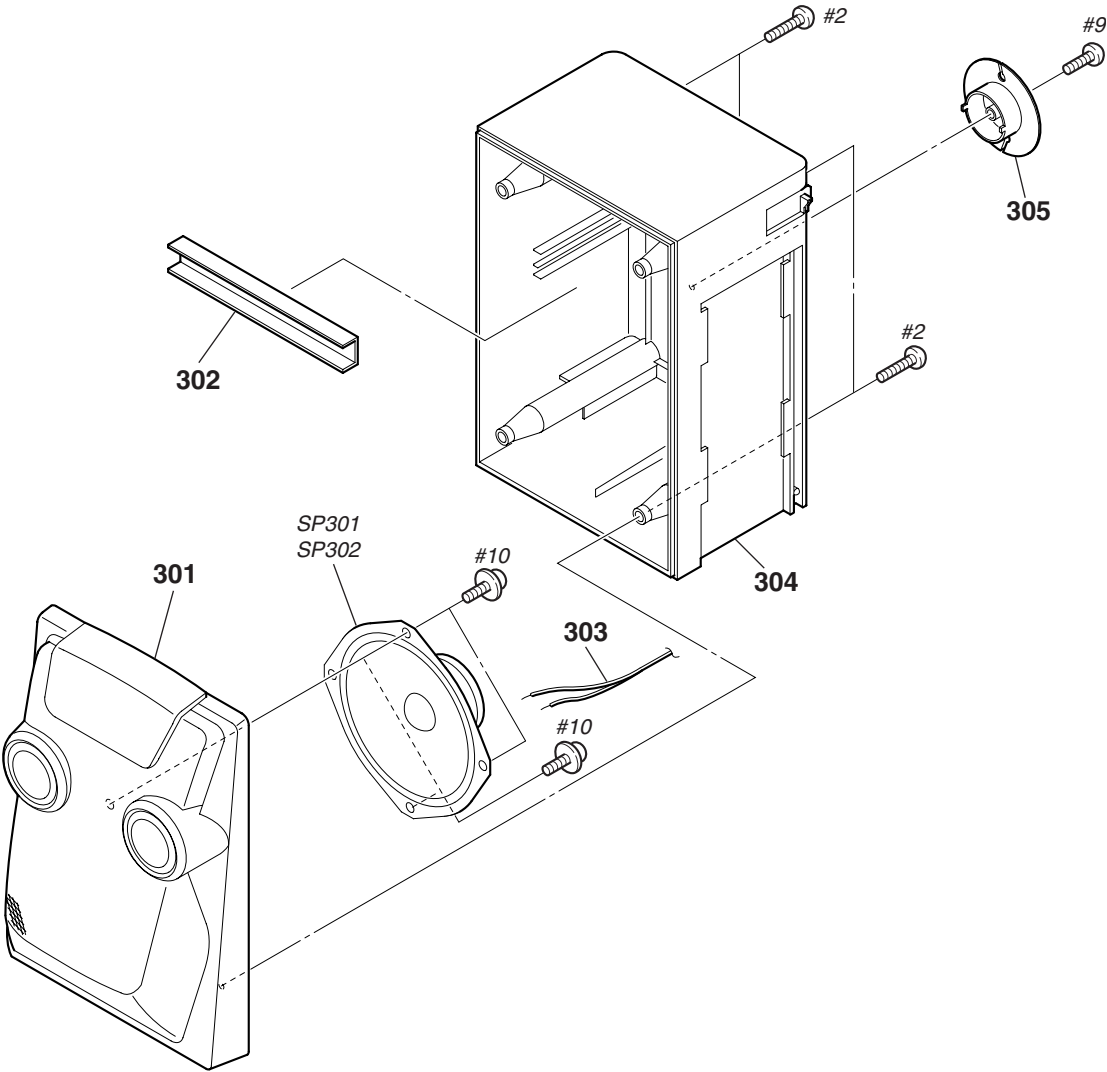
7-6. CD MECHANISM SECTION
(KSM-213RDP)



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	2-626-908-01	SHAFT, SLED		256	X-2162-707-2	CHASSIS ASSY (RDP) (RP), MOTOR (SPINDLE) (including M1001)	
* 252	2-647-408-02	GEAR (B)		257	2-174-500-01	SCREW (2X3)	
$\triangle$ 253	8-820-161-02	OPTICAL PICK-UP (KSS-213R/C2RP)		M1002	X-2162-712-2	GEAR ASSY (R) (RP), MOTOR (SLED)	
* 254	2-169-065-01	GEAR (A)					
255	2-169-388-11	TAPPING (M2), +PWB					

7-7. SPEAKER SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	X-3384-113-1	SPEAKER SUB ASSY		SP301	1-825-641-11	SPEAKER (L-CH)	
302	3-260-110-01	HOLDER (WOOD), SPEAKER		SP302	1-825-641-11	SPEAKER (R-CH)	
303	1-690-969-11	CORD, SPEAKER CONNECTION		#2	7-685-650-79	SCREW +BVTP 3X16 TYPE2 N-S	
304	3-260-098-01	CABINET (L), SPEAKER REAR (L-CH)		#9	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
304	3-260-099-01	CABINET (R), SPEAKER REAR (R-CH)		#10	7-685-903-31	SCREW +PTPWH 3X10 (TYPE2)	
305	3-260-066-01	HOLDER, SPEAKER CORD					

SECTION 8

ELECTRICAL PARTS LIST

MAIN

NOTE:

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

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

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

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

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
*	A-4541-480-A	MAIN BOARD, COMPLETE *****				C048	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C049	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
						C053	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
	3-260-088-01	HOLDER, LCD				C056	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
	3-260-089-01	HOLDER, FUNCTION LED				C057	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
	3-260-090-01	HOLDER, BASS LED									
	3-260-095-01	HOLDER, BAR ANTENNA				C058	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
	3-265-771-01	PLATE, SHIELD				C059	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
						C061	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
	7-685-872-09	SCREW +BVT 3X8 (S)				C062	1-107-737-11	MYLAR	560PF	5%	50V
		< CAPACITOR >				C063	1-130-479-00	MYLAR	0.0047uF	5%	50V
C001	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C064	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C002	1-162-921-11	CERAMIC CHIP	33PF	5%	50V	C065	1-164-378-11	CERAMIC CHIP	30PF	5%	50V
C003	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C066	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C005	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C067	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C007	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V	C069	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C008	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C070	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C010	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C071	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C011	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C072	1-119-774-11	ELECT	100uF	20%	16V
C012	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C073	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C013	1-162-907-11	CERAMIC CHIP	2PF	0.25PF	50V	C074	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C014	1-162-959-11	CERAMIC CHIP	330PF	5%	50V	C075	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C015	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C076	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C016	1-126-947-11	ELECT	47uF	20%	25V	C078	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C017	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C091	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C020	1-126-163-11	ELECT	4.7uF	20%	50V	C092	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C021	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C101	1-126-960-11	ELECT	1uF	20%	50V
C022	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C102	1-126-960-11	ELECT	1uF	20%	50V
C023	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C103	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C024	1-162-961-11	CERAMIC CHIP	330PF	10%	50V	C104	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C025	1-165-128-11	CERAMIC CHIP	0.22uF		16V	C105	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C026	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C106	1-126-964-11	ELECT	10uF	20%	50V
C030	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C110	1-124-248-00	ELECT	22uF	20%	35V
C031	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C111	1-126-960-11	ELECT	1uF	20%	50V
C033	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C112	1-126-960-11	ELECT	1uF	20%	50V
C034	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C113	1-126-960-11	ELECT	1uF	20%	50V
C037	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C114	1-126-163-11	ELECT	4.7uF	20%	50V
C038	1-126-947-11	ELECT	47uF	20%	25V	C115	1-126-163-11	ELECT	4.7uF	20%	50V
C039	1-126-163-11	ELECT	4.7uF	20%	50V	C116	1-126-163-11	ELECT	4.7uF	20%	50V
C040	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C117	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C041	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C118	1-126-957-11	ELECT	0.22uF	20%	50V
C042	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C119	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C043	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C120	1-126-960-11	ELECT	1uF	20%	50V
C044	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C121	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C045	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C122	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
						C123	1-126-957-11	ELECT	0.22uF	20%	50V

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C124	1-126-767-11	ELECT	1000uF	20%	16V	C323	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C125	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C324	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C126	1-126-934-11	ELECT	220uF	20%	16V	C327	1-126-163-11	ELECT	4.7uF	20%	50V
C127	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C328	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C128	1-126-163-11	ELECT	4.7uF	20%	50V	C329	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C129	1-126-960-11	ELECT	1uF	20%	50V	C330	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C130	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C331	1-119-774-11	ELECT	100uF	20%	16V
C132	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C332	1-130-471-00	MYLAR	0.001uF	5%	50V
C133	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C333	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C134	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C334	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C135	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C335	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C136	1-126-947-11	ELECT	47uF	20%	25V	C336	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C151	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C337	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C201	1-126-960-11	ELECT	1uF	20%	50V	C338	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C202	1-126-960-11	ELECT	1uF	20%	50V	C401	1-119-774-11	ELECT	100uF	20%	16V
C203	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C402	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C204	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C403	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C205	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C404	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C206	1-126-964-11	ELECT	10uF	20%	50V	C405	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C210	1-126-964-11	ELECT	10uF	20%	50V	C406	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C211	1-126-960-11	ELECT	1uF	20%	50V	C407	1-126-956-11	ELECT	0.1uF	20%	50V
C212	1-126-960-11	ELECT	1uF	20%	50V	C408	1-126-960-11	ELECT	1uF	20%	50V
C213	1-126-960-11	ELECT	1uF	20%	50V	C409	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C214	1-126-163-11	ELECT	4.7uF	20%	50V	C410	1-126-960-11	ELECT	1uF	20%	50V
C215	1-126-163-11	ELECT	4.7uF	20%	50V	C411	1-126-925-11	ELECT	470uF	20%	10V
C216	1-126-163-11	ELECT	4.7uF	20%	50V	C412	1-126-960-11	ELECT	1uF	20%	50V
C217	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C413	1-126-963-11	ELECT	4.7uF	20%	50V
C218	1-126-957-11	ELECT	0.22uF	20%	50V	C416	1-126-163-11	ELECT	4.7uF	20%	50V
C219	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	C417	1-126-960-11	ELECT	1uF	20%	50V
C220	1-126-960-11	ELECT	1uF	20%	50V	C418	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C221	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C419	1-126-960-11	ELECT	1uF	20%	50V
C222	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C420	1-126-960-11	ELECT	1uF	20%	50V
C223	1-126-957-11	ELECT	0.22uF	20%	50V	C421	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
C224	1-126-767-11	ELECT	1000uF	20%	16V	C470	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C225	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C471	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C226	1-126-163-11	ELECT	4.7uF	20%	50V	C472	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C227	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C473	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C228	1-126-960-11	ELECT	1uF	20%	50V	C474	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C232	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C475	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C233	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C476	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C234	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C477	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C235	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C478	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C236	1-126-947-11	ELECT	47uF	20%	25V	C479	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C237	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C480	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C251	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C481	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C301	1-126-964-11	ELECT	10uF	20%	50V	C482	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C302	1-119-774-11	ELECT	100uF	20%	16V	C483	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C303	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C484	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C304	1-119-774-11	ELECT	100uF	20%	16V	C485	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C306	1-126-163-11	ELECT	4.7uF	20%	50V	C486	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C307	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C487	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C312	1-126-947-11	ELECT	47uF	20%	25V	C488	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C317	1-124-248-00	ELECT	22uF	20%	35V	C489	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C318	1-124-248-00	ELECT	22uF	20%	35V	C490	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C319	1-126-964-11	ELECT	10uF	20%	50V	C501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C320	1-126-964-11	ELECT	10uF	20%	50V	C504	1-126-964-11	ELECT	10uF	20%	50V
C321	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C505	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C322	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C509	1-126-925-11	ELECT	470uF	20%	10V

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark
C510	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C962	1-119-774-11	ELECT	100uF 20%	16V
C511	1-126-934-11	ELECT	220uF	20% 16V	C963	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C802	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	C964	1-126-947-11	ELECT	47uF	20% 25V
C807	1-162-927-11	CERAMIC CHIP	100PF	5% 50V	C971	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
C808	1-162-927-11	CERAMIC CHIP	100PF	5% 50V	C972	1-126-934-11	ELECT	220uF	20% 16V
C809	1-162-927-11	CERAMIC CHIP	100PF	5% 50V	C973	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
C811	1-162-927-11	CERAMIC CHIP	100PF	5% 50V	C974	1-126-947-11	ELECT	47uF	20% 25V
C813	1-126-925-11	ELECT	470uF	20% 10V	C981	1-165-176-11	CERAMIC CHIP	0.047uF	10% 16V
C814	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C982	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
C815	1-119-774-11	ELECT	100uF	20% 16V	C983	1-119-774-11	ELECT	100uF	20% 16V
C816	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C987	1-115-156-11	CERAMIC CHIP	1uF	10V
C818	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C988	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C819	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	C989	1-164-156-11	CERAMIC CHIP	0.1uF	25V
C820	1-164-156-11	CERAMIC CHIP	0.1uF	25V	C990	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
C821	1-126-960-11	ELECT	1uF	20% 50V	C991	1-119-774-11	ELECT	100uF	20% 16V
C822	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	C992	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
C823	1-164-346-11	CERAMIC CHIP	1uF	16V	C997	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
C824	1-162-919-11	CERAMIC CHIP	22PF	5% 50V	C998	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
C825	1-162-919-11	CERAMIC CHIP	22PF	5% 50V	C999	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V
C826	1-162-919-11	CERAMIC CHIP	22PF	5% 50V	< FILTER >				
C827	1-162-921-11	CERAMIC CHIP	33PF	5% 50V	CF980	1-567-390-11	FILTER, CERAMIC		
C828	1-162-924-11	CERAMIC CHIP	56PF	5% 50V	CF981	1-567-390-11	FILTER, CERAMIC		
C829	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	CF982	1-781-171-11	DISCRIMINATOR, CERAMIC		
C832	1-164-227-11	CERAMIC CHIP	0.022uF	10% 25V	< CONNECTOR >				
C833	1-126-963-11	ELECT	4.7uF	20% 50V	* CN001	1-564-187-00	PIN, CONNECTOR 1P		
C834	1-164-156-11	CERAMIC CHIP	0.1uF	25V	* CN004	1-564-187-00	PIN, CONNECTOR 1P		
C835	1-164-156-11	CERAMIC CHIP	0.1uF	25V	* CN005	1-564-187-00	PIN, CONNECTOR 1P		
C837	1-164-156-11	CERAMIC CHIP	0.1uF	25V	* CN301	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P		
C838	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	CN302	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P		
C839	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	CN303	1-779-282-11	CONNECTOR, FFC (LIF(NON-ZIF)) 14P		
C840	1-162-921-11	CERAMIC CHIP	33PF	5% 50V	* CN801	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P		
C841	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	* CN802	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P		
C905	1-128-548-11	ELECT	4700uF	20% 25V	* CN803	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P		
C906	1-164-227-11	CERAMIC CHIP	0.022uF	10% 25V	* CN901	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P		
C907	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	CN902	1-691-040-31	CONNECTOR, FFC 8P		
C908	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	< DIODE >				
C909	1-126-934-11	ELECT	220uF	20% 16V	D001	8-719-991-33	DIODE 1SS133T-77		
C910	1-126-964-11	ELECT	10uF	20% 50V	D002	8-719-991-33	DIODE 1SS133T-77		
C911	1-126-964-11	ELECT	10uF	20% 50V	D004	8-719-058-78	DIODE HVU202A3TRF		
C912	1-164-156-11	CERAMIC CHIP	0.1uF	25V	D005	8-719-058-78	DIODE HVU202A3TRF		
C913	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	D007	8-719-941-86	DIODE DAN202U		
C914	1-126-925-11	ELECT	470uF	20% 10V	D008	8-719-941-09	DIODE DAP202U		
C915	1-164-156-11	CERAMIC CHIP	0.1uF	25V	D009	8-719-991-33	DIODE 1SS133T-77		
C916	1-164-156-11	CERAMIC CHIP	0.1uF	25V	D010	8-719-991-33	DIODE 1SS133T-77		
C917	1-126-934-11	ELECT	220uF	20% 16V	D401	8-719-991-33	DIODE 1SS133T-77		
C918	1-164-156-11	CERAMIC CHIP	0.1uF	25V	D402	8-719-991-33	DIODE 1SS133T-77		
C919	1-164-156-11	CERAMIC CHIP	0.1uF	25V	D801	8-719-991-33	DIODE 1SS133T-77		
C920	1-126-934-11	ELECT	220uF	20% 16V	D802	8-719-991-33	DIODE 1SS133T-77		
C921	1-164-156-11	CERAMIC CHIP	0.1uF	25V	D804	8-719-059-97	LED L-34HD (T-BASS)		
C922	1-164-156-11	CERAMIC CHIP	0.1uF	25V	D805	8-719-059-97	LED L-34HD (HIGH SPEED DUBBING)		
C923	1-126-964-11	ELECT	10uF	20% 50V	D806	8-719-059-97	LED L-34HD (OPR/BATT)		
C924	1-126-934-11	ELECT	220uF	20% 16V	D807	8-719-109-89	DIODE RD5.6ES-B2		
C951	1-126-947-11	ELECT	47uF	20% 25V	D808	8-719-991-33	DIODE 1SS133T-77		
C952	1-126-964-11	ELECT	10uF	20% 50V	D809	8-719-991-33	DIODE 1SS133T-77		
C953	1-164-156-11	CERAMIC CHIP	0.1uF	25V	D810	8-719-991-33	DIODE 1SS133T-77		
C954	1-126-934-11	ELECT	220uF	20% 16V					
C955	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V					
C961	1-164-156-11	CERAMIC CHIP	0.1uF	25V					

CA-V100

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D906	8-719-941-09	DIODE DAP202U				< COIL >	
D907	8-719-923-60	DIODE MTZJ-T-77-9.1A		L003	1-456-604-11	ANTENNA, FERRITE-ROD (MW)	
D908	8-719-941-09	DIODE DAP202U		L005	1-456-601-11	COIL, FM RF	
D909	8-719-110-06	DIODE RD8.2ES-B1		L006	1-456-602-11	COIL, FM OSC	
D911	8-719-921-40	DIODE MTZJ-4.7C		L013	1-410-686-11	INDUCTOR 1mH	
				L014	1-410-686-11	INDUCTOR 1mH	
D912	8-719-982-01	DIODE MTZJ-3.3B					
D913	8-719-109-72	DIODE RD3.9ES-B2		L061	1-456-599-11	COIL, SW1 ANT	
D921	8-719-991-33	DIODE 1SS133T-77		L063	1-410-686-11	INDUCTOR 1mH	
D951	8-719-110-41	DIODE RD15ES-B2		L064	1-410-686-11	INDUCTOR 1mH	
D971	8-719-991-33	DIODE 1SS133T-77		L065	1-414-142-11	INDUCTOR 1uH	
				L066	1-414-142-11	INDUCTOR 1uH	
D972	8-719-109-89	DIODE RD5.6ES-B2					
D980	8-719-109-89	DIODE RD5.6ES-B2		L067	1-456-600-11	COIL, SW2 ANT	
D981	8-719-991-33	DIODE 1SS133T-77		L330	1-456-605-11	COIL (AC-BIAS)	
		< JUMPER RESISTOR >		L402	1-410-330-11	INDUCTOR 22uH	
FB301	1-216-864-11	METAL CHIP 0 5% 1/10W		L801	1-410-517-11	INDUCTOR 47uH	
FB302	1-216-864-11	METAL CHIP 0 5% 1/10W		L802	1-414-142-11	INDUCTOR 1uH	
FB303	1-216-864-11	METAL CHIP 0 5% 1/10W					
FB501	1-216-864-11	METAL CHIP 0 5% 1/10W		L901	1-410-521-11	INDUCTOR 100uH	
FB502	1-216-864-11	METAL CHIP 0 5% 1/10W		L983	1-813-158-11	FILTER	
		< IC >		L996	1-456-598-11	COIL, SW2 OSC	
IC001	8-759-662-67	IC TA2149N		L997	1-456-597-11	COIL, SW1 OSC	
IC002	8-759-590-13	IC LC72131D		L998	1-456-596-11	COIL, MW OSC	
IC301	8-759-942-23	IC BA3416BL					
IC302	8-759-943-95	IC BA15218N		L999	1-410-509-11	INDUCTOR 10uH	
IC303	6-704-633-01	IC M62495AFP				< LIQUID CRYSTAL DISPLAY >	
				LCD801	1-805-466-11	DISPLAY PANEL, LIQUID CRYSTAL	
IC304	8-759-452-80	IC LA4600				< TRANSISTOR >	
IC305	8-759-278-58	IC NJM4558V-TE2					
IC401	6-600-133-01	IC RPM7140-H4		Q001	8-729-200-86	TRANSISTOR 2SC2714-0	
IC801	6-803-892-01	IC LC877140A-52S8-E		Q002	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC802	8-759-678-06	IC CAT24WC02JI-TE13		Q003	8-729-216-21	TRANSISTOR 2SA1162-Y	
				Q004	8-729-027-46	TRANSISTOR DTC114YKA-T146	
IC803	6-704-319-01	IC S-80842CNNB-B83T2G		Q051	8-729-232-11	FET 2SK302-GR-TE85L	
IC951	6-704-240-01	IC S-812C50AUA-C3ET2G					
		< JACK >		Q060	8-729-050-32	TRANSISTOR 2SC5585TL	
J351	1-815-325-11	JACK (PHONES)		Q061	8-729-050-32	TRANSISTOR 2SC5585TL	
J401	1-815-629-11	JACK (MIC)		Q062	8-729-050-32	TRANSISTOR 2SC5585TL	
J501	1-774-227-11	JACK, PIN 1P (VIDEO OUT)		Q063	8-729-050-32	TRANSISTOR 2SC5585TL	
		< JUMPER RESISTOR >		Q064	8-729-050-32	TRANSISTOR 2SC5585TL	
JR101	1-216-864-11	METAL CHIP 0 5% 1/10W					
JR102	1-216-864-11	METAL CHIP 0 5% 1/10W		Q065	8-729-050-32	TRANSISTOR 2SC5585TL	
JR103	1-216-864-11	METAL CHIP 0 5% 1/10W		Q066	8-729-050-32	TRANSISTOR 2SC5585TL	
JR104	1-216-864-11	METAL CHIP 0 5% 1/10W		Q067	8-729-027-26	TRANSISTOR DTA114YKA-T146	
JR105	1-216-864-11	METAL CHIP 0 5% 1/10W		Q068	8-729-027-26	TRANSISTOR DTA114YKA-T146	
				Q069	8-729-050-32	TRANSISTOR 2SC5585TL	
JR106	1-216-864-11	METAL CHIP 0 5% 1/10W					
JR107	1-216-864-11	METAL CHIP 0 5% 1/10W		Q070	8-729-027-26	TRANSISTOR DTA114YKA-T146	
JR108	1-216-864-11	METAL CHIP 0 5% 1/10W		Q071	8-729-119-78	TRANSISTOR 2SC2785-HFE	
JR109	1-216-864-11	METAL CHIP 0 5% 1/10W		Q072	8-729-027-26	TRANSISTOR DTA114YKA-T146	
JR110	1-216-864-11	METAL CHIP 0 5% 1/10W		Q073	8-729-050-32	TRANSISTOR 2SC5585TL	
				Q101	8-729-029-10	TRANSISTOR DTC143TUA-T106	
JR111	1-216-864-11	METAL CHIP 0 5% 1/10W					
JR112	1-216-864-11	METAL CHIP 0 5% 1/10W		Q201	8-729-029-10	TRANSISTOR DTC143TUA-T106	
JR113	1-216-864-11	METAL CHIP 0 5% 1/10W		Q306	8-729-119-78	TRANSISTOR 2SC2785-HFE	
JR114	1-216-864-11	METAL CHIP 0 5% 1/10W		Q308	8-729-119-78	TRANSISTOR 2SC2785-HFE	
JR115	1-216-864-11	METAL CHIP 0 5% 1/10W		Q311	8-729-029-08	TRANSISTOR DTC124XUA-T106	
				Q401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
JW001	1-216-864-11	METAL CHIP 0 5% 1/10W					
				Q402	8-729-307-58	TRANSISTOR 2SC1775A	
				Q403	8-729-307-58	TRANSISTOR 2SC1775A	
				Q404	8-729-026-39	TRANSISTOR 2SA933AS-QT	
				Q405	8-729-119-78	TRANSISTOR 2SC2785-HFE	
				Q406	8-729-119-78	TRANSISTOR 2SC2785-HFE	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
Q501	8-729-026-39	TRANSISTOR	2SA933AS-QT			R044	1-216-864-11	METAL CHIP	0	5%	1/10W
Q502	8-729-119-78	TRANSISTOR	2SC2785-HFE			R045	1-216-864-11	METAL CHIP	0	5%	1/10W
Q801	8-729-029-08	TRANSISTOR	DTC124XUA-T106			R051	1-216-817-11	METAL CHIP	470	5%	1/10W
Q802	8-729-029-08	TRANSISTOR	DTC124XUA-T106			R062	1-216-863-11	METAL CHIP	3.3M	5%	1/10W
Q803	8-729-026-39	TRANSISTOR	2SA933AS-QT			R065	1-216-864-11	METAL CHIP	0	5%	1/10W
Q804	6-550-305-01	TRANSISTOR	2SA1296GR-(TPE2)			R066	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q805	8-729-029-08	TRANSISTOR	DTC124XUA-T106			R067	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q806	8-729-200-86	TRANSISTOR	2SC2714-O			R068	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q807	8-729-200-86	TRANSISTOR	2SC2714-O			R069	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q808	8-729-029-08	TRANSISTOR	DTC124XUA-T106			R070	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q809	8-729-029-08	TRANSISTOR	DTC124XUA-T106			R071	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q901	8-729-037-13	TRANSISTOR	KTA1271Y			R072	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
Q902	8-729-018-99	TRANSISTOR	2SD2394-F			R074	1-216-864-11	METAL CHIP	0	5%	1/10W
Q903	8-729-029-08	TRANSISTOR	DTC124XUA-T106			R075	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q904	8-729-029-08	TRANSISTOR	DTC124XUA-T106			R076	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q905	8-729-040-76	TRANSISTOR	KTA1273-Y-AT			R078	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
Q906	8-729-021-82	TRANSISTOR	2SD2396K			R079	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q907	8-729-029-08	TRANSISTOR	DTC124XUA-T106			R080	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q908	8-729-029-08	TRANSISTOR	DTC124XUA-T106			R081	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q909	8-729-028-54	TRANSISTOR	KTC3205			R082	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q910	8-729-119-78	TRANSISTOR	2SC2785-HFE			R083	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q911	8-729-021-82	TRANSISTOR	2SD2396K			R084	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q912	8-729-028-54	TRANSISTOR	KTC3205			R085	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q951	8-729-119-78	TRANSISTOR	2SC2785-HFE			R099	1-216-851-11	METAL CHIP	330K	5%	1/10W
< RESISTOR >						R101	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R001	1-216-864-11	METAL CHIP	0	5%	1/10W	R102	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R002	1-216-813-11	METAL CHIP	220	5%	1/10W	R103	1-216-813-11	METAL CHIP	220	5%	1/10W
R003	1-216-845-11	METAL CHIP	100K	5%	1/10W	R104	1-216-813-11	METAL CHIP	220	5%	1/10W
R004	1-216-841-11	METAL CHIP	47K	5%	1/10W	R105	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R005	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R106	1-216-837-11	METAL CHIP	22K	5%	1/10W
R006	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R107	1-216-845-11	METAL CHIP	100K	5%	1/10W
R007	1-216-864-11	METAL CHIP	0	5%	1/10W	R108	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R010	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R109	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R011	1-216-841-11	METAL CHIP	47K	5%	1/10W	R111	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R012	1-216-821-11	METAL CHIP	1K	5%	1/10W	R112	1-216-841-11	METAL CHIP	47K	5%	1/10W
R014	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R113	1-216-841-11	METAL CHIP	47K	5%	1/10W
R015	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R114	1-216-841-11	METAL CHIP	47K	5%	1/10W
R016	1-216-833-11	METAL CHIP	10K	5%	1/10W	R115	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R017	1-216-833-11	METAL CHIP	10K	5%	1/10W	R116	1-216-833-11	METAL CHIP	10K	5%	1/10W
R020	1-216-833-11	METAL CHIP	10K	5%	1/10W	R117	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R021	1-216-809-11	METAL CHIP	100	5%	1/10W	R118	1-216-837-11	METAL CHIP	22K	5%	1/10W
R022	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R121	1-216-864-11	METAL CHIP	0	5%	1/10W
R023	1-216-821-11	METAL CHIP	1K	5%	1/10W	R122	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R024	1-216-819-11	METAL CHIP	680	5%	1/10W	R123	1-216-821-11	METAL CHIP	1K	5%	1/10W
R025	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R124	1-216-809-11	METAL CHIP	100	5%	1/10W
R027	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R125	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R028	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R126	1-216-833-11	METAL CHIP	10K	5%	1/10W
R029	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R127	1-216-833-11	METAL CHIP	10K	5%	1/10W
R030	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R128	1-216-833-11	METAL CHIP	10K	5%	1/10W
R031	1-216-821-11	METAL CHIP	1K	5%	1/10W	R129	1-216-849-11	METAL CHIP	220K	5%	1/10W
R032	1-216-809-11	METAL CHIP	100	5%	1/10W	R130	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R034	1-216-835-11	METAL CHIP	15K	5%	1/10W	R131	1-216-805-11	METAL CHIP	47	5%	1/10W
R035	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R132	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R036	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R133	1-216-833-11	METAL CHIP	10K	5%	1/10W
R037	1-216-845-11	METAL CHIP	100K	5%	1/10W	R134	1-216-833-11	METAL CHIP	10K	5%	1/10W
R040	1-216-798-11	METAL CHIP	12	5%	1/10W	R135	1-216-841-11	METAL CHIP	47K	5%	1/10W
R041	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R141	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
						R201	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R202	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R337	1-216-821-11	METAL CHIP	1K	5%	1/10W
R203	1-216-813-11	METAL CHIP	220	5%	1/10W	R338	1-216-841-11	METAL CHIP	47K	5%	1/10W
R204	1-216-813-11	METAL CHIP	220	5%	1/10W	R340	1-216-833-11	METAL CHIP	10K	5%	1/10W
R205	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R341	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-837-11	METAL CHIP	22K	5%	1/10W	R344	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R207	1-216-845-11	METAL CHIP	100K	5%	1/10W	R347	1-216-821-11	METAL CHIP	1K	5%	1/10W
R208	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R348	1-216-821-11	METAL CHIP	1K	5%	1/10W
R209	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R349	1-216-864-11	METAL CHIP	0	5%	1/10W
R211	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R350	1-216-864-11	METAL CHIP	0	5%	1/10W
R212	1-216-841-11	METAL CHIP	47K	5%	1/10W	R355	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R213	1-216-841-11	METAL CHIP	47K	5%	1/10W	R356	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R214	1-216-841-11	METAL CHIP	47K	5%	1/10W	R401	1-216-809-11	METAL CHIP	100	5%	1/10W
R215	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R402	1-216-813-11	METAL CHIP	220	5%	1/10W
R216	1-216-833-11	METAL CHIP	10K	5%	1/10W	R403	1-216-817-11	METAL CHIP	470	5%	1/10W
R217	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R404	1-216-813-11	METAL CHIP	220	5%	1/10W
R218	1-216-837-11	METAL CHIP	22K	5%	1/10W	R405	1-216-821-11	METAL CHIP	1K	5%	1/10W
R221	1-216-864-11	METAL CHIP	0	5%	1/10W	R406	1-216-817-11	METAL CHIP	470	5%	1/10W
R222	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R407	1-216-817-11	METAL CHIP	470	5%	1/10W
R223	1-216-821-11	METAL CHIP	1K	5%	1/10W	R408	1-216-821-11	METAL CHIP	1K	5%	1/10W
R224	1-216-809-11	METAL CHIP	100	5%	1/10W	R409	1-216-821-11	METAL CHIP	1K	5%	1/10W
R225	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R410	1-216-821-11	METAL CHIP	1K	5%	1/10W
R226	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R411	1-216-821-11	METAL CHIP	1K	5%	1/10W
R227	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R412	1-216-821-11	METAL CHIP	1K	5%	1/10W
R228	1-216-833-11	METAL CHIP	10K	5%	1/10W	R413	1-216-821-11	METAL CHIP	1K	5%	1/10W
R229	1-216-833-11	METAL CHIP	10K	5%	1/10W	R414	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R230	1-216-833-11	METAL CHIP	10K	5%	1/10W	R415	1-216-817-11	METAL CHIP	470	5%	1/10W
R231	1-216-805-11	METAL CHIP	47	5%	1/10W	R416	1-216-849-11	METAL CHIP	220K	5%	1/10W
R232	1-216-849-11	METAL CHIP	220K	5%	1/10W	R417	1-216-853-11	METAL CHIP	470K	5%	1/10W
R233	1-216-833-11	METAL CHIP	10K	5%	1/10W	R418	1-216-813-11	METAL CHIP	220	5%	1/10W
R234	1-216-833-11	METAL CHIP	10K	5%	1/10W	R419	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R235	1-216-841-11	METAL CHIP	47K	5%	1/10W	R420	1-216-849-11	METAL CHIP	220K	5%	1/10W
R241	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R421	1-216-817-11	METAL CHIP	470	5%	1/10W
R301	1-216-864-11	METAL CHIP	0	5%	1/10W	R422	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R302	1-216-833-11	METAL CHIP	10K	5%	1/10W	R423	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R309	1-249-413-11	CARBON	470	5%	1/4W	R425	1-216-841-11	METAL CHIP	47K	5%	1/10W
R310	1-216-833-11	METAL CHIP	10K	5%	1/10W	R426	1-249-409-11	CARBON	220	5%	1/4W
R311	1-216-845-11	METAL CHIP	100K	5%	1/10W	R427	1-216-849-11	METAL CHIP	220K	5%	1/10W
R312	1-216-809-11	METAL CHIP	100	5%	1/10W	R428	1-216-817-11	METAL CHIP	470	5%	1/10W
R315	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R429	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R316	1-216-833-11	METAL CHIP	10K	5%	1/10W	R430	1-216-849-11	METAL CHIP	220K	5%	1/10W
R317	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R431	1-216-809-11	METAL CHIP	100	5%	1/10W
R318	1-216-864-11	METAL CHIP	0	5%	1/10W	R432	1-216-813-11	METAL CHIP	220	5%	1/10W
R321	1-216-841-11	METAL CHIP	47K	5%	1/10W	R433	1-216-817-11	METAL CHIP	470	5%	1/10W
R322	1-216-841-11	METAL CHIP	47K	5%	1/10W	R434	1-216-813-11	METAL CHIP	220	5%	1/10W
R323	1-216-821-11	METAL CHIP	1K	5%	1/10W	R435	1-216-821-11	METAL CHIP	1K	5%	1/10W
R324	1-216-821-11	METAL CHIP	1K	5%	1/10W	R436	1-216-817-11	METAL CHIP	470	5%	1/10W
R325	1-216-817-11	METAL CHIP	470	5%	1/10W	R437	1-216-817-11	METAL CHIP	470	5%	1/10W
R326	1-216-817-11	METAL CHIP	470	5%	1/10W	R438	1-216-821-11	METAL CHIP	1K	5%	1/10W
R327	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R439	1-216-821-11	METAL CHIP	1K	5%	1/10W
R328	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R440	1-216-821-11	METAL CHIP	1K	5%	1/10W
R329	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R441	1-216-821-11	METAL CHIP	1K	5%	1/10W
R330	1-216-833-11	METAL CHIP	10K	5%	1/10W	R442	1-216-821-11	METAL CHIP	1K	5%	1/10W
△ R331	1-212-881-11	FUSIBLE	100	5%	1/4W F	R443	1-216-821-11	METAL CHIP	1K	5%	1/10W
R332	1-216-809-11	METAL CHIP	100	5%	1/10W	R444	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R333	1-216-837-11	METAL CHIP	22K	5%	1/10W	R445	1-216-813-11	METAL CHIP	220	5%	1/10W
R334	1-216-809-11	METAL CHIP	100	5%	1/10W	R446	1-216-817-11	METAL CHIP	470	5%	1/10W
R335	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R447	1-216-821-11	METAL CHIP	1K	5%	1/10W
R336	1-216-821-11	METAL CHIP	1K	5%	1/10W	R448	1-216-813-11	METAL CHIP	220	5%	1/10W

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

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R449	1-216-817-11	METAL CHIP	470	5%	1/10W	R814	1-216-864-11	METAL CHIP	0	5%	1/10W
R450	1-216-821-11	METAL CHIP	1K	5%	1/10W	R815	1-216-864-11	METAL CHIP	0	5%	1/10W
R451	1-216-817-11	METAL CHIP	470	5%	1/10W	R816	1-216-864-11	METAL CHIP	0	5%	1/10W
R452	1-216-837-11	METAL CHIP	22K	5%	1/10W	R817	1-216-864-11	METAL CHIP	0	5%	1/10W
R453	1-216-841-11	METAL CHIP	47K	5%	1/10W	R819	1-216-821-11	METAL CHIP	1K	5%	1/10W
R460	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R820	1-216-821-11	METAL CHIP	1K	5%	1/10W
R461	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R821	1-216-821-11	METAL CHIP	1K	5%	1/10W
R462	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R822	1-216-821-11	METAL CHIP	1K	5%	1/10W
R470	1-216-864-11	METAL CHIP	0	5%	1/10W	R823	1-216-821-11	METAL CHIP	1K	5%	1/10W
R471	1-216-864-11	METAL CHIP	0	5%	1/10W	R824	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R472	1-216-864-11	METAL CHIP	0	5%	1/10W	R825	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R473	1-216-864-11	METAL CHIP	0	5%	1/10W	R826	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R474	1-216-864-11	METAL CHIP	0	5%	1/10W	R827	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R475	1-216-864-11	METAL CHIP	0	5%	1/10W	R828	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R476	1-216-864-11	METAL CHIP	0	5%	1/10W	R829	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R477	1-216-864-11	METAL CHIP	0	5%	1/10W	R830	1-216-809-11	METAL CHIP	100	5%	1/10W
R478	1-216-864-11	METAL CHIP	0	5%	1/10W	R831	1-216-821-11	METAL CHIP	1K	5%	1/10W
R479	1-216-864-11	METAL CHIP	0	5%	1/10W	R836	1-216-837-11	METAL CHIP	22K	5%	1/10W
R480	1-216-864-11	METAL CHIP	0	5%	1/10W	R837	1-216-841-11	METAL CHIP	47K	5%	1/10W
R481	1-216-864-11	METAL CHIP	0	5%	1/10W	R838	1-216-821-11	METAL CHIP	1K	5%	1/10W
R482	1-216-864-11	METAL CHIP	0	5%	1/10W	R839	1-216-841-11	METAL CHIP	47K	5%	1/10W
R483	1-216-864-11	METAL CHIP	0	5%	1/10W	R840	1-216-821-11	METAL CHIP	1K	5%	1/10W
R484	1-216-864-11	METAL CHIP	0	5%	1/10W	R841	1-216-821-11	METAL CHIP	1K	5%	1/10W
R485	1-216-864-11	METAL CHIP	0	5%	1/10W	R843	1-216-809-11	METAL CHIP	100	5%	1/10W
R486	1-216-864-11	METAL CHIP	0	5%	1/10W	R844	1-216-849-11	METAL CHIP	220K	5%	1/10W
R487	1-216-864-11	METAL CHIP	0	5%	1/10W	R845	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R488	1-216-864-11	METAL CHIP	0	5%	1/10W	R846	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R489	1-216-864-11	METAL CHIP	0	5%	1/10W	R847	1-216-864-11	METAL CHIP	0	5%	1/10W
R490	1-216-864-11	METAL CHIP	0	5%	1/10W	R848	1-216-853-11	METAL CHIP	470K	5%	1/10W
R491	1-216-833-11	METAL CHIP	10K	5%	1/10W	R849	1-216-864-11	METAL CHIP	0	5%	1/10W
R492	1-216-833-11	METAL CHIP	10K	5%	1/10W	R851	1-216-841-11	METAL CHIP	47K	5%	1/10W
R493	1-216-833-11	METAL CHIP	10K	5%	1/10W	R852	1-216-837-11	METAL CHIP	22K	5%	1/10W
R501	1-216-833-11	METAL CHIP	10K	5%	1/10W	R853	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R502	1-216-864-11	METAL CHIP	0	5%	1/10W	R854	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R503	1-216-833-11	METAL CHIP	10K	5%	1/10W	R855	1-216-845-11	METAL CHIP	100K	5%	1/10W
R504	1-216-821-11	METAL CHIP	1K	5%	1/10W	R856	1-216-853-11	METAL CHIP	470K	5%	1/10W
R505	1-216-817-11	METAL CHIP	470	5%	1/10W	R857	1-216-821-11	METAL CHIP	1K	5%	1/10W
R506	1-216-813-11	METAL CHIP	220	5%	1/10W	R858	1-216-821-11	METAL CHIP	1K	5%	1/10W
R507	1-216-813-11	METAL CHIP	220	5%	1/10W	R859	1-216-837-11	METAL CHIP	22K	5%	1/10W
R508	1-216-813-11	METAL CHIP	220	5%	1/10W	R860	1-216-837-11	METAL CHIP	22K	5%	1/10W
R509	1-216-805-11	METAL CHIP	47	5%	1/10W	△R861	1-212-942-00	FUSIBLE	2.2	5%	1/2W F
R510	1-216-813-11	METAL CHIP	220	5%	1/10W	R862	1-216-809-11	METAL CHIP	100	5%	1/10W
R511	1-216-805-11	METAL CHIP	47	5%	1/10W	R863	1-216-821-11	METAL CHIP	1K	5%	1/10W
R512	1-216-805-11	METAL CHIP	47	5%	1/10W	R864	1-216-809-11	METAL CHIP	100	5%	1/10W
R513	1-216-813-11	METAL CHIP	220	5%	1/10W	R865	1-216-845-11	METAL CHIP	100K	5%	1/10W
R764	1-216-821-11	METAL CHIP	1K	5%	1/10W	R866	1-216-845-11	METAL CHIP	100K	5%	1/10W
R801	1-216-809-11	METAL CHIP	100	5%	1/10W	R867	1-216-864-11	METAL CHIP	0	5%	1/10W
R802	1-216-809-11	METAL CHIP	100	5%	1/10W	R869	1-216-821-11	METAL CHIP	1K	5%	1/10W
R803	1-216-821-11	METAL CHIP	1K	5%	1/10W	R870	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R804	1-216-821-11	METAL CHIP	1K	5%	1/10W	R871	1-216-841-11	METAL CHIP	47K	5%	1/10W
R805	1-216-809-11	METAL CHIP	100	5%	1/10W	R872	1-216-833-11	METAL CHIP	10K	5%	1/10W
R807	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R873	1-216-833-11	METAL CHIP	10K	5%	1/10W
R808	1-216-809-11	METAL CHIP	100	5%	1/10W	R874	1-216-853-11	METAL CHIP	470K	5%	1/10W
R809	1-216-864-11	METAL CHIP	0	5%	1/10W	R875	1-216-837-11	METAL CHIP	22K	5%	1/10W
R810	1-216-809-11	METAL CHIP	100	5%	1/10W	R876	1-216-841-11	METAL CHIP	47K	5%	1/10W
R811	1-216-809-11	METAL CHIP	100	5%	1/10W	R877	1-216-837-11	METAL CHIP	22K	5%	1/10W
R812	1-216-864-11	METAL CHIP	0	5%	1/10W	R878	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R813	1-216-864-11	METAL CHIP	0	5%	1/10W	R879	1-216-853-11	METAL CHIP	470K	5%	1/10W

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CA-V100

MAIN

POWER

Ref. No.	Part No.	Description	Remark
R880	1-216-833-11	METAL CHIP 10K 5%	1/10W
R881	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R882	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R883	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R884	1-216-813-11	METAL CHIP 220 5%	1/10W
R885	1-216-864-11	METAL CHIP 0 5%	1/10W
R886	1-216-864-11	METAL CHIP 0 5%	1/10W
R887	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R888	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R889	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R890	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R891	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R892	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R893	1-216-841-11	METAL CHIP 47K 5%	1/10W
R894	1-216-841-11	METAL CHIP 47K 5%	1/10W
R895	1-216-841-11	METAL CHIP 47K 5%	1/10W
R896	1-216-841-11	METAL CHIP 47K 5%	1/10W
R901	1-216-841-11	METAL CHIP 47K 5%	1/10W
R902	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R903	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R904	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R905	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R906	1-216-833-11	METAL CHIP 10K 5%	1/10W
R907	1-216-833-11	METAL CHIP 10K 5%	1/10W
R910	1-216-821-11	METAL CHIP 1K 5%	1/10W
R911	1-216-821-11	METAL CHIP 1K 5%	1/10W
R921	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R922	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R923	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R924	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R925	1-216-841-11	METAL CHIP 47K 5%	1/10W
R926	1-216-833-11	METAL CHIP 10K 5%	1/10W
R927	1-216-833-11	METAL CHIP 10K 5%	1/10W
R930	1-247-807-11	CARBON 100 5%	1/4W
R931	1-216-821-11	METAL CHIP 1K 5%	1/10W
R932	1-216-821-11	METAL CHIP 1K 5%	1/10W
R933	1-216-821-11	METAL CHIP 1K 5%	1/10W
R934	1-216-821-11	METAL CHIP 1K 5%	1/10W
R935	1-216-821-11	METAL CHIP 1K 5%	1/10W
R936	1-216-817-11	METAL CHIP 470 5%	1/10W
R937	1-216-817-11	METAL CHIP 470 5%	1/10W
△ R939	1-212-849-00	FUSIBLE 4.7 5%	1/4W F
R941	1-216-817-11	METAL CHIP 470 5%	1/10W
△ R944	1-212-853-00	FUSIBLE 6.8 5%	1/4W F
△ R950	1-212-849-00	FUSIBLE 4.7 5%	1/4W F
R951	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R961	1-216-813-11	METAL CHIP 220 5%	1/10W
R962	1-216-833-11	METAL CHIP 10K 5%	1/10W
R963	1-216-833-11	METAL CHIP 10K 5%	1/10W
R971	1-249-409-11	CARBON 220 5%	1/4W
R972	1-216-833-11	METAL CHIP 10K 5%	1/10W
R973	1-216-833-11	METAL CHIP 10K 5%	1/10W
R974	1-216-845-11	METAL CHIP 100K 5%	1/10W
R980	1-216-797-11	METAL CHIP 10 5%	1/10W
R981	1-216-805-11	METAL CHIP 47 5%	1/10W
R982	1-216-815-11	METAL CHIP 330 5%	1/10W
R983	1-216-815-11	METAL CHIP 330 5%	1/10W
R991	1-216-813-11	METAL CHIP 220 5%	1/10W

Ref. No.	Part No.	Description	Remark
R992	1-216-863-11	METAL CHIP 3.3M 5%	1/10W
R993	1-216-863-11	METAL CHIP 3.3M 5%	1/10W
R994	1-216-863-11	METAL CHIP 3.3M 5%	1/10W
R995	1-216-822-11	METAL CHIP 1.2K 5%	1/10W
R997	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R998	1-216-845-11	METAL CHIP 100K 5%	1/10W
R999	1-216-833-11	METAL CHIP 10K 5%	1/10W
< SWITCH >			
S301	1-786-637-11	SWITCH, SLIDE (REC/PB)	
S401	1-771-410-21	SWITCH, TACTILE (REPEAT/SLEEP, FM MODE/OSC)	
S402	1-771-410-21	SWITCH, TACTILE (MEMORY/■)	
S403	1-771-410-21	SWITCH, TACTILE (TUNE + ►►)	
S404	1-771-410-21	SWITCH, TACTILE (TUNE – ◀◀)	
S405	1-771-410-21	SWITCH, TACTILE (►◄/PRESET)	
S406	1-771-410-21	SWITCH, TACTILE (T-BASS)	
S407	1-771-410-21	SWITCH, TACTILE (HI SPEED DUB, FOLDER/FILE)	
S408	1-771-410-21	SWITCH, TACTILE (POWER)	
S409	1-771-410-21	SWITCH, TACTILE (FUNCTION)	
S410	1-771-410-21	SWITCH, TACTILE (BAND/PBC)	
S411	1-771-410-21	SWITCH, TACTILE (VOLUME v)	
S412	1-771-410-21	SWITCH, TACTILE (VOLUME ^)	
S413	1-771-410-21	SWITCH, TACTILE (EQUALIZER)	
S414	1-771-410-21	SWITCH, TACTILE (KEY/CONTROL)	
S415	1-771-410-21	SWITCH, TACTILE (KARAOKE)	
S501	1-786-114-11	SWITCH, SLIDE (NTSC/PAL)	
< VARIABLE RESISTOR >			
SFR801	1-230-497-11	RES, ADJ, CARBON 22K	
< TRIMMER >			
TC001	1-141-227-00	CAP, TRIMMER 20PF	
TC061	1-141-245-00	CAP, TRIMMER 30PF	
TC062	1-141-245-00	CAP, TRIMMER 30PF	
< VIBRATOR >			
X001	1-760-549-31	VIBRATOR, CRYSTAL (4.5MHz)	
X801	1-795-915-11	VIBRATOR, CRYSTAL (32.768kHz)	
X802	1-813-175-11	VIBRATOR, CERAMIC (4.19MHz)	

*	A-4541-650-A	POWER BOARD, COMPLETE	

	1-533-233-31	HOLDER, FUSE	
	3-260-100-01	SPRING (B), BATTERY	
< CAPACITOR >			
C901	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
C902	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
C903	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
C904	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
< DIODE >			
△ D901	8-719-046-07	DIODE 2A02M	
△ D902	8-719-046-07	DIODE 2A02M	
△ D903	8-719-046-07	DIODE 2A02M	

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POWER

VCD

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
△ D904	8-719-046-07	DIODE 2A02M		C1052	1-162-962-11	CERAMIC CHIP 470PF 10%	50V
		< AC INLET >		C1053	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
△ J901	1-817-432-11	INLET (PSE27), AC (AC ~)		C1054	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
*****				C1055	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
				C1056	1-164-156-11	CERAMIC CHIP 0.1uF	25V
				C1057	1-162-960-11	CERAMIC CHIP 220PF 10%	50V
				C1058	1-119-774-11	ELECT 100uF 20%	16V
				C1059	1-119-774-11	ELECT 100uF 20%	16V
				C1060	1-126-960-11	ELECT 1uF 20%	50V
				C1061	1-119-774-11	ELECT 100uF 20%	16V
				C1062	1-119-774-11	ELECT 100uF 20%	16V
				C1063	1-119-774-11	ELECT 100uF 20%	16V
				C1064	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
				C1065	1-164-156-11	CERAMIC CHIP 0.1uF	25V
				C1067	1-162-918-11	CERAMIC CHIP 18PF 5%	50V
				C1068	1-162-918-11	CERAMIC CHIP 18PF 5%	50V
				C1069	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V
				C1070	1-119-774-11	ELECT 100uF 20%	16V
				C1072	1-126-947-11	ELECT 47uF 20%	16V
				C1073	1-126-947-11	ELECT 47uF 20%	16V
				C1074	1-126-964-11	ELECT 10uF 20%	50V
				C1075	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
				C1076	1-119-774-11	ELECT 100uF 20%	16V
				C1077	1-119-774-11	ELECT 100uF 20%	16V
				C1078	1-115-156-11	CERAMIC CHIP 1uF	10V
				C1080	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
				C1081	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
				C1082	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
				C1083	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
				< CONNECTOR >			
				CN1001	1-779-553-21	CONNECTOR, FFC (LIF(NON-ZIF)) 16P	
				CN1002	1-770-516-31	CONNECTOR, FFC 8P	
				CN1003	1-779-551-21	CONNECTOR, FFC (LIF(NON-ZIF)) 14P	
				< DIODE >			
				D1002	8-719-049-10	DIODE 1SS374-TE85L	
				< IC >			
				IC1001	8-752-408-73	IC CXD3068Q	
				* IC1002	8-752-083-16	IC CXA2550N	
				* IC1003	8-759-455-91	IC BA6392FP-E2	
				IC1004	8-759-184-64	IC TC4W66FU	
				IC1005	8-759-184-64	IC TC4W66FU	
				IC1006	6-705-494-01	IC ES3890FF	
				IC1007	6-804-360-01	IC HT27LC020-A2	
				IC1009	8-759-564-30	IC MSM51V18165B-60TSKR1	
				IC1010	8-759-058-64	IC TC7S32FU(TE85R)	
				IC1011	8-759-241-27	IC TC74HCT273AF	
				IC1012	6-703-704-01	IC AK4381VT-E2	
				IC1013	8-759-653-98	IC TC7WT126FU(TE12R)	
				< FERRITE BEAD >			
				L1001	1-469-365-21	INDUCTOR, FERRITE BEAD	
				L1002	1-469-365-21	INDUCTOR, FERRITE BEAD	
				L1003	1-469-365-21	INDUCTOR, FERRITE BEAD	
				L1004	1-469-365-21	INDUCTOR, FERRITE BEAD	
				L1007	1-469-365-21	INDUCTOR, FERRITE BEAD	

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

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
L1008	1-410-993-42	INDUCTOR 1uH				R1027	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1009	1-410-997-42	INDUCTOR 2.2uH				R1028	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1010	1-410-989-11	INDUCTOR 0.47uH				R1029	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1011	1-469-365-21	INDUCTOR, FERRITE BEAD				R1030	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1012	1-469-365-21	INDUCTOR, FERRITE BEAD				R1031	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1013	1-216-295-11	SHORT CHIP 0				R1032	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1014	1-216-295-11	SHORT CHIP 0				R1033	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1015	1-216-295-11	SHORT CHIP 0				R1034	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1016	1-216-295-11	SHORT CHIP 0				R1035	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1017	1-216-295-11	SHORT CHIP 0				R1036	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1018	1-469-365-21	INDUCTOR, FERRITE BEAD				R1037	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1025	1-543-958-22	BEAD, FERRITE (CHIP)				R1038	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1026	1-543-958-22	BEAD, FERRITE (CHIP)				R1039	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1027	1-543-958-22	BEAD, FERRITE (CHIP)				R1040	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1028	1-543-958-22	BEAD, FERRITE (CHIP)				R1041	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1029	1-543-958-22	BEAD, FERRITE (CHIP)				R1042	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1030	1-543-958-22	BEAD, FERRITE (CHIP)				R1043	1-216-837-11	METAL CHIP 22K 5%		1/10W	
L1031	1-543-958-22	BEAD, FERRITE (CHIP)				R1044	1-216-837-11	METAL CHIP 22K 5%		1/10W	
L1032	1-543-958-22	BEAD, FERRITE (CHIP)				R1045	1-216-837-11	METAL CHIP 22K 5%		1/10W	
L1033	1-543-958-22	BEAD, FERRITE (CHIP)				R1046	1-216-837-11	METAL CHIP 22K 5%		1/10W	
L1034	1-543-958-22	BEAD, FERRITE (CHIP)				R1047	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1035	1-543-958-22	BEAD, FERRITE (CHIP)				R1048	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1036	1-400-697-31	BEAD, FERRITE (CHIP)				R1049	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1037	1-400-697-31	BEAD, FERRITE (CHIP)				R1050	1-216-833-11	METAL CHIP 10K 5%		1/10W	
L1038	1-400-697-31	BEAD, FERRITE (CHIP)				R1051	1-216-833-11	METAL CHIP 10K 5%		1/10W	
< TRANSISTOR >						R1052	1-216-817-11	METAL CHIP 470 5%		1/10W	
Q1001	8-729-037-02	TRANSISTOR KTA1266Y-AT				R1053	1-216-833-11	METAL CHIP 10K 5%		1/10W	
Q1002	8-729-230-49	TRANSISTOR 2SC2712-YG				R1054	1-216-837-11	METAL CHIP 22K 5%		1/10W	
Q1003	8-729-230-49	TRANSISTOR 2SC2712-YG				R1055	1-216-864-11	METAL CHIP 0 5%		1/10W	
< RESISTOR >						R1056	1-216-864-11	METAL CHIP 0 5%		1/10W	
R1001	1-216-853-11	METAL CHIP 470K 5%			1/10W	R1057	1-216-837-11	METAL CHIP 22K 5%		1/10W	
R1002	1-216-853-11	METAL CHIP 470K 5%			1/10W	R1058	1-216-833-11	METAL CHIP 10K 5%		1/10W	
R1003	1-216-857-11	METAL CHIP 1M 5%			1/10W	R1059	1-216-833-11	METAL CHIP 10K 5%		1/10W	
R1004	1-216-857-11	METAL CHIP 1M 5%			1/10W	R1060	1-216-833-11	METAL CHIP 10K 5%		1/10W	
R1005	1-216-857-11	METAL CHIP 1M 5%			1/10W	R1061	1-216-833-11	METAL CHIP 10K 5%		1/10W	
R1006	1-216-849-11	METAL CHIP 220K 5%			1/10W	R1063	1-216-829-11	METAL CHIP 4.7K 5%		1/10W	
R1007	1-216-849-11	METAL CHIP 220K 5%			1/10W	R1064	1-216-829-11	METAL CHIP 4.7K 5%		1/10W	
R1008	1-216-821-11	METAL CHIP 1K 5%			1/10W	R1065	1-216-829-11	METAL CHIP 4.7K 5%		1/10W	
R1009	1-216-821-11	METAL CHIP 1K 5%			1/10W	R1066	1-216-829-11	METAL CHIP 4.7K 5%		1/10W	
R1010	1-216-821-11	METAL CHIP 1K 5%			1/10W	R1067	1-216-829-11	METAL CHIP 4.7K 5%		1/10W	
R1011	1-216-821-11	METAL CHIP 1K 5%			1/10W	R1070	1-216-829-11	METAL CHIP 4.7K 5%		1/10W	
R1012	1-216-821-11	METAL CHIP 1K 5%			1/10W	R1071	1-216-825-11	METAL CHIP 2.2K 5%		1/10W	
R1013	1-216-821-11	METAL CHIP 1K 5%			1/10W	R1072	1-216-864-11	METAL CHIP 0 5%		1/10W	
R1014	1-216-821-11	METAL CHIP 1K 5%			1/10W	R1073	1-216-825-11	METAL CHIP 2.2K 5%		1/10W	
R1015	1-216-833-11	METAL CHIP 10K 5%			1/10W	R1074	1-216-825-11	METAL CHIP 2.2K 5%		1/10W	
R1016	1-216-833-11	METAL CHIP 10K 5%			1/10W	R1075	1-216-825-11	METAL CHIP 2.2K 5%		1/10W	
R1017	1-216-833-11	METAL CHIP 10K 5%			1/10W	R1076	1-216-821-11	METAL CHIP 1K 5%		1/10W	
R1018	1-216-829-11	METAL CHIP 4.7K 5%			1/10W	R1077	1-216-845-11	METAL CHIP 100K 5%		1/10W	
R1019	1-216-829-11	METAL CHIP 4.7K 5%			1/10W	R1078	1-216-845-11	METAL CHIP 100K 5%		1/10W	
R1020	1-216-833-11	METAL CHIP 10K 5%			1/10W	R1079	1-216-845-11	METAL CHIP 100K 5%		1/10W	
R1021	1-216-833-11	METAL CHIP 10K 5%			1/10W	R1080	1-216-845-11	METAL CHIP 100K 5%		1/10W	
R1022	1-216-833-11	METAL CHIP 10K 5%			1/10W	R1081	1-216-833-11	METAL CHIP 10K 5%		1/10W	
R1023	1-216-833-11	METAL CHIP 10K 5%			1/10W	R1082	1-216-813-11	METAL CHIP 220 5%		1/10W	
R1024	1-216-833-11	METAL CHIP 10K 5%			1/10W	R1083	1-216-841-11	METAL CHIP 47K 5%		1/10W	
R1025	1-216-833-11	METAL CHIP 10K 5%			1/10W	R1084	1-216-841-11	METAL CHIP 47K 5%		1/10W	
R1026	1-216-833-11	METAL CHIP 10K 5%			1/10W	R1085	1-216-841-11	METAL CHIP 47K 5%		1/10W	
						R1086	1-216-841-11	METAL CHIP 47K 5%		1/10W	
						R1087	1-216-841-11	METAL CHIP 47K 5%		1/10W	

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R1088	1-216-841-11	METAL CHIP	47K	5%	1/10W	R1148	1-216-809-11	METAL CHIP	100	5%	1/10W
R1089	1-216-841-11	METAL CHIP	47K	5%	1/10W	R1149	1-216-809-11	METAL CHIP	100	5%	1/10W
R1090	1-216-797-11	METAL CHIP	10	5%	1/10W	R1150	1-216-809-11	METAL CHIP	100	5%	1/10W
R1091	1-216-797-11	METAL CHIP	10	5%	1/10W	R1151	1-216-809-11	METAL CHIP	100	5%	1/10W
R1092	1-216-797-11	METAL CHIP	10	5%	1/10W	R1152	1-216-809-11	METAL CHIP	100	5%	1/10W
R1093	1-216-809-11	METAL CHIP	100	5%	1/10W	R1153	1-216-809-11	METAL CHIP	100	5%	1/10W
R1094	1-216-809-11	METAL CHIP	100	5%	1/10W	R1154	1-216-809-11	METAL CHIP	100	5%	1/10W
R1095	1-216-809-11	METAL CHIP	100	5%	1/10W	R1155	1-216-809-11	METAL CHIP	100	5%	1/10W
R1096	1-216-809-11	METAL CHIP	100	5%	1/10W	R1156	1-216-809-11	METAL CHIP	100	5%	1/10W
R1097	1-216-809-11	METAL CHIP	100	5%	1/10W	R1157	1-216-809-11	METAL CHIP	100	5%	1/10W
R1098	1-216-809-11	METAL CHIP	100	5%	1/10W	R1159	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1099	1-216-809-11	METAL CHIP	100	5%	1/10W	R1161	1-216-813-11	METAL CHIP	220	5%	1/10W
R1100	1-216-809-11	METAL CHIP	100	5%	1/10W	R1162	1-216-805-11	METAL CHIP	47	5%	1/10W
R1101	1-216-809-11	METAL CHIP	100	5%	1/10W	R1163	1-216-801-11	METAL CHIP	22	5%	1/10W
R1102	1-216-809-11	METAL CHIP	100	5%	1/10W	R1170	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1103	1-216-809-11	METAL CHIP	100	5%	1/10W	R1171	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1104	1-216-809-11	METAL CHIP	100	5%	1/10W	R1172	1-216-864-11	METAL CHIP	0	5%	1/10W
R1105	1-216-809-11	METAL CHIP	100	5%	1/10W	R1173	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1106	1-216-809-11	METAL CHIP	100	5%	1/10W	R1174	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1107	1-216-809-11	METAL CHIP	100	5%	1/10W	R1177	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1108	1-216-809-11	METAL CHIP	100	5%	1/10W	R1178	1-216-817-11	METAL CHIP	470	5%	1/10W
R1109	1-216-809-11	METAL CHIP	100	5%	1/10W	R1179	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1110	1-216-809-11	METAL CHIP	100	5%	1/10W	R1180	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1111	1-216-809-11	METAL CHIP	100	5%	1/10W	R1181	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1112	1-216-809-11	METAL CHIP	100	5%	1/10W	R1182	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1113	1-216-809-11	METAL CHIP	100	5%	1/10W	R1183	1-216-864-11	METAL CHIP	0	5%	1/10W
R1114	1-216-809-11	METAL CHIP	100	5%	1/10W	R1184	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1115	1-216-809-11	METAL CHIP	100	5%	1/10W	R1185	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1116	1-216-809-11	METAL CHIP	100	5%	1/10W	R1186	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1117	1-216-809-11	METAL CHIP	100	5%	1/10W	R1187	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1118	1-216-809-11	METAL CHIP	100	5%	1/10W			< SWITCH >			
R1119	1-216-809-11	METAL CHIP	100	5%	1/10W						
R1120	1-216-809-11	METAL CHIP	100	5%	1/10W	SW1001	1-571-936-11	SWITCH, LEAF (STOP)			
R1121	1-216-809-11	METAL CHIP	100	5%	1/10W			< VIBRATOR >			
R1122	1-216-809-11	METAL CHIP	100	5%	1/10W						
R1123	1-216-809-11	METAL CHIP	100	5%	1/10W	X1001	1-781-801-21	VIBRATOR, CERAMIC (16.9344MHz)			
R1124	1-216-809-11	METAL CHIP	100	5%	1/10W	X1002	1-781-586-11	VIBRATOR, CRYSTAL (27MHz)			
R1125	1-216-809-11	METAL CHIP	100	5%	1/10W	*****					
R1126	1-216-833-11	METAL CHIP	10K	5%	1/10W			MISCELLANEOUS			
R1128	1-216-809-11	METAL CHIP	100	5%	1/10W			*****			
R1129	1-216-809-11	METAL CHIP	100	5%	1/10W						
R1130	1-216-809-11	METAL CHIP	100	5%	1/10W	156	1-827-832-11	CABLE, FFC FLAT 8P			
R1131	1-216-809-11	METAL CHIP	100	5%	1/10W	158	1-827-831-11	CABLE, FFC FLAT 14P			
R1132	1-216-809-11	METAL CHIP	100	5%	1/10W	159	1-757-689-11	CABLE, FLEXIBLE FLAT (16 CORE)			
R1133	1-216-809-11	METAL CHIP	100	5%	1/10W	165	1-471-248-11	MAGNET			
R1134	1-216-809-11	METAL CHIP	100	5%	1/10W	△ 253	8-820-161-02	OPTICAL PICK-UP (KSS-213R/C2RP)			
R1135	1-216-809-11	METAL CHIP	100	5%	1/10W	256	X-2162-707-2	CHASSIS ASSY (RDP) (RP), MOTOR (SPINDLE)			
R1136	1-216-809-11	METAL CHIP	100	5%	1/10W			(including M1001)			
R1137	1-216-809-11	METAL CHIP	100	5%	1/10W	303	1-690-969-11	CORD, SPEAKER CONNECTION			
R1138	1-216-809-11	METAL CHIP	100	5%	1/10W	ANT001	1-754-309-11	ANTENNA, ROD (FM/SW)			
R1139	1-216-809-11	METAL CHIP	100	5%	1/10W	△ F901	1-533-470-12	FUSE, GLASS TUBE (DIA.5) (3.15A/250V)			
R1140	1-216-809-11	METAL CHIP	100	5%	1/10W	M1002	X-2162-712-2	GEAR ASSY (R) (RP), MOTOR (SLED)			
R1141	1-216-809-11	METAL CHIP	100	5%	1/10W	S801	1-771-429-11	SWITCH, PUSH (1 KEY) (CD OPEN)			
R1142	1-216-809-11	METAL CHIP	100	5%	1/10W	△ S901	1-786-674-11	SWITCH (AC VOLTAGE)			
R1143	1-216-809-11	METAL CHIP	100	5%	1/10W	SP301	1-825-641-11	SPEAKER (L-CH)			
						SP302	1-825-641-11	SPEAKER (R-CH)			
R1144	1-216-809-11	METAL CHIP	100	5%	1/10W	△ T901	1-443-145-11	TRANSFORMER, POWER			
R1145	1-216-809-11	METAL CHIP	100	5%	1/10W	*****					
R1146	1-216-809-11	METAL CHIP	100	5%	1/10W						
R1147	1-216-809-11	METAL CHIP	100	5%	1/10W						

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

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
		ACCESSORIES *****	
⚠	1-769-412-21	CORD, POWER	
	3-260-284-11	MANUAL, INSTRUCTION (ENGLISH,ARABIC)	
	A-3172-176-A	REMOTE COMMANDER (RM-Z1A002)	

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

MEMO

REVISION HISTORY

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