

HCD-GZR7D/GZR8D/ GZR9D

SERVICE MANUAL

Ver. 1.1 2008.07



Photo: HCD-GZR8D

- HCD-GZR7D/GZR8D/GZR9D are the tuner, deck, DVD and amplifier section in MHC-GZR7D/GZR8D/GZR9D.

E Model
HCD-GZR7D/GZR8D/GZR9D
Australian Model
HCD-GZR9D
Russian Model
HCD-GZR7D/GZR9D

DVD Section	Model Name Using Similar Mechanism	HCD-GNZ777D/GNZ888D
	DVD Mechanism Type	CDM74HF-DVBU101//C
	Optical Pick-up Name	KHM-313CAB/C2RP
Tape Deck Section	Model Name Using Similar Machanism	HCD-GNZ777D/GNZ888D

SPECIFICATIONS

Amplifier Section

The following measured at AC 230 V, 50/60 Hz (Russian model)
The following measured at AC 127, 220, 240 V, 50/60 Hz (Saudi Arabian model)
The following measured at AC 120, 220, 240 V, 50/60 Hz (Other models)

MHC-GZR9D

Power output (rated): 100 W + 100 W (6 Ω at 1 kHz, 1% THD)
RMS output power (reference)
Front speaker: 180 W + 180 W (per channel at 6 Ω, 1 kHz, 10% THD)
Center speaker: 60 W (6 Ω at 1 kHz, 10% THD)
Surround speaker: 60 W + 60 W (per channel at 6 Ω, 1 kHz, 10% THD)
Subwoofer: 180 W (6 Ω at 80 Hz, 10% THD)

MHC-GZR8D

Power output (rated): 100 W + 100 W (6 Ω at 1 kHz, 1% THD)
RMS output power (reference)
Front speaker: 180 W + 180 W (per channel at 6 Ω, 1 kHz, 10% THD)
Center speaker: 60 W (6 Ω at 1 kHz, 10% THD)
Surround speaker: 60 W + 60 W (per channel at 6 Ω, 1 kHz, 10% THD)

MHC-GZR7D

Power output (rated): 100 W + 100 W (6 Ω at 1 kHz, 1% THD)
RMS output power (reference):
180 W + 180 W (per channel at 6 Ω, 1 kHz, 10% THD)

Inputs

VIDEO/SAT VIDEO IN (phono jack):
1 V_{p-p}, 75 ohms
VIDEO/SAT AUDIO IN L/R (phono jacks):
voltage 250/450 mV, impedance 47 kilohms
MIC 1/MIC 2 (phone jacks):
sensitivity 1 mV, impedance 10 kilohms

– Continued on next page –

DVD DECK RECEIVER

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Sony Corporation
Audio&Video Business Group
Published by Sony Techno Create Corporation

SONY®

HCD-GZR7D/GZR8D/GZR9D

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Outputs

VIDEO OUT (phono jack):

max. output level 1 V_{p-p}, unbalanced, Sync negative, load impedance 75 ohms

S VIDEO OUT (4-pin/mini-DIN jack):

Y: 1 V_{p-p}, unbalanced, Sync negative,
C: 0.286 V_{p-p}, load impedance 75 ohms

COMPONENT VIDEO OUT:

Y: 1 V_{p-p}, 75 ohms
PB/CB: 0.7 V_{p-p}, 75 ohms
PR/CR: 0.7 V_{p-p}, 75 ohms

DVD DIGITAL OUT (MHC-GZR7D only)

(Square optical connector jack, rear panel):

Wavelength 660 nm

PHONES (stereo mini jack):

accepts headphones of 8 ohms or more

SUBWOOFER OUT (MHC-GZR8D/GZR7D only):

Voltage 1 V, impedance 1 kilohms

FRONT SPEAKER:

MHC-GZR9D: Use only the supplied speaker SS-GZR9D.

MHC-GZR8D/GZR7D:

Use only the supplied speaker SS-GZR8D.

SURROUND SPEAKER (MHC-GZR9D/GZR8D only):

Use only the supplied speaker SS-RSX9D.

CENTER SPEAKER (MHC-GZR9D/GZR8D only):

Use only the supplied speaker SS-CTX9D.

SUBWOOFER (MHC-GZR9D only):

Use only the supplied subwoofer SS-WGV9D.

USB section

Supported bit rate MP3 (MPEG 1 Audio Layer-3): 32 – 320 kbps

WMA: 48 – 192 kbps

AAC: 48 – 320 kbps

Sampling frequencies

MP3 (MPEG 1 Audio Layer-3): 32/44.1/48 kHz

WMA: 44.1 kHz

AAC: 44.1 kHz

⚡ (USB) port:

Maximum current: 500 mA

Disc player section

System: Compact disc and digital audio and video system

Laser Diode Properties

Emission duration: Continuous Laser Output*:

Less than 44.6μW

*This output is the value measurement at a distance of 200mm from the objective lens surface on the Optical Pick-up Block with 7mm aperture.

Frequency response DVD (PCM 48 kHz): 2 Hz – 22 kHz (±1 dB)

CD: 2 Hz – 20 kHz (±0.5 dB)

Video color system format

Russian model: PAL

Latin American model: NTSC

Other models: NTSC and PAL

Tape deck section

Recording system: 4-track 2-channel, stereo

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range: 87.5 – 108.0 MHz (50 kHz step)

Antenna: FM lead antenna

Antenna terminals: 75 Ω unbalanced

Intermediate frequency:

10.7 MHz

AM tuner section

Tuning range:

Russian and Saudi Arabian models:

531 – 1,602 kHz (9 kHz step)

Latin American model:

530 – 1,710 kHz (with 10 kHz tuning interval)

531 – 1,710 kHz (with 9 kHz tuning interval)

Australian model:

531 – 1,710 kHz (with 9 kHz tuning interval)

530 – 1,710 kHz (with 10 kHz tuning interval)

Other models:

531 – 1,602 kHz (with 9 kHz tuning interval)

530 – 1,610 kHz (with 10 kHz tuning interval)

Antenna:

AM loop antenna

Antenna terminals: External antenna terminal

Intermediate frequency:

450 kHz

General

Power requirements

Russian model: AC 230 V, 50/60Hz

Australian model: AC 230 – 240 V, 50/60 Hz

Thai model: AC 220 V, 50/60 Hz

Saudi Arabian model: AC 120 – 127, 220, 230–240 V, 50/60 Hz,

adjustable with voltage selector

Other models: AC 120, 220, 230 – 240 V, 50/60 Hz,

adjustable with voltage selector

Power consumption

MHC-GZR9D: 270 W

(Russian model: 0.5 W in Power Saving Model)

MHC-GZR8D: 240 W

MHC-GZR7D: 170 W

(Russian model: 0.5 W in Power Saving Model)

Dimensions (w/h/d) (excl. speakers)

MHC-GZR9D: Approx. 280 × 325 × 415 mm

MHC-GZR8D/GZR7D: Approx. 280 × 325 × 382 mm

Mass (excl. speakers)

MHC-GZR9D: Approx. 12 kg

MHC-GZR8D: Approx. 11.5 kg

MHC-GZR7D: Approx. 10.5 kg

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONET WARNING!

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

NOTES ON CHIP COMPONENT REPLACEMENT

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

FLEXIBLE CIRCUIT BOARD REPAIRING

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

UNLEADED SOLDER

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

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

LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

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

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

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

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

NOTES ON LASER DIODE EMISSION CHECK

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

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



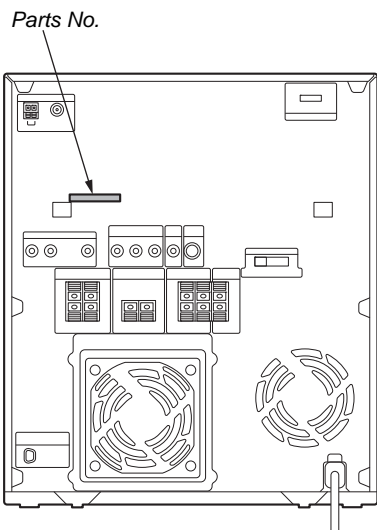
This appliance is classified as a CLASS 1 LASER product. This marking is located on the rear exterior.

HCD-GZR7D/GZR8D/GZR9D

Ver. 1.1

MODEL IDENTIFICATION

– Back Panel –



Model	Parts No.
GZR9D: RU	3-285-875-0□
GZR9D: E3, E15	3-285-875-1□
GZR9D: EA	3-285-875-2□
GZR9D: SP	3-285-875-4□
GZR9D: PH	3-285-875-6□
GZR9D: E2	3-285-875-7□
GZR9D: AUS	3-285-875-8□
GZR9D: AR	3-285-875-9□
GZR8D: E3, E15	3-291-798-1□
GZR8D: EA	3-291-798-2□
GZR8D: E12	3-291-798-3□
GZR8D: SP	3-291-798-4□
GZR8D: TH	3-291-798-5□
GZR8D: PH	3-291-798-6□
GZR7D: RU	3-291-799-0□
GZR7D: E3, E15	3-291-799-1□
GZR7D: EA	3-291-799-2□
GZR7D: E12	3-291-799-3□
GZR7D: SP	3-291-799-4□
GZR7D: TH	3-291-799-5□
GZR7D: PH	3-291-799-6□

• Abbreviation

- RU : Russian model
- E3 : 240V AC area in E model
- E15 : Iran model
- EA : Saudi Arabia model
- SP : Singapore model
- TH : Thai model
- PH : Philippines model
- E2 : 120V AC area in E model
- AUS : Australian model
- AR : Argentina model
- E12 : 220 – 240V AC area in E model

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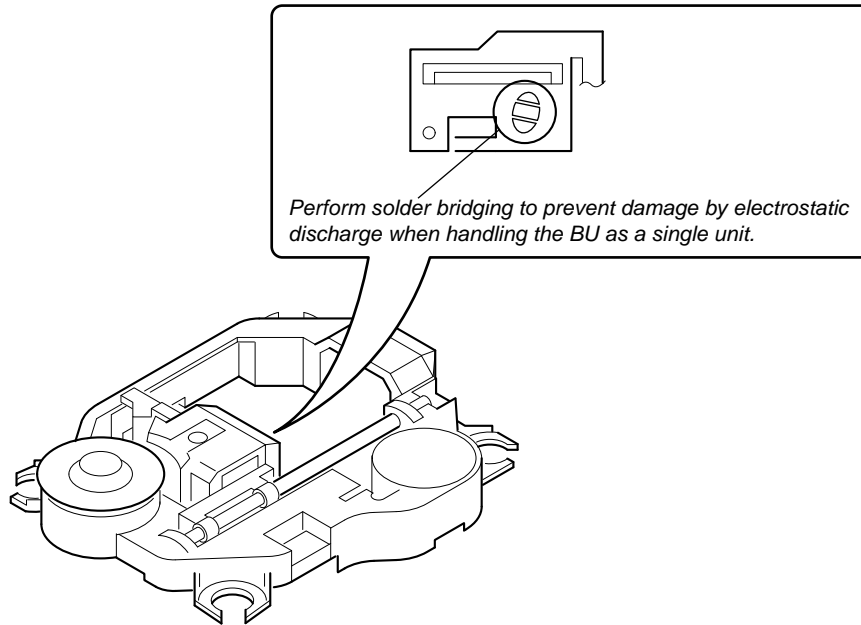
SECTION 1 SERVICING NOTES

Notes on Disconnecting Between the OP Section (DVBU101) and the DMB18 Board

Note: When disconnecting between the OP section (DVBU101) and the DMB18 board, be sure to make a solder bridge for electrostatic prevention as illustrated in the figure (before disconnection).

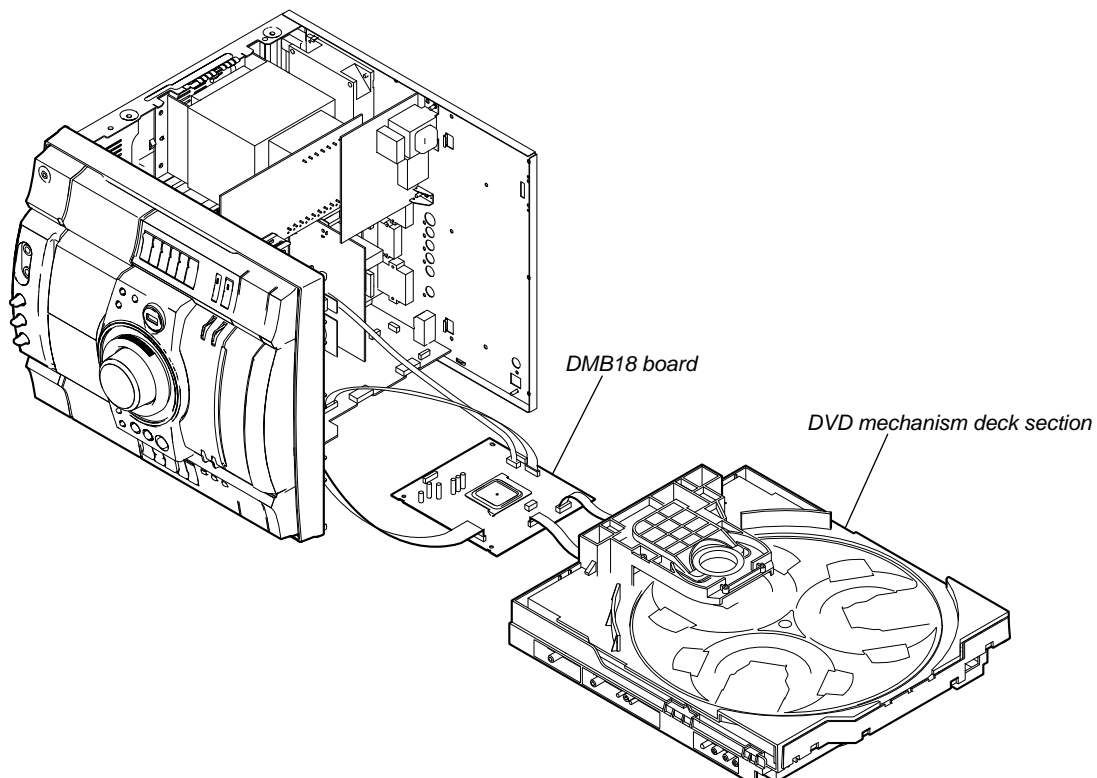
On the contrary, when installing the OP section, never remove the solder bridge until the OP section and the DMB18 board are connected.

Be sure to remove the solder bridge after the OP section and the DMB18 board have been connected.



Service Position for the DVD Mechanism Deck Section

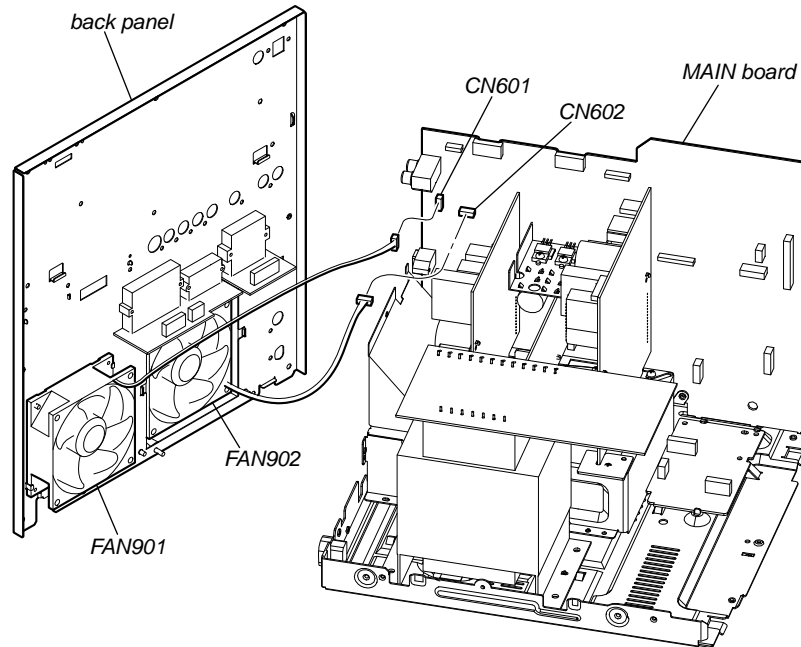
Refer to the figure given below when disassembling the DVD mechanism deck section.



Notes on Installing the Two Cooling Fans (FAN901 and FAN902) (HCD-GZR8D/GZR9D)

Note: The HCD-GZR8D/GZR9D has two cooling fans (FAN901 and FAN902) used. The connectors of these fans have the same color and the same number of pins.

When installing these fans, check the marking of CN601 and CN602 on the MAIN board and ensure that they are located correctly. The CN601 on the MAIN board is to be attached with the connector of FAN901 where as the CN602 is to be attached with the connector of FAN902.

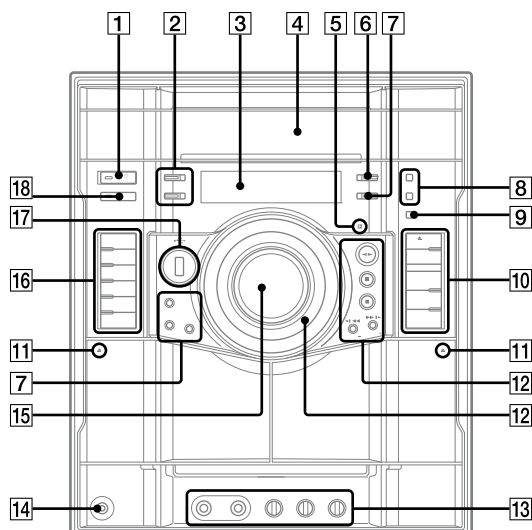


This section is extracted from instruction manual.

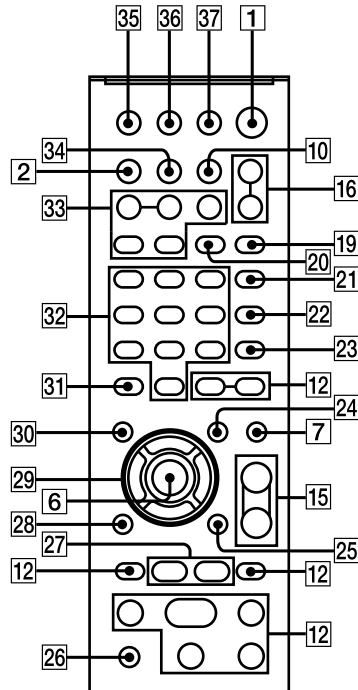
Guide to parts and controls

This manual mainly explains operations using the remote, but the same operations can also be performed using the buttons on the unit having the same or similar names.

Unit



Remote



1
I/⏻ (on/standby) (24, 79, 106, 129)
 Press to turn on or off the system.

Unit: STANDBY indicator (118)
 Lights up when the system is turned off.

Remote: TV I/⏻¹⁾ (on/standby) (29)
 Press to turn on or off the TV.

2
DISPLAY (27, 33, 73, 107, 108)
 Press to display the disc information or clock in the front panel display.

Unit: ILLUMINATION (108, 129)
 Press to change the illumination pattern around MASTER VOLUME **15**.

3
Display

4
Disc tray

5
Remote sensor

Continued

6

ENTER (28, 33, 34, 39, 44, 49, 53, 58, 59, 60, 63, 71, 74, 76, 79, 83, 87, 95, 102, 105, 129)

Press to enter the settings.

7

SOUND FIELD (95)

Press to select the sound field for the surround sound.

Unit: GROOVE (94)

Press to reinforce the bass.

Unit: PRESET EQ (94)

Press to select the sound effect.

Unit: EQ BAND/MEMORY (95)

Press to select the frequency band when adjusting the equalizer.

8

REC TO USB (79, 83)

Press to transfer music from a disc or record the sound from an analog audio source to the connected optional USB device.

Press to mark track numbers during recording.

REC TO TAPE (76)

Press to record on a tape.

9

OPTIONS (74, 75, 107, 116)

Press to enter the option menus.

10

Unit:  OPEN/CLOSE (38)

Press to load or eject a disc.

Unit: DISC SKIP/EX-CHANGE (38, 40)

Press to select a disc.

Press to exchange a disc while playing.

Remote: DISC SKIP (40, 79)

Press to select a disc.

Unit: DISC 1 – DISC 3 (40, 76, 79)

Press to select a disc.


Press to switch to the “DVD” function from other function.


11

 PUSH/PUSH  (74)


Press to insert or eject a tape.

12

Unit:  (play) (26, 38, 74, 87)

Remote:  (play) (38, 74, 87)

Press to start playback.

 (pause) (27, 39, 75)

Press to pause playback.

■ (stop) (39, 72, 75, 79)

Press to stop playback.

◀◀/▶▶ (rewind/fast forward)
(39, 75)

Press to find a point in a track, chapter or video file.

Unit: ◀▶ (39)

Remote: ◀◀ SLOW/ SLOW ▶▶ (39)

Press to watch the slow-motion play.

TUNING +/- (71, 72, 73)

Press to tune in the desired station.

Remote: 📁 +/- (36, 39)

Press to select a folder.

Unit: OPERATION DIAL (39, 72, 74, 76, 95, 107)

Turn to select a track, chapter or video file.

Turn to select the preset station.

Remote: PRESET +/- (72)

Press to select the preset station.

Remote: ◀◀/▶▶ (go backward/forward) (35, 37, 39, 74, 88)

Press to select a track, chapter or video file.

Remote: TV CH +/- ¹⁾ (29)

Press to change the TV channels.

13

MIC 1/MIC 2 jacks (77, 98)

Connect a microphone.

MIC 1 LEVEL/MIC 2 LEVEL (98)

Turn to adjust the microphone volume.

ECHO LEVEL (99)

Turn to adjust the echo level.

14

PHONES jack

Connect the headphones.

15

Unit: MASTER VOLUME (38, 99, 105, 108)

Turn to adjust the volume.

Remote: VOLUME +/- ²⁾ (38, 99, 105)

Press to adjust the volume.

Remote: TV VOL +/- ¹⁾²⁾ (29)

Press to adjust the TV volume.

Continued 

15^{GB}

16

Unit: DVD (26, 27, 34, 38, 76, 79, 98)

Press to select the "DVD" function.

Unit: USB (76, 81, 85, 98)

Press to select the "USB" function.

Unit: TAPE A/B (74, 75)

Press to select the "TAPE" function.

Press to select "TAPE A" or "TAPE B."

Unit: TUNER/BAND (71, 72)

Press to select the "TUNER" function.

Press to switch among FM and AM band.

Unit: DMPORT (116)

Press to select the "DMPORT" function.

Unit: VIDEO/SAT (116)

Press to select the "VIDEO" or "SAT" function.


Remote: FUNCTION +/- (27, 34, 38, 71, 74, 79, 83, 85, 98, 116)

Press to select the function.

17

 (USB) port (78, 83, 85)

Connect an optional USB device.

 (USB) indicator

Lights up in red when transferring or recording to the connected optional USB device or when erasing audio tracks or folders.

18 (MHC-GZR9D only)

SUBWOOFER (30)

Press to turn on or off the subwoofer.

SUBWOOFER indicator (30)

Lights up when the subwoofer is turned on.

19

PICTURE NAVI (54, 89)

Press to display the thumbnail pictures.

20

REPEAT/FM MODE (48, 73, 93)

Press to listen to a disc, an USB device, a single track or file repeatedly.

Press to select FM reception mode (monaural or stereo).

21

AUDIO (41, 99, 112)

Press to display the current audio signal on the TV screen.

22

SUBTITLE (40)

Press to switch the language of the subtitle (DVD VIDEO only).

D. TUNING (72)

Press to switch to the direct tuning mode.

23**ANGLE (40)**

Press to change the angle (DVD VIDEO with multi-angles only).

24**DVD/TUNER MENU (49, 52, 58, 71, 87)**

Press to display the menu items on the TV screen.

Press to preset the radio station.

25**DISPLAY (28, 35, 44, 49, 55, 59, 60, 63, 80, 87, 102, 112, 139)**

Press to display the Control Menu on the TV screen.

The Control Menu is displayed only when the "DVD" function or "USB" function is selected.

26**TV¹⁾ (29)**

Press to operate the TV functions.

27**STEP (39)**

Press to play one frame at a time when playback is paused.

ADVANCE (39, 53, 58, 87)

Press to advance the current scene during playback.

REPLAY (39, 53, 58, 87)

Press to replay the previous scene during playback.

28**RETURN (43, 53, 59, 81, 88)**

Press to return to the previous menu on the TV screen.

29**SELECT (28, 29, 44, 45, 49, 71, 80, 96, 105)**

Press to select the menu items.

30**DVD TOP MENU (49)**

Press to display the DVD title on the TV screen.

31**CLEAR (34, 36, 45, 51, 54, 70, 81, 89)**

Press to delete a pre-programmed track or file.

Press to erase audio tracks or folders from the connected optional USB device.

ENTER (29)

Press to enter a single digit or double digit number.

32**Numeric buttons²⁾ (29, 39, 49, 60, 65, 72)**

Press to select a track, chapter or video file.

Press to enter a password.

10/0¹⁾

Press to enter a double digit number.

Continued **17^{GB}**

33

KEY CONTROL **b/#** (101)

Press to change the key to suit your vocal range.

SCORE (103)

Press to start or stop calculating your vocal score.

KARAOKE MODE (99)

Press to select the Karaoke mode.

KARAOKE PON (101)

Press to activate the “Karaoke Pon” function.

34

TIME/TEXT (108, 110)

Press to change the information appearing in the front panel display or on-screen display.

35

SLEEP (36, 105)

Press to set the Sleep Timer.

TV INPUT¹⁾ (29)

Press to switch the input sources.

36

TIMER MENU (33, 105)

Press to set the clock and the timers.

37

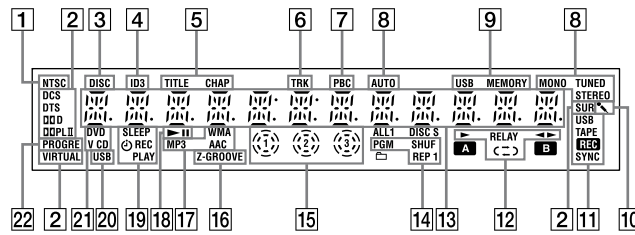
THEATRE SYNC (36)

Press to activate the “THEATRE SYNC” function.

¹⁾ This button is used to operate a Sony TV. For details, see “Operating a Sony TV” (page 29).

²⁾ The numeric button 5 **33**, TV VOL + **15**, VOLUME + **15** and **▷** **12** buttons on the remote have a tactile dot. Use the tactile dot as a reference when operating the system.

Display



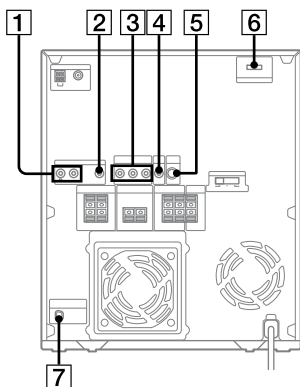
- 1 Lights up when the output video signal is NTSC. (27)
- 2 Indicates the current surround format.
- 3 Lights up when disc number is displayed.
- 4 Lights up when the ID3 tag information is displayed.
- 5 Lights up when the title or chapter number is displayed.
- 6 Lights up when the track information is displayed.
- 7 Lights up when playing VIDEO CD with PBC function. (42)
- 8 Lights up in "TUNER" function. (71)
- 9 Lights up when the USB device is recognized. (85)
- 10 Lights up when the Karaoke Mode is turned on. (98)
- 11 Lights up during transfer or recording. (75, 78, 83)
- 12 Indicates the tape playback direction. (74)
- 13 Displays the text information.
- 14 Indicates the selected play mode. (44)
- 15 Indicates the disc presence. (38)
- 16 Lights up when "GROOVE" or "Z-GROOVE" is turned on. (94)
- 17 Indicates the file format.
- 18 Indicates the playback status of the disc or USB device.
- 19 Lights up when the timer is set. (105)
- 20 Lights up when the "USB" function is selected. (85)
- 21 Indicates the type of disc being played back. (38)
- 22 Lights up when "PROGRESSIVE (COMPONENT OUT)" is set to "ON." (28)

Hooking up optional components

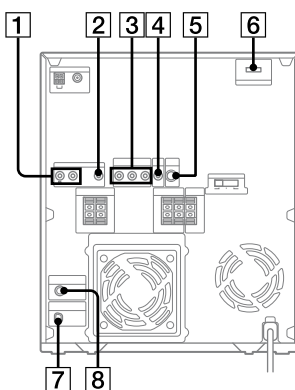
To enhance your system, you can connect optional components. Refer to the operating instructions provided with each component.

Rear panel

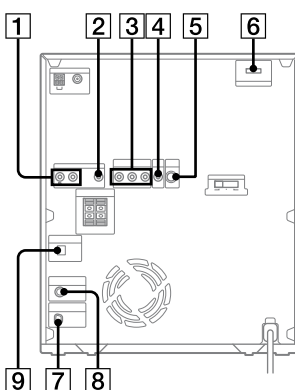
MHC-GZR9D



MHC-GZR8D



MHC-GZR7D



Other Operations

Continued

1 VIDEO/SAT AUDIO IN L/R jacks

Connect the audio output jacks of an optional component (such as VCR or satellite tuner).

2 VIDEO/SAT VIDEO IN jack

Connect the video output jack of an optional component (such as VCR or satellite tuner).

3 COMPONENT VIDEO OUT jacks

Connect the component video input jacks of the TV or projector. If your TV accept progressive format signals, you must use this connection and set "PROGRESSIVE (COMPONENT OUT)" to "ON" (page 28). You can enjoy higher quality video images.

Note

You cannot output the video signal from the VIDEO/SAT VIDEO IN jack through the COMPONENT VIDEO OUT jacks of this unit.

4 VIDEO OUT jack

Connect the video input jack of the TV or projector.

5 S VIDEO OUT jack

Connect the S Video input jack of the TV or projector. You can enjoy higher quality video images when you select the S VIDEO.

Note

You cannot output the video signal from the VIDEO/SAT VIDEO IN jack through the S VIDEO OUT jack of this unit.

6 DMPORT (DIGITAL MEDIA PORT)

Connect the DIGITAL MEDIA PORT adapter (not supplied). You need to connect the DIGITAL MEDIA PORT adapter to an optional audio device (portable audio player, etc.).

Notes

- Available DIGITAL MEDIA PORT adapters vary in each area.
- Do not connect an adapter other than the DIGITAL MEDIA PORT adapter.
- Do not connect or disconnect the DIGITAL MEDIA PORT adapter to/from the DMPORT while the system is on.
- When using a DIGITAL MEDIA PORT adapter (not supplied) that has video output function, connect the adapter directly to the TV.

7 D-LIGHT SYNC OUT jack
(Except for Russian and
Australian models)

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

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

Note

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

8 SUBWOOFER OUT jack (MHC-
GZR8D/GZR7D only)

Connect the audio input jack of an optional subwoofer*.

* SA-GNV111D is recommended. In some areas, the SA-GNV111D may not yet be available.

Note

The effect may be limited or noise may occur depending on the connected subwoofer or the type of music being played back.

9 DVD DIGITAL OUT jack (MHC-
GZR7D only)

Connect the digital optical input jack of an optional digital component (such as amplifier). You can enjoy 5.1 channel sound, if the connected amplifier equipped with Dolby Digital or DTS decoder.

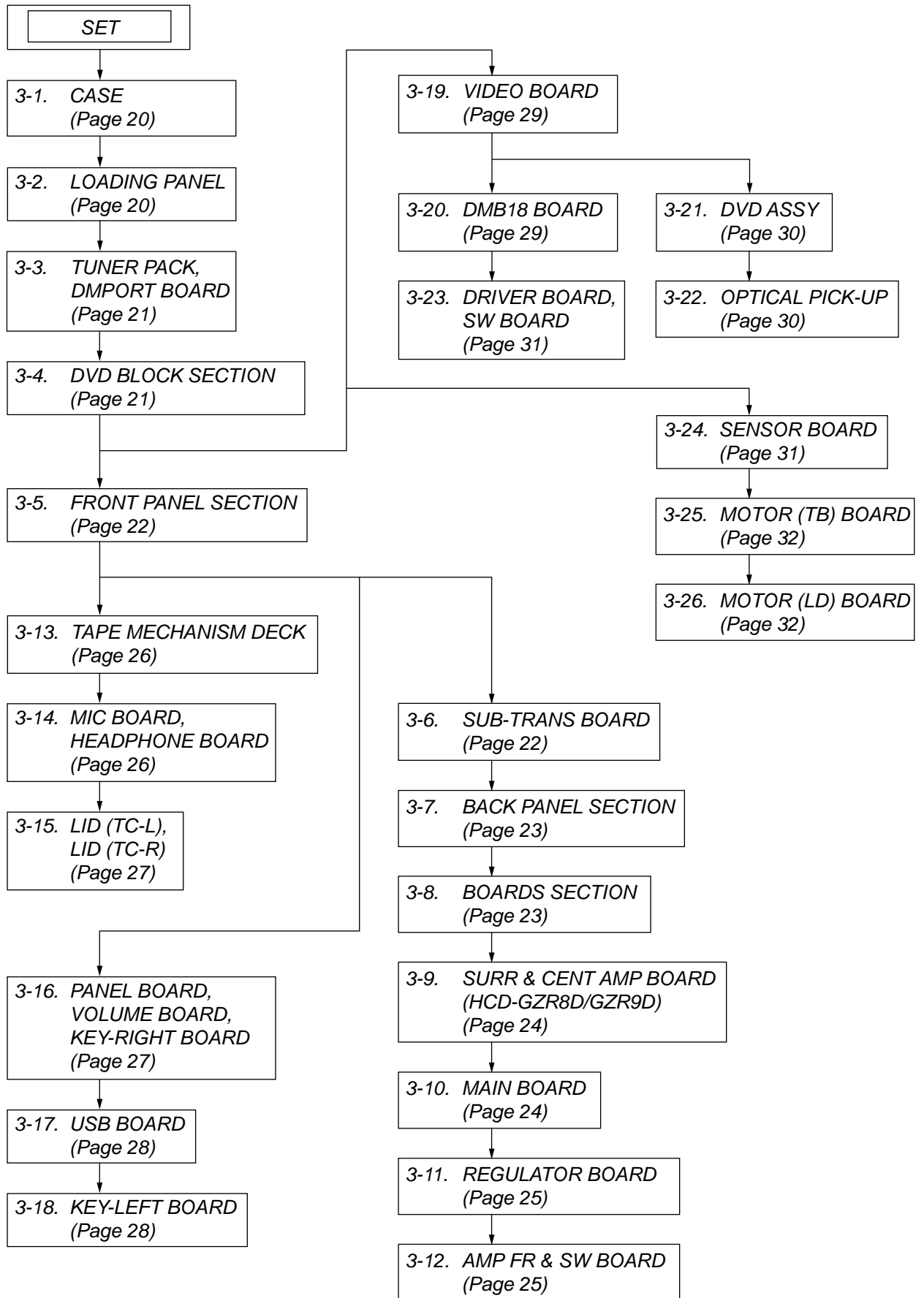
Notes

- Sound is output only when the system function is set to "DVD" or "USB."
- If you press AUDIO **21**, SOUND FIELD **7** or the buttons related to Karaoke Mode, or if you connect or disconnect microphones or headphones, the sound cuts off for a moment.

Continued 

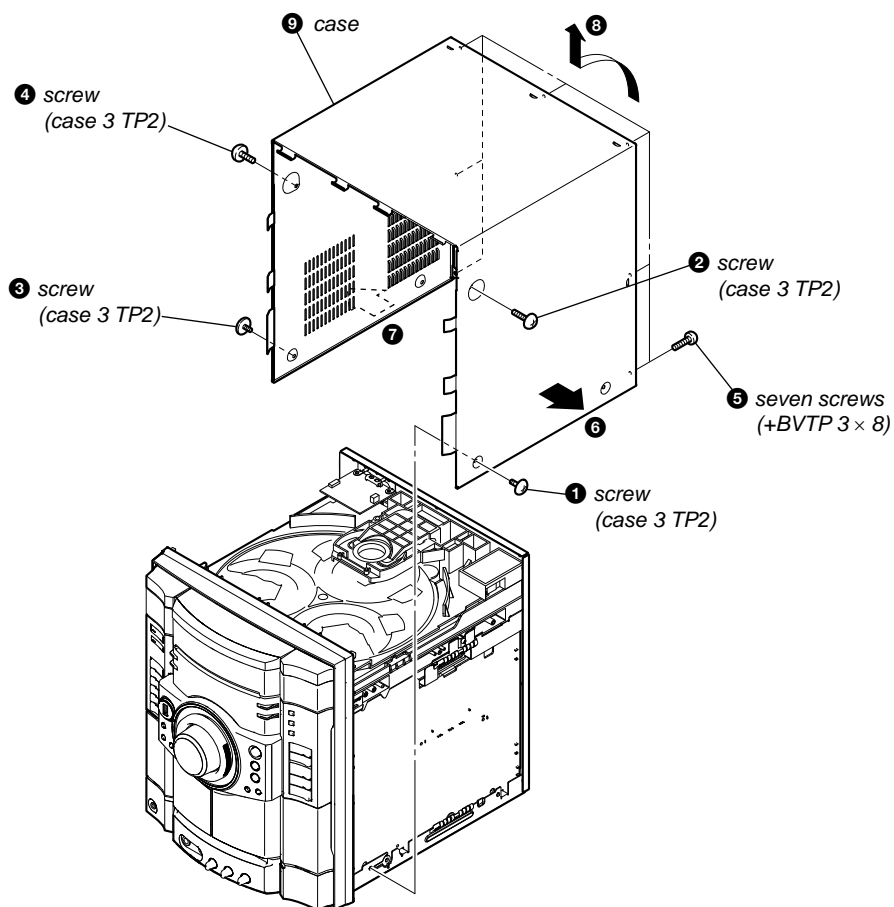
SECTION 3 DISASSEMBLY

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

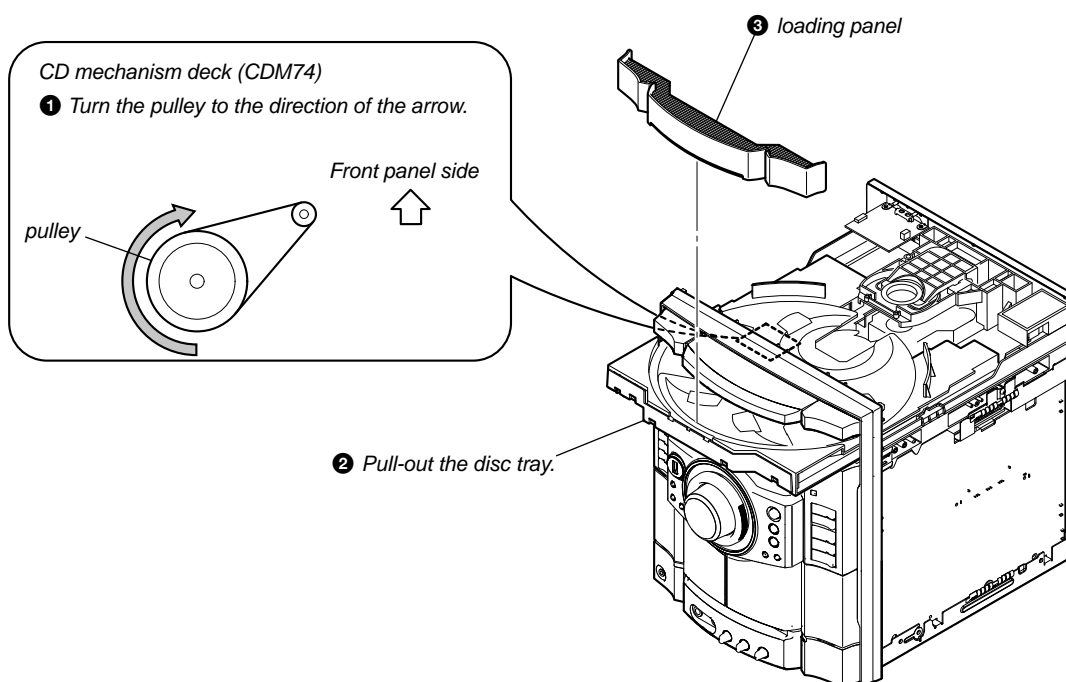


Note: Follow the disassembly procedure in the numerical order given.

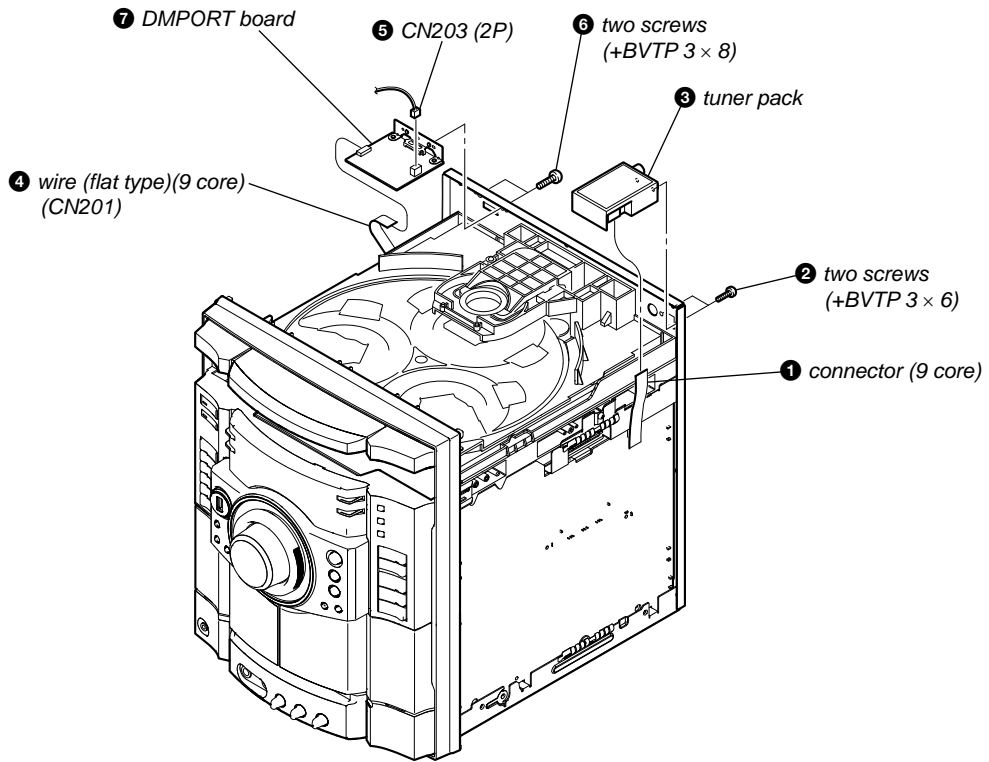
3-1. CASE



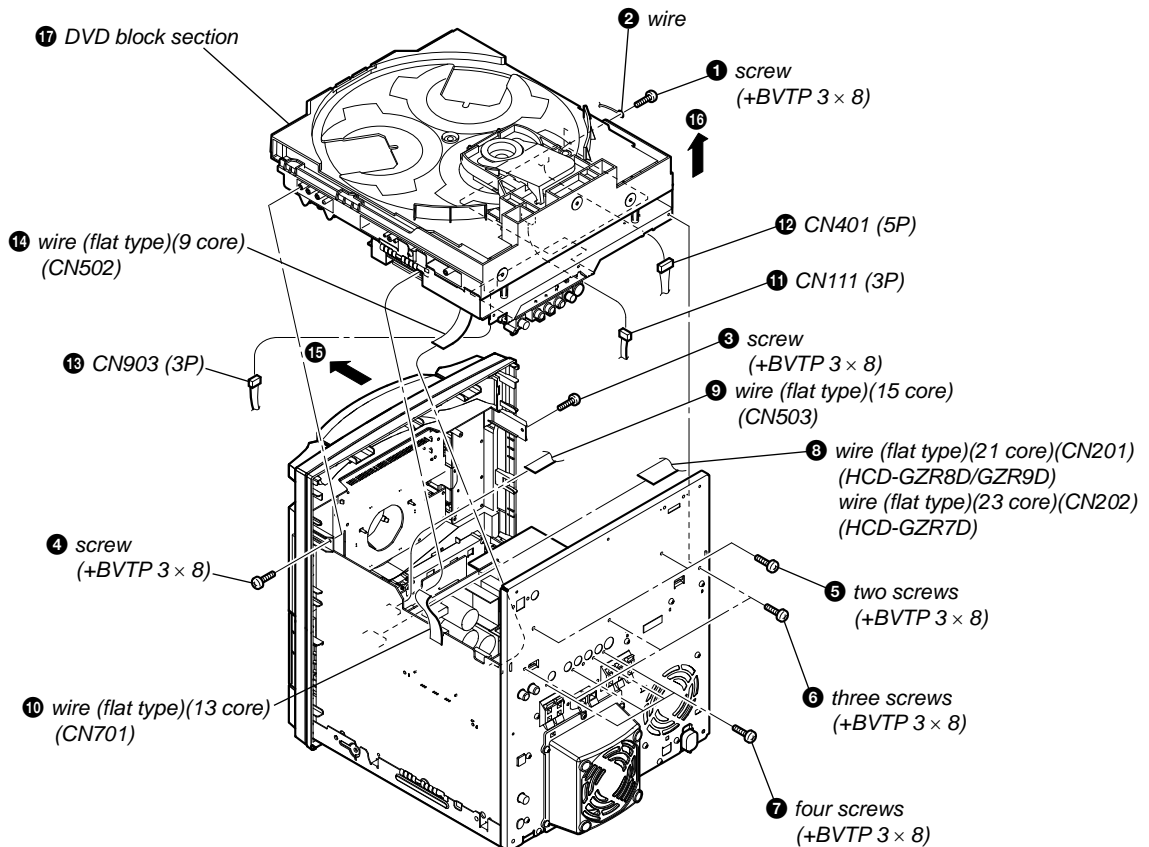
3-2. LOADING PANEL



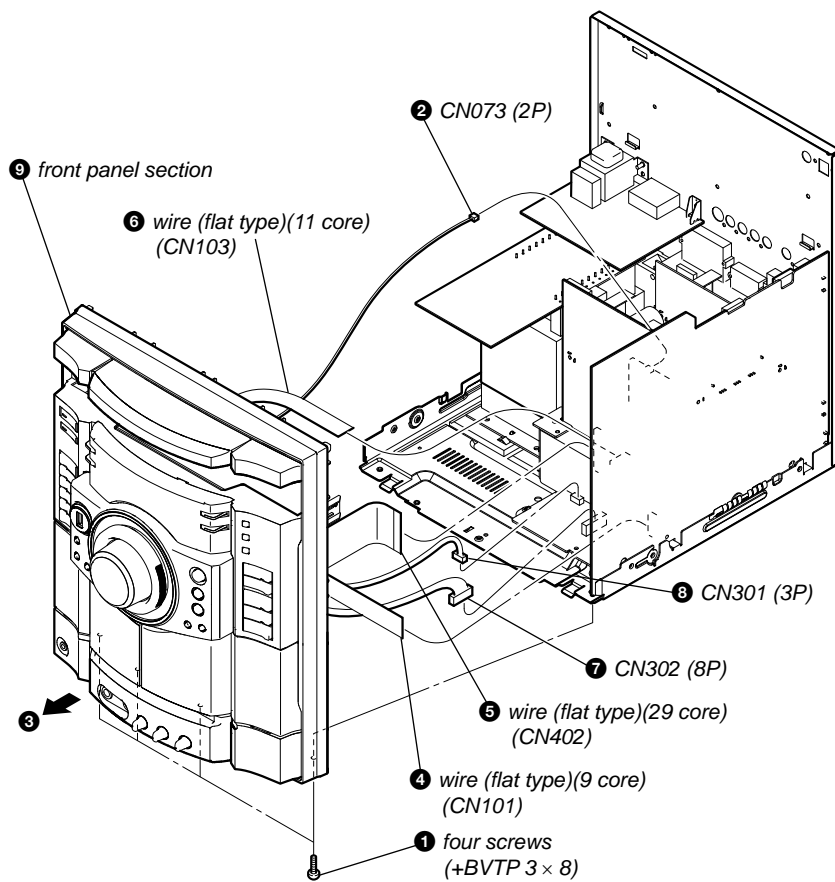
3-3. TUNER PACK, DMPORT BOARD



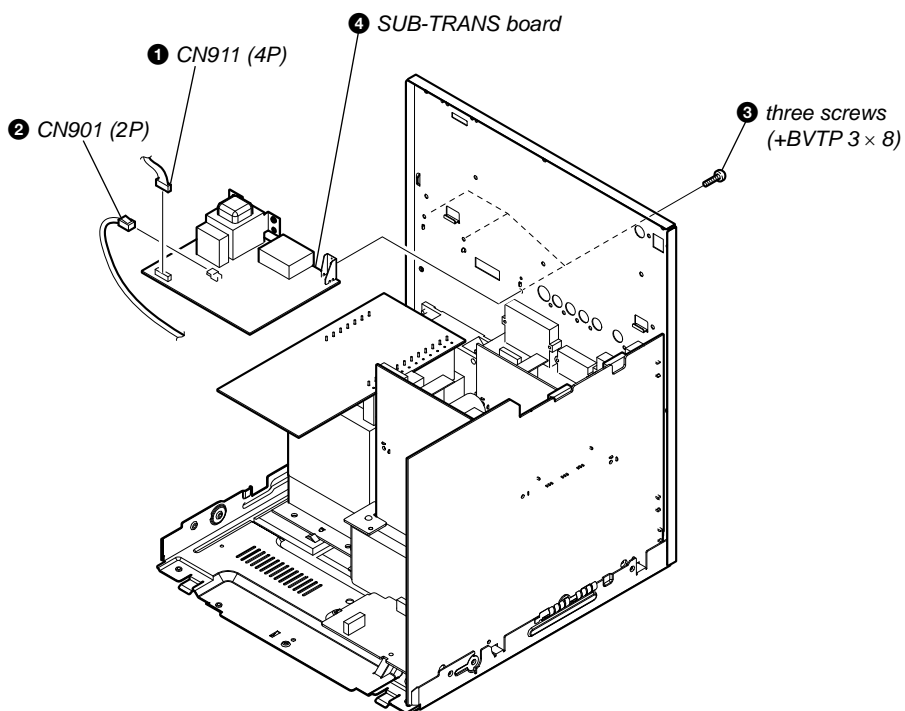
3-4. DVD BLOCK SECTION



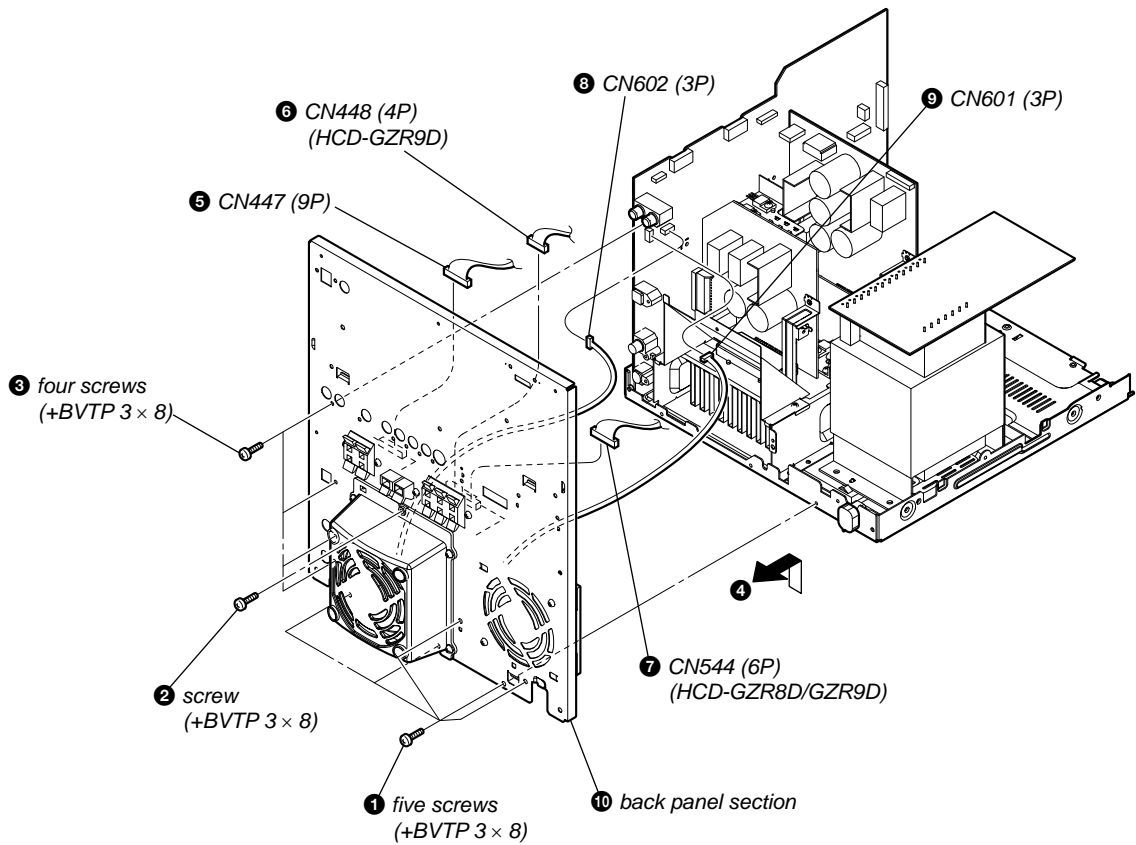
3-5. FRONT PANEL SECTION



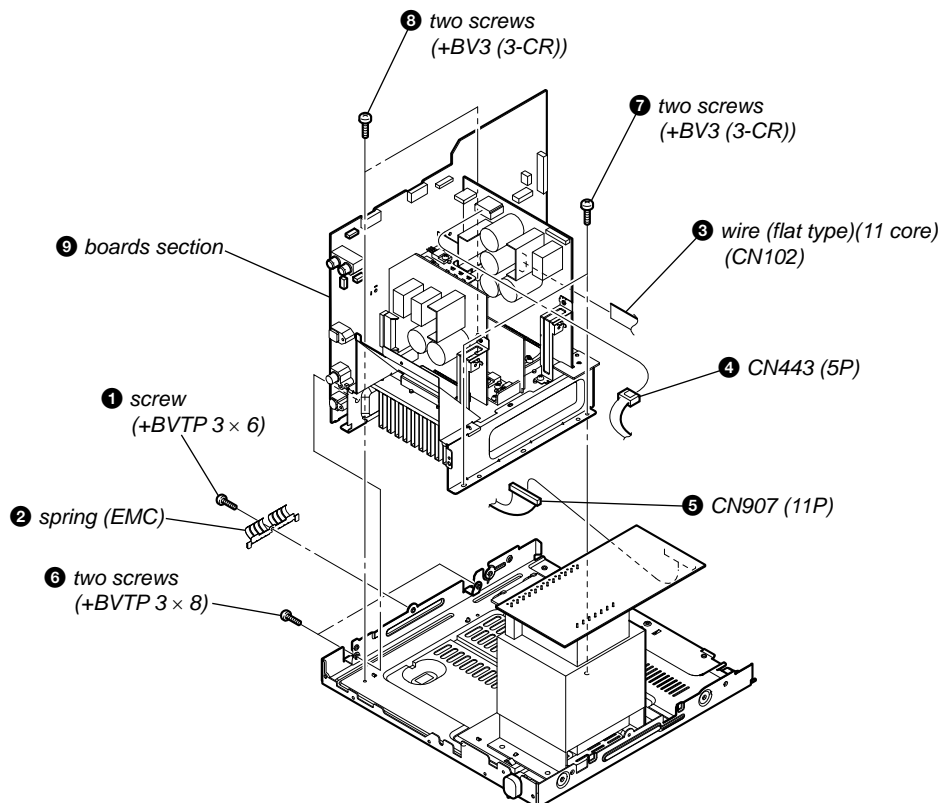
3-6. SUB-TRANS BOARD



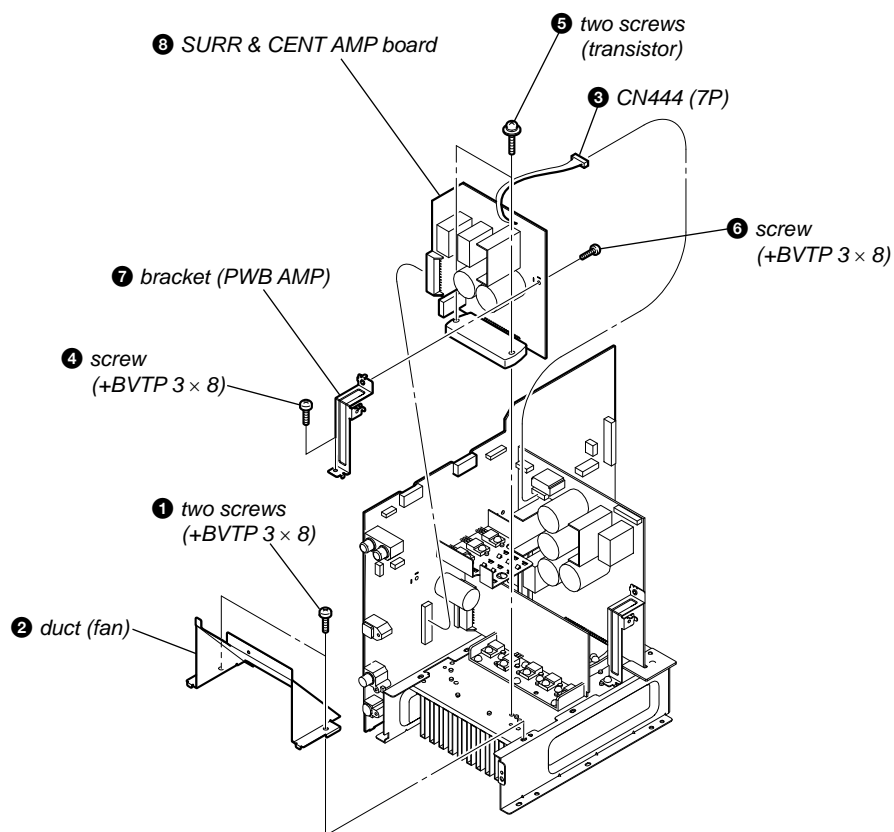
3-7. BACK PANEL SECTION



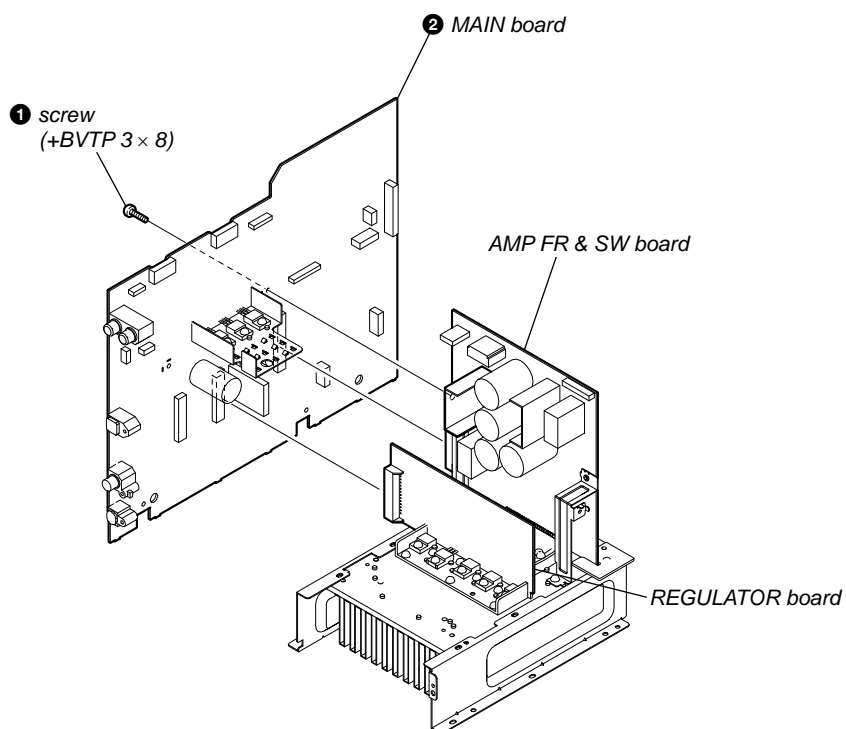
3-8. BOARDS SECTION



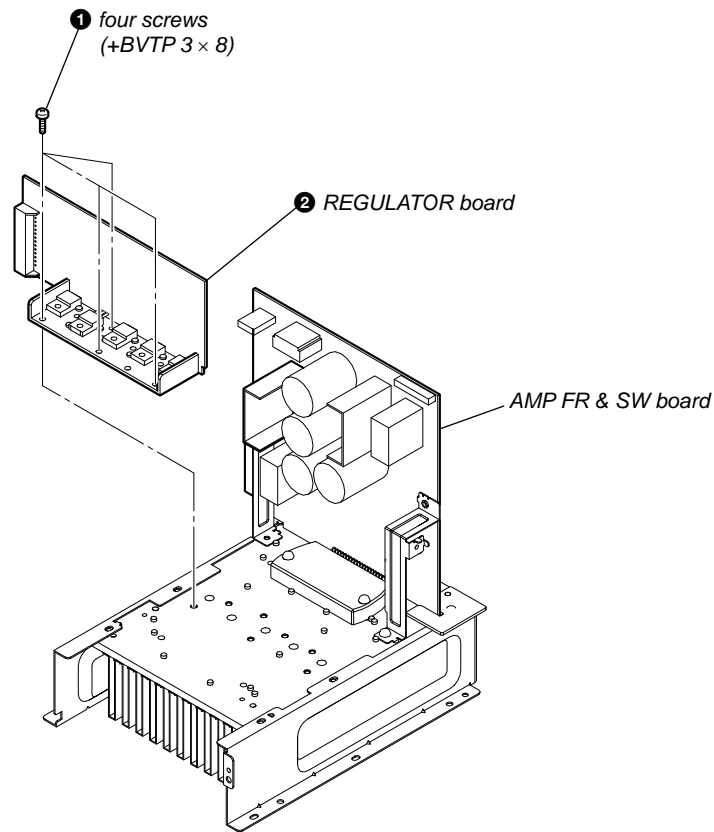
3-9. SURR & CENT AMP BOARD (HCD-GZR8D/GZR9D)



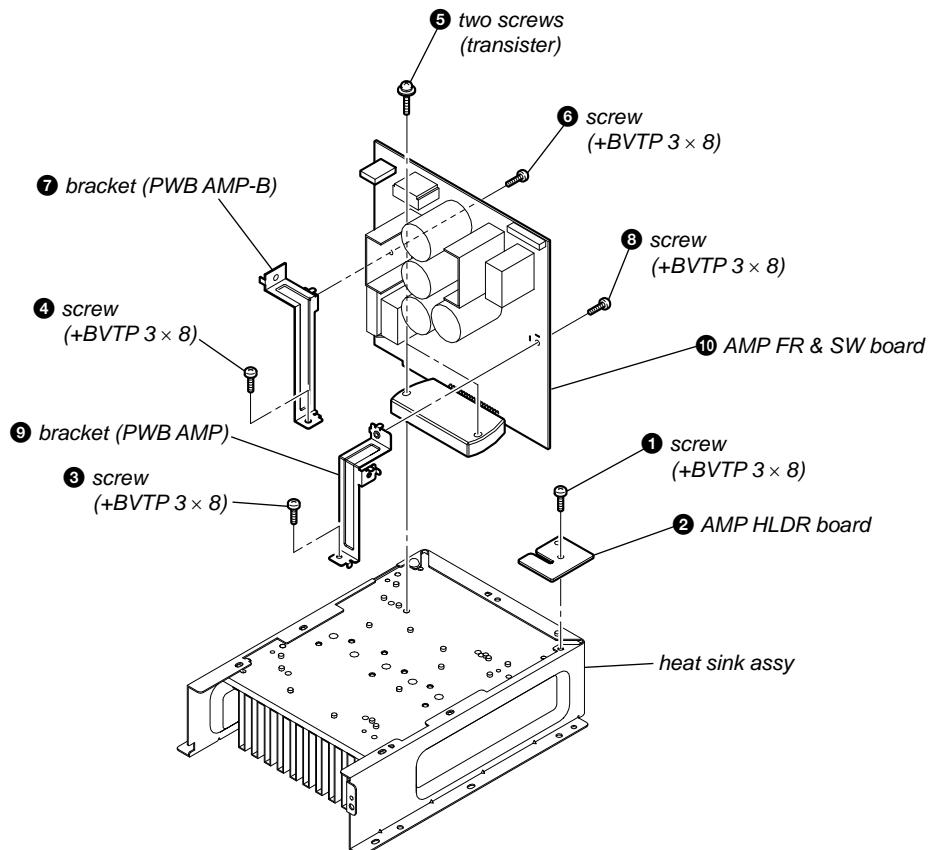
3-10. MAIN BOARD



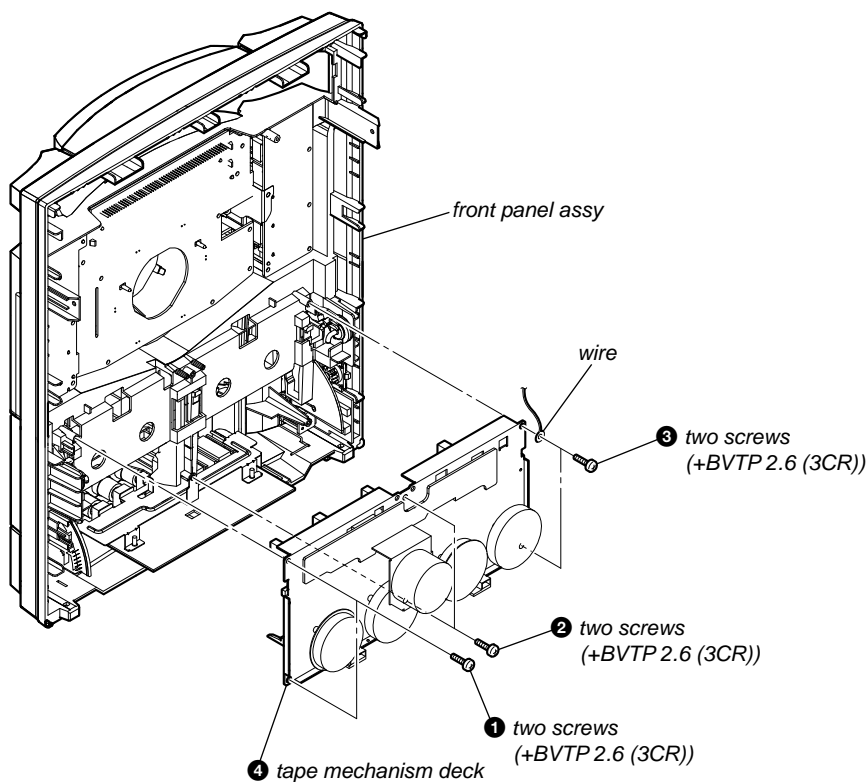
3-11. REGULATOR BOARD



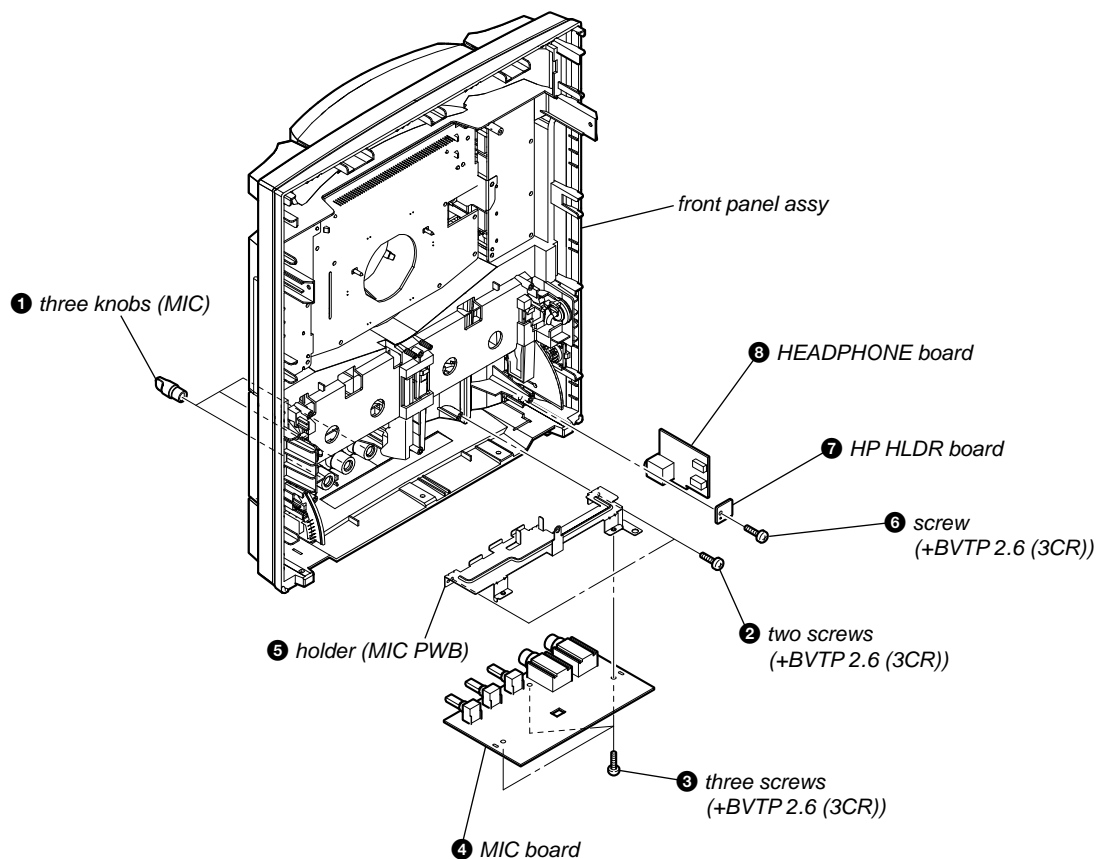
3-12. AMP FR & SW BOARD



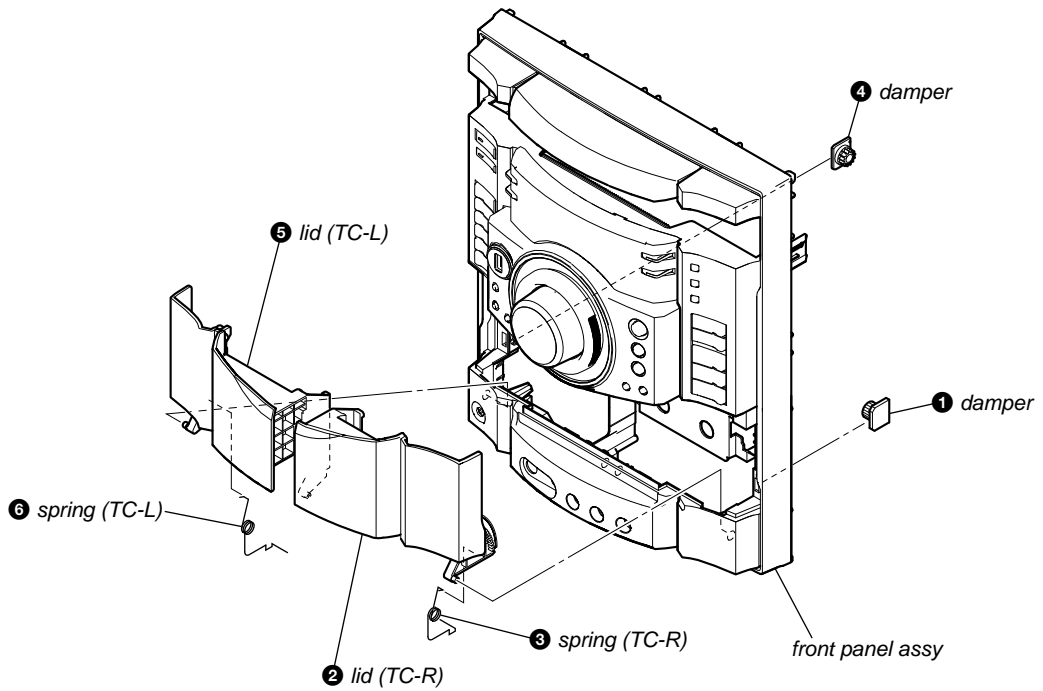
3-13. TAPE MECHANISM DECK



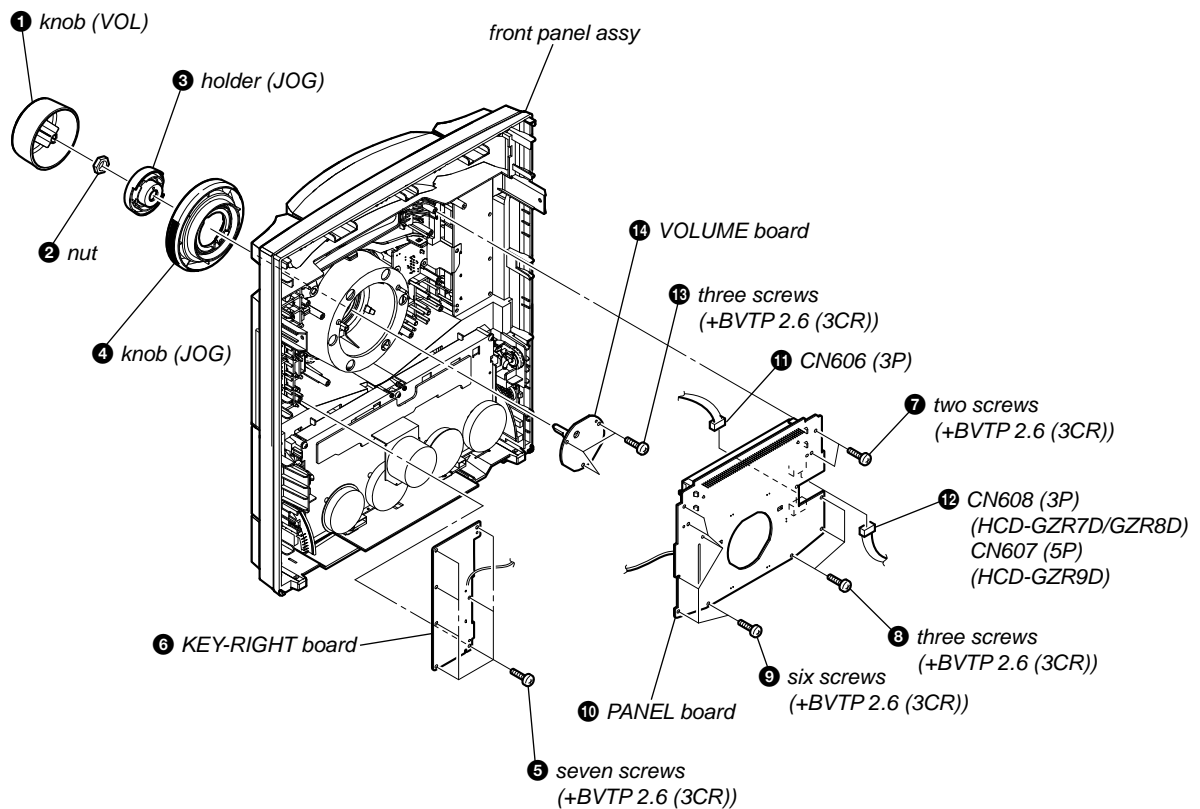
3-14. MIC BOARD, HEADPHONE BOARD



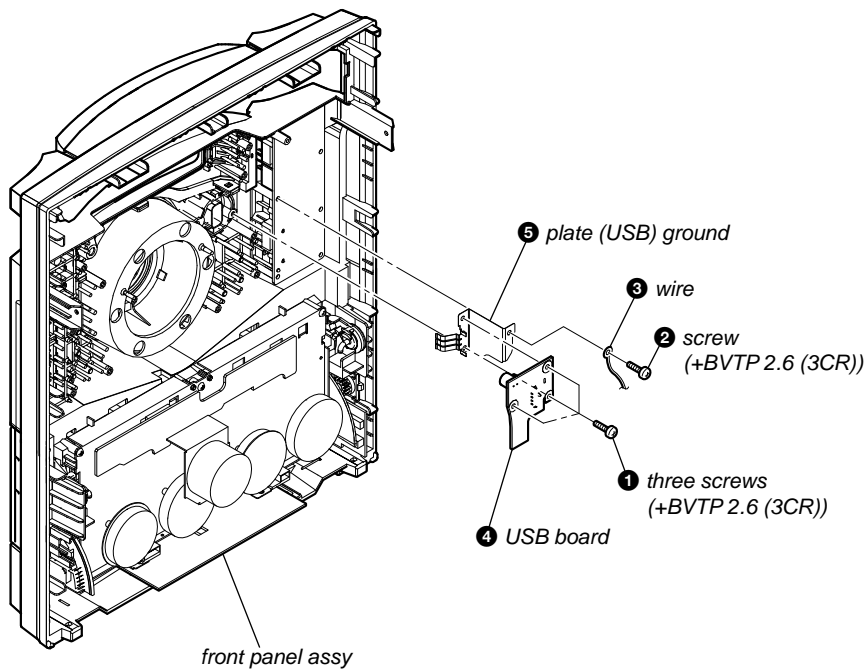
3-15. LID (TC-L), LID (TC-R)



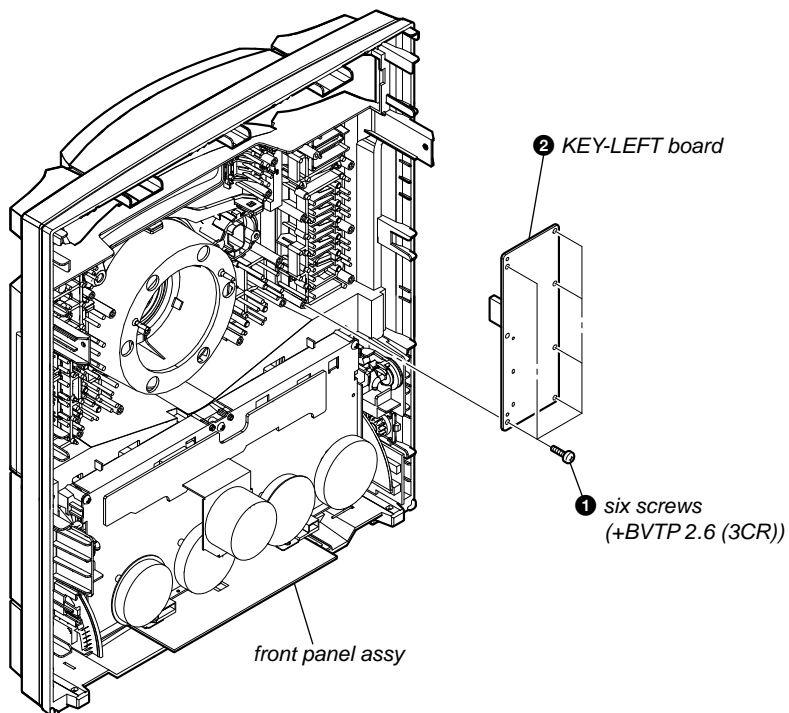
3-16. PANEL BOARD, VOLUME BOARD, KEY-RIGHT BOARD



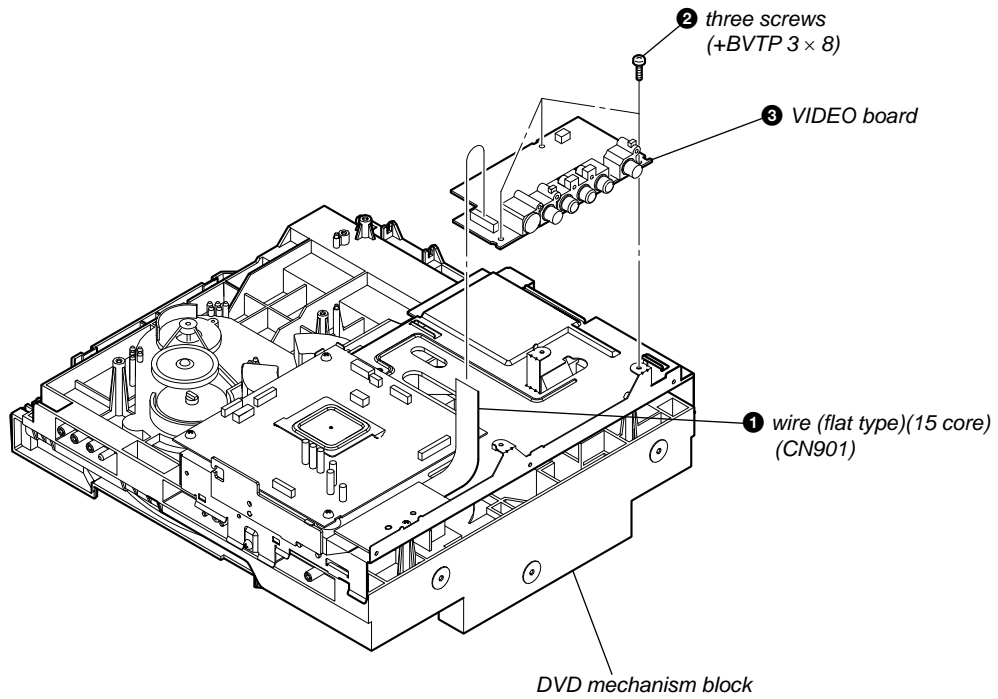
3-17. USB BOARD



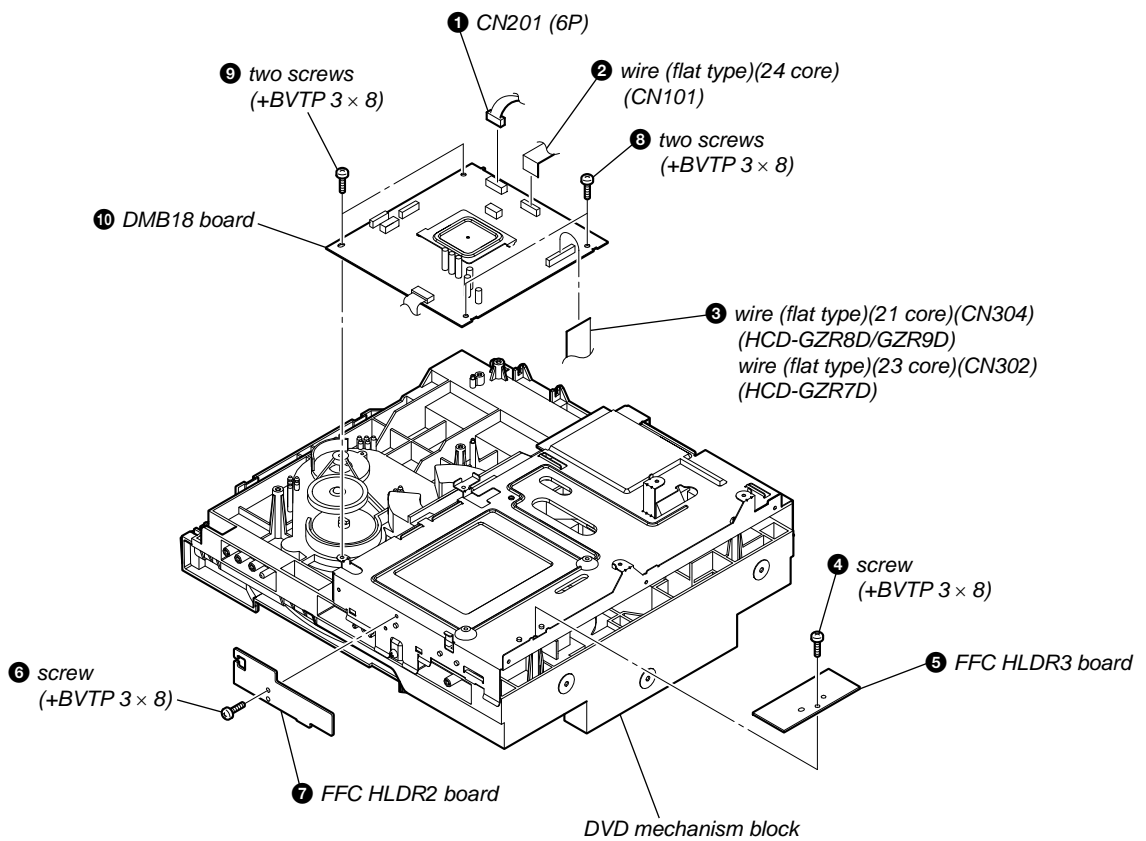
3-18. KEY-LEFT BOARD



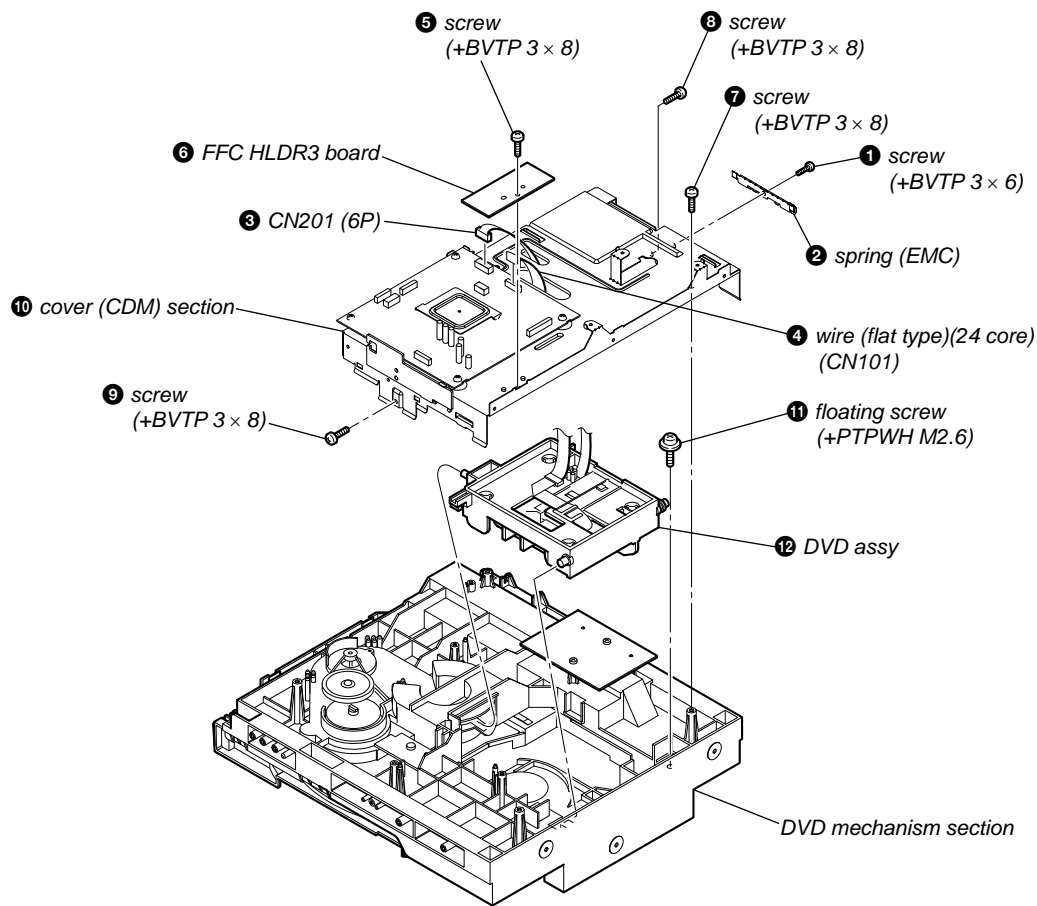
3-19. VIDEO BOARD



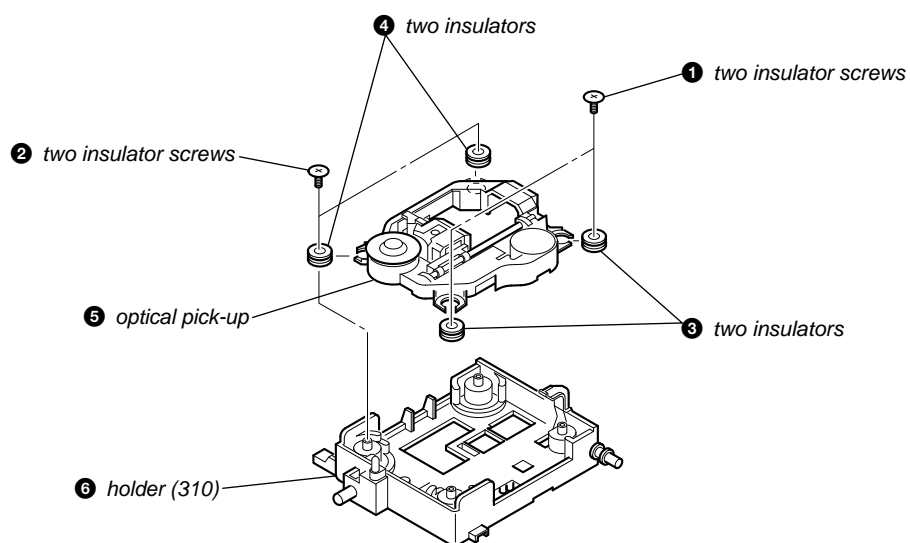
3-20. DMB18 BOARD



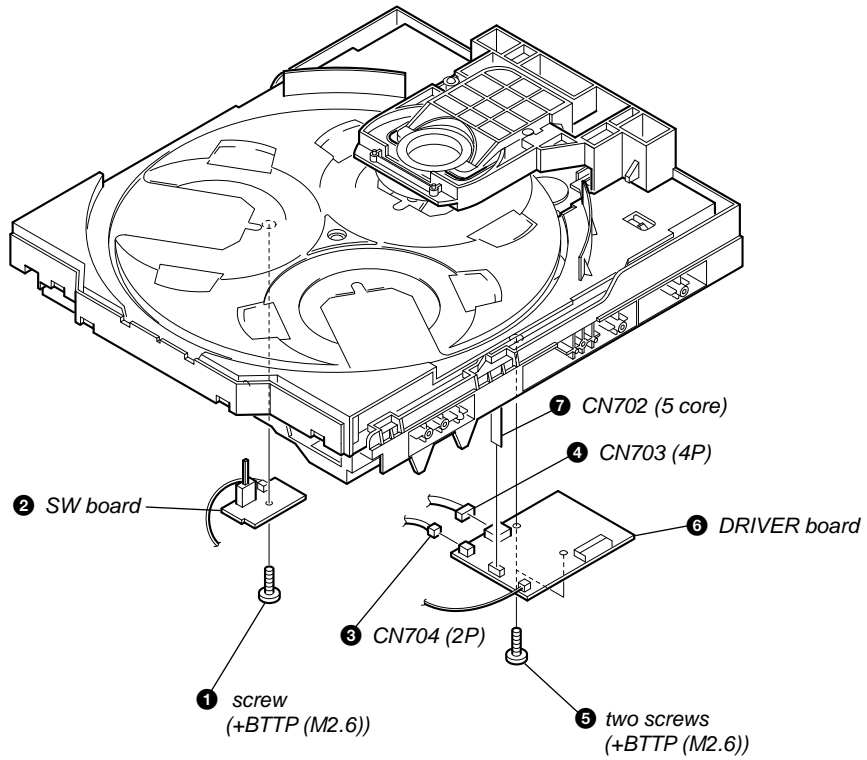
3-21. DVD ASSY



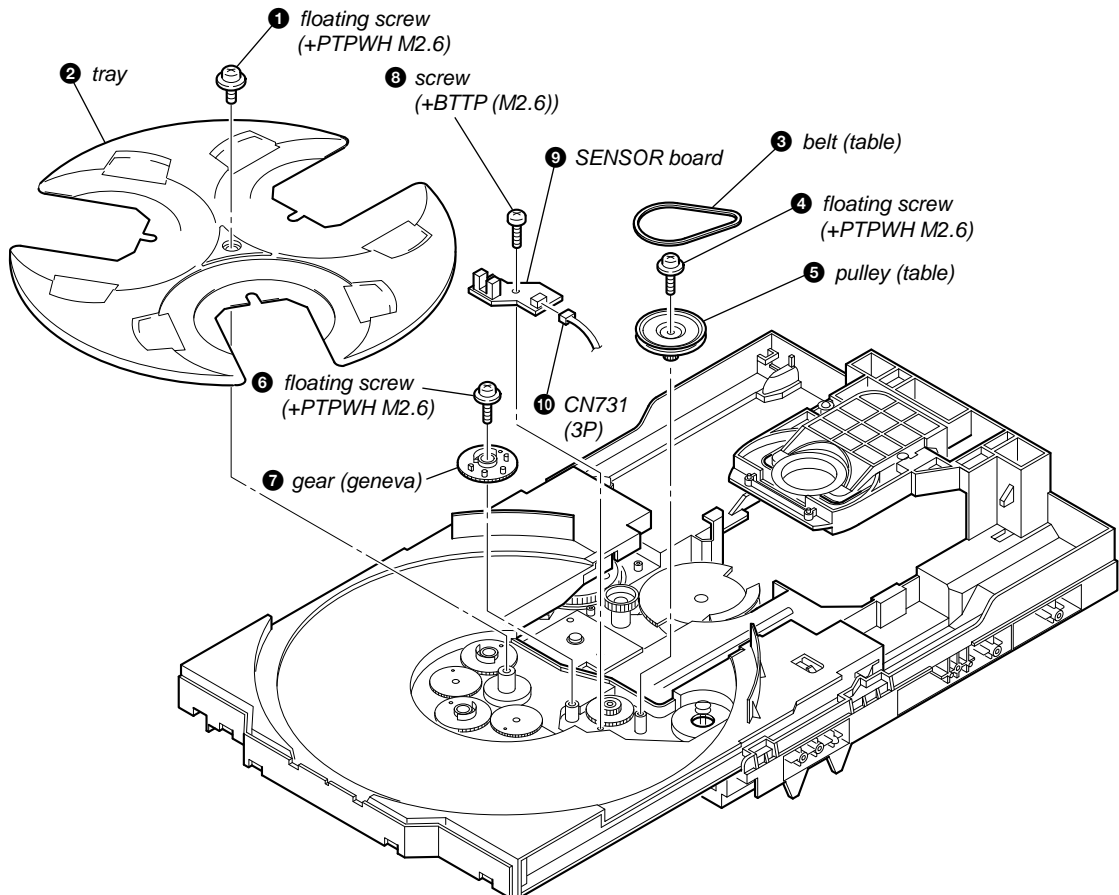
3-22. OPTICAL PICK-UP



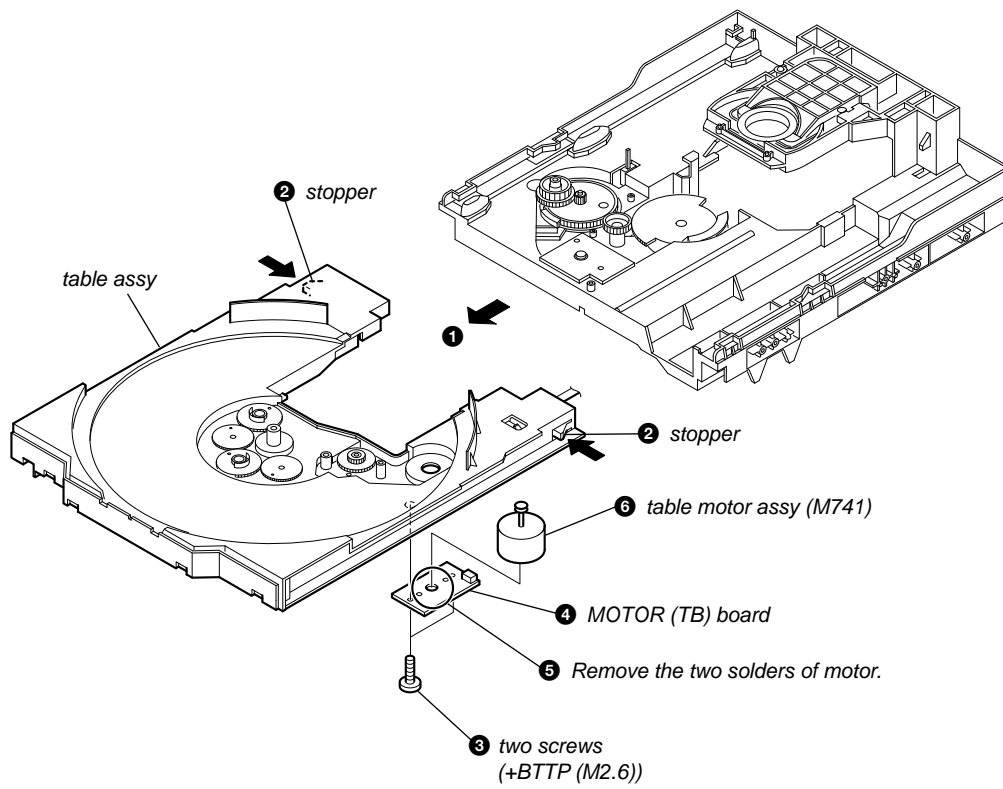
3-23. DRIVER BOARD, SW BOARD



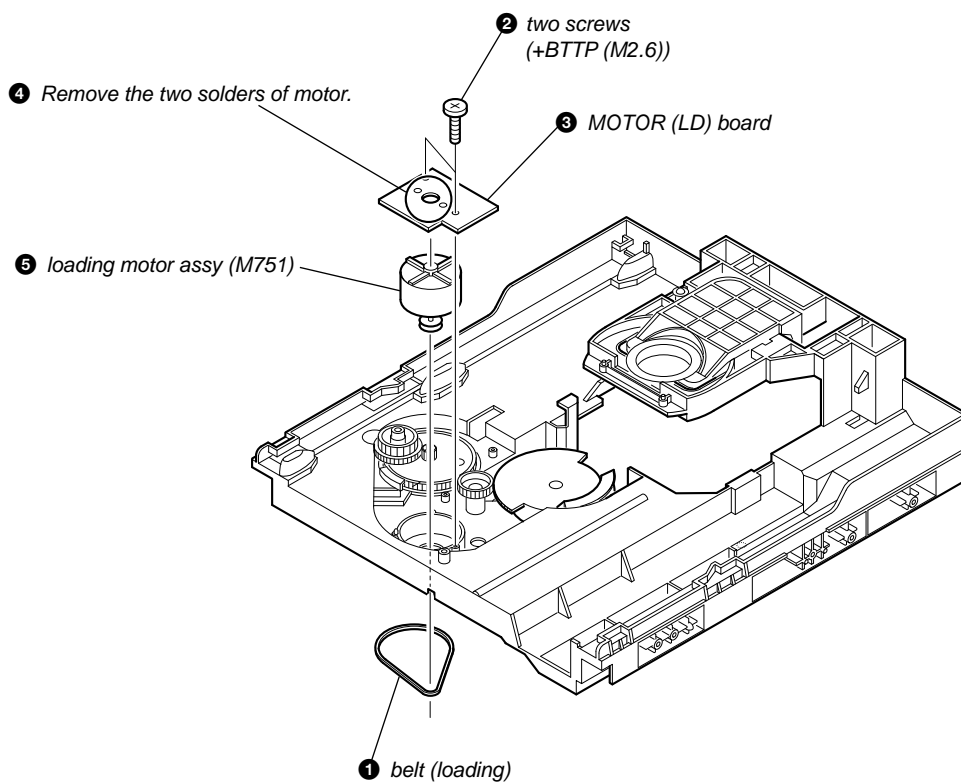
3-24. SENSOR BOARD



3-25. MOTOR (TB) BOARD



3-26. MOTOR (LD) BOARD



SECTION 4 TEST MODE

[COLD RESET]

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

Procedure:

1. Press the [I/⏻] button to turn on the system.
2. Press [ILLUMINATION] button, [ENTER] button and [I/⏻] button simultaneously.
3. The message "COLD RESET" appears on the fluorescent indicator tube. Then, the fluorescent indicator tube becomes blank for a while, and the system is reset.

[COMMON TEST MODE]

- This mode is used to check operations of the respective section of Equalizer level, volume and VACS ON/OFF.

Procedure:

• To enter Common Test Mode

1. Press [I/⏻] button to turn on the system.
2. Press [■] button, [ILLUMINATION] button and [DISC 3] simultaneously.
3. The message "VACS0" appears on the fluorescent indicator tube.

• Check of Equalizer Level

1. Press [EQ BAND/MEMORY] button repeatedly until a message "ALL EQ MIN" appears on the fluorescent indicator tube. GEQ decreases to its minimum.
2. Press [EQ BAND/MEMORY] button repeatedly until a message "ALL EQ MAX" appears on the fluorescent indicator tube. GEQ increases to its maximum.
3. Press [EQ BAND/MEMORY] button repeatedly until a message "ALL EQ FLAT" appears on the fluorescent indicator tube. GEQ is set to flat.

• Check of Volume

1. When the [MASTER VOLUME] dial is turned counterclockwise even slightly, the sound volume increases to its maximum and message "VOLUME16" → "VOLUME MAX" appears on the fluorescent indicator tube.
2. When the [MASTER VOLUME] dial is turned clockwise even slightly, the sound volume decreases to its minimum and message "VOLUME16" → "VOLUME MIN" appears on the fluorescent indicator tube.

• Check of VACS (Variable Attenuation Control System) ON/OFF Select

1. Press [REC TO TAPE] button repeatedly until a message "VACS OFF" or "VACS ON" appears on the fluorescent indicator tube.

• To release from Common Test Mode

1. To release from this mode, press [I/⏻] button.
2. To cold reset is enforced at the same time.

[AMP TEST MODE]

- This mode is used to display the real time VACS level and check operations of the respective sections of Equalizer band and DBFB ON/OFF.

Procedure:

• To enter AMP Test Mode

1. Press [I/⏻] button to turn on the system.
2. Press [■] button, [EQ BAND/MEMORY] button and [REC TO USB] button simultaneously.
3. The message "AMP TEST IN" appears on the fluorescent indicator tube.

• Check of VACS Display/AMP Adjustment Select

1. Press [REC TO TAPE] button repeatedly until a message "V0 0 0" appears on the fluorescent indicator tube. "0" represents VACS level which is triggered by signal level.
2. Press [REC TO TAPE] button repeatedly until a message "D +6 +2 +4" appears on the fluorescent indicator tube. "+6" represents Equalizer Low level, "+2" represents Equalizer Mid level and "+4" represents Equalizer High level.

• Check of Equalizer Band Select

1. Press [EQ BAND/MEMORY] button repeatedly until a message "LOW +6 dB" appears on the fluorescent indicator tube. EQ Band is set to Low level.
2. Press [EQ BAND/MEMORY] button repeatedly until a message "MID +2 dB" appears on the fluorescent indicator tube. EQ Band is set to Middle level.
3. Press [EQ BAND/MEMORY] button repeatedly until a message "HIGH +4 dB" appears on the fluorescent indicator tube. EQ Band is set to High level.

• Change of Equalizer Band

1. Press [EQ BAND/MEMORY] button repeatedly until a message "LOW +6 dB" appears on the fluorescent indicator tube.
2. When the [OPERATION DIAL] ring is turned clockwise or counterclockwise even slightly, "LOW +6 dB" change to "LOW -8 dB" ↔ "LOW +8 dB" appears on the fluorescent indicator tube.
3. Press [EQ BAND/MEMORY] button repeatedly until a message "MID +2 dB" appears on the fluorescent indicator tube.
4. When the [OPERATION DIAL] ring is turned clockwise or counterclockwise even slightly, "MID +2 dB" change to "MID -8 dB" ↔ "MID +8 dB" appears on the fluorescent indicator tube.
5. Press [EQ BAND/MEMORY] button repeatedly until a message "HIGH +4 dB" appears on the fluorescent indicator tube.
6. When the [OPERATION DIAL] ring is turned clockwise or counterclockwise even slightly, "HIGH +4 dB" change to "HIGH -8 dB" ↔ "HIGH +8 dB" appears on the fluorescent indicator tube.

• Check of DBFB ON/OFF Select

1. Press [OPTIONS] button repeatedly until a message "DBFB OFF" or "DBFB ON" appears on the fluorescent indicator tube.

• To release from AMP Test Mode

1. To release from this mode, press [■] button, [EQ BAND/MEMORY] button and [I/⏻] button simultaneously.

[TCM OFFLINE MODE]

- This mode prevents the system from tuning off automatically when TCM is not connected. Therefore, measurements can be done even when TCM is not connected during production.

Procedure:

1. Press [I/⏻] button to turn on the system.
(SONY DEMO mode)
2. Press [SOUND FIELD] button, [EQ BAND/MEMORY] button and [I/⏻] button simultaneously. The system will turn on automatically.
3. The message “TCM OFFLINE” appears on the fluorescent indicator tube.

• To release from TCM OFFLINE Mode

1. To release from this model, press [I/⏻] button.

[PANEL TEST MODE]

- This mode is used to check the fluorescent indicator tube, LEDs, button, MASTER VOLUME dial OPERATION DIAL ring, system software version, DVD lib version, model name and destination.

Procedure:

1. Press [I/⏻] button to turn on the system.
2. Press [■] button, [ILLUMINATION] button and [DISC 2] button simultaneously.
3. Power illuminator LEDs and segment in fluorescent indicator tube are lighted up.
4. When you want to enter to the system software version display model, press [DISC 1] button. The system software version appears on the fluorescent indicator tube. Press [DISC 1] button again, the DVD lib version appears on the fluorescent indicator tube.
5. Press [DISC 2] button the key encode test mode is activated.
6. In the key encode test mode, the fluorescent indicator tube displays “KEY 0 0 0 0”.
Each time a button pressed, change the each numbers.
7. Press [DISC 3] button the mode name and destination on the fluorescent indicator tube.

• To release from Panel Test Mode

1. To release from this mode, press [■] button, [ILLUMINATION] button and [DISC 2] button simultaneously.

[DVD SHIP MODE (WITHOUT MEMORY CLEAR)]

- This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press [I/⏻] button to turn on the system.
2. Press [DVD] button, to set the “DVD NO DISC” mode.
3. Press [◀▶] button and [I/⏻] button simultaneously.
The system will turn off automatically.
4. After the “STANDBY” blinking display finishes, a message “LOCK” appears on the fluorescent indicator tube and the DVD ship mode is set.

• To release from DVD Ship Mode

1. To release from this model, press [I/⏻] button.

[DVD SHIP MODE (WITHOUT MEMORY CLEAR)]

- This mode moves the optical pick-up to the position durable to vibration and clears all data including preset data stored in the RAM to initial conditions after the power supply is turned off. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press [I/⏻] button to turn on the system.
2. Press [DVD] button, to set the “DVD NO DISC” mode.
3. Press [ENTER] button, [GROOVE] button and [I/⏻] button simultaneously.
4. After the “STANDBY” blinking display finishes, a message “COLD RESET” appears on the fluorescent indicator tube and the DVD ship mode is set.

• To release from DVD Ship Mode

1. To release from this model, press [I/⏻] button.

[DISC THEFT PREVENTION MODE]

- This mode let you lock the disc tray. When this mode is activated, the disc tray will not open.

Procedure:

1. Press [I/⏻] button to turn on the system.
2. Press [DVD] button.
3. Press [■] button and [▲ OPEN/CLOSE] button simultaneously and hold down until “LOCKED” or “UNLOCKED” appears on the fluorescent indicator tube (around 5 seconds).

• To release from Disc Theft Prevention Mode

1. To release from this model, press [I/⏻] button.

[DVD COLOR SYSTEM MODE]

- This mode let you change the color system of the video output from PAL to NTSC or vice-versa.

Procedure:

1. Press [I/⏻] button to turn on the system.
2. Press [DVD] button.
3. Press [I/⏻] button to turn off the system.
4. Press [■] button and [I/⏻] button simultaneously.
The system will turn off automatically.
5. The message “COLOR PAL” or “COLOR NTSC” appears on the fluorescent indicator tube.

• To release from DVD Color System Mode

1. To release from this model, press [I/⏻] button.

[DVD FIRMWARE VERSION MODE]

- This mode is used to display the DVD firmware version.

Procedure:

1. Press [I/⏻] button to turn on the system.
2. Press [DVD] button.
3. Press [■] button and [I/⏻] button simultaneously.
4. The version of DVD firmware appears on the on-screen display on TV.

• To release from DVD Firmware Version Mode

1. To release from this mode, press [I/⏻] button.

[DVD REBOOT AVOIDANCE MODE]

- This mode is used to display the DVD Reboot Avoidance.

Procedure:

1. Press [I/⏻] button to turn on the system.
2. Press [DVD] button.
3. Press [DVD] button, [■] button and [DISC 3] button simultaneously.
4. The message “MTK DBG” appears on the fluorescent indicator tube.

• **To release from DVD Reboot Avoidance Mode**

1. To release from this mode, press [I/⏻] button.

[AM TUNER STEP CHANGE]

- The step interval of AM channels can be toggled between 9 kHz and 10 kHz.

Procedure:

1. Press [I/⏻] button to turn off the system.
2. Press [TUNER/BAND] button repeatedly to select the “AM”.
3. Press [I/⏻] button to turn on the system.
4. Press [TUNING +] button and [I/⏻] button simultaneously. The system will turn on automatically.
5. The message “AM 9k STEP” or “AM 10k STEP” appears on the fluorescent indicator tube and thus the channel step change.

[VIDEO/SAT FUNCTION CHANGE]

- This mode let you change from VIDEO to SAT and vice-versa.

Procedure:

1. Press [I/⏻] button to turn on the system.
2. Press [VIDEO/SAT] button.
3. Press [VIDEO/SAT] button and [I/⏻] button simultaneously. The function will change to SAT. Press the same button again to change from SAT to VIDEO.

[DVD SERVICE MODE]

- This mode let you make diagnosis and adjustment easily by using the remote commander and the TV. The instructions, diagnostic results, etc. are given on the on-screen display.

• **TEST DISC LIST**

Be sure to use the DVD disc that matches the signal standards of your region.

• CD

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

• DVD SL (Single Layer)

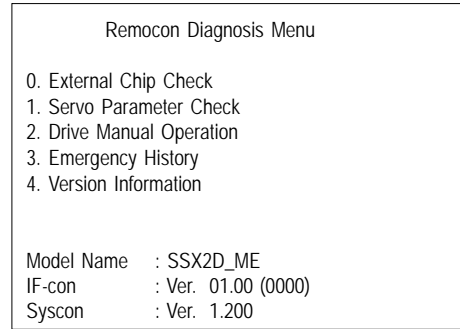
NTSC : HLX-503 (Part No.: J-6090-069-A)
 HLX-504 (Part No.: J-6090-088-A)
PAL : HLX-506 (Part No.: J-6090-077-A)

• DVD DL (Dual Layer)

NTSC : HLX-501 (Part No.: J-6090-071-A)
 HLX-505 (Part No.: J-6090-089-A)
PAL : HLX-507 (Part No.: J-6090-078-A)

• **Procedure to enter to DVD Service Mode:**

1. Press [I/⏻] button to turn on the system.
2. Press [DVD] button.
3. Press [■] button and [▲ OPEN/CLOSE] button simultaneously and then turn the [MASTER VOLUME] dial clockwise.
4. The message “SERVICE IN” appears on the fluorescent indicator tube and the Top Menu of Remocon Diagnosis Menu appears on the on-screen display on the TV. The model name, main unit’s micom version information (IF-con) and DVD firmware version information (Syscon) are displayed at the bottom of the on-screen display.

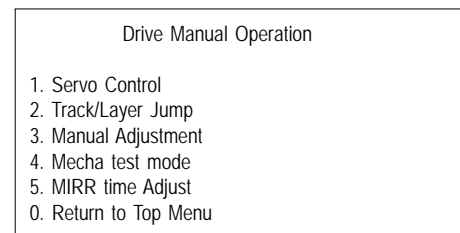


5. To execute each function, press its number by using numeric button on the remote commander.
6. To release from this mode, press [I/⏻] button to turn off the system.

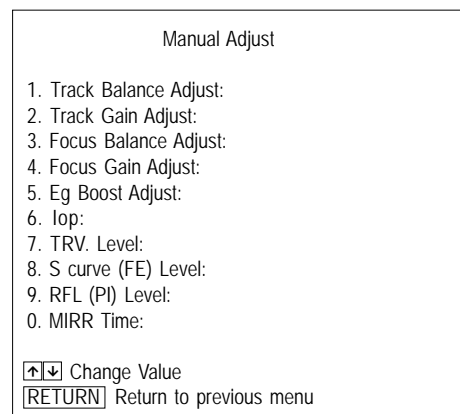
• **Execute IOP Measurement**

In order to execute IOP measurement, the following standard procedures must be followed.

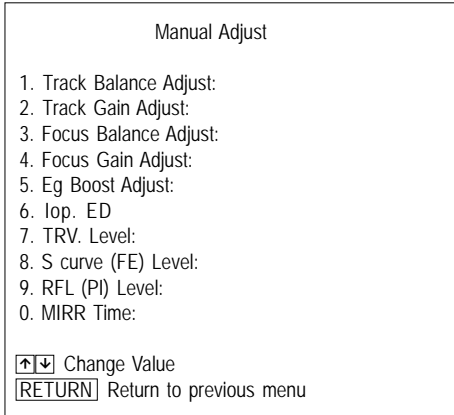
1. From the Top Menu of Remocon Diagnosis Menu, select “2. Drive Manual Operation” by pressing the [2] button on the remote commander. The following screen appears on the on-screen display.



2. Select “3. Manual Adjustment” by pressing the [3] button on the remote commander. The following screen appears on the on-screen display.



- Select "6. Iop:" by pressing [6] button on the remote commander.
- Wait until a hexadecimal number appears in the on-screen display as below:

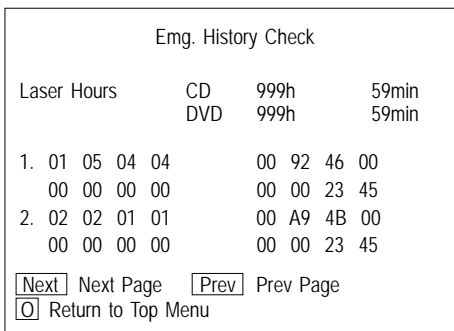


- Convert data from hexadecimal to decimal by using conversion table.
- Please find the label on the rear of the BU (Base Unit). The default IOP value is written in the label.
- Subtract between these two values.
- If the remainder is smaller than 93 (decimal), then it is OK. However if the value is higher than 93, then the BU is defective and need to be change.
- Press [RETURN] button on the remote commander to return to previous menu.
- Press [0] button on the remote commander to return to the Top Menu of Remocon Diagnosis Menu.
- Press [I/⏻] button to turn off the system.

• Check Emergency History

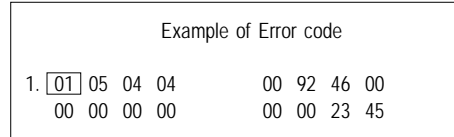
To check the emergency history, please follow the following procedure.

- From the Top Menu of Remocon Diagnosis Menu, select "3. Emergency History" by pressing the [3] button on the remote commander. The following screen appears on the on-screen display.



- You can check the total time when the laser is turned on during playback of DVD and CD from the above menu. The maximum time, which can be displayed are 999h 59min.
- You can check the error code of latest 10 emergency history from the above menu. To view the previous or next page of emergency history, press [◀◀] or [▶▶] on the remote commander. The error code consists of

• Error Code

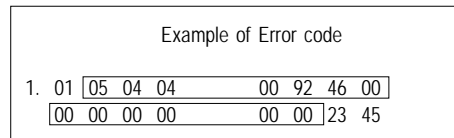


The meaning of error code is as below:

- 01: Communication error (No reply from syscon)
- 02: Syscon hung up
- 03: Power OFF request when syscon hung up
- 19: Thermal shutdown
- 24: MoveSledHome error
- 25: Mechanical move error (5 Changer)
- 26: Mechanical move stack error
- 30: DC motor adjustment error
- 31: DPD offset adjustment error
- 32: TE balance adjustment error
- 33: TE sensor adjustment error
- 34: TE loop gain adjustment error
- 35: FE loop gain adjustment error
- 36: Bad jitter after adjustment
- 40: Focus NG
- 42: Focus layer jump NG
- 52: Open kick spindle error
- 51: Spindle stop error
- 60: Focus on error
- 61: Seek fail error
- 62: Read Q data/ID error
- 70: Lead in data read fail
- 71: TOC read time out (CD)
- 80: Can't buffering
- 81: Unknown media type

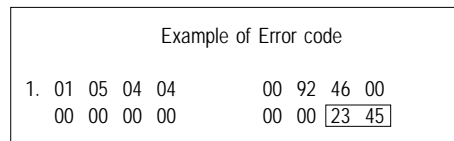
• Parameter of error code

This is the detail of error code.



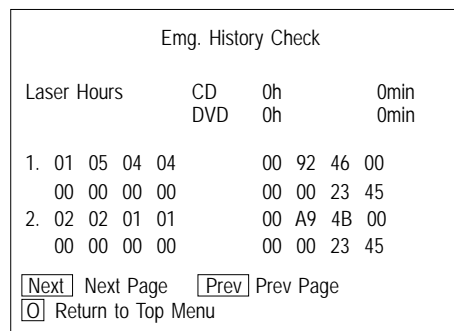
• Time of error code

This is the laser time when an error occurred.



To clear the Laser Hours

Press [DISPLAY] button and then press [CLEAR] button. The data for both CD and DVD data are reset.



To clear the Emergency History

Press [DVD TOP MENU] button and then press [CLEAR] button.
The error code for all emergency history would be reset.

Emg. History Check			
Laser Hours	CD	999h	59min
	DVD	999h	59min
1. 00 00 00 00		00 00 00 00	
00 00 00 00		00 00 00 00	
2. 00 00 00 00		00 00 00 00	
00 00 00 00		00 00 00 00	
<input type="button" value="Next"/> Next Page <input type="button" value="Prev"/> Prev Page <input type="button" value="0"/> Return to Top Menu			

To clear the Initialize Setup Data

Press [DVD/TUNER MENU] button and then press [CLEAR] button on the remote commander.

Version information
Firm (Main) : Ver. xxxxx
Firm (Sub) : xxxxx
RISC : xxxxx
8032 : xxxxx
Audio DSP : xxxxx
Servo DSP : xxxxx
<input type="button" value="0"/> Return to Top Menu

To return to the Top Menu of Remocon Diagnosis Menu

Press [0] button on the remote commander.

- **Check Version Information**

To check the version information, please follow the following procedure.

1. From the Top Menu of Remocon Diagnosis Menu, select "4. Version Information" by pressing the [4] button on the remote commander. The following screen appears on the on-screen display.

Emg. History Check			
Laser Hours	CD	999h	59min
	DVD	999h	59min
Initialize setup data...			
<input type="button" value="Next"/> Next Page <input type="button" value="Prev"/> Prev Page <input type="button" value="0"/> Return to Top Menu			

To return to the Top Menu of Remocon Diagnosis Menu, press [0] on the remote commander.

SECTION 5 MECHANICAL ADJUSTMENTS

Precaution

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

record/playback heads	pinch rollers
erase head	rubber belts
capstan	idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
FWD back tension	CQ-102C	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
REV	CQ-102RC	3.06 N • m to 6.96 N • m 31 to 71 g • cm (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	0.19 N • m to 0.58 N • m 2 to 6 g • cm (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	6.96 N • m to 14.02 N • m 71 to 143 g • cm (0.98 – 1.99 oz • inch)
FWD tension	CQ-403A	9.80 N • m 100 g or more (3.53 oz or more)
REV tension	CQ-403R	9.80 N • m 100 g or more (3.53 oz or more)

SECTION 6 ELECTRICAL ADJUSTMENTS

DVD SECTION

When the optical pick-up assy is replaced, perform the “Execute IOP Measurement”.

Execute IOP Measurement (See page 35)

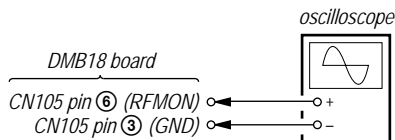
[TEST DISC LIST]

Be sure to use the DVD disc that matches the signal standards of your region.

- CD
 - YEDS-18 (Part No.: 3-702-101-01)
 - PATD-012 (Part No.: 4-225-203-01)
- DVD SL (Single Layer)
 - NTSC : HLX-503 (Part No.: J-6090-069-A)
 - HLX-504 (Part No.: J-6090-088-A)
 - PAL : HLX-506 (Part No.: J-6090-077-A)
- DVD DL (Dual Layer)
 - NTSC : HLX-501 (Part No.: J-6090-071-A)
 - HLX-505 (Part No.: J-6090-089-A)
 - PAL : HLX-507 (Part No.: J-6090-078-A)

[RFMON Level Check]

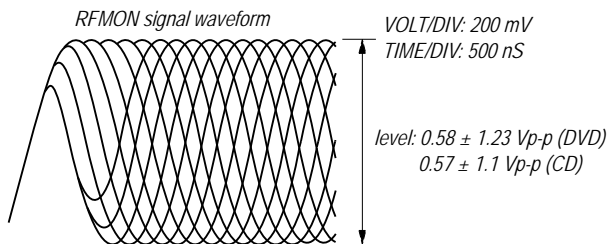
Connection:



Procedure:

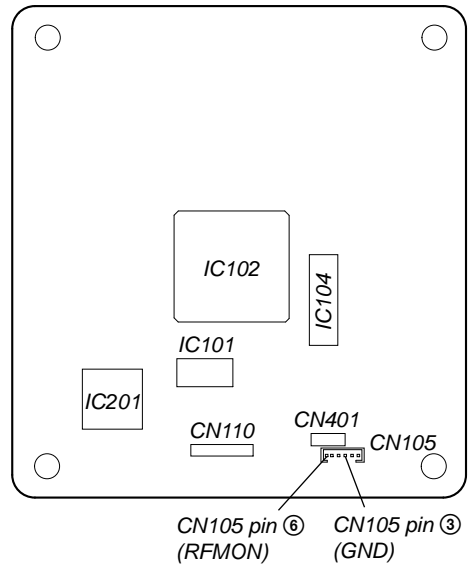
1. Connect an oscilloscope to CN105 pin ⑥ (RFMON) and CN105 pin ③ (GND) on the DMB18 board.
2. Turn the power on.
3. Set the test disc (refer to the TEST DISC LIST) on the tray and press [◀▶] button to playback.
4. Confirm that oscilloscope waveform is clear and check RFMON signal level is correct or not.

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



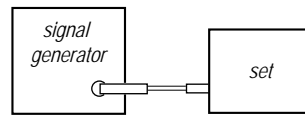
Checking Location: DMB18 board (Side A)

[DMB18 BOARD] (SIDE A)



TUNER SECTION

FM Tune Level Check



Procedure:

1. Turn on the set.
2. Input the following signal from signal generator to FM antenna input directly.

Carrier frequency: A = 87.5 MHz, B = 98 MHz, C = 108 MHz

Deviation : 75 kHz

Modulation : 1 kHz

ANT input : 35 dBμ (EMF)

Note: Use 75 ohm coaxial cable to connect signal generator and the set.

You cannot use video cable for checking.

Use signal generator whose output impedance is 75 ohm.

3. Set to FM tuner function and tune A, B and C signals.
4. Confirm “TUNED” is lit on the display for A, B and C signals.

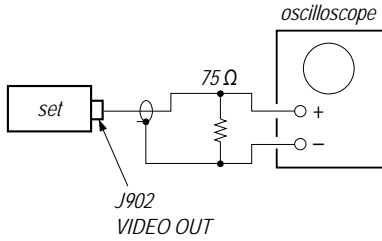
When the selected station signal is received in good condition, “TUNED” is displayed.

VIDEO SECTION

Video Level Check (VIDEO BOARD)

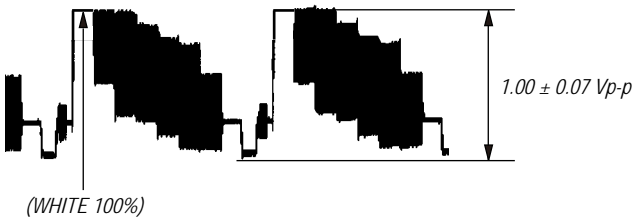
Purpose

This adjustment is made to satisfy the NTSC standard, and if not adjusted correctly, the brightness will be too large or small.



Procedure:

1. Connect oscilloscope to VIDEO outjack.
2. Load a DVD reference disc playback.
3. Check the video signal level is 1.00 ± 0.07 Vp-p.



DECK SECTION

0 dB = 0.775V

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

• Test Tape

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

Record/Playback Head Azimuth Adjustment

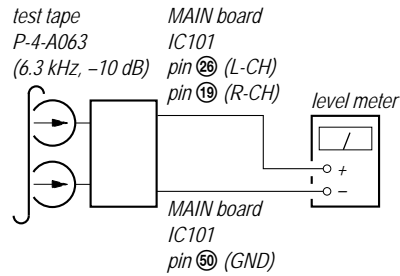
DECK A

DECK B

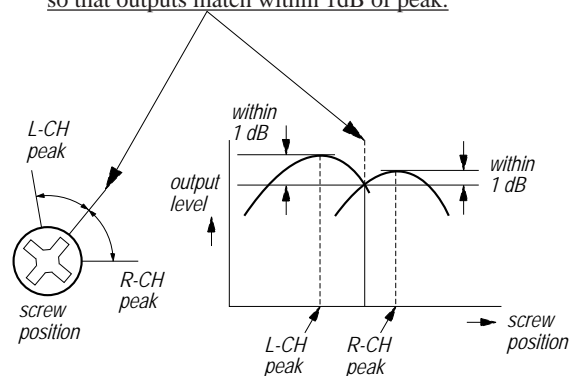
Note: Perform this adjustments for both decks

Procedure:

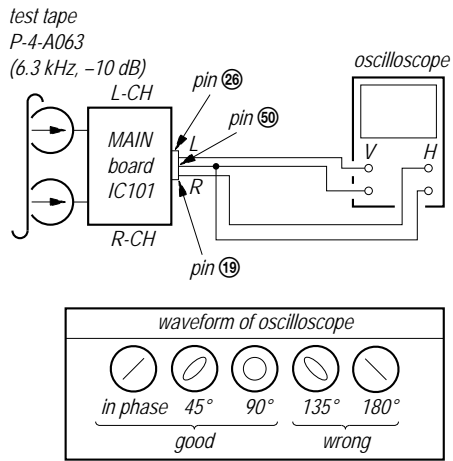
1. Mode: Playback



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

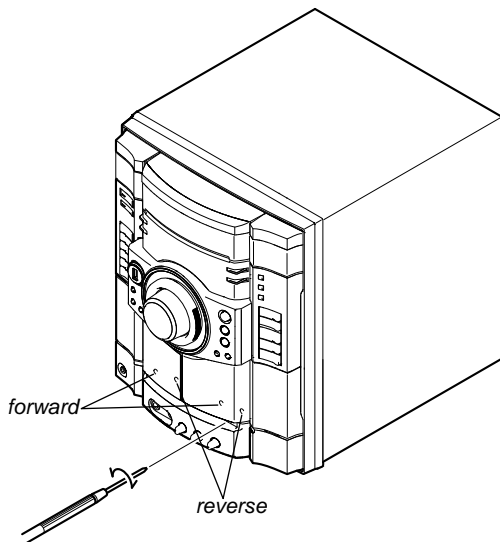


3. Mode: Playback



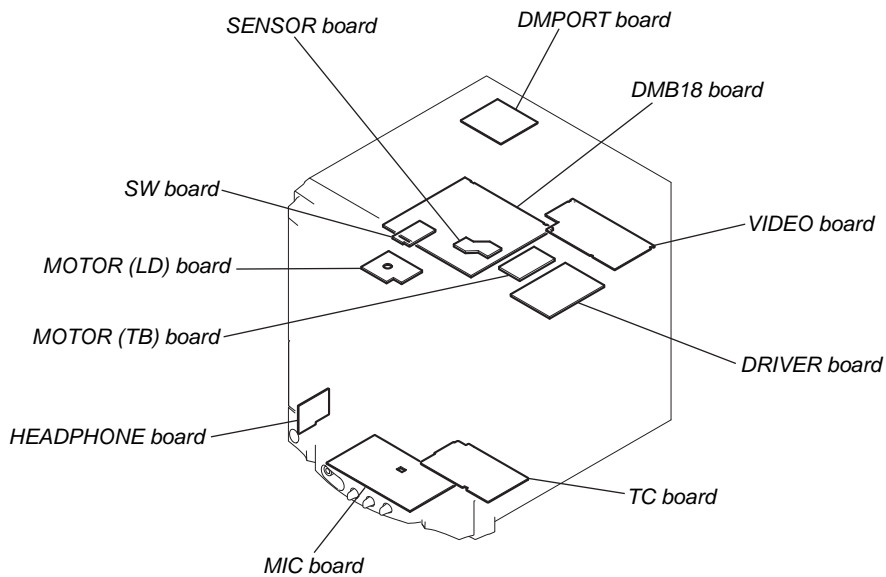
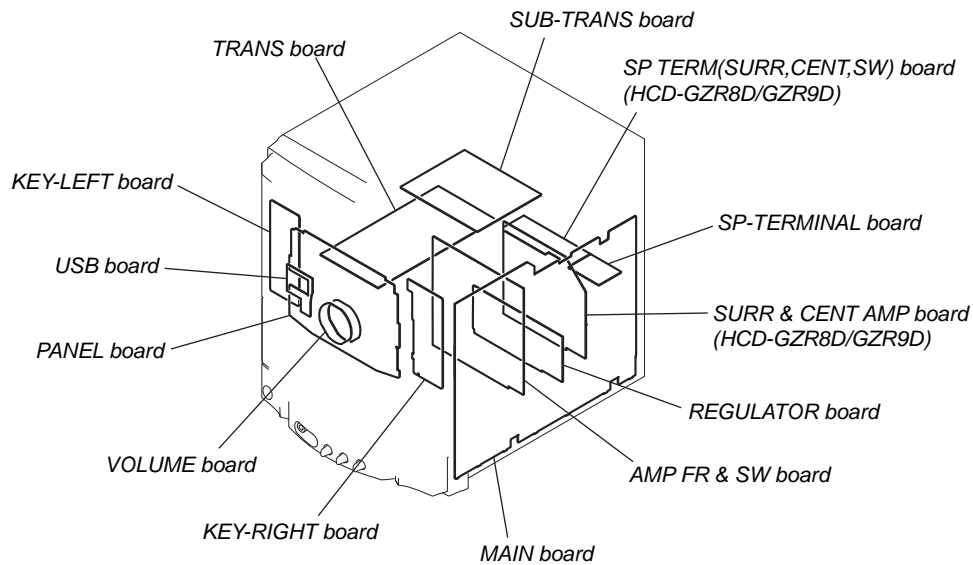
4. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location: Playback Head (Deck A)
Record/Playback/Erase Head (Deck B)

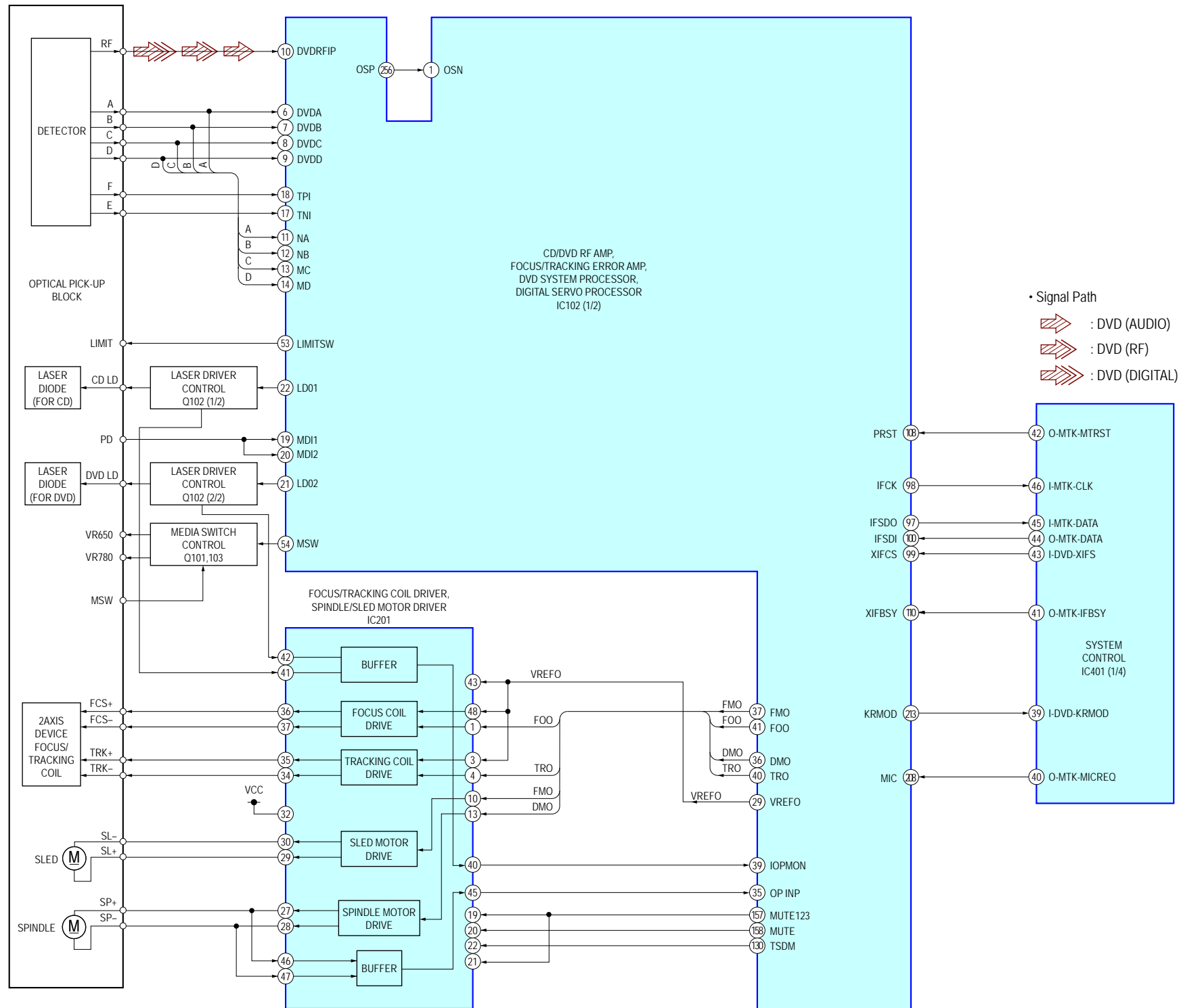


SECTION 7 DIAGRAMS

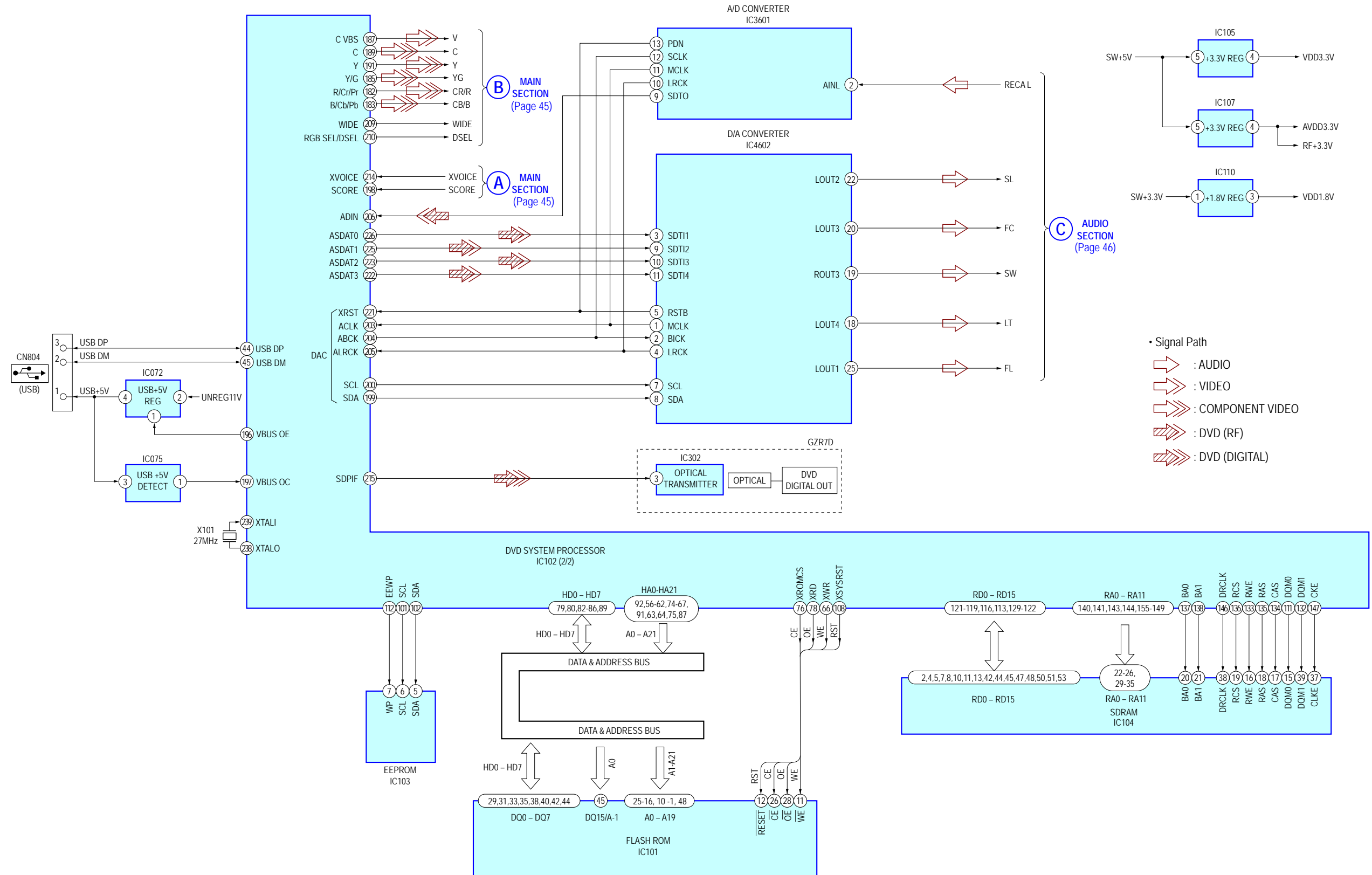
• Circuit Boards Location



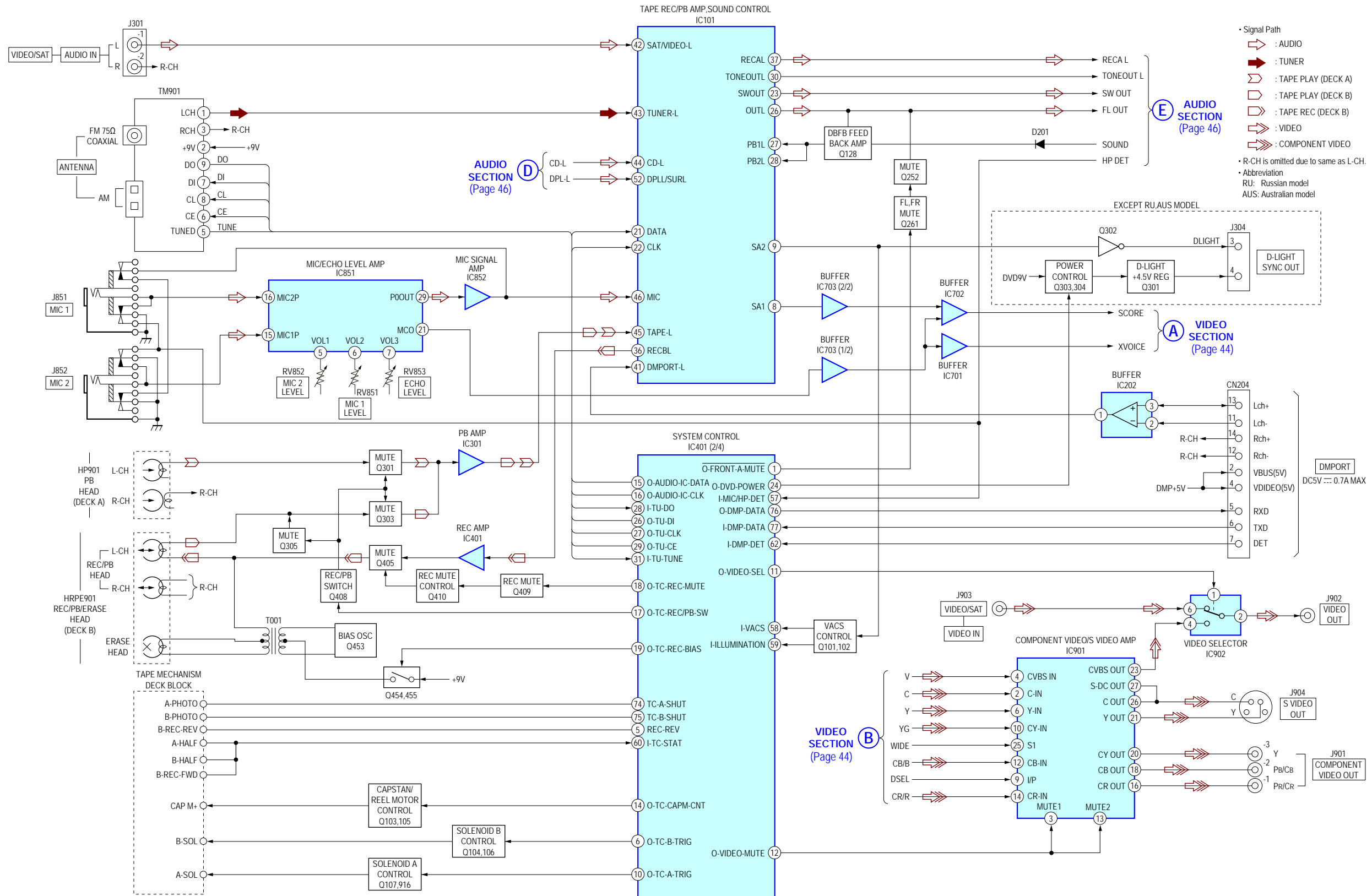
7-1. BLOCK DIAGRAM – RF/SERVO Section –



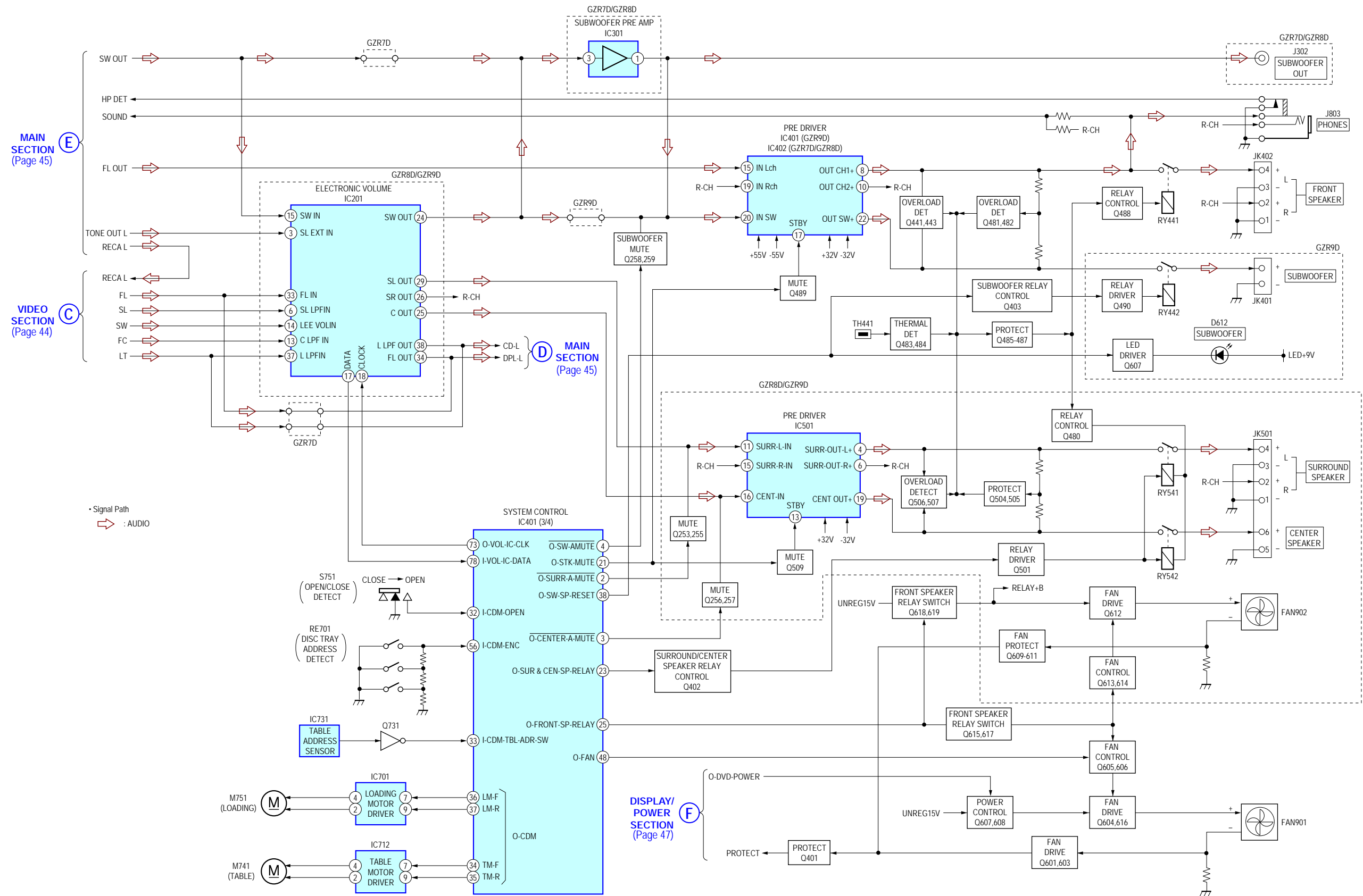
7-2. BLOCK DIAGRAM – VIDEO Section –



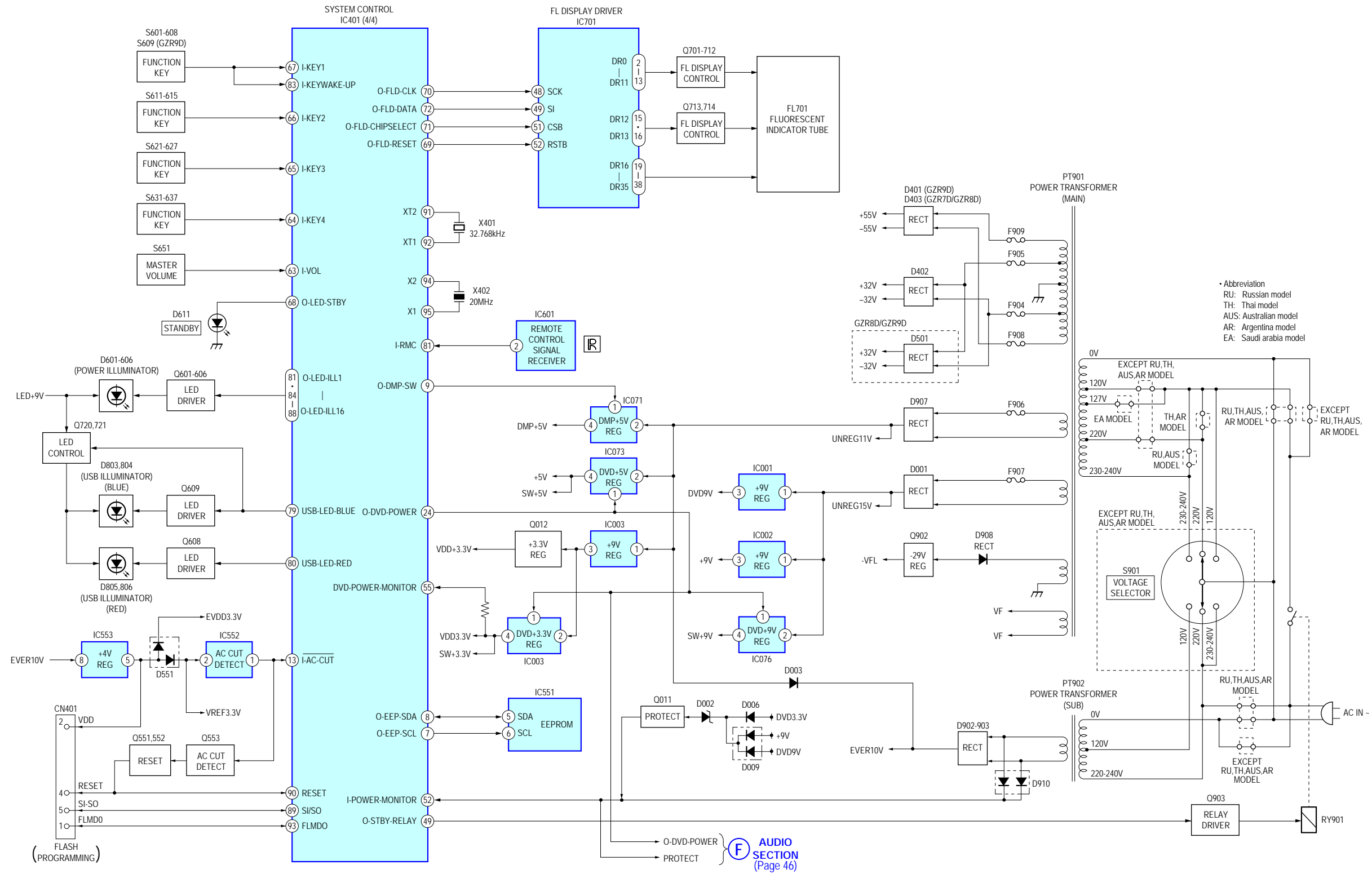
7-3. BLOCK DIAGRAM – MAIN Section –



7-4. BLOCK DIAGRAM – AUDIO Section –



7-5. BLOCK DIAGRAM – DISPLAY/POWER Section –



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

For Printed Wiring Boards.

Note:

- —: Parts extracted from the component side.
- : parts extracted from the conductor side.
- : 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
(Conductor Side) the pattern face are indicated.
Parts face side: Parts on the parts face side seen from
(Component Side) the parts face are indicated.

- Abbreviation
E2 : 120V AC area in E model
E3 : 240V AC area in E model
E12 : 220 – 240V AC area in E model
E15 : Iran model
PH : Philippines model
SP : Singapore model
TH : Thai model
AUS : Australian model
RU : Russian model
EA : Saudi Arabia model
AR : Argentina model

UNLEADED SOLDER

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

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

LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

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

For Schematic Diagrams.

Note:

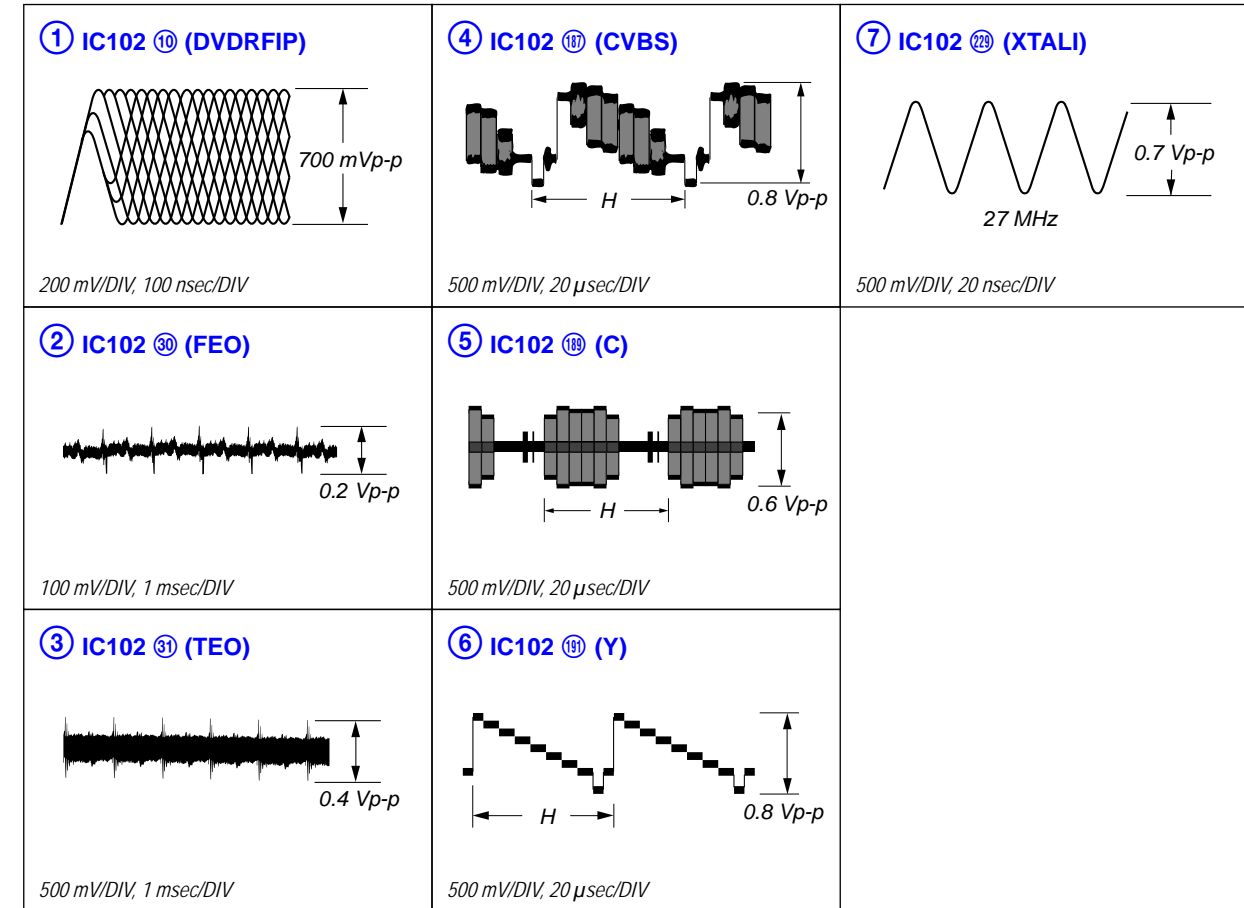
- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- : nonflammable resistor.
- : panel designation.

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

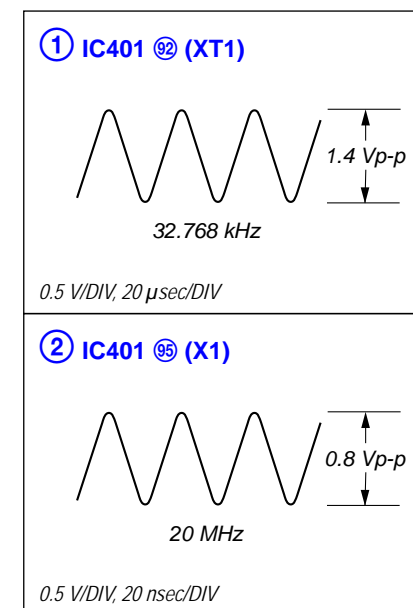
- : B+ Line.
- : B- Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark: FM
* : Impossible to measure
- Voltages are taken with VOM (Input impedance 10 M Ω).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 : AUDIO
 : TUNER
 : VIDEO
 : COMPONENT VIDEO
 : TAPE PLAY (DECK A)
 : TAPE PLAY (DECK B)
 : TAPE REC (DECK B)
 : DVD (AUDIO)
 : DVD (RF)
 : DVD (DIGITAL)
- Abbreviation
E2 : 120V AC area in E model
E3 : 240V AC area in E model
E12 : 220 – 240V AC area in E model
E15 : Iran model
PH : Philippines model
SP : Singapore model
TH : Thai model
AUS : Australian model
RU : Russian model
EA : Saudi Arabia model
AR : Argentina model


• Waveforms

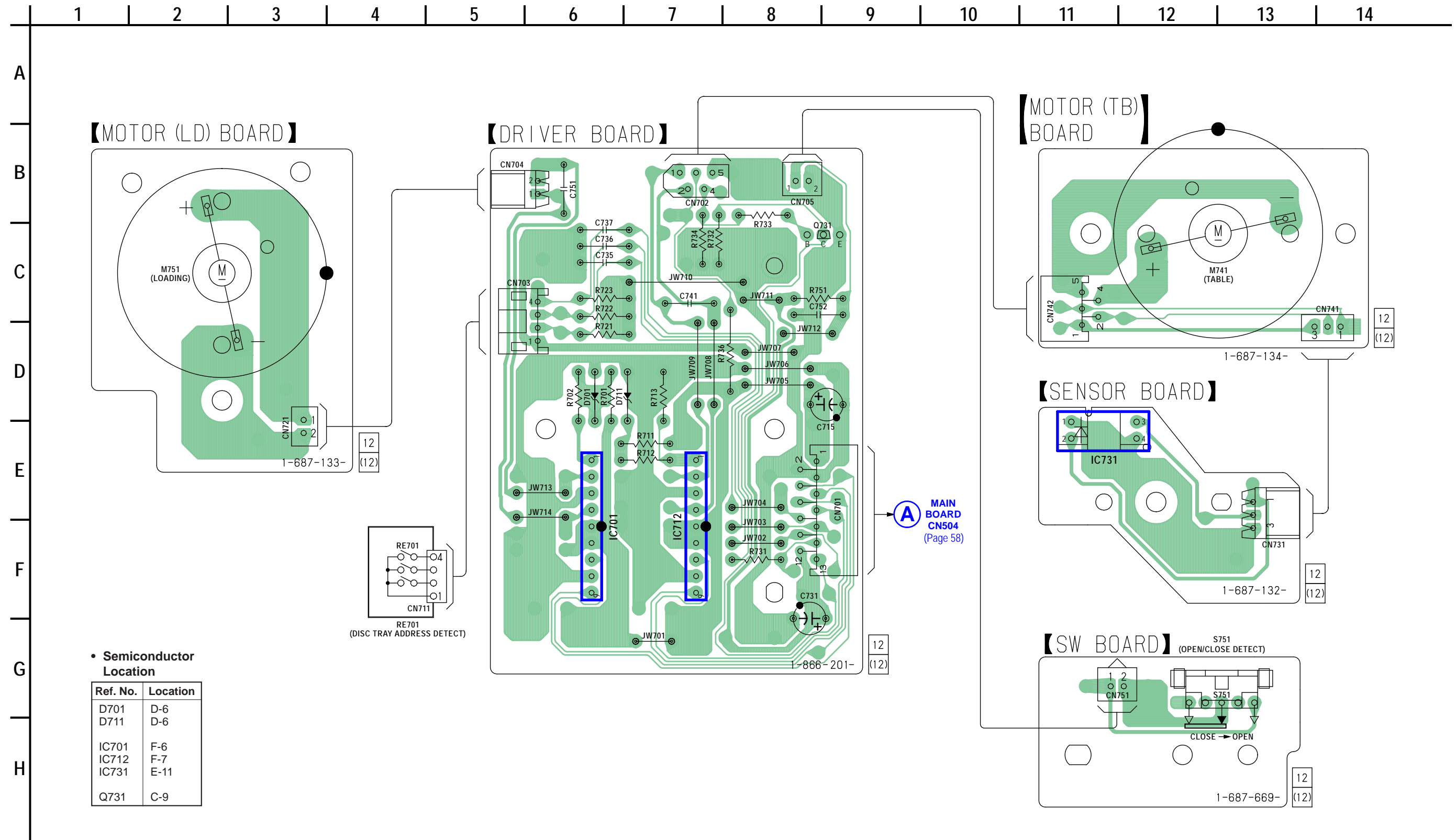
– DMB18 Board –



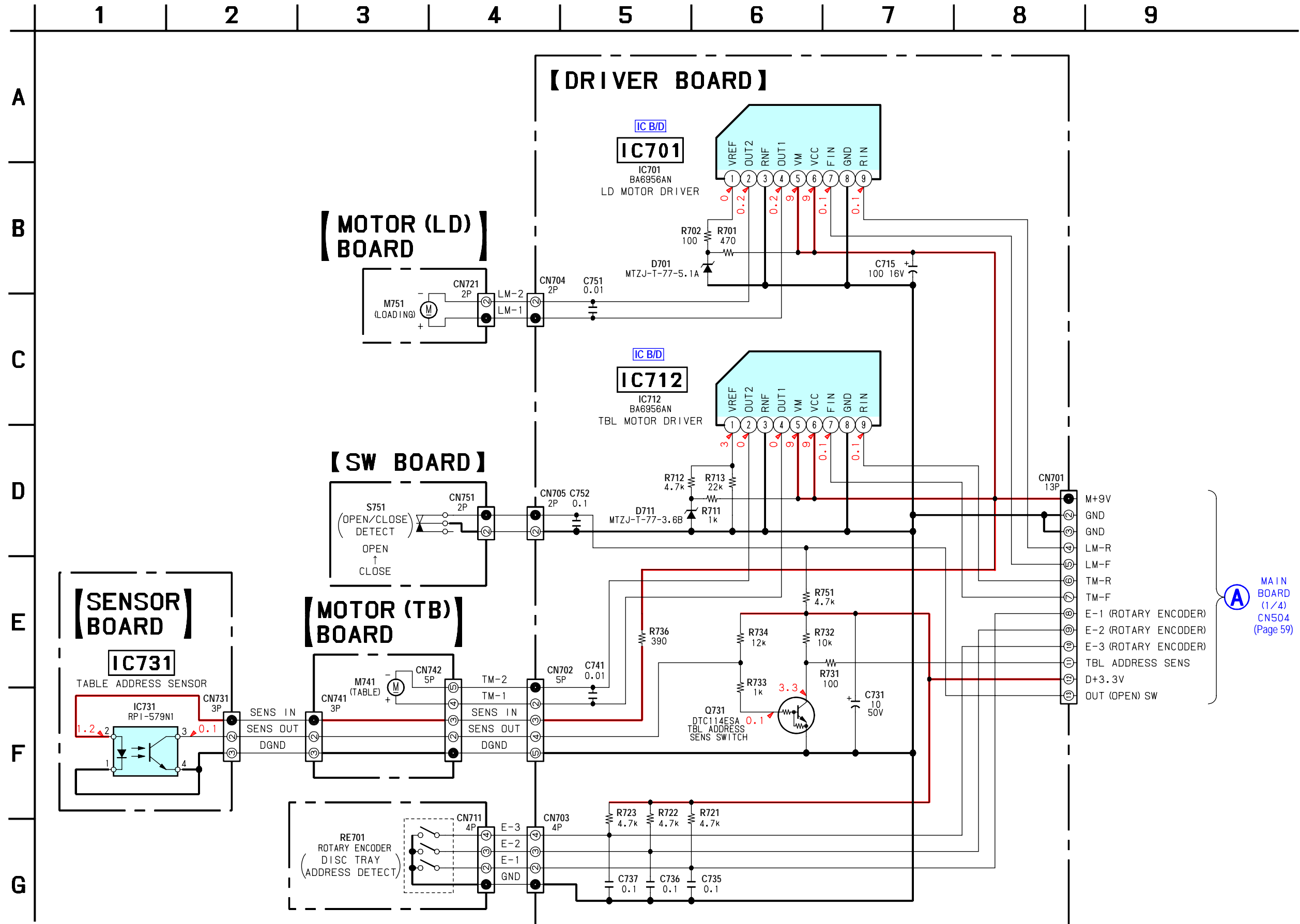
– MAIN Board –



7-6. PRINTED WIRING BOARDS – DRIVER Section – • See page 42 for Circuit Boards Location. •  : Uses unleaded solder.



7-7. SCHEMATIC DIAGRAM – DRIVER Section – • See page 81 for IC Block Diagrams.

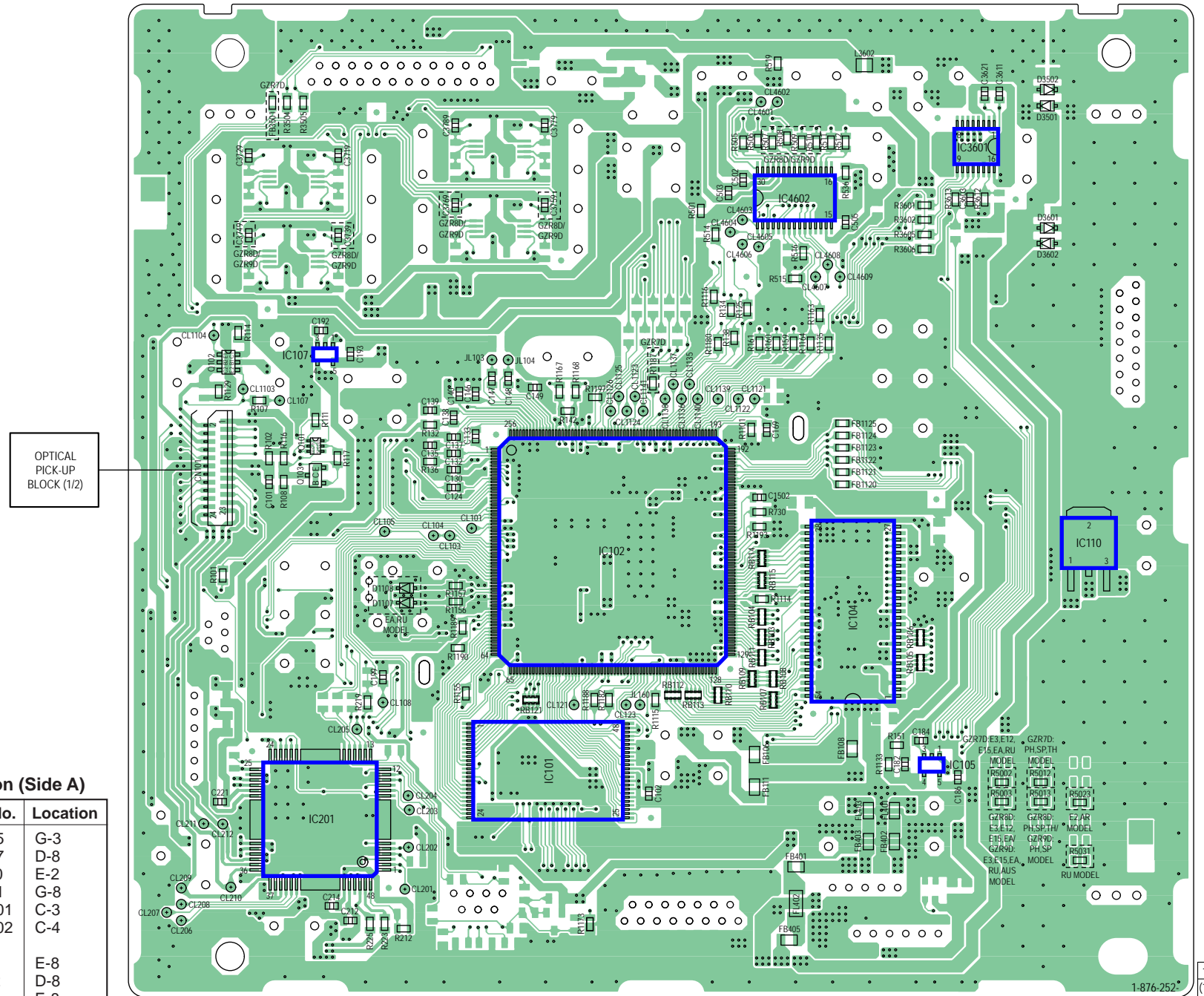


7-8. PRINTED WIRING BOARD – DMB18 Section (1/2) – • See page 42 for Circuit Boards Location. •  : Uses unleaded solder.

11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

A
B
C
D
E
F
G
H
I

【DMB18 BOARD】(SIDE A)

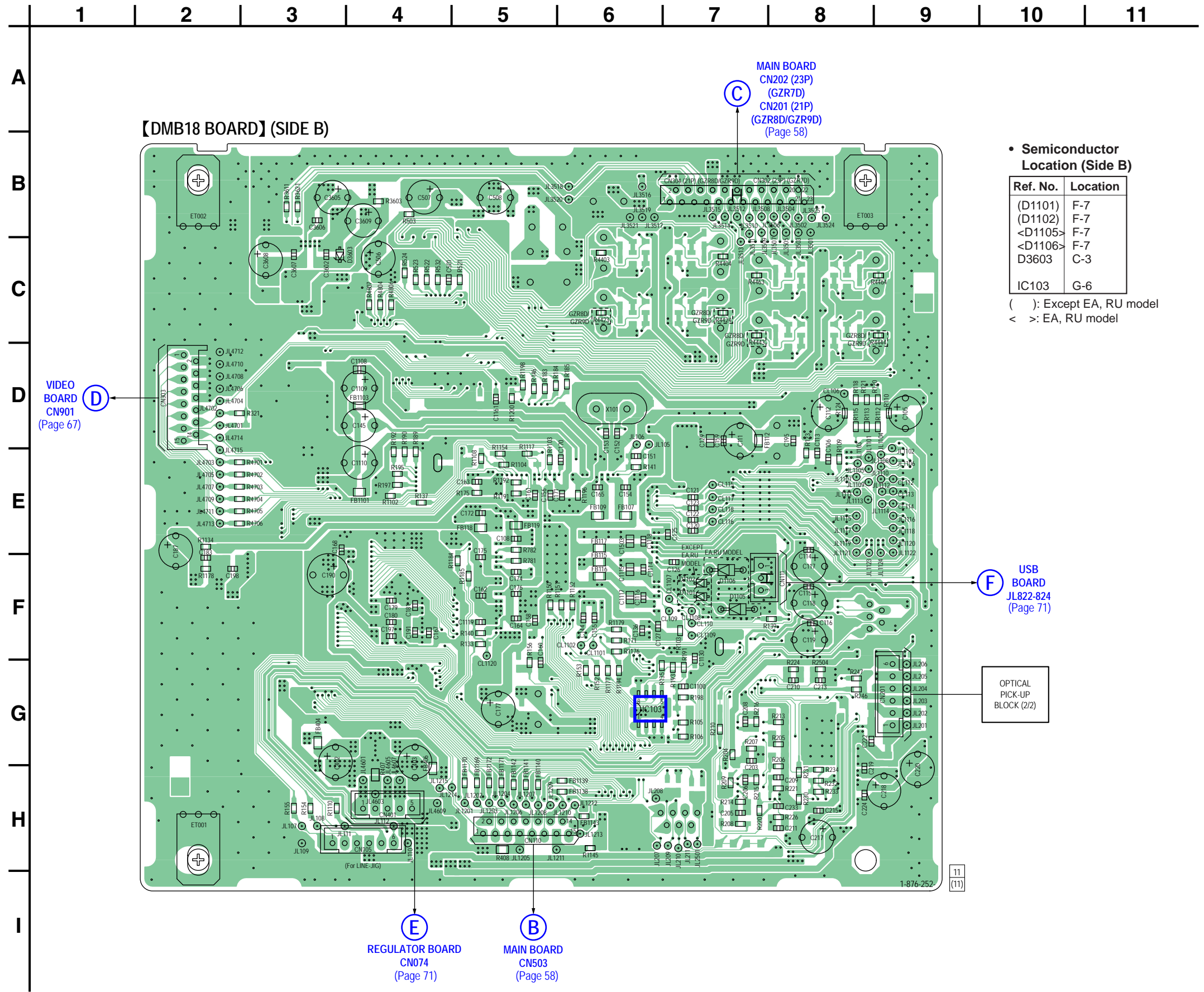


• Semiconductor Location (Side A)

Ref. No.	Location	Ref. No.	Location
(D1107)	F-7	IC105	G-3
(D1108)	F-7	IC107	D-8
D3501	B-3	IC110	E-2
D3502	B-3	IC201	G-8
D3601	C-3	IC3601	C-3
D3602	C-3	IC4602	C-4
IC101	G-6	Q101	E-8
IC102	F-6	Q102	D-8
IC104	F-4	Q103	E-8

(): EA, RU model

7-9. PRINTED WIRING BOARD – DMB18 Section (2/2) – • See page 42 for Circuit Boards Location. •  : Uses unleaded solder.

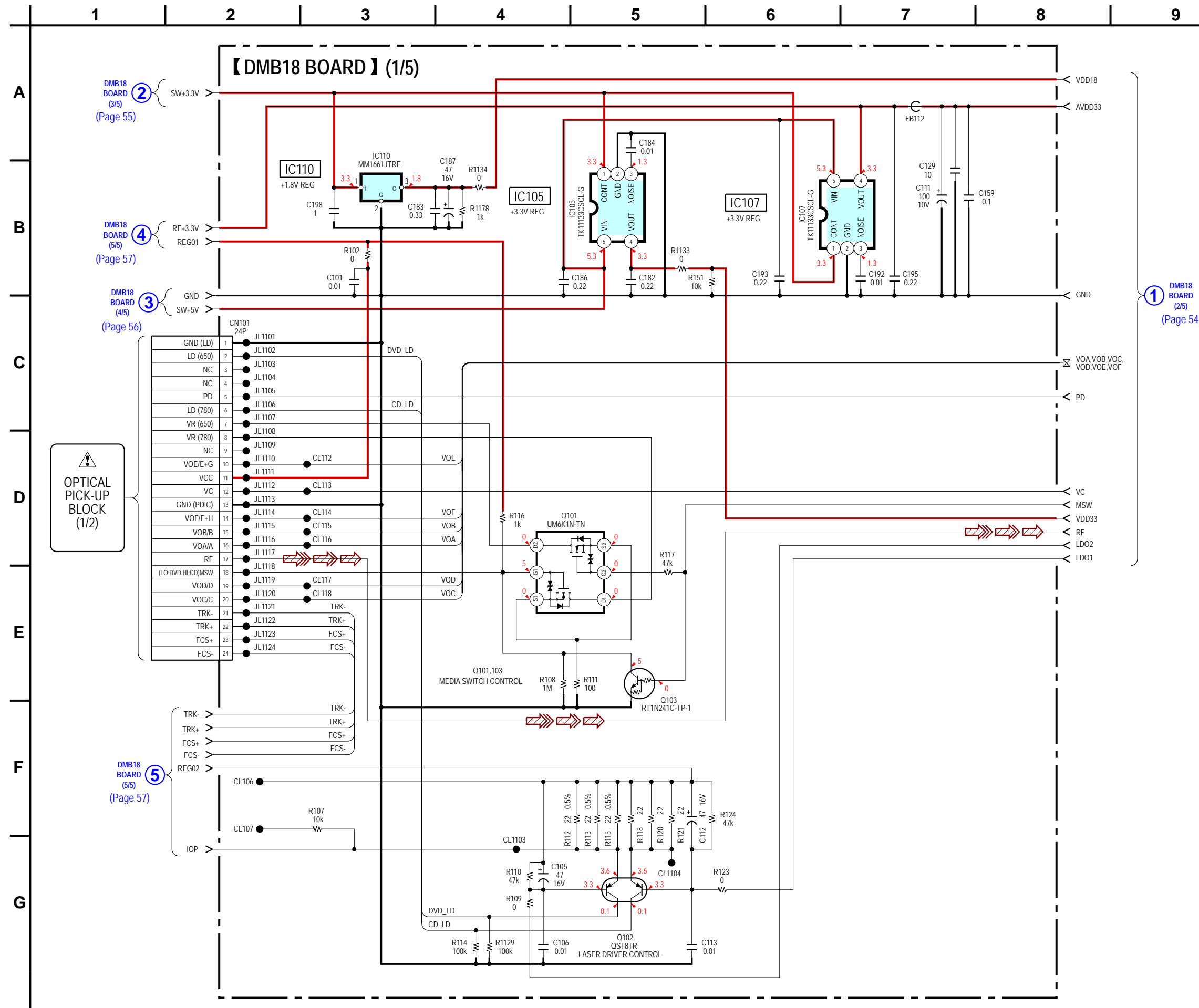


• Semiconductor Location (Side B)

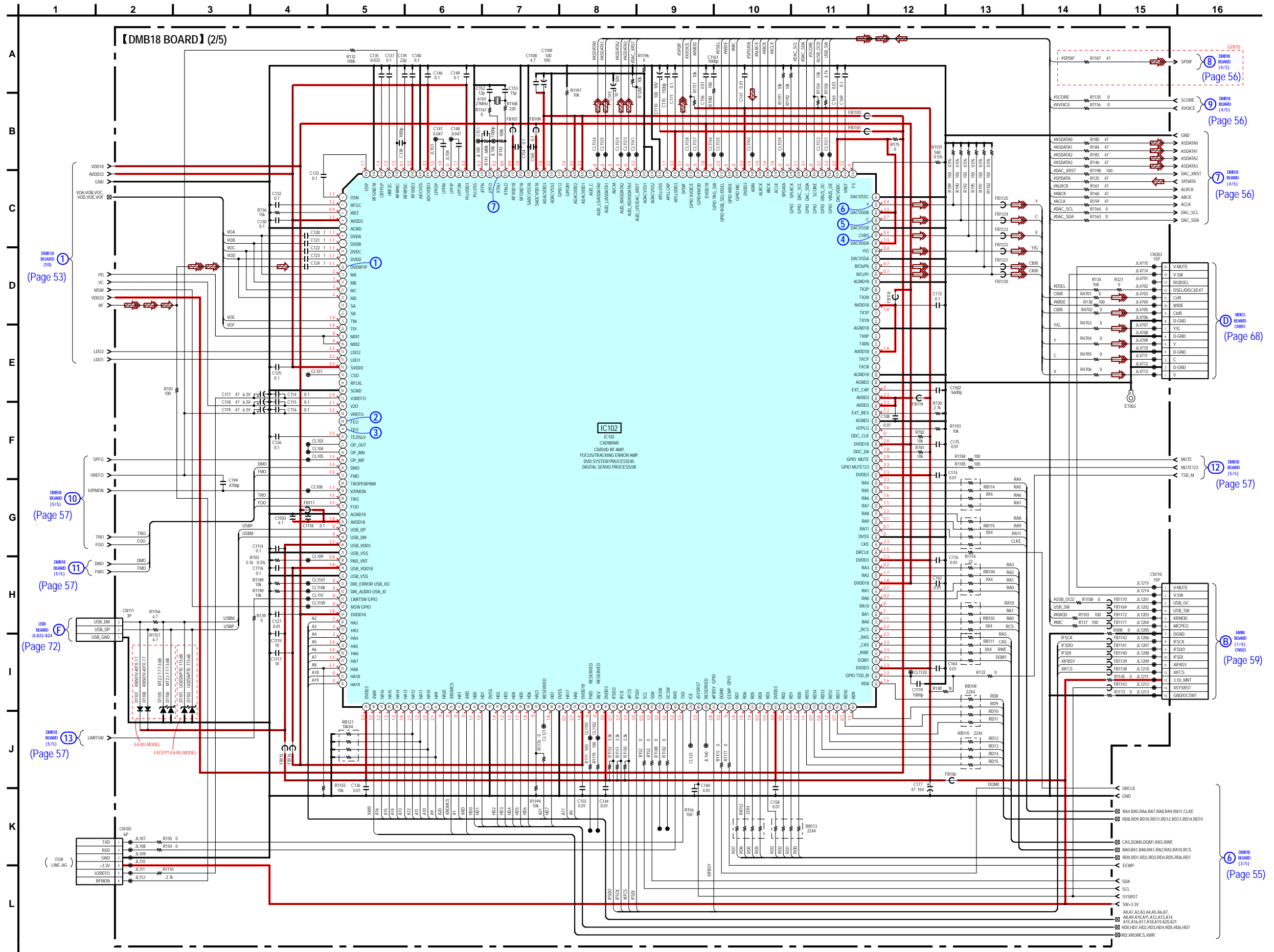
Ref. No.	Location
(D1101)	F-7
(D1102)	F-7
<D1105>	F-7
<D1106>	F-7
D3603	C-3
IC103	G-6

(): Except EA, RU model
< >: EA, RU model

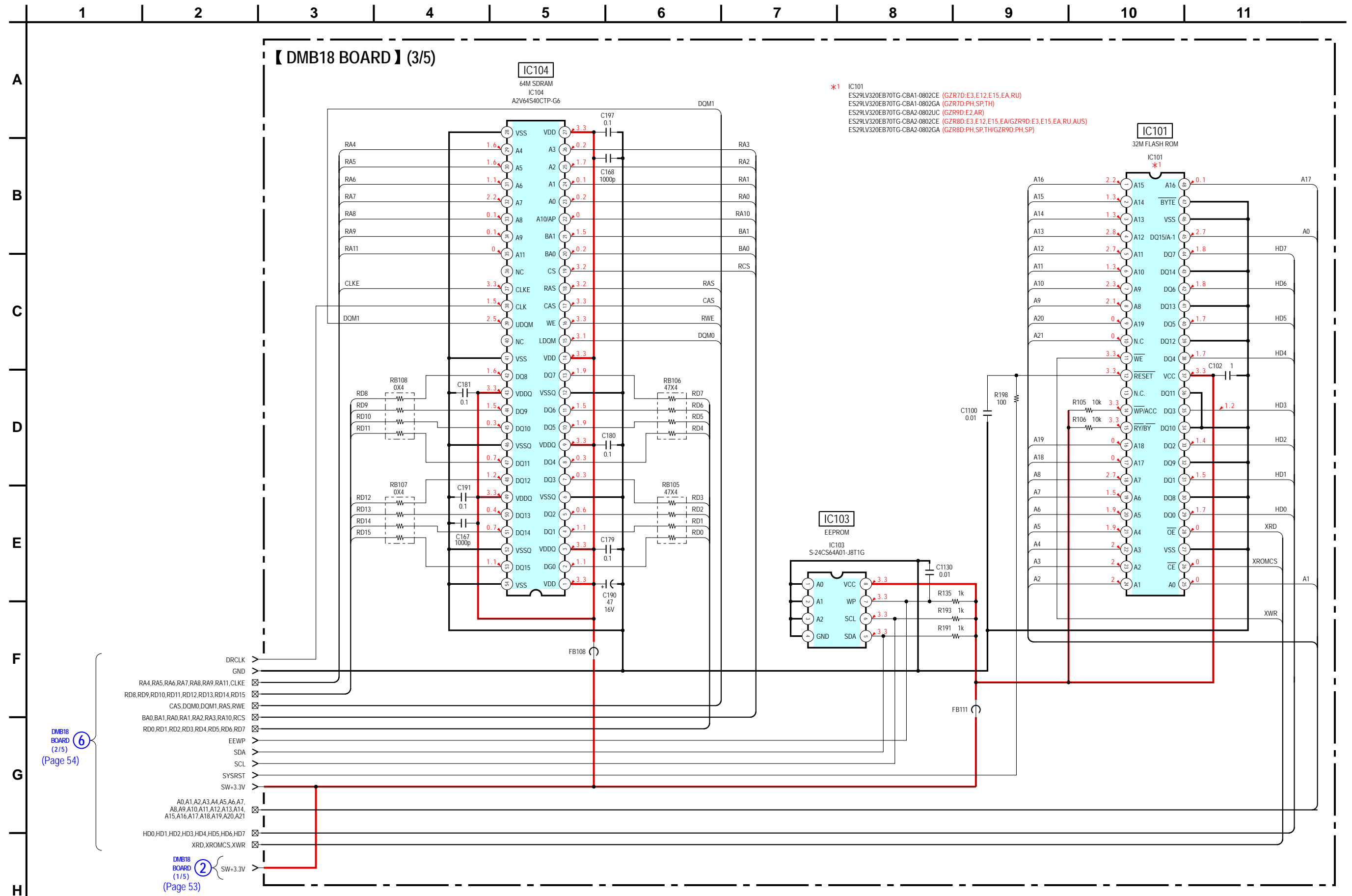
7-10. SCHEMATIC DIAGRAM – DMB18 Section (1/5) –



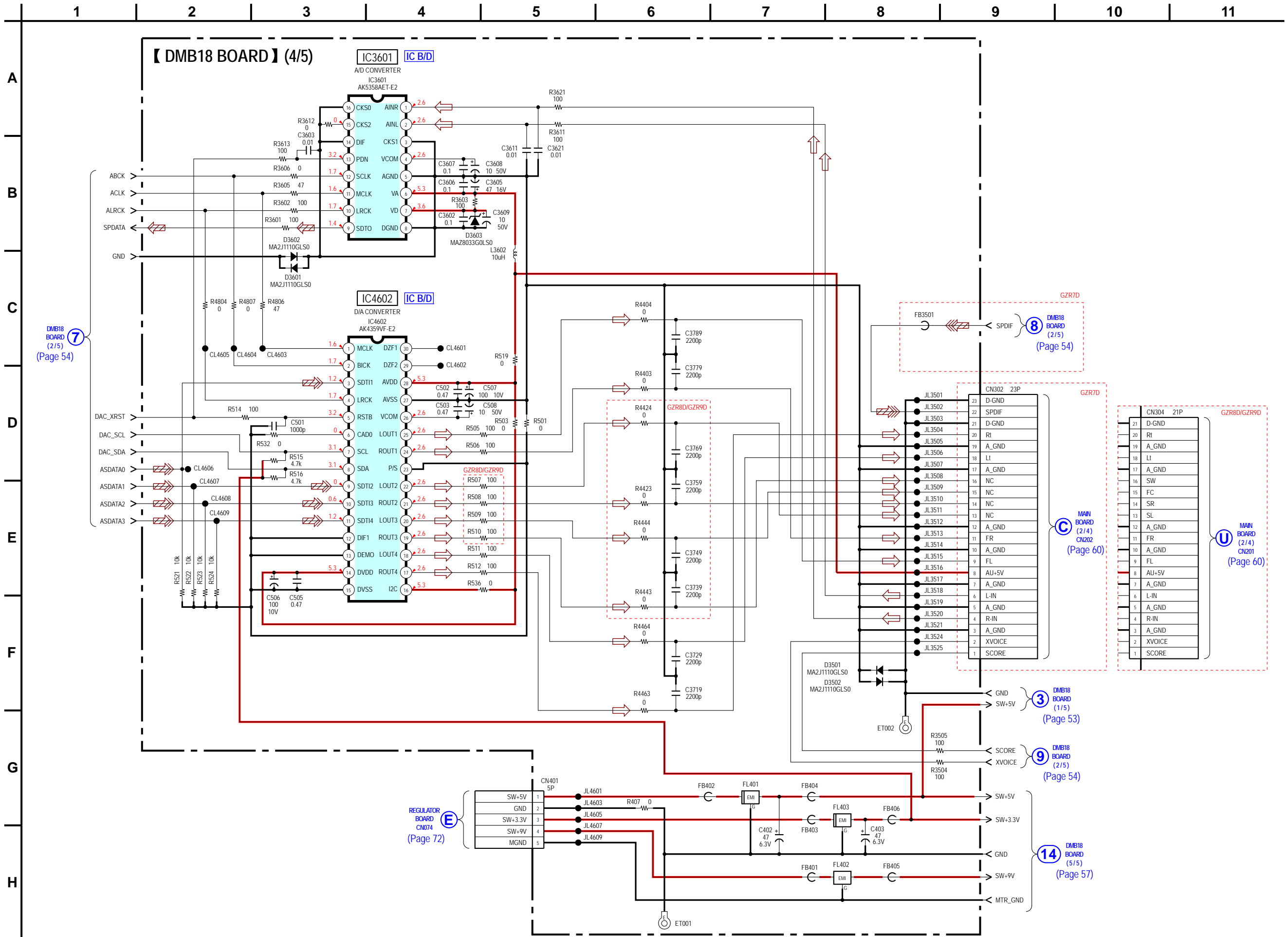
7-11. SCHEMATIC DIAGRAM – DMB18 Section (2/5) – • See page 48 for waveforms. • See page 87 for IC Pin Descriptions.



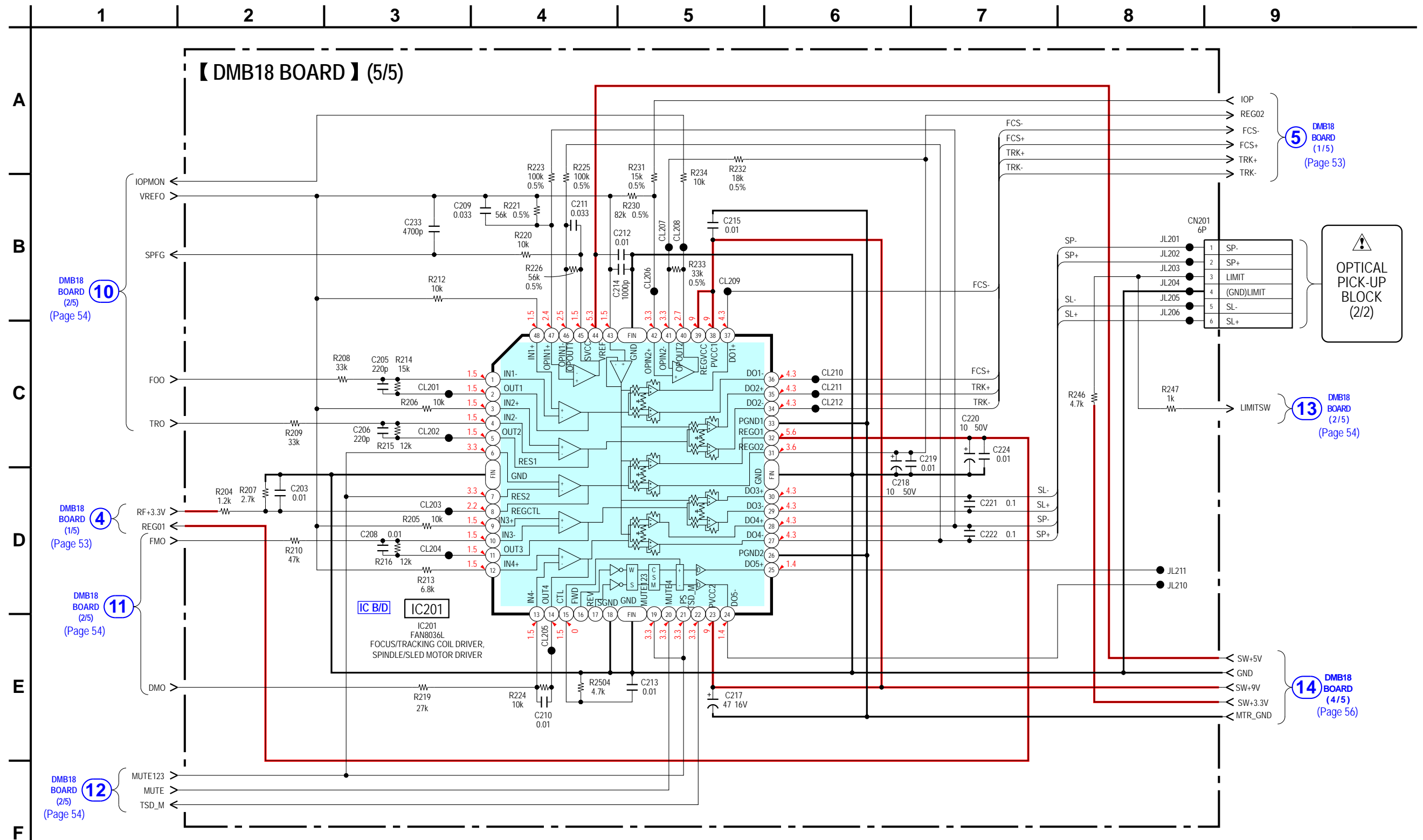
7-12. SCHEMATIC DIAGRAM – DMB18 Section (3/5) –



7-13. SCHEMATIC DIAGRAM – DMB18 Section (4/5) – • See page 81 for IC Block Diagrams.




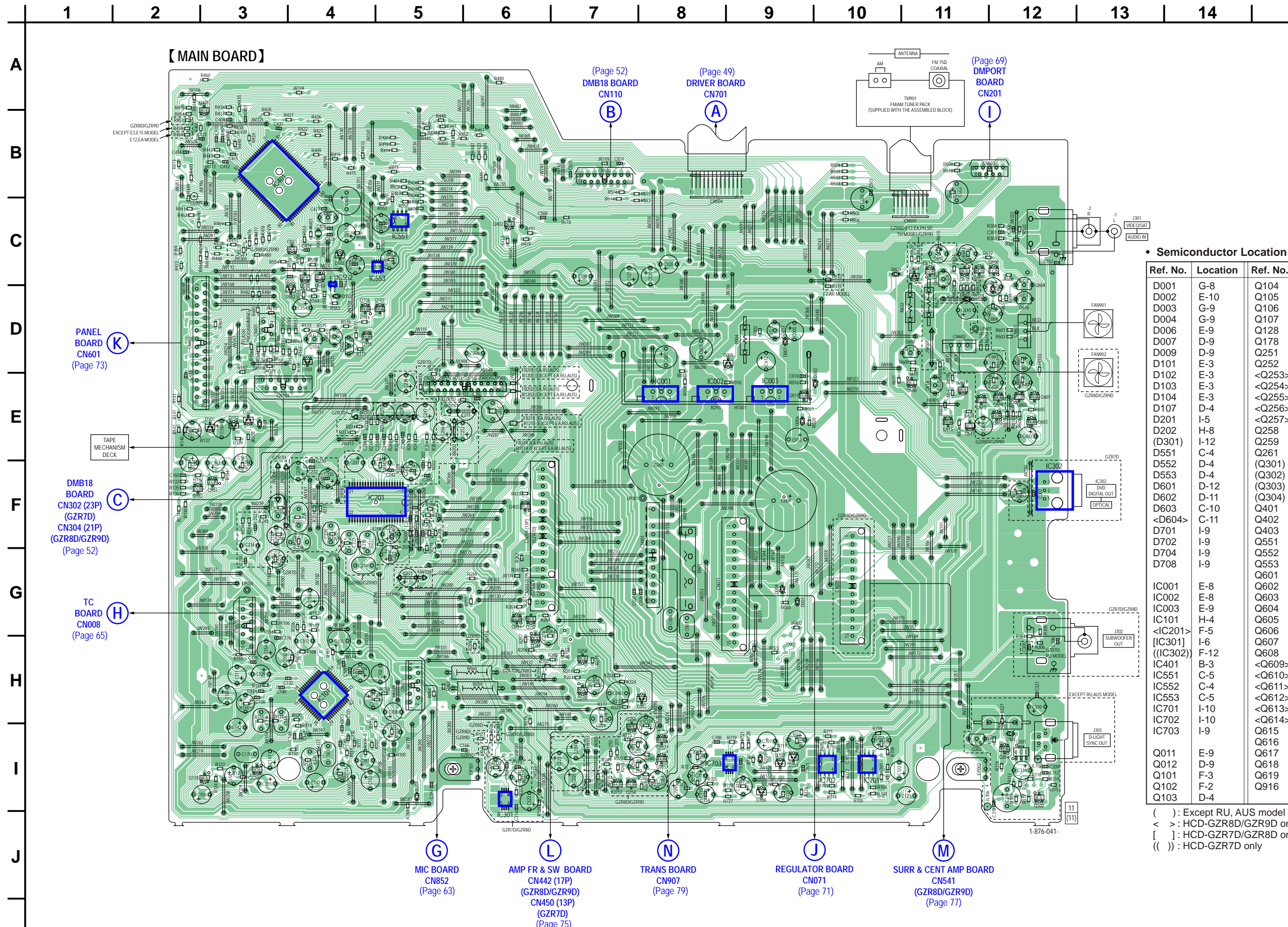
7-14. SCHEMATIC DIAGRAM – DMB18 Section (5/5) – • See page 82 for IC Block Diagrams.



HCD-GZR7D/GZR8D/GZR9D

Ver. 1.1

7-15. PRINTED WIRING BOARD – MAIN Section – • See page 42 for Circuit Boards Location. •  : Uses unleaded solder.

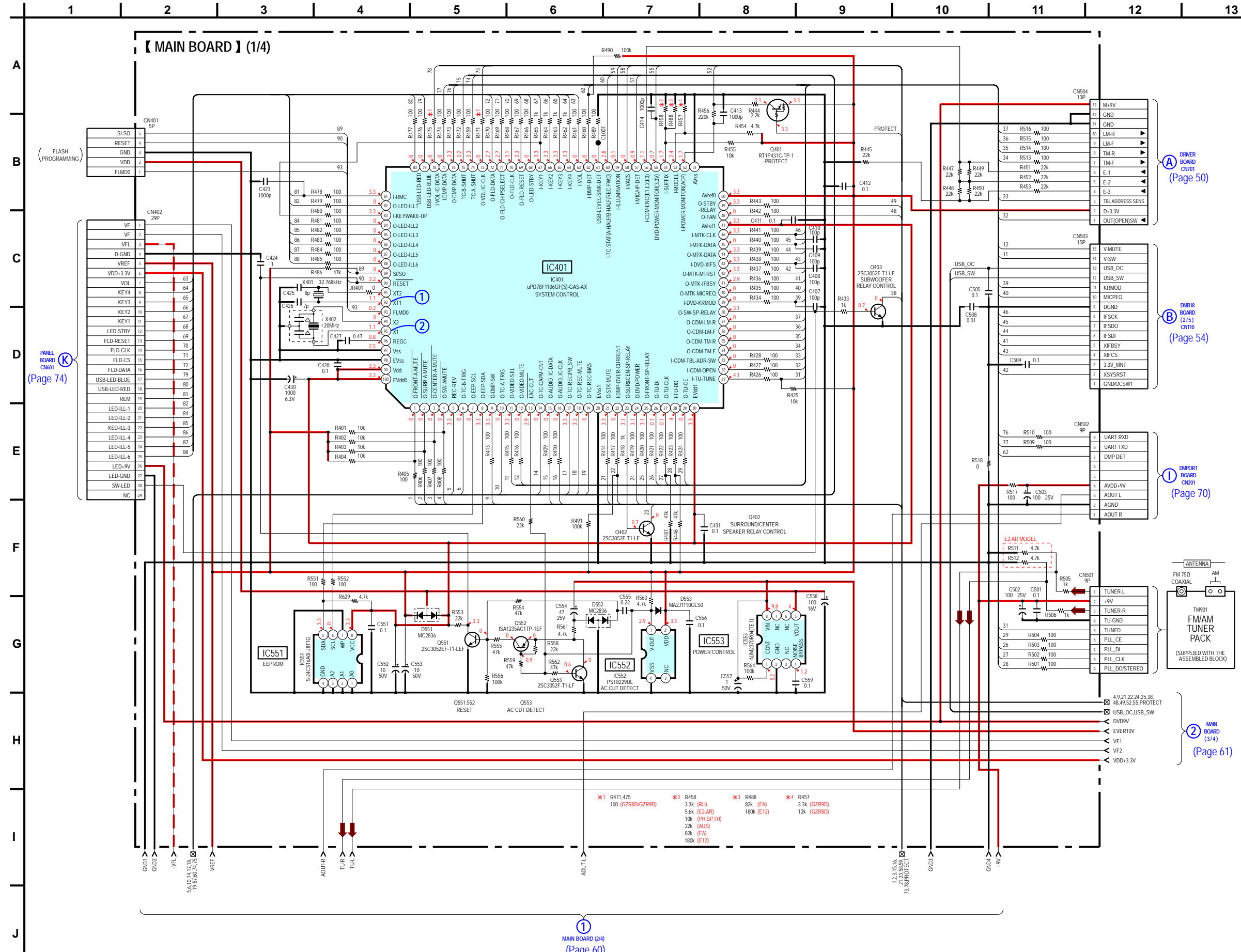


• Semiconductor Location

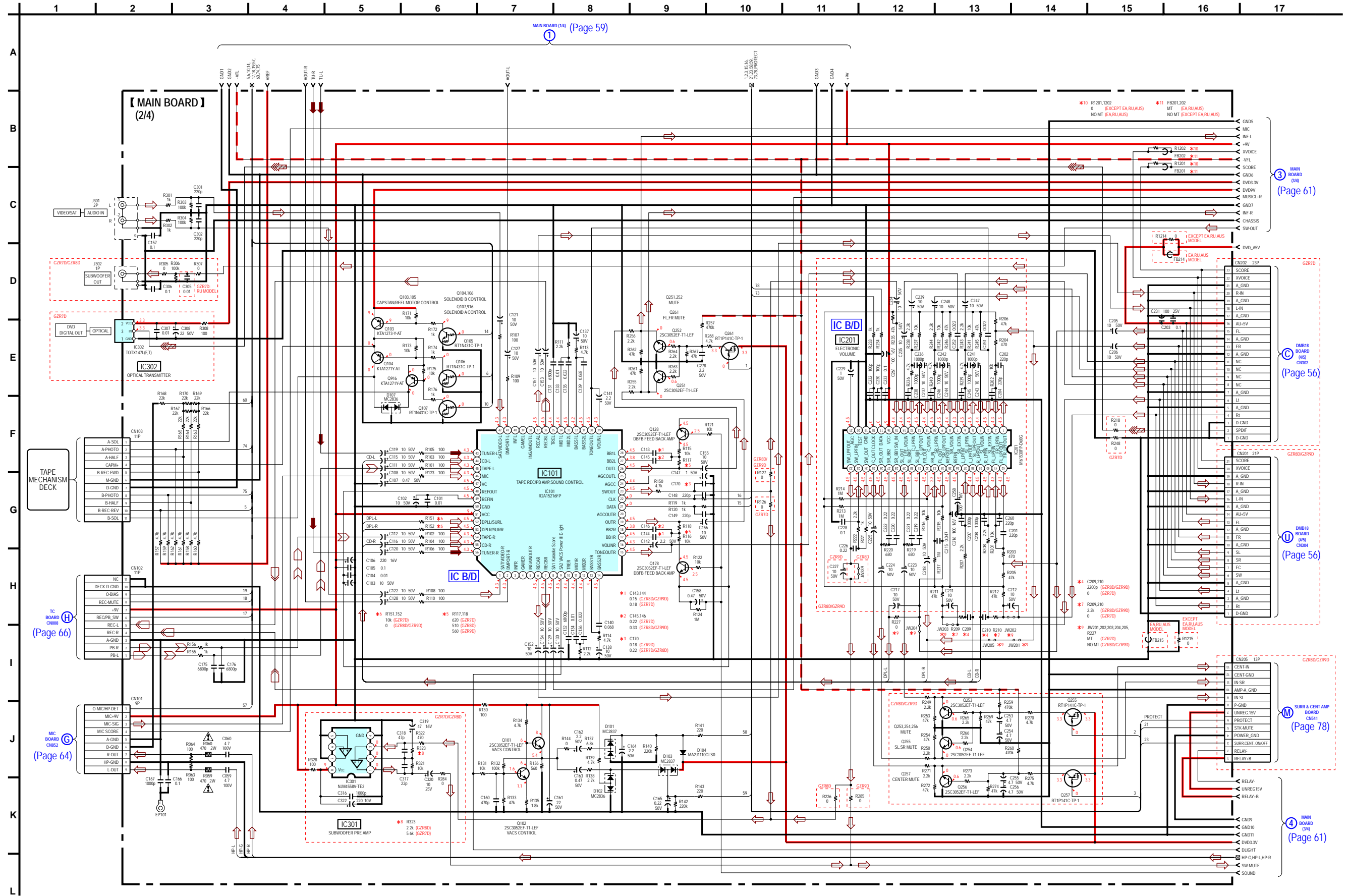
Ref. No.	Location	Ref. No.	Location
D001	G-8	Q104	D-4
D002	E-10	Q105	D-4
D003	G-9	Q106	D-4
D004	G-9	Q107	D-5
D006	E-9	Q128	I-3
D007	D-9	Q178	I-3
D009	D-9	Q251	G-6
D101	E-3	Q252	G-6
D102	E-3	<Q253>	I-7
D103	E-3	<Q254>	I-7
D104	E-3	<Q255>	I-8
D107	D-4	<Q256>	I-7
D201	I-5	<Q257>	I-8
D202	H-8	Q258	H-7
(D301)	I-12	Q259	H-7
D551	C-4	Q261	H-6
D552	D-4	(Q301)	I-12
D553	D-4	(Q302)	I-12
D601	D-12	(Q303)	I-11
D602	D-11	(Q304)	I-12
D603	C-10	Q401	A-3
<D604>	C-11	Q402	C-6
D701	I-9	Q403	F-6
D702	I-9	Q551	C-4
D704	I-9	Q552	C-4
D708	I-9	Q553	C-4
		Q601	E-12
		Q602	E-12
IC001	E-8	Q603	E-12
IC002	E-8	Q604	C-12
IC003	E-9	Q605	C-11
IC101	H-4	Q606	C-12
<IC201>	F-5	Q607	D-11
[(IC301)	I-6	Q608	E-11
((IC302)	F-12	<Q609>	E-12
IC401	B-3	<Q610>	E-11
IC401	B-3	<Q611>	E-12
IC551	C-5	<Q612>	C-11
IC552	C-4	<Q613>	C-11
IC553	C-5	<Q614>	C-11
IC701	I-10	Q615	E-11
IC702	I-10	Q616	D-12
IC703	I-9	Q617	E-11
		Q618	E-11
		Q619	E-11
		Q916	D-4

() : Except RU, AUS model
 < > : HCD-GZR8D/GZR9D only
 [] : HCD-GZR7D/GZR8D only
 (()) : HCD-GZR7D only

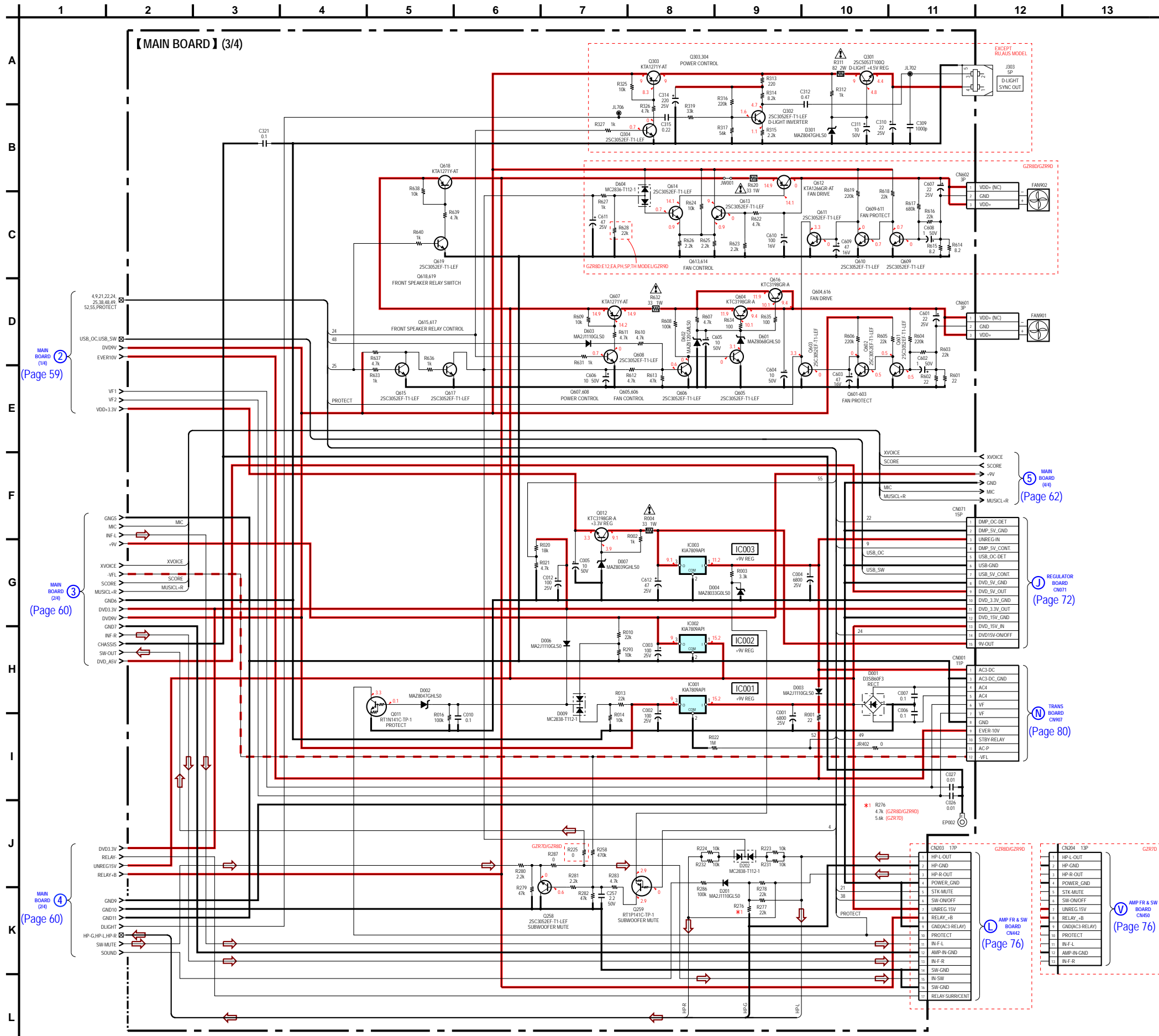
7-16. SCHEMATIC DIAGRAM – MAIN Section (1/4) – • See page 48 for waveforms. • See page 91 for IC Pin Descriptions.



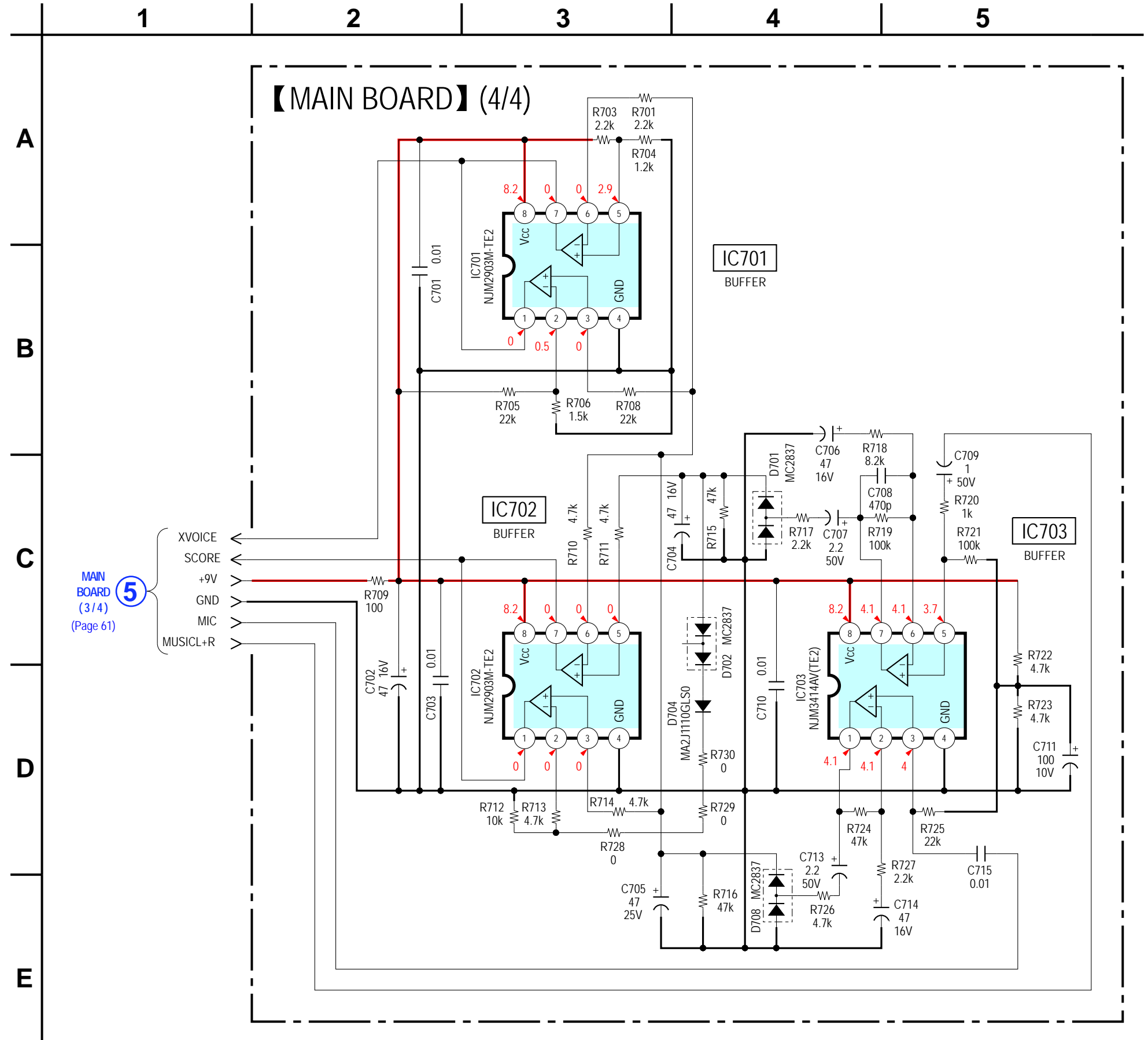
7-17. SCHEMATIC DIAGRAM – MAIN Section (2/4) – • See page 83 for IC Block Diagrams.



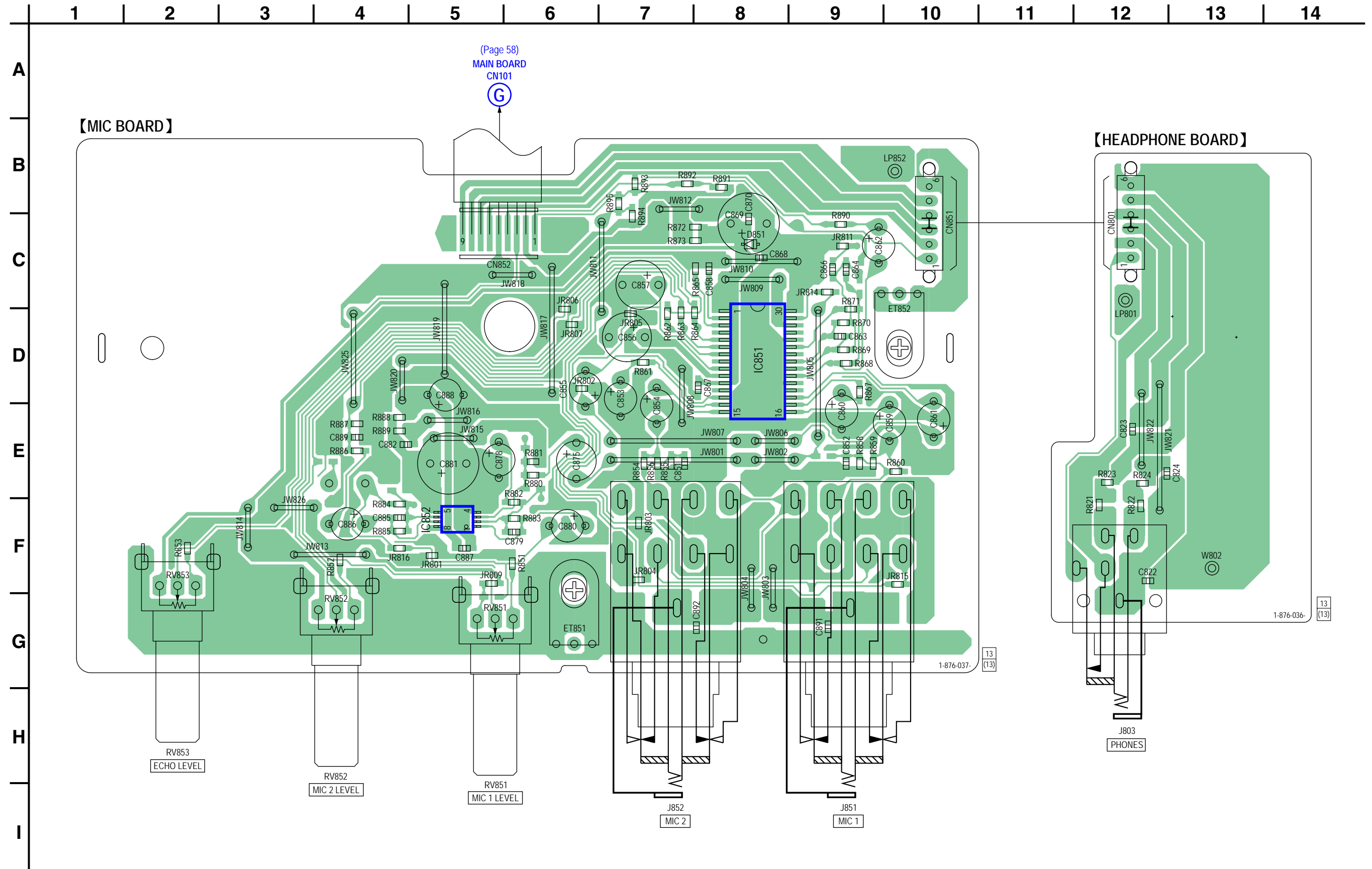
7-18. SCHEMATIC DIAGRAM – MAIN Section (3/4) –



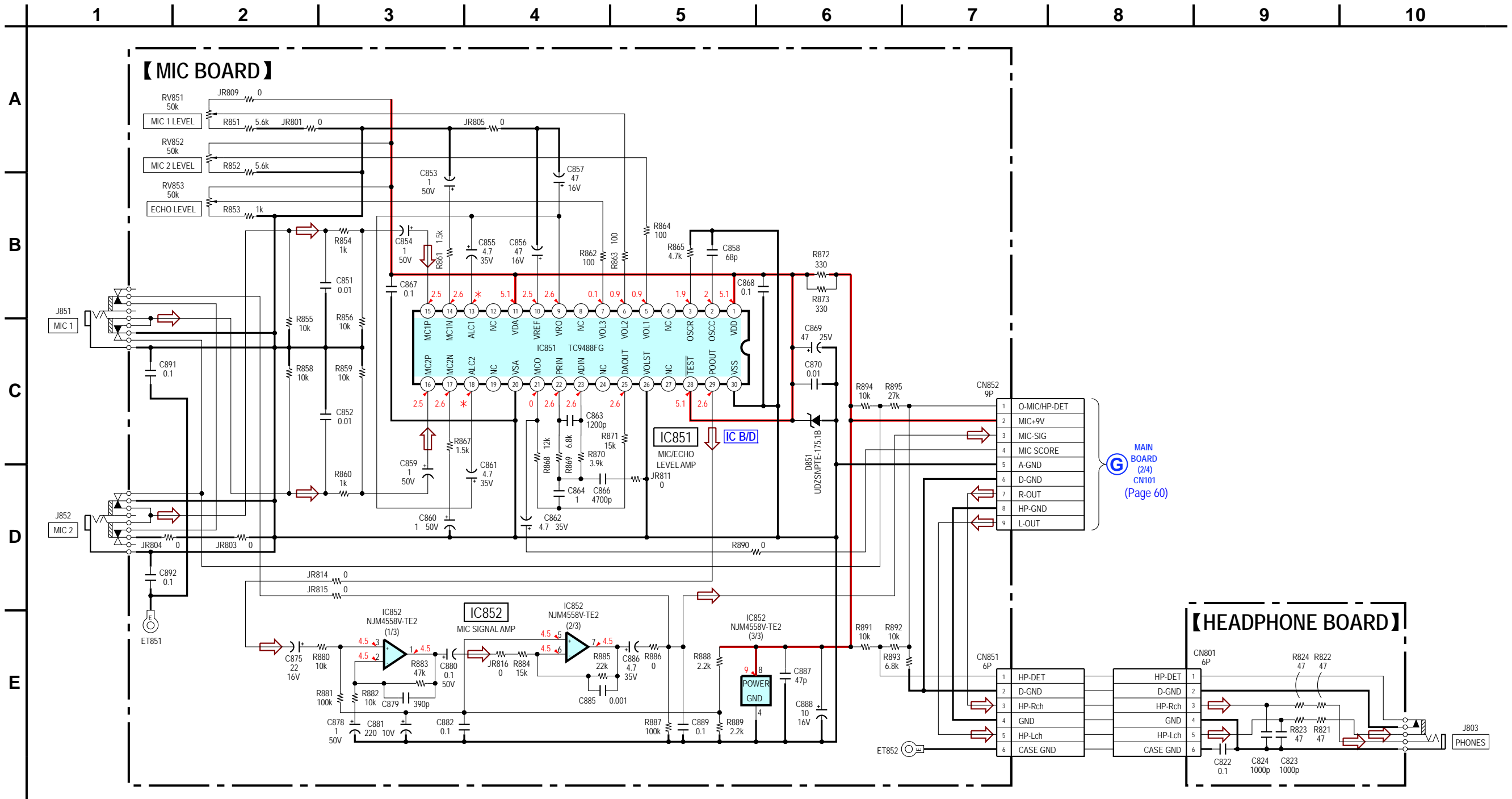
7-19. SCHEMATIC DIAGRAM – MAIN Section (4/4) –



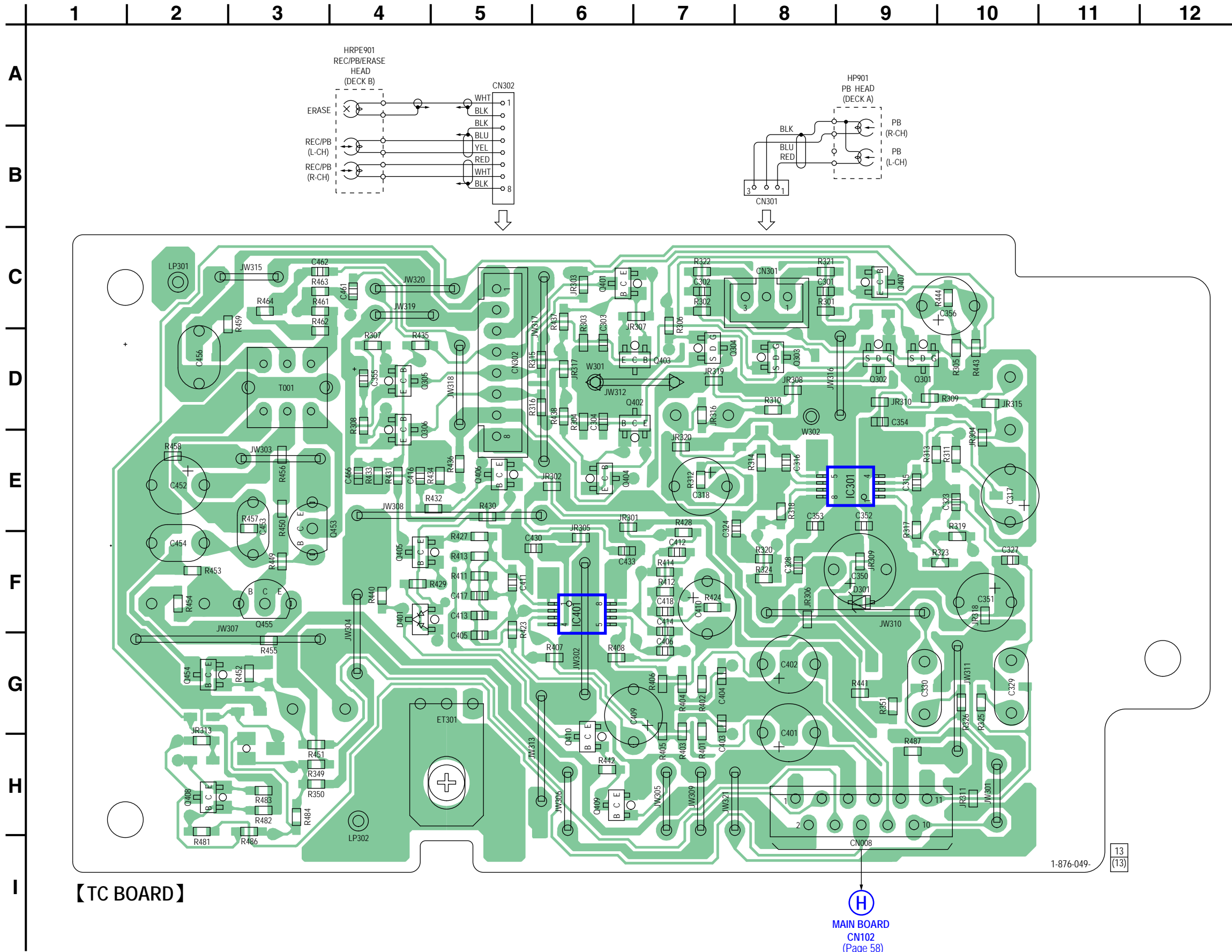
7-20. PRINTED WIRING BOARDS – MIC/HEADPHONE Section – • See page 42 for Circuit Boards Location. •  : Uses unleaded solder.



7-21. SCHEMATIC DIAGRAM – MIC/HEADPHONE Section – • See page 85 for IC Block Diagrams.



7-22. PRINTED WIRING BOARD – TC Section – • See page 42 for Circuit Boards Location. •  : Uses unleaded solder.



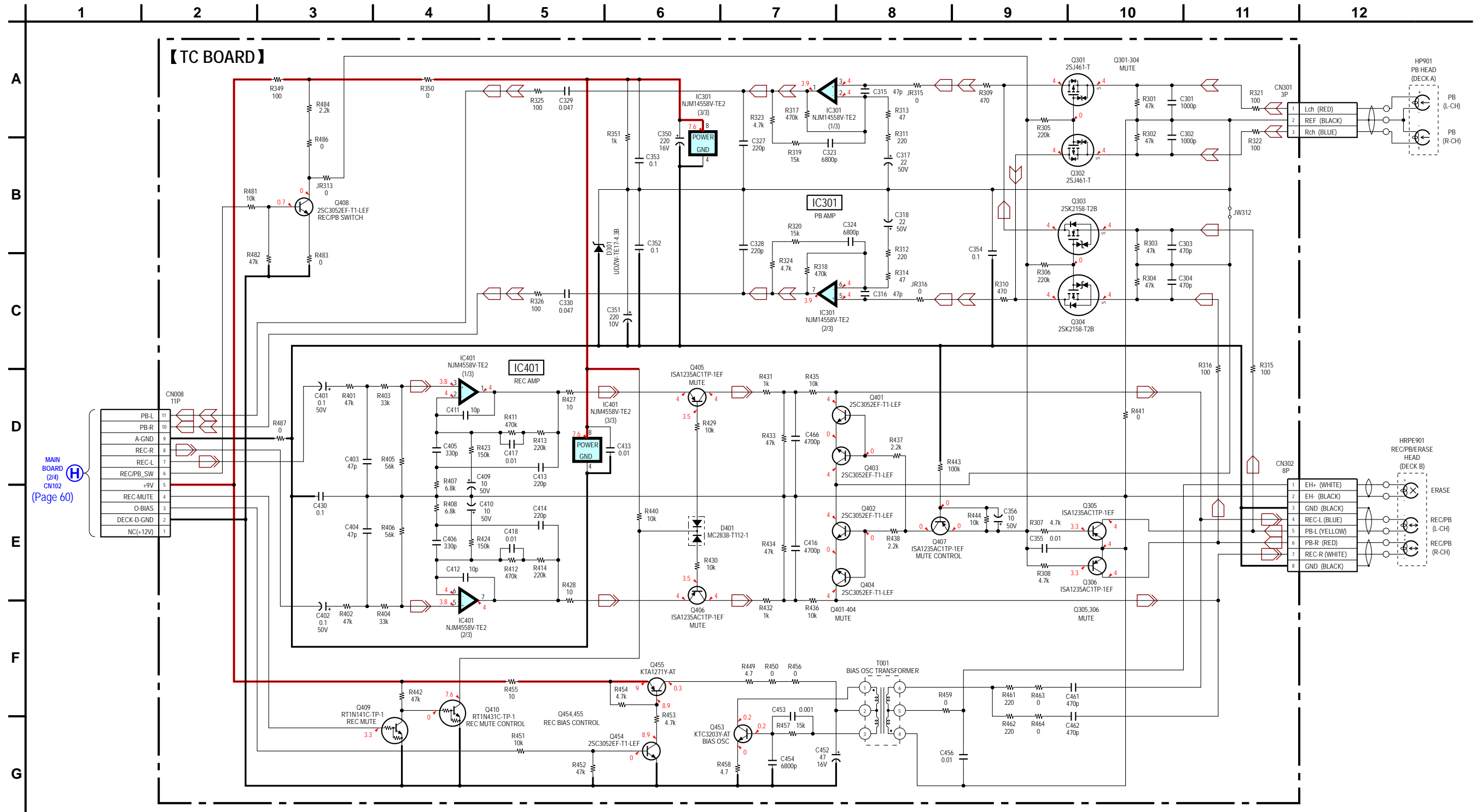
• Semiconductor Location


Ref. No.	Location
D301	F-9
D401	F-4
IC301	E-9
IC401	F-6
Q301	D-9
Q302	D-9
Q303	D-8
Q304	D-7
Q305	D-4
Q306	D-4
Q401	C-6
Q402	D-7
Q403	D-7
Q404	E-6
Q405	F-4
Q406	E-5
Q407	C-9
Q408	H-2
Q409	H-6
Q410	H-6
Q453	E-3
Q454	H-2
Q455	F-3

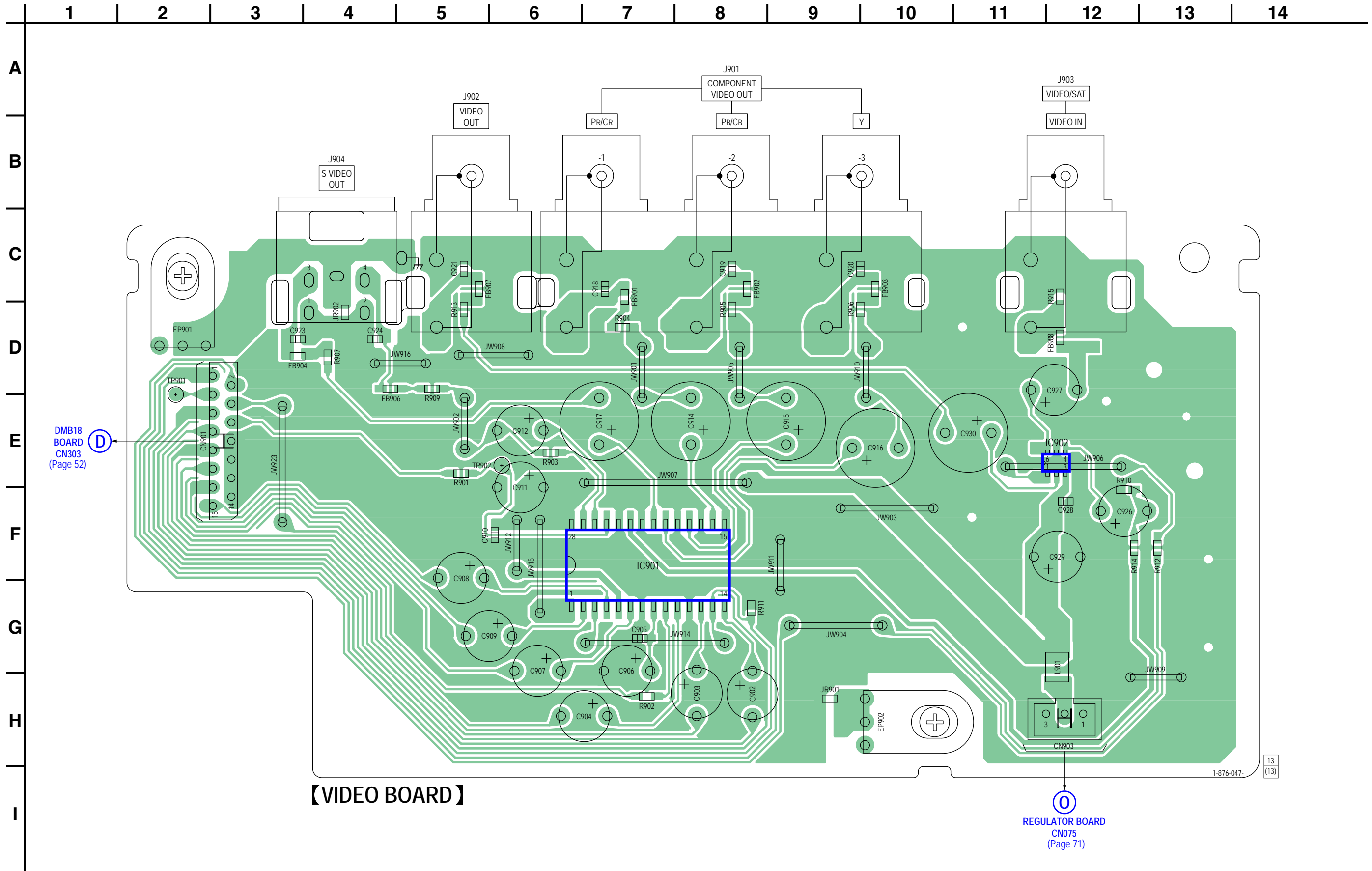
【TC BOARD】

H
MAIN BOARD
CN102
(Page 58)

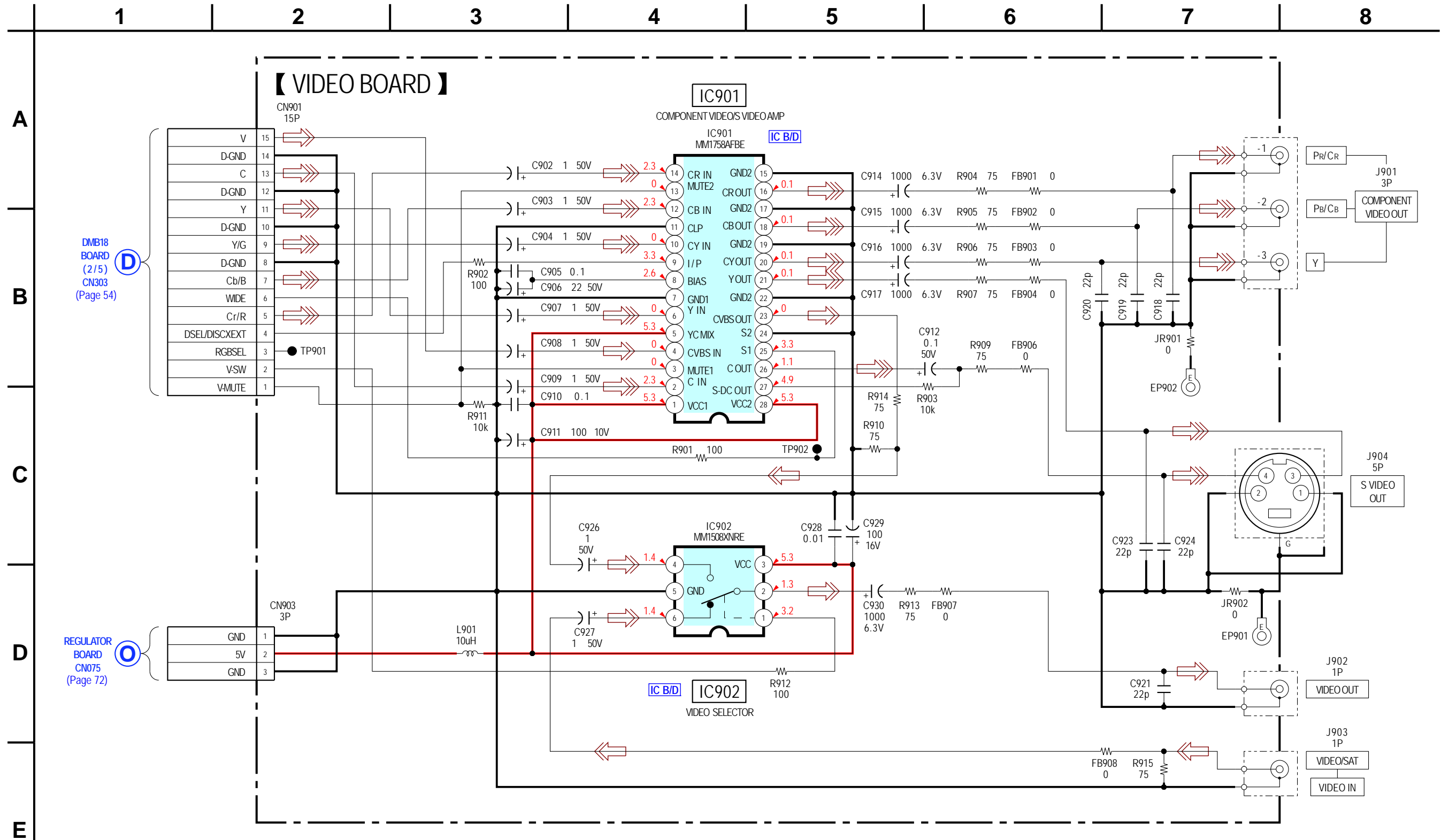
7-23. SCHEMATIC DIAGRAM – TC Section –



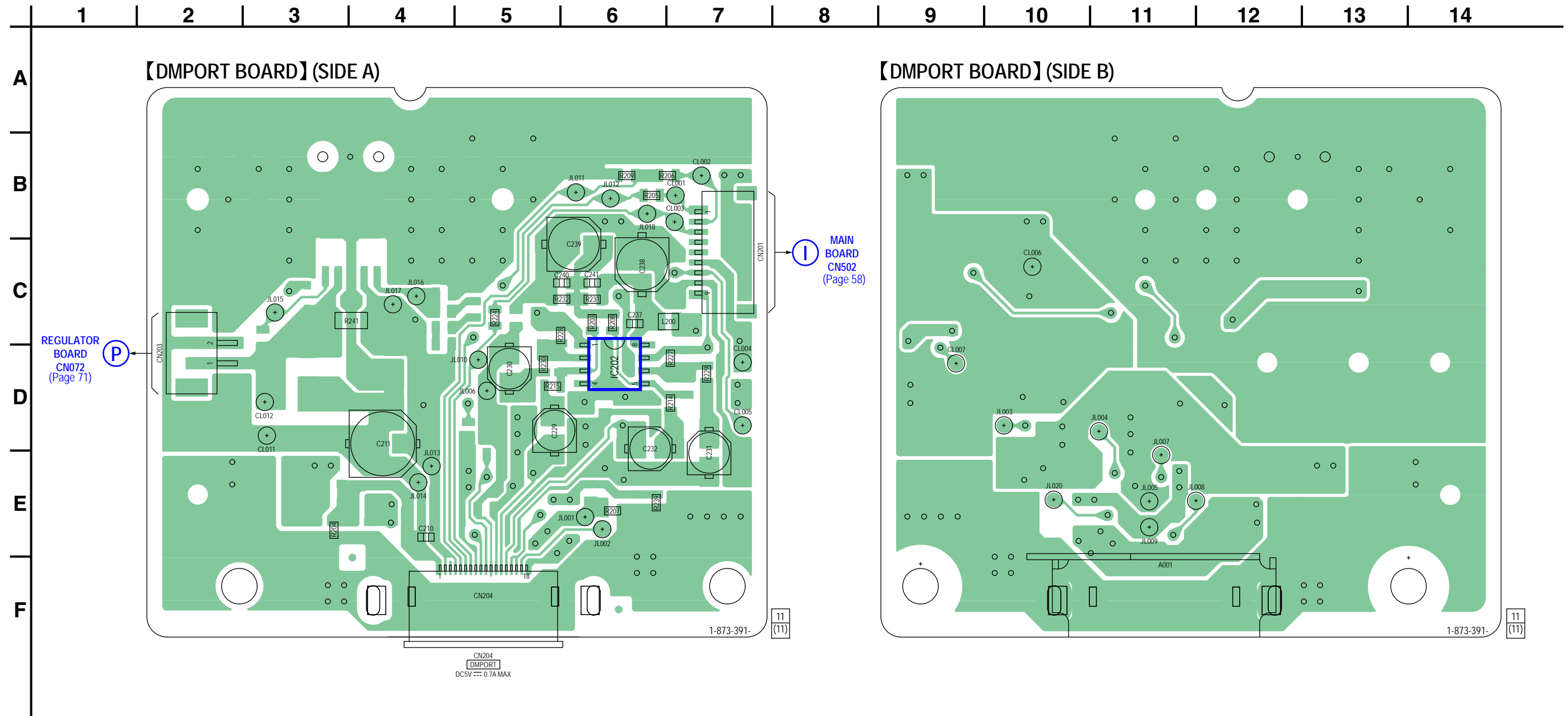
7-24. PRINTED WIRING BOARD – VIDEO Section – • See page 42 for Circuit Boards Location. •  : Uses unleaded solder.



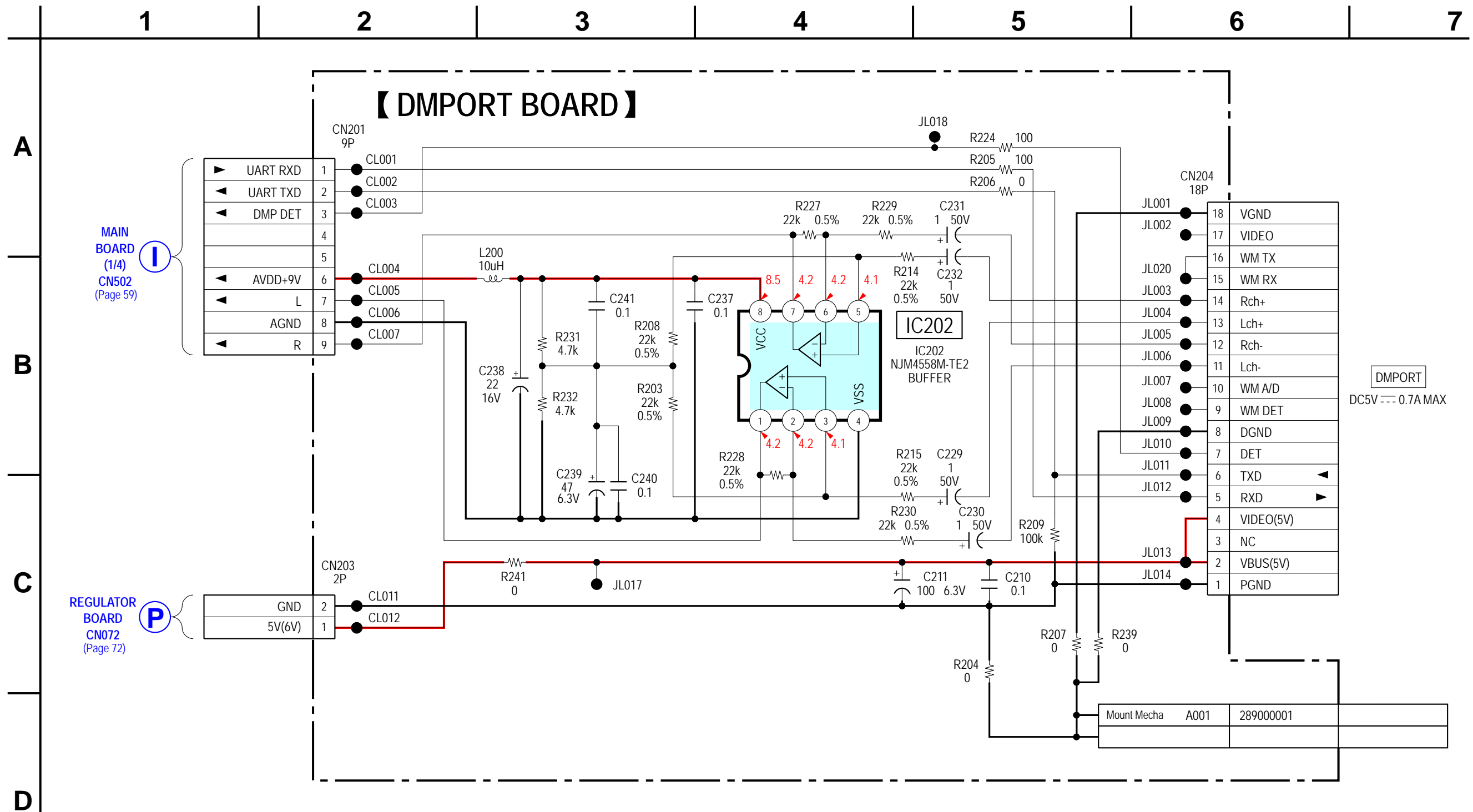
7-25. SCHEMATIC DIAGRAM – VIDEO Section – • See page 85 for IC Block Diagrams.



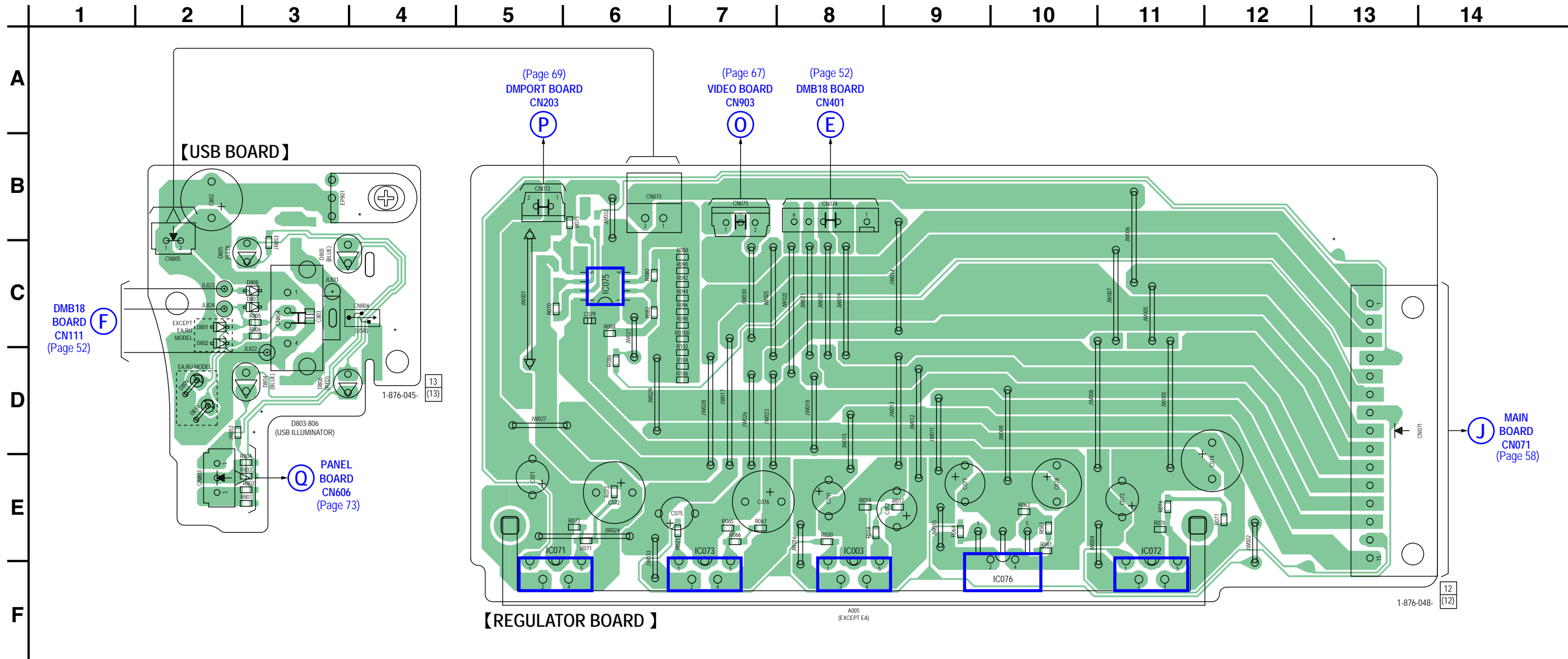
7-26. PRINTED WIRING BOARD – DMPORT Section – • See page 42 for Circuit Boards Location. •  : Uses unleaded solder.



7-27. SCHEMATIC DIAGRAM – DMPORT Section –



7-28. PRINTED WIRING BOARDS – REGULATOR/USB Section – • See page 42 for Circuit Boards Location. •  : Uses unleaded solder.

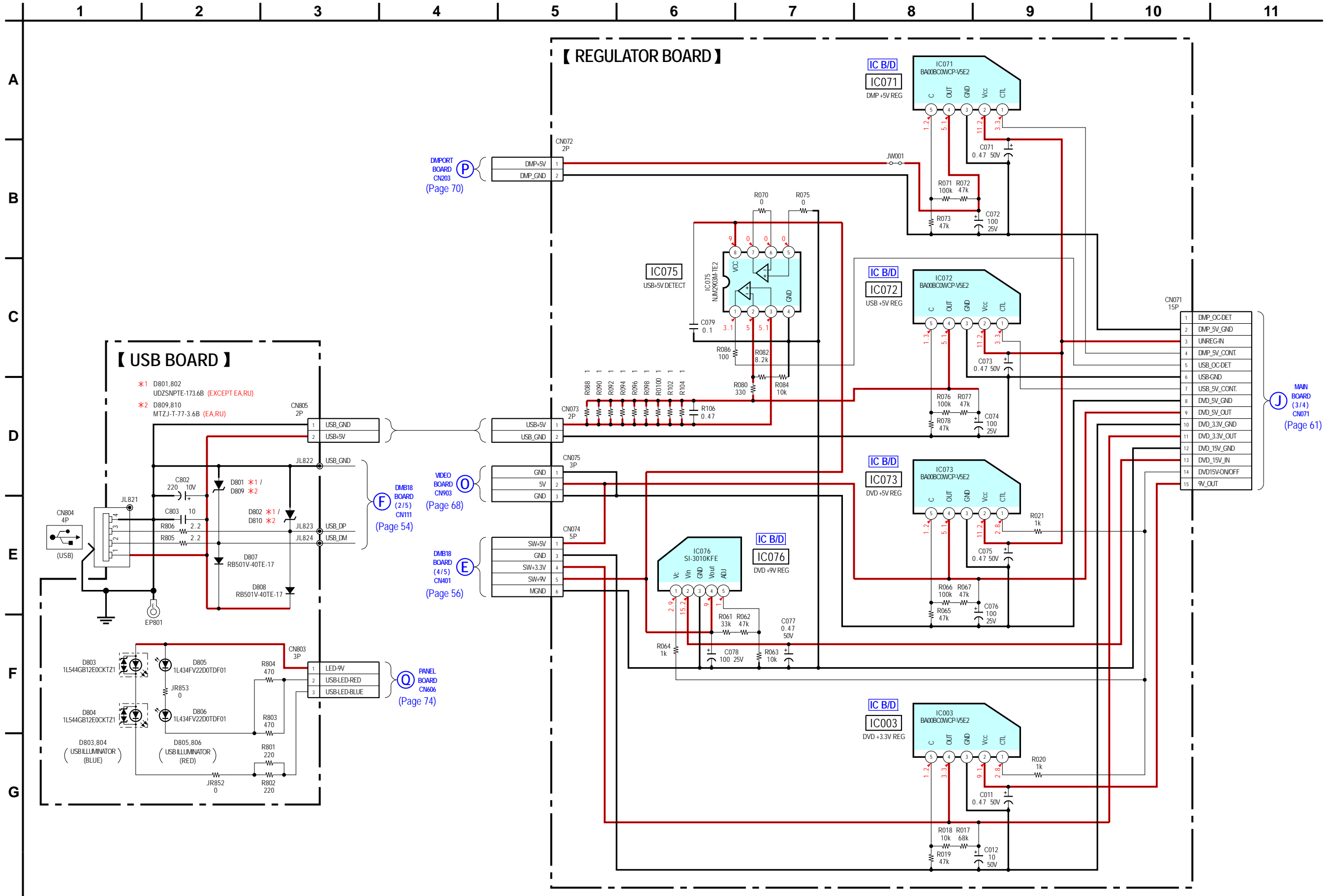


• Semiconductor Location

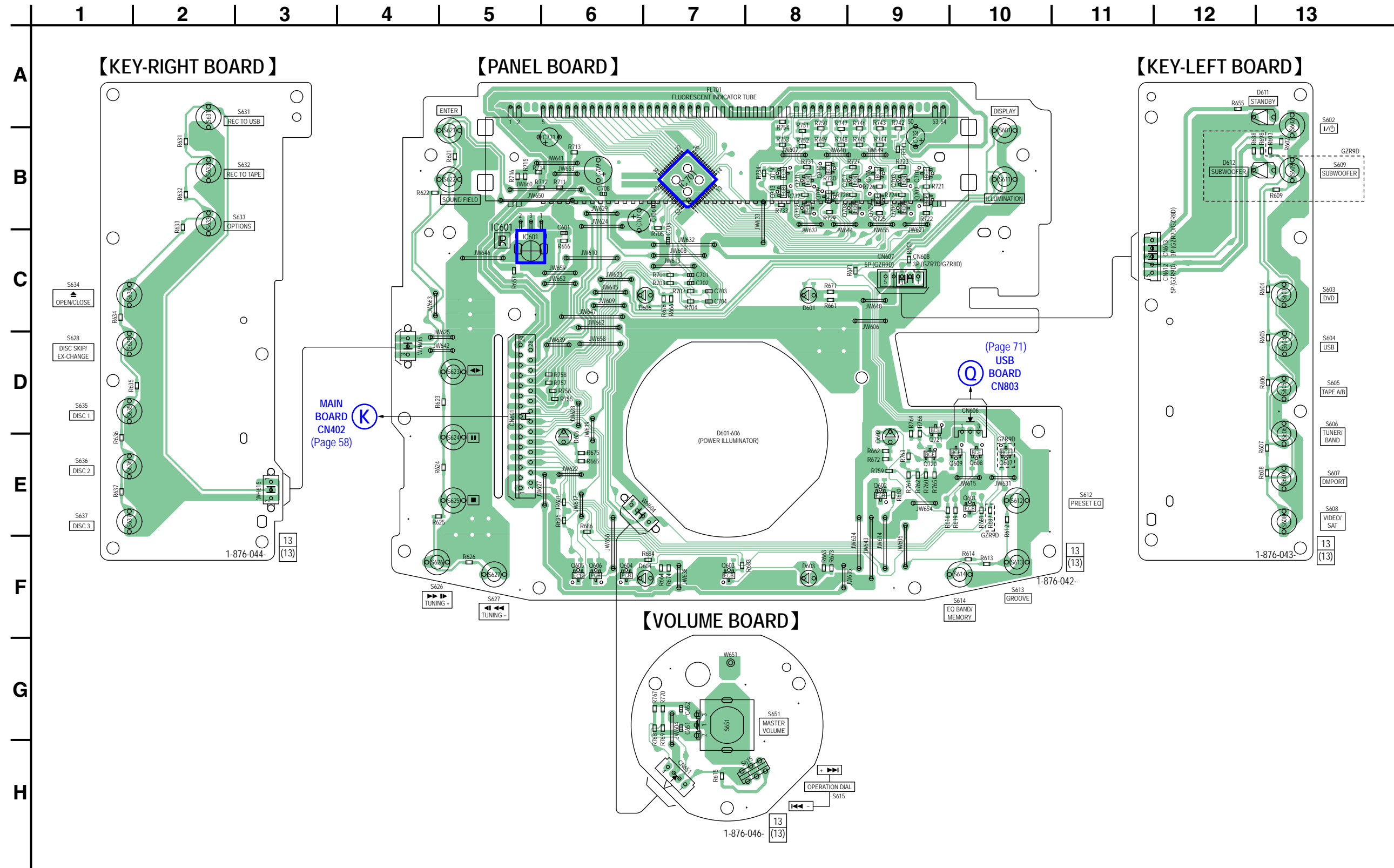
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
(D801)	C-2	D807	C-3	IC071	F-5
(D802)	C-2	D808	C-3	IC072	F-11
D803	C-3	<D809>	D-2	IC073	F-7
D804	D-2	<D810>	D-2	IC075	C-6
D805	C-2			IC076	F-10
D806	D-3	IC003	F-8		

(): Except EA, RU model
< > : EA, RU model

7-29. SCHEMATIC DIAGRAM – REGULATOR/USB Section – • See page 85 for IC Block Diagrams.



7-30. PRINTED WIRING BOARDS – PANEL Section – • See page 42 for Circuit Boards Location. •  : Uses unleaded solder.

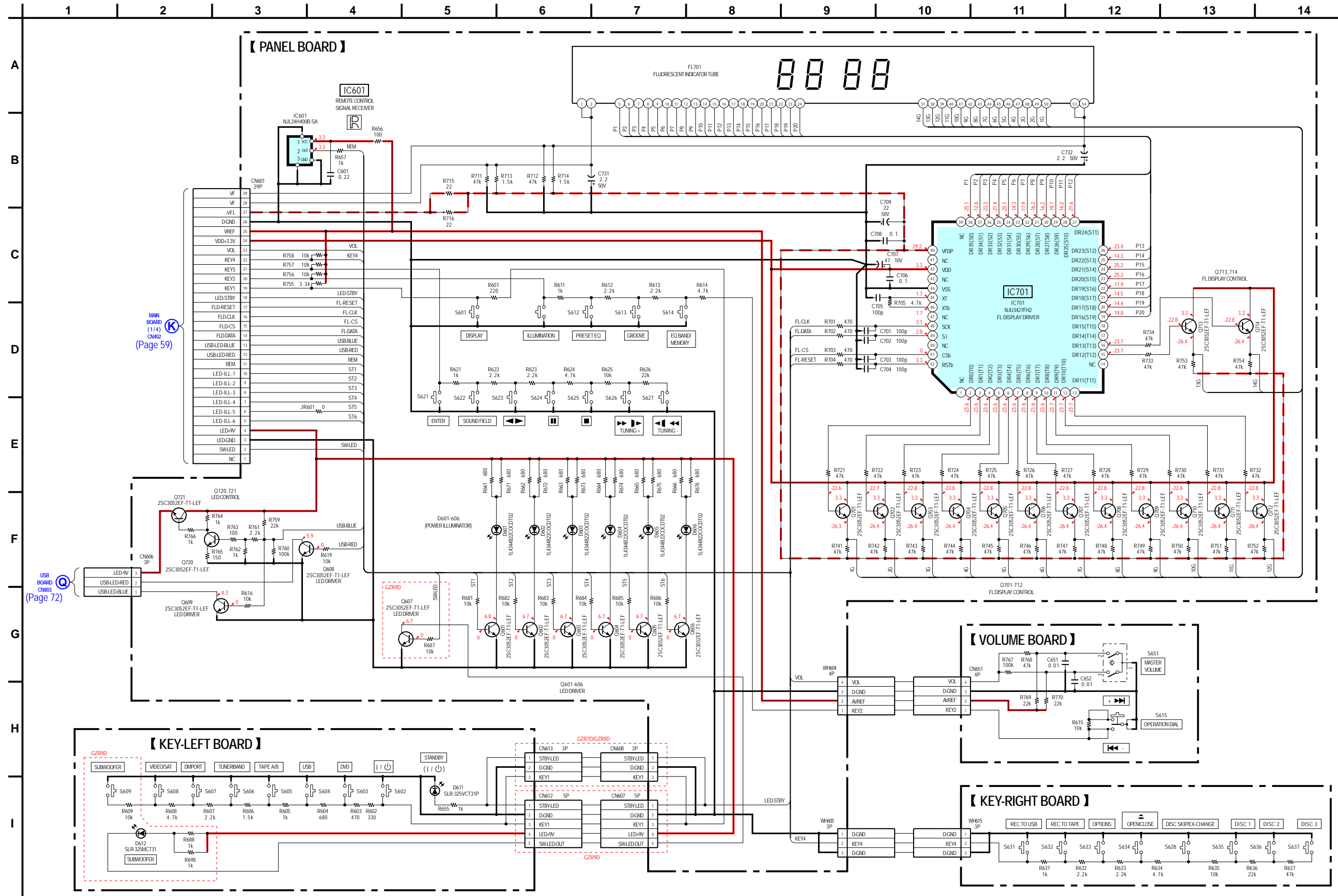


• Semiconductor Location

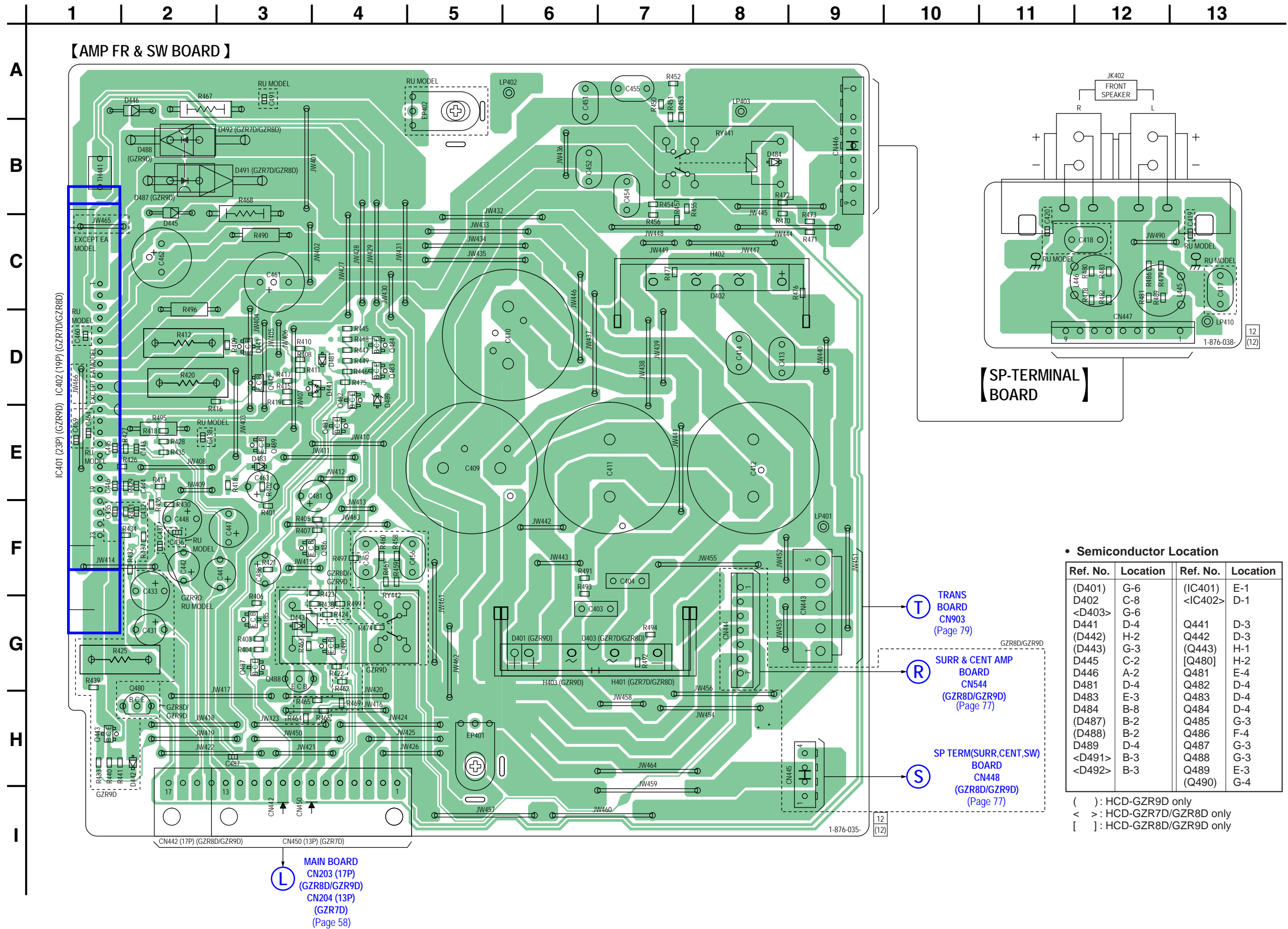
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D601	C-8	D606	C-7	IC701	B-7	Q604	F-6	Q609	E-10	Q705	B-9	Q710	B-8	Q720	E-9
D602	E-9	D611	A-13			Q605	F-6	Q701	B-9	Q706	B-9	Q711	B-8	Q721	E-9
D603	F-8		(D612)	B-13		Q606	F-6	Q702	B-9	Q707	B-9	Q712	B-8		
D604	F-7					Q607	(Q607)	E-10	Q703	B-9	Q708	B-9	Q713	B-8	
D605	E-6	IC601	C-5	Q602	E-9	Q608	E-10	Q704	B-9	Q709	B-8	Q714	B-8		

() : HCD-GZR9D only

7-31. SCHEMATIC DIAGRAM – PANEL Section –



7-32. PRINTED WIRING BOARDS – FRONT SPEAKER Section – • See page 42 for Circuit Boards Location. •  : Uses unleaded solder.

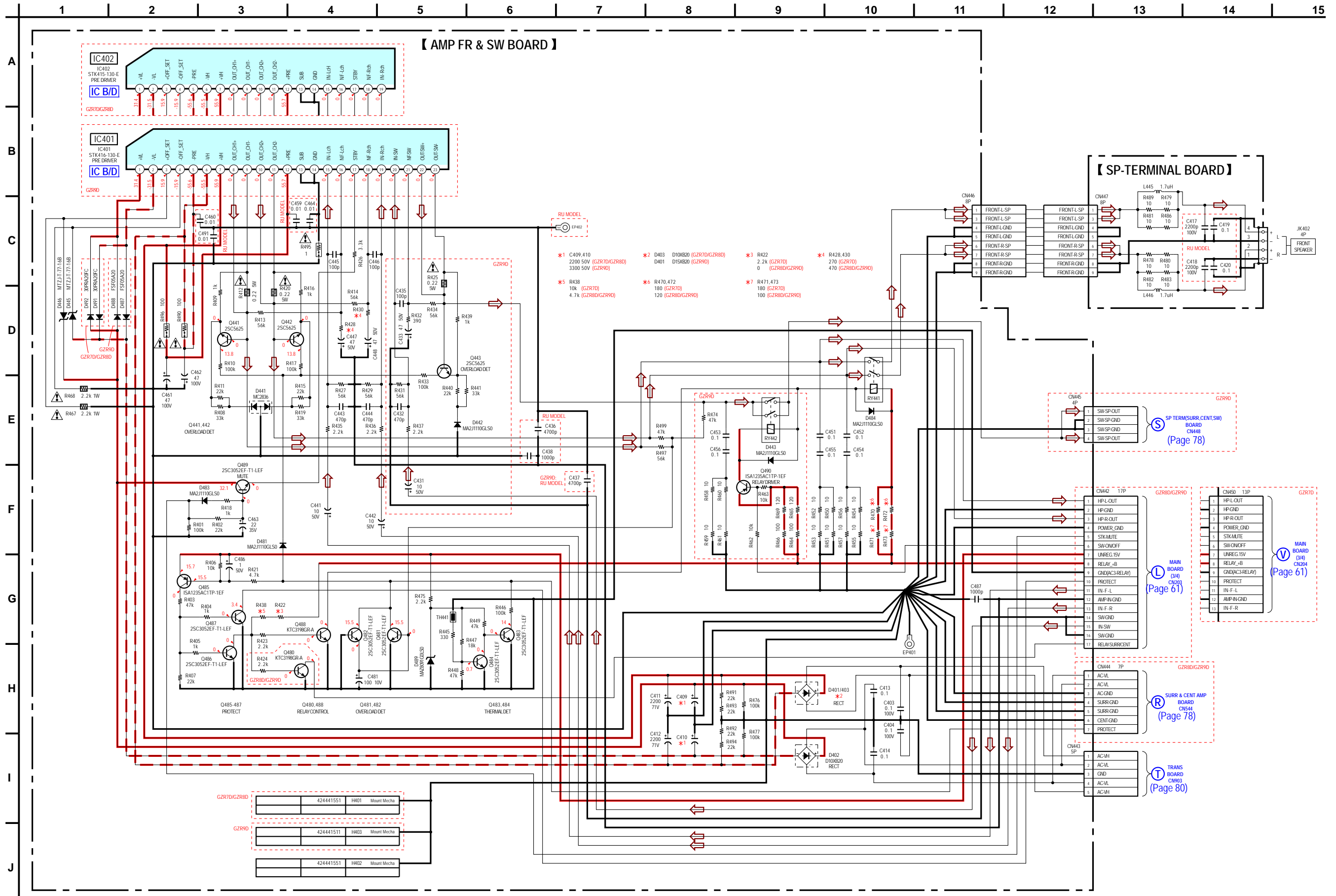



• Semiconductor Location

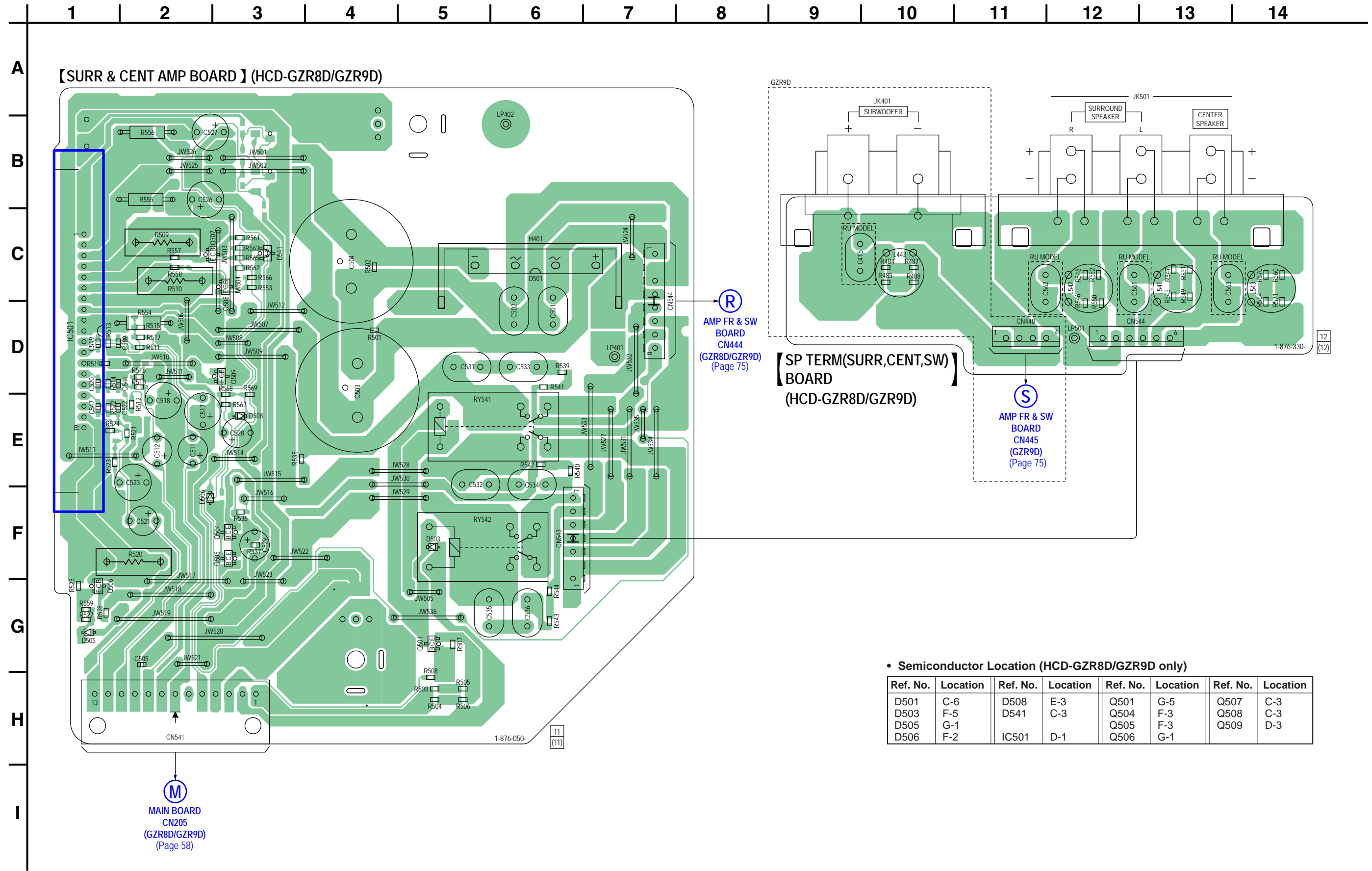
Ref. No.	Location	Ref. No.	Location
(D401)	G-6	(IC401)	E-1
D402	C-8	<IC402>	D-1
<D403>	G-6		
D441	D-4	Q441	D-3
(D442)	H-2	Q442	D-3
(D443)	G-3	(Q443)	H-1
D445	C-2	[Q480]	H-2
D481	D-4	Q481	E-4
D483	E-3	Q483	D-4
D484	B-8	Q484	D-4
(D487)	B-2	Q485	G-3
(D488)	B-2	Q486	F-4
D489	D-4	Q487	G-3
<D491>	B-3	Q488	G-3
<D492>	B-3	Q489	E-3
		(Q490)	G-4

(): HCD-GZR9D only
< > : HCD-GZR7D/GZR8D only
[] : HCD-GZR8D/GZR9D only

7-33. SCHEMATIC DIAGRAM – FRONT SPEAKER Section – • See page 86 for IC Block Diagrams.



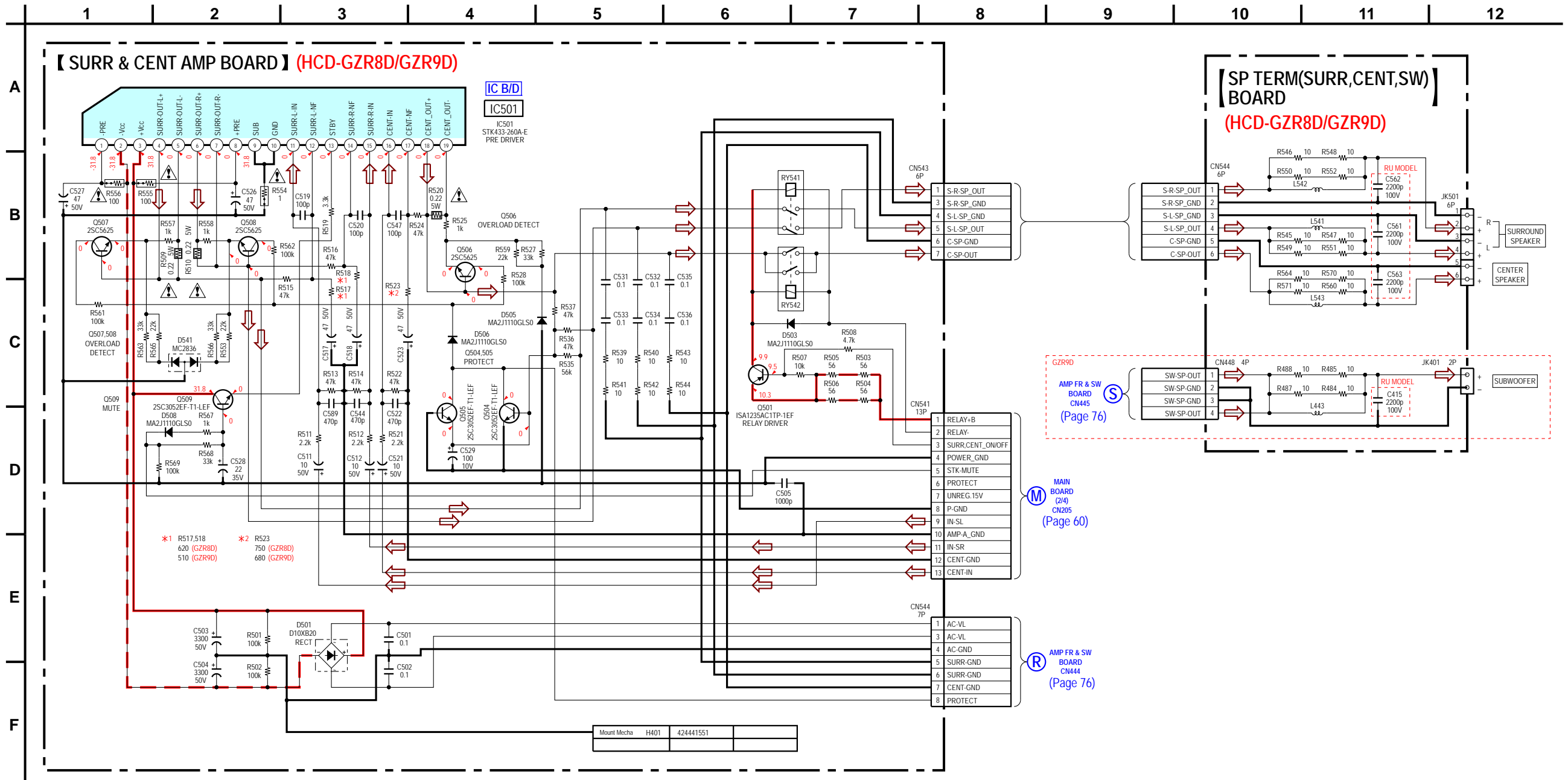
7-34. PRINTED WIRING BOARDS – SURROUND/CENTER SPEAKER, SUBWOOFER Section – (HCD-GZR8D/GZR9D) • See page 42 for Circuit Boards Location. •  : Uses unleaded solder.



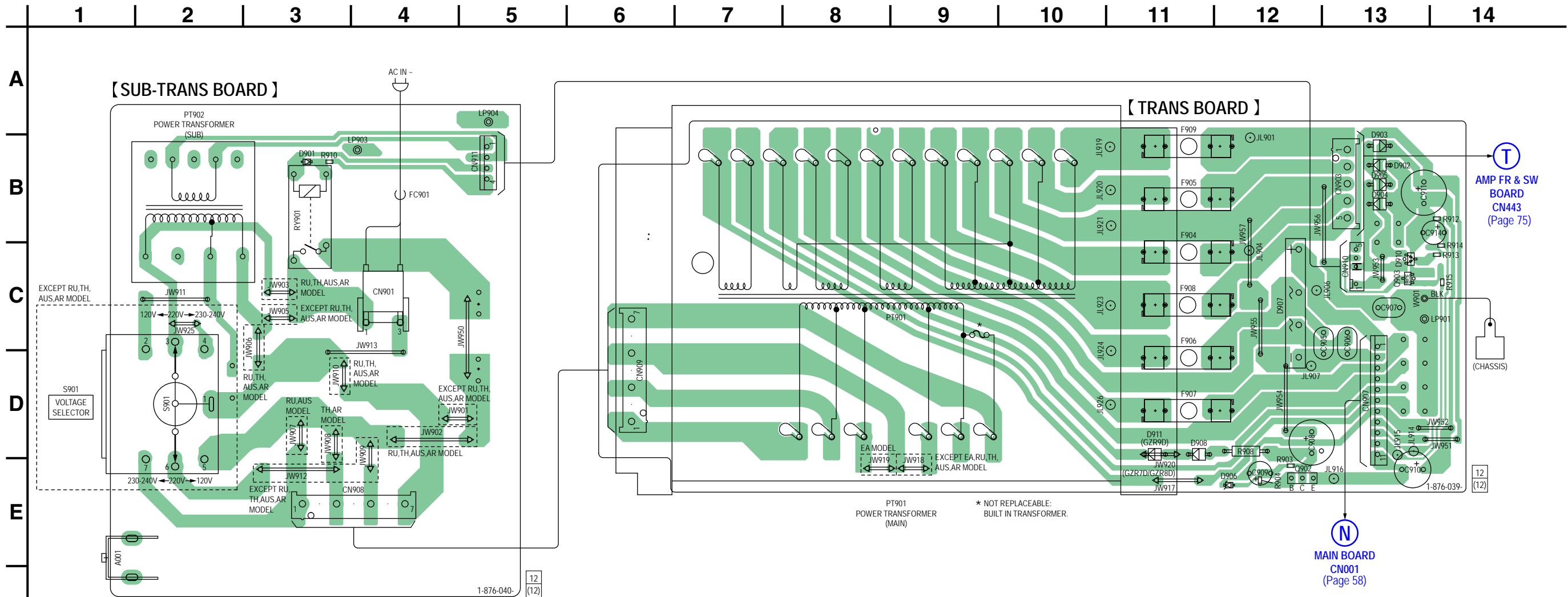
• Semiconductor Location (HCD-GZR8D/GZR9D only)

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D501	C-6	D508	E-3	Q501	G-5	Q507	C-3
D503	F-5	D541	C-3	Q504	F-3	Q508	C-3
D505	G-1			Q505	F-3	Q509	D-3
D506	F-2	IC501	D-1	Q506	G-1		

7-35. SCHEMATIC DIAGRAM – SURROUND/CENTER SPEAKER, SUBWOOFER Section – (HCD-GZR8D/GZR9D) • See page 86 for IC Block Diagrams.



7-36. PRINTED WIRING BOARDS – POWER Section – • See page 42 for Circuit Boards Location. •  : Uses unleaded solder.

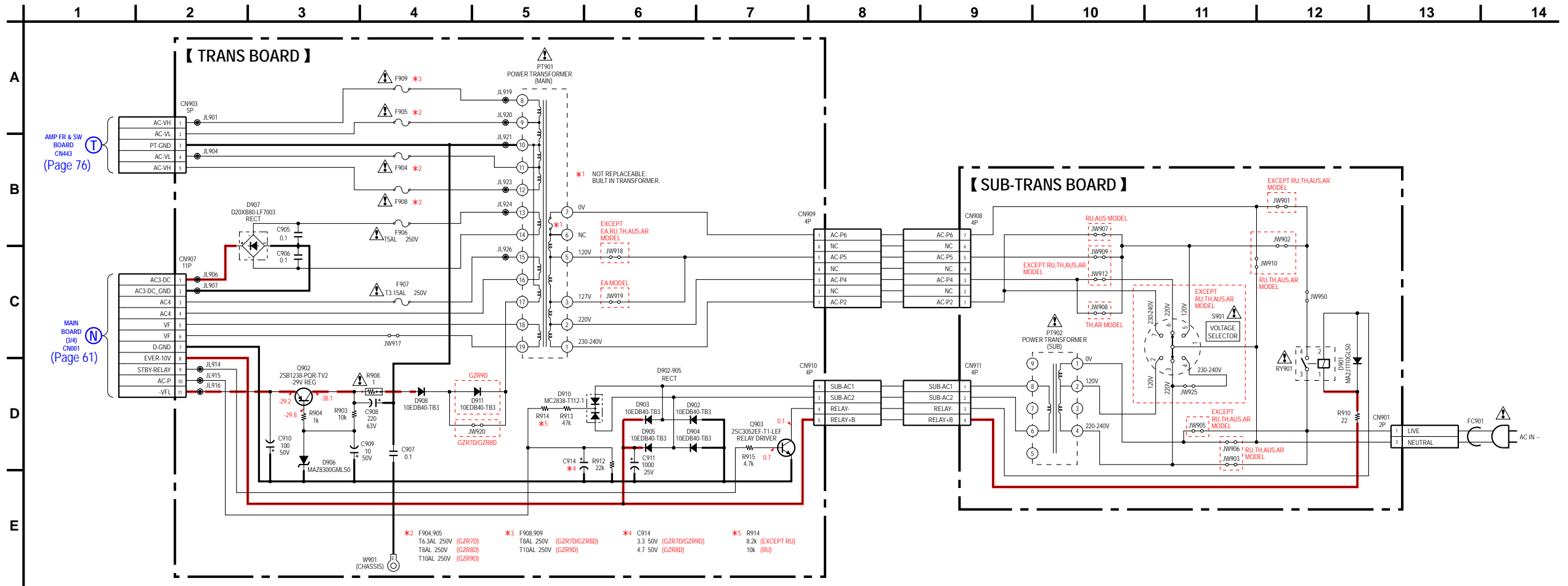


• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D901	B-3	D908	D-11
D902	B-13	D910	C-13
D903	B-13	(D911)	D-11
D904	B-13		
D905	B-13	Q902	E-12
D906	E-12	Q903	C-13
D907	C-12		

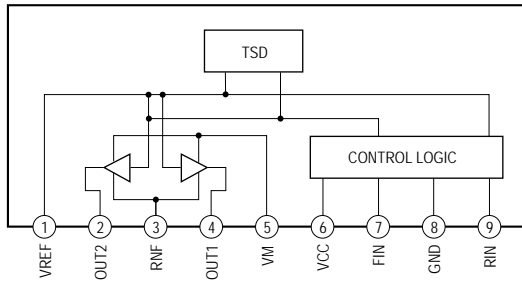
() : HCD-GZR9D only

7-37. SCHEMATIC DIAGRAM – POWER Section –

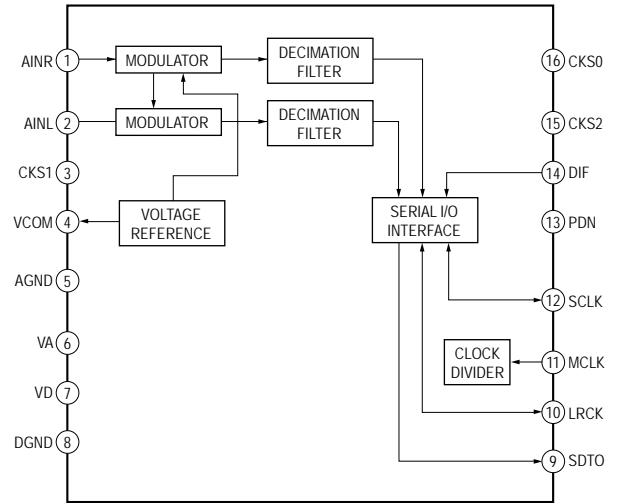


• IC Block Diagrams

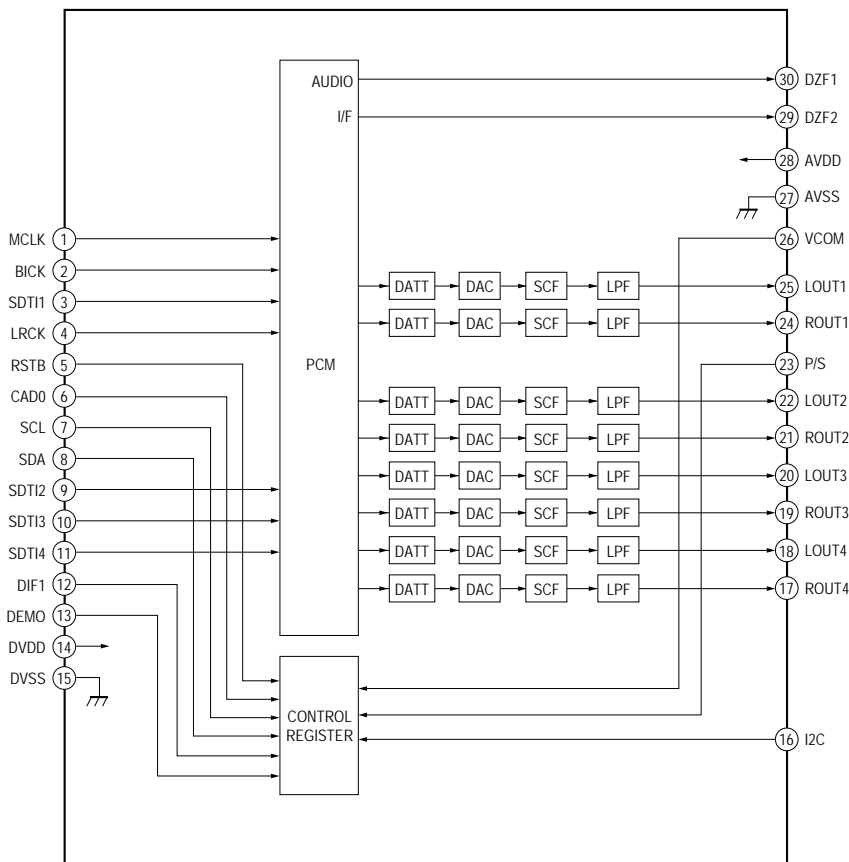
IC701 BA6956AN (DRIVER BOARD)
IC712 BA6956AN (DRIVER BOARD)



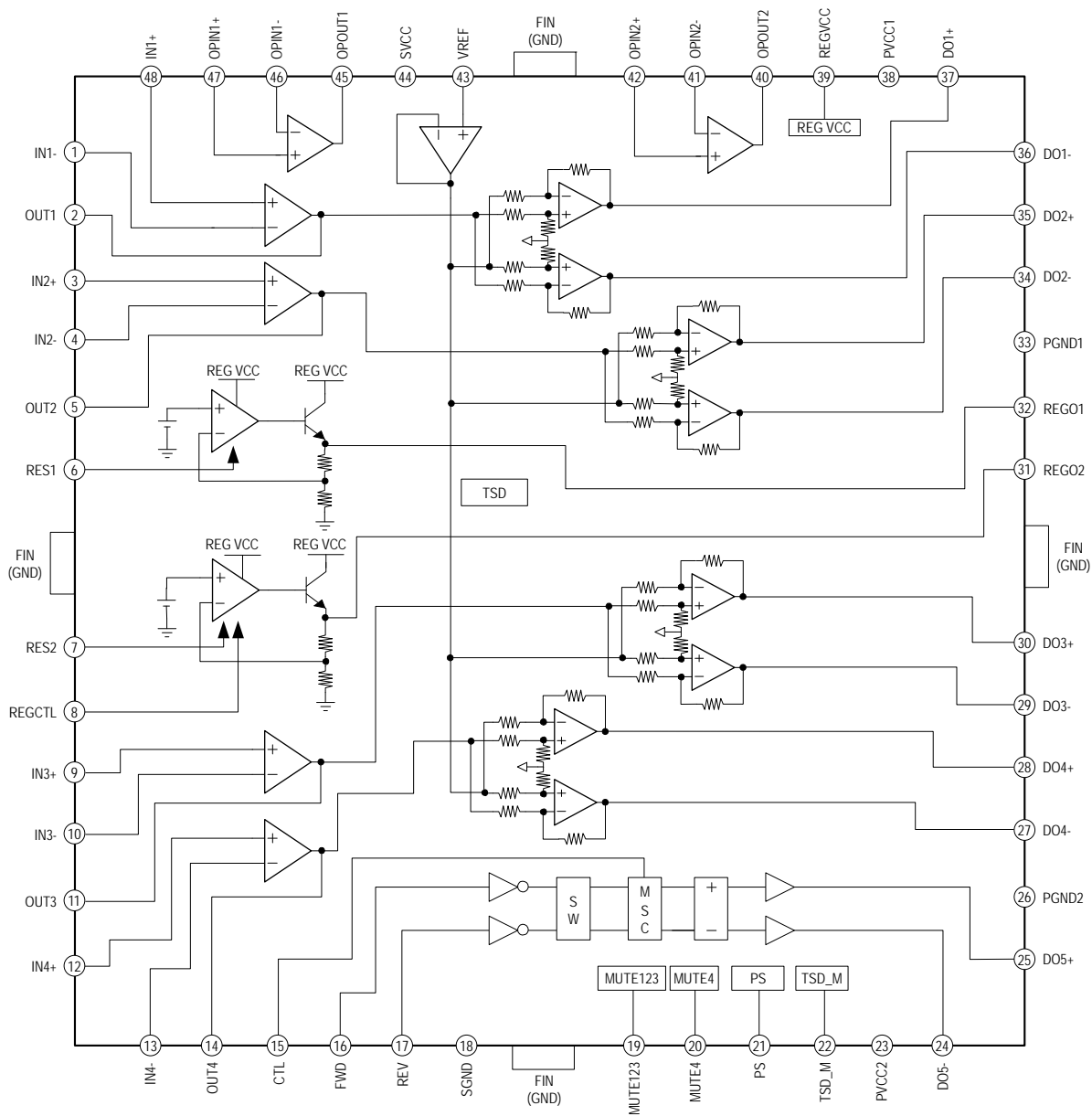
IC3601 AK5358AET-E2 (DMB18 BOARD (4/5))



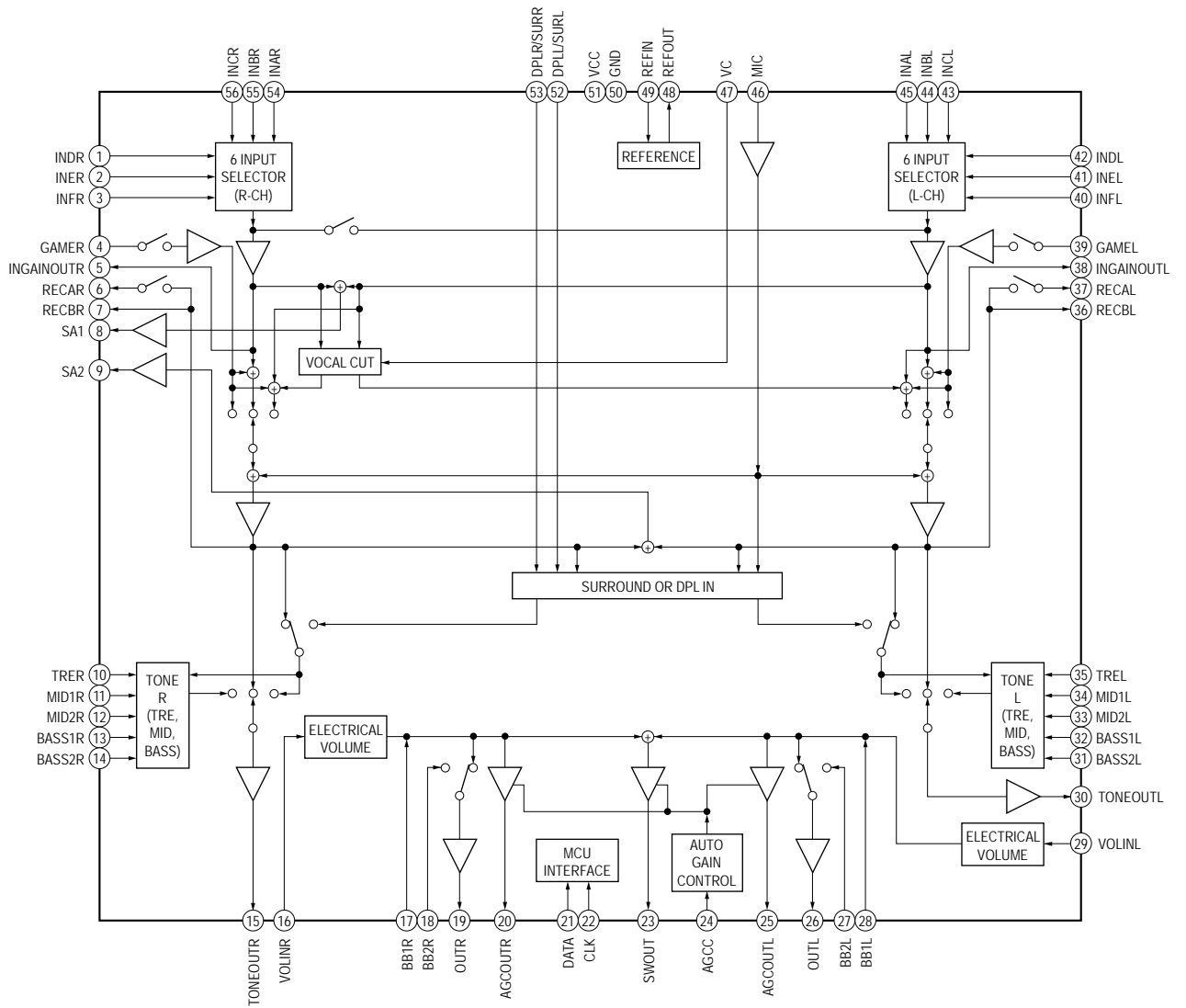
IC4602 AK4359VF-E2 (DMB18 BOARD (4/5))



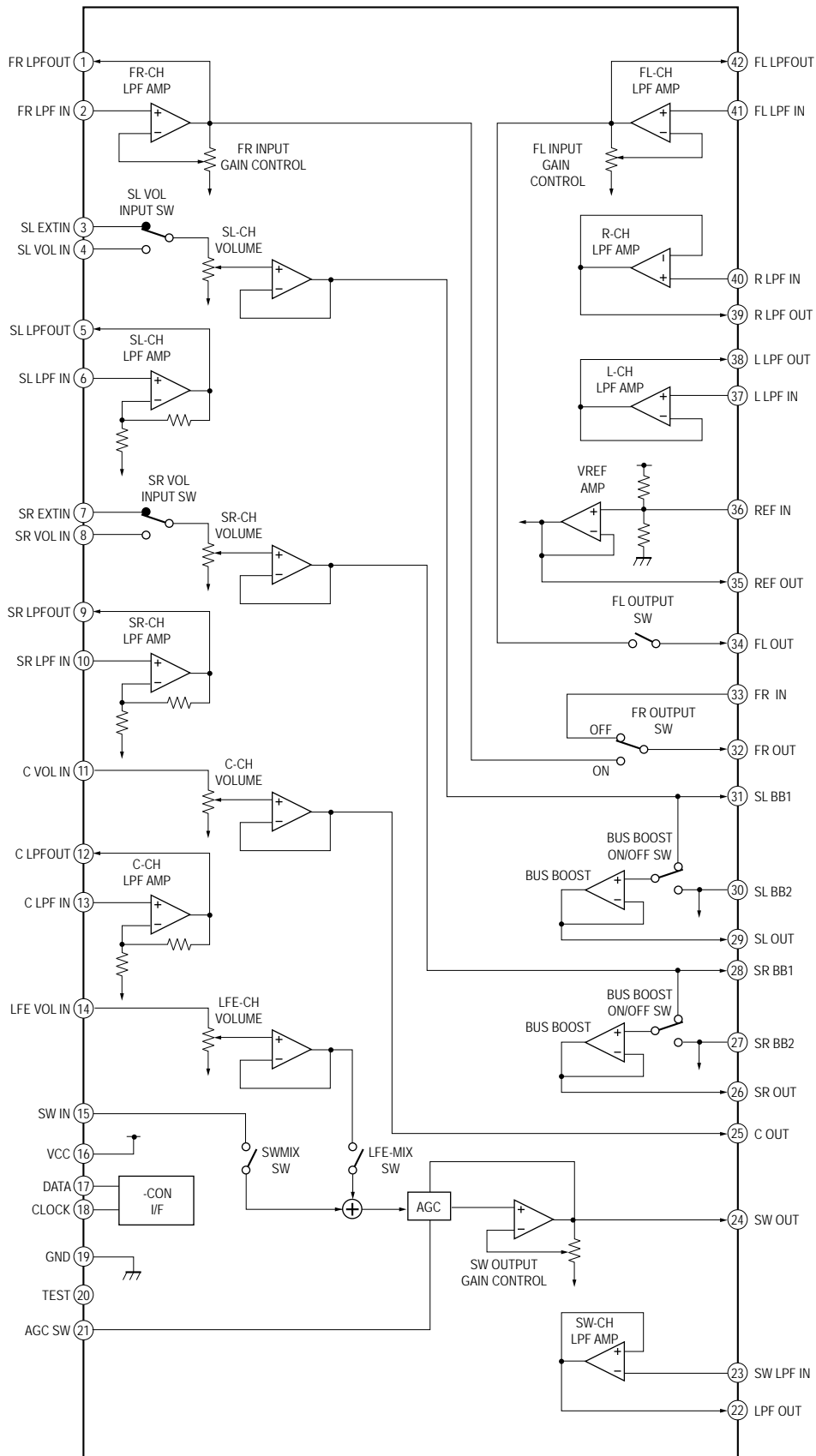
IC201 FAN8036L (DMB18 BOARD (5/5))



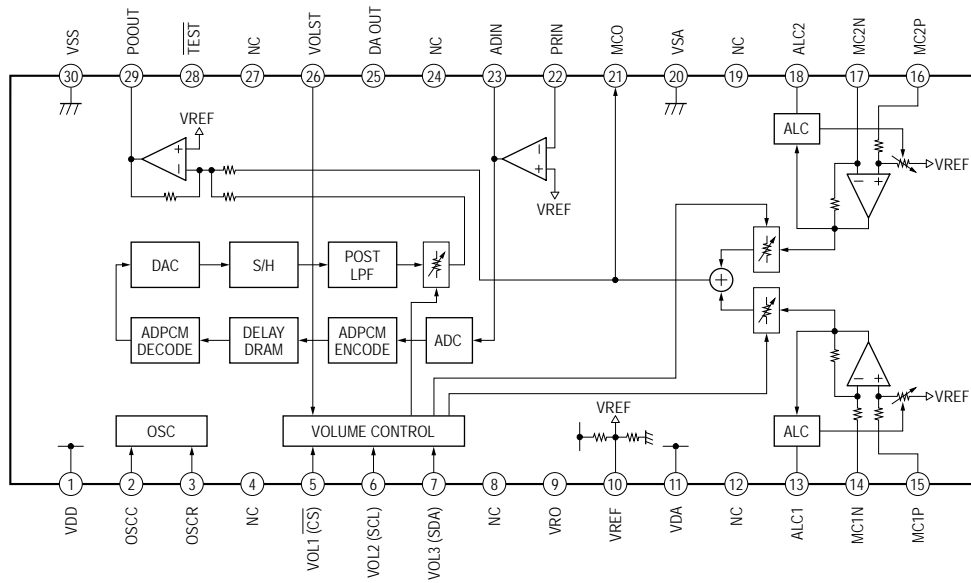
IC101 R2A15216FP (MAIN BOARD (2/4))



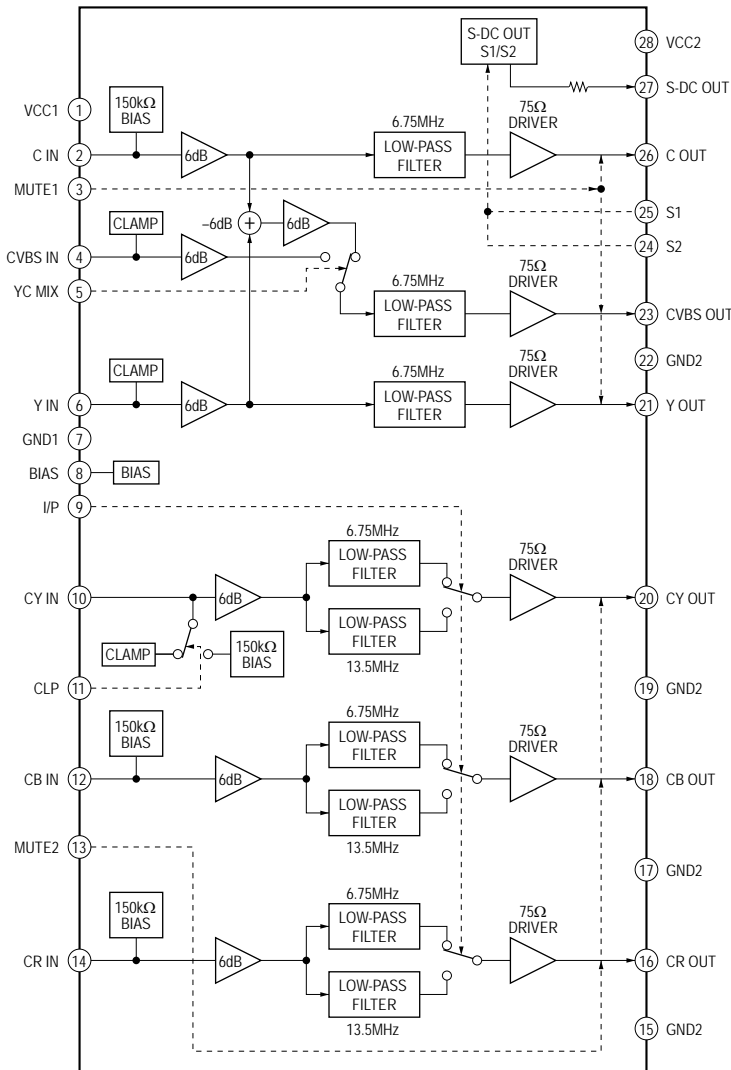
IC201 M61530FP-D60G (MAIN BOARD (2/4)) (HCD-DZR8D/DZR9D)



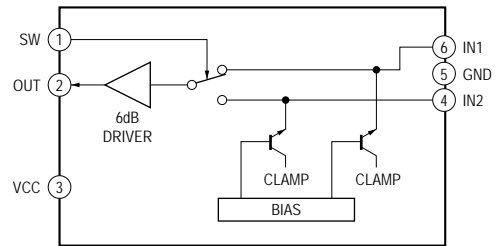
IC851 TC9488FG (MIC BOARD)



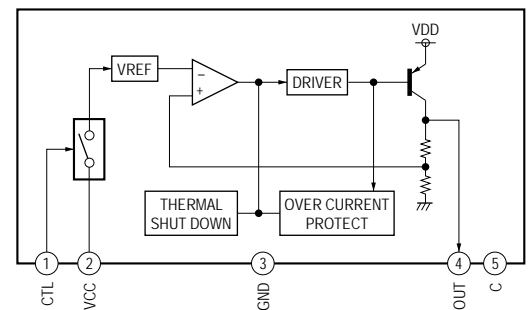
IC901 MM1758AFBE (VIDEO BOARD)



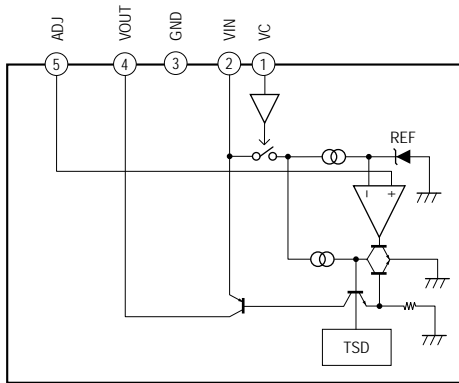
IC902 MM1508XNRE (VIDEO BOARD)



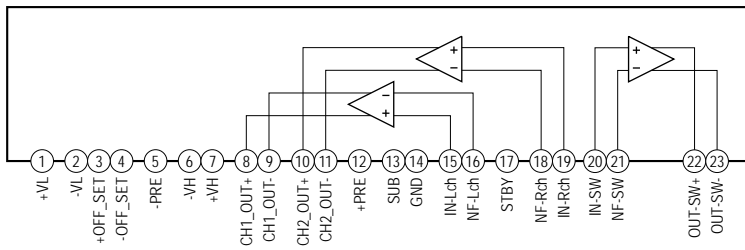
- IC003 BA00BC0WCP-V5E2 (REGULATOR BOARD)**
- IC071 BA00BC0WCP-V5E2 (REGULATOR BOARD)**
- IC072 BA00BC0WCP-V5E2 (REGULATOR BOARD)**
- IC073 BA00BC0WCP-V5E2 (REGULATOR BOARD)**



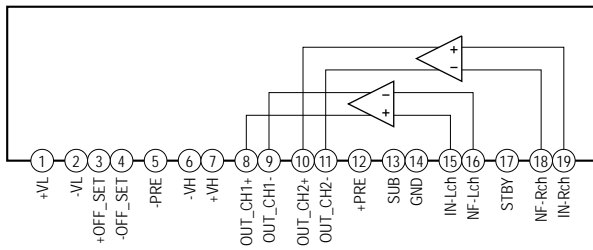
IC076 SI3010KFE (REGULATOR BOARD)



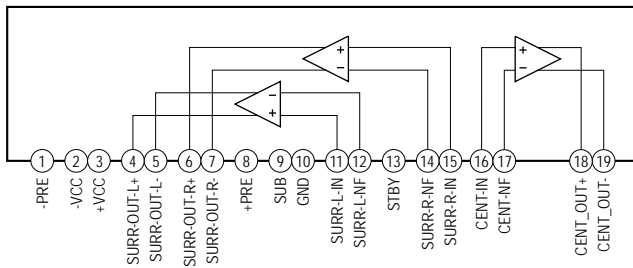
IC401 STK416-130-E (AMP FR & SW BOARD) (HCD-GZR9D)



IC402 STK415-130-E (AMP FR & SW BOARD) (HCD-GZR7D/GZR8D)



IC501 STK433-260A-E (SURR & CENT AMP BOARD) (HCD-GZR8D/GZR9D)



• IC Pin Function Descriptions

DMB18 BOARD (2/5) IC102 CXD9894R

(CD/DVD RF AMP, FOCUS/TRACKING ERROR AMP, DVD SYSTEM PROCESSOR, DIGITAL SERVO PROCESSOR)

Pin No.	Pin Name	I/O	Description
1	OSN	O	RF offset cancellation capacitor connecting pin
2	RFGC	O	RF AGC loop capacitor connecting for DVD-ROM
3	IREF	I	Current reference input
4	AVDD3	—	Analog power supply pin (+3.3 V)
5	AGND	—	Analog ground
6	DVDA	I	AC coupled input path A
7	DVDB	I	AC coupled input path B
8	DVDC	I	AC coupled input path C
9	DVDD	I	AC coupled input path D
10	DVDRFIP	I	AC coupled DVD RF signal input RFIP
11	MA	I	DC coupled main-beam RF signal input A
12	MB	I	DC coupled main-beam RF signal input B
13	MC	I	DC coupled main-beam RF signal input C
14	MD	I	DC coupled main-beam RF signal input D
15	SA	I	DC coupled sub-beam RF signal input A (Not used in this set)
16	SB	I	DC coupled sub-beam RF signal input B (Not used in this set)
17	TNI	I	3 beam satellite PD signal negative input
18	TPI	I	3 beam satellite PD signal positive input
19, 20	MDI1, MDI2	I	Laser power monitor input
21, 22	LDO2, LDO1	O	Laser driver output
23	SVDD3	—	Analog power supply pin (+3.3 V)
24	CSO	O	Central servo output (Not used in this set)
25	RFLVL	O	RFRP low pass output (Not used in this set)
26	SGND	—	Ground pin for analog circuitry
27	V2REFO	O	Reference voltage 2.8 V output
28	V2O	O	Reference voltage 2.0 V output
29	VREFO	O	Reference voltage 1.4 V output
30	FEO	O	Focus error monitor output (Not used in this set)
31	TEO	O	Tracking error monitor output (Not used in this set)
32	TEZISLV	O	TE slicing level output
33	OP_OUT	O	SPFG via op amp (Op amp output)
34	OP_INN	I	Loop back input (Op amp negative input)
35	OP_INP	I	Raw SPFG signal input (Op amp positive input)
36	DMO	O	Disc motor control output. PWM output
37	FMO	O	Feed motor control output. PWM output
38	TROPENPWM	O	Tray PWM output/tray open output (Not used in this set)
39	IOPMON	I	General A/D input → lop monitor
40	TRO	O	PDM output of tracking servo compensator
41	FOO	O	PDM output of focus servo compensator
42	AGND18	—	Analog ground pin for DMPLL
43	AVDD18	—	Analog power supply pin (+1.8 V) for DMPLL
44	USB_DP	I/O	USB port DPLUS pin
45	USB_DM	I/O	USB port DMINUS pin
46	USB_VDD3	—	Power supply pin (+3.3 V) for USB
47	USB_VSS	—	Ground pin for USB
48	PAD_VRT	I/O	USB generating reference current
49	USB_VDD18	—	Power supply pin (+1.8 V) for USB
50	USB_VSS	—	Ground pin for USB
51	DIR_ERROR	I	PLL lock error, input data error detection from DIR (L: non error)
52	DIR_AUDIO	I	PCM/non PCM detection input from DIR (L: PCM)
53	LIMITSW	I	Limit switch detection input
54	MSW	O	Media switch output (L: CD, H: DVD)
55	DVDD18	—	Power supply pin (+1.8 V) for internal digital circuitry

HCD-GZR7D/GZR8D/GZR9D

Pin No.	Pin Name	I/O	Description
56 to 62	HA2 to HA8	O	Host address output bit 2 to 8
63, 64	HA18, HA19	O	Host address output bit 18, 19
65	DVDD3	—	Power supply pin (+3.3 V) for internal digital circuitry
66	XWR	O	Write enable output (active Low)
67 to 74	HA16 to HA9	O	Host address output bit 16 to 9
75	HA20	O	Host address output bit 20
76	XROMCS	O	Chip select output (active Low)
77	HA1	O	Host address output bit 1
78	XRD	O	Read enable output (active Low)
79, 80	HD0, HD1	O	Host data output bit 0, 1
81	DVSS	—	Ground pin for internal digital circuitry
82 to 86	HD2 to HD6	O	Host data output bit 2 to 6
87	HA21	O	Host address output bit 21
88	RESERVED	O	Not used. (Open)
89	HD7	O	Host data output bit 7
90	DVSS	—	Ground pin for internal digital circuitry
91	HA17	O	Host address output bit 17
92	HA0	O	Host address output bit 0
93	DVDD18	—	Power supply pin (+1.8 V) for internal digital circuitry
94	FWD	O	Forward signal output for loading motor driver (Not used in this set)
95	REV	O	Reserve signal output for loading motor driver (Not used in this set)
96	DVDD3	—	Power supply pin (+3.3 V) for internal digital circuitry
97	IFSDO	O	External CPU serial data output (H/W method)
98	IFCK	O	External CPU serial clock output (H/W method)
99	xIFCS	O	External CPU serial chip select output (active Low, H/W method)
100	IFSDI	I	External CPU serial data input (H/W method)
101	SCL	O	I2C clock output for EEPROM
102	SDA	O	I2C data output for EEPROM
103	CKSW	I	Chucking switch detection input (Not used in this set)
104	OCSW	I	Open/close switch detection input (Not used in this set)
105	RXD	I	Hardwired RS232C RXD input
106	TXD	O	Hardwired RS232C TXD output
107	ICE	I	ICE mode enable input (Not used in this set)
108	xSYSRST	I	MT1389 reset input (active Low)
109	RESERVED	I	Not used. (Open)
110	xIFBSY	I	External CPU ready/busy interrupt signal input (L: ready, H: busy)
111	DQM0	O	Mask for DRAM output byte 0
112	EEWP	O	EEPROM write protect control output (L: write allowed)
113 to 117	RD7 to RD3	O	DRAM data output bit 7 to 3
118	DVDD3	—	Power supply pin (+3.3 V) for internal digital circuitry
119 to 121	RD2 to RD0	O	DRAM data output bit 2 to 0
122 to 129	RD15 to RD8	O	DRAM data output bit 15 to 8
130	TSD_M	I	Thermal shutdown monitor input
131	DVDD3	—	Power supply pin (+3.3 V) for internal digital circuitry
132	DQM1	O	Mask for DRAM output byte 1
133	_RWE	O	DRAM write enable output
134	_CAS	O	DRAM column address strobe output
135	_RAS	O	DRAM row address strobe output
136	_RCS	O	DRAM chip select output
137, 138	BA0, BA1	O	DRAM bank address output 0, 1
139	RA10	O	DRAM address output bit 10
140, 141	RA0, RA1	O	DRAM address output bit 0, 1
142	DVDD18	—	Power supply pin (+1.8 V) for internal digital circuitry
143, 144	RA2, RA3	O	DRAM address output bit 2, 3
145	DVDD3	—	Power supply pin (+3.3 V) for internal digital circuitry
146	DRCLK	O	DRAM clock output

Pin No.	Pin Name	I/O	Description
147	CKE	O	DRAM clock enable output
148	DVSS	—	Ground pin for internal digital circuitry
149	RA11	O	DRAM address output bit 11
150 to 155	RA9 to RA4	O	DRAM address output bit 9 to 4
156	DVDD3	—	Power supply pin (+3.3 V) for internal digital circuitry
157	MUTE123	O	Mute signal output for other motor drivers (SL, TRK, FCS)
158	MUTE	O	Mute signal output for spindle motor driver
159	DDC_DA	I/O	HDMI DDC line SDA
160	DVDD18	—	Power supply pin (+1.8 V) for internal digital circuitry
161	DDC_CLK	I/O	HDMI DDC line CLK
162	HTPLG	I	Hot plug detection input
163	AGND3	—	Analog ground pin for HDMI TX
164	EXT_RES	I	External resistor for HDMI TX
165, 166	AVDD3	—	Analog power supply pin (+3.3 V) for HDMI TX
167	EXT_CAP	I	External capacitor for HDMI TX
168	AGND3	—	Analog ground pin for HDMI TX
169	AGND18	—	Analog ground pin for HDMI TX
170	TXCN	O	Negative TX CLK output (Not used in this set)
171	TXCP	O	Positive TX CLK output (Not used in this set)
172	AVDD18	—	Analog power supply pin (+1.8 V) for HDMI TX
173	TX0N	O	Negative TX 0CH output (Not used in this set)
174	TX0P	O	Positive TX 0CH output (Not used in this set)
175	AGND18	—	Analog ground pin for HDMI TX
176	TX1N	O	Negative TX 1CH output (Not used in this set)
177	TX1P	O	Positive TX 1CH output (Not used in this set)
178	AVDD18	—	Analog power supply pin (+1.8 V) for HDMI TX
179	TX2N	O	Negative TX 2CH output (Not used in this set)
180	TX2P	O	Positive TX 2CH output (Not used in this set)
181	AGND18	—	Analog ground pin for HDMI TX
182	R/Cr/Pr	O	Red or CR output
183	B/Cb/Pb	O	Blue or CB output
184	DACVSSA	—	Ground pin for video DAC circuitry
185	Y/G	O	Green or Y output
186	DACVDDA	—	Power supply pin (+3.3 V) for video DAC circuitry
187	CVBS	O	Analog composite output
188	DACVSSB	—	Ground pin for video DAC circuitry
189	C	O	Analog chroma output
190	DACVddb	—	Power supply pin (+3.3 V) for video DAC circuitry
191	Y	O	Analog Y output
192	DACVSSC	—	Ground pin for video DAC circuitry
193	FS	I	Full scale adjustment input
194	VREF	I	Bandgap reference voltage (Not used in this set)
195	DACVDDC	—	Power supply pin (+3.3 V) for video DAC circuitry
196	VBUS_OE	O	VBUS control output enable output (L: output disable, H: output enable)
197	VBUS_OC	I	VBUS control over current input (L: over, H: non over)
198	SCORE	I	Calculation input of SCORE
199	DAC_SDA	I	SDA input from DIR
200	DAC_SCL	I	SCL input from DIR
201	SPLRCK	I	LRCK input from DIR (Fixed at L in this set)
202	SPDATA	I	Audio data input from DIR (Fixed at L in this set)
203	ACLK	O	Master clock output for audio DAC
204	ABCK	O	Audio bit clock output
205	ALRCK	O	Audio left/right channel clock output
206	ADIN	I	External analog audio data input
207	DVDD3	—	Power supply pin (+3.3 V) for video DAC digital circuitry
208	MIC	I	Karaoke microphone detection signal input (L: mic removed, H: mic exist)

HCD-GZR7D/GZR8D/GZR9D

Pin No.	Pin Name	I/O	Description
209	WIDE	O	Voltage select output signal for S terminal (L: 4:3, H: 16:9)
210	RGB_SEL/DSEL	O	RGB select output (L: RGB enable, H: RGB disable)
211	TRG_SW	I	Slot in mechanism trigger switch detection input (Fixed at L in this set)
212	DVDD18	—	Power supply pin (+1.8 V) for internal digital circuitry
213	KMOD	O	Karaoke mode status output (L: normal, H: karaoke)
214	XVOICE	I	MIC signal detection input (L: voice is absence, H: voice exist)
215	SPDIF	O	SPDIF output (HCD-GZR7D only)
216	APLLVDD3	—	Power supply pin (+3.3 V) for audio clock circuitry
217	APLLCAP	I	APLL external capacitance connection
218	APLLVSS	—	Ground pin for audio clock circuitry
219	ADACVSS2	—	Ground pin for audio DAC
220	ADACVSS1	—	Ground pin for audio DAC
221	AUD_LFE/DAC_XRST	O	Audio LFE output/DAC XRST output
222	AUD_RS/ASDATA3	O	Audio surround R output/audio serial data 3 output: down mixed L/R
223	AUD_R/ASDATA2	O	Audio front R output/audio serial data 2 output: center/LFE
224	AVCM	—	Audio DAC reference voltage
225	AUD_L/ASDATA1	O	Audio front L output/audio serial data 1 output: surround L/R
226	AUD_LS/ASDATA0	O	Audio surround L output/audio serial data 0 output: front L/R
227	AUD_C	O	Audio center output (Not used in this set)
228	ADACVDD1	—	Power supply pin (+3.3 V) for audio DAC
229	ADACVDD2	—	Power supply pin (+3.3 V) for audio DAC
230	Rt	O	Analog audio down mixed Rt ch output (Fixed at L in this set)
231	Lt	O	Analog audio down mixed Lt ch output (Not used in this set)
232	ADACVSS3	—	Ground pin for audio DAC
233	ADACVDD3	—	Power supply pin (+3.3 V) for audio DAC
234	SADCVDD18	—	Power supply pin (+1.8 V) for SACD ADC
235	SADCVSS18	—	Ground pin for SACD ADC
236	RFGND18	—	Ground pin for RF analog circuitry
237	RFVDD18	—	Power supply pin (+1.8 V) for RF analog circuitry
238	XTALO	O	Crystal output (27 MHz)
239	XTALI	I	Crystal input (27 MHz)
240	JITFO	O	RF jitter meter output
241	JITFN	I	RF jitter meter input
242	PLLVSS	—	Ground pin for data PLL and related analog circuitry
243	PLLVDD3	—	Power supply pin (+3.3 V) for data PLL and related analog circuitry
244	LPFON	O	Loop filter amplifier negative output
245	LPFIP	I	Loop filter amplifier positive input
246	LPFIN	I	Loop filter amplifier negative input
247	LPFOP	O	Loop filter amplifier positive output
248	ADCVDD3	—	Power supply pin (+3.3 V) for ADC circuitry
249	ADCVSS	—	Ground pin for ADC circuitry
250	RFVDD3	—	Power supply pin (+3.3 V) for RF analog circuitry
251	RFRPDC	O	RF ripple detection output
252	RFRPAC	I	RF ripple detection input (through AC-coupling)
253	HRFZC	I	High frequency RF ripple zero crossing input
254	CRTPLP	O	Defect level filter capacitor connecting
255	RFGND18	—	Ground pin for RF digital circuitry
256	OSP	O	RF offset cancellation capacitor connecting pin

MAIN BOARD (1/4) IC401 μ PD78F1106GF(S)-GAS-AX (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{O-FRONT-A-MUTE}}$	O	Front speaker output mute (L: mute ON)
2	$\overline{\text{O-SURR-A-MUTE}}$	O	Surround speaker output mute (L: mute ON) (HCD-GZR8D/GZR9D)
3	$\overline{\text{O-CENTER-A-MUTE}}$	O	Center speaker output mute (L: mute ON) (HCD-GZR8D/GZR9D)
4	$\overline{\text{O-SW-A-MUTE}}$	O	Subwoofer output mute (L: mute ON)
5	REC-REV	I	Tape deck signal input
6	O-TC-B-TRIG	O	Tape deck B trigger plunger control signal output
7	O-EEP-SCL	O	EEPROM communication (Clock) signal output
8	O-EEP-SDA	I/O	EEPROM communication (Data) signal input/output
9	O-DMP-SW	O	DMP adaptor power supply control signal output (H: power supply)
10	O-TC-A-TRIG	O	Tape deck A trigger plunger control signal output
11	O-VIDEO-SEL	O	Video output select signal output (L: signal input from DMB18 board, H: signal input from VIDEO/SAT (VIDEO IN))
12	O-VIDEO-MUTE	O	Video output mute signal output (L: mute ON)
13	$\overline{\text{I-AC-CUT}}$	I	AC cut decision signal input (L: AC cut)
14	O-TC-CAPM-CNT	O	Capstan motor control signal output
15	O-AUDIO_IC-DATA	O	R2A15216FP (IC101) communication (Data) signal output
16	O-AUDIO_IC-CLK	O	R2A15216FP (IC101) communication (Clock) signal output
17	O-TC-REC/PB_SW	O	Tape deck control signal output
18	O-TC-REC-MUTE	O	Tape deck B recording mute signal output
19	O-TC-REC-BIAS	O	Recording bias control signal output
20	EVss1	—	Ground
21	O-STK-MUTE	O	Surround/center speaker amp ON/OFF signal output (H: amp ON) (HCD-GZR8D/GZR9D)
22	I-DMP-OVER-CURRENT	I	Not used. (Fixed at H in this set)
23	O-SUR&CEN-SP-RELAY	O	Surround/center speaker relay control signal output (L: relay ON) (HCD-GZR8D/GZR9D)
24	O-DVD-POWER	O	DMB18 board power supply control signal output
25	O-FRONT-SP-RELAY	O	Front speaker relay control signal output (L: relay ON)
26	O-TU-DI	O	Tuner IC communication (Data: MCU \rightarrow TUNER) signal output
27	O-TU-CLK	O	Tuner IC communication (Clock) signal output
28	I-TU-DO	I	Tuner IC communication (Data: MCU \leftarrow TUNER) signal input
29	O-TU-CE	O	Tuner IC communication (Chip enable) signal output
30	EVdd1	—	Power supply pin (+3.3 V)
31	I-TU-TUNE	I	Tuner tuned data input
32	I-CDM-OPEN	I	Disc tray open signal input (L: open)
33	I-CDM-TBL-ADR-SW	I	Disc tray position signal input
34	O-CDM-TM-F	O	Disc table motor control signal output
35	O-CDM-TM-R	O	Disc table motor control signal output
36	O-CDM-LM-F	O	Disc tray motor control signal output
37	O-CDM-LM-R	O	Disc tray motor control signal output
38	O-SW-SP-RELAY	O	Subwoofer relay control signal output (L: relay ON)
39	I-DVD-KRMOD	I	Karaoke mode signal input (H: ON)
40	O-MTK-MICREQ	O	MIC IN information signal output (H: MIC IN, MCU \rightarrow DMB18 board) signal output
41	O-MTK-IFBSY	O	Interface busy signal output
42	O-MTK-MTRST	O	MTK IC reset signal output (L: reset)
43	I-DVD-XIFS	I	Communication signal input from DMB18 board
44	O-MTK-DATA	O	Communication (Data: MCU \rightarrow DMB18 board) signal output for DMB18 board
45	I-MTK-DATA	I	Communication (Data: MCU \leftarrow DMB18 board) signal input from DMB18 board
46	I-MTK-CLK	I	Communication (Clock) signal input from DMB18 board
47	AVref1	—	Analog reference voltage (+3.3 V)
48	O-FAN	O	Fan motor control signal output
49	O-STBY-RELAY	O	Main power relay signal output (H: relay ON)
50	AVref0	—	Analog reference voltage (+3.3 V)
51	AVss	—	Analog ground

HCD-GZR7D/GZR8D/GZR9D

Pin No.	Pin Name	I/O	Description
52	I-POWER-MONITOR(ACP)	I	Power monitor signal input
53	I-MODEL	I	Model identification signal input
54	I-SUFFIX	I	Destination identification signal input
55	DVD-POWER-MONITOR(3.3V)	I	DVD power monitor signal input
56	I-CDM-ENC(E1,E2,E3)	I	Disc tray signal input
57	I-MIC/HP-DET	I	Mic in/headphone signal input
58	I-VACS	I	VACS signal input
59	I-ILLUMINATION	I	Audio level signal input for illumination
60	I-TC-STAT(A-HALF/B-HALF/REC-FWD)	I	Tape deck signal input
61	USB-LEVEL-SINK-DET	I	Not used. (Connect to AVss)
62	I-DMP-DET	I	DMPORT detection signal input
63	I-VOL	I	Volume signal input
64	I-KEY4	I	Key 4 signal input
65	I-KEY3	I	Key 3 signal input
66	I-KEY2	I	Key 2 signal input
67	I-KEY1	I	Key 1 signal input
68	O-LED-STBY	O	STANDBY LED control signal output (H: light ON)
69	O-FLD-RESET	O	FL display driver IC control (Reset) signal output
70	O-FLD-CLK	O	FL display driver IC control (Clock) signal output
71	O-FLD-CHIPSELECT	O	FL display driver IC control (Chip select) signal output
72	O-FLD-DATA	O	FL display driver IC control (Data) signal output
73	O-VOL-IC-CLK	O	M61530FP-D60G (IC201) control (Clock) signal output (HCD-GZR8D/GZR9D)
74	TC-A-SHUT	I	Deck A shut off signal input
75	TC-B-SHUT	I	Deck B shut off signal input
76	O-DMP-DATA	O	DMPORT adaptor control (Data: MCU → DMPORT) signal output
77	I-DMP-DATA	I	DMPORT adaptor control (Data: MCU ← DMPORT) signal input
78	O-VOL-IC-DATA	O	M61530FP-D60G (IC201) control (Data) signal output (HCD-GZR8D/GZR9D)
79	USB-LED-BLUE	O	USB illuminator LED (Blue) control signal output
80	USB-LED-RED	O	USB illuminator LED (Red) control signal output
81	I-RMC	I	Remote control signal receiver sircs signal input
82	O-LED-ILL1	O	Power illuminator LED 1 control signal output
83	I-KEYWAKE-UP	I	Power key interrupt signal input
84	O-LED-ILL2	O	Power illuminator LED 2 control signal output
85	O-LED-ILL3	O	Power illuminator LED 3 control signal output
86	O-LED-ILL4	O	Power illuminator LED 4 control signal output
87	O-LED-ILL5	O	Power illuminator LED 5 control signal output
88	O-LED-ILL6	O	Power illuminator LED 6 control signal output
89	SI/SO	I/O	Data input/output for tool
90	RESET	I	System reset signal input
91	XT2	I	Sub system clock signal input (32.768 kHz)
92	XT1	O	Sub system clock signal output (32.768 kHz)
93	FLMD0	I	FL mode setting signal input
94	X2	I	Main system clock signal input (20 MHz)
95	X1	O	Main system clock signal output (20 MHz)
96	REGC	—	Regulator ripple capacitor connecting
97	Vss	—	Ground
98	EVss	—	Ground
99	Vdd	—	Power supply pin (+3.3 V)
100	EVdd0	—	Power supply pin (+3.3 V)

SECTION 8 EXPLODED VIEWS

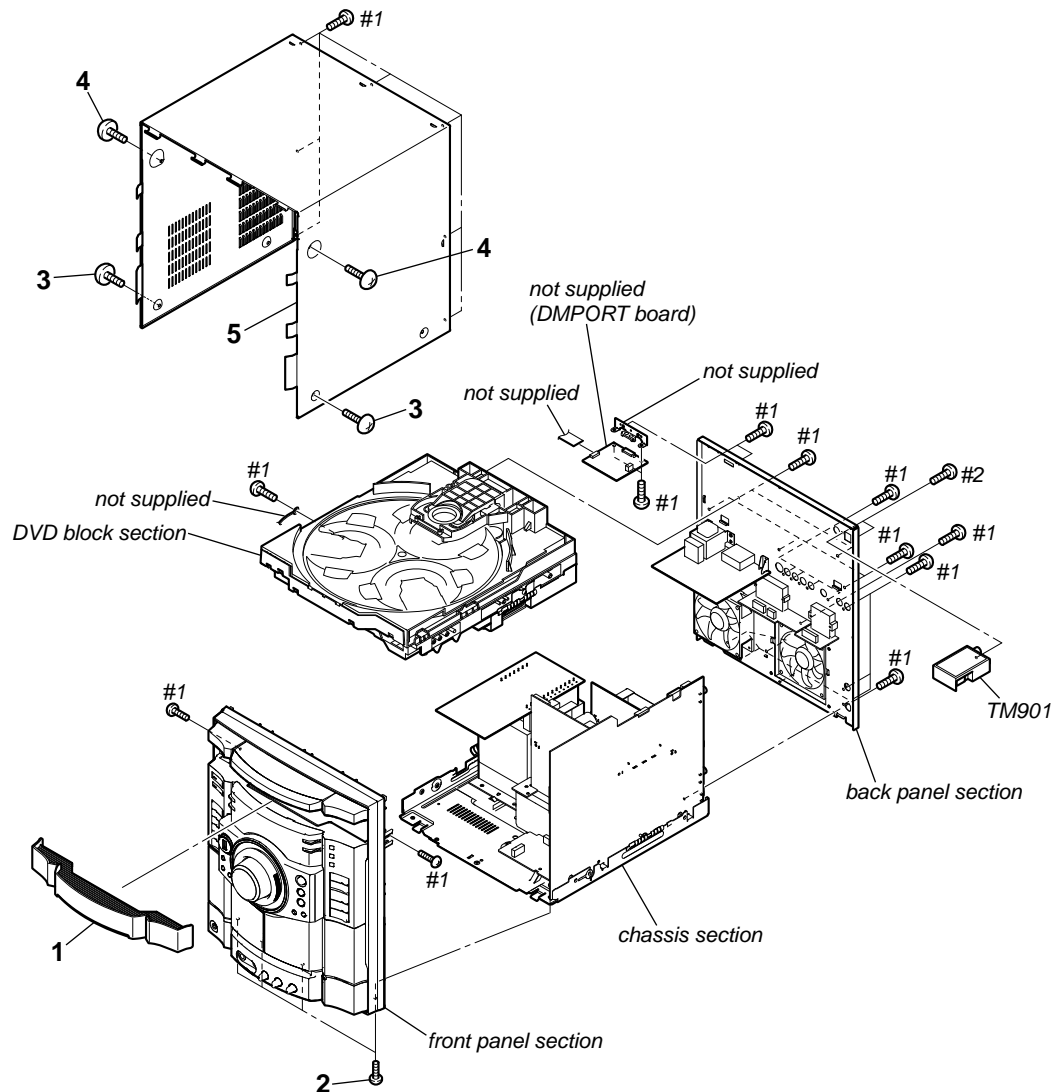
Note:

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

- Abbreviation
- RU : Russian model
- AUS : Australian model
- EA : Saudi Arabia model
- E3 : 240V AC area in E model
- E15 : Iran model
- PH : Philippines model
- SP : Singapore model
- TH : Thai model
- E2 : 120V AC area in E model
- AR : Argentina model
- E12 : 220 – 240V AC area in E model

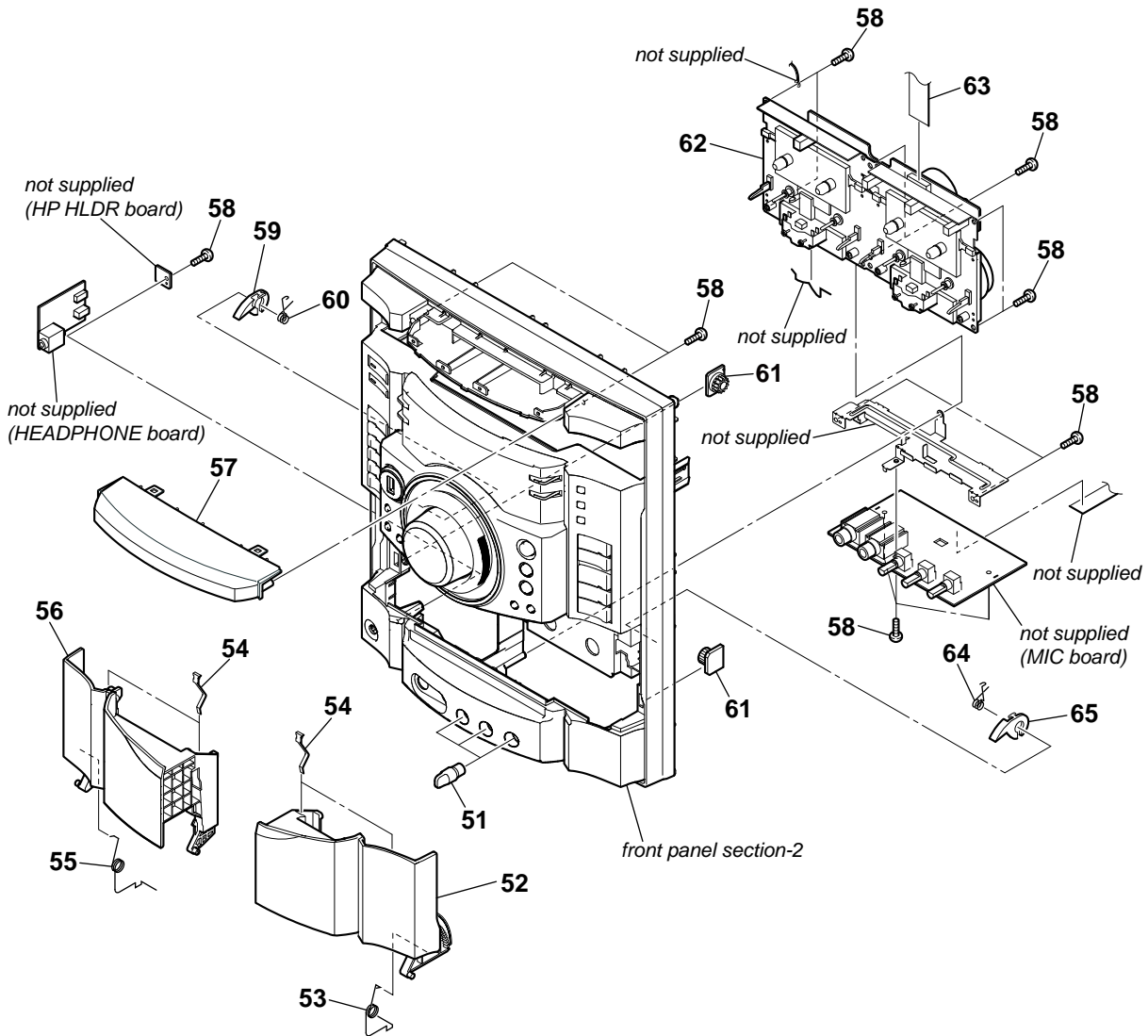
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

8-1. OVERALL SECTION



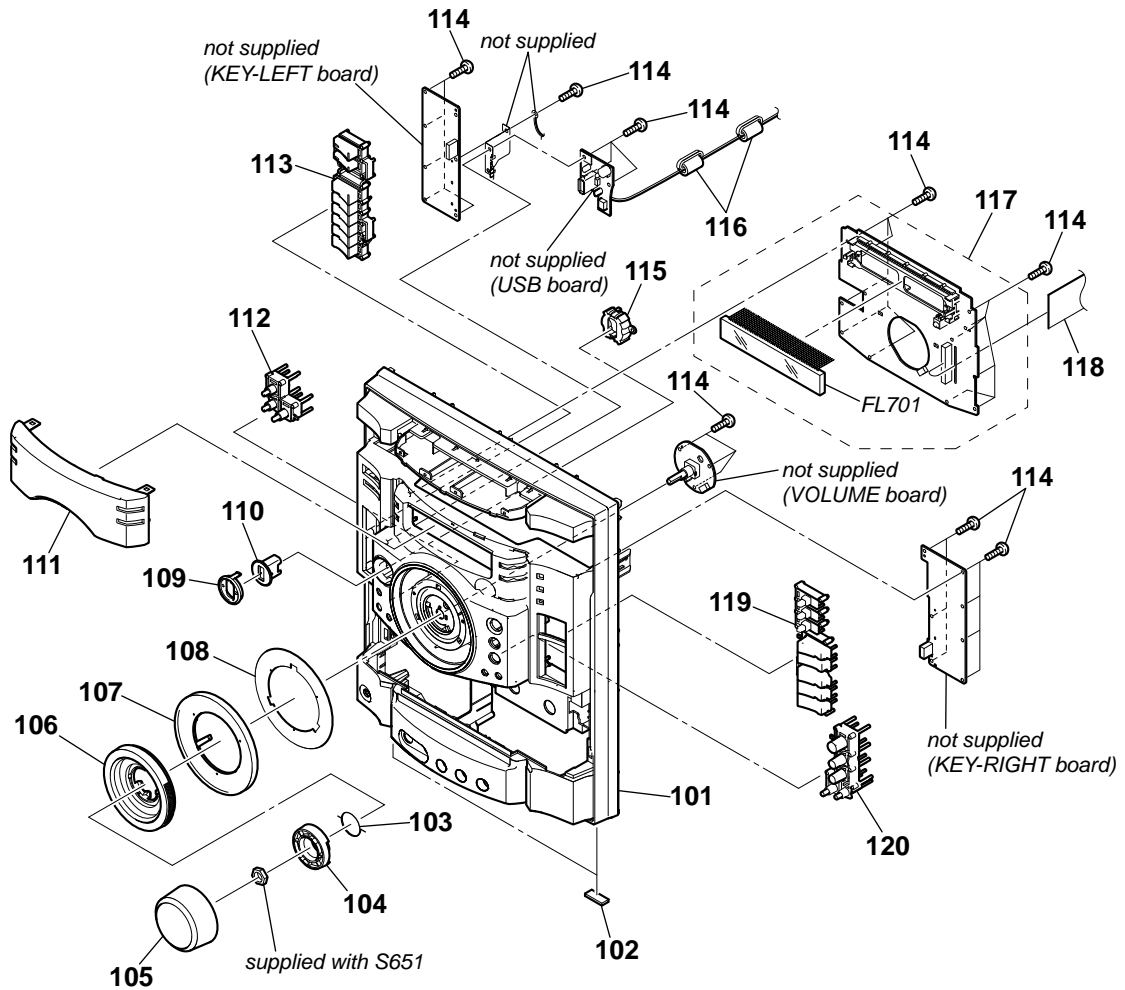
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-285-873-02	PANEL, LOADING (GZR8D/GZR9D:EXCEPT RU,AUS)		4	3-363-099-32	SCREW (CASE 3 TP2)	
1	3-285-873-12	PANEL, LOADING (GZR9D:RU,AUS)		5	3-879-640-11	CASE (GZR7D)	
1	3-285-873-22	PANEL, LOADING (GZR7D:EXCEPT RU)		5	3-879-640-31	CASE (GZR8D/GZR9D)	
1	3-285-873-32	PANEL, LOADING (GZR7D:RU)		TM901	1-693-760-11	TUNER (FM/AM) (ANTENNA) (RU)	
2	3-077-331-21	+BV 3 (3-CR)		TM901	1-693-761-11	TUNER (FM/AM) (ANTENNA) (EXCEPT RU)	
3	3-363-099-02	SCREW (CASE 3 TP2)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
				#2	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	

8-2. FRONT PANEL SECTION-1



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	2-638-220-11	KNOB (MIC)		58	3-087-053-01	+BVTP 2.6 (3CR)	
52	3-285-826-01	LID (TC-R)		59	4-231-824-01	CAM (A), HEART	
53	3-285-872-02	SPRING (TC-R)		60	4-231-836-01	SPRING (HEART CAM-A)	
54	2-669-613-01	SPRING, DETENT		61	4-224-104-41	DAMPER	
55	3-285-871-02	SPRING (TC-L)		62	1-417-657-13	MECHA DECK	
56	3-285-825-01	LID (TC-L)		63	1-831-928-21	CABLE, FLEXIBLE FLAT (11 CORE)	
57	3-285-837-01	ORNAMENT (TOP) (GZR7D)		64	4-231-841-01	SPRING (HEART CAM-B)	
57	3-285-837-11	ORNAMENT (TOP) (GZR8D)		65	4-231-825-01	CAM (B), HEART	
57	3-285-837-21	ORNAMENT (TOP) (GZR9D)					

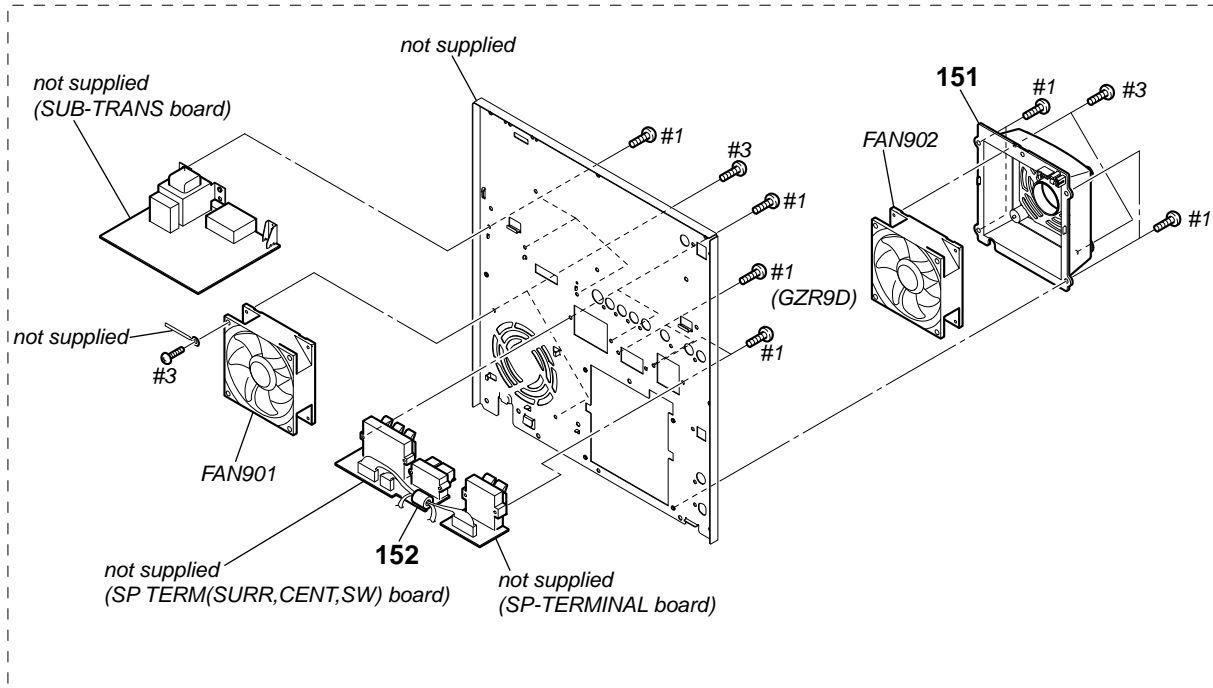
8-3. FRONT PANEL SECTION-2



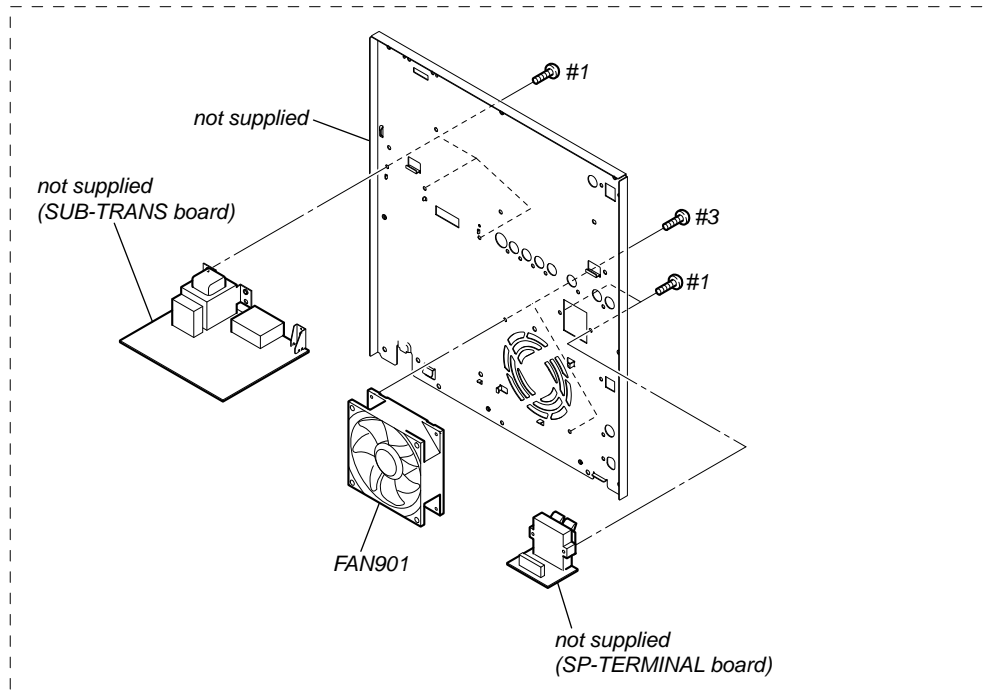
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-2318-601-1	PANEL ASSY, FRONT (GZR7D/GZR8D)		112	3-285-836-01	BUTTON (EQ)	
101	X-2318-602-1	PANEL (9D) ASSY, FRONT (GZR9D)		113	X-2318-599-1	BUTTON (POWER) ASSY (GZR7D/GZR8D)	
102	4-225-252-01	CUSHION (FOOT)		113	X-2318-600-1	BUTTON (POWER 9D) ASSY (GZR9D)	
103	4-252-223-01	SPRING, KNOB		114	3-087-053-01	+BVTP 2.6 (3CR)	
104	3-285-839-01	HOLDER (JOG)		114	3-087-053-01	+BVTP 2.6 (3CR)	
105	3-285-874-01	KNOB (VOL)		115	3-700-512-01	BASE (USB)	
106	3-285-838-01	KNOB (JOG)		116	1-500-933-11	CORE, FERRITE	
107	3-285-834-01	REFLECTOR (LED)		117	A-1488-020-A	PANEL BOARD, COMPLETE (GZR9D)	
108	3-285-840-01	SHEET (LED)		117	A-1493-105-A	PANEL BOARD, COMPLETE (GZR7D/GZR8D)	
109	3-285-841-01	ORNAMENT (USB)		118	1-832-916-21	CABLE, FLEXIBLE FLAT (29 CORE)	
110	3-285-842-01	INDICATOR (USB)		119	3-285-828-01	BUTTON (DISC)	
111	3-285-833-02	WINDOW (DISPLAY)		120	3-285-835-01	BUTTON (PLAY)	
				FL701	1-483-001-11	INDICATOR TUBE, FLUORESCENT	

8-4. BACK PANEL SECTION

HCD-GZR8D/GZR9D

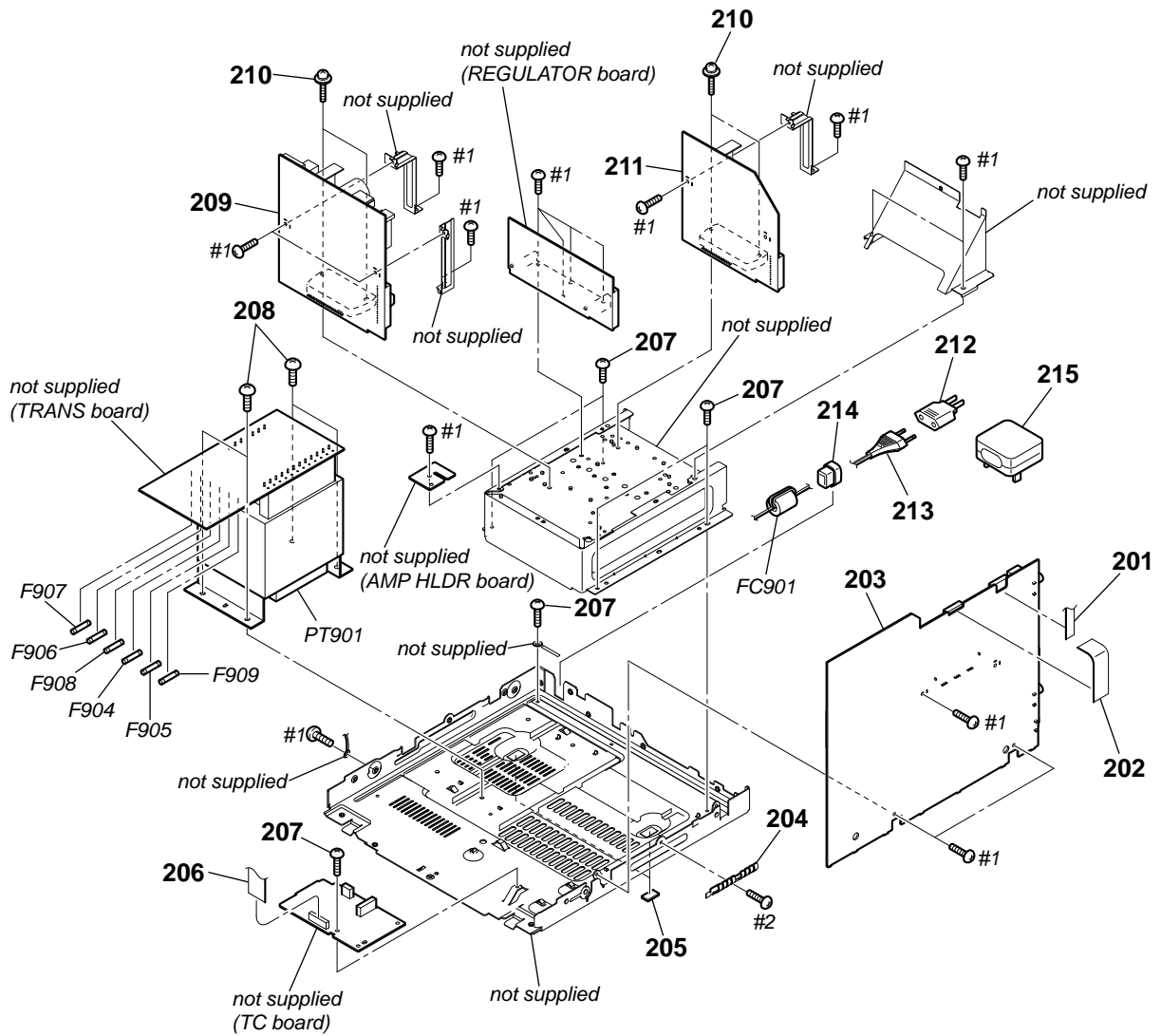


HCD-GZR7D



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	3-285-881-01	COVER (FAN) (GZR8D/GZR9D)		FAN902	1-787-400-21	FAN (DC) (GZR8D/GZR9D)	
152	1-543-798-11	FILTER, CLAMP (FERRITE CORE) (EA,RU,AUS)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
FAN901	1-787-400-11	D.C. FAN (GZR7D)		#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
FAN901	1-787-400-31	FAN (DC) (GZR8D/GZR9D)					

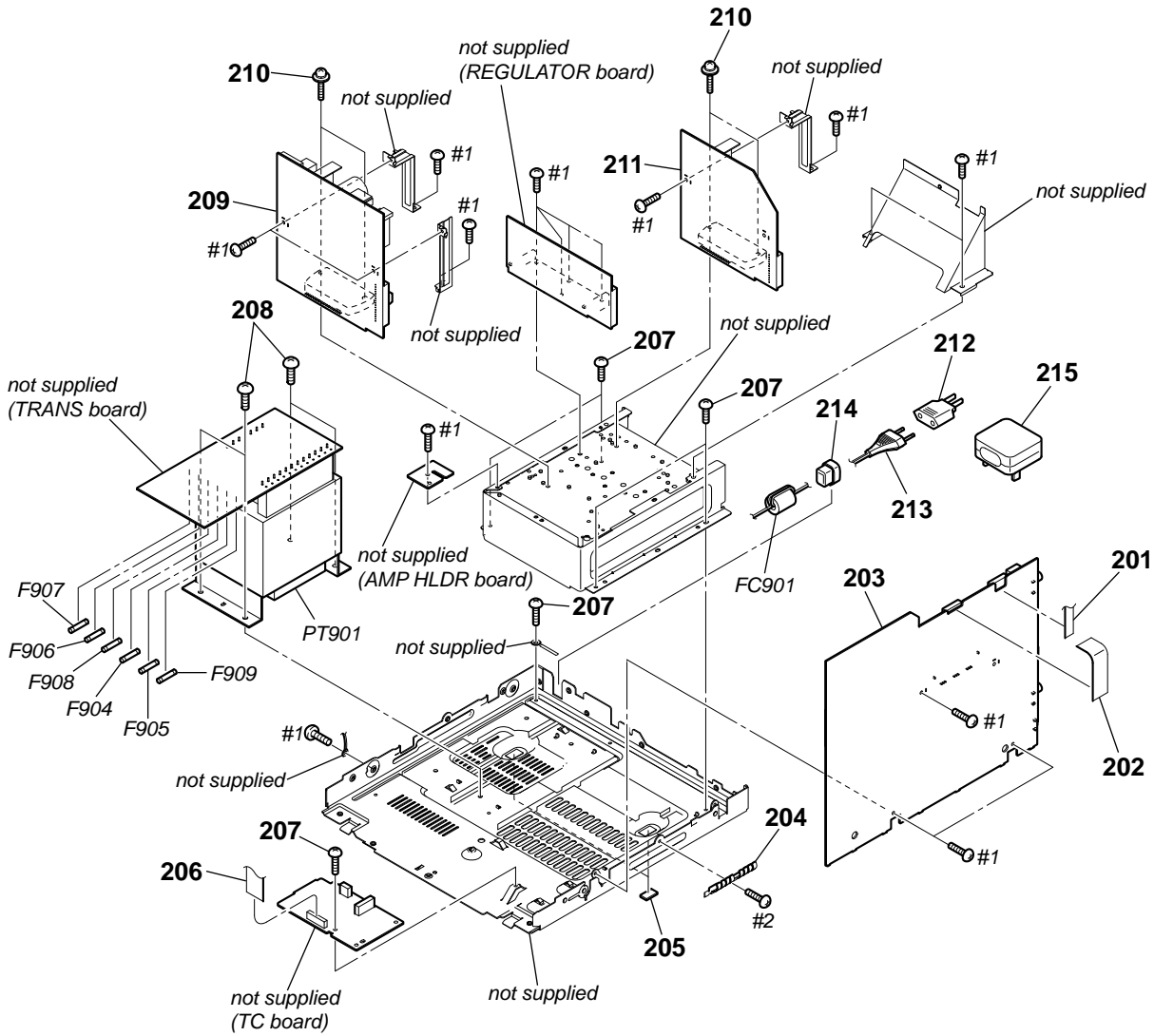
8-5. CHASSIS SECTION-1



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	1-832-053-21	CABLE, FLEXIBLE FLAT (9 CORE)		208	4-900-386-01	SCREW	
202	1-831-786-21	CABLE, FLEXIBLE FLAT (13 CORE)		209	A-1488-031-A	AMP FR & SW BOARD, COMPLETE (GZR9D:E3,E15,PH,SP,AUS)	
203	A-1488-027-A	MAIN BOARD, COMPLETE (GZR9D:E3,E15)		209	A-1493-110-A	AMP FR & SW BOARD, COMPLETE (GZR8D:EXCEPT EA)	
203	A-1489-658-A	MAIN BOARD, COMPLETE (GZR9D:PH,SP)		209	A-1493-882-A	AMP FR & SW BOARD, COMPLETE (GZR9D:E2,AR)	
203	A-1489-660-A	MAIN BOARD, COMPLETE (GZR9D:E2,AR)		209	A-1509-909-A	AMP FR & SW BOARD, COMPLETE (GZR7D:EXCEPT EA,RU)	
203	A-1489-662-A	MAIN BOARD, COMPLETE (GZR9D:RU)		209	A-1538-533-A	AMP FR & SW BOARD, COMPLETE (GZR9D:RU)	
203	A-1493-107-A	MAIN BOARD, COMPLETE (GZR8D:E3,E15)		209	A-1538-535-A	AMP FR & SW BOARD, COMPLETE (GZR7D:RU)	
203	A-1493-113-A	MAIN BOARD, COMPLETE (GZR8D:E12)		209	A-1548-104-A	AMP FR & SW BOARD, COMPLETE (GZR9D:EA)	
203	A-1493-118-A	MAIN BOARD, COMPLETE (GZR8D:PH,SP,TH)		209	A-1548-130-A	AMP FR & SW BOARD, COMPLETE (GZR8D:EA)	
203	A-1493-879-A	MAIN BOARD, COMPLETE (GZR7D:E3,E15)		209	A-1548-139-A	AMP FR & SW BOARD, COMPLETE (GZR7D:EA)	
203	A-1493-883-A	MAIN BOARD, COMPLETE (GZR7D:E12)		210	3-905-609-31	SCREW (TRANSISTOR)	
203	A-1493-888-A	MAIN BOARD, COMPLETE (GZR7D:PH,SP,TH)		211	A-1488-059-A	SURR & CENT AMP BOARD, COMPLETE (GZR9D:EXCEPT EA)	
203	A-1493-890-A	MAIN BOARD, COMPLETE (GZR7D:RU)		211	A-1548-113-A	SURR & CENT AMP BOARD, COMPLETE (GZR9D:EA)	
203	A-1545-269-A	MAIN BOARD, COMPLETE (GZR9D:AUS)		211	A-1550-916-A	SURR & CENT AMP BOARD, COMPLETE (GZR8D:EXCEPT EA)	
203	A-1548-114-A	MAIN BOARD, COMPLETE (GZR9D:EA)		211	A-1550-918-A	SURR & CENT AMP BOARD, COMPLETE (GZR8D:EA)	
203	A-1548-133-A	MAIN BOARD, COMPLETE (GZR8D:EA)					
203	A-1548-141-A	MAIN BOARD, COMPLETE (GZR7D:EA)					
204	3-876-029-01	SPRING (EMC)					
205	4-225-252-01	CUSHION (FOOT)					
206	1-832-434-21	CABLE, FLEXIBLE FLAT (11 CORE)					
207	3-077-331-21	+BV 3 (3-CR)					

- Continued on next page -

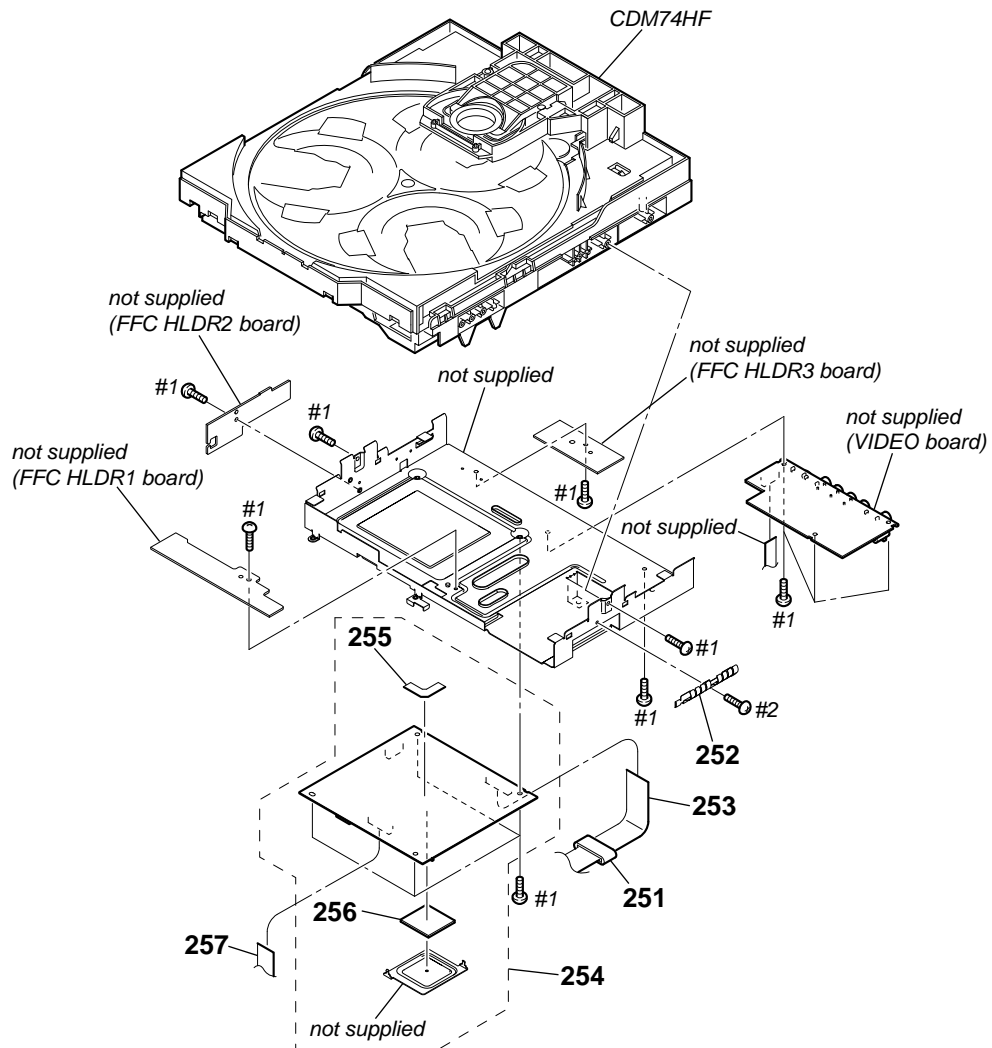
8-6. CHASSIS SECTION-2



Ref. No.	Part No.	Description	Remark
△ 212	1-569-008-22	ADAPTOR, CONVERSION 2P (E2,E3,E15,PH,SP)	
△ 213	1-829-387-11	CORD, POWER (AR)	
△ 213	1-834-288-21	POWER-SUPPLY CORD (TH)	
△ 213	1-834-966-11	CORD, POWER (EXCEPT TH,AUS,AR)	
△ 213	1-834-967-11	CORD, POWER (AUS)	
214	3-703-244-00	BUSHING (2104), CORD (EXCEPT TH)	
214	4-916-783-01	BUSHING, CORD (TH)	
△ 215	1-770-019-61	ADAPTOR, CONVERSION PLUG (EA)	
△ F904	1-532-506-33	FUSE (T6.3AL/250V) (GZR7D)	
△ F904	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V) (GZR8D)	
△ F904	1-576-332-33	FUSE, CYLINDRICAL (TIME LUG) (T10AL/250V) (GZR9D)	
△ F905	1-532-506-33	FUSE (T6.3AL/250V) (GZR7D)	
△ F905	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V) (GZR8D)	
△ F905	1-576-332-33	FUSE, CYLINDRICAL (TIME LUG) (T10AL/250V) (GZR9D)	
△ F906	1-532-505-33	FUSE (T5AL/250V)	
△ F907	1-532-465-33	FUSE (T3.15AL/250V)	
△ F908	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V) (GZR7D/GZR8D)	

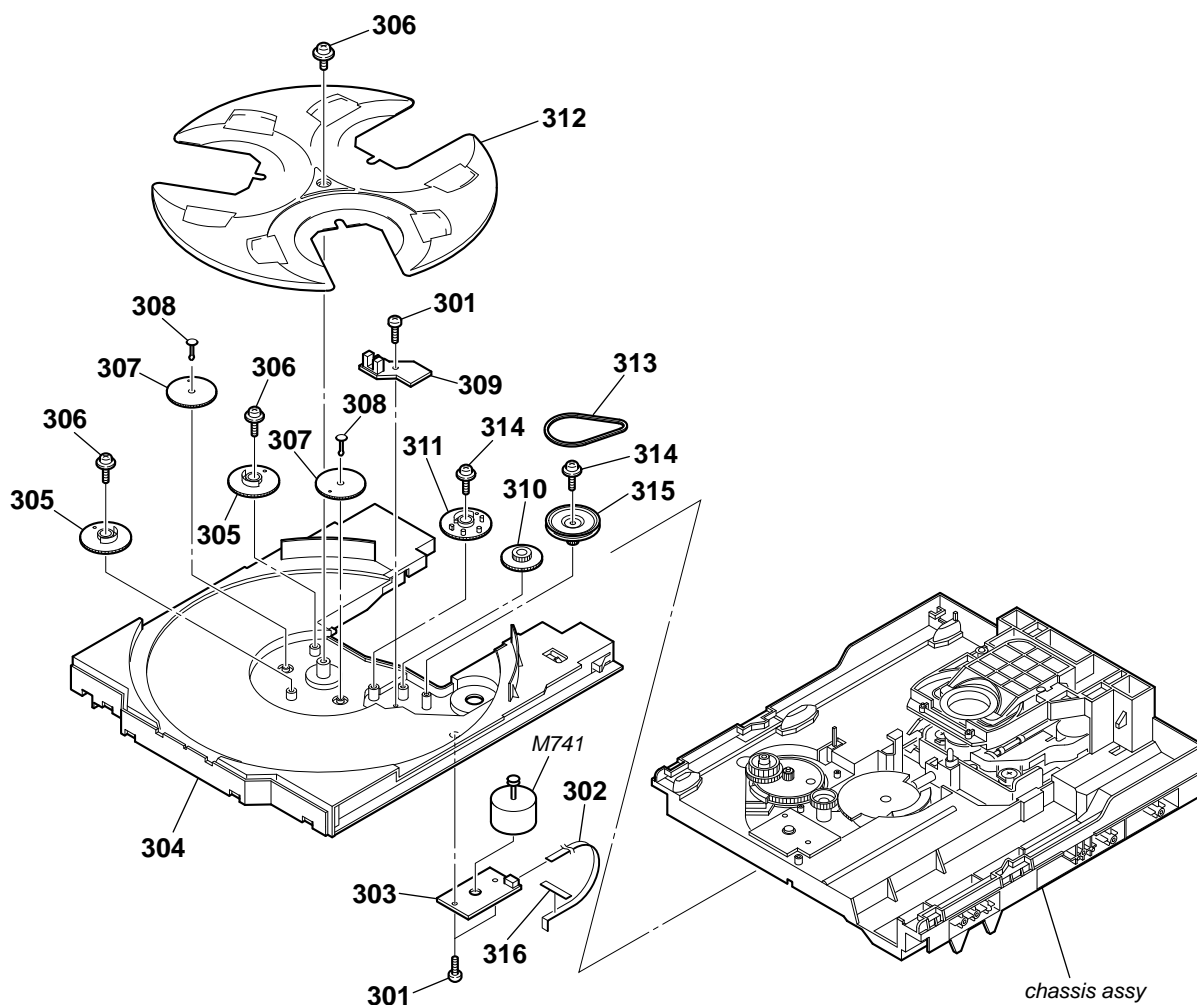
Ref. No.	Part No.	Description	Remark
△ F908	1-576-332-33	FUSE, CYLINDRICAL (TIME LUG) (T10AL/250V) (GZR9D)	
△ F909	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V) (GZR7D/GZR8D)	
△ F909	1-576-332-33	FUSE, CYLINDRICAL (TIME LUG) (T10AL/250V) (GZR9D)	
FC901	1-481-419-11	CORE, FERRITE	
△ PT901	1-445-398-11	TRANSFORMER, POWER (MAIN) (GZR9D:EXCEPT EA,RU)	
△ PT901	1-445-398-21	TRANSFORMER, POWER (MAIN) (GZR9D:EA)	
△ PT901	1-445-400-11	TRANSFORMER, POWER (MAIN) (GZR7D:EXCEPT EA,RU)	
△ PT901	1-445-400-21	TRANSFORMER, POWER (MAIN) (GZR7D:EA)	
△ PT901	1-445-401-11	TRANSFORMER, POWER (MAIN) (GZR7D:RU)	
△ PT901	1-445-403-11	TRANSFORMER, POWER (MAIN) (GZR9D:RU)	
△ PT901	1-445-405-11	TRANSFORMER, POWER (MAIN) (GZR8D:EXCEPT EA)	
△ PT901	1-445-405-21	TRANSFORMER, POWER (MAIN) (GZR8D:EA)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	

8-7. DVD BLOCK SECTION



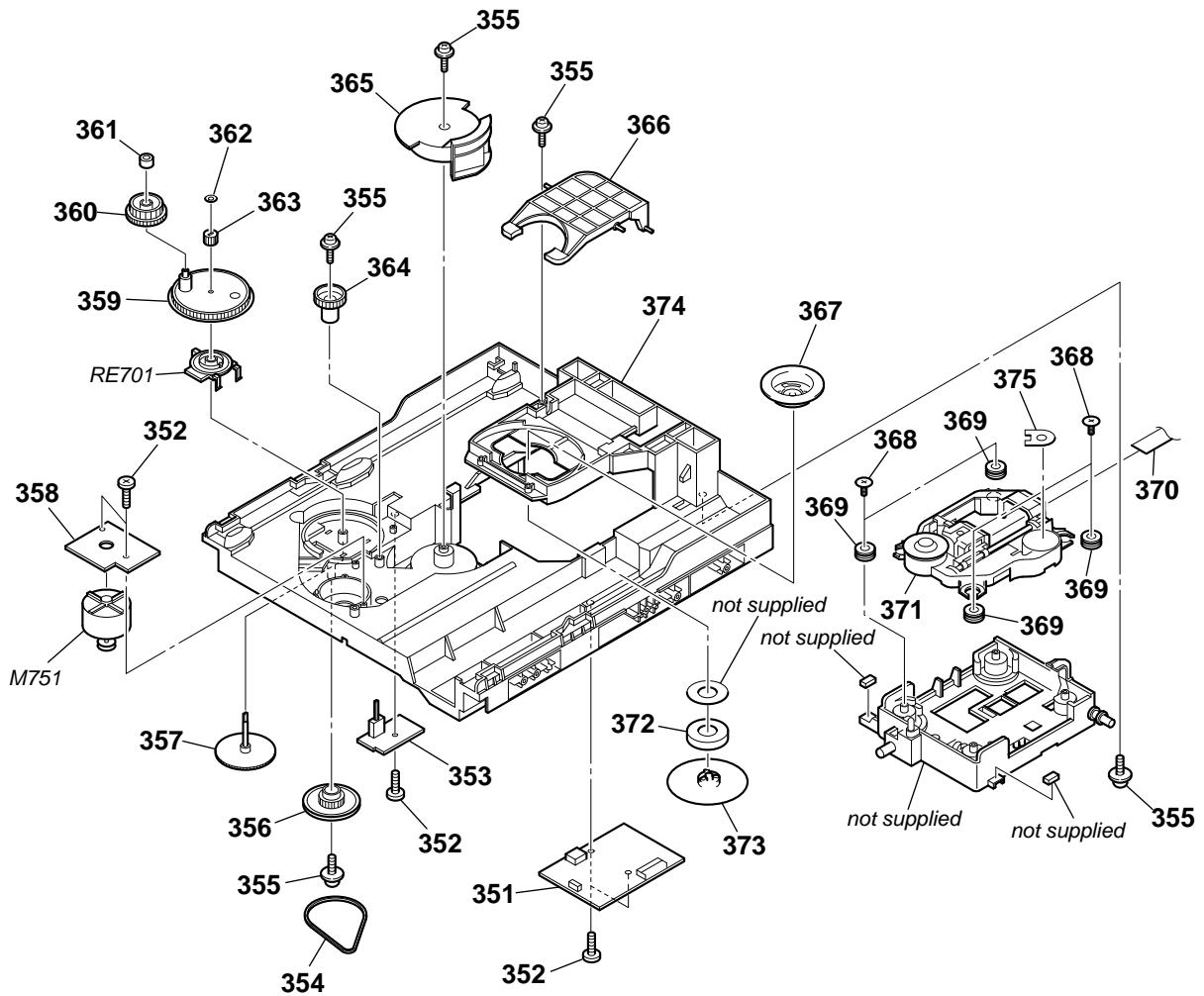
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	1-481-362-11	CORE, FERRITE		254	A-1486-629-A	DMB18 BOARD, COMPLETE (for SERVICE)	(GZR9D:RU)
252	3-876-029-01	SPRING (EMC)		254	A-1486-631-A	DMB18 BOARD, COMPLETE (for SERVICE)	(GZR9D:E2,AR)
253	1-832-620-21	CABLE, FLEXIBLE FLAT (21 CORE)	(GZR8D/GZR9D)	254	A-1486-632-A	DMB18 BOARD, COMPLETE (for SERVICE)	(GZR9D:PH,SP)
253	1-832-630-21	CABLE, FLEXIBLE FLAT (23 CORE) (GZR7D)		254	A-1546-305-A	DMB18 BOARD, COMPLETE (for SERVICE)	(GZR9D:AUS)
254	A-1486-620-A	DMB18 BOARD, COMPLETE (for SERVICE)	(GZR7D:E3,E15)	254	A-1551-519-A	DMB18 BOARD, COMPLETE (for SERVICE)	(GZR7D:EA)
254	A-1486-621-A	DMB18 BOARD, COMPLETE (for SERVICE)	(GZR7D:RU)	254	A-1551-520-A	DMB18 BOARD, COMPLETE (for SERVICE)	(GZR8D:EA)
254	A-1486-622-A	DMB18 BOARD, COMPLETE (for SERVICE)	(GZR7D:E12)	254	A-1551-521-A	DMB18 BOARD, COMPLETE (for SERVICE)	(GZR9D:EA)
254	A-1486-623-A	DMB18 BOARD, COMPLETE (for SERVICE)	(GZR7D:PH,SP,TH)	255	4-106-844-01	SHEET (DMB), COPPER LEAF	
254	A-1486-624-A	DMB18 BOARD, COMPLETE (for SERVICE)	(GZR8D:E3,E15)	256	4-231-099-41	SHEET, RADIATION	
254	A-1486-626-A	DMB18 BOARD, COMPLETE (for SERVICE)	(GZR8D:E12)	257	1-832-589-21	CABLE, FLEXIBLE FLAT (15 CORE)	
254	A-1486-627-A	DMB18 BOARD, COMPLETE (for SERVICE)	(GZR8D:PH,SP,TH)	#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
254	A-1486-628-A	DMB18 BOARD, COMPLETE (for SERVICE)	(GZR9D:E3,E15)				

8-8. DVD MECHANISM DECK SECTION-1



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	4-218-253-62	SCREW (M2.6), +BTTP		310	4-243-820-01	GEAR (TABLE)	
302	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)		311	4-243-819-01	GEAR (GENEVA)	
303	1-687-133-12	MOTOR (LD) BOARD		312	4-243-816-21	TRAY	
304	4-243-815-11	TABLE (LOADING)		313	4-243-823-01	BELT (TABLE)	
305	4-245-571-02	GEAR (STOPPER)		314	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
306	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING		315	4-243-821-01	PULLEY (TABLE)	
307	4-245-570-01	GEAR (JOINT)		316	3-231-598-01	SHEET (BA)	
308	4-245-572-01	BUSHING (GEAR)		M741	A-1108-965-A	MOTOR ASSY, TABLE (TABLE)	
309	1-687-132-12	SENSOR BOARD					

8-9. DVD MECHANISM DECK SECTION-2



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
351	A-1103-756-B	DRIVER BOARD, COMPLETE		365	4-243-818-01	GEAR (U/D)	
352	4-218-253-52	SCREW (M2.6), +BTTP		366	2-541-918-01	LEVER (LIFTER (H))	
353	1-687-669-12	SW BOARD		367	2-345-983-01	PULLEY B (310), CHUCKING	
354	4-244-034-01	BELT (LOADING)		368	3-087-599-01	SCREW, INSULATOR	
355	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING		369	2-634-618-01	INSULATOR	
356	4-225-844-01	GEAR (LOADING A)		370	1-828-252-51	CABLE, FLEXIBLE FLAT (24 CORE)	
357	4-224-613-11	GEAR (SHAFT)		△ 371	8-820-322-04	OPTICAL PICK-UP (KHM-313CAB/C2RP)	
358	1-687-133-12	MOTOR (LD) BOARD		372	4-251-923-01	YOKE (310)	
359	4-244-108-01	GEAR, SWING		373	2-345-982-01	PULLEY A (310), CHUCKING	
360	4-224-609-01	GEAR (LOADING C)		374	4-243-817-22	CHASSIS	
361	4-224-608-01	COLLAR, SWING		375	3-113-851-01	SHEET	
362	3-016-533-11	WASHER (FR), STOPPER		M751	A-1108-966-A	MOTOR ASSY, LOADING (LOADING)	
363	4-224-611-01	GEAR (LOADING B)		RE701	1-477-680-12	ENCODER, ROTARY	
364	4-224-606-01	GEAR (RV)				(DISC TRAY ADDRESS DETECT)	

SECTION 9
ELECTRICAL PARTS LIST

Note:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX 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 name.

- Abbreviation
E3 : 240V AC area in E model
E15 : Iran model
PH : Philippines model
SP : Singapore model
TH : Thai model
AUS : Australian model
EA : Saudi Arabia model
E2 : 120V AC area in E model
AR : Argentina model
RU : Russian model
E12 : 220 – 240V AC area in E model

Ref. No.	Part No.	Description	Remark
	A-1488-031-A	AMP FR & SW BOARD, COMPLETE (GZR9D:E3,E15,PH,SPAUS)	
	A-1493-110-A	AMP FR & SW BOARD, COMPLETE (GZR8D:EXCEPT EA)	
	A-1493-882-A	AMP FR & SW BOARD, COMPLETE (GZR9D:E2,AR)	
	A-1509-909-A	AMP FR & SW BOARD, COMPLETE (GZR7D:EXCEPT EA,RU)	
	A-1538-533-A	AMP FR & SW BOARD, COMPLETE (GZR9D:RU)	
	A-1538-535-A	AMP FR & SW BOARD, COMPLETE (GZR7D:RU)	
	A-1548-104-A	AMP FR & SW BOARD, COMPLETE (GZR9D:EA)	
	A-1548-130-A	AMP FR & SW BOARD, COMPLETE (GZR8D:EA)	
	A-1548-139-A	AMP FR & SW BOARD, COMPLETE (GZR7D:EA) *****	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3 < CAPACITOR >	
C403	1-137-749-11	MYLAR 0.1uF	100V
C404	1-137-749-11	MYLAR 0.1uF	100V
C409	1-127-811-11	ELECT(BLOCK) 3300uF	20% 50V (GZR9D:E2,AR)
C409	1-135-515-21	ELECT 3300uF	20% 50V (GZR9D:EXCEPT E2,AR)
C409	1-135-832-21	ELECT 2200uF	20% 50V (GZR7D/GZR8D)
C410	1-127-811-11	ELECT(BLOCK) 3300uF	20% 50V (GZR9D:E2,AR)
C410	1-135-515-21	ELECT 3300uF	20% 50V (GZR9D:EXCEPT E2,AR)
C410	1-135-832-21	ELECT 2200uF	20% 50V (GZR7D/GZR8D)
C411	1-137-841-11	ELECT(BLOCK) 2200uF	20% 71V (GZR9D:E2,AR)
C411	1-137-847-21	ELECT 2200uF	20% 71V (EXCEPT GZR9D:E2,AR)
C412	1-137-841-11	ELECT(BLOCK) 2200uF	20% 71V (GZR9D:E2,AR)
C412	1-137-847-21	ELECT 2200uF	20% 71V (EXCEPT GZR9D:E2,AR)
C413	1-136-497-81	FILM 0.1uF	5% 50V
C414	1-136-497-81	FILM 0.1uF	5% 50V
C431	1-126-964-11	ELECT 10uF	20% 50V (GZR9D)
C432	1-164-315-11	CERAMIC CHIP 470PF	5% 50V (GZR9D)
C433	1-126-967-11	ELECT 47uF	20% 50V (GZR9D)

Ref. No.	Part No.	Description	Remark
C435	1-162-927-11	CERAMIC CHIP 100PF	5% 50V (GZR9D)
C436	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V (RU)
C437	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V (GZR9D:RU)
C438	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V (RU)
C441	1-126-964-11	ELECT 10uF	20% 50V
C442	1-126-964-11	ELECT 10uF	20% 50V
C443	1-164-315-11	CERAMIC CHIP 470PF	5% 50V
C444	1-164-315-11	CERAMIC CHIP 470PF	5% 50V
C445	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C446	1-162-927-11	CERAMIC CHIP 100PF	5% 50V
C447	1-126-967-11	ELECT 47uF	20% 50V
C448	1-126-967-11	ELECT 47uF	20% 50V
C451	1-136-497-81	FILM 0.1uF	5% 50V
C452	1-136-497-81	FILM 0.1uF	5% 50V
C453	1-136-497-81	FILM 0.1uF	5% 50V (GZR9D)
C454	1-136-497-81	FILM 0.1uF	5% 50V
C455	1-136-497-81	FILM 0.1uF	5% 50V
C456	1-136-497-81	FILM 0.1uF	5% 50V (GZR9D)
C459	1-164-232-11	CERAMIC CHIP 0.01uF	10% 100V (RU)
C460	1-164-232-11	CERAMIC CHIP 0.01uF	10% 100V (RU)
C461	1-128-562-11	ELECT 47uF	20% 100V
C462	1-128-562-11	ELECT 47uF	20% 100V
C463	1-126-965-11	ELECT 22uF	20% 50V
C464	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V (RU)
C481	1-104-658-11	ELECT 100uF	20% 10V
C486	1-126-960-11	ELECT 1uF	20% 50V
C487	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C491	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V (RU)
		< CONNECTOR >	
* CN442	1-774-629-11	CONNECTOR, BOARD TO BOARD 17P	(GZR8D/GZR9D)
* CN443	1-766-175-11	PIN, CONNECTOR (PC BOARD) 5P	
* CN444	1-564-510-11	PLUG, CONNECTOR 7P (GZR8D/GZR9D)	
CN450	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P (GZR7D)	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< DIODE >		R418	1-216-821-11	METAL CHIP 1K 5%	1/10W
D401	6-500-249-01	DIODE D15XB20 (GZR9D)		R419	1-216-839-11	METAL CHIP 33K 5%	1/10W
D402	6-500-360-01	DIODE D10XB20		△ R420	1-220-893-11	METAL 0.22 10%	5W F
D403	6-500-360-01	DIODE D10XB20 (GZR7D/GZR8D)		R421	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
D441	6-500-334-01	DIODE MC2836-T112-1		R422	1-216-825-11	METAL CHIP 2.2K 5%	1/10W (GZR7D)
D442	6-501-817-01	DIODE MA2J1110GLSO (GZR9D)					
				R422	1-216-864-11	SHORT CHIP 0 (GZR8D/GZR9D)	
D443	6-501-817-01	DIODE MA2J1110GLSO (GZR9D)		R423	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
D445	8-719-923-92	DIODE MTZJ-T-77-16B		R424	1-216-825-11	METAL CHIP 2.2K 5%	1/10W (GZR8D/GZR9D)
D446	8-719-923-92	DIODE MTZJ-T-77-16B		△ R425	1-220-893-11	METAL 0.22 10%	5W F (GZR9D)
D481	6-501-817-01	DIODE MA2J1110GLSO					
D483	6-501-817-01	DIODE MA2J1110GLSO		R426	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
D484	6-501-817-01	DIODE MA2J1110GLSO		R427	1-216-842-11	METAL CHIP 56K 5%	1/10W
D487	8-719-080-57	DIODE FSF05A20 (GZR9D)		R428	1-216-814-11	METAL CHIP 270 5%	1/10W (GZR7D)
D488	8-719-080-57	DIODE FSF05A20 (GZR9D)					
D489	6-501-754-01	DIODE MAZ8091G0LS0		R428	1-216-817-11	METAL CHIP 470 5%	1/10W (GZR8D/GZR9D)
D491	6-500-968-21	DIODE 30PRA20FC (GZR7D/GZR8D)		R429	1-216-842-11	METAL CHIP 56K 5%	1/10W
				R430	1-216-814-11	METAL CHIP 270 5%	1/10W (GZR7D)
D492	6-500-968-21	DIODE 30PRA20FC (GZR7D/GZR8D)					
		< GROUND TERMINAL >		R430	1-216-817-11	METAL CHIP 470 5%	1/10W (GZR8D/GZR9D)
EP401	1-537-771-21	TERMINAL BOARD, GROUND (EA)		R431	1-216-842-11	METAL CHIP 56K 5%	1/10W (GZR9D)
		< IC >		R432	1-216-816-11	METAL CHIP 390 5%	1/10W (GZR9D)
IC401	6-600-674-01	IC STK416-130-E (GZR9D)		R433	1-216-845-11	METAL CHIP 100K 5%	1/10W (GZR9D)
IC402	6-600-582-01	IC STK415-130-E (GZR7D/GZR8D)		R434	1-216-842-11	METAL CHIP 56K 5%	1/10W (GZR9D)
		< TRANSISTOR >					
Q441	6-551-268-01	TRANSISTOR 2SC5625		R435	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q442	6-551-268-01	TRANSISTOR 2SC5625		R436	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q443	6-551-268-01	TRANSISTOR 2SC5625 (GZR9D)		R437	1-216-825-11	METAL CHIP 2.2K 5%	1/10W (GZR9D)
Q480	8-729-036-89	TRANSISTOR KTC3198GR-AT (GZR8D/GZR9D)		R438	1-216-829-11	METAL CHIP 4.7K 5%	1/10W (GZR8D/GZR9D)
Q481	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R438	1-216-833-11	METAL CHIP 10K 5%	1/10W (GZR7D)
Q482	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R439	1-216-821-11	METAL CHIP 1K 5%	1/10W (GZR9D)
Q483	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R440	1-216-837-11	METAL CHIP 22K 5%	1/10W (GZR9D)
Q484	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R441	1-216-839-11	METAL CHIP 33K 5%	1/10W (GZR9D)
Q485	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF		R445	1-216-815-11	METAL CHIP 330 5%	1/10W
Q486	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R446	1-216-845-11	METAL CHIP 100K 5%	1/10W
Q487	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R447	1-216-836-11	METAL CHIP 18K 5%	1/10W
Q488	8-729-036-89	TRANSISTOR KTC3198GR-AT		R448	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q489	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R449	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q490	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF (GZR9D)		R450	1-216-797-11	METAL CHIP 10 5%	1/10W
				R451	1-216-797-11	METAL CHIP 10 5%	1/10W
		< RESISTOR >					
R401	1-216-845-11	METAL CHIP 100K 5%	1/10W	R452	1-216-797-11	METAL CHIP 10 5%	1/10W
R402	1-216-837-11	METAL CHIP 22K 5%	1/10W	R453	1-216-797-11	METAL CHIP 10 5%	1/10W
R403	1-216-841-11	METAL CHIP 47K 5%	1/10W	R454	1-216-797-11	METAL CHIP 10 5%	1/10W
R404	1-216-821-11	METAL CHIP 1K 5%	1/10W	R455	1-216-797-11	METAL CHIP 10 5%	1/10W
R405	1-216-821-11	METAL CHIP 1K 5%	1/10W	R456	1-216-797-11	METAL CHIP 10 5%	1/10W
R406	1-216-833-11	METAL CHIP 10K 5%	1/10W	R457	1-216-797-11	METAL CHIP 10 5%	1/10W
R407	1-216-837-11	METAL CHIP 22K 5%	1/10W	R458	1-216-797-11	METAL CHIP 10 5%	1/10W (GZR9D)
R408	1-216-839-11	METAL CHIP 33K 5%	1/10W	R459	1-216-797-11	METAL CHIP 10 5%	1/10W (GZR9D)
R409	1-216-821-11	METAL CHIP 1K 5%	1/10W	R460	1-216-797-11	METAL CHIP 10 5%	1/10W (GZR9D)
R410	1-216-845-11	METAL CHIP 100K 5%	1/10W				
R411	1-216-837-11	METAL CHIP 22K 5%	1/10W				
△ R412	1-220-893-11	METAL 0.22 10%	5W F				
R413	1-216-842-11	METAL CHIP 56K 5%	1/10W				
R414	1-216-842-11	METAL CHIP 56K 5%	1/10W				
R415	1-216-837-11	METAL CHIP 22K 5%	1/10W				
R416	1-216-821-11	METAL CHIP 1K 5%	1/10W				
R417	1-216-845-11	METAL CHIP 100K 5%	1/10W				

HCD-GZR7D/GZR8D/GZR9D

Ver. 1.1

AMP FR & SW **DMB18**

Ref. No.	Part No.	Description	Quantity	Lot %	Remark
R461	1-216-797-11	METAL CHIP	10	5%	1/10W (GZR9D)
R462	1-216-833-11	METAL CHIP	10K	5%	1/10W (GZR9D)
R463	1-216-833-11	METAL CHIP	10K	5%	1/10W (GZR9D)
R464	1-216-809-11	METAL CHIP	100	5%	1/10W (GZR9D)
R465	1-216-810-11	METAL CHIP	120	5%	1/10W (GZR9D)
R466	1-216-809-11	METAL CHIP	100	5%	1/10W (GZR9D)
△ R467	1-215-871-11	METAL OXIDE	2.2K	5%	1W F
△ R468	1-215-871-11	METAL OXIDE	2.2K	5%	1W F
R469	1-216-810-11	METAL CHIP	120	5%	1/10W (GZR9D)
R470	1-216-810-11	METAL CHIP	120	5%	1/10W (GZR8D/GZR9D)
R470	1-216-812-11	METAL CHIP	180	5%	1/10W (GZR7D)
R471	1-216-809-11	METAL CHIP	100	5%	1/10W (GZR8D/GZR9D)
R471	1-216-812-11	METAL CHIP	180	5%	1/10W (GZR7D)
R472	1-216-810-11	METAL CHIP	120	5%	1/10W (GZR8D/GZR9D)
R472	1-216-812-11	METAL CHIP	180	5%	1/10W (GZR7D)
R473	1-216-809-11	METAL CHIP	100	5%	1/10W (GZR8D/GZR9D)
R473	1-216-812-11	METAL CHIP	180	5%	1/10W (GZR7D)
R474	1-216-841-11	METAL CHIP	47K	5%	1/10W (GZR9D)
R475	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R476	1-216-845-11	METAL CHIP	100K	5%	1/10W
R477	1-216-845-11	METAL CHIP	100K	5%	1/10W
△ R490	1-246-163-61	FUSIBLE	100	5%	1/4W F
R491	1-216-837-11	METAL CHIP	22K	5%	1/10W
R492	1-216-837-11	METAL CHIP	22K	5%	1/10W
R493	1-216-837-11	METAL CHIP	22K	5%	1/10W
R494	1-216-837-11	METAL CHIP	22K	5%	1/10W
△ R495	1-246-155-61	FUSIBLE	1	5%	1/4W F
△ R496	1-246-163-61	FUSIBLE	100	5%	1/4W F
R497	1-216-842-11	METAL CHIP	56K	5%	1/10W
R499	1-216-841-11	METAL CHIP	47K	5%	1/10W
		< RELAY >			
RY441	1-755-308-21	RELAY			
RY442	1-755-308-21	RELAY (GZR9D)			
		< THERMISTOR >			
TH441	1-807-796-11	THERMISTOR			

Ref. No.	Part No.	Description	Quantity	Lot %	Remark
	A-1486-620-A	DMB18 BOARD, COMPLETE (for SERVICE)			(GZR7D:E3,E15)
	A-1486-621-A	DMB18 BOARD, COMPLETE (for SERVICE)			(GZR7D:RU)
	A-1486-622-A	DMB18 BOARD, COMPLETE (for SERVICE)			(GZR7D:E12)
	A-1486-623-A	DMB18 BOARD, COMPLETE (for SERVICE)			(GZR7D:PH,SP,TH)
	A-1486-624-A	DMB18 BOARD, COMPLETE (for SERVICE)			(GZR8D:E3,E15)
	A-1486-626-A	DMB18 BOARD, COMPLETE (for SERVICE)			(GZR8D:E12)
	A-1486-627-A	DMB18 BOARD, COMPLETE (for SERVICE)			(GZR8D:PH,SP,TH)
	A-1486-628-A	DMB18 BOARD, COMPLETE (for SERVICE)			(GZR9D:E3,E15)
	A-1486-629-A	DMB18 BOARD, COMPLETE (for SERVICE)			(GZR9D:RU)
	A-1486-631-A	DMB18 BOARD, COMPLETE (for SERVICE)			(GZR9D:E2,AR)
	A-1486-632-A	DMB18 BOARD, COMPLETE (for SERVICE)			(GZR9D:PH,SP)
	A-1546-305-A	DMB18 BOARD, COMPLETE (for SERVICE)			(GZR9D:AUS)
	A-1551-519-A	DMB18 BOARD, COMPLETE (for SERVICE)			(GZR7D:EA)
	A-1551-520-A	DMB18 BOARD, COMPLETE (for SERVICE)			(GZR8D:EA)
	A-1551-521-A	DMB18 BOARD, COMPLETE (for SERVICE)			(GZR9D:EA)

	4-106-844-01	SHEET (DMB), COPPER LEAF			
	4-231-099-41	SHEET, RADIATION			
		< CAPACITOR >			
C101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C102	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C105	1-126-947-11	ELECT	47uF	20%	35V
C106	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C108	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C111	1-104-658-11	ELECT	100uF	20%	10V
C112	1-126-947-11	ELECT	47uF	20%	35V
C113	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C115	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C117	1-124-589-11	ELECT	47uF	20%	16V
C118	1-124-589-11	ELECT	47uF	20%	16V
C119	1-124-589-11	ELECT	47uF	20%	16V
C120	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C121	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C122	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C123	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C124	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C127	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C129	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C135	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C136	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C137	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C215	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C138	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C217	1-126-947-11	ELECT 47uF 20%	35V
C139	1-162-919-11	CERAMIC CHIP 22PF 5%	50V	C218	1-126-964-11	ELECT 10uF 20%	50V
C140	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C219	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C144	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C220	1-126-964-11	ELECT 10uF 20%	50V
C145	1-126-964-11	ELECT 10uF 20%	50V	C221	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C146	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C222	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C147	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V	C224	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C148	1-165-176-11	CERAMIC CHIP 0.047uF 10%	16V	C233	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
C149	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C402	1-124-589-11	ELECT 47uF 20%	16V
C151	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C403	1-124-589-11	ELECT 47uF 20%	16V
C152	1-162-916-11	CERAMIC CHIP 12PF 5%	50V	C501	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C153	1-162-917-11	CERAMIC CHIP 15PF 5%	50V	C502	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V
C154	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C503	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V
C155	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C505	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V
C156	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C506	1-104-658-11	ELECT 100uF 20%	10V
C158	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C507	1-104-658-11	ELECT 100uF 20%	10V
C159	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C508	1-126-964-11	ELECT 10uF 20%	50V
C160	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C1100	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C161	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C1108	1-127-760-11	CERAMIC CHIP 4.7uF 10%	6.3V
C162	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C1109	1-104-658-11	ELECT 100uF 20%	10V
C163	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C1110	1-104-658-11	ELECT 100uF 20%	10V
C164	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C1114	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C165	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C1115	1-165-989-11	CERAMIC CHIP 10uF 10%	6.3V
C167	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C1116	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C168	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V	C1117	1-165-989-11	CERAMIC CHIP 10uF 10%	6.3V
C169	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C1118	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C170	1-162-965-11	CERAMIC CHIP 0.0015uF 10%	50V	C1119	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C171	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C1130	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C172	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C1161	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C174	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C1502	1-164-172-11	CERAMIC CHIP 0.0056uF 10%	25V
C175	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C1503	1-127-760-11	CERAMIC CHIP 4.7uF 10%	6.3V
C176	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C3602	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C177	1-126-947-11	ELECT 47uF 20%	35V	C3603	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C179	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C3605	1-126-947-11	ELECT 47uF 20%	35V
C180	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C3606	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C181	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C3607	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C182	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V	C3608	1-126-964-11	ELECT 10uF 20%	50V
C183	1-128-934-11	CERAMIC CHIP 0.33uF 20%	10V	C3609	1-126-964-11	ELECT 10uF 20%	50V
C184	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C3611	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C186	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V	C3621	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C187	1-126-947-11	ELECT 47uF 20%	35V	C3719	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C190	1-124-589-11	ELECT 47uF 20%	16V	C3729	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C191	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C3739	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C192	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C3749	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V (GZR8D/GZR9D)
C193	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V				(GZR8D/GZR9D)
C195	1-127-715-11	CERAMIC CHIP 0.22uF 10%	16V	C3759	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V (GZR8D/GZR9D)
C197	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V				(GZR8D/GZR9D)
C198	1-165-908-11	CERAMIC CHIP 1uF 10%	10V	C3769	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V (GZR8D/GZR9D)
C199	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V				(GZR8D/GZR9D)
C203	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C3779	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C205	1-164-230-11	CERAMIC CHIP 220PF 5%	50V	C3789	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C206	1-164-230-11	CERAMIC CHIP 220PF 5%	50V				< CONNECTOR >
C208	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	CN101	1-815-763-32	CONNECTOR, FFC/FPC 24P	
C209	1-164-677-11	CERAMIC CHIP 0.033uF 10%	16V	* CN105	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P	
C210	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	CN110	1-779-283-11	CONNECTOR, FFC (LIF(NON-ZIF)) 15P	
C211	1-164-677-11	CERAMIC CHIP 0.033uF 10%	16V	CN111	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P	
C212	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	* CN201	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P	
C213	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	CN302	1-779-291-11	CONNECTOR, FFC (LIF(NON-ZIF)) 23P (GZR7D)	
C214	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V				

HCD-GZR7D/GZR8D/GZR9D

Ver. 1.1

DMB18

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
CN303	1-779-552-21	CONNECTOR, FFC (LIF(NON-ZIF)) 15P				< IC >	
CN304	1-779-289-11	CONNECTOR, FFC (LIF(NON-ZIF)) 21P					
			(GZR8D/GZR9D)	IC101	6-808-336-01	IC ES29LV320EB70TG-CBA1-0802CE	(GZR7D:E3,E12,E15,EA,RU)
CN401	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P		IC101	6-808-337-01	IC ES29LV320EB70TG-CBA1-0802GA	(GZR7D:PH,SP,TH)
		< DIODE >		IC101	6-808-338-01	IC ES29LV320EB70TG-CBA2-0802UC	(GZR9D:E2,AR)
D1101	8-719-083-57	DIODE UDZSNPTE-173.6B (EXCEPT EA,RU)		IC101	6-808-339-01	IC ES29LV320EB70TG-CBA2-0802CE	(GZR8D:E3,E12,E15,EA/GZR9D:E3,E15,EA,RU,AUS)
D1102	8-719-083-57	DIODE UDZSNPTE-173.6B (EXCEPT EA,RU)		IC101	6-808-340-01	IC ES29LV320EB70TG-CBA2-0802GA	(GZR8D:PH,SP,TH/GZR9D:PH,SP)
D1105	8-719-109-69	DIODE RD3.6ESB2 (EA,RU)		IC102	6-711-269-01	IC CXD9894R	
D1106	8-719-109-69	DIODE RD3.6ESB2 (EA,RU)		IC103	(Not supplied)	IC S-24CS64A01-J8T1G	
D1107	8-719-058-24	DIODE RB501V-40TE-17 (EA,RU)		IC104	(Not supplied)	IC A2V64S40CTP-G6	
D1108	8-719-058-24	DIODE RB501V-40TE-17 (EA,RU)		IC105	6-702-302-01	IC TK11133CSCL-G	
D3501	6-501-817-01	DIODE MA2J1110GLSO		IC107	6-702-302-01	IC TK11133CSCL-G	
D3502	6-501-817-01	DIODE MA2J1110GLSO		IC110	6-707-739-01	IC MM1661JTRE	
D3601	6-501-817-01	DIODE MA2J1110GLSO		IC201	6-704-524-01	IC FAN8036L	
D3602	6-501-817-01	DIODE MA2J1110GLSO		IC3601	6-710-840-01	IC AK5358AET-E2	
D3603	6-501-713-01	DIODE MAZ8033G0LS0		IC4602	6-712-659-01	IC AK4359VF-E2	
		< FERRITE BEAD >				< COIL >	
FB106	1-469-324-21	FERRITE, EMI (SMD) (2012)		L3602	1-469-555-21	INDUCTOR 10uH	
FB107	1-469-324-21	FERRITE, EMI (SMD) (2012)				< TRANSISTOR >	
FB108	1-469-324-21	FERRITE, EMI (SMD) (2012)		Q101	6-550-008-01	FET UM6K1N-TN	
FB109	1-469-324-21	FERRITE, EMI (SMD) (2012)		Q102	6-550-653-01	TRANSISTOR QST8TR	
FB111	1-469-670-21	FERRITE, EMI (SMD) (2012)		Q103	8-729-027-52	TRANSISTOR DTC124EKA-T146	
FB112	1-469-670-21	FERRITE, EMI (SMD) (2012)				< RESISTOR >	
FB115	1-469-670-21	FERRITE, EMI (SMD) (2012)		R101	1-216-809-11	METAL CHIP 100 5% 1/10W	
FB116	1-469-670-21	FERRITE, EMI (SMD) (2012)		R102	1-216-864-11	SHORT CHIP 0	
FB117	1-469-670-21	FERRITE, EMI (SMD) (2012)		R103	1-218-864-11	METAL CHIP 5.1K 0.5% 1/10W	
FB118	1-469-670-21	FERRITE, EMI (SMD) (2012)		R105	1-216-833-11	METAL CHIP 10K 5% 1/10W	
FB119	1-469-670-21	FERRITE, EMI (SMD) (2012)		R106	1-216-833-11	METAL CHIP 10K 5% 1/10W	
FB401	1-469-324-21	FERRITE, EMI (SMD) (2012)		R107	1-216-833-11	METAL CHIP 10K 5% 1/10W	
FB402	1-469-324-21	FERRITE, EMI (SMD) (2012)		R108	1-216-857-11	METAL CHIP 1M 5% 1/10W	
FB403	1-469-324-21	FERRITE, EMI (SMD) (2012)		R109	1-216-864-11	SHORT CHIP 0	
FB404	1-469-324-21	FERRITE, EMI (SMD) (2012)		R110	1-216-841-11	METAL CHIP 47K 5% 1/10W	
FB405	1-469-324-21	FERRITE, EMI (SMD) (2012)		R111	1-216-809-11	METAL CHIP 100 5% 1/10W	
FB406	1-469-324-21	FERRITE, EMI (SMD) (2012)		R112	1-211-977-11	METAL CHIP 22 0.5% 1/10W	
FB1101	1-469-324-21	FERRITE, EMI (SMD) (2012)		R113	1-211-977-11	METAL CHIP 22 0.5% 1/10W	
FB1103	1-469-324-21	FERRITE, EMI (SMD) (2012)		R114	1-216-845-11	METAL CHIP 100K 5% 1/10W	
FB1120	1-469-118-21	FERRITE, EMI (SMD) (1608)		R115	1-211-977-11	METAL CHIP 22 0.5% 1/10W	
FB1121	1-469-118-21	FERRITE, EMI (SMD) (1608)		R116	1-216-821-11	METAL CHIP 1K 5% 1/10W	
FB1122	1-469-118-21	FERRITE, EMI (SMD) (1608)		R117	1-216-841-11	METAL CHIP 47K 5% 1/10W	
FB1123	1-469-118-21	FERRITE, EMI (SMD) (1608)		R118	1-216-801-11	METAL CHIP 22 5% 1/10W	
FB1124	1-469-118-21	FERRITE, EMI (SMD) (1608)		R120	1-216-801-11	METAL CHIP 22 5% 1/10W	
FB1125	1-469-118-21	FERRITE, EMI (SMD) (1608)		R121	1-216-801-11	METAL CHIP 22 5% 1/10W	
FB1138	1-469-118-21	FERRITE, EMI (SMD) (1608)		R122	1-216-864-11	SHORT CHIP 0	
FB1139	1-469-118-21	FERRITE, EMI (SMD) (1608)		R124	1-216-841-11	METAL CHIP 47K 5% 1/10W	
FB1140	1-469-118-21	FERRITE, EMI (SMD) (1608)		R125	1-216-805-11	METAL CHIP 47 5% 1/10W	
FB1141	1-469-118-21	FERRITE, EMI (SMD) (1608)		R132	1-216-845-11	METAL CHIP 100K 5% 1/10W	
FB1142	1-469-118-21	FERRITE, EMI (SMD) (1608)		R133	1-216-864-11	SHORT CHIP 0	
FB1143	1-469-118-21	FERRITE, EMI (SMD) (1608)		R134	1-216-809-11	METAL CHIP 100 5% 1/10W	
FB1169	1-469-118-21	FERRITE, EMI (SMD) (1608)		R135	1-216-821-11	METAL CHIP 1K 5% 1/10W	
FB1170	1-469-118-21	FERRITE, EMI (SMD) (1608)		R136	1-216-835-11	METAL CHIP 15K 5% 1/10W	
FB1171	1-469-118-21	FERRITE, EMI (SMD) (1608)		R137	1-216-809-11	METAL CHIP 100 5% 1/10W	
FB1172	1-469-118-21	FERRITE, EMI (SMD) (1608)		R138	1-216-809-11	METAL CHIP 100 5% 1/10W	
FB3501	1-469-118-21	FERRITE, EMI (SMD) (1608) (GZR7D)		R139	1-216-864-11	SHORT CHIP 0	
		< FILTER >					
FL401	1-234-177-21	FILTER, CHIP EMI					
FL402	1-233-893-21	FILTER, CHIP EMI					
FL403	1-234-177-21	FILTER, CHIP EMI					

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R140	1-216-821-11	METAL CHIP	1K	5%	1/10W	R508	1-216-809-11	METAL CHIP	100	5%	1/10W
R141	1-216-855-11	METAL CHIP	680K	5%	1/10W						(GZR8D/GZR9D)
R142	1-216-845-11	METAL CHIP	100K	5%	1/10W	R509	1-216-809-11	METAL CHIP	100	5%	1/10W
R146	1-216-805-11	METAL CHIP	47	5%	1/10W						(GZR8D/GZR9D)
R151	1-216-833-11	METAL CHIP	10K	5%	1/10W	R510	1-216-809-11	METAL CHIP	100	5%	1/10W
											(GZR8D/GZR9D)
R152	1-216-864-11	SHORT CHIP	0			R511	1-216-809-11	METAL CHIP	100	5%	1/10W
R153	1-216-864-11	SHORT CHIP	0			R512	1-216-809-11	METAL CHIP	100	5%	1/10W
R154	1-216-864-11	SHORT CHIP	0								
R155	1-216-864-11	SHORT CHIP	0			R514	1-216-809-11	METAL CHIP	100	5%	1/10W
R156	1-216-809-11	METAL CHIP	100	5%	1/10W	R515	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
						R516	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R159	1-216-805-11	METAL CHIP	47	5%	1/10W	R519	1-216-864-11	SHORT CHIP	0		
R160	1-216-805-11	METAL CHIP	47	5%	1/10W	R521	1-216-833-11	METAL CHIP	10K	5%	1/10W
R161	1-216-805-11	METAL CHIP	47	5%	1/10W						
R171	1-216-809-11	METAL CHIP	100	5%	1/10W	R522	1-216-833-11	METAL CHIP	10K	5%	1/10W
R175	1-216-864-11	SHORT CHIP	0			R523	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R524	1-216-833-11	METAL CHIP	10K	5%	1/10W
R183	1-216-805-11	METAL CHIP	47	5%	1/10W	R532	1-216-864-11	SHORT CHIP	0		
R184	1-216-805-11	METAL CHIP	47	5%	1/10W	R536	1-216-864-11	SHORT CHIP	0		
R185	1-216-805-11	METAL CHIP	47	5%	1/10W						
R189	1-218-827-11	METAL CHIP	150	0.5%	1/10W	R730	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R190	1-218-827-11	METAL CHIP	150	0.5%	1/10W	R781	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R782	1-216-833-11	METAL CHIP	10K	5%	1/10W
R191	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1101	1-218-841-11	METAL CHIP	560	0.5%	1/10W
R192	1-218-827-11	METAL CHIP	150	0.5%	1/10W	R1102	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R193	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R195	1-218-827-11	METAL CHIP	150	0.5%	1/10W	R1103	1-216-809-11	METAL CHIP	100	5%	1/10W
R197	1-218-827-11	METAL CHIP	150	0.5%	1/10W	R1104	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
						R1108	1-216-864-11	SHORT CHIP	0		
R198	1-216-809-11	METAL CHIP	100	5%	1/10W	R1110	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R204	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	R1114	1-216-801-11	METAL CHIP	22	5%	1/10W
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R206	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1115	1-216-864-11	SHORT CHIP	0		
R207	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	R1116	1-216-864-11	SHORT CHIP	0		
						R1117	1-216-833-11	METAL CHIP	10K	5%	1/10W
R208	1-216-839-11	METAL CHIP	33K	5%	1/10W	R1129	1-216-845-11	METAL CHIP	100K	5%	1/10W
R209	1-216-839-11	METAL CHIP	33K	5%	1/10W	R1133	1-216-864-11	SHORT CHIP	0		
R210	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R212	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1134	1-216-864-11	SHORT CHIP	0		
R213	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	R1135	1-216-864-11	SHORT CHIP	0		
						R1145	1-216-864-11	SHORT CHIP	0		
R214	1-216-835-11	METAL CHIP	15K	5%	1/10W	R1150	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R215	1-216-834-11	METAL CHIP	12K	5%	1/10W	R1151	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R216	1-216-834-11	METAL CHIP	12K	5%	1/10W						
R219	1-216-838-11	METAL CHIP	27K	5%	1/10W	R1152	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R220	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1154	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R1155	1-216-833-11	METAL CHIP	10K	5%	1/10W
R221	1-218-889-11	METAL CHIP	56K	0.5%	1/10W	R1156	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R223	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	R1157	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R224	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R225	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	R1163	1-216-864-11	SHORT CHIP	0		
R226	1-218-889-11	METAL CHIP	56K	0.5%	1/10W	R1164	1-216-864-11	SHORT CHIP	0		
						R1167	1-216-864-11	SHORT CHIP	0		
R230	1-218-893-11	METAL CHIP	82K	0.5%	1/10W	R1168	1-216-813-11	METAL CHIP	220	5%	1/10W
R231	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	R1173	1-216-864-11	SHORT CHIP	0		
R232	1-218-877-11	METAL CHIP	18K	0.5%	1/10W						
R233	1-218-883-11	METAL CHIP	33K	0.5%	1/10W	R1176	1-216-864-11	SHORT CHIP	0		
R234	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1177	1-216-864-11	SHORT CHIP	0		
						R1178	1-216-821-11	METAL CHIP	1K	5%	1/10W
R246	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R1179	1-216-809-11	METAL CHIP	100	5%	1/10W
R247	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1180	1-216-809-11	METAL CHIP	100	5%	1/10W
R321	1-216-864-11	SHORT CHIP	0								
R407	1-216-295-11	SHORT CHIP	0			R1182	1-216-864-11	SHORT CHIP	0		
R408	1-216-295-11	SHORT CHIP	0			R1184	1-216-809-11	METAL CHIP	100	5%	1/10W
						R1185	1-216-809-11	METAL CHIP	100	5%	1/10W
R501	1-216-864-11	SHORT CHIP	0			R1187	1-216-805-11	METAL CHIP	47	5%	1/10W
R503	1-216-864-11	SHORT CHIP	0								(GZR7D)
R505	1-216-809-11	METAL CHIP	100	5%	1/10W	R1188	1-216-864-11	SHORT CHIP	0		
R506	1-216-809-11	METAL CHIP	100	5%	1/10W						
R507	1-216-809-11	METAL CHIP	100	5%	1/10W	R1189	1-216-833-11	METAL CHIP	10K	5%	1/10W
					(GZR8D/GZR9D)	R1190	1-216-833-11	METAL CHIP	10K	5%	1/10W

HCD-GZR7D/GZR8D/GZR9D

Ver. 1.1

DMB18 **DMPort** **DRIVER**

Ref. No.	Part No.	Description	Remark
R1191	1-216-833-11	METAL CHIP 10K 5%	1/10W
R1192	1-216-833-11	METAL CHIP 10K 5%	1/10W
R1193	1-216-833-11	METAL CHIP 10K 5%	1/10W
R1194	1-216-833-11	METAL CHIP 10K 5%	1/10W
R1196	1-216-864-11	SHORT CHIP 0	
R1197	1-216-833-11	METAL CHIP 10K 5%	1/10W
R1198	1-216-809-11	METAL CHIP 100 5%	1/10W
R1200	1-216-833-11	METAL CHIP 10K 5%	1/10W
R2504	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R3504	1-216-809-11	METAL CHIP 100 5%	1/10W
R3505	1-216-809-11	METAL CHIP 100 5%	1/10W
R3601	1-216-809-11	METAL CHIP 100 5%	1/10W
R3602	1-216-809-11	METAL CHIP 100 5%	1/10W
R3603	1-216-809-11	METAL CHIP 100 5%	1/10W
R3605	1-216-805-11	METAL CHIP 47 5%	1/10W
R3606	1-216-864-11	SHORT CHIP 0	
R3611	1-216-809-11	METAL CHIP 100 5%	1/10W
R3612	1-216-864-11	SHORT CHIP 0	
R3613	1-216-809-11	METAL CHIP 100 5%	1/10W
R3621	1-216-809-11	METAL CHIP 100 5%	1/10W
R4403	1-216-864-11	SHORT CHIP 0	
R4404	1-216-864-11	SHORT CHIP 0	
R4423	1-216-864-11	SHORT CHIP 0 (GZR8D/GZR9D)	
R4424	1-216-864-11	SHORT CHIP 0 (GZR8D/GZR9D)	
R4443	1-216-864-11	SHORT CHIP 0 (GZR8D/GZR9D)	
R4444	1-216-864-11	SHORT CHIP 0 (GZR8D/GZR9D)	
R4463	1-216-864-11	SHORT CHIP 0	
R4464	1-216-864-11	SHORT CHIP 0	
R4701	1-216-864-11	SHORT CHIP 0	
R4702	1-216-864-11	SHORT CHIP 0	
R4703	1-216-864-11	SHORT CHIP 0	
R4704	1-216-864-11	SHORT CHIP 0	
R4705	1-216-864-11	SHORT CHIP 0	
R4706	1-216-864-11	SHORT CHIP 0	
R4804	1-216-864-11	SHORT CHIP 0	
R4806	1-216-805-11	METAL CHIP 47 5%	1/10W
R4807	1-216-864-11	SHORT CHIP 0	
R5002	1-216-864-11	SHORT CHIP 0 (GZR7D:E3,E12,E15,EA,RU)	
R5003	1-216-864-11	SHORT CHIP 0 (GZR8D:E3,E12,E15,EA/ GZR9D:E3,E15,EA,RU,AUS)	
R5012	1-216-864-11	SHORT CHIP 0 (GZR7D:PH,SP,TH)	
R5013	1-216-864-11	SHORT CHIP 0 (GZR8D:PH,SP,TH/ GZR9D:PH,SP)	
R5023	1-216-864-11	SHORT CHIP 0 (E2,AR)	
R5031	1-216-864-11	SHORT CHIP 0 (RU)	
< NETWORK RESISTOR >			
RB103	1-234-400-21	CONDUCTOR, NETWORK 0X4 (1005)	
RB104	1-234-400-21	CONDUCTOR, NETWORK 0X4 (1005)	
RB105	1-234-371-21	RES, NETWORK 47X4 (1005)	
RB106	1-234-371-21	RES, NETWORK 47X4 (1005)	
RB107	1-234-400-21	CONDUCTOR, NETWORK 0X4 (1005)	
RB108	1-234-400-21	CONDUCTOR, NETWORK 0X4 (1005)	
RB109	1-234-370-21	RES, NETWORK 22X4 (1005)	
RB110	1-234-370-21	RES, NETWORK 22X4 (1005)	
RB111	1-234-400-21	CONDUCTOR, NETWORK 0X4 (1005)	
RB112	1-234-370-21	RES, NETWORK 22X4 (1005)	
RB113	1-234-370-21	RES, NETWORK 22X4 (1005)	
RB114	1-234-400-21	CONDUCTOR, NETWORK 0X4 (1005)	
RB115	1-234-400-21	CONDUCTOR, NETWORK 0X4 (1005)	
RB121	1-234-378-21	RES, NETWORK 10KX4 (1005)	

Ref. No.	Part No.	Description	Remark
< VIBRATOR >			
X101	1-813-539-11	QUARTZ CRYSTAL UNIT (27MHz)	

DMPort BOARD			

< CAPACITOR >			
C210	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C211	1-126-206-11	ELECT CHIP 100uF	20% 6.3V
C229	1-126-193-11	ELECT CHIP 1uF	20% 50V
C230	1-126-193-11	ELECT CHIP 1uF	20% 50V
C231	1-126-193-11	ELECT CHIP 1uF	20% 50V
C232	1-126-193-11	ELECT CHIP 1uF	20% 50V
C237	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C238	1-126-395-11	ELECT CHIP 22uF	20% 16V
C239	1-126-205-11	ELECT CHIP 47uF	20% 6.3V
C240	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C241	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
< CONNECTOR >			
CN201	1-784-861-51	CONNECTOR, FFC (LIF(NON-ZIF)) 9P	
CN203	1-770-469-21	PIN, CONNECTOR (PC BOARD) 2P	
CN204	1-817-615-21	CONNECTOR, SQUARE TYPE (RECE) 18P	(DMPort)
< IC >			
IC202	8-759-100-96	IC uPC4558G2	
< COIL >			
L200	1-469-555-21	INDUCTOR 10uH	
< RESISTOR >			
R203	1-218-879-11	METAL CHIP 22K	0.5% 1/10W
R204	1-216-864-11	SHORT CHIP 0	
R205	1-216-809-11	METAL CHIP 100	5% 1/10W
R206	1-216-864-11	SHORT CHIP 0	
R207	1-216-864-11	SHORT CHIP 0	
R208	1-218-879-11	METAL CHIP 22K	0.5% 1/10W
R209	1-216-845-11	METAL CHIP 100K	5% 1/10W
R214	1-218-879-11	METAL CHIP 22K	0.5% 1/10W
R215	1-218-879-11	METAL CHIP 22K	0.5% 1/10W
R224	1-216-809-11	METAL CHIP 100	5% 1/10W
R227	1-218-879-11	METAL CHIP 22K	0.5% 1/10W
R228	1-218-879-11	METAL CHIP 22K	0.5% 1/10W
R229	1-218-879-11	METAL CHIP 22K	0.5% 1/10W
R230	1-218-879-11	METAL CHIP 22K	0.5% 1/10W
R231	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R232	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
R239	1-216-864-11	SHORT CHIP 0	
R241	1-216-296-11	SHORT CHIP 0	

A-1103-756-B		DRIVER BOARD, COMPLETE	*****
< CAPACITOR >			
C715	1-126-933-11	ELECT 100uF	20% 16V
C731	1-126-964-11	ELECT 10uF	20% 50V
C735	1-164-159-21	CERAMIC 0.1uF	50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C736	1-164-159-21	CERAMIC	0.1uF	50V		KEY-LEFT BOARD	
C737	1-164-159-21	CERAMIC	0.1uF	50V		*****	
C741	1-162-306-11	CERAMIC	0.01uF	20%	16V		
C751	1-162-306-11	CERAMIC	0.01uF	20%	16V		
C752	1-164-159-21	CERAMIC	0.1uF	50V		< DIODE >	
		< CONNECTOR >					
CN701	1-784-735-11	CONNECTOR, FFC 13P					
CN702	1-784-766-11	CONNECTOR, FFC 5P					
* CN703	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P					
CN704	1-785-328-11	PIN, CONNECTOR (LIGHT ANGLE) 2P					
		< DIODE >					
D701	8-719-921-42	DIODE MTZJ-5.1A					
D711	8-719-109-69	DIODE RD3.6ESB2					
		< IC >					
IC701	8-759-598-69	IC BA6956AN					
IC712	8-759-598-69	IC BA6956AN					
		< TRANSISTOR >					
Q731	8-729-029-66	TRANSISTOR DTC114ESA					
		< RESISTOR >					
R701	1-249-413-11	CARBON	470	5%	1/4W		
R702	1-247-807-31	CARBON	100	5%	1/4W		
R711	1-249-417-11	CARBON	1K	5%	1/4W		
R712	1-249-425-11	CARBON	4.7K	5%	1/4W		
R713	1-249-433-11	CARBON	22K	5%	1/4W		
R721	1-249-425-11	CARBON	4.7K	5%	1/4W		
R722	1-249-425-11	CARBON	4.7K	5%	1/4W		
R723	1-249-425-11	CARBON	4.7K	5%	1/4W		
R731	1-247-807-31	CARBON	100	5%	1/4W		
R732	1-249-429-11	CARBON	10K	5%	1/4W		
R733	1-249-417-11	CARBON	1K	5%	1/4W		
R734	1-249-430-11	CARBON	12K	5%	1/4W		
R736	1-249-412-11	CARBON	390	5%	1/4W		
R751	1-249-425-11	CARBON	4.7K	5%	1/4W		

		HEADPHONE BOARD					

		< CAPACITOR >					
C822	1-164-156-11	CERAMIC CHIP	0.1uF	25V			
C823	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		
C824	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		
		< CABLE HOLDER >					
CN801	1-820-830-11	HOLDER, CABLE 6P					
		< JACK >					
J803	1-794-702-11	JACK, HEADPHONE (PHONES)					
		< RESISTOR >					
R821	1-216-805-11	METAL CHIP	47	5%	1/10W		
R822	1-216-805-11	METAL CHIP	47	5%	1/10W		
R823	1-216-805-11	METAL CHIP	47	5%	1/10W		
R824	1-216-805-11	METAL CHIP	47	5%	1/10W		

		KEY-LEFT BOARD					

D611	6-501-483-01	LED SLR-325VCT31P (STANDBY)					
D612	8-719-060-27	LED SLR-325MCT31 (SUBWOOFER) (GZR9D)					
		< RESISTOR >					
R602	1-216-815-11	METAL CHIP	330	5%	1/10W		
R603	1-216-817-11	METAL CHIP	470	5%	1/10W		
R604	1-216-819-11	METAL CHIP	680	5%	1/10W		
R605	1-216-821-11	METAL CHIP	1K	5%	1/10W		
R606	1-216-823-11	METAL CHIP	1.5K	5%	1/10W		
R607	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		
R608	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		
R609	1-216-833-11	METAL CHIP	10K	5%	1/10W		(GZR9D)
R655	1-216-821-11	METAL CHIP	1K	5%	1/10W		
R688	1-216-821-11	METAL CHIP	1K	5%	1/10W		(GZR9D)
R698	1-216-821-11	METAL CHIP	1K	5%	1/10W		(GZR9D)
		< SWITCH >					
S602	1-771-410-21	SWITCH, TACTILE (I/O)					
S603	1-771-410-21	SWITCH, TACTILE (DVD)					
S604	1-771-410-21	SWITCH, TACTILE (USB)					
S605	1-771-410-21	SWITCH, TACTILE (TAPE A/B)					
S606	1-771-410-21	SWITCH, TACTILE (TUNER/BAND)					
S607	1-771-410-21	SWITCH, TACTILE (DMPORT)					
S608	1-771-410-21	SWITCH, TACTILE (VIDEO/SAT)					
S609	1-771-410-21	SWITCH, TACTILE (SUBWOOFER) (GZR9D)					

		KEY-RIGHT BOARD					

		< RESISTOR >					
R631	1-216-821-11	METAL CHIP	1K	5%	1/10W		
R632	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		
R633	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		
R634	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		
R635	1-216-833-11	METAL CHIP	10K	5%	1/10W		
R636	1-216-837-11	METAL CHIP	22K	5%	1/10W		
R637	1-216-841-11	METAL CHIP	47K	5%	1/10W		
		< SWITCH >					
S628	1-771-410-21	SWITCH, TACTILE (DISC SKIP/EX-CHANGE)					
S631	1-771-410-21	SWITCH, TACTILE (REC TO USB)					
S632	1-771-410-21	SWITCH, TACTILE (REC TO TAPE)					
S633	1-771-410-21	SWITCH, TACTILE (OPTIONS)					
S634	1-771-410-21	SWITCH, TACTILE (▲ OPEN/CLOSE)					
S635	1-771-410-21	SWITCH, TACTILE (DISC 1)					
S636	1-771-410-21	SWITCH, TACTILE (DISC 2)					
S637	1-771-410-21	SWITCH, TACTILE (DISC 3)					
		< CABLE HOLDER >					
WH615	1-824-027-21	HOLDER, CABLE 3P					

HCD-GZR7D/GZR8D/GZR9D

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MAIN

Ref. No.	Part No.	Description	Remark
	A-1488-027-A	MAIN BOARD, COMPLETE (GZR9D:E3,E15)	
	A-1489-658-A	MAIN BOARD, COMPLETE (GZR9D:PH,SP)	
	A-1489-660-A	MAIN BOARD, COMPLETE (GZR9D:E2,AR)	
	A-1489-662-A	MAIN BOARD, COMPLETE (GZR9D:RU)	
	A-1493-107-A	MAIN BOARD, COMPLETE (GZR8D:E3,E15)	
	A-1493-113-A	MAIN BOARD, COMPLETE (GZR8D:E12)	
	A-1493-118-A	MAIN BOARD, COMPLETE (GZR8D:PH,SP,TH)	
	A-1493-879-A	MAIN BOARD, COMPLETE (GZR7D:E3,E15)	
	A-1493-883-A	MAIN BOARD, COMPLETE (GZR7D:E12)	
	A-1493-888-A	MAIN BOARD, COMPLETE (GZR7D:PH,SP,TH)	
	A-1493-890-A	MAIN BOARD, COMPLETE (GZR7D:RU)	
	A-1545-269-A	MAIN BOARD, COMPLETE (GZR9D:AUS)	
	A-1548-114-A	MAIN BOARD, COMPLETE (GZR9D:EA)	
	A-1548-133-A	MAIN BOARD, COMPLETE (GZR8D:EA)	
	A-1548-141-A	MAIN BOARD, COMPLETE (GZR7D:EA)	

	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
		< CAPACITOR >	
C001	1-126-946-11	ELECT 6800uF	20% 25V
C002	1-104-665-11	ELECT 100uF	20% 25V
C003	1-104-665-11	ELECT 100uF	20% 25V
C004	1-126-946-11	ELECT 6800uF	20% 25V
C005	1-126-964-11	ELECT 10uF	20% 50V
C006	1-136-165-00	FILM 0.1uF	5% 50V
C007	1-136-165-00	FILM 0.1uF	5% 50V
C010	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C012	1-104-665-11	ELECT 100uF	20% 25V
C026	1-162-974-11	CERAMIC CHIP 0.01uF	50V
C027	1-162-974-11	CERAMIC CHIP 0.01uF	50V
C059	1-107-721-11	ELECT 4.7uF	20% 100V
C060	1-107-721-11	ELECT 4.7uF	20% 100V
C101	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C102	1-126-964-11	ELECT 10uF	20% 50V
C103	1-126-964-11	ELECT 10uF	20% 50V
C104	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C105	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V
C106	1-126-934-11	ELECT 220uF	20% 16V
C107	1-126-959-11	ELECT 0.47uF	20% 50V
C108	1-126-964-11	ELECT 10uF	20% 50V
C111	1-126-964-11	ELECT 10uF	20% 50V
C112	1-126-964-11	ELECT 10uF	20% 50V
C115	1-126-964-11	ELECT 10uF	20% 50V
C116	1-126-964-11	ELECT 10uF	20% 50V
C119	1-126-964-11	ELECT 10uF	20% 50V
C120	1-126-964-11	ELECT 10uF	20% 50V
C121	1-126-964-11	ELECT 10uF	20% 50V
C122	1-126-964-11	ELECT 10uF	20% 50V
C127	1-126-964-11	ELECT 10uF	20% 50V
C128	1-126-964-11	ELECT 10uF	20% 50V
C129	1-126-964-11	ELECT 10uF	20% 50V
C130	1-126-964-11	ELECT 10uF	20% 50V
C131	1-162-969-11	CERAMIC CHIP 0.0068uF	10% 25V
C132	1-162-969-11	CERAMIC CHIP 0.0068uF	10% 25V
C133	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C134	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C135	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
C136	1-164-227-11	CERAMIC CHIP 0.022uF	10% 25V
C137	1-126-964-11	ELECT 10uF	20% 50V
C138	1-126-964-11	ELECT 10uF	20% 50V

Ref. No.	Part No.	Description	Remark
C139	1-110-563-11	CERAMIC CHIP 0.068uF	10% 16V
C140	1-110-563-11	CERAMIC CHIP 0.068uF	10% 16V
C141	1-126-961-11	ELECT 2.2uF	20% 50V
C142	1-126-961-11	ELECT 2.2uF	20% 50V
C143	1-136-167-00	FILM 0.15uF	5% 50V (GZR8D/GZR9D)
C143	1-137-189-11	FILM 0.18uF	5% 50V (GZR7D)
C144	1-136-167-00	FILM 0.15uF	5% 50V (GZR8D/GZR9D)
C144	1-137-189-11	FILM 0.18uF	5% 50V (GZR7D)
C145	1-137-190-11	FILM 0.22uF	5% 50V (GZR7D)
C145	1-136-171-00	FILM 0.33uF	5% 50V (GZR8D/GZR9D)
C146	1-137-190-11	FILM 0.22uF	5% 50V (GZR7D)
C146	1-136-171-00	FILM 0.33uF	5% 50V (GZR8D/GZR9D)
C147	1-126-960-11	ELECT 1uF	20% 50V
C148	1-164-230-11	CERAMIC CHIP 220PF	5% 50V
C149	1-164-230-11	CERAMIC CHIP 220PF	5% 50V
C151	1-126-964-11	ELECT 10uF	20% 50V
C152	1-126-964-11	ELECT 10uF	20% 50V
C153	1-126-964-11	ELECT 10uF	20% 50V
C154	1-126-964-11	ELECT 10uF	20% 50V
C155	1-124-261-00	ELECT 10uF	20% 50V
C156	1-126-964-11	ELECT 10uF	20% 50V
C157	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C158	1-126-959-11	ELECT 0.47uF	20% 50V
C160	1-162-962-11	CERAMIC CHIP 470PF	10% 50V
C161	1-126-965-11	ELECT 22uF	20% 50V
C162	1-124-257-00	ELECT 2.2uF	20% 50V
C163	1-124-465-00	ELECT 0.47uF	20% 50V
C164	1-126-961-11	ELECT 2.2uF	20% 50V
C165	1-126-957-11	ELECT 0.22uF	20% 50V
C166	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C167	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C170	1-137-189-11	FILM 0.18uF	5% 50V (GZR9D)
C170	1-137-190-11	FILM 0.22uF	5% 50V (GZR7D/GZR8D)
C175	1-162-969-11	CERAMIC CHIP 0.0068uF	10% 25V
C176	1-162-969-11	CERAMIC CHIP 0.0068uF	10% 25V
C201	1-162-960-11	CERAMIC CHIP 220PF	10% 50V (GZR8D/GZR9D)
C202	1-162-960-11	CERAMIC CHIP 220PF	10% 50V (GZR8D/GZR9D)
C203	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C204	1-162-960-11	CERAMIC CHIP 220PF	10% 50V (GZR8D/GZR9D)
C205	1-126-964-11	ELECT 10uF	20% 50V
C206	1-126-964-11	ELECT 10uF	20% 50V
C207	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V (GZR8D/GZR9D)
C208	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V (GZR8D/GZR9D)
C209	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V (GZR8D/GZR9D)
C209	1-216-864-11	SHORT CHIP 0 (GZR7D)	
C210	1-162-966-11	CERAMIC CHIP 0.0022uF	10% 50V (GZR8D/GZR9D)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C210	1-216-864-11	SHORT CHIP	0 (GZR7D)	C247	1-126-964-11	ELECT	10uF 20% 50V
C211	1-126-964-11	ELECT	10uF 20% 50V (GZR8D/GZR9D)	C248	1-126-964-11	ELECT	10uF 20% 50V (GZR8D/GZR9D)
C212	1-126-964-11	ELECT	10uF 20% 50V (GZR8D/GZR9D)	C251	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V (GZR8D/GZR9D)
C215	1-130-491-00	MYLAR	0.047uF 5% 50V (GZR8D/GZR9D)	C252	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V (GZR8D/GZR9D)
C216	1-126-933-11	ELECT	100uF 20% 16V (GZR8D/GZR9D)	C253	1-126-963-11	ELECT	4.7uF 20% 50V (GZR8D/GZR9D)
C217	1-126-964-11	ELECT	10uF 20% 50V (GZR8D/GZR9D)	C254	1-126-963-11	ELECT	4.7uF 20% 50V (GZR8D/GZR9D)
C218	1-126-964-11	ELECT	10uF 20% 50V (GZR8D/GZR9D)	C255	1-126-963-11	ELECT	4.7uF 20% 50V (GZR8D/GZR9D)
C219	1-137-190-11	FILM	0.22uF 5% 50V (GZR8D/GZR9D)	C256	1-126-963-11	ELECT	4.7uF 20% 50V (GZR8D/GZR9D)
C220	1-137-190-11	FILM	0.22uF 5% 50V (GZR8D/GZR9D)	C257	1-109-953-11	ELECT	2.2uF 20% 50V
C221	1-137-190-11	FILM	0.22uF 5% 50V (GZR8D/GZR9D)	C258	1-126-933-11	ELECT	100uF 20% 16V (GZR8D/GZR9D)
C222	1-137-190-11	FILM	0.22uF 5% 50V (GZR8D/GZR9D)	C260	1-162-960-11	CERAMIC CHIP	220PF 10% 50V (GZR8D/GZR9D)
C223	1-126-964-11	ELECT	10uF 20% 50V (GZR8D/GZR9D)	C261	1-126-933-11	ELECT	100uF 20% 16V (GZR8D/GZR9D)
C224	1-126-964-11	ELECT	10uF 20% 50V (GZR8D/GZR9D)	C278	1-109-953-11	ELECT	2.2uF 20% 50V
C225	1-126-964-11	ELECT	10uF 20% 50V (GZR8D/GZR9D)	C301	1-162-960-11	CERAMIC CHIP	220PF 10% 50V
C226	1-137-190-11	FILM	0.22uF 5% 50V (GZR8D/GZR9D)	C302	1-162-960-11	CERAMIC CHIP	220PF 10% 50V
C227	1-126-964-11	ELECT	10uF 20% 50V (GZR9D)	C305	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V (GZR7D:RU)
C228	1-130-495-00	MYLAR	0.1uF 5% 50V (GZR8D/GZR9D)	C306	1-164-156-11	CERAMIC CHIP	0.1uF 25V (GZR7D/GZR8D)
C229	1-126-960-11	ELECT	1uF 20% 50V (GZR8D/GZR9D)	C307	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V (GZR7D)
C230	1-162-927-11	CERAMIC CHIP	100PF 5% 50V (GZR8D/GZR9D)	C308	1-126-965-11	ELECT	22uF 20% 50V (GZR7D)
C231	1-104-665-11	ELECT	100uF 20% 25V	C309	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V (EXCEPT RU,AUS)
C232	1-162-927-11	CERAMIC CHIP	100PF 5% 50V (GZR8D/GZR9D)	C310	1-104-662-11	ELECT	22uF 20% 25V (EXCEPT RU,AUS)
C233	1-100-597-11	CERAMIC CHIP	0.1uF 10% 25V (GZR8D/GZR9D)	C311	1-126-964-11	ELECT	10uF 20% 50V (EXCEPT RU,AUS)
C234	1-126-964-11	ELECT	10uF 20% 50V (GZR8D/GZR9D)	C312	1-125-891-11	CERAMIC CHIP	0.47uF 10% 10V (EXCEPT RU,AUS)
C235	1-126-964-11	ELECT	10uF 20% 50V (GZR8D/GZR9D)	C314	1-104-666-11	ELECT	220uF 20% 25V (EXCEPT RU,AUS)
C236	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V (GZR8D/GZR9D)	C315	1-127-715-11	CERAMIC CHIP	0.22uF 10% 16V (EXCEPT RU,AUS)
C237	1-126-964-11	ELECT	10uF 20% 50V (GZR8D/GZR9D)	C316	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V (GZR7D/GZR8D)
C238	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V (GZR8D/GZR9D)	C317	1-162-919-11	CERAMIC CHIP	22PF 5% 50V (GZR7D/GZR8D)
C239	1-126-964-11	ELECT	10uF 20% 50V (GZR8D/GZR9D)	C318	1-162-923-11	CERAMIC CHIP	47PF 5% 50V (GZR7D/GZR8D)
C241	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V (GZR8D/GZR9D)	C319	1-126-947-11	ELECT	47uF 20% 35V (GZR7D/GZR8D)
C242	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V (GZR8D/GZR9D)	C320	1-124-261-00	ELECT	10uF 20% 25V (GZR7D/GZR8D)
C243	1-126-964-11	ELECT	10uF 20% 50V (GZR8D/GZR9D)	C321	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C244	1-126-964-11	ELECT	10uF 20% 50V (GZR8D/GZR9D)	C322	1-126-923-11	ELECT	220uF 20% 10V (GZR7D/GZR8D)
C245	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V (GZR8D/GZR9D)	C407	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C246	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V (GZR8D/GZR9D)	C408	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
				C409	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
				C410	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
				C411	1-164-156-11	CERAMIC CHIP	0.1uF 25V
				C412	1-164-156-11	CERAMIC CHIP	0.1uF 25V

HCD-GZR7D/GZR8D/GZR9D

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MAIN

Ref. No.	Part No.	Description	Remark
C413	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C414	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C423	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C424	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C425	1-162-913-11	CERAMIC CHIP 8PF 0.5PF	50V
C426	1-162-912-11	CERAMIC CHIP 7PF 0.5PF	50V
C427	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V
C428	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C430	1-126-916-11	ELECT 1000uF 20%	6.3V
C431	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C501	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C502	1-104-665-11	ELECT 100uF 20%	25V
C503	1-104-665-11	ELECT 100uF 20%	25V
C504	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C505	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C508	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C551	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C552	1-126-964-11	ELECT 10uF 20%	50V
C553	1-126-964-11	ELECT 10uF 20%	50V
C554	1-126-947-11	ELECT 47uF 20%	35V
C555	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V
C556	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C557	1-126-960-11	ELECT 1uF 20%	50V
C558	1-126-933-11	ELECT 100uF 20%	16V
C559	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C601	1-104-662-11	ELECT 22uF 20%	25V
C602	1-126-960-11	ELECT 1uF 20%	50V
C603	1-126-947-11	ELECT 47uF 20%	35V
C604	1-126-964-11	ELECT 10uF 20%	50V
C605	1-126-964-11	ELECT 10uF 20%	50V
C606	1-126-964-11	ELECT 10uF 20%	50V
C607	1-104-662-11	ELECT 22uF 20%	25V (GZR8D/GZR9D)
C608	1-126-960-11	ELECT 1uF 20%	50V (GZR8D/GZR9D)
C609	1-126-947-11	ELECT 47uF 20%	35V (GZR8D/GZR9D)
C610	1-126-933-11	ELECT 100uF 20%	16V (GZR8D/GZR9D)
C611	1-126-947-11	ELECT 47uF 20%	35V (GZR8D/GZR9D)
C612	1-126-947-11	ELECT 47uF 20%	35V
C701	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C702	1-126-947-11	ELECT 47uF 20%	35V
C703	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C704	1-126-947-11	ELECT 47uF 20%	35V
C705	1-126-947-11	ELECT 47uF 20%	35V
C706	1-126-947-11	ELECT 47uF 20%	35V
C707	1-126-961-11	ELECT 2.2uF 20%	50V
C708	1-162-962-11	CERAMIC CHIP 470PF 10%	50V
C709	1-126-960-11	ELECT 1uF 20%	50V
C710	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C711	1-104-658-11	ELECT 100uF 20%	10V
C713	1-126-961-11	ELECT 2.2uF 20%	50V
C714	1-126-947-11	ELECT 47uF 20%	35V
C715	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
< CONNECTOR >			
CN071	1-766-956-11	CONNECTOR, BOARD TO BOARD 15P	
CN101	1-784-770-11	CONNECTOR, FFC 9P	
CN102	1-568-830-11	CONNECTOR, FFC 11P	
CN103	1-568-830-11	CONNECTOR, FFC 11P	

Ref. No.	Part No.	Description	Remark
CN201	1-784-418-11	CONNECTOR, FFC (LIF(NON-ZIF) 21P	(GZR8D/GZR9D)
CN202	1-784-417-11	CONNECTOR, FFC (LIF(NON-ZIF) 23P (GZR7D)	
CN203	1-774-628-11	CONNECTOR, BOARD TO BOARD 17P	(GZR8D/GZR9D)
CN204	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P (GZR7D)	
CN205	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P	(GZR8D/GZR9D)
CN401	1-784-766-11	CONNECTOR, FFC 5P	
CN402	1-568-844-11	CONNECTOR, FFC 29P	
CN502	1-779-277-11	CONNECTOR, FFC (LIF(NON-ZIF)) 9P	
CN503	1-779-283-11	CONNECTOR, FFC (LIF(NON-ZIF)) 15P	
CN601	1-819-131-11	PIN, CONNECTOR 3P	
CN602	1-819-131-11	PIN, CONNECTOR 3P (GZR8D/GZR9D)	
< DIODE >			
D001	8-719-077-77	DIODE D3SB60F3	
D002	6-501-727-01	DIODE MAZ8047GHLS0	
D003	6-501-817-01	DIODE MA2J1110GLS0	
D004	6-501-713-01	DIODE MAZ8033GOLS0	
D006	6-501-817-01	DIODE MA2J1110GLS0	
D007	6-501-719-01	DIODE MAZ8039GHLS0	
D009	6-500-335-01	DIODE MC2838-T112-1	
D101	6-501-579-01	DIODE MC2837	
D102	6-500-334-01	DIODE MC2836-T112-1	
D103	6-501-579-01	DIODE MC2837	
D104	6-501-817-01	DIODE MA2J1110GLS0	
D107	6-500-334-01	DIODE MC2836-T112-1	
D201	6-501-817-01	DIODE MA2J1110GLS0	
D202	6-500-335-01	DIODE MC2838-T112-1	
D301	6-501-727-01	DIODE MAZ8047GHLS0 (EXCEPT RU,AUS)	
D551	6-500-334-01	DIODE MC2836-T112-1	
D552	6-500-334-01	DIODE MC2836-T112-1	
D553	6-501-817-01	DIODE MA2J1110GLS0	
D601	6-501-744-01	DIODE MAZ8068GHLS0	
D602	6-501-768-01	DIODE MAZ8120GMLS0	
D603	6-501-817-01	DIODE MA2J1110GLS0	
D604	6-500-334-01	DIODE MC2836-T112-1 (GZR8D/GZR9D)	
D701	6-501-579-01	DIODE MC2837	
D702	6-501-579-01	DIODE MC2837	
D704	6-501-817-01	DIODE MA2J1110GLS0	
D708	6-501-579-01	DIODE MC2837	
< FERRITE BEAD >			
FB201	1-400-980-21	INDUCTOR (EMI FERRITE) (EA,RU,AUS)	
FB202	1-400-980-21	INDUCTOR (EMI FERRITE) (EA,RU,AUS)	
FB214	1-400-967-21	INDUCTOR (EMI FERRITE) (EA,RU,AUS)	
FB215	1-400-967-21	INDUCTOR (EMI FERRITE) (EA,RU,AUS)	
< IC >			
IC001	6-700-830-01	IC KIA7809API	
IC002	6-700-830-01	IC KIA7809API	
IC003	6-700-830-01	IC KIA7809API	
IC101	6-712-027-01	IC R2A15216FP	
IC201	6-703-651-11	IC M61530FP-D60G (GZR8D/GZR9D)	
IC301	8-759-278-58	IC NJM4558V-TE2 (GZR7D/GZR8D)	
IC302	6-600-461-21	IC TOTX147L(F,T)	(DVD DIGITAL OUT (OPTICAL)) (GZR7D)
IC401	A-1554-569-A	IC uPD78F1106GF(S)-GAS-AX (for SERVICE)	(EXCEPT GZR9D:E2,AR)
IC401	A-1557-240-A	IC uPD78F1106GF(S)-GAS-AX (for SERVICE)	(GZR9D:E2,AR)
IC551	(Not supplied)	IC S-24CS16A0I-J8T1G	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
IC552	6-712-722-01	IC PST8229UL		Q257	8-729-027-23	TRANSISTOR DTA114EKA-T146	
IC553	6-712-179-01	IC NJM2370R04(Te1)				(GZR8D/GZR9D)	
IC701	8-759-700-07	IC NJM2903M		Q258	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
IC702	8-759-700-07	IC NJM2903M		Q259	8-729-027-23	TRANSISTOR DTA114EKA-T146	
IC703	8-759-359-49	IC NJM3414AV(Te2)		Q261	8-729-027-23	TRANSISTOR DTA114EKA-T146	
		< JACK >		Q301	8-729-056-46	TRANSISTOR 2SC5053T100Q	(EXCEPT RU,AUS)
J301	1-815-045-11	JACK, PIN 2P (VIDEO/SAT (AUDIO IN))		Q302	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	(EXCEPT RU,AUS)
J302	1-774-785-11	JACK, PIN 1P (SUBWOOFER OUT)	(GZR7D/GZR8D)	Q303	8-729-037-13	TRANSISTOR KTA1271Y (EXCEPT RU,AUS)	
		< CONNECTOR >		Q304	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	(EXCEPT RU,AUS)
J303	1-820-048-11	CONNECTOR (LIGHTING) 5P	(D-LIGHT SYNC OUT) (EXCEPT RU,AUS)	Q401	6-551-681-01	TRANSISTOR RT1P431C-TP-1	
		< JUMPER RESISTOR >		Q402	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR101	1-216-864-11	SHORT CHIP	0	Q403	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR102	1-216-864-11	SHORT CHIP	0	Q551	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
JR103	1-216-864-11	SHORT CHIP	0	Q552	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
JR104	1-216-864-11	SHORT CHIP	0	Q553	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR105	1-216-864-11	SHORT CHIP	0	Q601	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
JR106	1-216-864-11	SHORT CHIP	0	Q602	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
JR107	1-216-864-11	SHORT CHIP	0	Q603	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
JR108	1-216-864-11	SHORT CHIP	0	Q604	8-729-036-89	TRANSISTOR KTC3198GR-AT	
JR109	1-216-864-11	SHORT CHIP	0	Q605	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
JR110	1-216-864-11	SHORT CHIP	0	Q606	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
JR111	1-216-864-11	SHORT CHIP	0	Q607	8-729-037-13	TRANSISTOR KTA1271Y	
JR112	1-216-864-11	SHORT CHIP	0	Q608	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
JR113	1-216-864-11	SHORT CHIP	0	Q609	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	(GZR8D/GZR9D)
JR114	1-216-864-11	SHORT CHIP	0	Q610	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	(GZR8D/GZR9D)
JR115	1-216-864-11	SHORT CHIP	0	Q611	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	(GZR8D/GZR9D)
JR116	1-216-864-11	SHORT CHIP	0	Q612	8-729-037-03	TRANSISTOR KTA1266GR-AT (GZR8D/GZR9D)	
JR117	1-216-864-11	SHORT CHIP	0	Q613	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	(GZR8D/GZR9D)
JR118	1-216-864-11	SHORT CHIP	0	Q614	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	(GZR8D/GZR9D)
JR119	1-216-864-11	SHORT CHIP	0	Q615	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	(GZR8D/GZR9D)
JR401	1-216-864-11	SHORT CHIP	0	Q616	8-729-036-89	TRANSISTOR KTC3198GR-AT	
JR402	1-216-864-11	SHORT CHIP	0	Q617	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
		< TRANSISTOR >		Q618	8-729-037-13	TRANSISTOR KTA1271Y	
Q011	8-729-027-43	TRANSISTOR DTC114EKA-T146		Q619	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q012	8-729-036-89	TRANSISTOR KTC3198GR-AT		Q916	8-729-037-13	TRANSISTOR KTA1271Y	
Q101	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF				< RESISTOR >	
Q102	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R001	1-216-801-11	METAL CHIP 22	5% 1/10W
Q103	8-729-040-76	TRANSISTOR KTA1273-Y-AT		R002	1-216-821-11	METAL CHIP 1K	5% 1/10W
Q104	8-729-037-13	TRANSISTOR KTA1271Y		R003	1-216-827-11	METAL CHIP 3.3K	5% 1/10W
Q105	6-551-276-01	TRANSISTOR RT1N431C-TP-1		△ R004	1-215-860-11	METAL OXIDE 33	5% 1W F
Q106	6-551-276-01	TRANSISTOR RT1N431C-TP-1		R010	1-216-837-11	METAL CHIP 22K	5% 1/10W
Q107	6-551-276-01	TRANSISTOR RT1N431C-TP-1		R013	1-216-837-11	METAL CHIP 22K	5% 1/10W
Q128	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R014	1-216-833-11	METAL CHIP 10K	5% 1/10W
Q178	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R016	1-216-845-11	METAL CHIP 100K	5% 1/10W
Q251	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R020	1-216-836-11	METAL CHIP 18K	5% 1/10W
Q252	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R021	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
Q253	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	(GZR8D/GZR9D)	R022	1-216-857-11	METAL CHIP 1M	5% 1/10W
Q254	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	(GZR8D/GZR9D)	△ R059	1-215-890-11	METAL OXIDE 470	5% 2W F
Q255	8-729-027-23	TRANSISTOR DTA114EKA-T146	(GZR8D/GZR9D)	△ R060	1-215-890-11	METAL OXIDE 470	5% 2W F
Q256	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	(GZR8D/GZR9D)	R063	1-216-809-11	METAL CHIP 100	5% 1/10W
				R064	1-216-809-11	METAL CHIP 100	5% 1/10W
				R101	1-216-809-11	METAL CHIP 100	5% 1/10W
				R102	1-216-809-11	METAL CHIP 100	5% 1/10W

HCD-GZR7D/GZR8D/GZR9D

Ver. 1.1

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	
R103	1-216-809-11	METAL CHIP	100 5%	1/10W	R161	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R104	1-216-809-11	METAL CHIP	100 5%	1/10W	R162	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R105	1-216-809-11	METAL CHIP	100 5%	1/10W	R163	1-216-837-11	METAL CHIP 22K 5%	1/10W
R106	1-216-809-11	METAL CHIP	100 5%	1/10W	R164	1-216-837-11	METAL CHIP 22K 5%	1/10W
R107	1-216-809-11	METAL CHIP	100 5%	1/10W	R165	1-216-837-11	METAL CHIP 22K 5%	1/10W
R108	1-216-809-11	METAL CHIP	100 5%	1/10W	R166	1-216-837-11	METAL CHIP 22K 5%	1/10W
R109	1-216-809-11	METAL CHIP	100 5%	1/10W	R167	1-216-837-11	METAL CHIP 22K 5%	1/10W
R110	1-216-809-11	METAL CHIP	100 5%	1/10W	R168	1-216-837-11	METAL CHIP 22K 5%	1/10W
R111	1-216-825-11	METAL CHIP	2.2K 5%	1/10W	R169	1-216-837-11	METAL CHIP 22K 5%	1/10W
R112	1-216-825-11	METAL CHIP	2.2K 5%	1/10W	R170	1-216-837-11	METAL CHIP 22K 5%	1/10W
R113	1-216-829-11	METAL CHIP	4.7K 5%	1/10W	R171	1-216-833-11	METAL CHIP 10K 5%	1/10W
R114	1-216-829-11	METAL CHIP	4.7K 5%	1/10W	R172	1-216-821-11	METAL CHIP 1K 5%	1/10W
R115	1-216-833-11	METAL CHIP	10K 5%	1/10W	R173	1-216-833-11	METAL CHIP 10K 5%	1/10W
R116	1-216-833-11	METAL CHIP	10K 5%	1/10W	R174	1-216-821-11	METAL CHIP 1K 5%	1/10W
R117	1-216-818-11	METAL CHIP	560 5%	1/10W (GZR9D)	R175	1-216-833-11	METAL CHIP 10K 5%	1/10W
R117	1-218-289-11	METAL CHIP	510 5%	1/10W (GZR8D)	R176	1-216-821-11	METAL CHIP 1K 5%	1/10W
R117	1-220-373-11	METAL CHIP	620 5%	1/10W (GZR7D)	R201	1-216-833-11	METAL CHIP 10K 5%	1/10W (GZR8D/GZR9D)
R118	1-216-818-11	METAL CHIP	560 5%	1/10W (GZR9D)	R202	1-216-833-11	METAL CHIP 10K 5%	1/10W (GZR8D/GZR9D)
R118	1-218-289-11	METAL CHIP	510 5%	1/10W (GZR8D)	R203	1-216-817-11	METAL CHIP 470 5%	1/10W (GZR8D/GZR9D)
R118	1-220-373-11	METAL CHIP	620 5%	1/10W (GZR7D)	R204	1-216-817-11	METAL CHIP 470 5%	1/10W (GZR8D/GZR9D)
R119	1-216-821-11	METAL CHIP	1K 5%	1/10W	R205	1-216-841-11	METAL CHIP 47K 5%	1/10W (GZR8D/GZR9D)
R120	1-216-821-11	METAL CHIP	1K 5%	1/10W	R206	1-216-841-11	METAL CHIP 47K 5%	1/10W (GZR8D/GZR9D)
R121	1-216-833-11	METAL CHIP	10K 5%	1/10W	R207	1-216-825-11	METAL CHIP 2.2K 5%	1/10W (GZR8D/GZR9D)
R122	1-216-833-11	METAL CHIP	10K 5%	1/10W	R208	1-216-825-11	METAL CHIP 2.2K 5%	1/10W (GZR8D/GZR9D)
R123	1-216-809-11	METAL CHIP	100 5%	1/10W	R209	1-216-825-11	METAL CHIP 2.2K 5%	1/10W (GZR8D/GZR9D)
R124	1-216-857-11	METAL CHIP	1M 5%	1/10W	R209	1-216-864-11	SHORT CHIP 0 (GZR7D)	
R126	1-216-864-11	SHORT CHIP	0 (GZR7D)		R210	1-216-825-11	METAL CHIP 2.2K 5%	1/10W (GZR8D/GZR9D)
R127	1-216-864-11	SHORT CHIP	0 (GZR8D/GZR9D)		R210	1-216-864-11	SHORT CHIP 0 (GZR7D)	
R130	1-216-809-11	METAL CHIP	100 5%	1/10W	R211	1-216-841-11	METAL CHIP 47K 5%	1/10W (GZR8D/GZR9D)
R131	1-216-833-11	METAL CHIP	10K 5%	1/10W	R212	1-216-841-11	METAL CHIP 47K 5%	1/10W (GZR8D/GZR9D)
R132	1-216-845-11	METAL CHIP	100K 5%	1/10W	R213	1-216-857-11	METAL CHIP 1M 5%	1/10W (GZR8D/GZR9D)
R133	1-216-841-11	METAL CHIP	47K 5%	1/10W	R214	1-216-857-11	METAL CHIP 1M 5%	1/10W (GZR8D/GZR9D)
R134	1-216-829-11	METAL CHIP	4.7K 5%	1/10W	R215	1-216-833-11	METAL CHIP 10K 5%	1/10W (GZR8D/GZR9D)
R135	1-216-824-11	METAL CHIP	1.8K 5%	1/10W	R216	1-216-833-11	METAL CHIP 10K 5%	1/10W (GZR8D/GZR9D)
R136	1-216-818-11	METAL CHIP	560 5%	1/10W	R217	1-216-857-11	METAL CHIP 1M 5%	1/10W (GZR8D/GZR9D)
R137	1-218-867-11	METAL CHIP	6.8K 0.5%	1/10W	R218	1-216-864-11	SHORT CHIP 0 (GZR7D)	
R138	1-216-826-11	METAL CHIP	2.7K 5%	1/10W	R219	1-216-819-11	METAL CHIP 680 5%	1/10W (GZR8D/GZR9D)
R139	1-216-829-11	METAL CHIP	4.7K 5%	1/10W	R220	1-216-819-11	METAL CHIP 680 5%	1/10W (GZR8D/GZR9D)
R140	1-216-849-11	METAL CHIP	220K 5%	1/10W	R221	1-216-821-11	METAL CHIP 1K 5%	1/10W (GZR8D/GZR9D)
R141	1-216-813-11	METAL CHIP	220 5%	1/10W	R222	1-216-825-11	METAL CHIP 2.2K 5%	1/10W (GZR8D/GZR9D)
R142	1-216-849-11	METAL CHIP	220K 5%	1/10W	R223	1-216-833-11	METAL CHIP 10K 5%	1/10W
R143	1-216-813-11	METAL CHIP	220 5%	1/10W	R224	1-216-833-11	METAL CHIP 10K 5%	1/10W
R144	1-216-864-11	SHORT CHIP	0		R225	1-216-864-11	SHORT CHIP 0 (GZR7D/GZR8D)	
R150	1-216-829-11	METAL CHIP	4.7K 5%	1/10W				
R151	1-216-833-11	METAL CHIP	10K 5%	1/10W (GZR7D)				
R151	1-216-864-11	SHORT CHIP	0 (GZR8D/GZR9D)					
R152	1-216-833-11	METAL CHIP	10K 5%	1/10W (GZR7D)				
R152	1-216-864-11	SHORT CHIP	0 (GZR8D/GZR9D)					
R155	1-216-821-11	METAL CHIP	1K 5%	1/10W				
R156	1-216-821-11	METAL CHIP	1K 5%	1/10W				
R157	1-216-829-11	METAL CHIP	4.7K 5%	1/10W				
R158	1-216-829-11	METAL CHIP	4.7K 5%	1/10W				
R159	1-216-829-11	METAL CHIP	4.7K 5%	1/10W				
R160	1-216-829-11	METAL CHIP	4.7K 5%	1/10W				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R226	1-216-864-11	SHORT CHIP	0 (GZR8D)	R272	1-216-841-11	METAL CHIP	47K 5% 1/10W
R227	1-216-864-11	SHORT CHIP	0 (GZR7D)				(GZR8D/GZR9D)
R231	1-216-833-11	METAL CHIP	10K 5% 1/10W	R273	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R232	1-216-833-11	METAL CHIP	10K 5% 1/10W				(GZR8D/GZR9D)
R233	1-216-821-11	METAL CHIP	1K 5% 1/10W	R274	1-216-841-11	METAL CHIP	47K 5% 1/10W
			(GZR8D/GZR9D)				(GZR8D/GZR9D)
R234	1-216-821-11	METAL CHIP	1K 5% 1/10W	R275	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
			(GZR8D/GZR9D)				(GZR8D/GZR9D)
R235	1-216-841-11	METAL CHIP	47K 5% 1/10W	R276	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
			(GZR8D/GZR9D)				(GZR8D/GZR9D)
R236	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R276	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
			(GZR8D/GZR9D)				(GZR7D)
R237	1-216-833-11	METAL CHIP	10K 5% 1/10W	R277	1-216-837-11	METAL CHIP	22K 5% 1/10W
			(GZR8D/GZR9D)	R278	1-216-837-11	METAL CHIP	22K 5% 1/10W
R238	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R279	1-216-841-11	METAL CHIP	47K 5% 1/10W
			(GZR8D/GZR9D)	R280	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R239	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R281	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
			(GZR8D/GZR9D)	R282	1-216-841-11	METAL CHIP	47K 5% 1/10W
R240	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R283	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
			(GZR8D/GZR9D)	R284	1-216-864-11	SHORT CHIP	0 (GZR7D/GZR8D)
R241	1-216-833-11	METAL CHIP	10K 5% 1/10W	R285	1-216-864-11	SHORT CHIP	0 (GZR9D)
			(GZR8D/GZR9D)				
R242	1-216-833-11	METAL CHIP	10K 5% 1/10W	R286	1-216-845-11	METAL CHIP	100K 5% 1/10W
			(GZR8D/GZR9D)	R287	1-216-864-11	SHORT CHIP	0
R243	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R293	1-216-833-11	METAL CHIP	10K 5% 1/10W
			(GZR8D/GZR9D)	R301	1-216-821-11	METAL CHIP	1K 5% 1/10W
R244	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R302	1-216-821-11	METAL CHIP	1K 5% 1/10W
			(GZR8D/GZR9D)				
R245	1-216-841-11	METAL CHIP	47K 5% 1/10W	R303	1-216-845-11	METAL CHIP	100K 5% 1/10W
			(GZR8D/GZR9D)	R304	1-216-845-11	METAL CHIP	100K 5% 1/10W
R246	1-216-841-11	METAL CHIP	47K 5% 1/10W	R305	1-216-864-11	SHORT CHIP	0 (GZR7D/GZR8D)
			(GZR8D/GZR9D)	R306	1-216-845-11	METAL CHIP	100K 5% 1/10W
R248	1-216-864-11	SHORT CHIP	0 (GZR7D)				(GZR7D/GZR8D)
R249	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R307	1-216-864-11	SHORT CHIP	0 (GZR7D/GZR8D)
			(GZR8D/GZR9D)				
R250	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	△ R311	1-243-563-71	METAL OXIDE	82 5% 2W F
			(GZR8D/GZR9D)				(EXCEPT RU,AUS)
R253	1-216-841-11	METAL CHIP	47K 5% 1/10W	R312	1-216-821-11	METAL CHIP	1K 5% 1/10W
			(GZR8D/GZR9D)				(EXCEPT RU,AUS)
R254	1-216-841-11	METAL CHIP	47K 5% 1/10W	R313	1-216-813-11	METAL CHIP	220 5% 1/10W
			(GZR8D/GZR9D)				(EXCEPT RU,AUS)
R255	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R314	1-216-832-11	METAL CHIP	8.2K 5% 1/10W
R256	1-216-825-11	METAL CHIP	2.2K 5% 1/10W				(EXCEPT RU,AUS)
R257	1-216-853-11	METAL CHIP	470K 5% 1/10W	R315	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R258	1-216-853-11	METAL CHIP	470K 5% 1/10W				(EXCEPT RU,AUS)
R259	1-216-853-11	METAL CHIP	470K 5% 1/10W	R316	1-216-849-11	METAL CHIP	220K 5% 1/10W
			(GZR8D/GZR9D)				(EXCEPT RU,AUS)
R260	1-216-853-11	METAL CHIP	470K 5% 1/10W	R317	1-216-842-11	METAL CHIP	56K 5% 1/10W
			(GZR8D/GZR9D)				(EXCEPT RU,AUS)
R261	1-216-841-11	METAL CHIP	47K 5% 1/10W	R319	1-216-839-11	METAL CHIP	33K 5% 1/10W
							(EXCEPT RU,AUS)
R262	1-216-841-11	METAL CHIP	47K 5% 1/10W	R321	1-216-833-11	METAL CHIP	10K 5% 1/10W
R263	1-216-825-11	METAL CHIP	2.2K 5% 1/10W				(GZR7D/GZR8D)
R264	1-216-825-11	METAL CHIP	2.2K 5% 1/10W				
R265	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R322	1-216-817-11	METAL CHIP	470 5% 1/10W
			(GZR8D/GZR9D)				(GZR7D/GZR8D)
R266	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R323	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
			(GZR8D/GZR9D)				(GZR8D)
R267	1-216-841-11	METAL CHIP	47K 5% 1/10W	R323	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R268	1-216-829-11	METAL CHIP	4.7K 5% 1/10W				(GZR7D)
R269	1-216-841-11	METAL CHIP	47K 5% 1/10W	R325	1-216-833-11	METAL CHIP	10K 5% 1/10W
			(GZR8D/GZR9D)				(EXCEPT RU,AUS)
R270	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R326	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
			(GZR8D/GZR9D)				(EXCEPT RU,AUS)
R271	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R327	1-216-821-11	METAL CHIP	1K 5% 1/10W
			(GZR8D/GZR9D)				(EXCEPT RU,AUS)

HCD-GZR7D/GZR8D/GZR9D

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MAIN

Ref. No.	Part No.	Description	Quantity	Percentage	Remark	Ref. No.	Part No.	Description	Quantity	Percentage	Remark
R328	1-216-809-11	METAL CHIP	100	5%	1/10W (GZR7D/GZR8D)	R458	1-216-833-11	METAL CHIP	10K	5%	1/10W (PH,SP,TH)
R401	1-216-833-11	METAL CHIP	10K	5%	1/10W	R458	1-216-837-11	METAL CHIP	22K	5%	1/10W (AUS)
R402	1-216-833-11	METAL CHIP	10K	5%	1/10W	R458	1-216-844-11	METAL CHIP	82K	5%	1/10W (EA)
R403	1-216-833-11	METAL CHIP	10K	5%	1/10W	R458	1-216-848-11	METAL CHIP	180K	5%	1/10W (E12)
R404	1-216-833-11	METAL CHIP	10K	5%	1/10W	R459	1-216-809-11	METAL CHIP	100	5%	1/10W
R405	1-216-809-11	METAL CHIP	100	5%	1/10W	R460	1-216-809-11	METAL CHIP	100	5%	1/10W
R406	1-216-809-11	METAL CHIP	100	5%	1/10W	R461	1-216-809-11	METAL CHIP	100	5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W	R462	1-216-821-11	METAL CHIP	1K	5%	1/10W
R408	1-216-809-11	METAL CHIP	100	5%	1/10W	R463	1-216-821-11	METAL CHIP	1K	5%	1/10W
R409	1-216-809-11	METAL CHIP	100	5%	1/10W	R464	1-216-821-11	METAL CHIP	1K	5%	1/10W
R410	1-216-809-11	METAL CHIP	100	5%	1/10W	R465	1-216-821-11	METAL CHIP	1K	5%	1/10W
R413	1-216-809-11	METAL CHIP	100	5%	1/10W	R466	1-216-809-11	METAL CHIP	100	5%	1/10W
R414	1-216-809-11	METAL CHIP	100	5%	1/10W	R467	1-216-809-11	METAL CHIP	100	5%	1/10W
R415	1-216-809-11	METAL CHIP	100	5%	1/10W	R468	1-216-809-11	METAL CHIP	100	5%	1/10W
R416	1-216-809-11	METAL CHIP	100	5%	1/10W	R469	1-216-809-11	METAL CHIP	100	5%	1/10W
R417	1-216-809-11	METAL CHIP	100	5%	1/10W	R470	1-216-809-11	METAL CHIP	100	5%	1/10W
R418	1-216-821-11	METAL CHIP	1K	5%	1/10W	R471	1-216-809-11	METAL CHIP	100	5%	1/10W (GZR8D/GZR9D)
R419	1-216-809-11	METAL CHIP	100	5%	1/10W	R472	1-216-809-11	METAL CHIP	100	5%	1/10W
R420	1-216-809-11	METAL CHIP	100	5%	1/10W	R473	1-216-809-11	METAL CHIP	100	5%	1/10W
R421	1-216-809-11	METAL CHIP	100	5%	1/10W	R474	1-216-809-11	METAL CHIP	100	5%	1/10W
R422	1-216-809-11	METAL CHIP	100	5%	1/10W	R475	1-216-809-11	METAL CHIP	100	5%	1/10W (GZR8D/GZR9D)
R423	1-216-809-11	METAL CHIP	100	5%	1/10W	R476	1-216-809-11	METAL CHIP	100	5%	1/10W
R424	1-216-809-11	METAL CHIP	100	5%	1/10W	R477	1-216-809-11	METAL CHIP	100	5%	1/10W
R425	1-216-833-11	METAL CHIP	10K	5%	1/10W	R478	1-216-809-11	METAL CHIP	100	5%	1/10W
R426	1-216-809-11	METAL CHIP	100	5%	1/10W	R479	1-216-809-11	METAL CHIP	100	5%	1/10W
R427	1-216-809-11	METAL CHIP	100	5%	1/10W	R480	1-216-809-11	METAL CHIP	100	5%	1/10W
R428	1-216-809-11	METAL CHIP	100	5%	1/10W	R481	1-216-809-11	METAL CHIP	100	5%	1/10W
R433	1-216-821-11	METAL CHIP	1K	5%	1/10W	R482	1-216-809-11	METAL CHIP	100	5%	1/10W
R434	1-216-809-11	METAL CHIP	100	5%	1/10W	R483	1-216-809-11	METAL CHIP	100	5%	1/10W
R435	1-216-809-11	METAL CHIP	100	5%	1/10W	R484	1-216-809-11	METAL CHIP	100	5%	1/10W
R436	1-216-809-11	METAL CHIP	100	5%	1/10W	R485	1-216-809-11	METAL CHIP	100	5%	1/10W
R437	1-216-809-11	METAL CHIP	100	5%	1/10W	R486	1-216-841-11	METAL CHIP	47K	5%	1/10W
R438	1-216-809-11	METAL CHIP	100	5%	1/10W	R487	1-216-841-11	METAL CHIP	47K	5%	1/10W
R439	1-216-809-11	METAL CHIP	100	5%	1/10W	R488	1-216-844-11	METAL CHIP	82K	5%	1/10W (EA)
R440	1-216-809-11	METAL CHIP	100	5%	1/10W	R488	1-216-848-11	METAL CHIP	180K	5%	1/10W (E12)
R441	1-216-809-11	METAL CHIP	100	5%	1/10W	R489	1-216-809-11	METAL CHIP	100	5%	1/10W
R442	1-216-809-11	METAL CHIP	100	5%	1/10W	R490	1-216-845-11	METAL CHIP	100K	5%	1/10W
R443	1-216-809-11	METAL CHIP	100	5%	1/10W	R491	1-216-845-11	METAL CHIP	100K	5%	1/10W
R444	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R501	1-216-809-11	METAL CHIP	100	5%	1/10W
R445	1-216-837-11	METAL CHIP	22K	5%	1/10W	R502	1-216-809-11	METAL CHIP	100	5%	1/10W
R446	1-216-841-11	METAL CHIP	47K	5%	1/10W	R503	1-216-809-11	METAL CHIP	100	5%	1/10W
R447	1-216-837-11	METAL CHIP	22K	5%	1/10W	R504	1-216-809-11	METAL CHIP	100	5%	1/10W
R448	1-216-837-11	METAL CHIP	22K	5%	1/10W	R505	1-216-821-11	METAL CHIP	1K	5%	1/10W
R449	1-216-837-11	METAL CHIP	22K	5%	1/10W	R506	1-216-821-11	METAL CHIP	1K	5%	1/10W
R450	1-216-837-11	METAL CHIP	22K	5%	1/10W	R509	1-216-809-11	METAL CHIP	100	5%	1/10W
R451	1-216-837-11	METAL CHIP	22K	5%	1/10W	R510	1-216-809-11	METAL CHIP	100	5%	1/10W
R452	1-216-837-11	METAL CHIP	22K	5%	1/10W	R511	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E2,AR)
R453	1-216-837-11	METAL CHIP	22K	5%	1/10W	R512	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E2,AR)
R454	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R513	1-216-809-11	METAL CHIP	100	5%	1/10W
R455	1-216-833-11	METAL CHIP	10K	5%	1/10W	R514	1-216-809-11	METAL CHIP	100	5%	1/10W
R456	1-216-849-11	METAL CHIP	220K	5%	1/10W	R515	1-216-809-11	METAL CHIP	100	5%	1/10W
R457	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GZR9D)	R516	1-216-809-11	METAL CHIP	100	5%	1/10W
R457	1-216-834-11	METAL CHIP	12K	5%	1/10W (GZR8D)						
R458	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (RU)						
R458	1-216-830-11	METAL CHIP	5.6K	5%	1/10W (E2,AR)						

Ref. No.	Part No.	Description	Quantity	Percentage	Remark	Ref. No.	Part No.	Description	Quantity	Percentage	Remark
R517	1-216-809-11	METAL CHIP	100	5%	1/10W	R637	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R518	1-216-864-11	SHORT CHIP	0			R638	1-216-833-11	METAL CHIP	10K	5%	1/10W
R551	1-216-809-11	METAL CHIP	100	5%	1/10W	R639	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R552	1-216-809-11	METAL CHIP	100	5%	1/10W	R640	1-216-821-11	METAL CHIP	1K	5%	1/10W
R553	1-216-837-11	METAL CHIP	22K	5%	1/10W	R701	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R554	1-216-841-11	METAL CHIP	47K	5%	1/10W	R703	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R555	1-216-841-11	METAL CHIP	47K	5%	1/10W	R704	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R556	1-216-845-11	METAL CHIP	100K	5%	1/10W	R705	1-216-837-11	METAL CHIP	22K	5%	1/10W
R558	1-216-837-11	METAL CHIP	22K	5%	1/10W	R706	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R559	1-216-841-11	METAL CHIP	47K	5%	1/10W	R708	1-216-837-11	METAL CHIP	22K	5%	1/10W
R560	1-216-837-11	METAL CHIP	22K	5%	1/10W	R709	1-216-809-11	METAL CHIP	100	5%	1/10W
R561	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R710	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R562	1-216-841-11	METAL CHIP	47K	5%	1/10W	R711	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R563	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R712	1-216-833-11	METAL CHIP	10K	5%	1/10W
R564	1-216-845-11	METAL CHIP	100K	5%	1/10W	R713	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R601	1-216-801-11	METAL CHIP	22	5%	1/10W	R714	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R602	1-216-801-11	METAL CHIP	22	5%	1/10W	R715	1-216-841-11	METAL CHIP	47K	5%	1/10W
R603	1-216-837-11	METAL CHIP	22K	5%	1/10W	R716	1-216-841-11	METAL CHIP	47K	5%	1/10W
R604	1-216-849-11	METAL CHIP	220K	5%	1/10W	R717	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R605	1-216-837-11	METAL CHIP	22K	5%	1/10W	R718	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R606	1-216-849-11	METAL CHIP	220K	5%	1/10W	R719	1-216-845-11	METAL CHIP	100K	5%	1/10W
R607	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R720	1-216-821-11	METAL CHIP	1K	5%	1/10W
R608	1-216-845-11	METAL CHIP	100K	5%	1/10W	R721	1-216-845-11	METAL CHIP	100K	5%	1/10W
R609	1-216-833-11	METAL CHIP	10K	5%	1/10W	R722	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R610	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R723	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R611	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R724	1-216-841-11	METAL CHIP	47K	5%	1/10W
R612	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R725	1-216-837-11	METAL CHIP	22K	5%	1/10W
R613	1-216-841-11	METAL CHIP	47K	5%	1/10W	R726	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R614	1-216-796-11	METAL CHIP	8.2	5%	1/10W	R727	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R615	1-216-796-11	METAL CHIP	8.2	5%	1/10W (GZR8D/GZR9D)	R728	1-216-864-11	SHORT CHIP	0		
R616	1-216-837-11	METAL CHIP	22K	5%	1/10W (GZR8D/GZR9D)	R729	1-216-864-11	SHORT CHIP	0		
R617	1-216-855-11	METAL CHIP	680K	5%	1/10W (GZR8D/GZR9D)	R730	1-216-864-11	SHORT CHIP	0		
R618	1-216-837-11	METAL CHIP	22K	5%	1/10W (GZR8D/GZR9D)	R1201	1-216-864-11	SHORT CHIP	0		(EXCEPT EA,RU,AUS)
R619	1-216-849-11	METAL CHIP	220K	5%	1/10W (GZR8D/GZR9D)	R1202	1-216-864-11	SHORT CHIP	0		(EXCEPT EA,RU,AUS)
△ R620	1-243-681-71	METAL OXIDE	33	5%	1W F (GZR8D/GZR9D)	R1214	1-216-295-11	SHORT CHIP	0		(EXCEPT EA,RU,AUS)
R622	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GZR8D/GZR9D)	R1215	1-216-295-11	SHORT CHIP	0		(EXCEPT EA,RU,AUS)
R623	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GZR8D/GZR9D)			< VIBRATOR >			
R624	1-216-833-11	METAL CHIP	10K	5%	1/10W (GZR8D/GZR9D)	X401	1-795-950-11	VIBRATOR, CRYSTAL (32.768kHz)			
R625	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GZR8D/GZR9D)	X402	1-795-721-21	VIBRATOR, CERAMIC (20MHz)			
R626	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GZR8D/GZR9D)			*****			
R627	1-216-821-11	METAL CHIP	1K	5%	1/10W (GZR8D/GZR9D)			< CAPACITOR >			
R628	1-216-837-11	METAL CHIP	22K	5%	1/10W (GZR8D:E12,EA,PH,SP,TH/GZR9D)	C851	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R629	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C852	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R631	1-216-821-11	METAL CHIP	1K	5%	1/10W	C853	1-126-160-11	ELECT	1uF	20%	50V
△ R632	1-243-681-71	METAL OXIDE	33	5%	1W F	C854	1-126-160-11	ELECT	1uF	20%	50V
R633	1-216-821-11	METAL CHIP	1K	5%	1/10W	C855	1-124-259-11	ELECT	4.7uF	20%	50V
R634	1-216-809-11	METAL CHIP	100	5%	1/10W	C856	1-124-589-11	ELECT	47uF	20%	16V
R635	1-216-809-11	METAL CHIP	100	5%	1/10W	C857	1-124-589-11	ELECT	47uF	20%	16V
R636	1-216-821-11	METAL CHIP	1K	5%	1/10W	C858	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
						C859	1-126-160-11	ELECT	1uF	20%	50V
						C860	1-126-160-11	ELECT	1uF	20%	50V
						C861	1-124-259-11	ELECT	4.7uF	20%	50V
						C862	1-124-259-11	ELECT	4.7uF	20%	50V
						C863	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V
						C864	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
						C866	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V

HCD-GZR7D/GZR8D/GZR9D

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MIC **MOTOR (LD)** **MOTOR (TB)** **PANEL**

Ref. No.	Part No.	Description	Remark
C867	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C868	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C869	1-119-772-11	ELECT 47uF 20%	35V
C870	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C875	1-124-234-00	ELECT 22uF 20%	16V
C878	1-126-160-11	ELECT 1uF 20%	50V
C879	1-164-392-11	CERAMIC CHIP 390PF 5%	50V
C880	1-124-463-00	ELECT 0.1uF 20%	50V
C881	1-126-176-11	ELECT 220uF 20%	10V
C882	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C885	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C886	1-124-259-11	ELECT 4.7uF 20%	50V
C887	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C888	1-126-157-11	ELECT 10uF 20%	16V
C889	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
C891	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C892	1-164-156-11	CERAMIC CHIP 0.1uF	25V
< CABLE HOLDER >			
CN851	1-820-830-11	HOLDER, CABLE 6P	
< DIODE >			
D851	8-719-069-54	DIODE UDZSNPTE-175.1B	
< IC >			
IC851	6-709-116-01	IC TC9488FG	
IC852	8-759-278-58	IC NJM4558V-TE2	
< JACK >			
J851	1-817-630-11	JACK (LARGE TYPE) (MIC 1)	
J852	1-817-630-11	JACK (LARGE TYPE) (MIC 2)	
< JUMPER RESISTOR >			
JR801	1-216-864-11	SHORT CHIP 0	
JR802	1-216-864-11	SHORT CHIP 0	
JR803	1-216-864-11	SHORT CHIP 0	
JR804	1-216-864-11	SHORT CHIP 0	
JR805	1-216-864-11	SHORT CHIP 0	
JR806	1-216-864-11	SHORT CHIP 0	
JR807	1-216-864-11	SHORT CHIP 0	
JR809	1-216-864-11	SHORT CHIP 0	
JR811	1-216-864-11	SHORT CHIP 0	
JR814	1-216-864-11	SHORT CHIP 0	
JR815	1-216-864-11	SHORT CHIP 0	
JR816	1-216-864-11	SHORT CHIP 0	
< RESISTOR >			
R851	1-216-830-11	METAL CHIP 5.6K 5%	1/10W
R852	1-216-830-11	METAL CHIP 5.6K 5%	1/10W
R853	1-216-821-11	METAL CHIP 1K 5%	1/10W
R854	1-216-821-11	METAL CHIP 1K 5%	1/10W
R855	1-216-833-11	METAL CHIP 10K 5%	1/10W
R856	1-216-833-11	METAL CHIP 10K 5%	1/10W
R858	1-216-833-11	METAL CHIP 10K 5%	1/10W
R859	1-216-833-11	METAL CHIP 10K 5%	1/10W
R860	1-216-821-11	METAL CHIP 1K 5%	1/10W
R861	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R862	1-216-809-11	METAL CHIP 100 5%	1/10W
R863	1-216-809-11	METAL CHIP 100 5%	1/10W

Ref. No.	Part No.	Description	Remark
R864	1-216-809-11	METAL CHIP 100 5%	1/10W
R865	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R867	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
R868	1-216-834-11	METAL CHIP 12K 5%	1/10W
R869	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
R870	1-216-828-11	METAL CHIP 3.9K 5%	1/10W
R871	1-216-835-11	METAL CHIP 15K 5%	1/10W
R872	1-216-815-11	METAL CHIP 330 5%	1/10W
R873	1-216-815-11	METAL CHIP 330 5%	1/10W
R880	1-216-833-11	METAL CHIP 10K 5%	1/10W
R881	1-216-845-11	METAL CHIP 100K 5%	1/10W
R882	1-216-833-11	METAL CHIP 10K 5%	1/10W
R883	1-216-841-11	METAL CHIP 47K 5%	1/10W
R884	1-216-835-11	METAL CHIP 15K 5%	1/10W
R885	1-216-837-11	METAL CHIP 22K 5%	1/10W
R886	1-216-864-11	SHORT CHIP 0	
R887	1-216-845-11	METAL CHIP 100K 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	1-216-864-11	SHORT CHIP 0	
R891	1-216-833-11	METAL CHIP 10K 5%	1/10W
R892	1-216-833-11	METAL CHIP 10K 5%	1/10W
R893	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
R894	1-216-833-11	METAL CHIP 10K 5%	1/10W
R895	1-216-838-11	METAL CHIP 27K 5%	1/10W
< VARIABLE RESISTOR >			
RV851	1-223-983-21	RES, VAR, CARBON 50K (MIC 1 LEVEL)	
RV852	1-223-983-21	RES, VAR, CARBON 50K (MIC 2 LEVEL)	
RV853	1-223-983-21	RES, VAR, CARBON 50K (ECHO LEVEL)	

		1-687-133-12	MOTOR (LD) BOARD

		1-687-134-12	MOTOR (TB) BOARD

< CONNECTOR >			
CN742	1-784-727-11	CONNECTOR, FFC 5P	

		A-1488-020-A	PANEL BOARD, COMPLETE (GZR9D)
		A-1493-105-A	PANEL BOARD, COMPLETE (GZR7D/GZR8D)

< CAPACITOR >			
C601	1-115-467-11	CERAMIC CHIP 0.22uF 10%	10V
C701	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C702	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C703	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C704	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C705	1-162-927-11	CERAMIC CHIP 100PF 5%	50V
C706	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C707	1-126-947-11	ELECT 47uF 20%	35V
C708	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C709	1-128-131-11	ELECT 22uF 20%	50V
C731	1-124-257-00	ELECT 2.2uF 20%	50V
C732	1-124-257-00	ELECT 2.2uF 20%	50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< CONNECTOR >		R611	1-216-821-11	METAL CHIP 1K 5%	1/10W
CN601	1-568-844-11	CONNECTOR, FFC 29P		R612	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
CN606	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P		R613	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
CN607	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P (GZR9D)		R614	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
CN608	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P (GZR7D/GZR8D)		R616	1-216-833-11	METAL CHIP 10K 5%	1/10W
		< DIODE >		R619	1-216-833-11	METAL CHIP 10K 5%	1/10W
D601	6-501-451-01	LED 1L4344B22COC DT02 (POWER ILLUMINATOR)		R621	1-216-821-11	METAL CHIP 1K 5%	1/10W
D602	6-501-451-01	LED 1L4344B22COC DT02 (POWER ILLUMINATOR)		R622	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
D603	6-501-451-01	LED 1L4344B22COC DT02 (POWER ILLUMINATOR)		R623	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
D604	6-501-451-01	LED 1L4344B22COC DT02 (POWER ILLUMINATOR)		R624	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
D605	6-501-451-01	LED 1L4344B22COC DT02 (POWER ILLUMINATOR)		R625	1-216-833-11	METAL CHIP 10K 5%	1/10W
D606	6-501-451-01	LED 1L4344B22COC DT02 (POWER ILLUMINATOR)		R626	1-216-837-11	METAL CHIP 22K 5%	1/10W
		< FLUORESCENT INDICATOR TUBE >		R656	1-216-809-11	METAL CHIP 100 5%	1/10W
FL701	1-483-001-11	INDICATOR TUBE, FLUORESCENT		R657	1-216-821-11	METAL CHIP 1K 5%	1/10W
		< IC >		R661	1-216-819-11	METAL CHIP 680 5%	1/10W
IC601	6-711-556-01	IC NJL24H400B-SA (IR)		R662	1-216-819-11	METAL CHIP 680 5%	1/10W
IC701	6-709-115-11	IC NJU3427FH2		R663	1-216-819-11	METAL CHIP 680 5%	1/10W
		< JUMPER RESISTOR >		R664	1-216-819-11	METAL CHIP 680 5%	1/10W
JR601	1-216-864-11	SHORT CHIP 0		R665	1-216-819-11	METAL CHIP 680 5%	1/10W
		< TRANSISTOR >		R666	1-216-819-11	METAL CHIP 680 5%	1/10W
Q601	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R671	1-216-819-11	METAL CHIP 680 5%	1/10W
Q602	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R672	1-216-819-11	METAL CHIP 680 5%	1/10W
Q603	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R673	1-216-819-11	METAL CHIP 680 5%	1/10W
Q604	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R674	1-216-819-11	METAL CHIP 680 5%	1/10W
Q605	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R675	1-216-819-11	METAL CHIP 680 5%	1/10W
Q606	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R676	1-216-819-11	METAL CHIP 680 5%	1/10W
Q607	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF (GZR9D)		R681	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q608	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R682	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q609	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R683	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q701	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R684	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q702	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R685	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q703	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R686	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q704	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R687	1-216-833-11	METAL CHIP 10K 5%	1/10W (GZR9D)
Q705	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R701	1-216-817-11	METAL CHIP 470 5%	1/10W
Q706	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R702	1-216-817-11	METAL CHIP 470 5%	1/10W
Q707	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R703	1-216-817-11	METAL CHIP 470 5%	1/10W
Q708	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R704	1-216-817-11	METAL CHIP 470 5%	1/10W
Q709	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R705	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
Q710	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R711	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q711	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R712	1-216-841-11	METAL CHIP 47K 5%	1/10W
Q712	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R713	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
Q713	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R714	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
Q714	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R715	1-216-801-11	METAL CHIP 22 5%	1/10W
Q720	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R716	1-216-801-11	METAL CHIP 22 5%	1/10W
Q721	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		R721	1-216-841-11	METAL CHIP 47K 5%	1/10W
		< RESISTOR >		R722	1-216-841-11	METAL CHIP 47K 5%	1/10W
R601	1-216-813-11	METAL CHIP 220 5%	1/10W	R723	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R724	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R725	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R726	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R727	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R728	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R729	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R730	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R731	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R732	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R733	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R734	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R741	1-216-841-11	METAL CHIP 47K 5%	1/10W
				R742	1-216-841-11	METAL CHIP 47K 5%	1/10W

HCD-GZR7D/GZR8D/GZR9D

Ver. 1.1

PANEL **REGULATOR** **SENSOR**

Ref. No.	Part No.	Description	Remark
R743	1-216-841-11	METAL CHIP 47K 5%	1/10W
R744	1-216-841-11	METAL CHIP 47K 5%	1/10W
R745	1-216-841-11	METAL CHIP 47K 5%	1/10W
R746	1-216-841-11	METAL CHIP 47K 5%	1/10W
R747	1-216-841-11	METAL CHIP 47K 5%	1/10W
R748	1-216-841-11	METAL CHIP 47K 5%	1/10W
R749	1-216-841-11	METAL CHIP 47K 5%	1/10W
R750	1-216-841-11	METAL CHIP 47K 5%	1/10W
R751	1-216-841-11	METAL CHIP 47K 5%	1/10W
R752	1-216-841-11	METAL CHIP 47K 5%	1/10W
R753	1-216-841-11	METAL CHIP 47K 5%	1/10W
R754	1-216-841-11	METAL CHIP 47K 5%	1/10W
R755	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
R756	1-216-833-11	METAL CHIP 10K 5%	1/10W
R757	1-216-833-11	METAL CHIP 10K 5%	1/10W
R758	1-216-833-11	METAL CHIP 10K 5%	1/10W
R759	1-216-837-11	METAL CHIP 22K 5%	1/10W
R760	1-216-845-11	METAL CHIP 100K 5%	1/10W
R761	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R762	1-216-821-11	METAL CHIP 1K 5%	1/10W
R763	1-216-809-11	METAL CHIP 100 5%	1/10W
R764	1-216-821-11	METAL CHIP 1K 5%	1/10W
R765	1-216-811-11	METAL CHIP 150 5%	1/10W
R766	1-216-821-11	METAL CHIP 1K 5%	1/10W
< SWITCH >			
S601	1-771-410-21	SWITCH, TACTILE (DISPLAY)	
S611	1-771-410-21	SWITCH, TACTILE (ILLUMINATION)	
S612	1-771-410-21	SWITCH, TACTILE (PRESET EQ)	
S613	1-771-410-21	SWITCH, TACTILE (GROOVE)	
S614	1-771-410-21	SWITCH, TACTILE (EQ BAND/MEMORY)	
S621	1-771-410-21	SWITCH, TACTILE (ENTER)	
S622	1-771-410-21	SWITCH, TACTILE (SOUND FIELD)	
S623	1-771-410-21	SWITCH, TACTILE (◀▶)	
S624	1-771-410-21	SWITCH, TACTILE (■)	
S625	1-771-410-21	SWITCH, TACTILE (■)	
S626	1-771-410-21	SWITCH, TACTILE (▶▶▶▶ TUNING +)	
S627	1-771-410-21	SWITCH, TACTILE (◀◀◀◀ TUNING -)	
< CABLE HOLDER >			
WH604	1-824-029-21	HOLDER, CABLE 4P	
WH605	1-824-027-21	HOLDER, CABLE 3P	

REGULATOR BOARD			

7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3		
< CAPACITOR >			
C011	1-115-870-11	ELECT 0.47uF 20%	50V
C012	1-126-795-11	ELECT 10uF 20%	50V
C071	1-115-870-11	ELECT 0.47uF 20%	50V
C072	1-128-126-11	ELECT 100uF 20%	25V
C073	1-115-870-11	ELECT 0.47uF 20%	50V
C074	1-128-126-11	ELECT 100uF 20%	25V
C075	1-115-870-11	ELECT 0.47uF 20%	50V
C076	1-128-126-11	ELECT 100uF 20%	25V
C077	1-126-959-11	ELECT 0.47uF 20%	50V
C078	1-104-665-11	ELECT 100uF 20%	25V
C079	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V

Ref. No.	Part No.	Description	Remark
< CONNECTOR >			
* CN071	1-770-732-11	CONNECTOR, BOARD TO BOARD 15P	
* CN073	1-564-517-11	PLUG, CONNECTOR 2P	
< IC >			
IC003	6-710-643-01	IC BA00BC0WCP-V5E2	
IC071	6-710-643-01	IC BA00BC0WCP-V5E2	
IC072	6-710-643-01	IC BA00BC0WCP-V5E2	
IC073	6-710-643-01	IC BA00BC0WCP-V5E2	
IC075	8-759-700-07	IC NJM2903M	
IC076	6-710-642-01	IC SI-3010KFE	
< RESISTOR >			
R017	1-216-843-11	METAL CHIP 68K 5%	1/10W
R018	1-216-833-11	METAL CHIP 10K 5%	1/10W
R019	1-216-841-11	METAL CHIP 47K 5%	1/10W
R020	1-216-821-11	METAL CHIP 1K 5%	1/10W
R021	1-216-821-11	METAL CHIP 1K 5%	1/10W
R061	1-216-839-11	METAL CHIP 33K 5%	1/10W
R062	1-216-841-11	METAL CHIP 47K 5%	1/10W
R063	1-216-833-11	METAL CHIP 10K 5%	1/10W
R064	1-216-821-11	METAL CHIP 1K 5%	1/10W
R065	1-216-841-11	METAL CHIP 47K 5%	1/10W
R066	1-216-845-11	METAL CHIP 100K 5%	1/10W
R067	1-216-841-11	METAL CHIP 47K 5%	1/10W
R070	1-216-864-11	SHORT CHIP 0	
R071	1-216-845-11	METAL CHIP 100K 5%	1/10W
R072	1-216-841-11	METAL CHIP 47K 5%	1/10W
R073	1-216-841-11	METAL CHIP 47K 5%	1/10W
R075	1-216-864-11	SHORT CHIP 0	
R076	1-216-845-11	METAL CHIP 100K 5%	1/10W
R077	1-216-841-11	METAL CHIP 47K 5%	1/10W
R078	1-216-841-11	METAL CHIP 47K 5%	1/10W
R080	1-216-815-11	METAL CHIP 330 5%	1/10W
R082	1-216-832-11	METAL CHIP 8.2K 5%	1/10W
R084	1-216-833-11	METAL CHIP 10K 5%	1/10W
R086	1-216-809-11	METAL CHIP 100 5%	1/10W
R088	1-218-446-11	METAL CHIP 1 5%	1/10W
R090	1-218-446-11	METAL CHIP 1 5%	1/10W
R092	1-218-446-11	METAL CHIP 1 5%	1/10W
R094	1-218-446-11	METAL CHIP 1 5%	1/10W
R096	1-218-446-11	METAL CHIP 1 5%	1/10W
R098	1-218-446-11	METAL CHIP 1 5%	1/10W
R0100	1-218-446-11	METAL CHIP 1 5%	1/10W
R102	1-218-446-11	METAL CHIP 1 5%	1/10W
R104	1-218-446-11	METAL CHIP 1 5%	1/10W
R106	1-125-891-11	CERAMIC CHIP 0.47uF 10%	10V

1-687-132-12	SENSOR BOARD		

< CONNECTOR >			
CN731	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE) 3P	
< IC >			
IC731	6-600-564-01	IC RPI-579N1	

SP-TERMINAL

SP TERM(SURR,CENT,SW)

SUB-TRANS

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		SP-TERMINAL BOARD *****				< COIL >	
		< CAPACITOR >					
C417	1-137-389-11	MYLAR 0.0022uF 5%	100V (RU)	L443	1-422-009-13	COIL, AIR-CORE (GZR9D)	
C418	1-137-389-11	MYLAR 0.0022uF 5%	100V (RU)	L541	1-422-009-13	COIL, AIR-CORE	
C419	1-164-156-11	CERAMIC CHIP 0.1uF	25V (RU)	L542	1-422-009-13	COIL, AIR-CORE	
C420	1-164-156-11	CERAMIC CHIP 0.1uF	25V (RU)	L543	1-422-009-13	COIL, AIR-CORE	
		< CONNECTOR >				< RESISTOR >	
CN447	1-691-770-11	PLUG (MICRO CONNECTOR) 8P		R484	1-216-797-11	METAL CHIP 10 5%	1/10W (GZR9D)
		< TERMINAL BOARD >		R485	1-216-797-11	METAL CHIP 10 5%	1/10W (GZR9D)
JK402	1-694-785-11	TERMINAL BOARD (4P) (FRONT SPEAKER) (EXCEPT RU)		R487	1-216-797-11	METAL CHIP 10 5%	1/10W (GZR9D)
JK402	1-694-785-21	TERMINAL BOARD (4P) (FRONT SPEAKER) (RU)		R488	1-216-797-11	METAL CHIP 10 5%	1/10W (GZR9D)
		< COIL >		R545	1-216-797-11	METAL CHIP 10 5%	1/10W
L445	1-422-009-13	COIL, AIR-CORE (EXCEPT EA)		R546	1-216-797-11	METAL CHIP 10 5%	1/10W
L445	1-420-872-52	COIL, AIR-CORE (EA)		R547	1-216-797-11	METAL CHIP 10 5%	1/10W
L446	1-422-009-13	COIL, AIR-CORE (EXCEPT EA)		R548	1-216-797-11	METAL CHIP 10 5%	1/10W
L446	1-420-872-52	COIL, AIR-CORE (EA)		R549	1-216-797-11	METAL CHIP 10 5%	1/10W
		< RESISTOR >		R550	1-216-797-11	METAL CHIP 10 5%	1/10W
R478	1-216-797-11	METAL CHIP 10 5%	1/10W	R551	1-216-797-11	METAL CHIP 10 5%	1/10W
R479	1-216-797-11	METAL CHIP 10 5%	1/10W	R552	1-216-797-11	METAL CHIP 10 5%	1/10W
R480	1-216-797-11	METAL CHIP 10 5%	1/10W	R560	1-216-797-11	METAL CHIP 10 5%	1/10W
R481	1-216-797-11	METAL CHIP 10 5%	1/10W	R564	1-216-797-11	METAL CHIP 10 5%	1/10W
R482	1-216-797-11	METAL CHIP 10 5%	1/10W	R570	1-216-797-11	METAL CHIP 10 5%	1/10W
R483	1-216-797-11	METAL CHIP 10 5%	1/10W	R571	1-216-797-11	METAL CHIP 10 5%	1/10W
R486	1-216-797-11	METAL CHIP 10 5%	1/10W	*****			
R489	1-216-797-11	METAL CHIP 10 5%	1/10W			SUB-TRANS BOARD *****	
*****						< CONNECTOR >	
		SP TERM(SURR,CENT,SW) BOARD (GZR8D/GZR9D) *****		* CN901	1-695-044-11	PIN, CONNECTOR (3.96mm PITCH) 2P	
		< CAPACITOR >		CN911	1-564-507-11	PLUG, CONNECTOR 4P	
C415	1-137-389-11	MYLAR 0.0022uF 5%	100V (RU)			< DIODE >	
C561	1-137-389-11	MYLAR 0.0022uF 5%	100V (RU)	D901	6-501-817-01	DIODE MA2J1110GLS0	
C562	1-137-389-11	MYLAR 0.0022uF 5%	100V (RU)			< TRANSFORMER >	
C563	1-137-389-11	MYLAR 0.0022uF 5%	100V (RU)	△ PT902	1-443-615-21	TRANSFORMER, POWER (SUB) (RU)	
		< CONNECTOR >		△ PT902	1-445-402-21	TRANSFORMER, POWER (SUB) (EA)	
CN448	1-564-507-11	PLUG, CONNECTOR 4P (GZR9D)		△ PT902	1-445-413-11	TRANSFORMER, POWER (SUB)	(EXCEPT EA,RU)
CN544	1-564-509-11	PLUG, CONNECTOR 6P				< RESISTOR >	
		< TERMINAL BOARD >		R910	1-216-801-11	METAL CHIP 22 5%	1/10W
JK401	1-780-635-11	TERMINAL BOARD (2P) (SUBWOOFER) (GZR9D)				< RELAY >	
JK501	1-780-636-11	TERMINAL BOARD (6P) (SURROUND SPEAKER L/R,CENTER SPEAKER)		△ RY901	1-755-334-11	RELAY, AC POWER	
						< SWITCH >	
				△ S901	1-786-055-31	SELECTOR, VOLTAGE (VOLTAGE SELECTOR) (EXCEPT RU,TH,AUS,AR)	

HCD-GZR7D/GZR8D/GZR9D

Ver. 1.1

SURR & CENT AMP

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-1488-059-A	SURR & CENT AMP BOARD, COMPLETE (GZR9D:EXCEPT EA)		Q508	6-551-268-01	TRANSISTOR 2SC5625	
	A-1548-113-A	SURR & CENT AMP BOARD, COMPLETE (GZR9D:EA)		Q509	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
	A-1550-916-A	SURR & CENT AMP BOARD, COMPLETE (GZR8D:EXCEPT EA)				< RESISTOR >	
	A-1550-918-A	SURR & CENT AMP BOARD, COMPLETE (GZR8D:EA)		R501	1-216-845-11	METAL CHIP 100K	5% 1/10W
		*****		R502	1-216-845-11	METAL CHIP 100K	5% 1/10W
				R503	1-216-806-11	METAL CHIP 56	5% 1/10W
				R504	1-216-806-11	METAL CHIP 56	5% 1/10W
				R505	1-216-806-11	METAL CHIP 56	5% 1/10W
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3		R506	1-216-806-11	METAL CHIP 56	5% 1/10W
		< CAPACITOR >		R507	1-216-833-11	METAL CHIP 10K	5% 1/10W
C501	1-136-497-81	FILM 0.1uF	5% 50V	R508	1-216-829-11	METAL CHIP 4.7K	5% 1/10W
C502	1-136-497-81	FILM 0.1uF	5% 50V	△ R509	1-220-893-11	METAL 0.22	10% 5W F
C503	1-135-515-21	ELECT 3300uF	20% 50V	△ R510	1-220-893-11	METAL 0.22	10% 5W F
C504	1-135-515-21	ELECT 3300uF	20% 50V				
C505	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	R511	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
C511	1-126-964-11	ELECT 10uF	20% 50V	R512	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
C512	1-126-964-11	ELECT 10uF	20% 50V	R513	1-216-841-11	METAL CHIP 47K	5% 1/10W
C517	1-126-967-11	ELECT 47uF	20% 50V	R514	1-216-841-11	METAL CHIP 47K	5% 1/10W
C518	1-126-967-11	ELECT 47uF	20% 50V	R515	1-216-841-11	METAL CHIP 47K	5% 1/10W
C519	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	R516	1-216-841-11	METAL CHIP 47K	5% 1/10W
C520	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	R517	1-218-289-11	METAL CHIP 510	5% 1/10W (GZR9D)
C521	1-126-964-11	ELECT 10uF	20% 50V				
C522	1-164-315-11	CERAMIC CHIP 470PF	5% 50V	R518	1-220-373-11	METAL CHIP 620	5% 1/10W (GZR8D)
C523	1-126-967-11	ELECT 47uF	20% 50V				
C526	1-126-967-11	ELECT 47uF	20% 50V	R518	1-218-289-11	METAL CHIP 510	5% 1/10W (GZR9D)
C527	1-126-967-11	ELECT 47uF	20% 50V				
C528	1-126-965-11	ELECT 22uF	20% 50V	R518	1-220-373-11	METAL CHIP 620	5% 1/10W (GZR8D)
C529	1-104-658-11	ELECT 100uF	20% 10V				
C531	1-136-497-81	FILM 0.1uF	5% 50V	R519	1-218-289-11	METAL CHIP 510	5% 1/10W (GZR9D)
C532	1-136-497-81	FILM 0.1uF	5% 50V	△ R520	1-220-893-11	METAL 0.22	10% 5W F
C533	1-136-497-81	FILM 0.1uF	5% 50V	R521	1-216-825-11	METAL CHIP 2.2K	5% 1/10W
C534	1-136-497-81	FILM 0.1uF	5% 50V	R522	1-216-841-11	METAL CHIP 47K	5% 1/10W
C535	1-136-497-81	FILM 0.1uF	5% 50V	R523	1-216-819-11	METAL CHIP 680	5% 1/10W (GZR9D)
C536	1-136-497-81	FILM 0.1uF	5% 50V				
C544	1-164-315-11	CERAMIC CHIP 470PF	5% 50V	R523	1-218-484-11	METAL CHIP 750	5% 1/10W (GZR8D)
C547	1-162-927-11	CERAMIC CHIP 100PF	5% 50V	R524	1-216-841-11	METAL CHIP 47K	5% 1/10W
C589	1-164-315-11	CERAMIC CHIP 470PF	5% 50V	R525	1-216-821-11	METAL CHIP 1K	5% 1/10W
		< CONNECTOR >		R527	1-216-839-11	METAL CHIP 33K	5% 1/10W
CN541	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P		R528	1-216-845-11	METAL CHIP 100K	5% 1/10W
		< DIODE >		R535	1-216-842-11	METAL CHIP 56K	5% 1/10W
D501	6-500-360-01	DIODE D10XB20		R536	1-216-841-11	METAL CHIP 47K	5% 1/10W
D503	6-501-817-01	DIODE MA2J1110GLS0		R537	1-216-841-11	METAL CHIP 47K	5% 1/10W
D505	6-501-817-01	DIODE MA2J1110GLS0		R539	1-216-797-11	METAL CHIP 10	5% 1/10W
D506	6-501-817-01	DIODE MA2J1110GLS0		R540	1-216-797-11	METAL CHIP 10	5% 1/10W
D508	6-501-817-01	DIODE MA2J1110GLS0					
D541	6-500-334-01	DIODE MC2836-T112-1		R541	1-216-797-11	METAL CHIP 10	5% 1/10W
		< IC >		R542	1-216-797-11	METAL CHIP 10	5% 1/10W
IC501	6-600-673-01	IC STK433-260A-E		R543	1-216-797-11	METAL CHIP 10	5% 1/10W
		< TRANSISTOR >		R544	1-216-797-11	METAL CHIP 10	5% 1/10W
Q501	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF		R553	1-216-837-11	METAL CHIP 22K	5% 1/10W
Q504	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		△ R554	1-246-155-61	FUSIBLE 1	5% 1/4W F
Q505	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF		△ R555	1-246-163-61	FUSIBLE 100	5% 1/4W F
Q506	6-551-268-01	TRANSISTOR 2SC5625		△ R556	1-246-163-61	FUSIBLE 100	5% 1/4W F
Q507	6-551-268-01	TRANSISTOR 2SC5625		R557	1-216-821-11	METAL CHIP 1K	5% 1/10W
				R558	1-216-821-11	METAL CHIP 1K	5% 1/10W
				R559	1-216-837-11	METAL CHIP 22K	5% 1/10W
				R561	1-216-845-11	METAL CHIP 100K	5% 1/10W
				R562	1-216-845-11	METAL CHIP 100K	5% 1/10W
				R563	1-216-839-11	METAL CHIP 33K	5% 1/10W
				R565	1-216-837-11	METAL CHIP 22K	5% 1/10W
				R566	1-216-839-11	METAL CHIP 33K	5% 1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R567	1-216-821-11	METAL CHIP 1K	5% 1/10W	C454	1-130-481-00	MYLAR 0.0068uF	5% 50V
R568	1-216-839-11	METAL CHIP 33K	5% 1/10W	C456	1-130-483-00	MYLAR 0.01uF	5% 50V
R569	1-216-845-11	METAL CHIP 100K	5% 1/10W	C461	1-164-315-11	CERAMIC CHIP 470PF	5% 50V
		< RELAY >		C462	1-164-315-11	CERAMIC CHIP 470PF	5% 50V
				C466	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V
						< CONNECTOR >	
RY541	1-755-307-21	RELAY		CN008	1-568-830-11	CONNECTOR, FFC 11P	
RY542	1-755-307-21	RELAY		CN301	1-815-444-11	PIN, CONNECTOR (PWB) 3P	
*****				CN302	1-815-449-11	PIN, CONNECTOR (PWB) 8P	
	1-687-669-12	SW BOARD				< DIODE >	

		< SWITCH >		D301	6-501-165-01	DIODE UDZW-TE17-4.3B	
S751	1-786-514-11	SWITCH, LEVER (SLIDE)		D401	6-500-335-01	DIODE MC2838-T112-1	
		(OPEN/CLOSE DETECT)				< IC >	
*****				IC301	6-702-945-01	IC NJM14558V-TE2	
		TC BOARD		IC401	8-759-278-58	IC NJM4558V-TE2	
		*****				< JUMPER RESISTOR >	
		< CAPACITOR >		JR301	1-216-864-11	SHORT CHIP 0	
C301	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	JR302	1-216-864-11	SHORT CHIP 0	
C302	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V	JR303	1-216-864-11	SHORT CHIP 0	
C303	1-162-962-11	CERAMIC CHIP 470PF	10% 50V	JR304	1-216-864-11	SHORT CHIP 0	
C304	1-162-962-11	CERAMIC CHIP 470PF	10% 50V	JR305	1-216-864-11	SHORT CHIP 0	
C315	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	JR306	1-216-864-11	SHORT CHIP 0	
C316	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	JR307	1-216-864-11	SHORT CHIP 0	
C317	1-126-965-11	ELECT 22uF	20% 50V	JR308	1-216-864-11	SHORT CHIP 0	
C318	1-126-965-11	ELECT 22uF	20% 50V	JR309	1-216-864-11	SHORT CHIP 0	
C323	1-162-969-11	CERAMIC CHIP 0.0068uF	10% 25V	JR310	1-216-864-11	SHORT CHIP 0	
C324	1-162-969-11	CERAMIC CHIP 0.0068uF	10% 25V	JR311	1-216-864-11	SHORT CHIP 0	
C327	1-162-960-11	CERAMIC CHIP 220PF	10% 50V	JR313	1-216-864-11	SHORT CHIP 0	
C328	1-162-960-11	CERAMIC CHIP 220PF	10% 50V	JR315	1-216-864-11	SHORT CHIP 0	
C329	1-131-688-31	FILM 0.047uF	5% 50V	JR316	1-216-864-11	SHORT CHIP 0	
C330	1-131-688-31	FILM 0.047uF	5% 50V	JR317	1-216-864-11	SHORT CHIP 0	
C350	1-126-934-11	ELECT 220uF	20% 16V	JR318	1-216-864-11	SHORT CHIP 0	
C351	1-126-923-11	ELECT 220uF	20% 10V	JR319	1-216-864-11	SHORT CHIP 0	
C352	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V	JR320	1-216-864-11	SHORT CHIP 0	
C353	1-107-826-11	CERAMIC CHIP 0.1uF	10% 16V			< TRANSISTOR >	
C354	1-164-156-11	CERAMIC CHIP 0.1uF	25V	Q301	6-551-597-01	FET 2SJ461-T	
C355	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	Q302	6-551-597-01	FET 2SJ461-T	
C356	1-126-964-11	ELECT 10uF	20% 50V	Q303	8-729-045-62	FET 2SK2158-T2B	
C401	1-126-956-11	ELECT 0.1uF	20% 50V	Q304	8-729-045-62	FET 2SK2158-T2B	
C402	1-126-956-11	ELECT 0.1uF	20% 50V	Q305	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
C403	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	Q306	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
C404	1-162-923-11	CERAMIC CHIP 47PF	5% 50V	Q401	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
C405	1-162-959-11	CERAMIC CHIP 330PF	5% 50V	Q402	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
C406	1-162-959-11	CERAMIC CHIP 330PF	5% 50V	Q403	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
C409	1-126-964-11	ELECT 10uF	20% 50V	Q404	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
C410	1-126-964-11	ELECT 10uF	20% 50V	Q405	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
C411	1-162-915-11	CERAMIC CHIP 10PF	0.5PF 50V	Q406	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
C412	1-162-915-11	CERAMIC CHIP 10PF	0.5PF 50V	Q407	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
C413	1-162-960-11	CERAMIC CHIP 220PF	10% 50V	Q408	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
C414	1-162-960-11	CERAMIC CHIP 220PF	10% 50V	Q409	8-729-027-43	TRANSISTOR DTC114EKA-T146	
C416	1-162-968-11	CERAMIC CHIP 0.0047uF	10% 50V	Q410	6-551-276-01	TRANSISTOR RT1N431C-TP-1	
C417	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	Q453	8-729-036-86	TRANSISTOR KTC3203Y-AT	
C418	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V	Q454	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
C430	1-164-156-11	CERAMIC CHIP 0.1uF	25V	Q455	8-729-037-13	TRANSISTOR KTA1271Y	
C433	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V				
C452	1-126-947-11	ELECT 47uF	20% 35V				
C453	1-130-471-00	MYLAR 0.001uF	5% 50V				

HCD-GZR7D/GZR8D/GZR9D

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TC **TRANS**

Ref. No.	Part No.	Description	Remark
< RESISTOR >			
R301	1-216-841-11	METAL CHIP 47K 5%	1/10W
R302	1-216-841-11	METAL CHIP 47K 5%	1/10W
R303	1-216-841-11	METAL CHIP 47K 5%	1/10W
R304	1-216-841-11	METAL CHIP 47K 5%	1/10W
R305	1-216-849-11	METAL CHIP 220K 5%	1/10W
R306	1-216-849-11	METAL CHIP 220K 5%	1/10W
R307	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R308	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R309	1-216-817-11	METAL CHIP 470 5%	1/10W
R310	1-216-817-11	METAL CHIP 470 5%	1/10W
R311	1-216-813-11	METAL CHIP 220 5%	1/10W
R312	1-216-813-11	METAL CHIP 220 5%	1/10W
R313	1-216-805-11	METAL CHIP 47 5%	1/10W
R314	1-216-805-11	METAL CHIP 47 5%	1/10W
R315	1-216-809-11	METAL CHIP 100 5%	1/10W
R316	1-216-809-11	METAL CHIP 100 5%	1/10W
R317	1-216-853-11	METAL CHIP 470K 5%	1/10W
R318	1-216-853-11	METAL CHIP 470K 5%	1/10W
R319	1-216-835-11	METAL CHIP 15K 5%	1/10W
R320	1-216-835-11	METAL CHIP 15K 5%	1/10W
R321	1-216-809-11	METAL CHIP 100 5%	1/10W
R322	1-216-809-11	METAL CHIP 100 5%	1/10W
R323	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R324	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R325	1-216-809-11	METAL CHIP 100 5%	1/10W
R326	1-216-809-11	METAL CHIP 100 5%	1/10W
R349	1-216-809-11	METAL CHIP 100 5%	1/10W
R350	1-216-864-11	SHORT CHIP 0	
R351	1-216-821-11	METAL CHIP 1K 5%	1/10W
R401	1-216-841-11	METAL CHIP 47K 5%	1/10W
R402	1-216-841-11	METAL CHIP 47K 5%	1/10W
R403	1-216-839-11	METAL CHIP 33K 5%	1/10W
R404	1-216-839-11	METAL CHIP 33K 5%	1/10W
R405	1-216-842-11	METAL CHIP 56K 5%	1/10W
R406	1-216-842-11	METAL CHIP 56K 5%	1/10W
R407	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
R408	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
R411	1-216-853-11	METAL CHIP 470K 5%	1/10W
R412	1-216-853-11	METAL CHIP 470K 5%	1/10W
R413	1-216-849-11	METAL CHIP 220K 5%	1/10W
R414	1-216-849-11	METAL CHIP 220K 5%	1/10W
R423	1-216-847-11	METAL CHIP 150K 5%	1/10W
R424	1-216-847-11	METAL CHIP 150K 5%	1/10W
R427	1-216-797-11	METAL CHIP 10 5%	1/10W
R428	1-216-797-11	METAL CHIP 10 5%	1/10W
R429	1-216-833-11	METAL CHIP 10K 5%	1/10W
R430	1-216-833-11	METAL CHIP 10K 5%	1/10W
R431	1-216-821-11	METAL CHIP 1K 5%	1/10W
R432	1-216-821-11	METAL CHIP 1K 5%	1/10W
R433	1-216-841-11	METAL CHIP 47K 5%	1/10W
R434	1-216-841-11	METAL CHIP 47K 5%	1/10W
R435	1-216-833-11	METAL CHIP 10K 5%	1/10W
R436	1-216-833-11	METAL CHIP 10K 5%	1/10W
R437	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R438	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R440	1-216-833-11	METAL CHIP 10K 5%	1/10W
R441	1-216-864-11	SHORT CHIP 0	
R442	1-216-841-11	METAL CHIP 47K 5%	1/10W
R443	1-216-845-11	METAL CHIP 100K 5%	1/10W

Ref. No.	Part No.	Description	Remark
R444	1-216-833-11	METAL CHIP 10K 5%	1/10W
R449	1-216-793-11	METAL CHIP 4.7 5%	1/10W
R450	1-216-864-11	SHORT CHIP 0	
R451	1-216-833-11	METAL CHIP 10K 5%	1/10W
R452	1-216-841-11	METAL CHIP 47K 5%	1/10W
R453	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R454	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R455	1-216-797-11	METAL CHIP 10 5%	1/10W
R456	1-216-864-11	SHORT CHIP 0	
R457	1-216-835-11	METAL CHIP 15K 5%	1/10W
R458	1-216-793-11	METAL CHIP 4.7 5%	1/10W
R459	1-216-864-11	SHORT CHIP 0	
R461	1-216-813-11	METAL CHIP 220 5%	1/10W
R462	1-216-813-11	METAL CHIP 220 5%	1/10W
R463	1-216-864-11	SHORT CHIP 0	
R464	1-216-864-11	SHORT CHIP 0	
R481	1-216-833-11	METAL CHIP 10K 5%	1/10W
R482	1-216-841-11	METAL CHIP 47K 5%	1/10W
R483	1-216-864-11	SHORT CHIP 0	
R484	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
R486	1-216-864-11	SHORT CHIP 0	
R487	1-216-864-11	SHORT CHIP 0	
< TRANSFORMER >			
T001	1-443-760-11	TRANSFORMER, BIAS OSCILLATION	

TRANS BOARD			

	1-533-217-41	HOLDER, FUSE	
< CAPACITOR >			
C905	1-136-165-00	FILM 0.1uF 5%	50V
C906	1-136-165-00	FILM 0.1uF 5%	50V
C907	1-136-497-81	FILM 0.1uF 5%	50V
C908	1-128-553-11	ELECT 220uF 20%	63V
C909	1-126-964-11	ELECT 10uF 20%	50V
C910	1-126-968-11	ELECT 100uF 20%	50V
C911	1-126-942-61	ELECT 1000uF 20%	25V
C914	1-126-962-11	ELECT 3.3uF 20%	50V
C914	1-126-963-11	ELECT 4.7uF 20%	50V (GZR7D/GZR9D) (GZR8D)
< CONNECTOR >			
* CN907	1-764-334-11	PLUG, CONNECTOR 11P	
< DIODE >			
D902	6-500-522-21	DIODE 10EDB40-TB3	
D903	6-500-522-21	DIODE 10EDB40-TB3	
D904	6-500-522-21	DIODE 10EDB40-TB3	
D905	6-500-522-21	DIODE 10EDB40-TB3	
D906	6-501-792-01	DIODE MAZ8300GMLS0	
D907	6-502-467-01	DIODE D20XB80-LF7003	
D908	6-500-522-21	DIODE 10EDB40-TB3	
D910	6-500-335-01	DIODE MC2838-T112-1	
D911	6-500-522-21	DIODE 10EDB40-TB3 (GZR9D)	
< TRANSISTOR >			
Q902	8-729-048-66	TRANSISTOR 2SB1238-PQR-TV2	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
Q903	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF				C906	1-126-965-11	ELECT	22uF	20%	50V
		< RESISTOR >				C907	1-126-960-11	ELECT	1uF	20%	50V
R903	1-216-833-11	METAL CHIP 10K	5%	1/10W		C908	1-126-960-11	ELECT	1uF	20%	50V
R904	1-216-821-11	METAL CHIP 1K	5%	1/10W		C909	1-126-960-11	ELECT	1uF	20%	50V
△ R908	1-246-155-61	FUSIBLE 1	5%	1/4W F		C910	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R912	1-216-837-11	METAL CHIP 22K	5%	1/10W		C911	1-104-658-11	ELECT	100uF	20%	10V
R913	1-216-841-11	METAL CHIP 47K	5%	1/10W		C912	1-126-956-11	ELECT	0.1uF	20%	50V
R914	1-216-832-11	METAL CHIP 8.2K	5%	1/10W	(EXCEPT RU)	C914	1-126-916-11	ELECT	1000uF	20%	6.3V
R914	1-216-833-11	METAL CHIP 10K	5%	1/10W	(RU)	C915	1-126-916-11	ELECT	1000uF	20%	6.3V
R915	1-216-829-11	METAL CHIP 4.7K	5%	1/10W		C916	1-126-916-11	ELECT	1000uF	20%	6.3V

USB BOARD											

		< CAPACITOR >				C917	1-126-916-11	ELECT	1000uF	20%	6.3V
C802	1-126-176-11	ELECT 220uF	20%	10V		C918	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C803	1-165-989-11	CERAMIC CHIP 10uF	10%	6.3V		C919	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
		< CONNECTOR >				C920	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
CN804	1-819-866-11	CONNECTOR, USB (A) 4P (USB)				C921	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
		< DIODE >				C923	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
D801	8-719-083-57	DIODE UDZSNPTE-173.6B (EXCEPT EA,RU)				C924	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
D802	8-719-083-57	DIODE UDZSNPTE-173.6B (EXCEPT EA,RU)				C926	1-126-960-11	ELECT	1uF	20%	50V
D803	6-502-315-01	LED 1L544GB12E0CKTZ1				C927	1-126-960-11	ELECT	1uF	20%	50V
		(USB ILLUMINATOR (BLUE))				C928	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
D804	6-502-315-01	LED 1L544GB12E0CKTZ1				C929	1-126-933-11	ELECT	100uF	20%	16V
		(USB ILLUMINATOR (BLUE))				C930	1-126-916-11	ELECT	1000uF	20%	6.3V
D805	6-501-691-01	LED 1L434FV22D0TDF01									
		(USB ILLUMINATOR (RED))									
D806	6-501-691-01	LED 1L434FV22D0TDF01									
		(USB ILLUMINATOR (RED))									
D807	8-719-058-24	DIODE RB501V-40TE-17									
D808	8-719-058-24	DIODE RB501V-40TE-17									
D809	8-719-109-69	DIODE RD3.6ESB2 (EA,RU)									
D810	8-719-109-69	DIODE RD3.6ESB2 (EA,RU)									
		< JUMPER RESISTOR >				IC901	6-710-470-01	IC MM1758AFBE			
JR852	1-216-864-11	SHORT CHIP 0				IC902	6-703-622-01	IC MM1508XNRE			
JR853	1-216-864-11	SHORT CHIP 0									
		< RESISTOR >									
R801	1-216-813-11	METAL CHIP 220	5%	1/10W							
R802	1-216-813-11	METAL CHIP 220	5%	1/10W							
R803	1-216-817-11	METAL CHIP 470	5%	1/10W							
R804	1-216-817-11	METAL CHIP 470	5%	1/10W							
R805	1-216-789-11	METAL CHIP 2.2	5%	1/10W							
R806	1-216-789-11	METAL CHIP 2.2	5%	1/10W							

VIDEO BOARD											

		< CAPACITOR >									
C902	1-126-960-11	ELECT 1uF	20%	50V							
C903	1-126-960-11	ELECT 1uF	20%	50V							
C904	1-126-960-11	ELECT 1uF	20%	50V							
C905	1-107-826-11	CERAMIC CHIP 0.1uF	10%	16V							
		< CONNECTOR >									
J901	1-793-483-11	JACK, PHONO 3P (COMPONENT VIDEO OUT)									
J902	1-785-867-11	JACK, PIN 1P (VIDEO OUT)									
J903	1-785-867-11	JACK, PIN 1P (VIDEO/SAT (VIDEO IN))									
		< CONNECTOR >									
J904	1-784-248-11	CONNECTOR (ROUND TYPE) 5P (S VIDEO OUT)									
		< JUMPER RESISTOR >									
JR901	1-216-864-11	SHORT CHIP 0									
JR902	1-216-864-11	SHORT CHIP 0									
		< COIL >									
L901	1-412-058-11	INDUCTOR 10uH									
		< RESISTOR >									
R901	1-216-809-11	METAL CHIP 100	5%	1/10W							
R902	1-216-809-11	METAL CHIP 100	5%	1/10W							
R903	1-216-833-11	METAL CHIP 10K	5%	1/10W							

HCD-GZR7D/GZR8D/GZR9D

Ver. 1.1

VIDEO **VOLUME**

Ref. No.	Part No.	Description	Remark
R904	1-218-285-11	METAL CHIP 75 5%	1/10W
R905	1-218-285-11	METAL CHIP 75 5%	1/10W
R906	1-218-285-11	METAL CHIP 75 5%	1/10W
R907	1-218-285-11	METAL CHIP 75 5%	1/10W
R909	1-218-285-11	METAL CHIP 75 5%	1/10W
R910	1-218-285-11	METAL CHIP 75 5%	1/10W
R911	1-216-833-11	METAL CHIP 10K 5%	1/10W
R912	1-216-809-11	METAL CHIP 100 5%	1/10W
R913	1-218-285-11	METAL CHIP 75 5%	1/10W
R914	1-218-285-11	METAL CHIP 75 5%	1/10W
R915	1-218-285-11	METAL CHIP 75 5%	1/10W

VOLUME BOARD			

< CAPACITOR >			
C651	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C652	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
< RESISTOR >			
R615	1-216-833-11	METAL CHIP 10K 5%	1/10W
R767	1-216-845-11	METAL CHIP 100K 5%	1/10W
R768	1-216-841-11	METAL CHIP 47K 5%	1/10W
R769	1-216-837-11	METAL CHIP 22K 5%	1/10W
R770	1-216-837-11	METAL CHIP 22K 5%	1/10W
< SWITCH >			
S615	1-786-289-11	SWITCH, DETECTION	(OPERATION DIAL ◀◀ -/+ ▶▶)
< ROTARY ENCODER >			
S651	1-480-109-11	ENCODER, ROTARY (MASTER VOLUME)	

MISCELLANEOUS			

62	1-417-657-13	MECHA DECK	
63	1-831-928-21	CABLE, FLEXIBLE FLAT (11 CORE)	
116	1-500-933-11	CORE, FERRITE	
118	1-832-916-21	CABLE, FLEXIBLE FLAT (29 CORE)	
152	1-543-798-11	FILTER, CLAMP (FERRITE CORE) (EA,RU,AUS)	
201	1-832-053-21	CABLE, FLEXIBLE FLAT (9 CORE)	
202	1-831-786-21	CABLE, FLEXIBLE FLAT (13 CORE)	
206	1-832-434-21	CABLE, FLEXIBLE FLAT (11 CORE)	
△ 212	1-569-008-22	ADAPTOR, CONVERSION 2P (E2,E3,E15,PH,SP)	
△ 213	1-829-387-11	CORD, POWER (AR)	
△ 213	1-834-288-21	POWER-SUPPLY CORD (TH)	
△ 213	1-834-966-11	CORD, POWER (EXCEPT TH,AUS,AR)	
△ 213	1-834-967-11	CORD, POWER (AUS)	
251	1-481-362-11	CORE, FERRITE	
253	1-832-620-21	CABLE, FLEXIBLE FLAT (21 CORE)	(GZR8D/GZR9D)
253	1-832-630-21	CABLE, FLEXIBLE FLAT (23 CORE) (GZR7D)	
257	1-832-589-21	CABLE, FLEXIBLE FLAT (15 CORE)	
302	1-776-182-11	WIRE (FLAT TYPE) (5 CORE)	
370	1-828-252-51	CABLE, FLEXIBLE FLAT (24 CORE)	
△ 371	8-820-322-04	OPTICAL PICK-UP (KHM-313CAB/C2RP)	
△ F904	1-532-506-33	FUSE (T6.3AL/250V) (GZR7D)	
△ F904	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)	(GZR8D)

Ref. No.	Part No.	Description	Remark
△ F904	1-576-332-33	FUSE, CYLINDRICAL (TIME LUG) (T10AL/250V)	(GZR9D)
△ F905	1-532-506-33	FUSE (T6.3AL/250V) (GZR7D)	
△ F905	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)	(GZR8D)
△ F905	1-576-332-33	FUSE, CYLINDRICAL (TIME LUG) (T10AL/250V)	(GZR9D)
△ F906	1-532-505-33	FUSE (T5AL/250V)	
△ F907	1-532-465-33	FUSE (T3.15AL/250V)	
△ F908	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)	(GZR7D/GZR8D)
△ F908	1-576-332-33	FUSE, CYLINDRICAL (TIME LUG) (T10AL/250V)	(GZR9D)
△ F909	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)	(GZR7D/GZR8D)
△ F909	1-576-332-33	FUSE, CYLINDRICAL (TIME LUG) (T10AL/250V)	(GZR9D)
FAN901	1-787-400-11	D.C. FAN (GZR7D)	
FAN901	1-787-400-31	FAN (DC) (GZR8D/GZR9D)	
FAN902	1-787-400-21	FAN (DC) (GZR8D/GZR9D)	
FC901	1-481-419-11	CORE, FERRITE	
M741	A-1108-965-A	MOTOR ASSY, TABLE (TABLE)	
M751	A-1108-966-A	MOTOR ASSY, LOADING (LOADING)	
△ PT901	1-445-398-11	TRANSFORMER, POWER (MAIN)	(GZR9D:EXCEPT EA,RU)
△ PT901	1-445-398-21	TRANSFORMER, POWER (MAIN) (GZR9D:EA)	
△ PT901	1-445-400-11	TRANSFORMER, POWER (MAIN)	(GZR7D:EXCEPT EA,RU)
△ PT901	1-445-400-21	TRANSFORMER, POWER (MAIN) (GZR7D:EA)	
△ PT901	1-445-401-11	TRANSFORMER, POWER (MAIN) (GZR7D:RU)	
△ PT901	1-445-403-11	TRANSFORMER, POWER (MAIN) (GZR9D:RU)	
△ PT901	1-445-405-11	TRANSFORMER, POWER (MAIN)	(GZR8D:EXCEPT EA)
△ PT901	1-445-405-21	TRANSFORMER, POWER (MAIN) (GZR8D:EA)	
RE701	1-477-680-12	ENCODER, ROTARY	(DISC TRAY ADDRESS DETECT)
TM901	1-693-760-11	TUNER (FM/AM) (ANTENNA) (RU)	
TM901	1-693-761-11	TUNER (FM/AM) (ANTENNA) (EXCEPT RU)	

MEMO

