

HCD-GTX777/GTX787/GTX888

SERVICE MANUAL

Ver. 1.1 2008. 05

AEP Model
HCD-GTX777

E Model
HCD-GTX777/GTX787/GTX888

Australian Model
HCD-GTX888



Photo : HCD-GTX888 (E Model)

- HCD-GTX777/GTX787/GTX888 are the tuner, deck, CD and amplifier section in MHC-GTX777/GTX787/GTX888.

CD Section	Model Name Using Similar Mechanism	HCD-GTX66/GTX77/GTX88
	CD Mechanism Type	CDM74KF-K6BD93-WOD//M
	Optical Pick-up Name	KSM-213DCP/C2NP
Tape Deck	Model Name Using Similar Mechanism	NEW
Section	Tape Mechanism Type	CFP42608

SPECIFICATIONS

AUDIO POWER SPECIFICATION

Amplifier section MHC-GTX888 (HCD-GTX888)

The following are measured at
Mexican model: AC 127 V, 60 Hz
Other models: AC 120, 220, 230 – 240 V, 50/60 Hz

Front/Surround speaker
Power Output (rated): 190 W + 190 W (at 8 Ω and 24 Ω , 1 kHz, 1% THD, at LINK MODE)
RMS output power (reference): 295 W + 295 W (per channel at 8 Ω and 24 Ω , 1 kHz, 10% THD, at LINK MODE)

Subwoofer
RMS output power (reference): 160 W + 160 W (per channel at 6 Ω , 100 Hz, 10% THD)

MHC-GTX787 (HCD-GTX787)

The following are measured at
Mexican model: AC 127 V, 60 Hz
Other models: AC 120, 220, 230 – 240 V, 50/60 Hz

Front speaker
Power Output (rated): 230 W + 230 W (at 4 Ω , 1 kHz, 1% THD)
RMS output power (reference): 380 W + 380 W (per channel at 4 Ω , 1 kHz, 10% THD)

MHC-GTX777 (HCD-GTX777)

European model only
The following are measured at
AC 230 V, 50/60 Hz

Front/Surround speaker
Power Output (rated): 235 W + 235 W (at 8 Ω and 8 Ω , 1 kHz, 1% THD, at LINK MODE)
RMS output power (reference): 380 W + 380 W (per channel at 8 Ω and 8 Ω , 1 kHz, 10% THD, at LINK MODE)

– Continued on next page –

CD DECK RECEIVER

HCD-GTX777/GTX787/GTX888

Other models

The following are measured at
AC 120, 220, 230 – 240 V, 50/60 Hz

Front/Surround speaker
Power Output (rated): 235 W + 235 W (at 8 Ω and 8 Ω, 1 kHz,
1% THD, at LINK MODE)
RMS output power (reference):
380 W + 380 W (per channel at 8 Ω and
8 Ω, 1 kHz, 10% THD, at LINK MODE)

Inputs
VIDEO (AUDIO IN) L/R:
Voltage 250 mV, impedance 47 kilohms
AUDIO INPUT L/R: Voltage 450 mV, impedance 47 kilohms
MIC: Sensitivity 1 mV, impedance 10 kilohms
●↪ (USB) port: Type A
Outputs
PHONES: accepts headphones of 8 Ω or more

Disc player section

System Compact disc and digital audio system
Laser Semiconductor laser
(λ = 770 – 810 nm)
Emission duration: continuous
Laser Output Max. 44.6 μW*
* This output is the value measured at
a distance of 200 mm from the
objective lens surface on the Optical
Pick-up Block with 7 mm aperture.
Frequency response 20 Hz – 20 kHz
Wave length 770 – 810 nm
Signal-to-noise ratio More than 90 dB
Dynamic range More than 88 dB

Tape deck section

Recording system 4-track 2-channel stereo
Frequency response 50 – 13,000 Hz (±3 dB),
using Sony TYPE I tape
Wow and flutter ±0.35% W.Peak (IEC)
0.3% W.RMS (NAB)
±0.4% W.Peak (DIN)

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range
Brazil model: 87.5 – 108.0 MHz (100 kHz step)
Other models: 87.5 – 108.0 MHz (50 kHz step)
Antenna FM lead antenna
Antenna terminals 75 ohms unbalanced
Intermediate frequency 10.7 MHz

AM tuner section

Tuning range Pan-American and Oceanian models:
530 – 1,710 kHz (with the interval set at 10 kHz)
531 – 1,710 kHz (with the interval set at 9 kHz)
European model: 531 – 1,602 kHz (with the interval set at 9 kHz)
Other models: 531 – 1,602 kHz (with the interval set at 9 kHz)
530 – 1,610 kHz (with the interval set at 10 kHz)
Antenna AM loop antenna
Antenna terminals External antenna terminal
Intermediate frequency 450 kHz

USB section

Supported bit rate MP3 (MPEG 1 Audio Layer 3): 32 – 320 kbps, VBR
WMA: 32 – 192 kbps, VBR 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
Transfer speed Full-Speed
Supported USB device Mass Storage Class
Maximum current 500 mA

General

Power requirements
European model: 230 V AC, 50/60 Hz
Mexican model: 127 V AC, 60 Hz
Oceanian model: 230 – 240 V AC, 50/60 Hz
Argentina models: 220 V AC, 50/60 Hz
Other models: 120 V, 220 V or 230 – 240 V AC, 50/60 Hz,
adjustable with voltage selector
Power consumption MHC-GTX888: 430 W
MHC-GTX787/MHC-GTX777: 300 W
Dimensions (w/h/d) (Approx.)
HCD-GTX888/HCD-GTX787/
HCD-GTX777: 281 × 365 × 454 mm
(11 1/8 × 14 3/8 × 17 7/8 inches)
Mass (Approx.) HCD-GTX888: 14.0 kg (30 lb 14 oz)
HCD-GTX787/HCD-GTX777:
12.0 kg (26 lb 8 oz)
Supplied accessories Remote Commander (1)
R6 (size AA) batteries (2)
AM loop antenna (1)
FM lead antenna (1)
Front speaker pads (8)
Surround speaker pads
(MHC-GTX888/MHC-GTX777 only) (8)
Subwoofer pads (MHC-GTX888 only) (Black) (8)
Speaker cords (MHC-GTX787 only) (2)
Spacer A (MHC-GTX888 only) (2)
Spacer B (MHC-GTX888 only) (2)
Spacer C (MHC-GTX777 only) (2)
Audio cable (1) (Mexico only)

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

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

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 breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

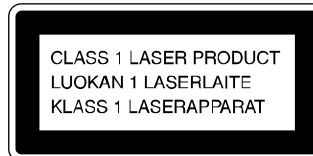
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

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

NOTES ON LASER DIODE EMISSION CHECK

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

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

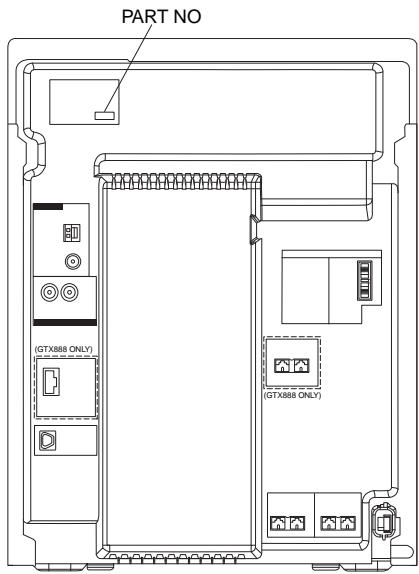


This appliance is classified as a CLASS 1 LASER product. This label is located on the rear exterior.

HCD-GTX777/GTX787/GTX888

MODEL IDENTIFICATION

– MODEL NUMBER LABEL –



- Abbreviation
 - E2 : 120V AC area in E model
 - E3 : Middle Easten, African and Indian model
 - E51 : Chilean and Peruvian model
 - AR : Argentina model
 - AUS : Australian model
 - MX : Mexican model

MODEL	Parts No
GTX888: E2, E51	3-290-078-0□
GTX777: E2, E51	3-290-078-1□
GTX787: E2	3-290-078-2□
GTX777: AEP	3-290-079-1□
GTX888: AR	3-873-456-0□
GTX777: AR	3-873-456-1□
GTX888: AUS	3-873-457-0□
GTX888: E3	3-873-458-0□
GTX777: E3	3-873-458-1□
GTX888: MX	3-873-459-0□
GTX777: MX	3-873-459-1□

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SECTION 1 GENERAL

Note:

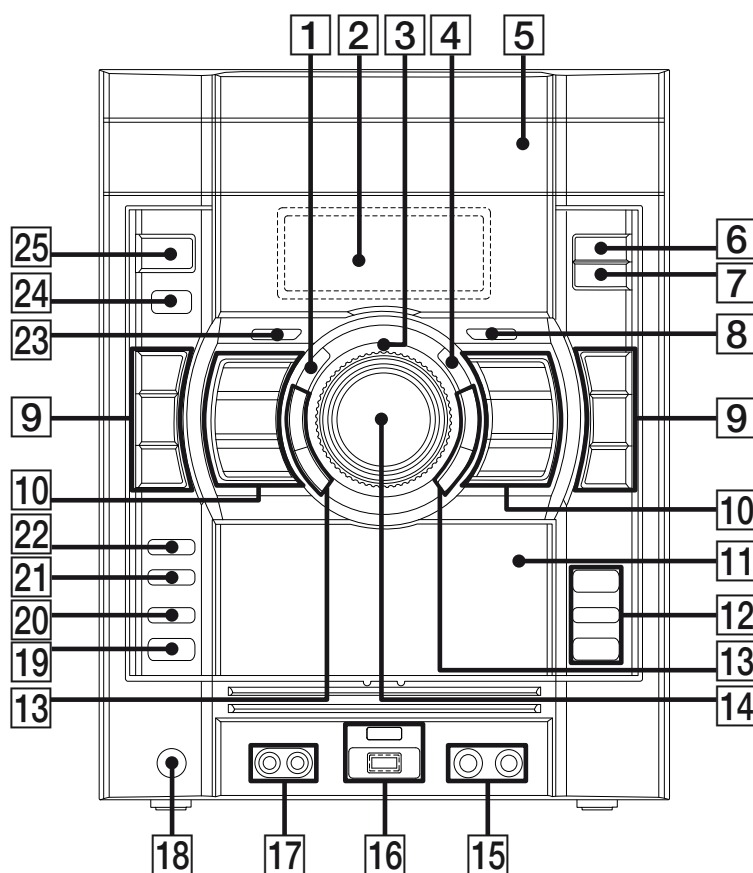
This section is extracted
from instruction manual.

Guide to parts and controls

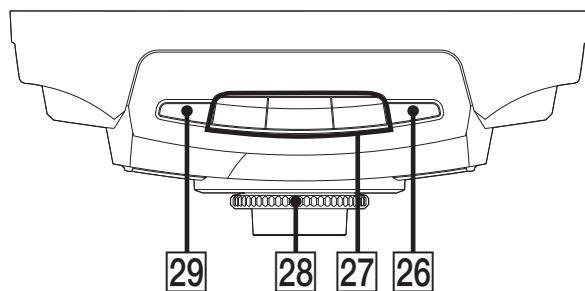
This manual mainly explains operations using the buttons on the unit, but the same operations can also be performed using the buttons on the remote having the same or similar names.

Unit

– Front view

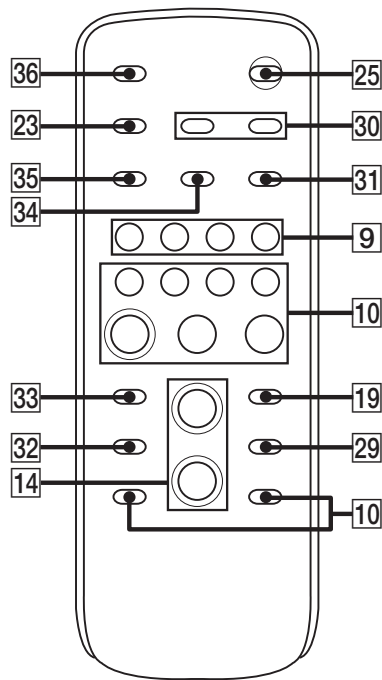


– Top view



Continued 

Remote



- 1** EQ BAND/MEMORY (page 38)
Press to select a frequency band.
- 2** Display (pages 11, 31, 32, 48)
Meter display (page 32)
- 3** Power illuminator (pages 31, 32)
- 4** PRESET EQ (pages 30, 38)
Press to select a preset sound effect.
- 5** Disc tray (pages 11, 20, 43, 48)
- 6** SURROUND SPEAKER MODE (MHC-GTX888 only) (page 30)
Press to select the sound system.

SURROUND
(MHC-GTX787/MHC-GTX777 only) (page 30)
Press to select the surround effect.
- 7** GROOVE (page 30)
Press to reinforce the bass.

- 8** METER MODE (page 32)
Press to select a preset display pattern.
- 9** Function buttons:
CD (pages 15, 20, 24, 32, 33, 36)
TUNER/BAND (pages 22, 32)
Unit: TAPE (pages 29, 32)
Unit: AUDIO (pages 29, 32)
Unit: VIDEO (pages 29, 32)
Unit: **USB** (pages 25, 27, 32, 33)
Remote: USB (pages 25, 27, 33)
Remote: FUNCTION (page 29)
Press to select a function.
- 10** Unit: **▶||** (play/pause) (pages 20, 24, 27, 29, 44)
Remote: **▶** (play) (pages 20, 27, 29, 44)
Remote: **||** (pause) (pages 20, 29)
Press to start or pause playback.

■ (stop) (pages 20, 22, 27, 29, 37, 43)
Press to stop playback, recording or transferring.

◀◀/▶▶ (go backward/go forward) (pages 20, 27, 34)
Press to select a track or file.

Unit: TUNING +/- (page 22)
Remote: +/- (tuning) (pages 22, 35)
Press to tune in a radio station.

📁 +/- (pages 20, 27, 33, 36)
Press to select a folder.

◀◀/▶▶ (rewind/fast forward) (pages 20, 28, 29)
Unit: Press to fast forward or rewind.
Remote: Press to find a point in a track or file.


- 11** **PUSH ▲ OPEN/CLOSE**
(page 29)
Press to insert or eject a tape.


Tape deck (pages 29, 36, 40, 47)
- 12** **REC TO TAPE** (page 37)
Press to record onto a tape.

REC TIMER (page 40)
Press to set the Recording Timer.

REC TO USB (page 24)
Press to transfer onto the connected optional USB device.
- 13** **FLANGER** (pages 31, 43, 47)
DELAY (pages 31, 43, 47)
CHORUS (pages 31, 43, 47)
SOUND FLASH (page 31)
Press to create a party atmosphere.
- 14** **Unit: MASTER VOLUME**
(pages 20, 27, 29, 31, 42)
Turn to adjust the volume.

Remote: VOLUME +/-*
(pages 20, 27, 29, 31, 42)
Press to adjust the volume.
- * The VOLUME + button has a tactile dot.
Use the tactile dot as a reference when operating the system.
- 15** **MIC (jack)** (pages 39, 42, 53)
Connect an optional microphone.

MIC LEVEL (pages 37, 39, 42)
Turn to adjust the microphone volume.
- 16**  (indicator)
Lights up when transferring to the connected optional USB device, or when erasing audio files or folders.

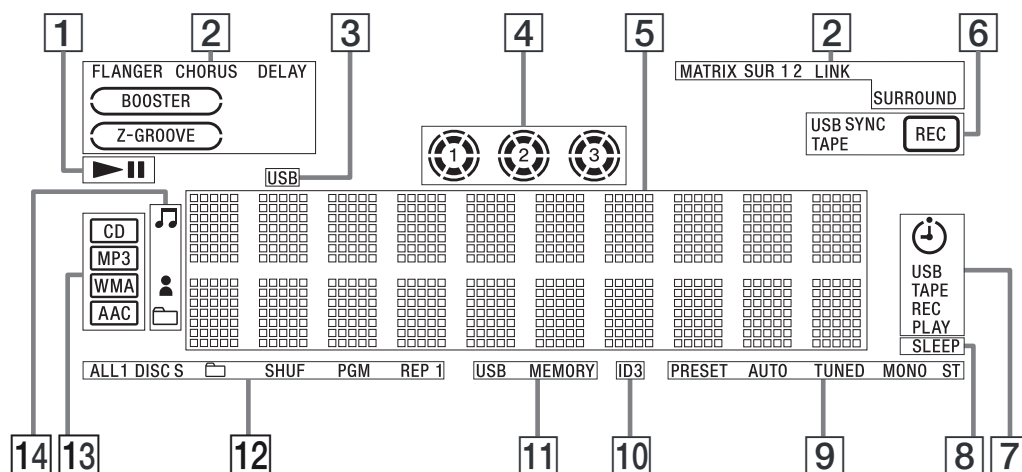
 (USB) port (pages 23, 25, 27, 46, 53)
Connect an optional USB device.
- 17** **AUDIO INPUT L/R (jacks)**
(page 29)
Connect to an audio component (Portable audio player, etc.).
- 18** **PHONES (jack)** (pages 42, 53)
Connect the headphones.
- 19** **ENTER** (pages 20, 27, 30, 31, 34, 35, 38)
Press to enter the selection.
- 20** **RETURN** (page 20)
Press to return to the parent folder.
Press to exit search mode.
- 21** **ERASE** (page 25)
Press to erase audio files or folders on the connected optional USB device.

Continued ➞

- [22] OPTIONS** (pages 30, 31)
Press to select the display pattern, MP3 BOOSTER+ function and USB SELECT.
- [23] DISPLAY** (pages 19, 32, 32, 36)
Press to change the information in the display.
- [24] IR Receptor** (page 42)
- [25] I/⏻** (on/standby) (pages 14, 15, 42, 48)
Press to turn the system on or off.
- [26] OPEN/CLOSE ▲** (pages 15, 20, 43)
Press to load or eject a disc.
- [27] DISC 1 ~ 3** (pages 21, 33)
Press to select a disc.
Press to switch to CD function from other function.
- [28] OPERATION DIAL** (pages 20, 27, 31, 38)
Turn to select a track, file or folder.
Turn to select a setting.
- [29] Unit: DISC SKIP/EX-CHANGE** (pages 15, 20, 21, 33)
Press to select a disc.
Press to exchange other discs during playback.

Remote: DISC SKIP (pages 21, 33)
Press to select a disc.
- [30] CLOCK/TIMER SELECT** (page 40)
CLOCK/TIMER SET (pages 19, 40)
Press to set the clock and the timers.
- [31] REPEAT/FM MODE** (pages 20, 23, 28, 47)
Press to change the Repeat Play setting.
Press to select the FM monaural or stereo reception.
- [32] EQ** (pages 30, 38)
Press to select a preset sound effect.
- [33] CLEAR** (page 34)
Press to delete a pre-programmed track.
- [34] PLAY MODE/TUNING MODE** (pages 21, 22, 28, 33, 35, 37, 44, 48)
Press to select the play mode of CD or USB function.
Press to select the tuning mode.
- [35] TUNER MEMORY** (page 35)
Press to preset a radio station.
- [36] SLEEP** (page 39)
Press to activate the Sleep Timer.

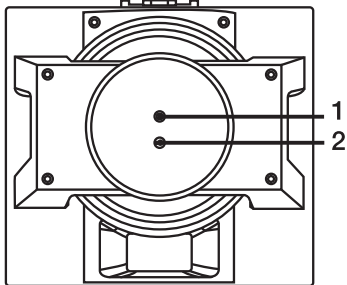
– Display



- 1** “▶” lights up during playback.
“▶||” lights up when playback is paused.
- 2** Indicates the activated sound effect (pages 30, 31, 38).
Note
“LINK”, “MATRIX SUR 1” and “MATRIX SUR 2” light up for MHC-GTX888 only.
- 3** Lights up when the USB function is selected (page 27).
- 4** Indicators for the disc tray (page 20).
“○” lights up when the disc is selected. “⊙” lights up when there is a disc on the disc tray. “1”, “2” and “3” light up when the system is turned on.
- 5** Displays the current status and information (page 32).
- 6** Lights up during transferring onto an USB device or recording onto a tape (pages 23, 36).
- 7** Lights up when the timer is set (page 39).
- 8** Lights up when the Sleep Timer is activated (page 39).
- 9** Indicators for the TUNER function (pages 22, 35).
- 10** Lights up when the MP3 file contains ID3 tag information.
- 11** Lights up when an optional USB device is recognized (page 23).
- 12** Indicates the selected play mode (pages 21, 28).
- 13** Indicates the type of disc or file that the system recognized.
- 14** Indicates the type of audio file information that displayed (page 32).
“🎵” lights up when a file name is displayed. “👤” lights up when an artist name is displayed. “📁” lights up when a folder name is displayed.

Using the subwoofers**(MHC-GTX888 only)**

You can use the subwoofers to enhance the bass.

Subwoofer A (SS-WG888A)

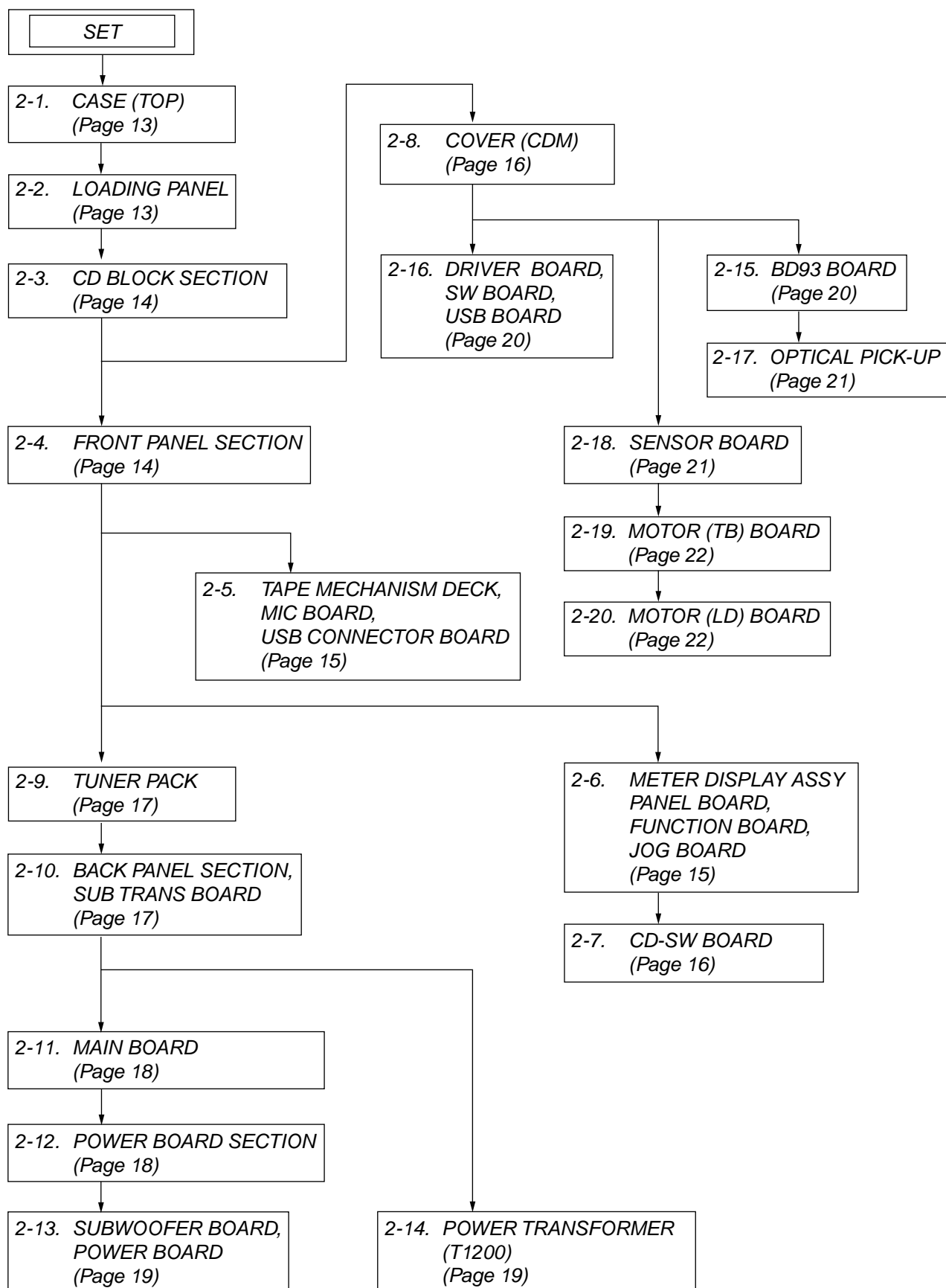
- 1** Press SUBWOOFER ON/OFF on the subwoofer A to light up the indicator.

The subwoofers are turned on.

- 2** Turn SUBWOOFER LEVEL on the subwoofer A to adjust the level.

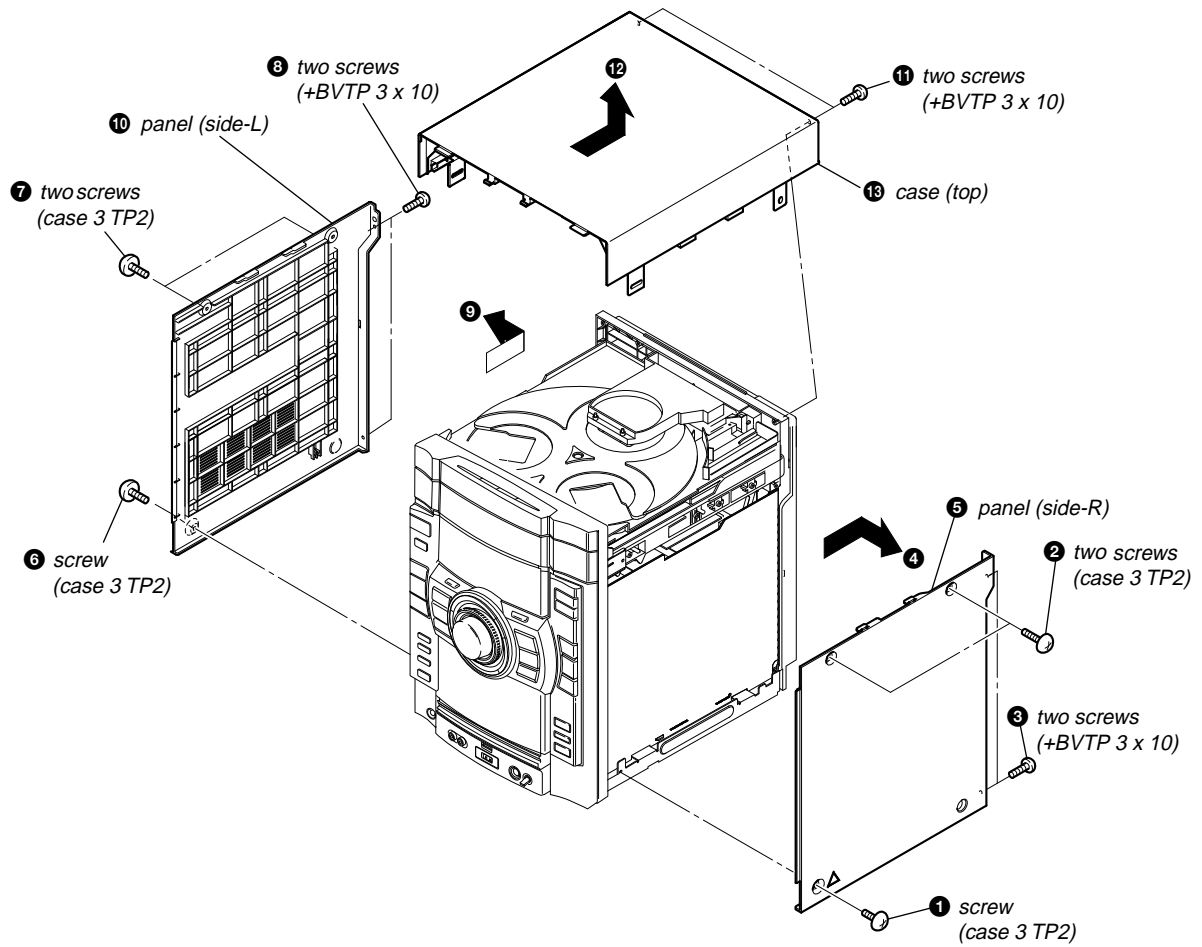
SECTION 2 DISASSEMBLY

Note : This set can be disassembled in the order shown below.

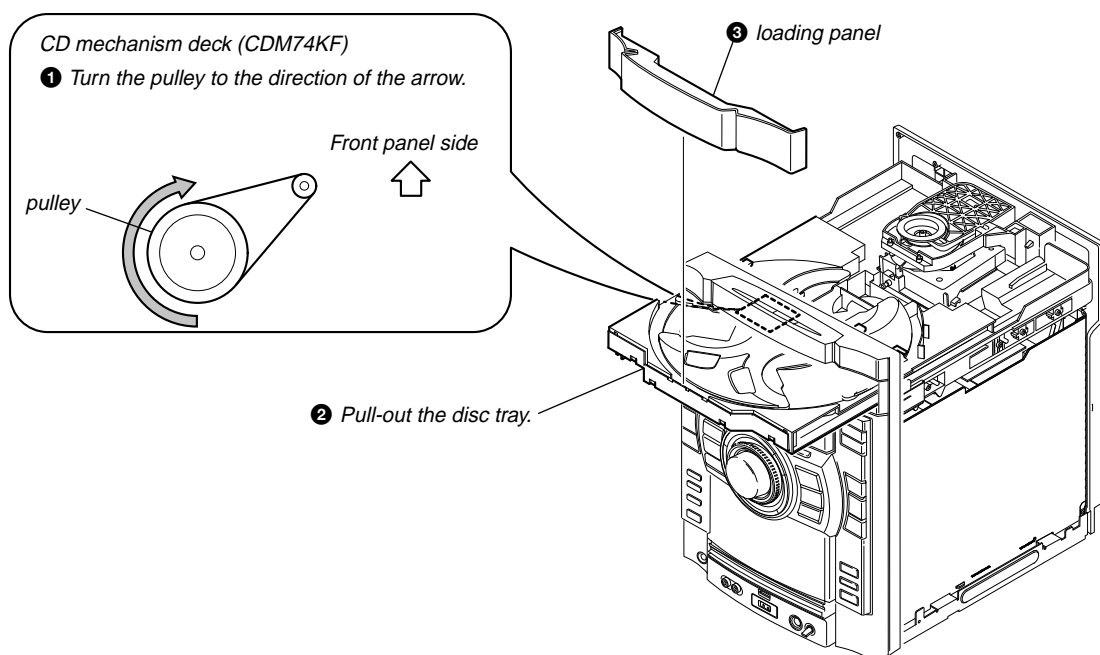


Note : Follow the disassembly procedure in the numerical order given.

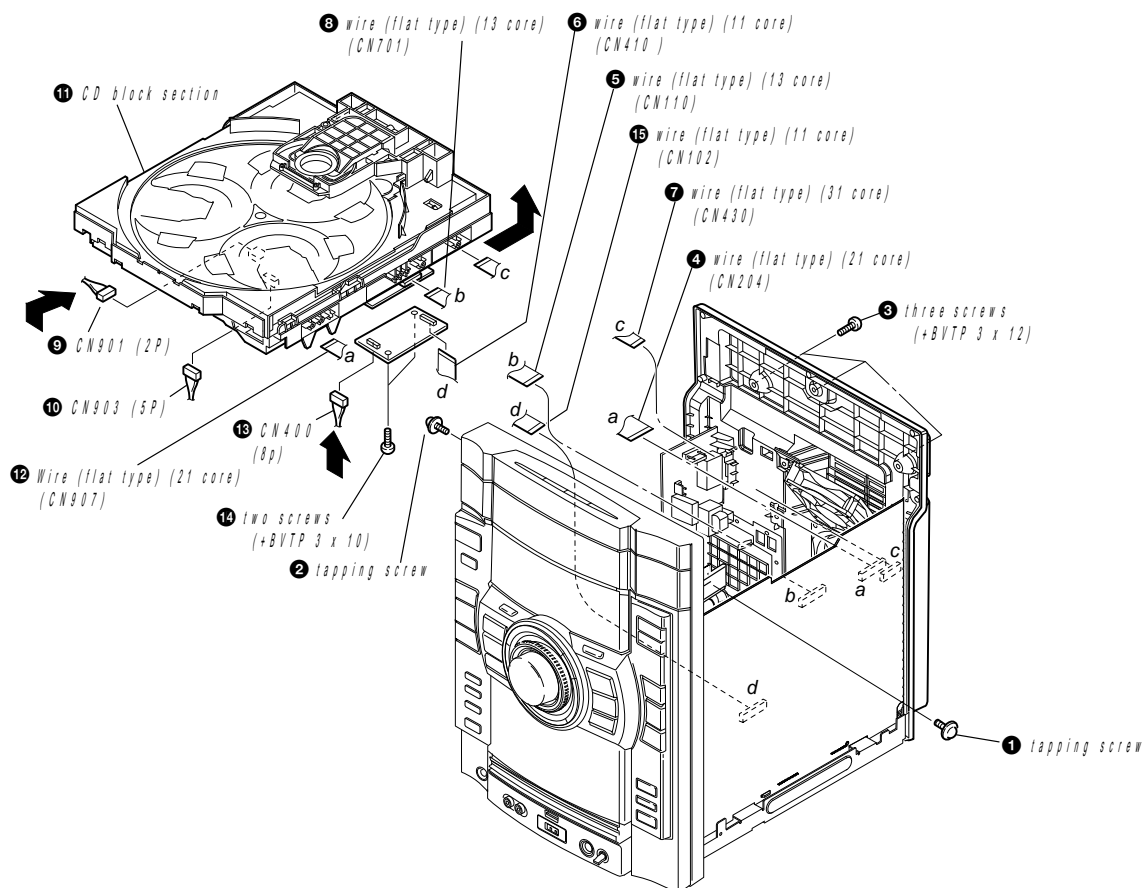
2-1. CASE (TOP)



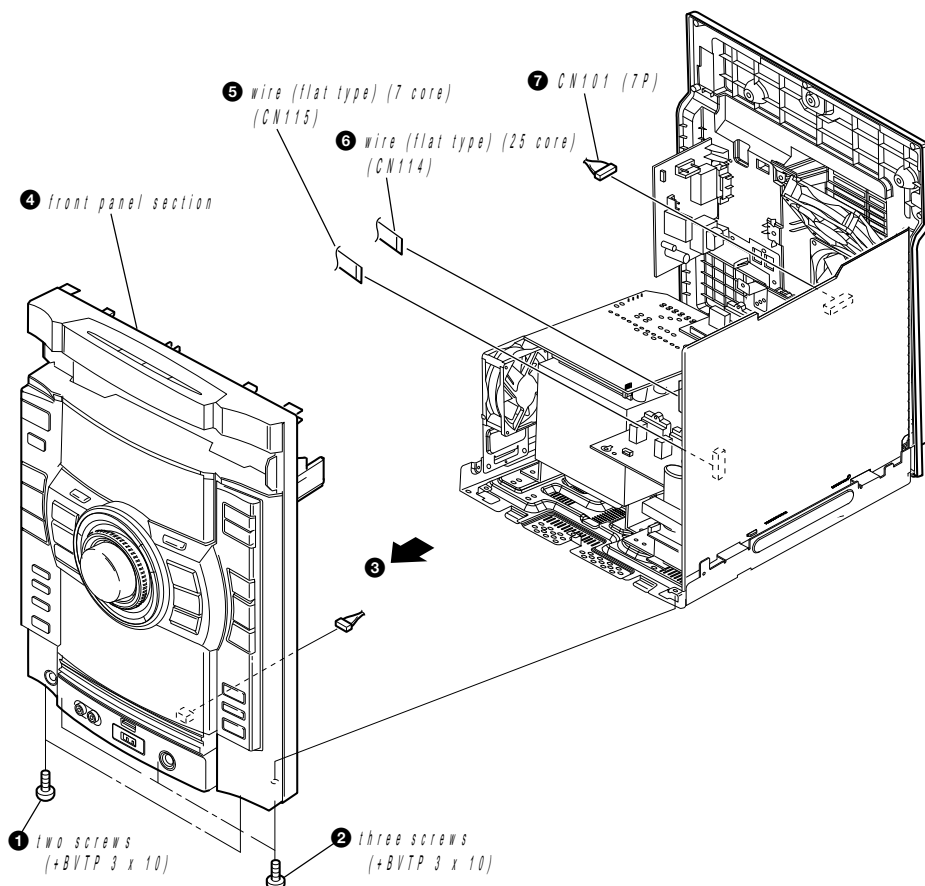
2-2. LOADING PANEL



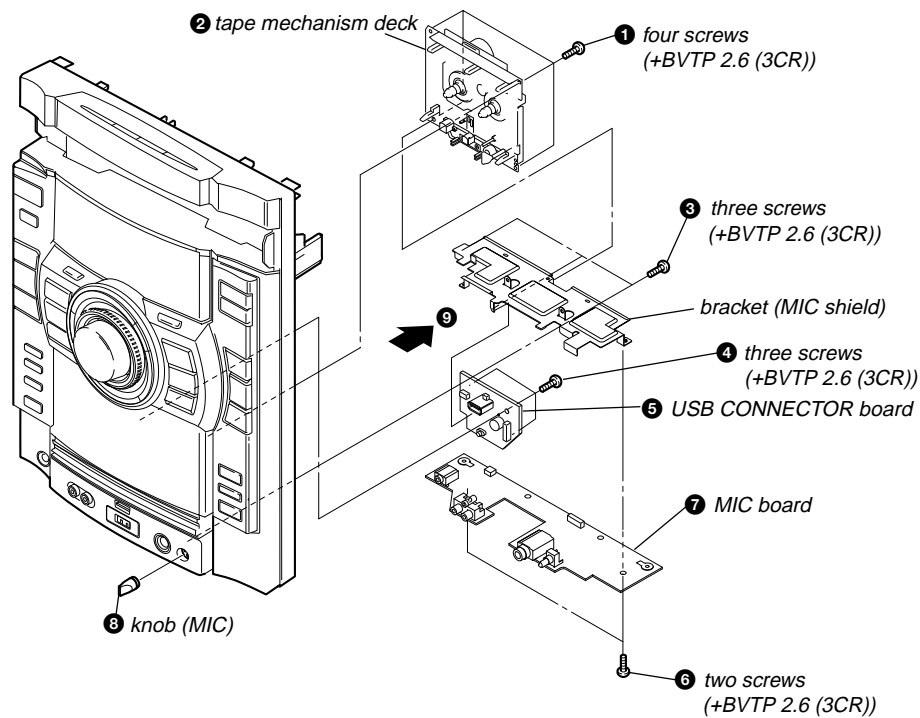
2-3. CD BLOCK SECTION



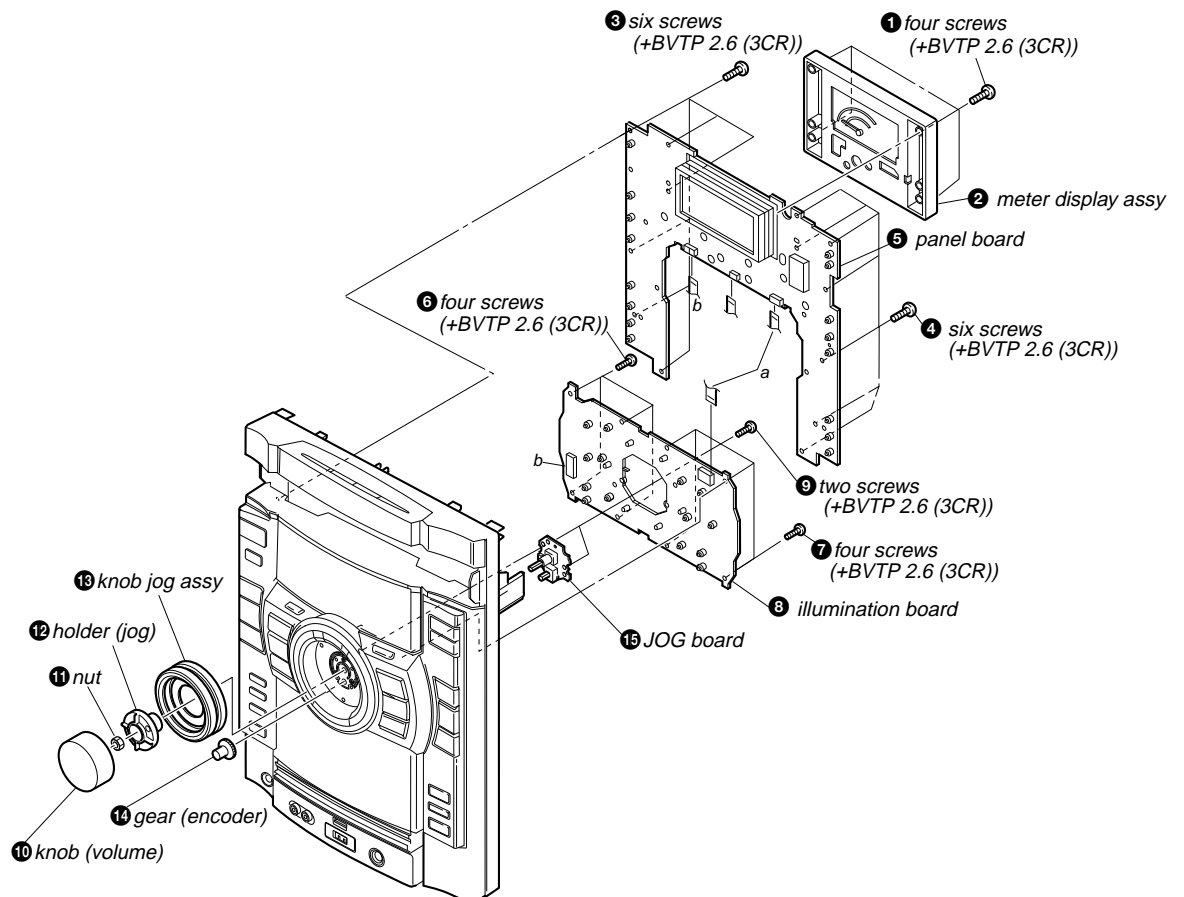
2-4. FRONT PANEL SECTION



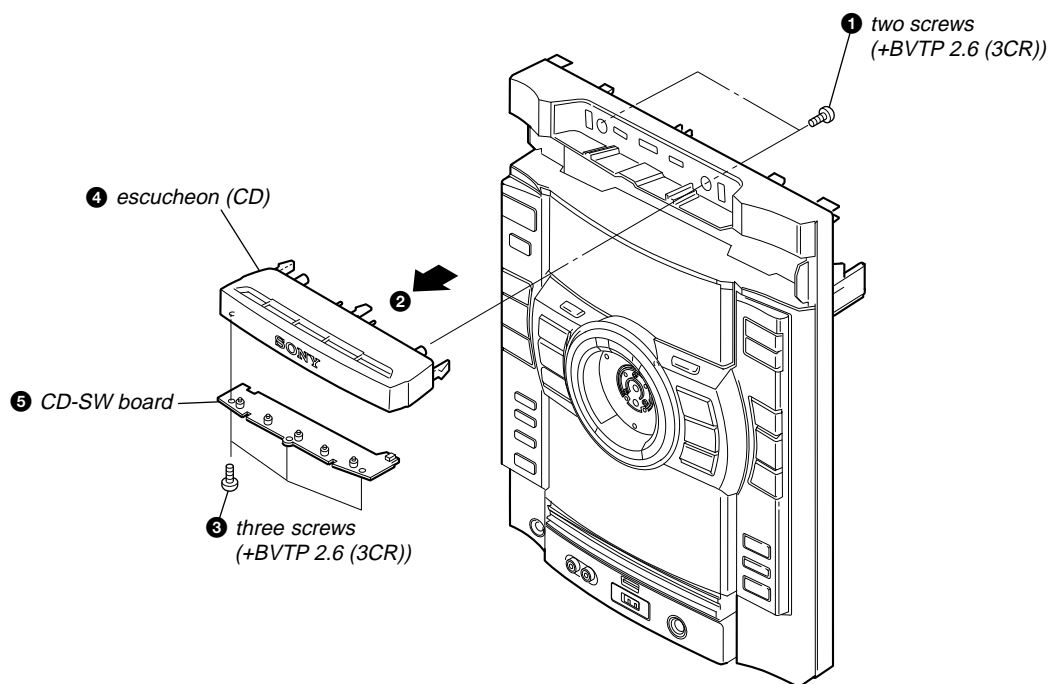
2-5. TAPE MECHANISM DECK, MIC BOARD, USB CONNECTOR BOARD



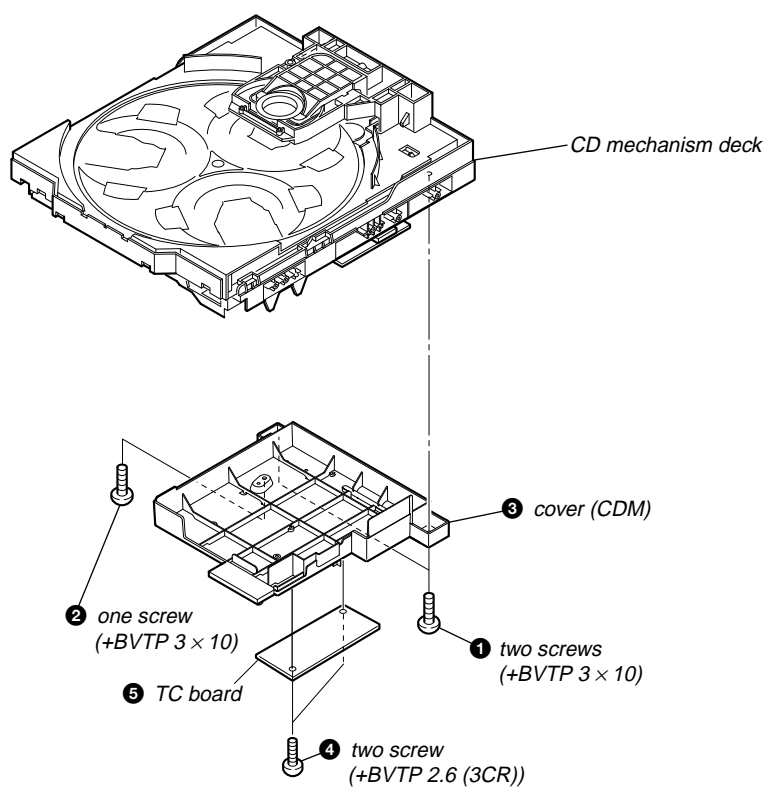
2-6. PANEL BOARD, FUNCTION BOARD, JOG BOARD



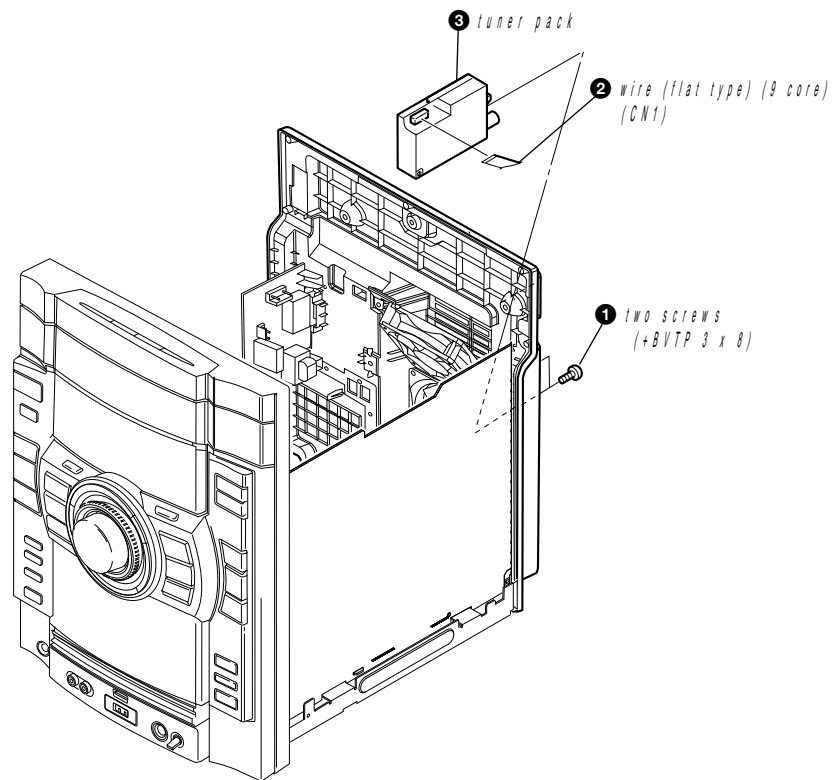
2-7. CD-SW BOARD



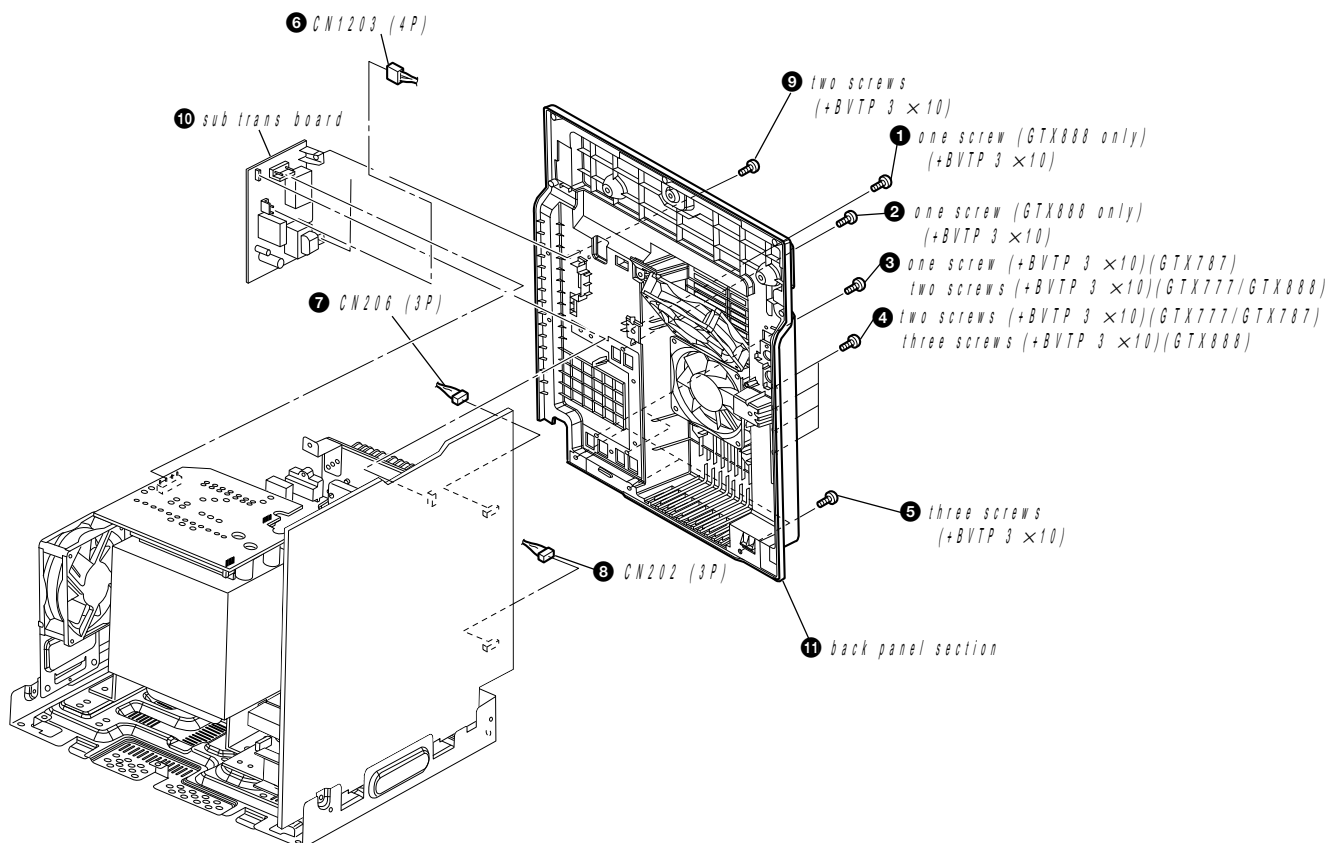
2-8. COVER (CDM), TC BOARD



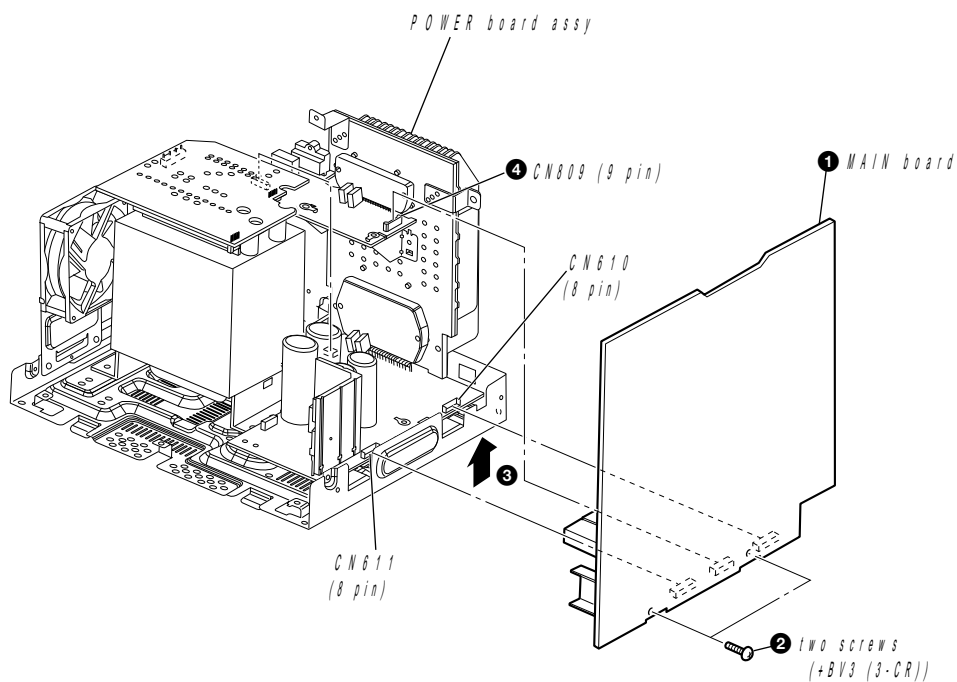
2-9. TUNER PACK



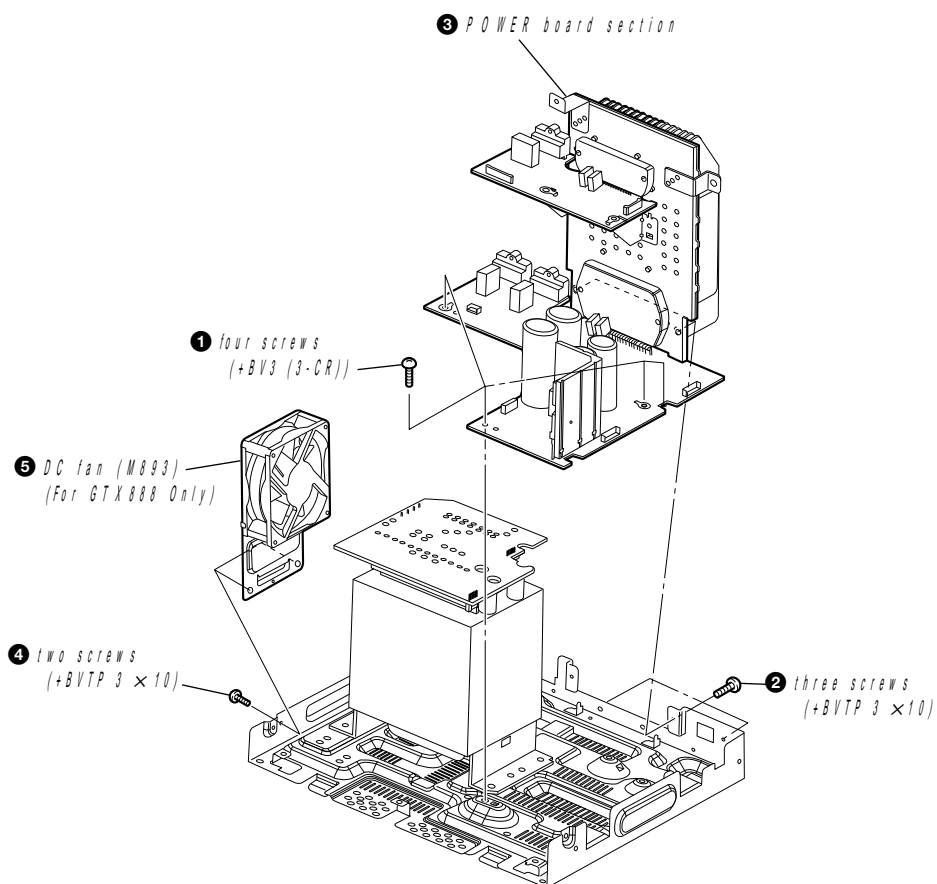
2-10. BACK PANEL SECTION, SUB TRANS BOARD



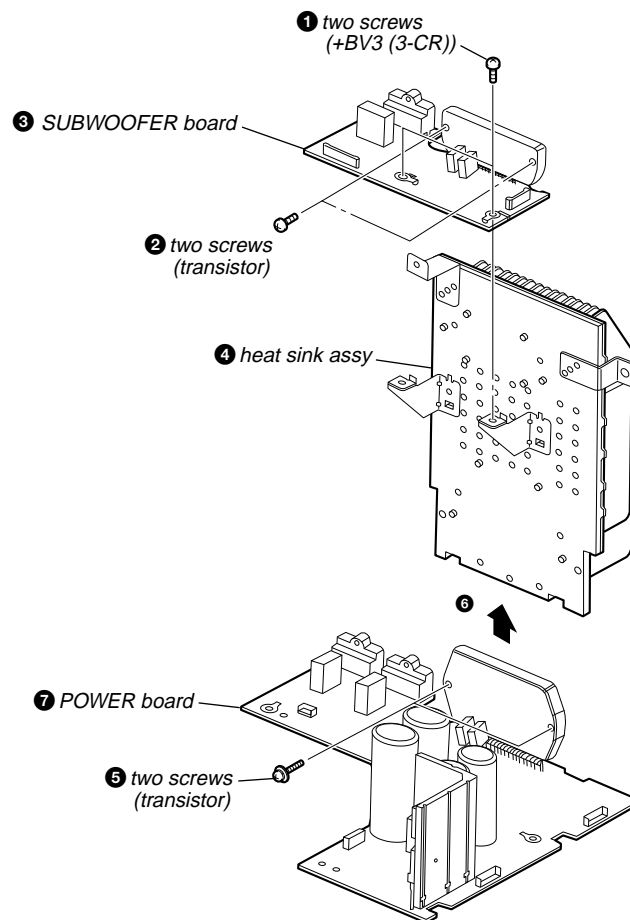
2-11. MAIN BOARD



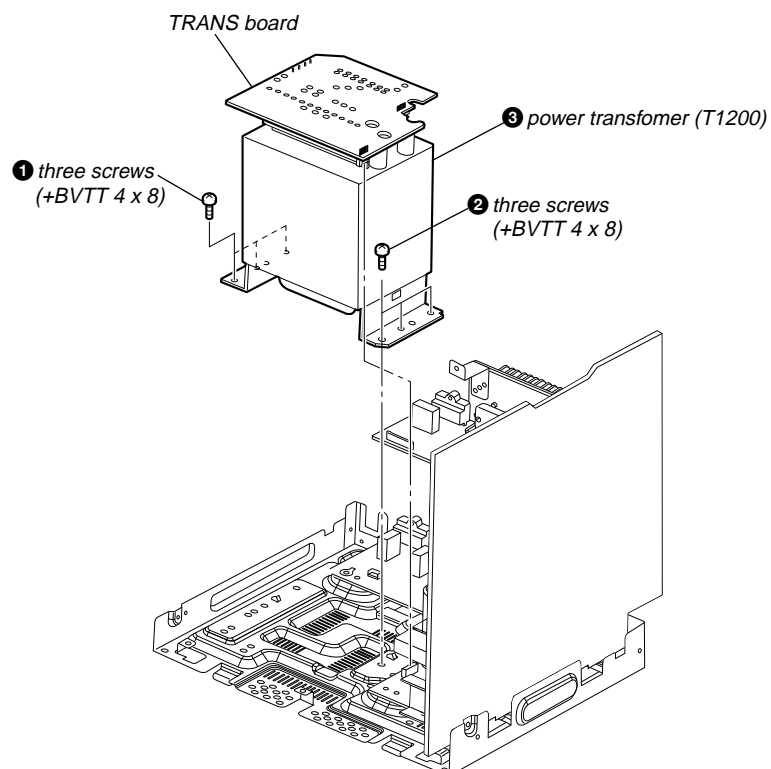
2-12. POWER BOARD SECTION, DC FAN (FOR GTX888)



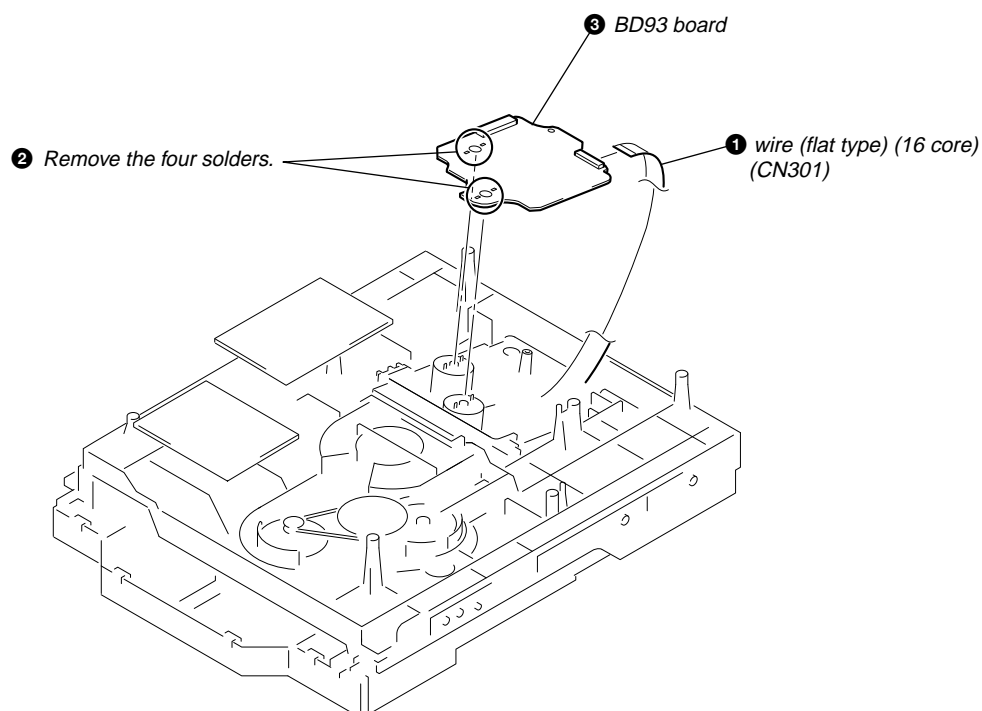
2-13. SUBWOOFER BOARD, POWER BOARD



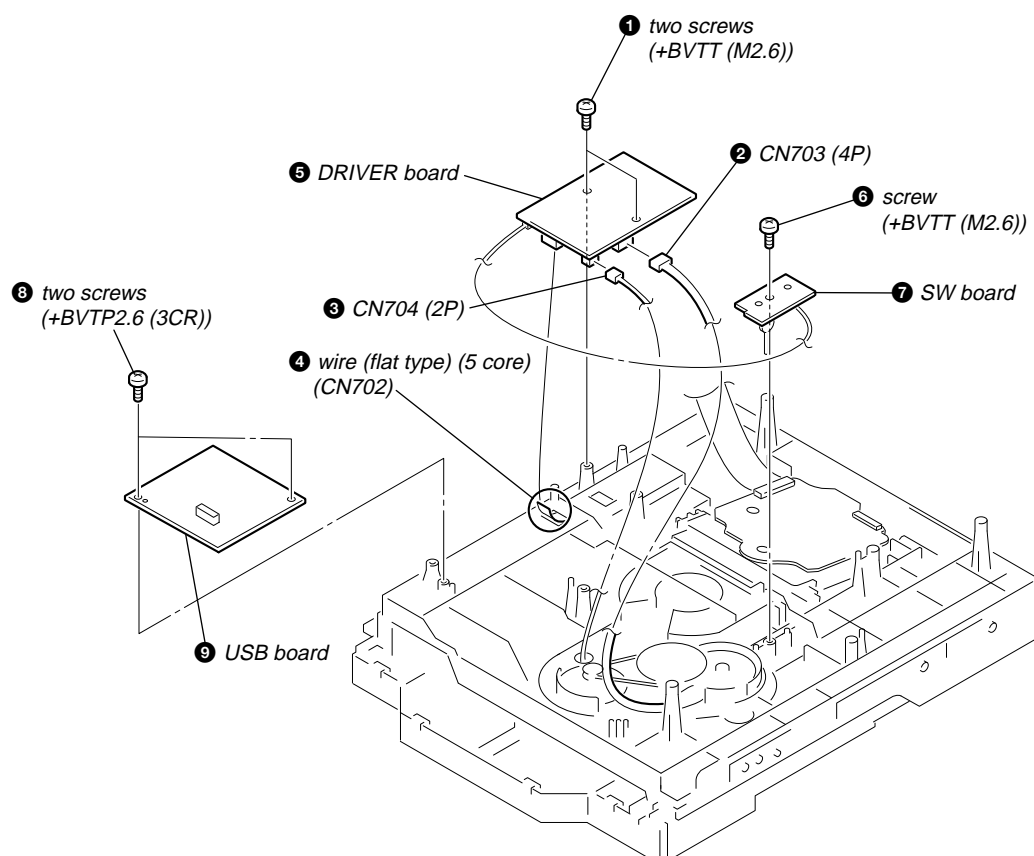
2-14. POWER TRANSFORMER (T1200)



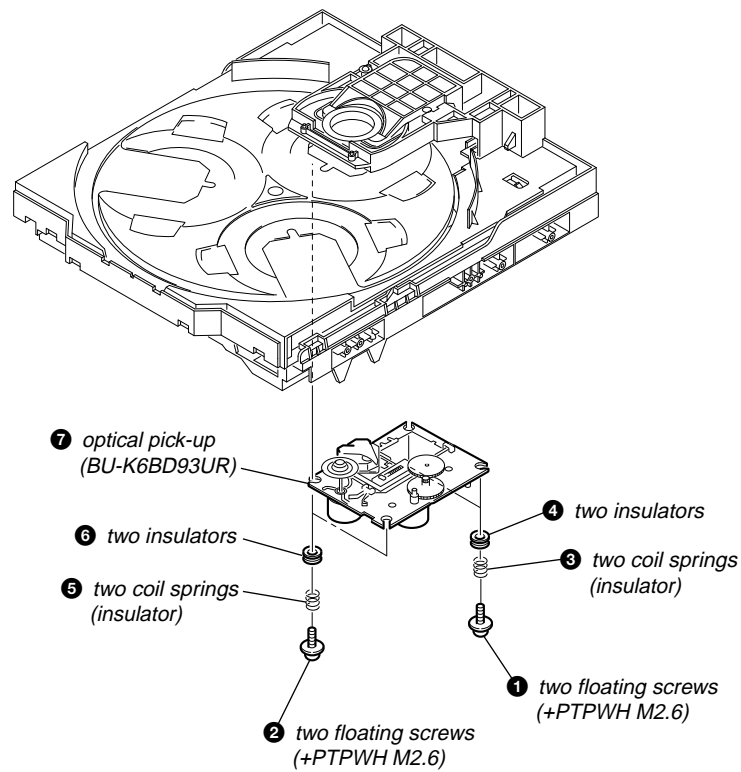
2-15. BD93 BOARD



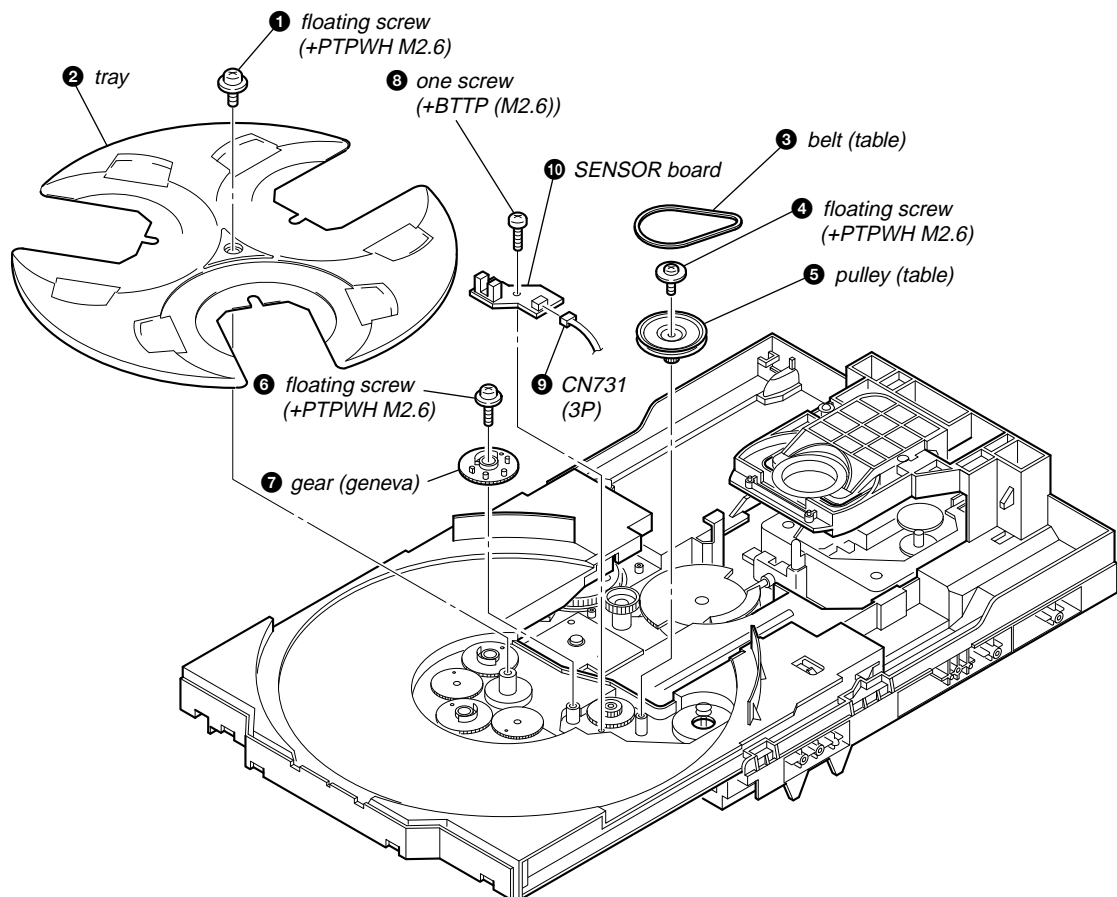
2-16. DRIVER BOARD, SW BOARD, USB R BOARD



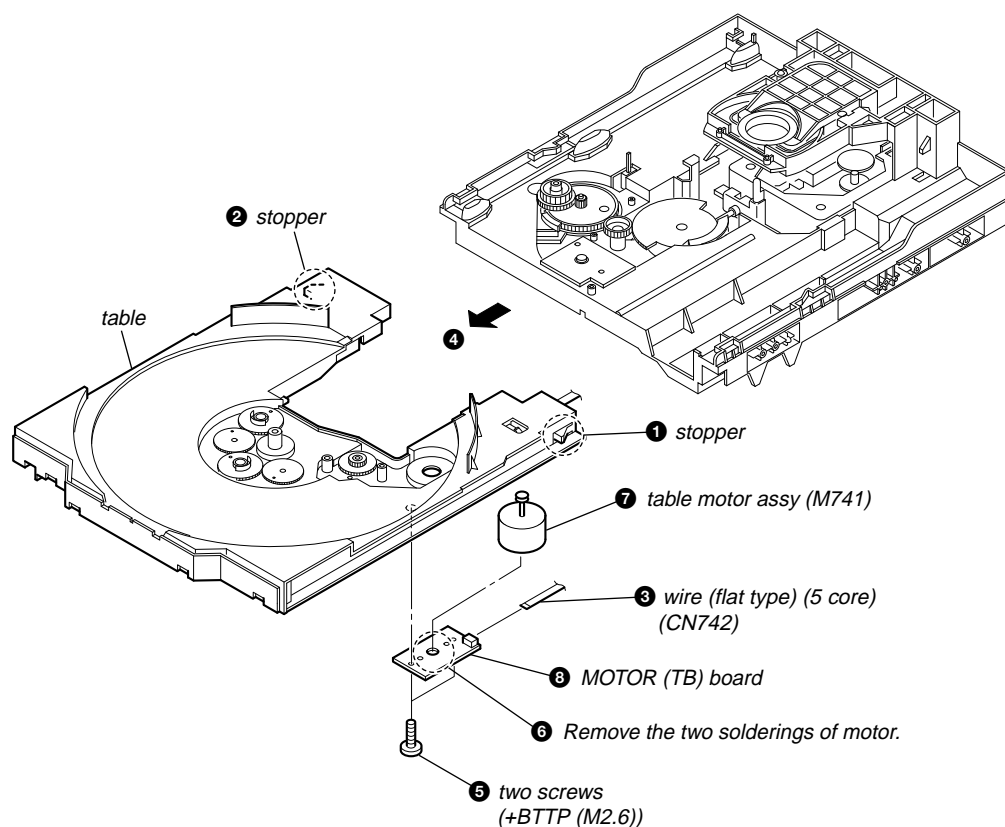
2-17. OPTICAL PICK-UP



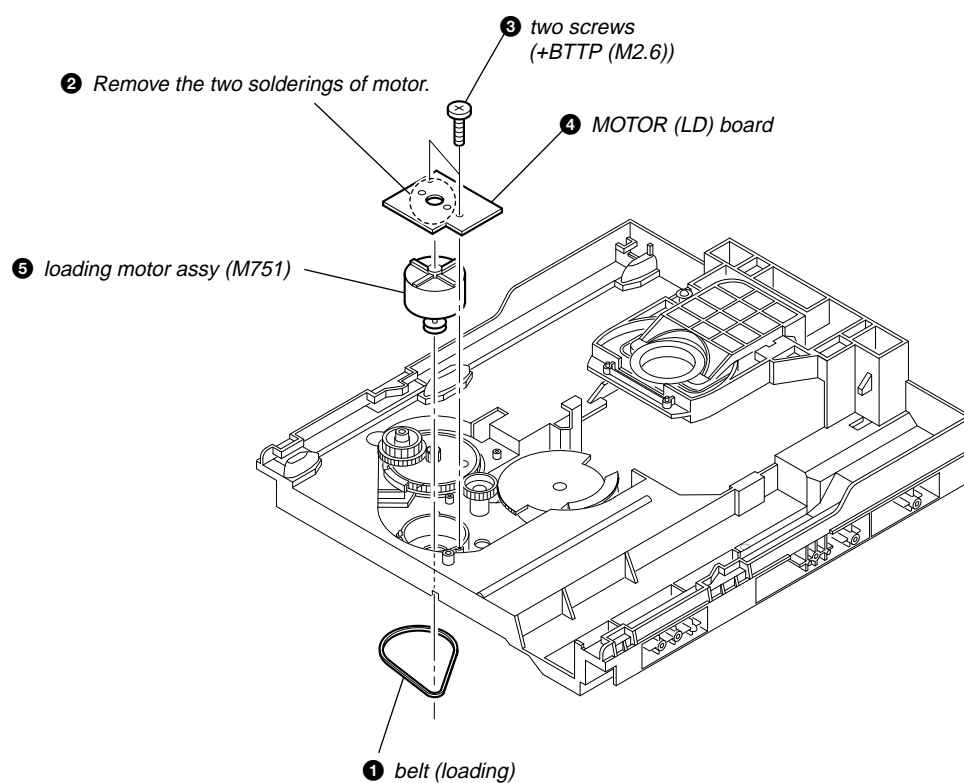
2-18. SENSOR BOARD



2-19. MOTOR (TB) BOARD



2-20. MOTOR (LD) BOARD



SECTION 3 TEST MODE

[GC TEST MODE]

- This mode is used to check the fluorescent indicator tube, LEDs, buttons, MASTER VOLUME knob, OPERATION DIAL knob, model, destination, software version.

Procedure:

- Press button, button and button simultaneously.
- All LEDs and segments in fluorescent indicator tube are lighted up.
All LEDs are lighted up in red color except for LED where the LED is lighted up in red and blue color.
- When you want to enter to the model version and destination display mode, press button. The model information appears on the fluorescent indicator tube.
- Each time button is pressed, the display changes to display software version and date of the software creation. The sequence is SC version, GC version, SYS version, CD version, CDDM version, CDMA version, CDMB version, BDA version, BDB version, ST version, TC version, TA version, TM version, MM1 version, MM2 version and MTR version in this order, and returns to the model version display.
- Press button, the key check mode is activated.
- In the key check mode, the fluorescent indicator tube displays "K 0 J0 V0".
Turn the clockwise; "J" value increases by one. Turn the counterclockwise; "J" value decreases by one. Each time a button is pressed, "K" value increases. Press other keys on main unit to check whether the key is detected. However, once a button has been pressed, it is no longer taken into account.
"V" value increases in the manner of 0, 1, 2, 3 ... if knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if knob is turned counterclockwise.
- When button is pressed after all LEDs and segments in fluorescent indicator tube light up, alternate segments in fluorescent indicator tube and LED would light up. If you press button again, another half of alternate segments in fluorescent indicator tube and LEDs would light up. Press button would cause all segments in fluorescent indicator tube and LED turns off. Pressing button again would cause all LED and segments lights up.
- To release from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[MC TEST MODE]

- This mode is used to check operations of the respective sections of Amplifier, Tuner and Tape.

Procedure:

- To enter MC Test Mode
- Press button, button and button simultaneously.
 - The CD ring indicators flash on the fluorescent indicator tube. The function is changed to VIDEO.
- * Check of Amplifier
- Press button repeatedly until a message "GEQ MAX" appears on the fluorescent indicator tube. GEQ increases to its maximum.
 - Press button repeatedly until a message "GEQ MIN" appears on the fluorescent indicator tube. GEQ decreases to its minimum.

- Press button repeatedly until a message "GEQ FLAT" appears on the fluorescent indicator tube. GEQ is set to flat.
- When the knob is turned clockwise even slightly, the sound volume increases to its maximum and a message "VOLUME MAX" appears on the fluorescent indicator tube.
- When the knob is turned counter-clockwise even slightly, the sound volume decreases to its minimum and a message "VOLUME MIN" appears on the fluorescent indicator tube.

* Tape function

- Insert a tape in deck. The function is changed to VIDEO automatically when the recording is started by pressing then press button.
- During recording, press button will stop the recording and the function is changed to TAPE and rewind the tape in Deck until the recording start position and playback of the tape in Deck is started.

* To release from MC Test mode

- To release from this mode, press button.
- The cold reset is enforced at the same time.

[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:

- Press button, button and button simultaneously.
- The fluorescent indicator tube becomes blank for while, and the set is reset.

[VACS ON/OFF]

- This mode is used to switch ON and OFF the VACS (Variable Attenuation Control System).

Procedure:

- Press button to turn on the system.
- Press button and button simultaneously. The message "VACS OFF" or "VACS ON" appears on the fluorescent indicator tube.

[TUNER STEP CHANGE]

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









Procedure:

- Press button to turn on the system.
- Press button to select the "AM".
- Press button to turn off the system.
- Press button and button simultaneously. The system will turn on automatically. The message "AM 9K STEP" or "AM 10K STEP" appears on the fluorescent indicator tube and thus the channel step is changed.

[CD SERVICE MODE]

- This mode let you move the CD sled motor freely. Use this mode when you want to clean the optical pick-up.








Procedure:

1. Press  button to turn on the system.
2. Select CD function.
3. Press  button,  button and  button simultaneously.
4. The CD service mode is activated. The message “SERVICE MODE” appears on the fluorescent indicator tube.
5. With the CD in stop status, press  to move the optical pick-up to outside track, or turn  to move to inside track. The message “SLED OUT” or “SLED IN” appears on the fluorescent indicator tube.
6. To turn on or off the laser, press  button. The message “LD ON” or “LD OFF” appears on the fluorescent indicator tube.
7. To release from this mode, press  button to turn off the system.

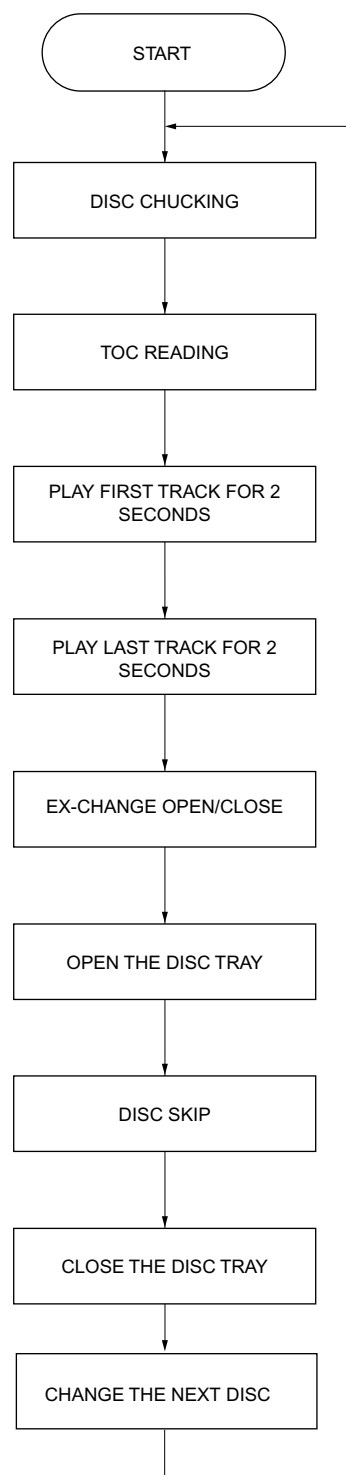
[CD AGING MODE]

- This mode can be used for operation check of CD section. If an error occurs, the aging operation would stops and the status is displayed. If there were no error occurs, the aging operation would continue repeatedly.

Procedure:

1. Press  button to turn on the system.
2. Select CD function.
3. Load three discs on disc tray.
4. Press  button on the remote control repeatedly to select the “ALL DISCS” mode, and press the  button on the remote control repeatedly to select repeat mode off.
5. Press  button,  button and  button simultaneously.
6. Aging operation is started.
7. To release from this mode, press  button or disconnect the power cord to turn the power OFF.

• Aging mode sequence:

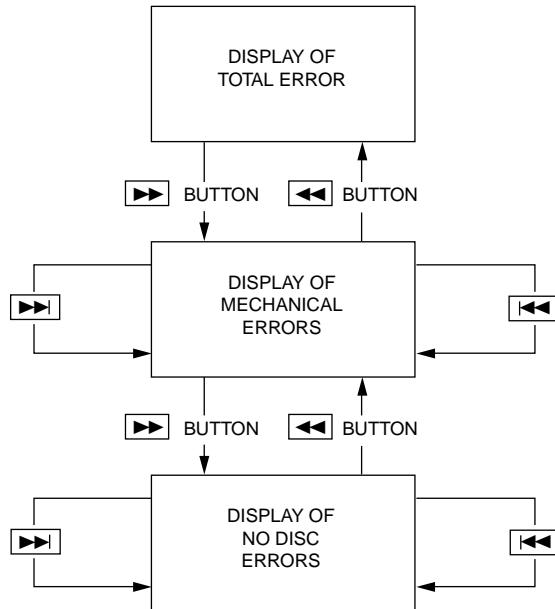


[CD ERROR CODE MODE]

- Display the CD error code when an error occurred.

Procedure:

1. Press button, button and button simultaneously to enter the error code display mode.
2. The fluorescent indicator tube display the number of total error.
3. Each time button and button are turned, display change as below.



4. To clear the error record, operate the cold reset. (Refer to the "MC COLD RESET".)
5. To release from this mode, press the button or disconnect the power plug to turn the power OFF.

- Display of total error

Em**Ed**

Em** : The number of times for CDM (mechanical) errors.

Ed** : The number of times for BD error (after chucking the disc.).

- Display of CDM (mechanical) error. It is show with "M" and 11 digit number.

M*\$\$\$%&&0-
000

M* : The number of history error for mechanical. ("0" is latest one) (Turn button to display next error.)

\$\$: Mechanical errors occur in the operation.

FF : Mechanical error during normal operation.

Other: Mechanical error during initializing operation.

%% : The process when trouble occurs

01 : Process ejecting DISC

02 : Process waiting for inserting DISC

03 : Process sending request to insert a disc to upper layer.

04 : Process sending request to eject a disc to upper layer.

05 : Process pulling a DISC in.

06 : Chucking process

07 : Re-chucking process

08 : Process cancelling chucking

&& : The operation when trouble occurs

00 : Waiting for operation.

10/11/12/13: During eject operation

20 : While pulling a disc in

30 : While cancelling chucking

40/41/42/43: During eject operation due to error.

0000 : Not used (Value is fixed to 0000).

- Display of BD error. It is shown with "D" and 11 digits number.

D*\$\$\$%&&#-
#00

D* : The number of error history ("0" is latest one)
(Press button to display next error.)

\$\$: The detail of trouble

01 : Can not focus

02 : GFS error

03 : Start-up time over

04 : Continuously out of focus

05 : Q code is not input for certain time

06 : Tracking on is impossible

07 : Blank disc

%% : The process when trouble occurs

01 : While SHIP process is performed

02 : While POWER OFF is processed

03 : While INITIALIZE (POWER ON) is processed.

04 : While oscillation stops

05 : From stopping oscillation to start oscillation

06 : During stop

07 : During STOP operation

08 : While start-up is processed

09 : While TOC reading is processed

0a : During search operation

0b : During PLAY operation

0c : During pause operation

0d : During PLAY manual search operation

0e : During PAUSE manual search operation

&& : Processing operation when trouble occurs
Show each STEP mentioned in %% digits.

: Disc speed when trouble occurs.

01 : x1 speed

02 : x2 speed (for models which support x2 speed)





04 : x4 speed

00 : Not used (value is fixed to 00).

[CD REPEAT 5 LIMIT OFF MODE]

- The number of repeat for CD playback is 5 times when the repeat mode is “REPEAT ALL”. This mode enables CD to repeat playback for limitless times.

Procedure:





1. Press  button to turn on the system.
2. Select CD function.
3. Press  button,  button and  button simultaneously to enter the CD repeat 5 limit off mode and the fluorescent indicator tube displays “LIMIT OFF”.

- To release from this mode, operate the cold reset.
(Refer to the “MC COLD RESET”.)

[CD SHIP MODE (WITH 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. Use this mode when returning the set to the customer after repair.




Procedure:

1. Press  button to turn on the system.
2. Select CD function.
3. Press  button,  button and  button simultaneously. The system will turn off automatically.
4. After the “STANDBY” blinking display finishes, a message “MECHA LOCK” is displayed on the fluorescent indicator tube and the CD ship mode is set.
5. The Memory is clear after AC Power OFF.

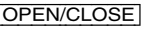

[CD SHIP MODE (WITHOUT MEMORY CLEAR)]

- 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.



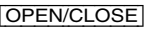
Procedure:

1. Press  button to turn on the system.
2. Select CD function.
3. Press  button and  button simultaneously. The system will turn off automatically.
4. After the “STANDBY” blinking display finishes, a message “MECHA LOCK” is displayed on the fluorescent indicator tube and the CD ship mode is set.

[CD TRAY LOCK MODE]

- This mode let you lock the disc tray. When this mode is activated, the disc tray will not open when  button or  button is pressed. The message “LOCKED” will be displayed on the fluorescent indicator tube.




Procedure:

1. Press  button to turn on the system.
2. Select CD function.
3. Press  button,  button simultaneously and hold down until “LOCKED” or “UNLOCKED” displayed on the fluorescent indicator tube (around 5 seconds).

[TCM OFFLINE MODE]

- This mode is used to prevent the system from turning off automatically when TCM is not connected. Therefore, measurements can be done even when TCM is not connected during production.




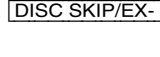
Procedure:

1. When the system is turned off, press  button,  button and  button simultaneously. The system will turn on automatically.
2. The message “TCM OFFLINE” will be displayed on the fluorescent indicator tube.

[VACS DISPLAY]

- This mode is used to check the VACS level.



Procedure:

1. Press  button to turn on the system.
2. Press  button,  button and  button simultaneously.
3. The VACS Level Display, the fluorescent indicator tube displays “VATB F APC”. “V” represent VACS, A represent VACS level which is triggered by signal level, “T” represent Thermal VACS NEO, B represent VACS level which is triggered by temperature, “F” represent FAN is triggered by software to turn in to high speed, “AP” represent APVACS (Abuse Protection VACS) and “C” represent APVACS level which is triggered.

[METER SWITCH TOUCH COUNT DISPLAY]

- This mode is used to display the total count of meter pointer touch initial switch and max switch.



Procedure:

- Press  button to turn on the system.
- Press  button, **[ENTER]** button and **[DISPLAY]** button simultaneously.
- The fluorescent indicator tube displays “IxxxxxMyyyyy”.
“I” represents the Initial Switch touch.
“xxxxx” represents the total count of Initial Switch touch.
(Maximum Value of “xxxxx” = 65535)
“M” represents the Max Switch touch.
“yyyyy” represents the total count of Max Switch touch.
(Maximum Value of “yyyyy” = 65535)
- To release from this mode, do step (2) again.
The fluorescent indicator tube displays “MODE OUT”.

[METER TEST MODE]

- This mode is used to check the meter device.

Procedure:

- Press  button to turn on the system.
- Press  button, **[ENTER]** button and **[METER MODE]** button simultaneously.
- Meter Backlight LEDs, Meter Pointer LEDs, Power Illuminator LEDs and fluorescent indicator tube are lighted up.
- When you want to perform count total step from Initial Switch to Max Switch operation mode, press **[>>]** button. The meter pointer will move from Initial Switch to Max Switch and finally move back to the middle position. The total step count information appears on the fluorescent indicator tube. “xxx STP yy” is shown.
“xxx” represents the total step.
(Value of “xxx” should between 430 steps to 470 steps)
“yy” represents the status of total step count.
(If total step between 430 steps to 470 steps, “yy” is OK, else “yy” is NG)
- When you want to perform count total step from Max Switch to Initial Switch operation mode, press **[<<]** button. The meter pointer will move from Max Switch to Initial Switch and finally move back to the middle position. The total step count information appears on the fluorescent indicator tube. “xxx STP yy” is shown.
“xxx” represents the total step.
(Value of “xxx” should between 430 steps to 470 steps)
“yy” represents the status of total step count.
(If total step between 430 steps to 470 steps, “yy” is OK, else “yy” is NG)
- To release from this mode, do step (2) again.
The fluorescent indicator tube displays “TST MODE OUT”.

SECTION 4

MECHANICAL ADJUSTMENTS

Precaution

- Clean the following parts with a denatured alcohol-moistened swab:
record/playback heads pinch rollers
erase head rubber belts
capstan idlers
- Demagnetize the record/playback head with a head demagnetizer.
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	2.9m N • m to 6.9m N • m 30 to 70 g • cm (0.42 – 0.97 oz • inch)
FWD back tension	CQ-102C	0.15m N • m to 0.59m N • m 2 to 6 g • cm (0.03 – 0.08 oz • inch)
REV	CQ-102RC	2.9m N • m to 6.9m N • m 30 to 70 g • cm (0.42 – 0.97 oz • inch)
REV back tension	CQ-102RC	0.15m N • m to 0.59m N • m 2 to 6 g • cm (0.03 – 0.08 oz • inch)
FF/REW	CQ-201B	4.8m N • m to 16.7m N • m 49 to 170 g • cm (0.68 – 2.36 oz • inch)

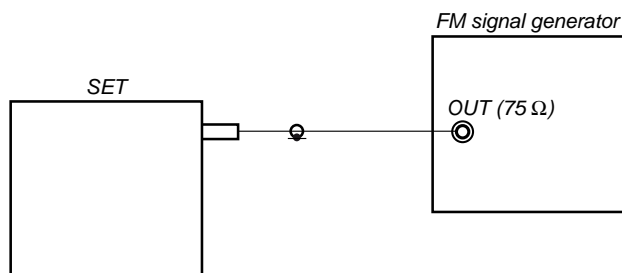
SECTION 5

ELECTRICAL ADJUSTMENTS

TUNER SECTION

0 dB = 1 μ V

[FM Tune Level Check]



Procedure:

1. Turn the power on.
2. Input the following signal from Signal Generator to FM antenna input directly.

* Carrier Freq: A = 87.5 MHz, B = 98 MHz, C = 108 MHz
 Deviation : 75 kHz
 Modulation : 1 kHz
 ANT input : 35 dBu (EMF)

Note: Please use 75 ohm "coaxial cable" to connect SG and the set. You cannot use video cable for checking.
 Please use SG 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.

The mark of "TUNED" means "The selected station signal is received in good condition."

DECK SECTION

0 dB = 0.775 V

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

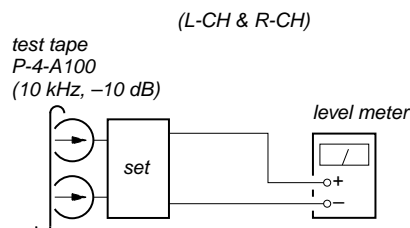
Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment

[RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT]

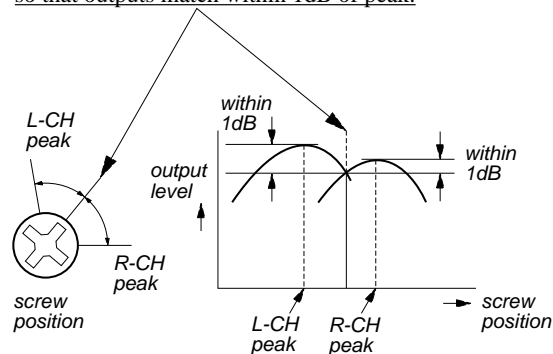
Note: Perform this adjustments for Single deck

Procedure:

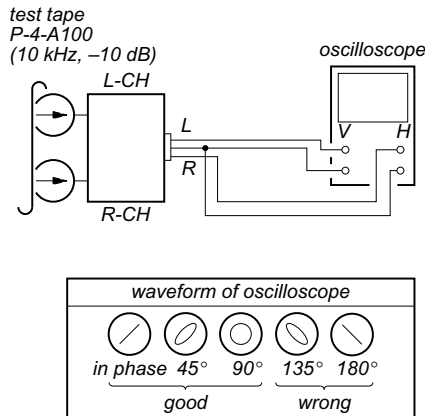
1. Mode: Playback



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.

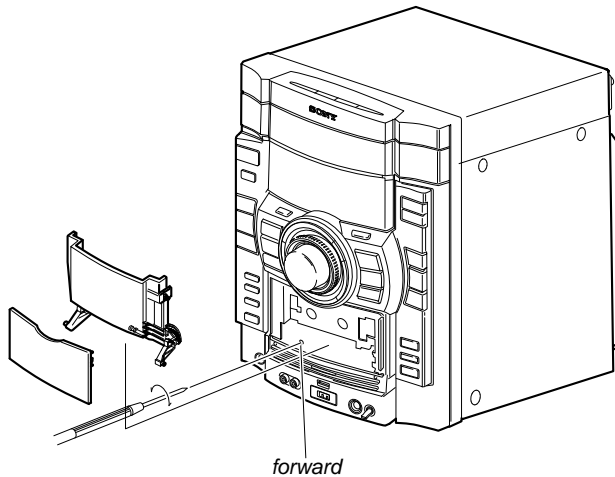


3. Mode: Playback



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

Adjustment Location: Playback Head (Deck).



CD SECTION

[TEST DISC LIST]

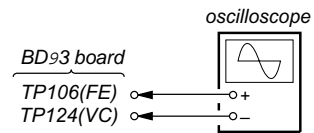
Use the following test disc on test mode.

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

Note:

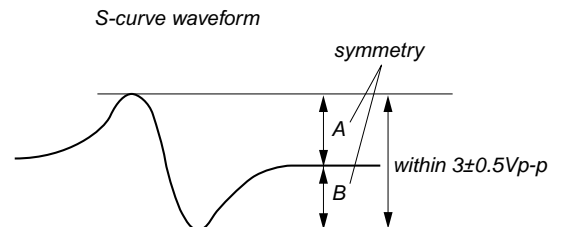
1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MW impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal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

[S-CURVE CHECK]



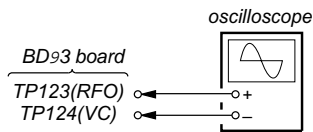
Procedure :

1. Connect an oscilloscope to TP106 (FE) and TP124 (VC).
2. Turn the power on.
3. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
4. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B and confirm peak to peak level within 3 ± 0.5 Vp-p.



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

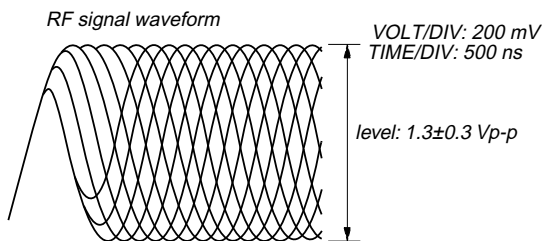
[RF LEVEL CHECK]



Procedure :

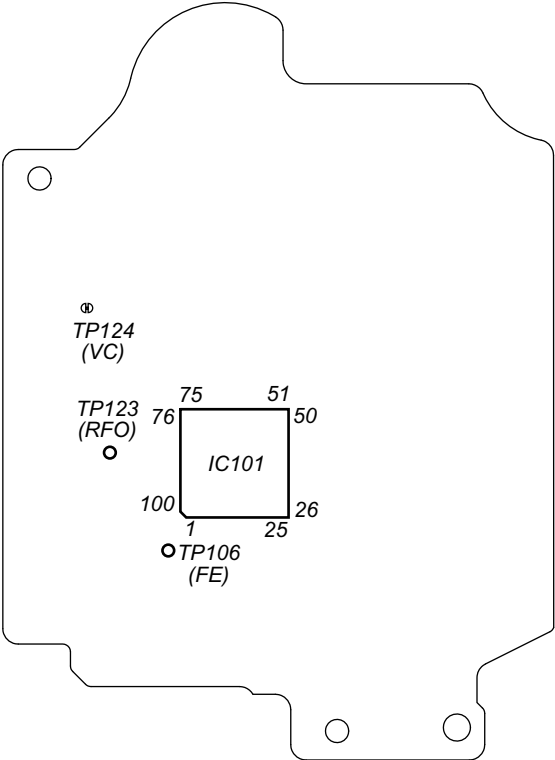
- 1. Connect an oscilloscope to TP123 (RFO) and TP124 (VC).
- 2. Turn the power on.
- 3. Load a disc (YEDS-18) and playback.
- 4. Confirm that oscilloscope waveform is clear and check if RF signal level is correct or not.

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

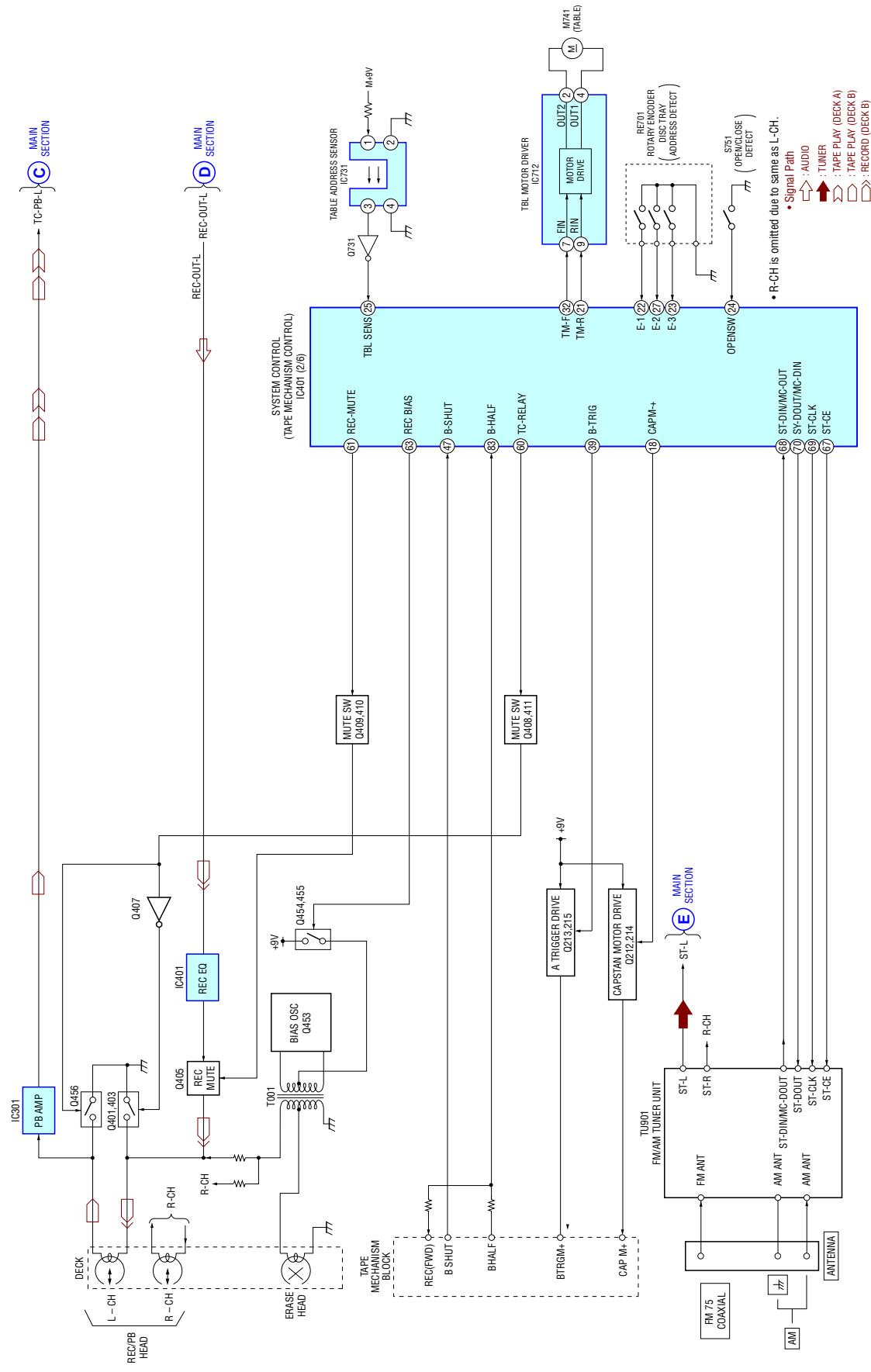


Connecting Location: CD board

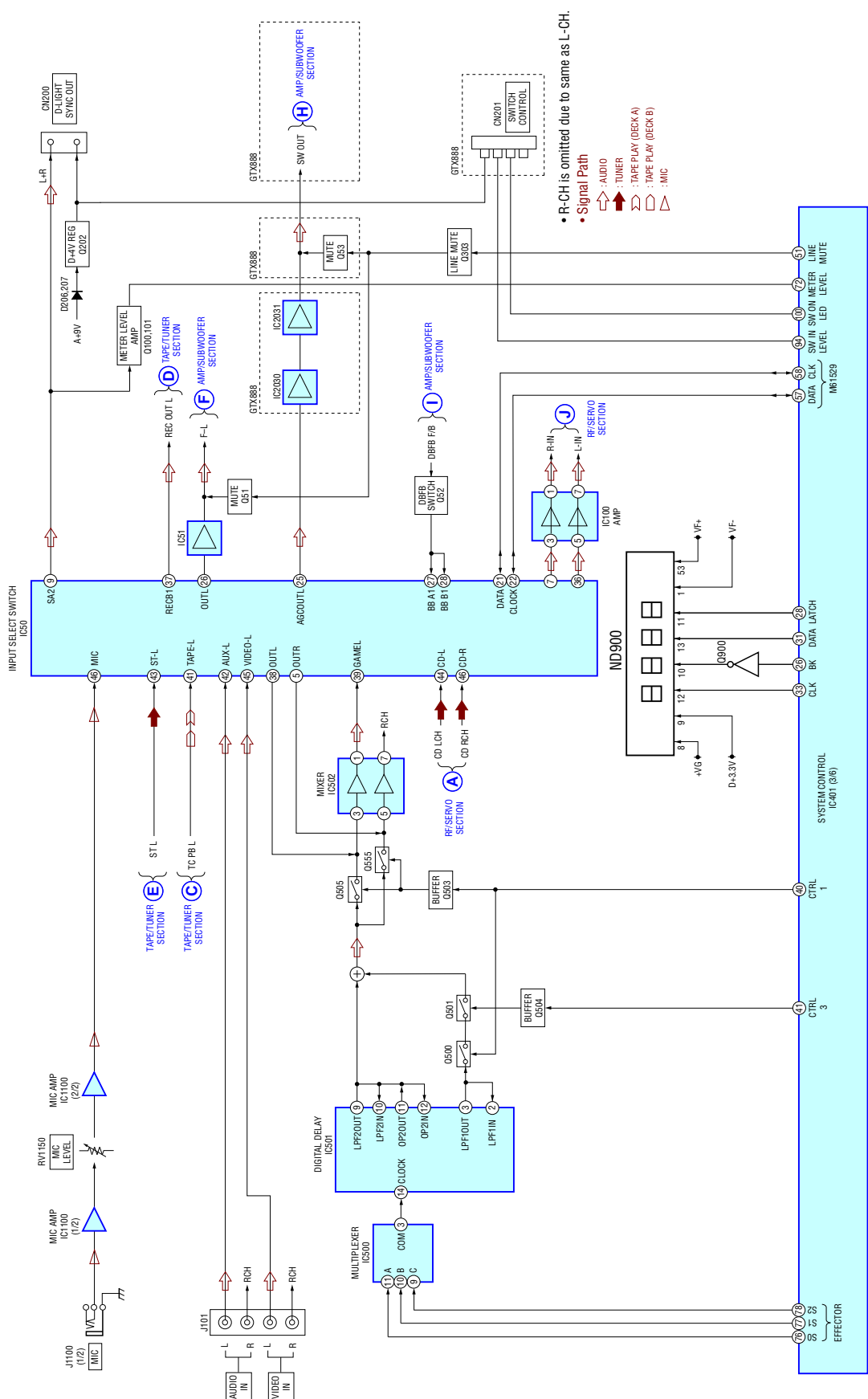
– BD93 Board (SIDE B) –



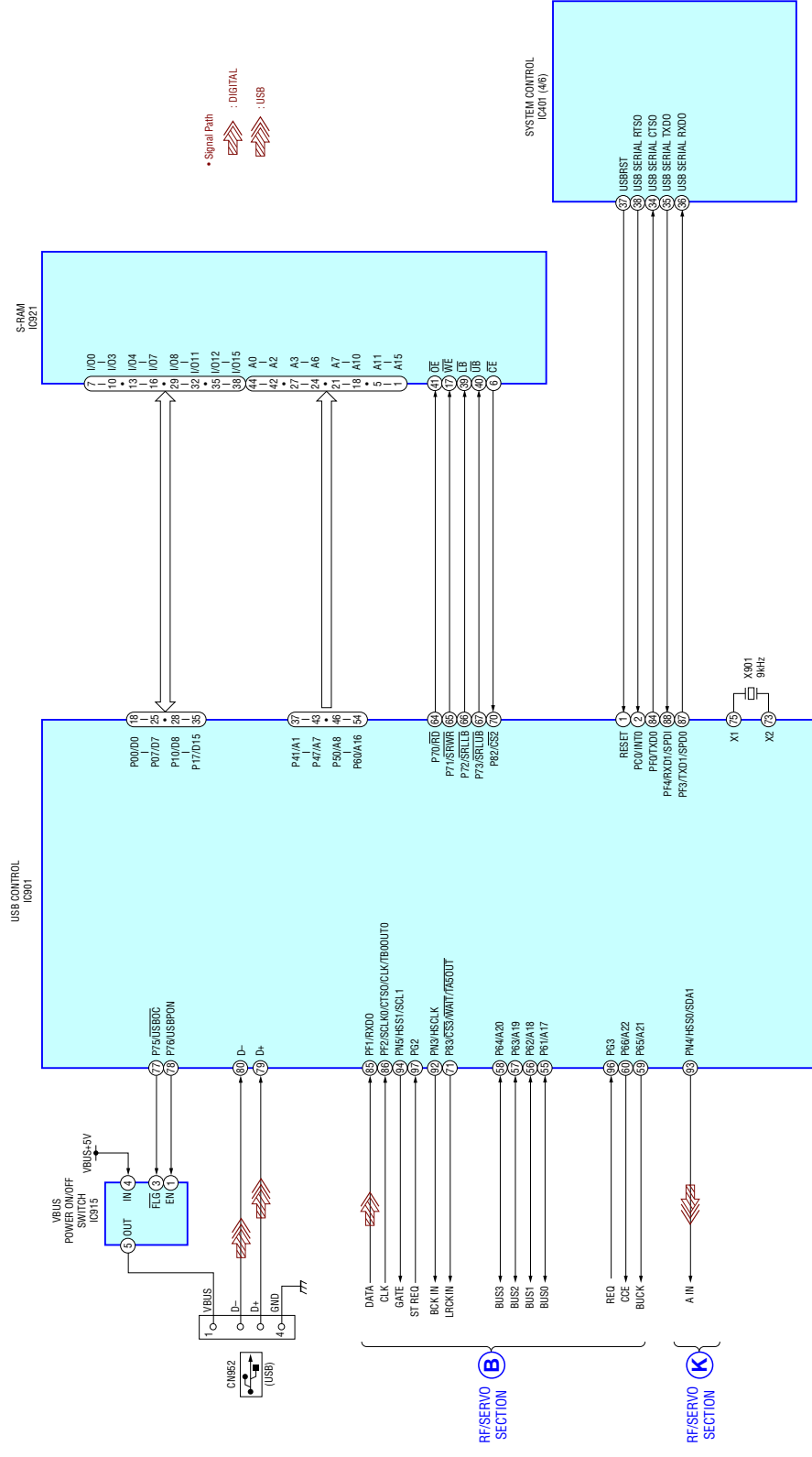
6-2. BLOCK DIAGRAM — TAPE/TUNER SECTION —



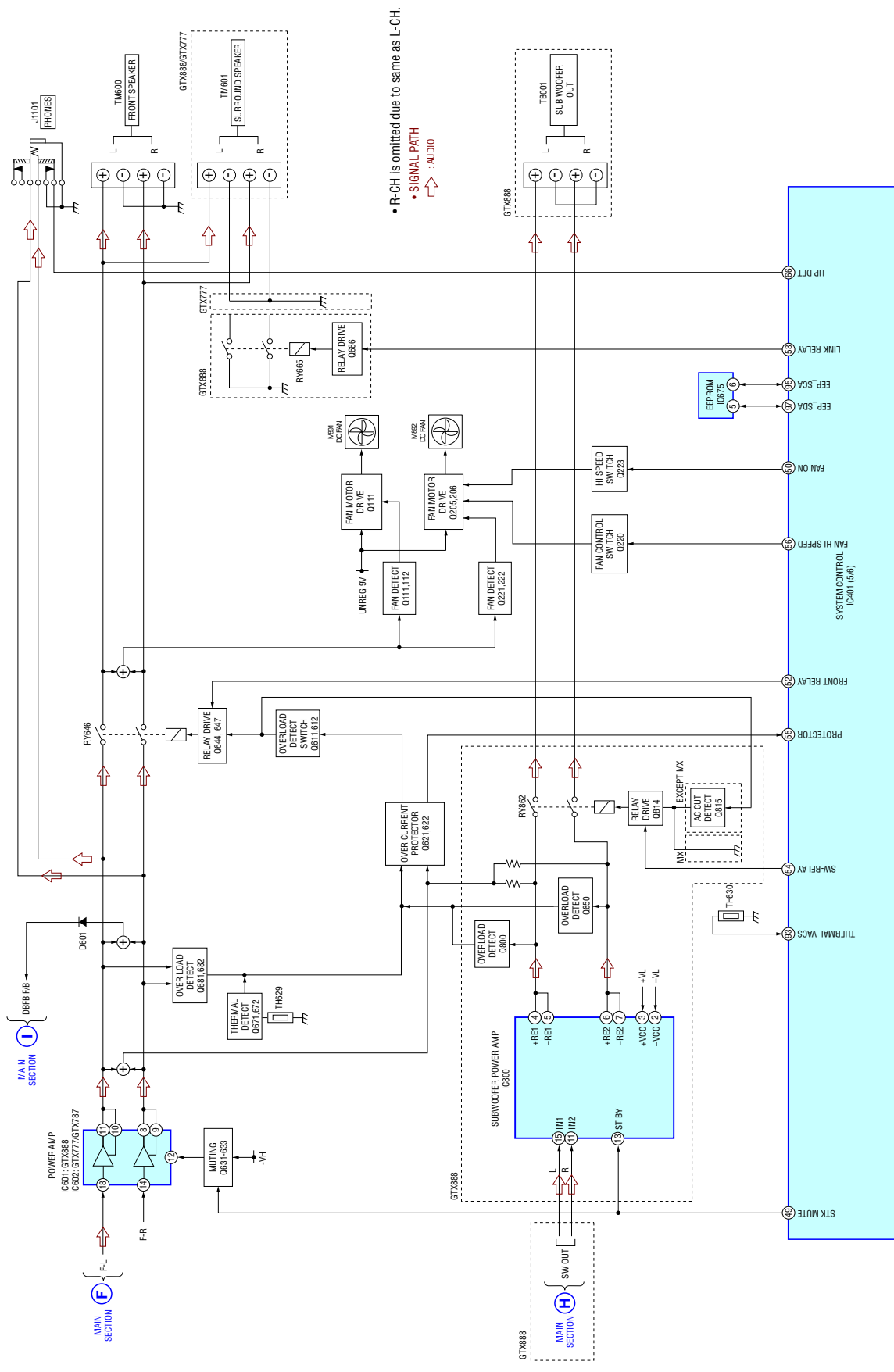
6-3. BLOCK DIAGRAM — MAIN SECTION —



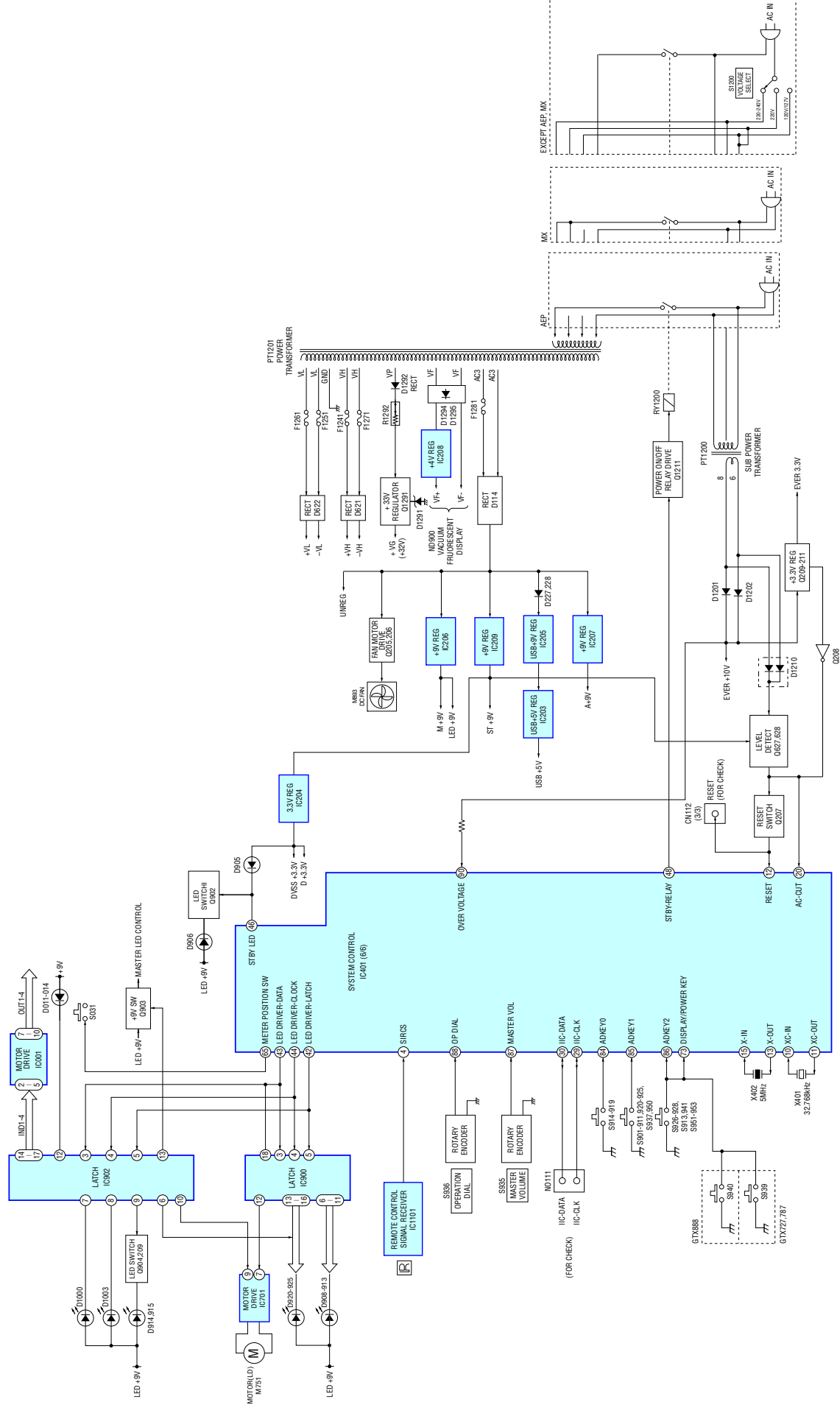
6-4. BLOCK DIAGRAM — USB SECTION —



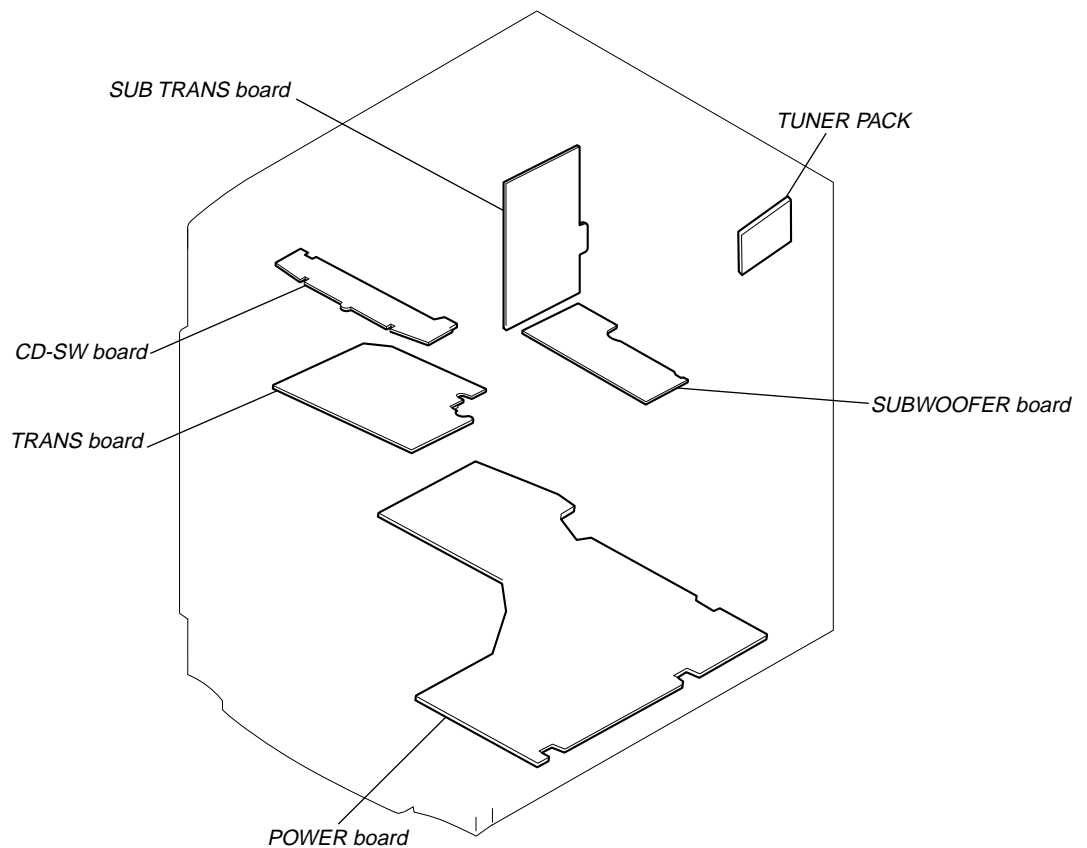
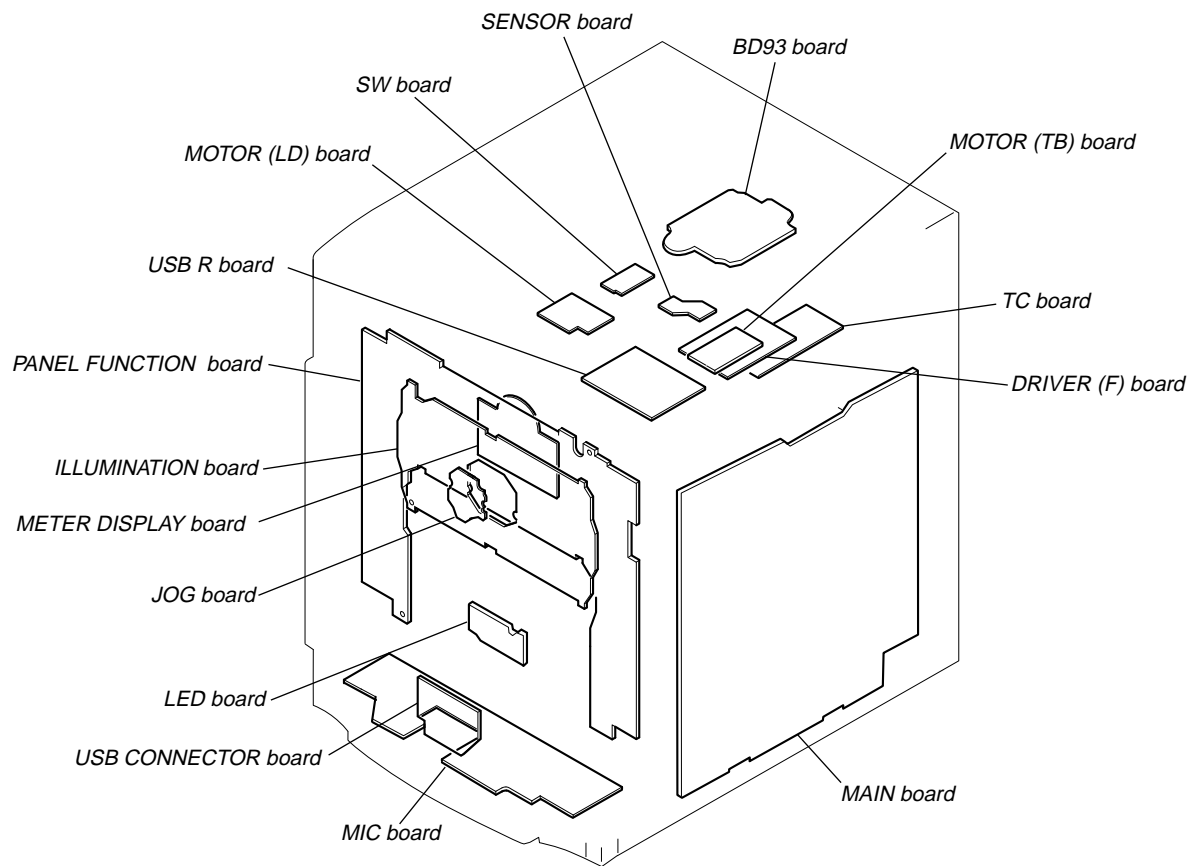
6-5. BLOCK DIAGRAM — AMP/SUBWOOFER SECTION —



6-6. BLOCK DIAGRAM — DISPLAY/POWER SECTION —






6-7. CIRCUIT BOARDS LOCATION



• Note For Printed Wiring Boards And Schematic Diagrams

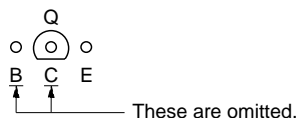
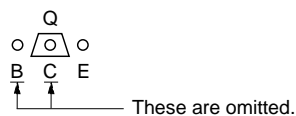
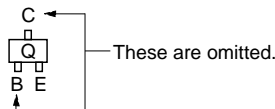
Note on Printed Wiring Board:

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

Caution:

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

- Indication of transistor.



UNLEADED SOLDER

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

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

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.

Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.

Soldering irons using a temperature regulator should be set to about 350 °C.

Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!



- Strong viscosity

Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.











- Usable with ordinary solder

It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

Note on Schematic Diagram:

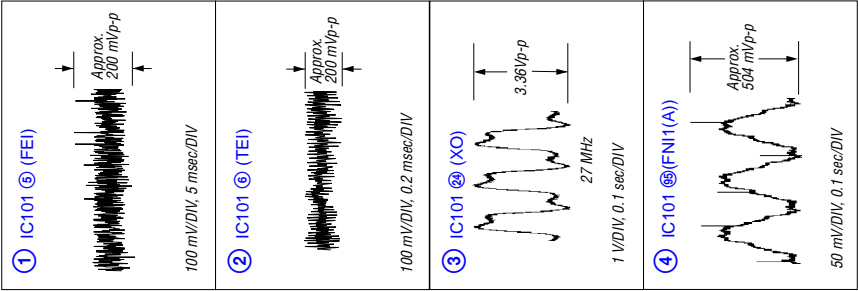
- All capacitors are in μF unless otherwise noted. (p: pF)
50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
-  : nonflammable resistor.
-  : panel designation.

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

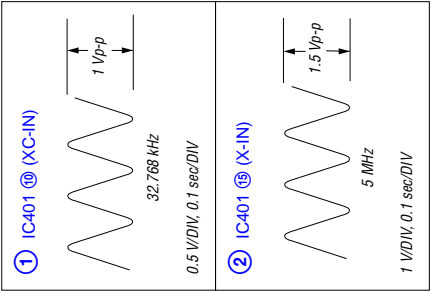
-  : B+ Line.
-  : B- Line.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- BD93 and Driver sections.
no mark : CD PLAY
- Except BD93 and Driver sections.
no mark : FM
() : CD PLAY
< > : TAPE PLAY
[] : TAPE REC
* : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 M Ω).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 : AUDIO
 : TUNER
 : TAPE PLAY
 : TAPE REC
 : MIC
 : CD PLAY
 : DIGITAL
 : USB
- Abbreviation
E2 : 120V AC area in E model
E3 : Middle Eastern, African and Indian model
E51 : Chilean and Peruvian model
AR : Argentina model
AUS : Australian model
MX : Mexican model

• Waveforms

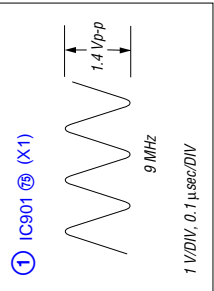
— BD93 BOARD — (CD PLAY)



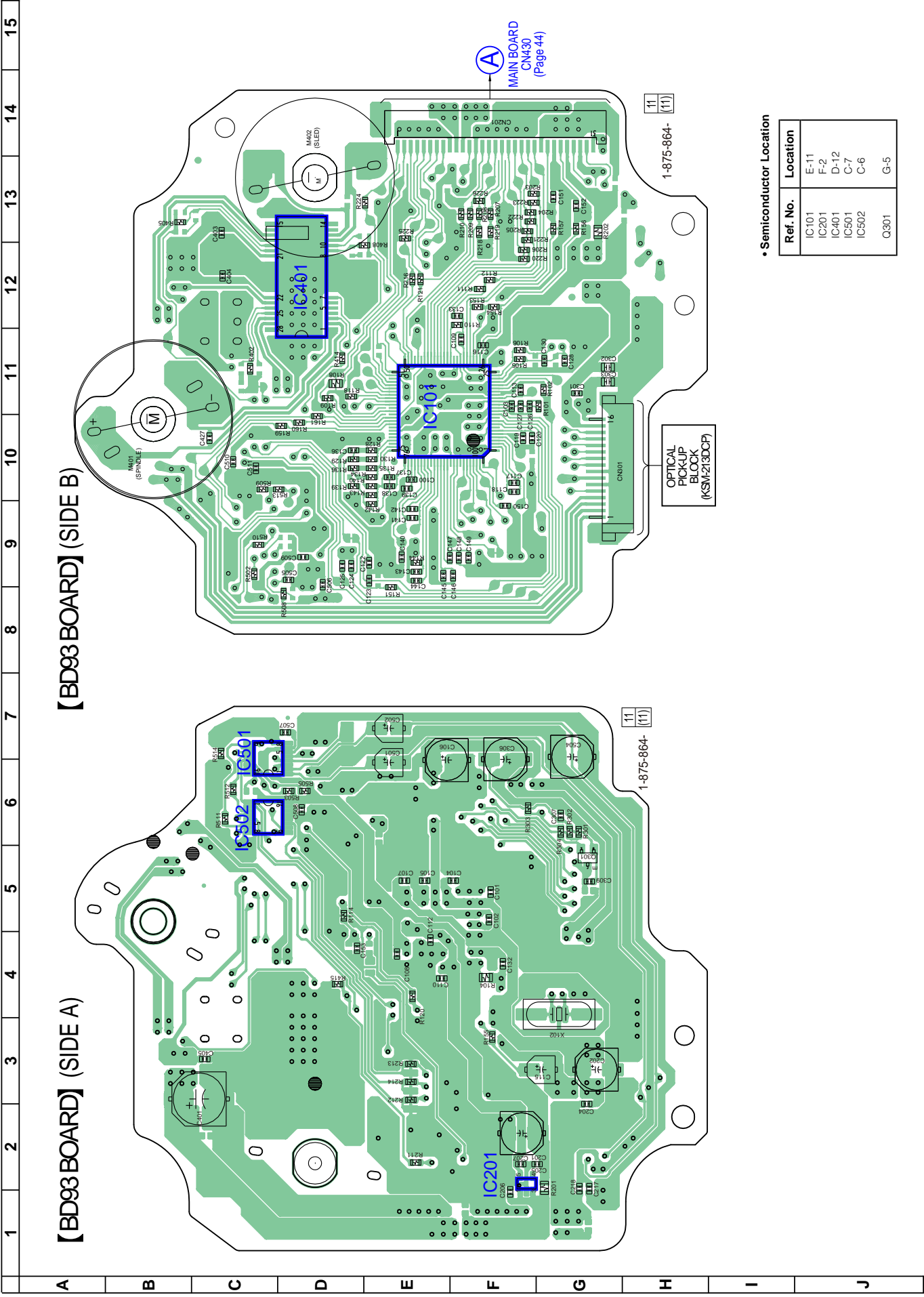
— MAIN BOARD —

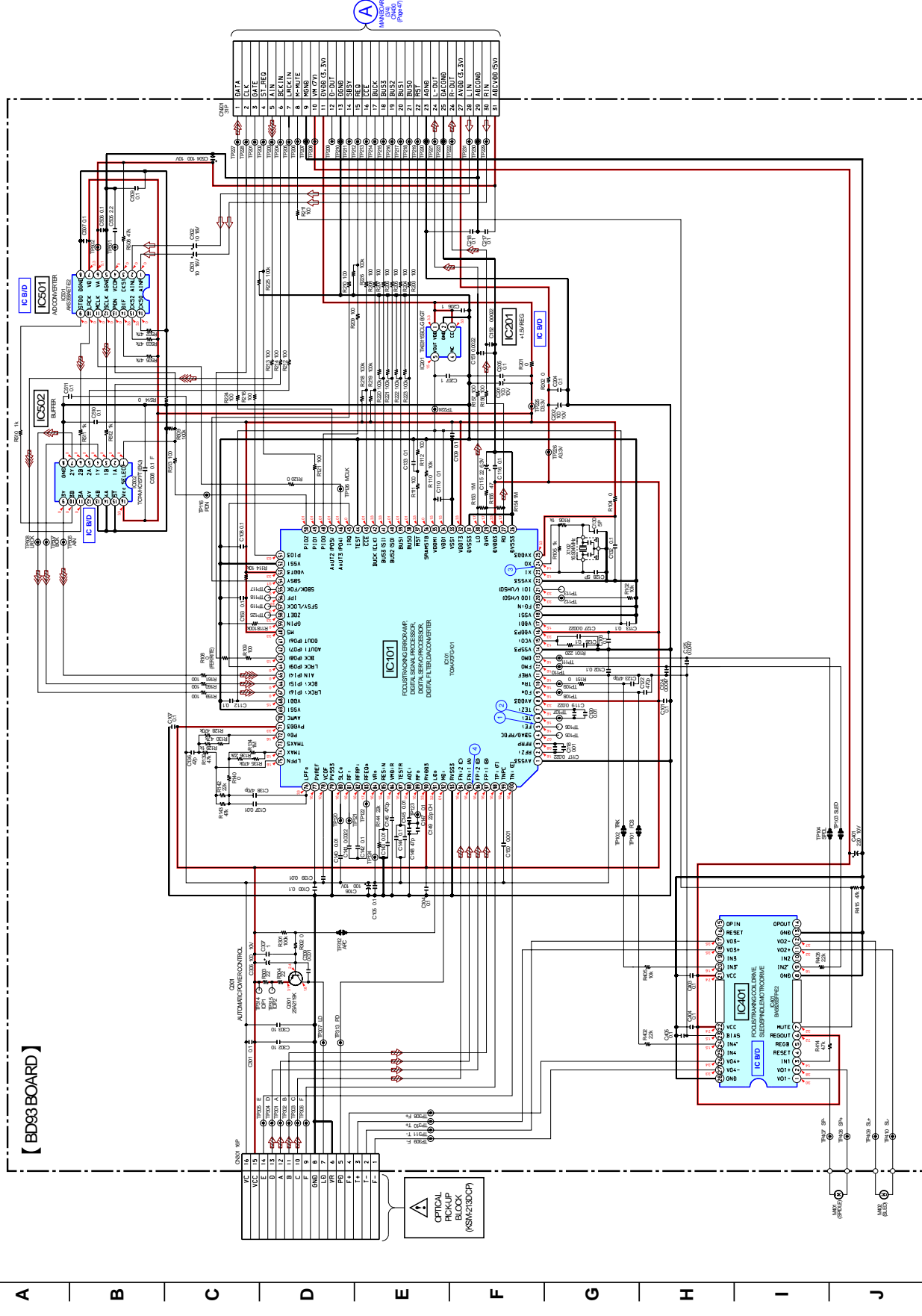


— USB BOARD —

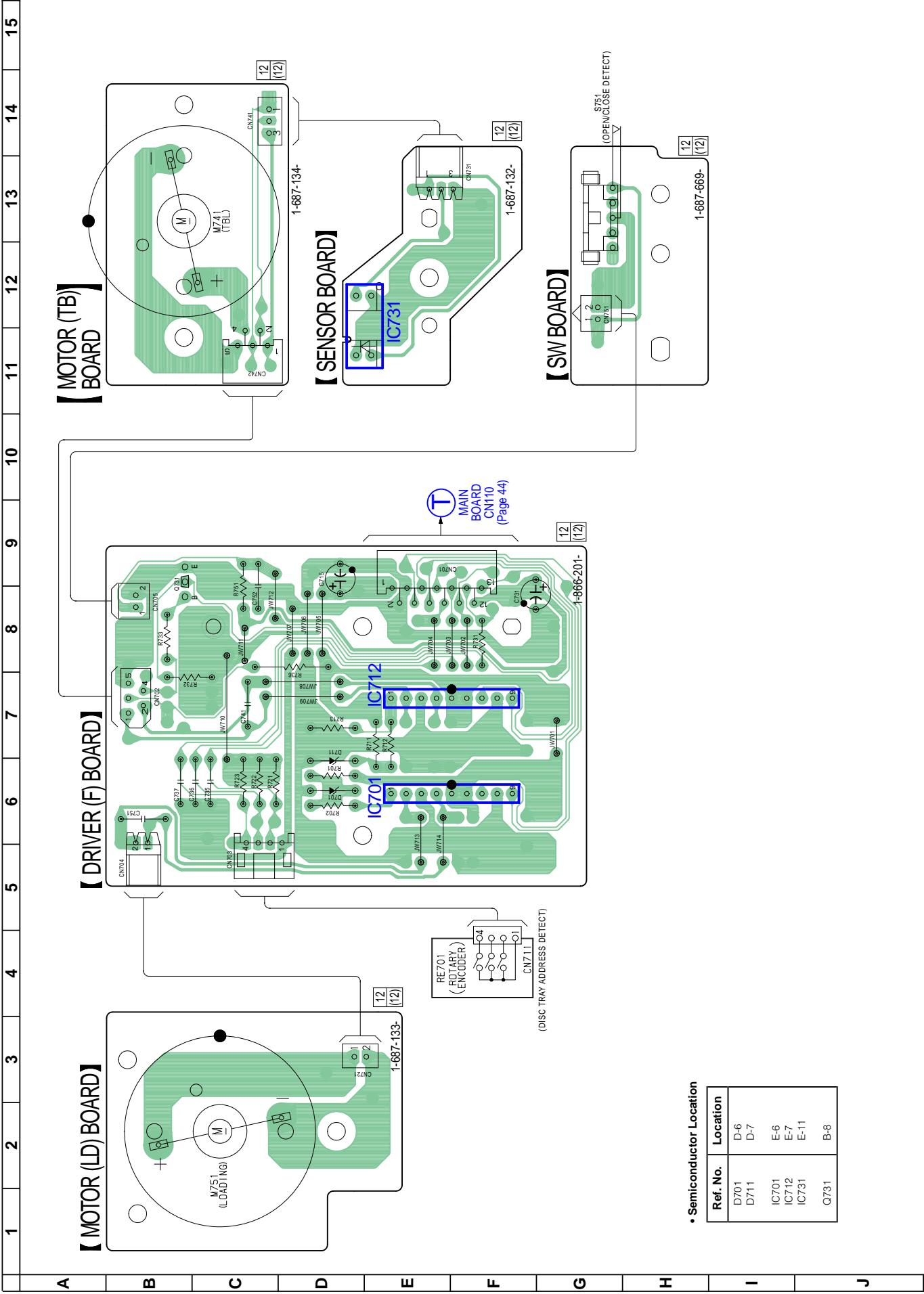


6-8. PRINTED WIRING BOARD — BD93 BOARD — • Refer to page 37 for Circuit Boards Location.  : Uses unleaded solder.






6-10. PRINTED WIRING BOARDS — DRIVER BOARD — • Refer to page 37 for Circuit Boards Location. **F** : Uses unleaded solder.

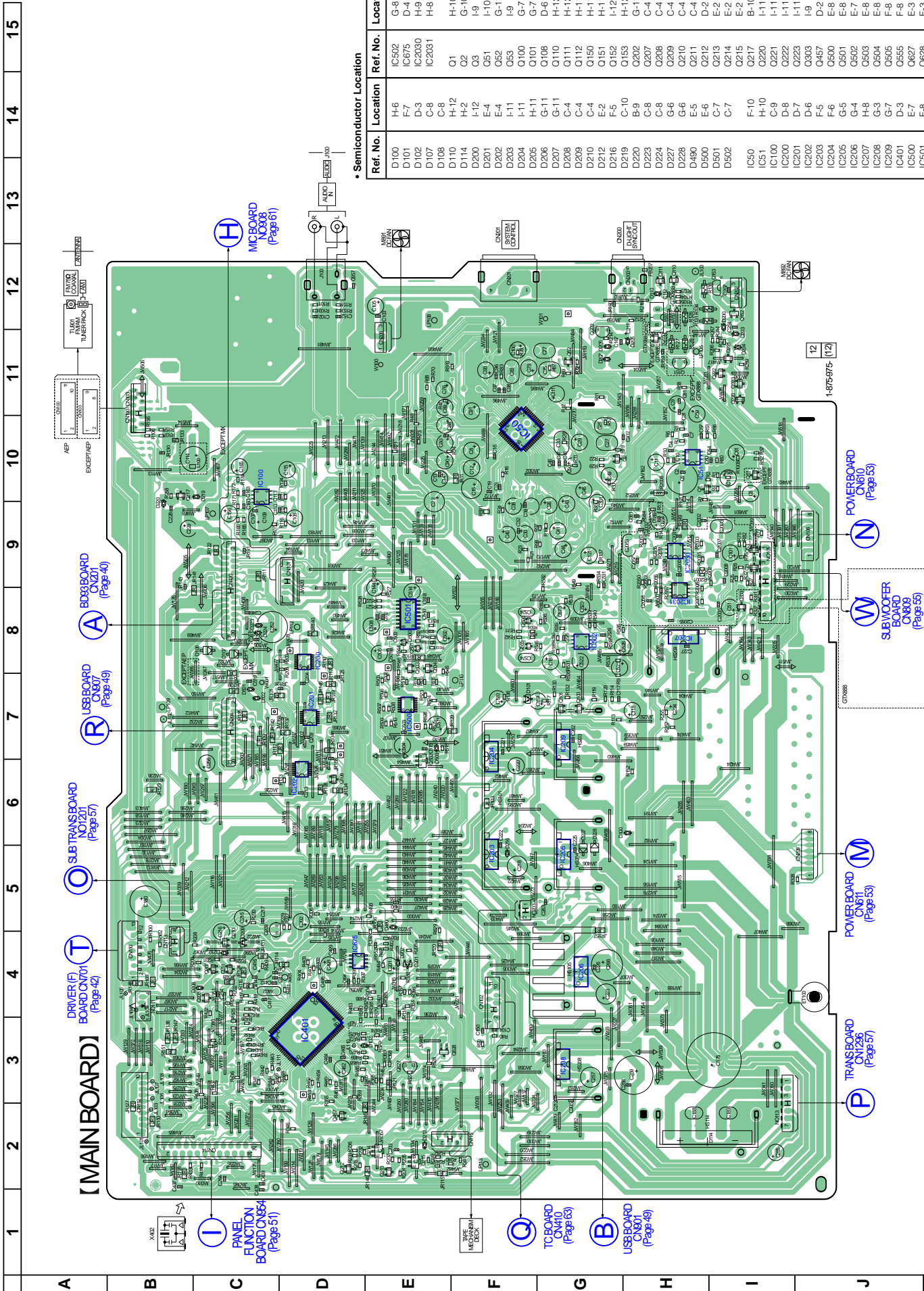


• Semiconductor Location

Ref. No.	Location
D701	D-6
D711	D-7
IC701	E-6
IC712	E-7
IC731	E-11
Q731	B-8

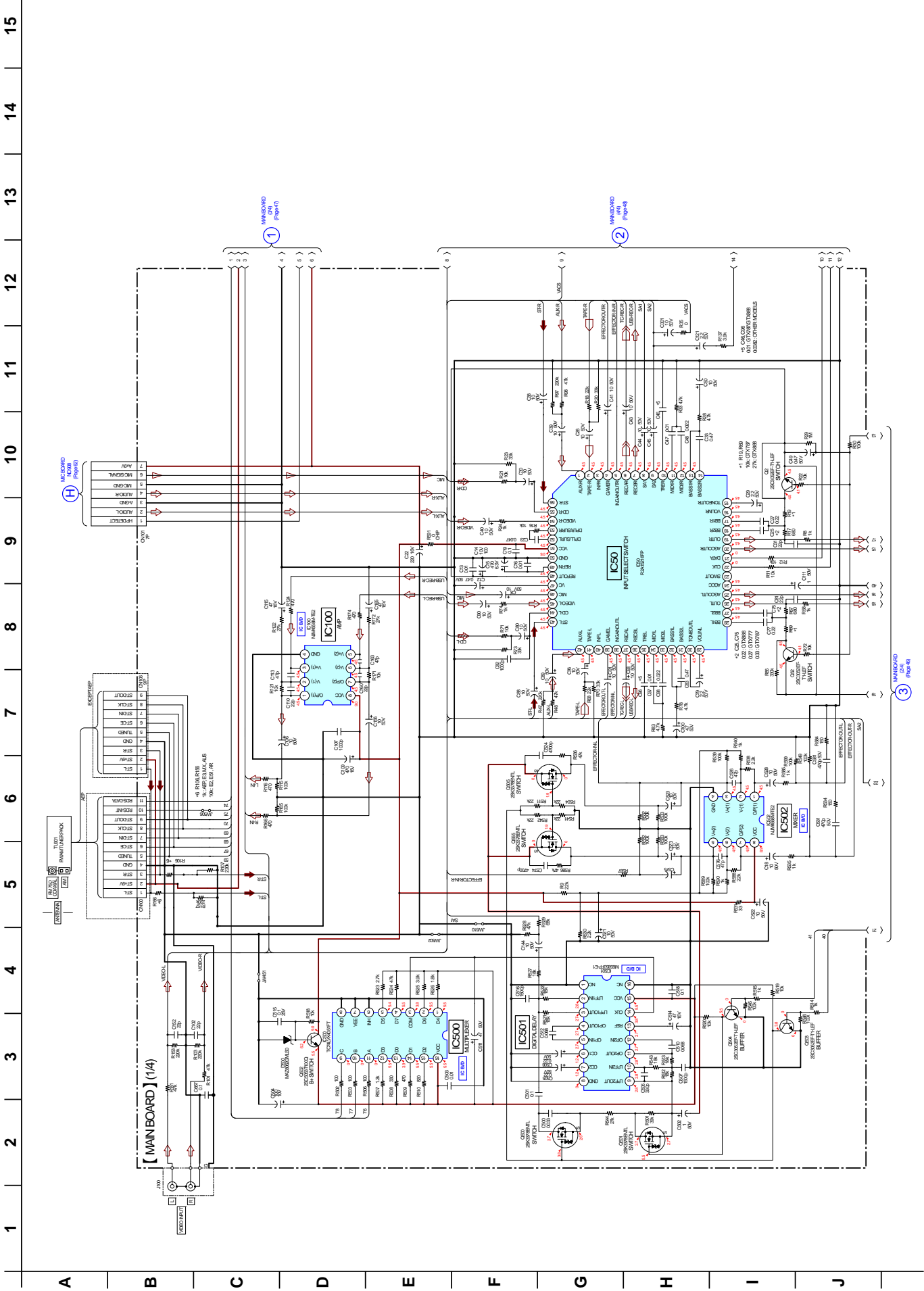


6-12. PRINTED WIRING BOARD — MAIN BOARD —  : Uses unloaded solder.

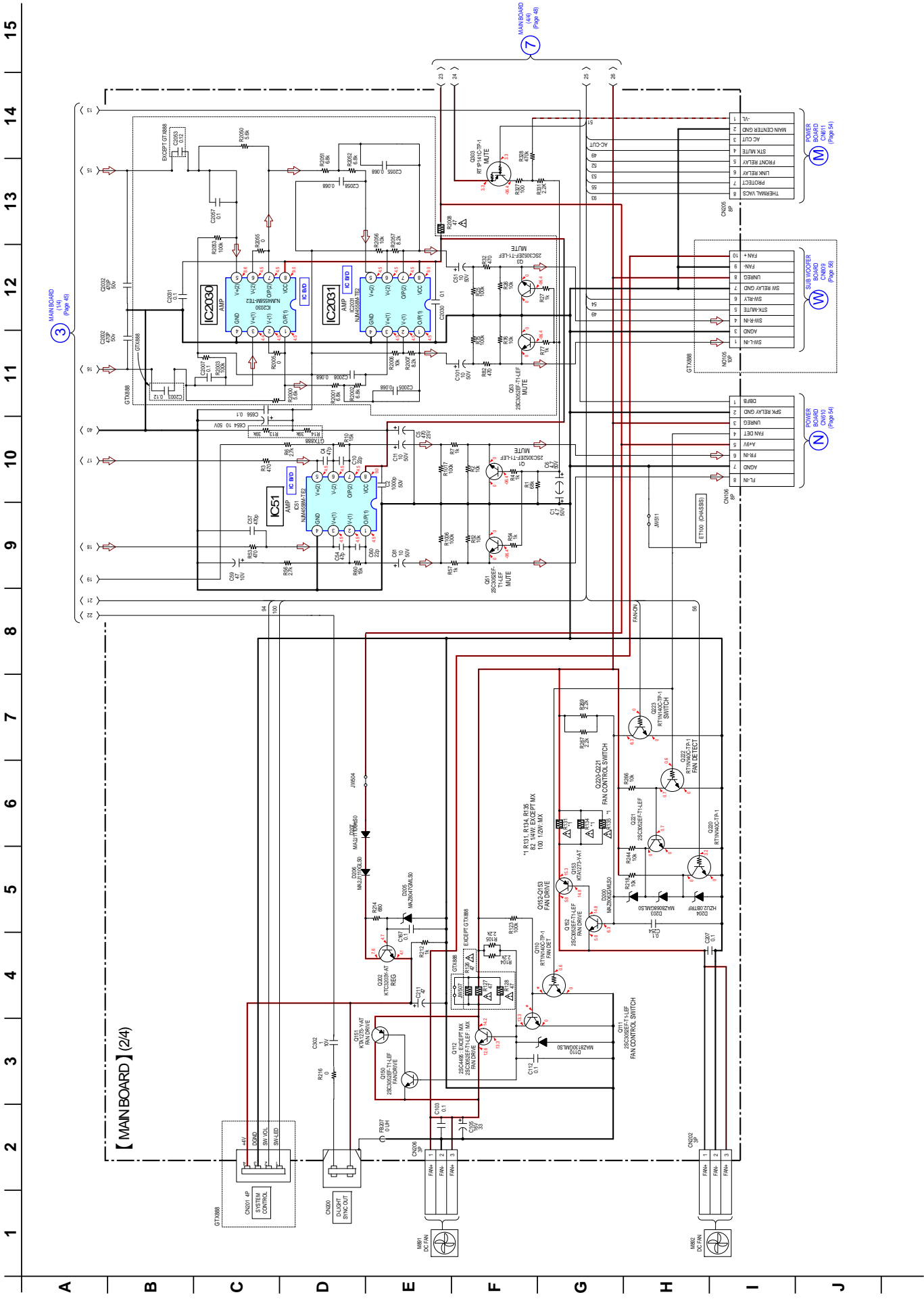


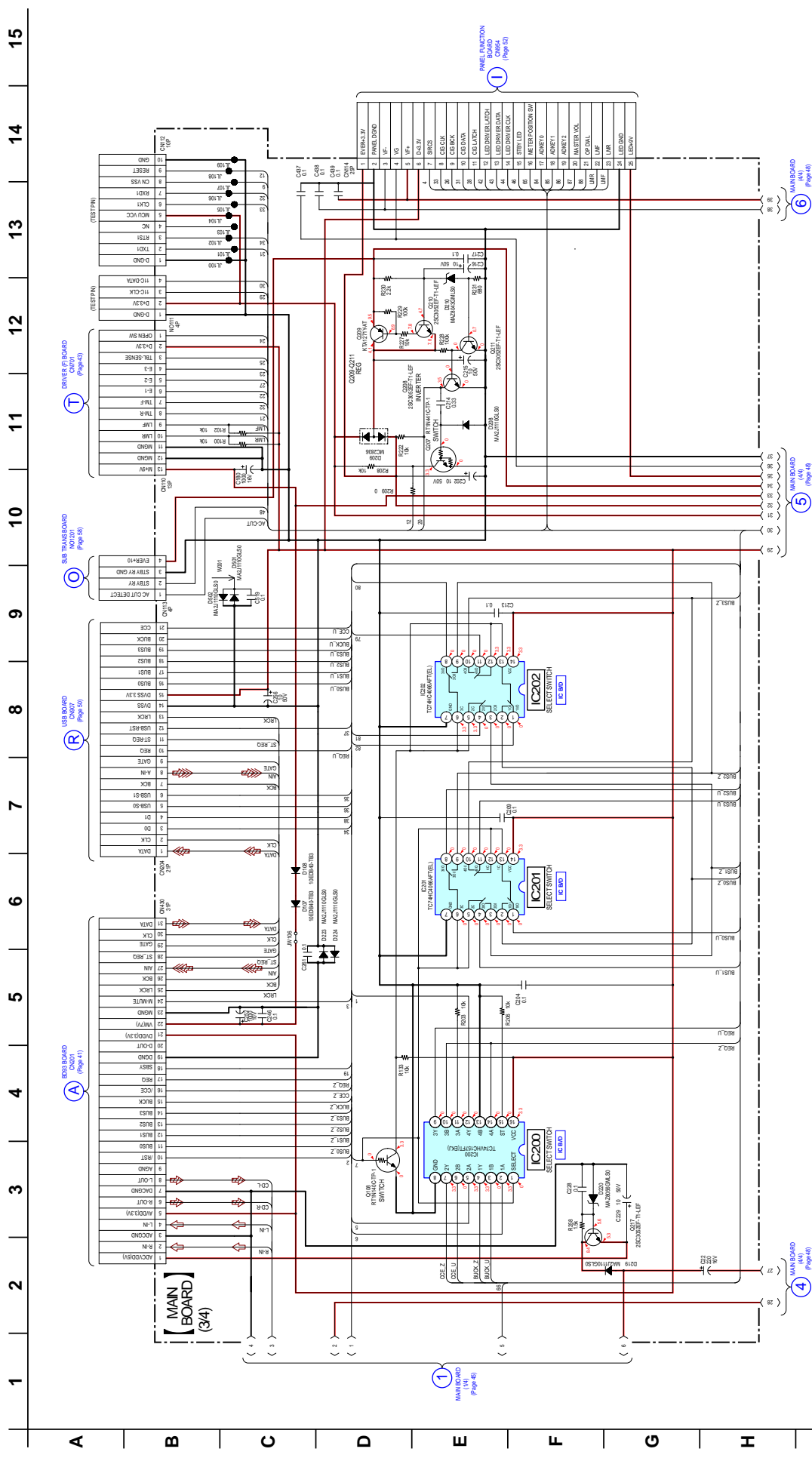
• Semiconductor Location		
Ref. No.	Location	Location
D100	H-6	G-8
D101	F-7	D-4
D102	D-3	H-9
D107	C-8	H-8
D108	C-8	
D110	H-12	
D114	H-2	H-10
D200	I-12	I-9
D201	E-4	Q3
D202	I-11	Q51
D203	E-4	Q52
D204	I-11	Q53
D205	H-11	G-7
D206	G-11	D-6
D207	G-11	H-12
D208	C-4	H-12
D209	C-4	H-11
D210	C-4	H-11
D212	E-2	H-11
D216	F-5	I-12
D219	C-10	H-12
D220	B-9	G-11
D223	C-8	C-4
D224	C-8	C-4
D227	G-6	C-4
D228	G-6	C-4
D229	G-6	C-4
D490	E-5	C-2
D500	E-6	D-2
D501	C-7	E-2
D502	C-7	E-2
C50	F-10	B-10
C51	H-10	I-11
C100	C-9	I-11
C200	D-8	I-11
C201	D-7	I-11
C202	D-6	I-9
C203	F-5	Q303
C204	F-6	Q457
C205	G-5	Q500
C206	G-4	Q501
C207	H-8	Q502
C208	G-3	Q503
C209	G-7	Q504
C401	D-3	Q505
C500	E-7	Q506
C501	E-8	Q507

6-13. SCHEMATIC DIAGRAM — MAIN BOARD (1/4) — • Refer to page 67 IC Block Diagrams.

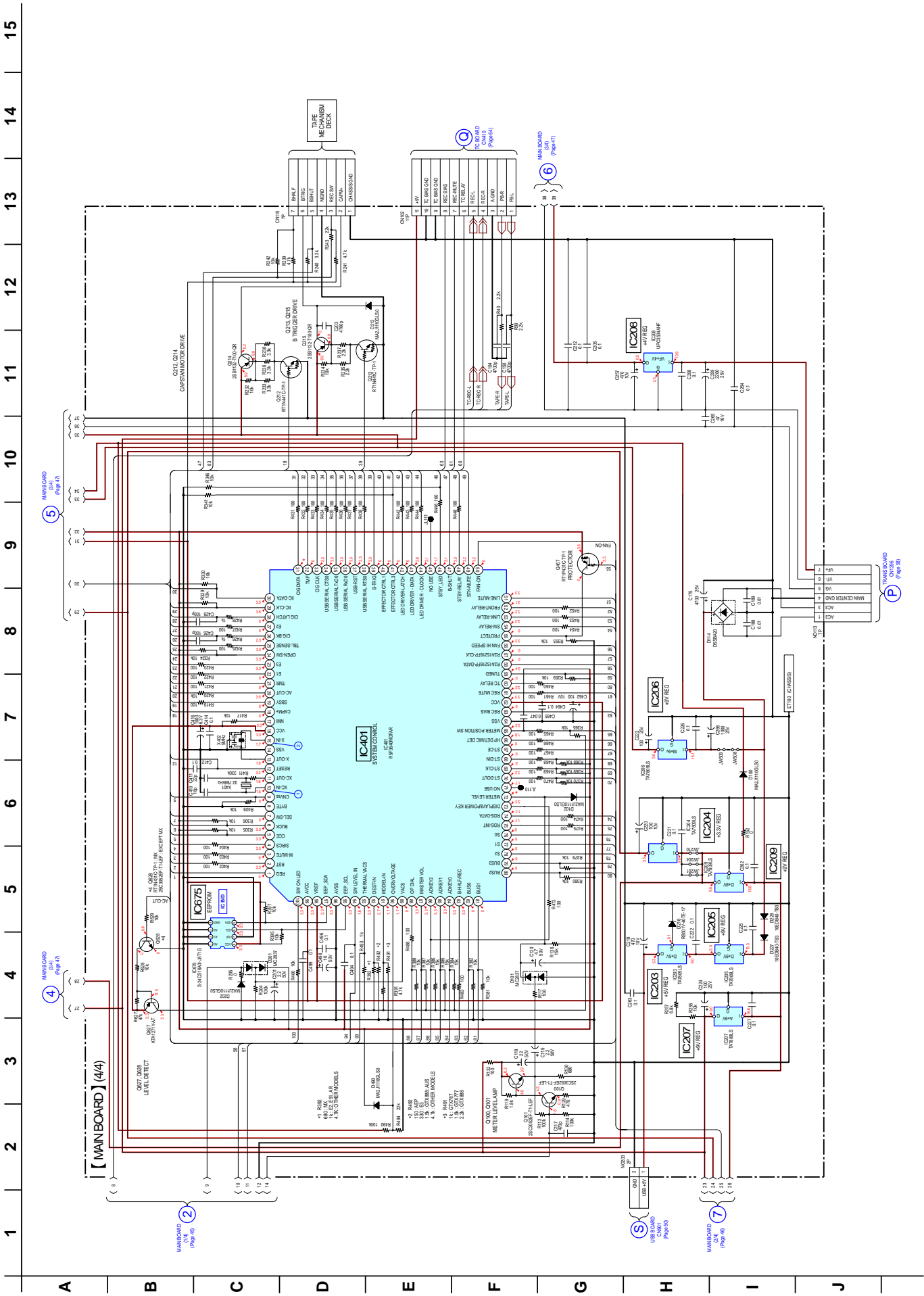


6-14. SCHEMATIC DIAGRAM — MAIN BOARD (2/4) — • Refer to page 67 for IC Block Diagrams.



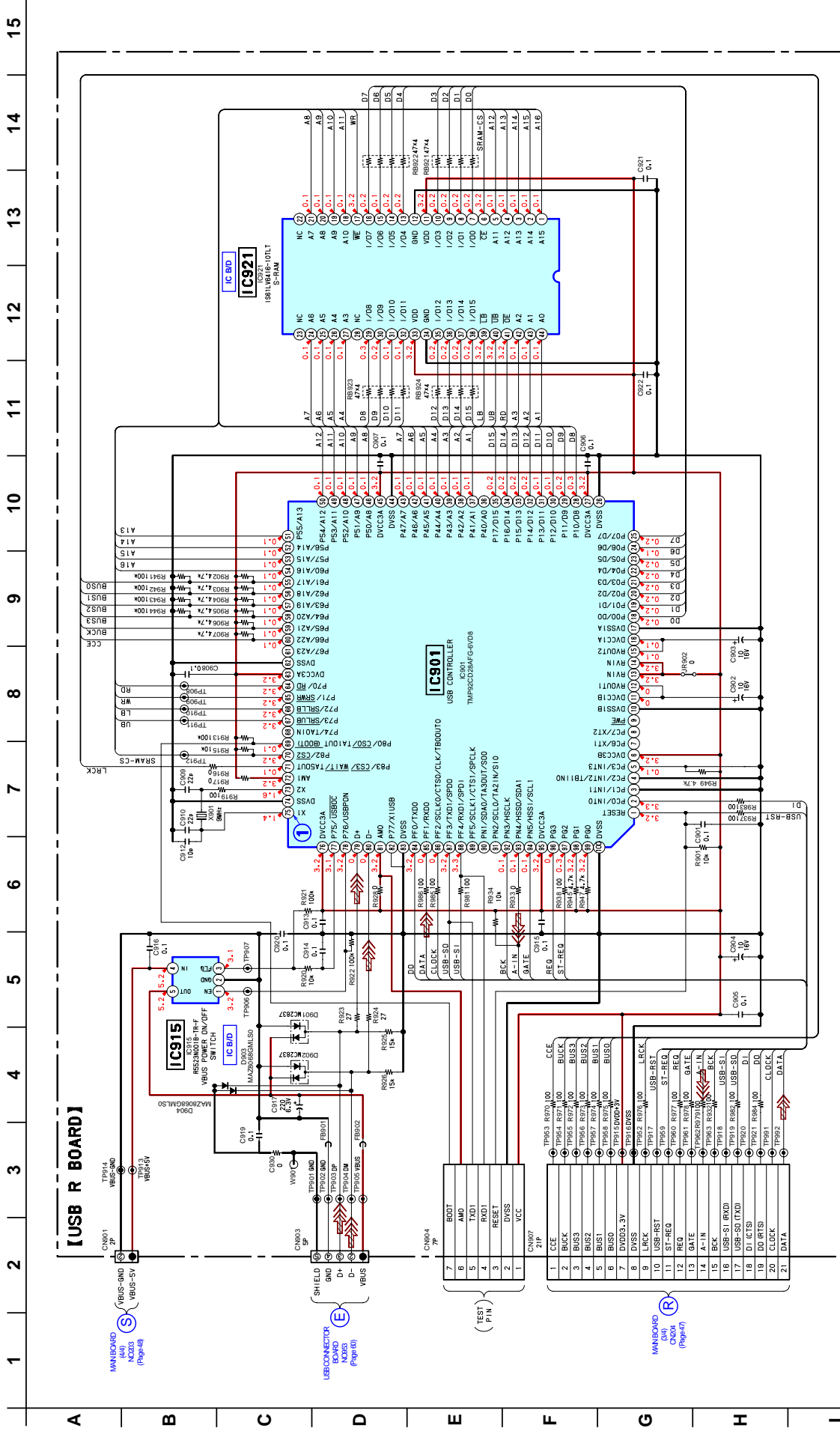


6-16. SCHEMATIC DIAGRAM — MAIN BOARD (4/4) — • Refer to page 67 IC Block Diagrams.

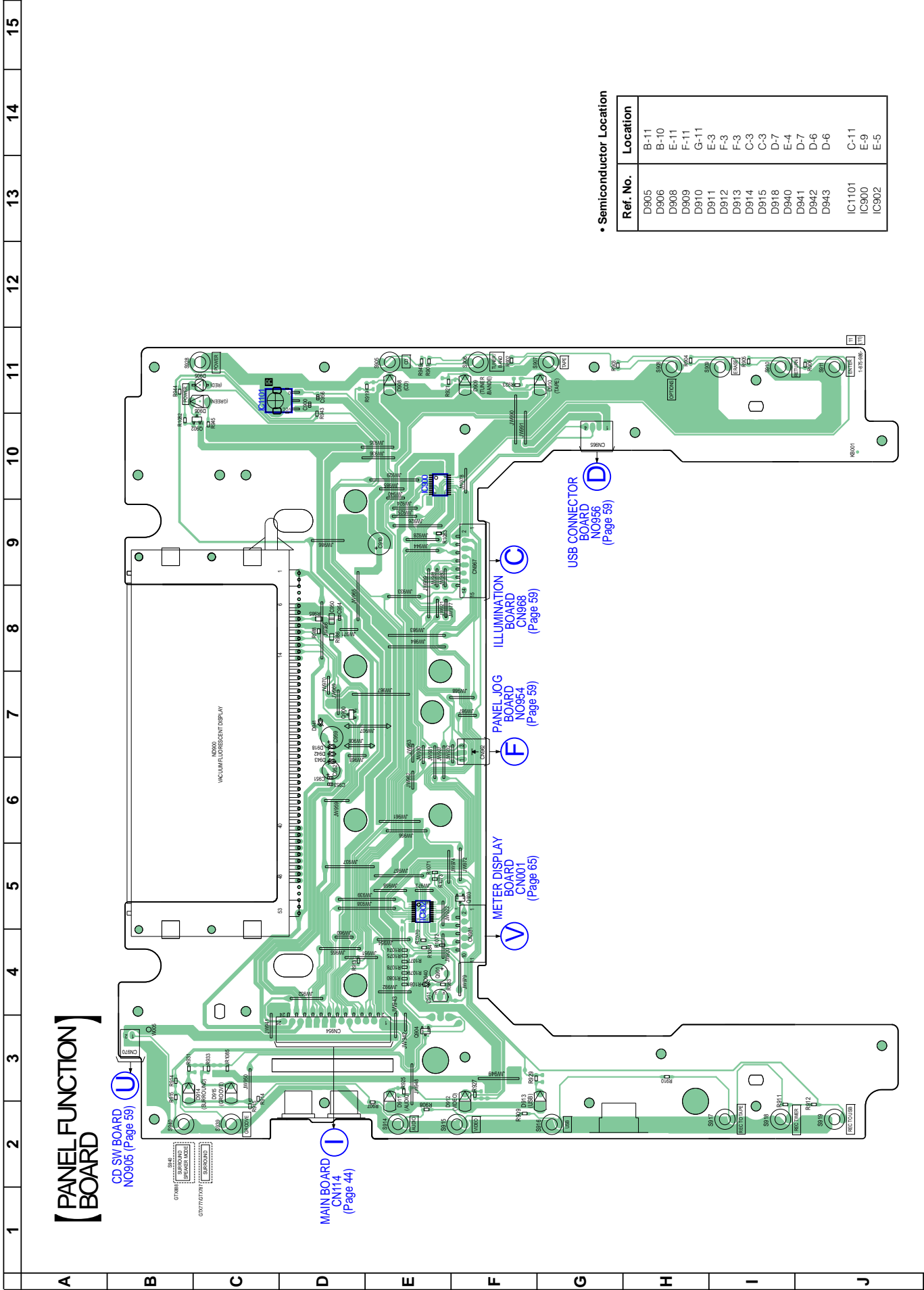


• Refer to page 39 for Waveforms.
• Refer to page 67 IC Block Diagrams.

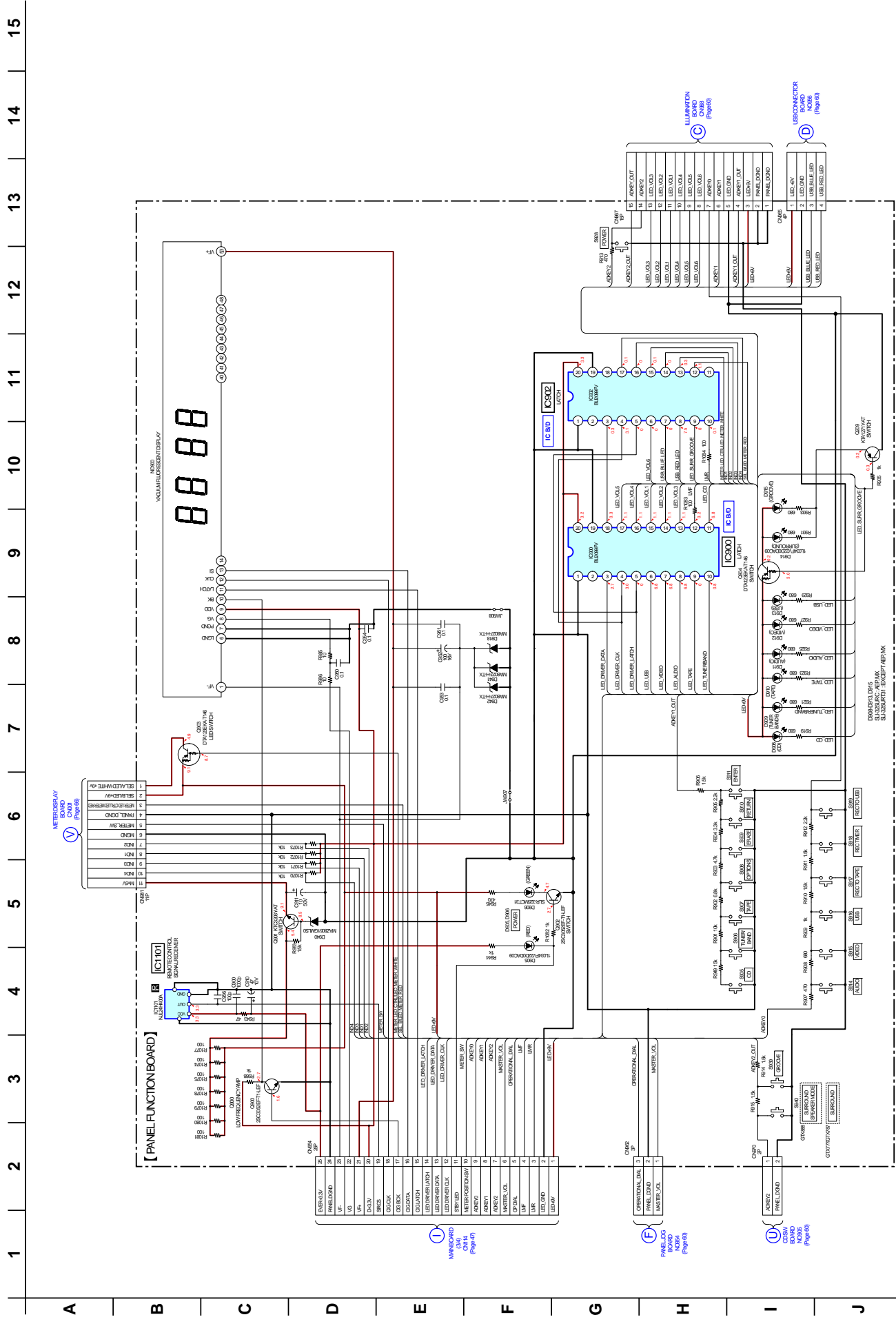
6-18. SCHEMATIC DIAGRAM — USB R BOARD —



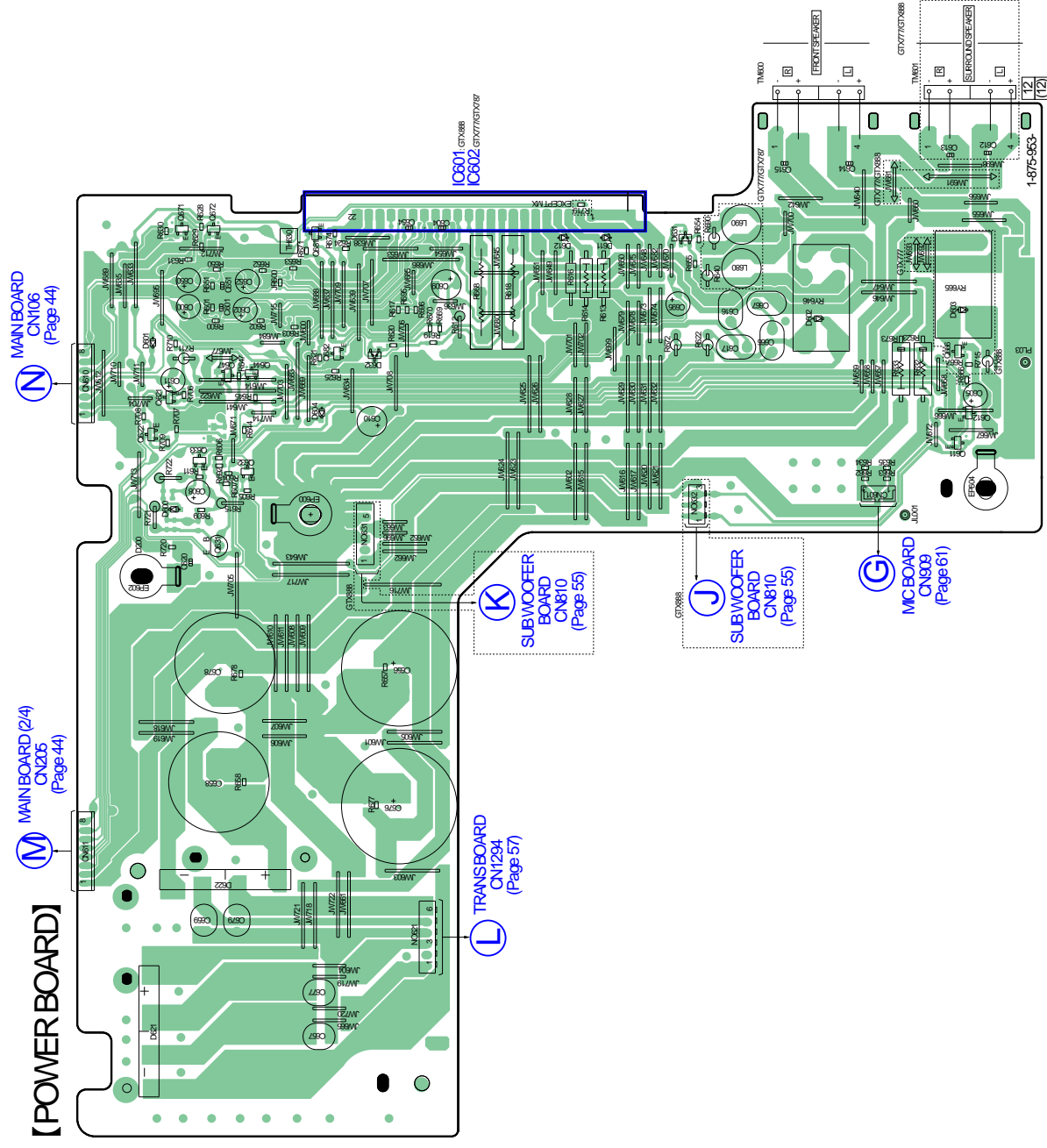
6-19. PRINTED WIRING BOARD — PANEL FUNCTION BOARD — • Refer to page 37 for Circuit Boards Location. **LF** : Uses unleaded solder.



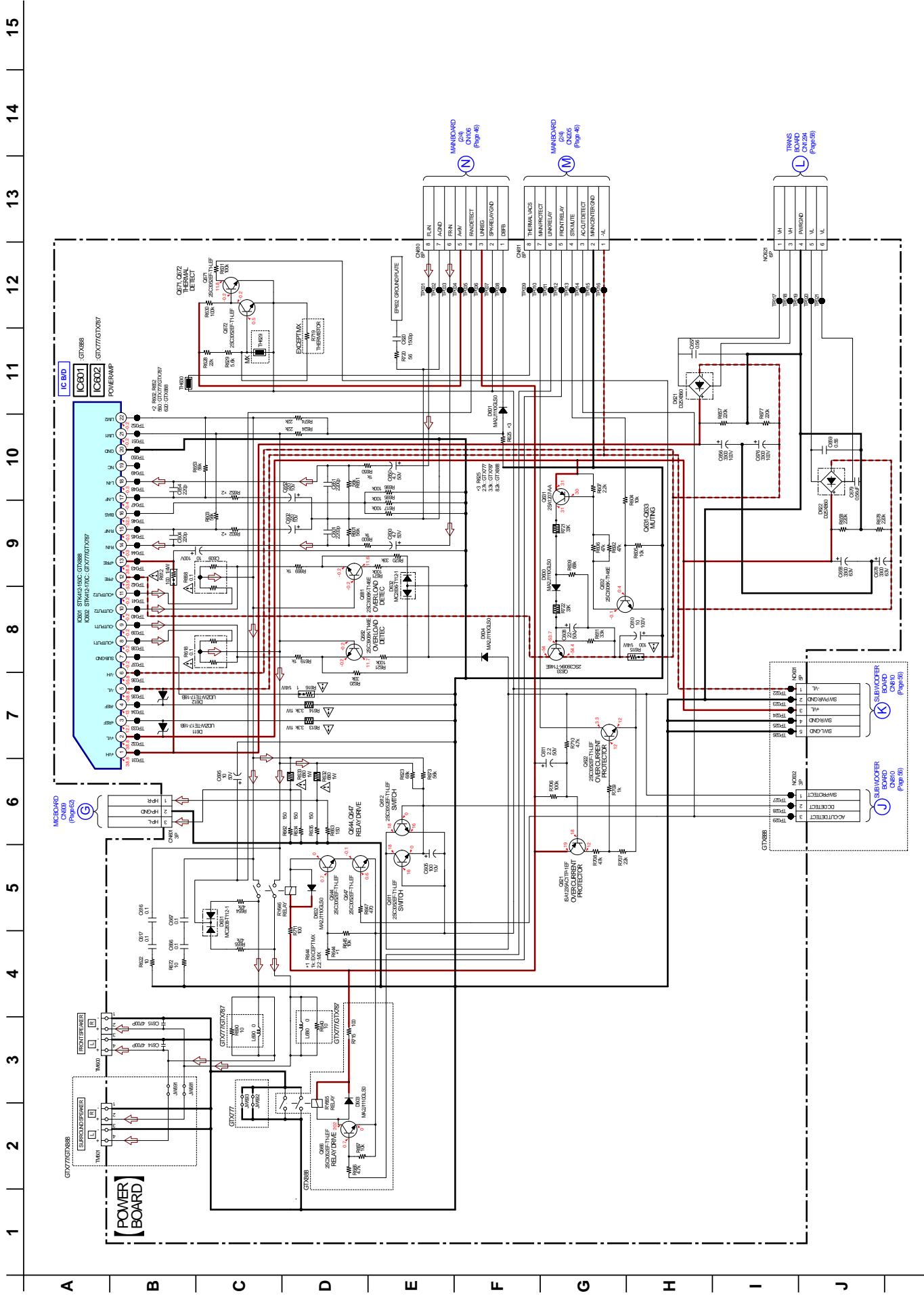
6-20. SCHEMATIC DIAGRAM — PANEL FUNCTION BOARD —

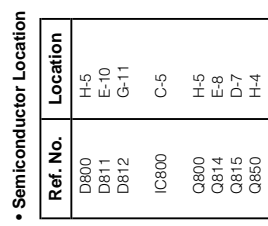


Ref. No.	Location
D600	B-7
D601	B-8
D602	H-8
D603	I-8
D604	D-8
D611	F-9
D612	F-9
D621	B-2
D622	C-3
D631	G-9
D632	D-8
IC601	E-10
IC602	E-10
Q611	J-7
Q612	J-8
Q621	B-8
Q622	B-7
Q631	B-6
Q632	C-7
Q633	B-7
Q644	C-8
Q647	C-8
Q666	I-8
Q671	B-9
Q672	C-9
Q681	D-9
Q682	D-8

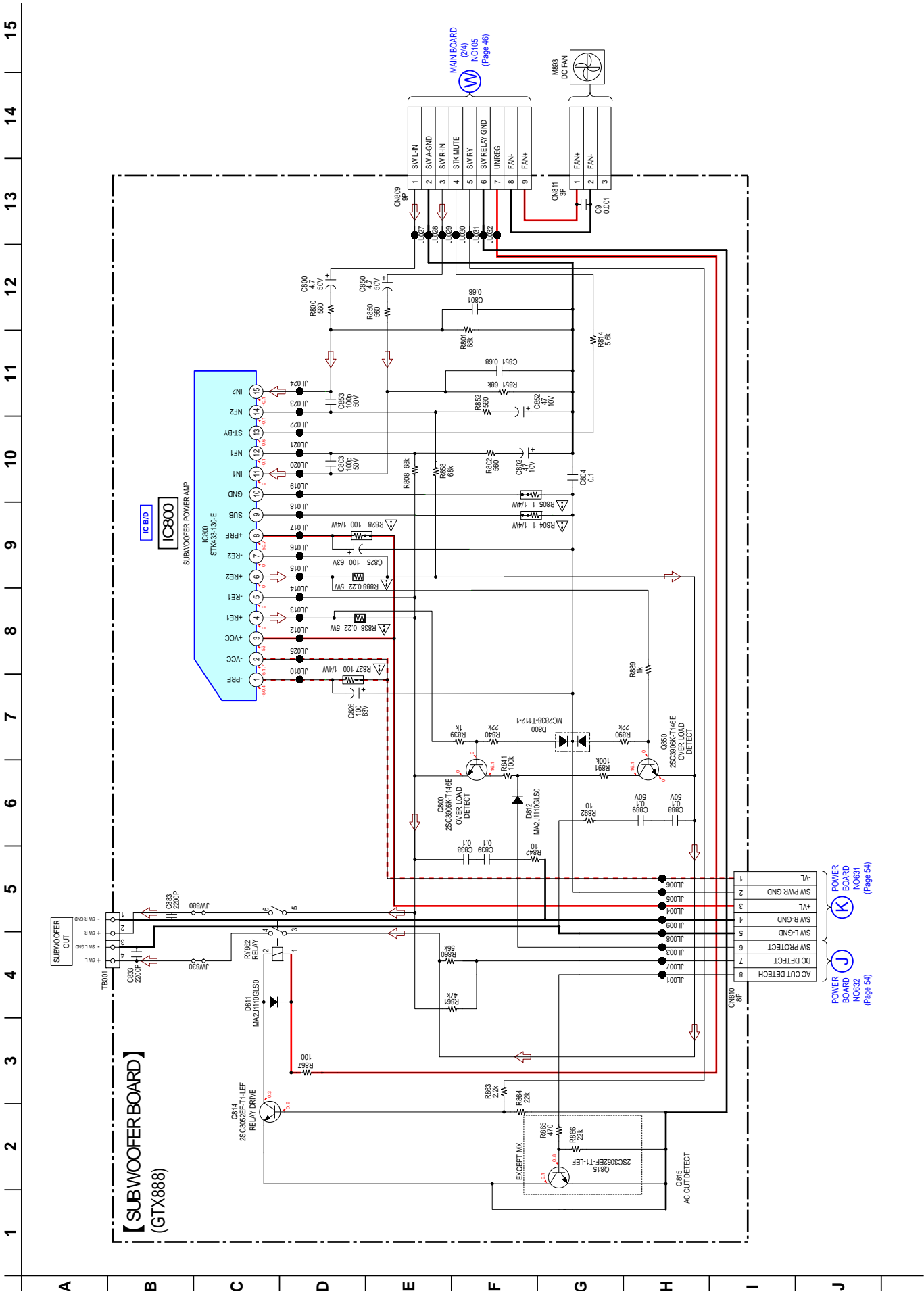


6-22. SCHEMATIC DIAGRAM — POWER BOARD — • Refer to page 67 IC Block Diagrams.





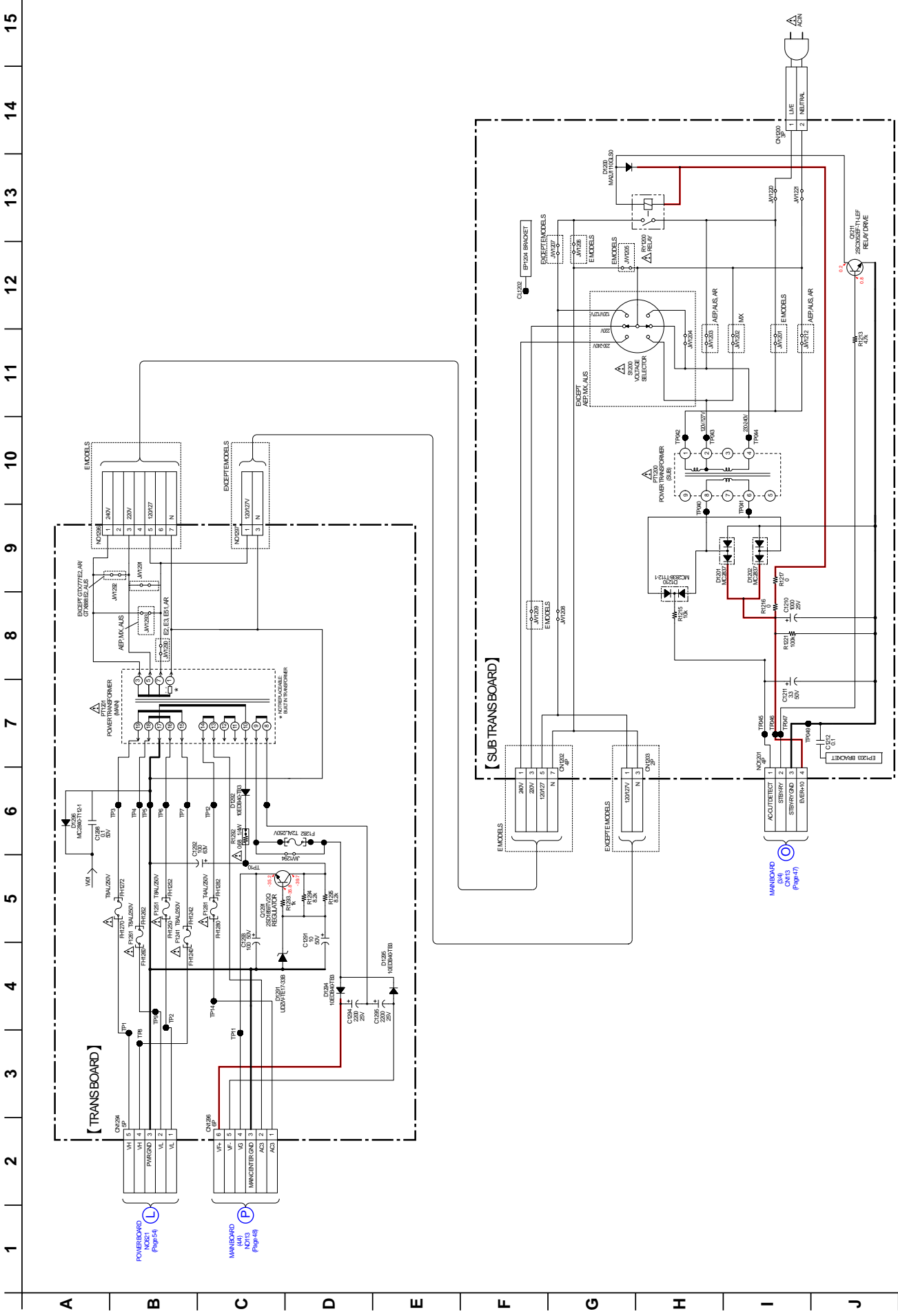
6-24. SCHEMATIC DIAGRAM — SUBWOOFER BOARD — • Refer to page 67 IC Block Diagrams.





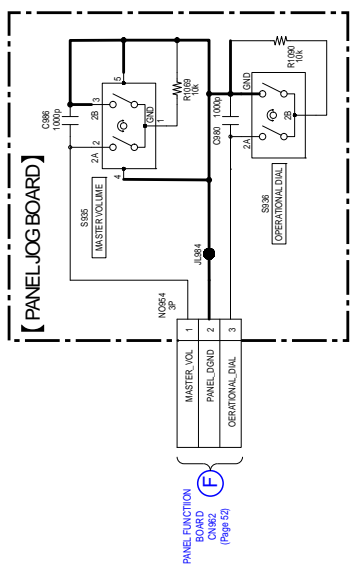
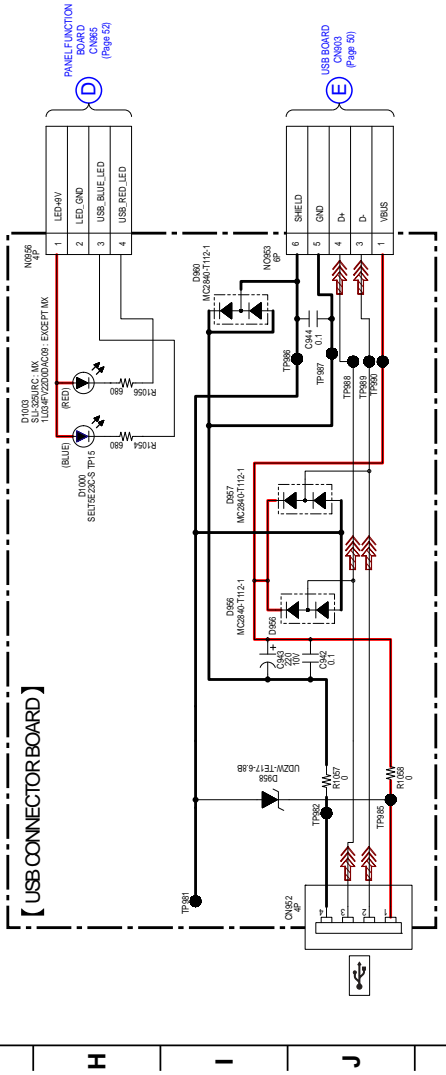
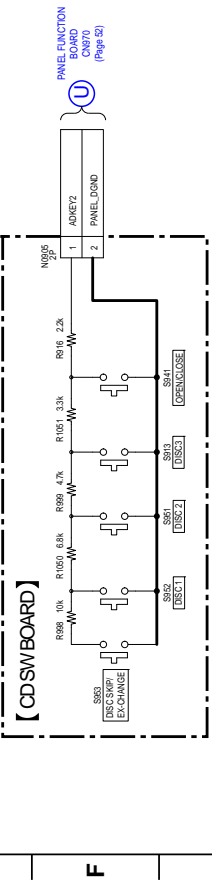
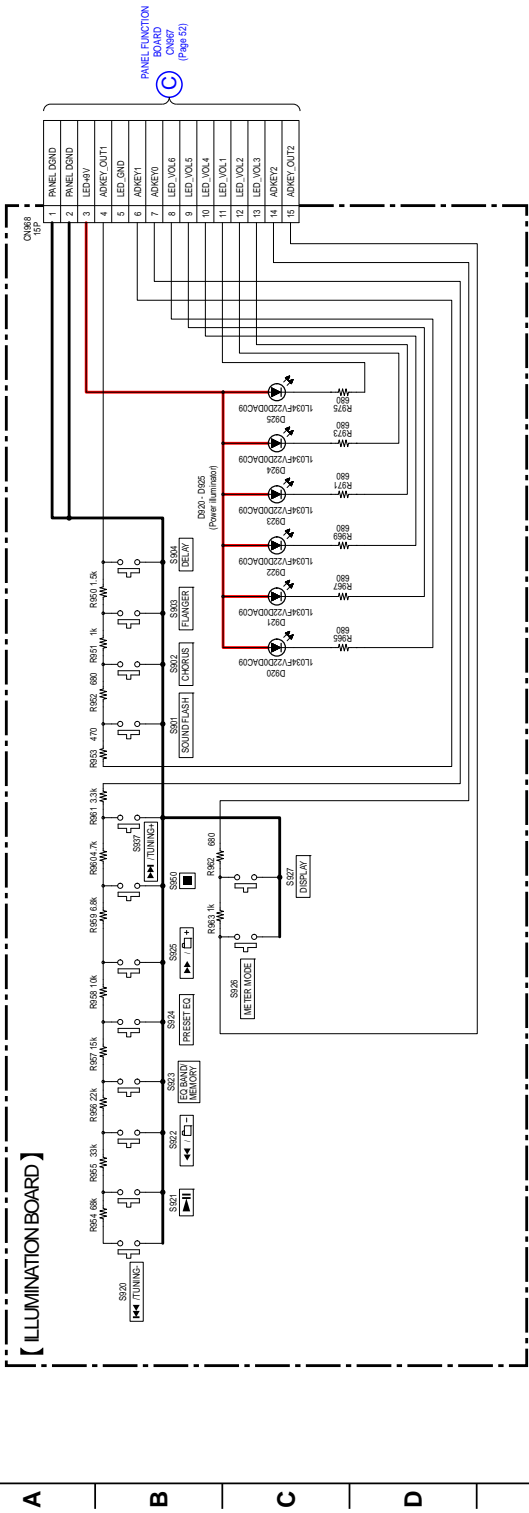
Ref. No.	Location
D1200	F-12
D1201	F-12
D1202	F-12
D1210	F-12
D1291	E-4
D1292	C-4
D1294	D-3
D1295	D-3
Q1211	F-12
Q1291	E-4

6-26. SCHEMATIC DIAGRAM — TRANS BOARD —



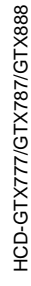
6-28. SCHEMATIC DIAGRAM — ILLUMINATION BOARD —

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15





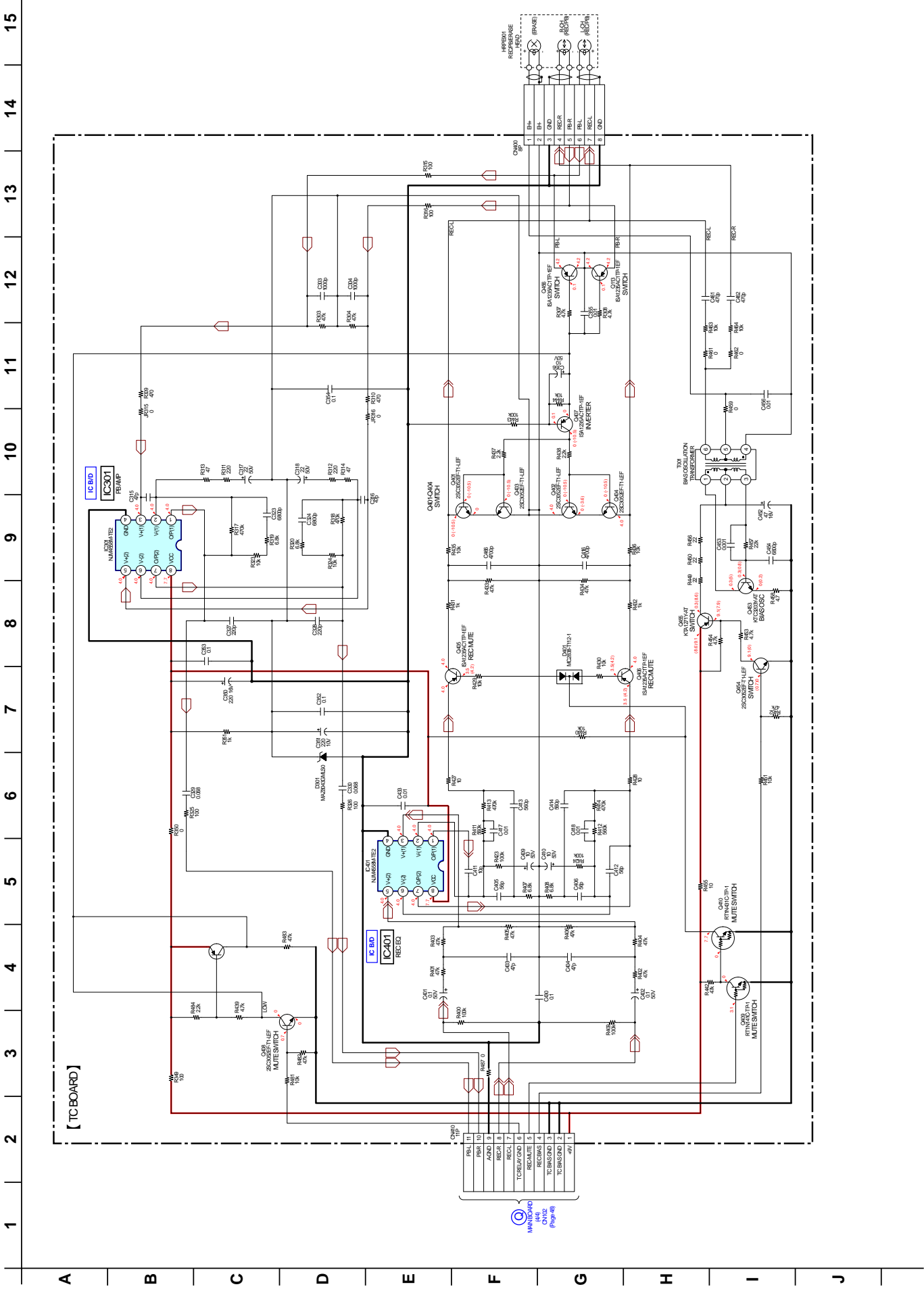
Ref. No.	Location
D1101	C-5
D1102	C-12
D1104	D-2
IC1100	D-11





Ref. No.	Location
D301	E-5
D401	C-9
IC301	D-8
IC401	C-5
Q113	E-11
Q401	B-11
Q402	C-11
Q403	C-11
Q404	C-12
Q405	B-9
Q406	C-9
Q407	C-12
Q408	D-2
Q409	B-2
Q410	B-2
Q411	E-3
Q453	B-7
Q454	B-7
Q455	C-7
Q456	D-11

6-32. SCHEMATIC DIAGRAM — TC BOARD — • Refer to page 67 IC Block Diagrams.

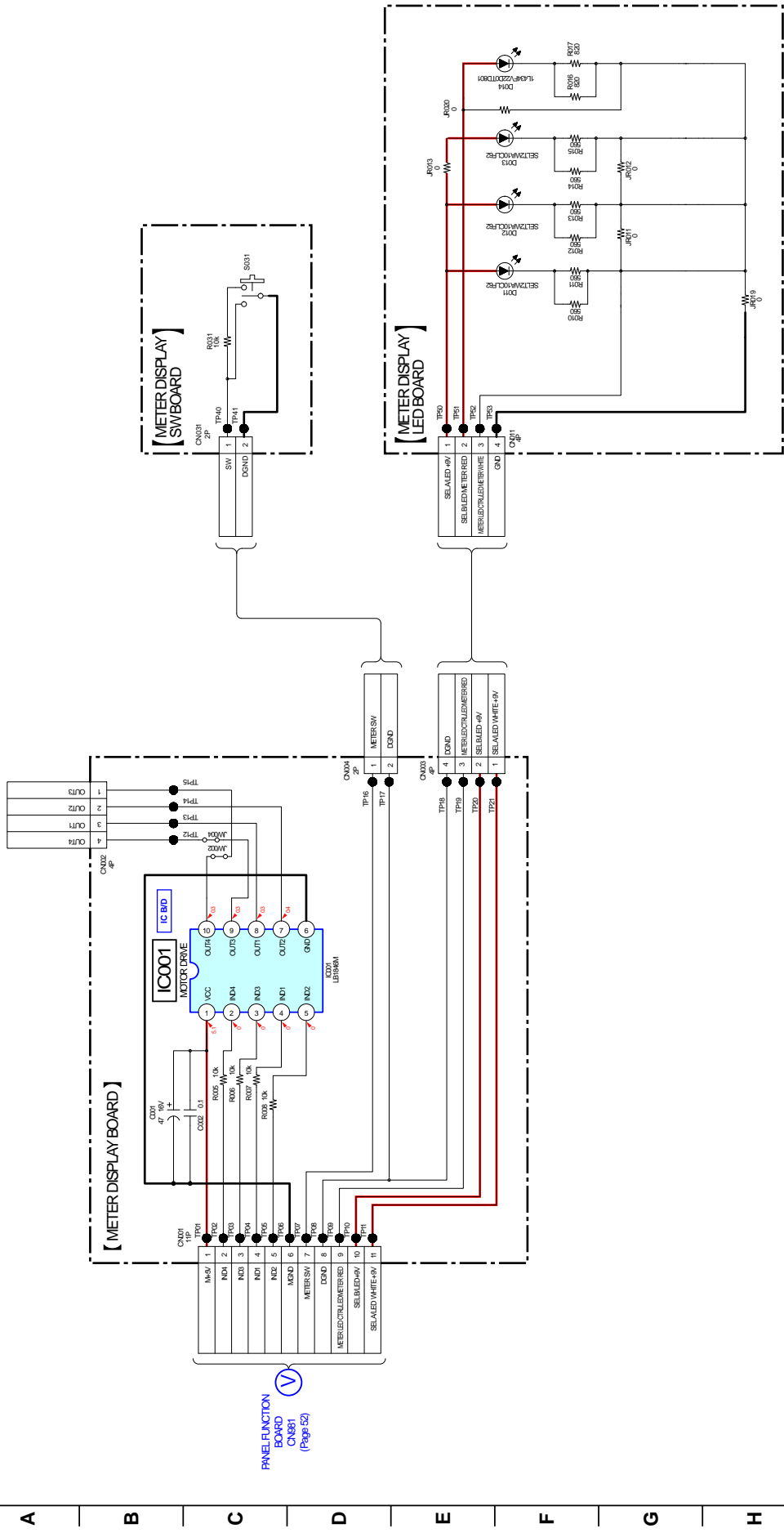




• Semiconductor Location

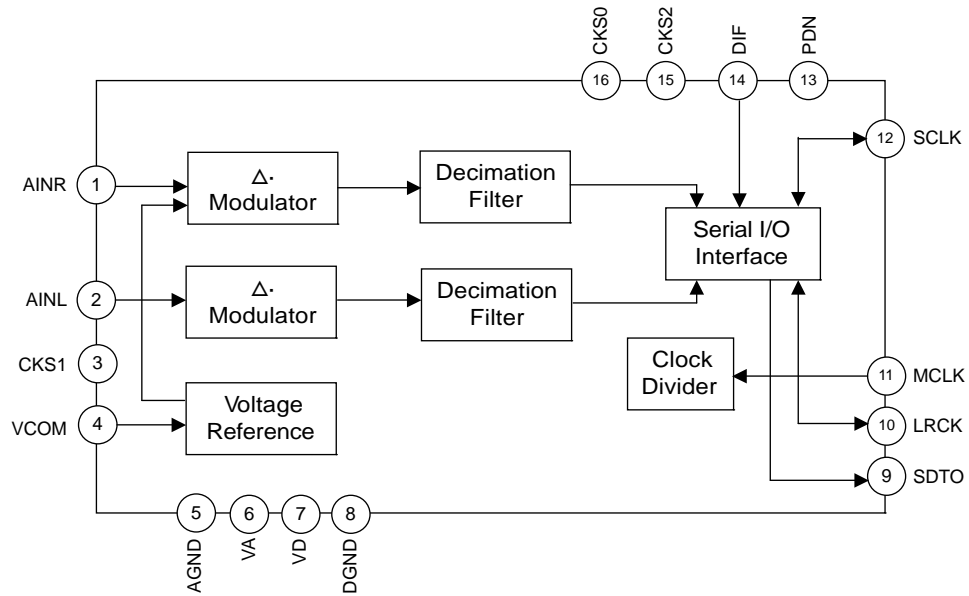
Ref. No.	Location
D011	E-10
D012	B-11
D013	E-13
D014	E-11
IC001	D-3

6-34. SCHEMATIC DIAGRAM — METER DISPLAY BOARD — • Refer to page 67 IC Block Diagrams.

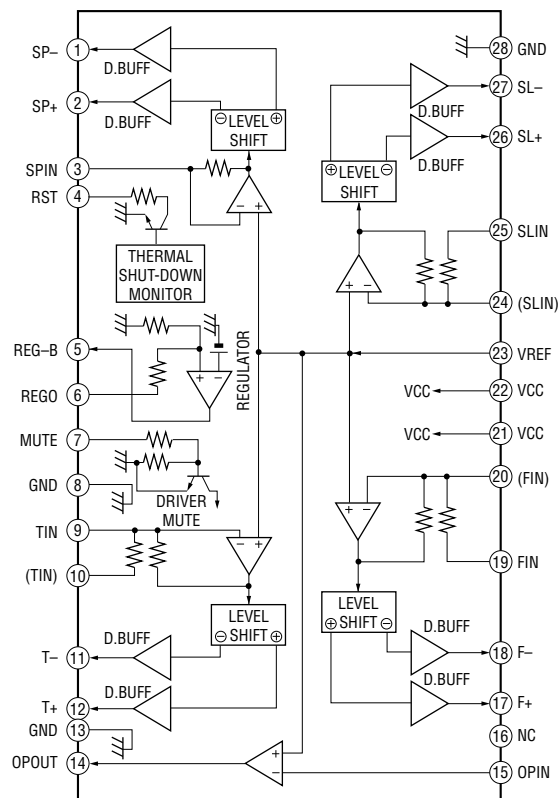


- IC Block Diagrams

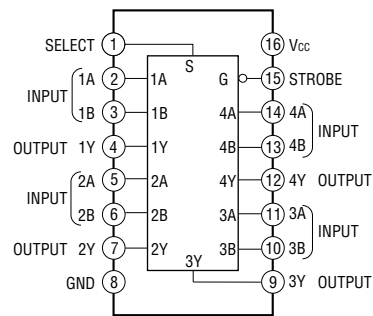
IC501 AK5358AET-E2 (BD93 Board)



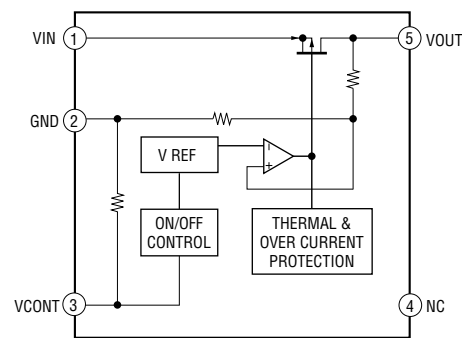
IC401 BA5826SFP-E2 (BD93 Board)



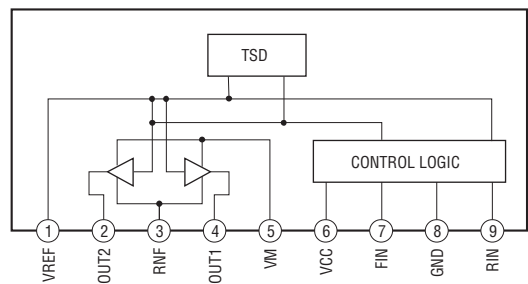
IC502 TC74VHC157FT(EKJ) (BD93 Board)
IC200 TC74VHC157FT(EKJ) (MAIN Board)



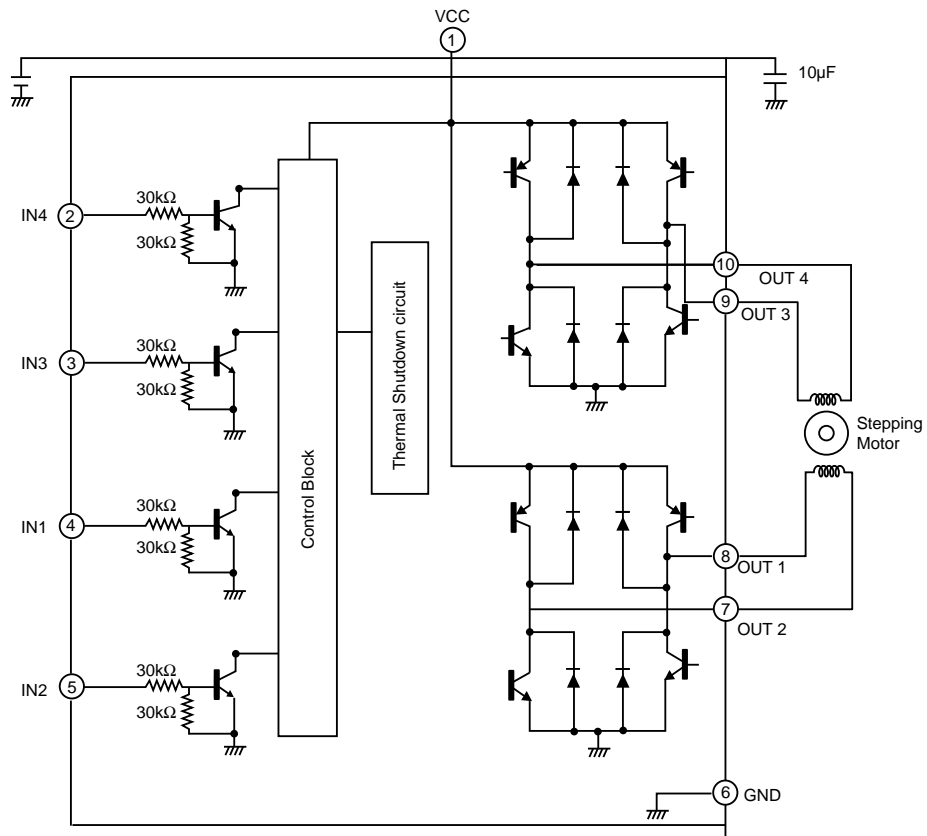
IC201 TK63115SCL-G@GT (BD93 Board)



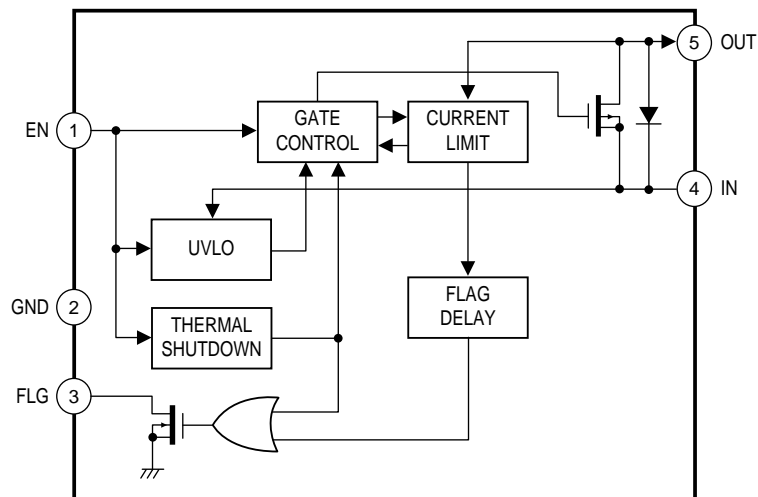
IC701 BA6956AN (DRIVER Board)
IC712 BA6956AN (DRIVER Board)



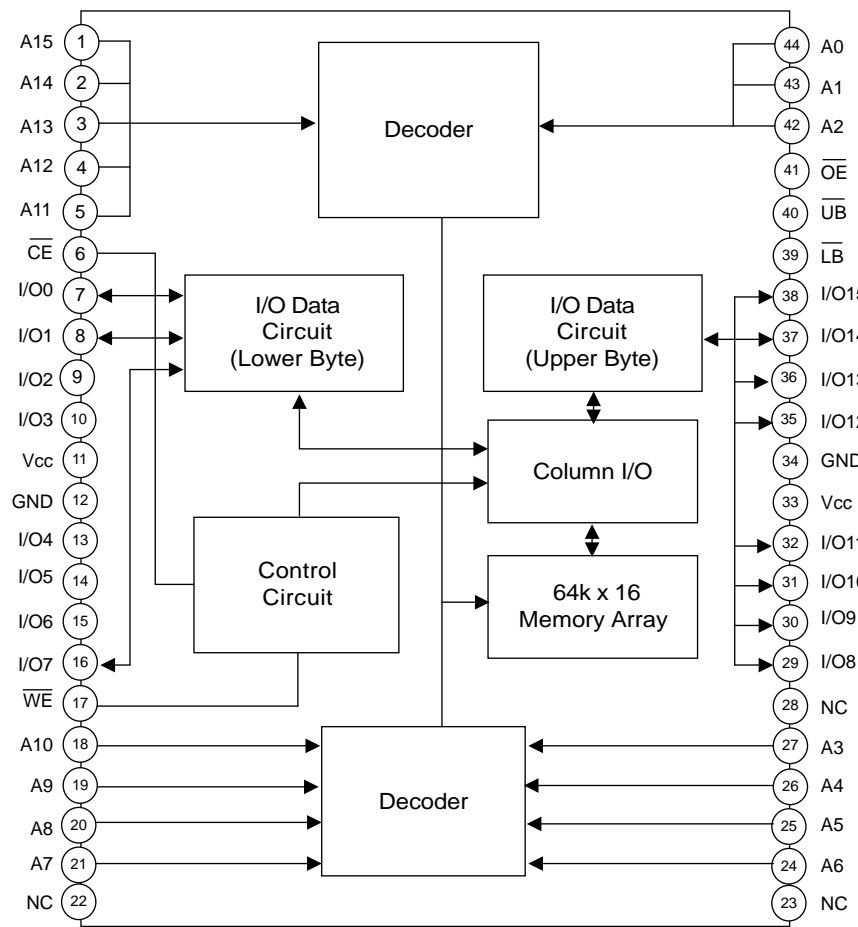
IC001 LB1846M (METER DISPLAY Board)



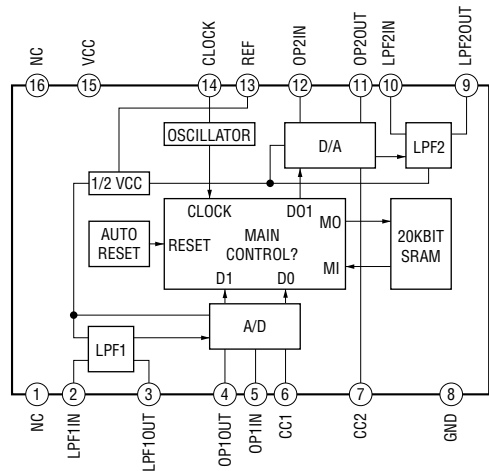
IC915 R5523N001B-TR-F (USB Board)



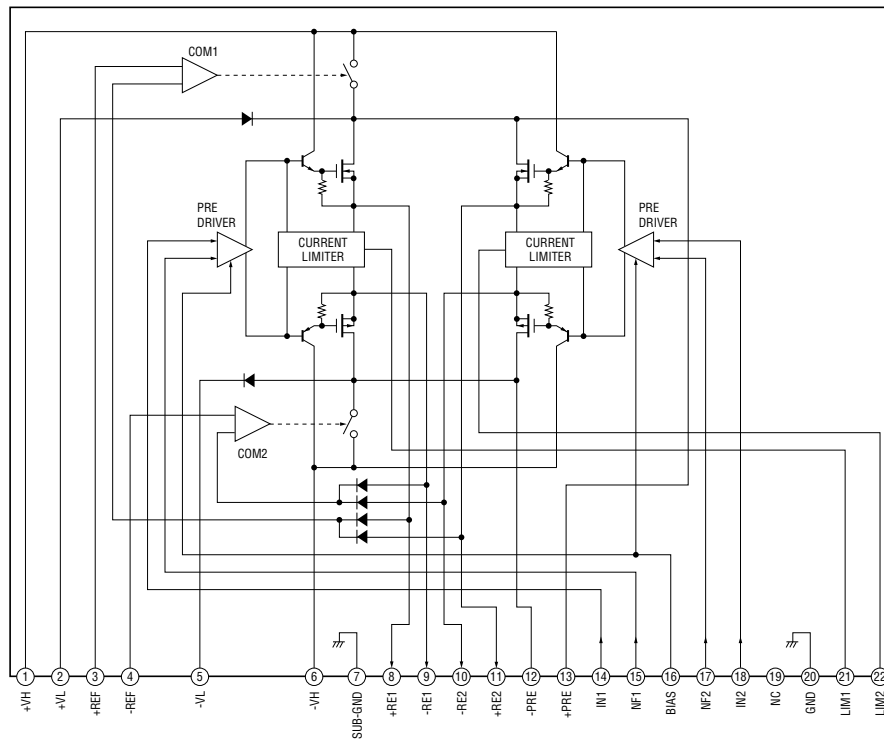
IC921 IS61LV6416-10TLT (USB Board)



IC501 M65850FP-E1 (MAIN Board)

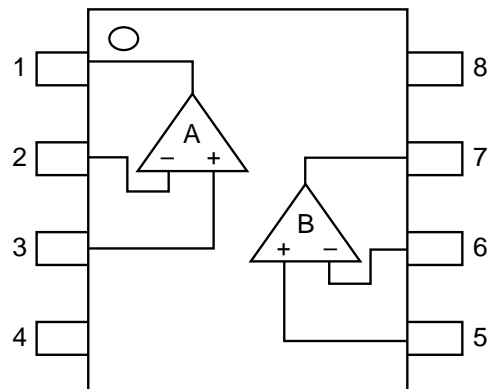


IC601 STK412-150C (POWER Board)
IC602 STK412-150C (POWER Board)

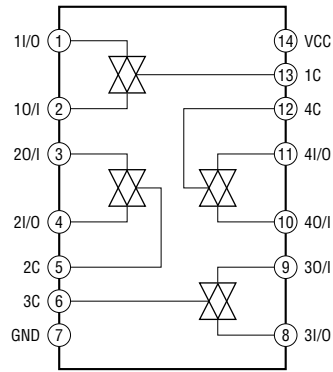


IC1100 NJM4558V-TE2 (MIC Board)
IC51 NJM4558M-TE2 (MAIN Board)
IC100 NJM4558M-TE2 (MAIN Board)
IC502 NJM4558M-TE2 (MAIN Board)
IC2030 NJM4558M-TE2 (MAIN Board)
IC2031 NJM4558M-TE2 (MAIN Board)
IC301 NJM4558M-TE2 (TC Board)
IC401 NJM4558M-TE2 (TC Board)

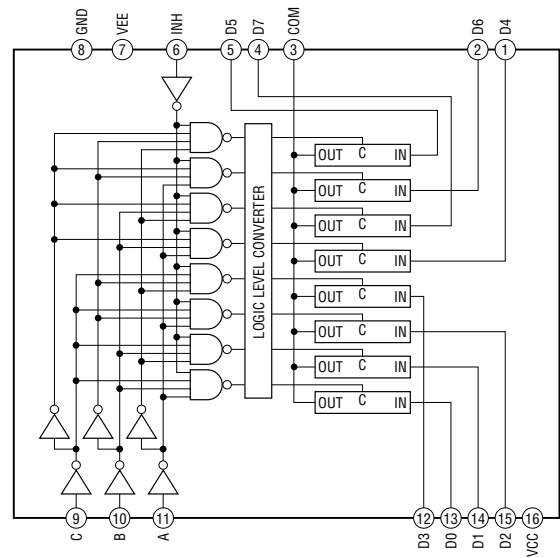
(Top View)



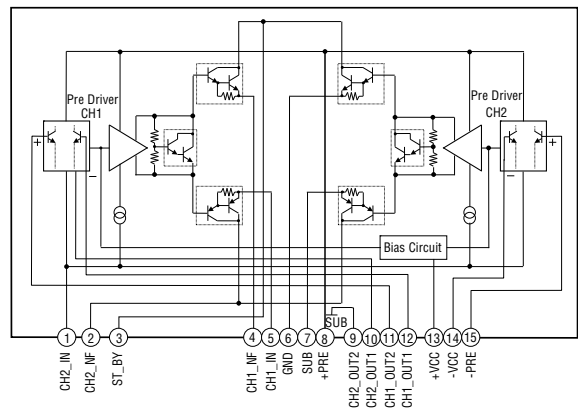
IC201 TC74HC4066AFT(EL) (MAIN Board)
IC202 TC74HC4066AFT(EL) (MAIN Board)



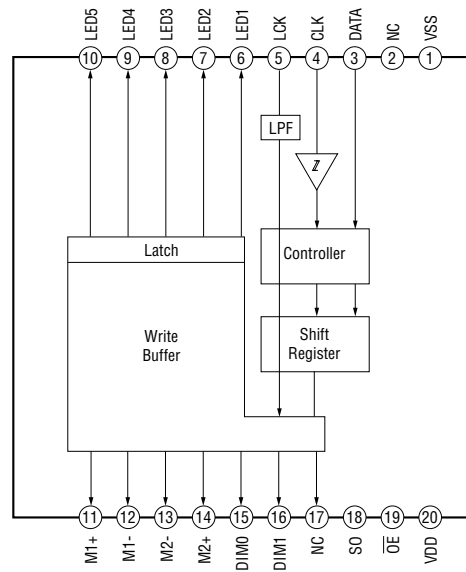
IC500 TC74LVX4051FT (MAIN Board)



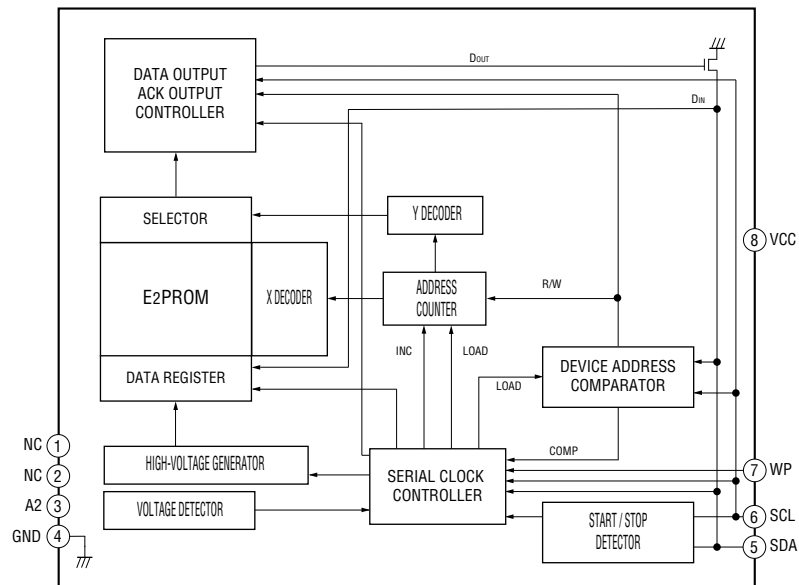
IC800 STK433-130E (SUB WOOFER Board)



IC900 BU2099FV (PANEL FUNCTION Board)
 IC902 BU2099FV (PANEL FUNCTION Board)



IC675 S-24CS16A01-J8T1G (MAIN Board)



HCD-GTX777/GTX787/GTX888

• IC Pin Function Descriptions

IC401 R5F3640MDFAR (System Controller) Main board

Pin No.	Pin Name	I/O	Pin Description
1	REQ	I	Zipang decoder request pin to master control.
2	RST	O	Reset signal output to the Zipang IC (digital signal processor) “L”:reset
3	M-MUTE	O	Control port for Zipang motor driver mute.
4	SIRCS	I	Remote control signal input
5	CCE	O	Chip enable contor port to Zipang IC.
6	CD CLK (BUCK)	O	Serial data transfer clock signal to Zipang IC
7	USB SEL-SW	O	USB and ZIPANG (CD) control switch CD(H) / USB(L)
8	BYTE	—	Ground terminal
9	CNVss	—	Ground terminal
10	XC-IN	I	Sub system clock input terminal (32.768kHz)
11	XC-OUT	O	Sub system clock output terminal (32.768kHz)
12	RESET	I	System reset signal input from the reset signal IC “L”: reset After the power supply rises, “L” is input for several hundreds msec and then change to “H”.
13	X-OUT	O	Main system clock output terminal (5MHz)
14	VSS	—	Ground terminal
15	X-IN	—	Main system clock input terminal (5MHz)
16	VCC	—	Power supply terminal (+3.3V)
17	NMI	I	Non-maskable interrupt input terminal
18	CAPM+	O	Capstan motor drive signal output
19	SBSY	I	Subcode sync detection signal input from the digital signal processor (Zipang IC).
20	AC-CUT	I	AC off detection signal input from the reset signal IC “L”: AC Cut detected
21	TMR	O	CDM turning motor control signal output
22	E-1	I	Disc tray status detection signal input from CDM
23	E-3	I	Disc tray status detection signal input from CDM
24	OPEN-SW	I	Eject detection signal input from CDM
25	TBL-SENSE	I	Disc tray position detection signal input from CDM
26	CIG BK	O	Backlight control signal for CIG (Chip In Glass) of fluorescent indicator tube.
27	E-2	I	Disc tray status detection signal input from CDM
28	CIG LATCH	O	Latch control signal for CIG (Chip In Glass) of fluorescent indicator tube.
29	IIC-CLK	I/O	Clock signal for IIC communcation for Master Control controller.
30	IIC-DATA	I/O	Data signal for IIC communcation for Master Control controller.
31	CIG DATA	O	Data signal for CIG (Chip In Glass) of FL Display.
32	TMF	O	CDM turning motor control signal output
33	CIG CLK	O	Clock signal for CIG (Chip In Glass) of FL Display.
34	USB SERIAL CTS0	I	Serial send control input pin from USB IC
35	USB SERIAL TxD0	O	UART serial transmission data line to USB IC.
36	USB SERIAL RxD0	I	UART serial reception data line from USB IC.
37	USB-RST	O	Reset signal output to USB control IC “L”: reset
38	USB SERIAL RTS0	O	Serial receive control output pin from USB IC.
39	B-TRIG	O	Deck side trigger plunger drive signal output “H”:plunger on
40	EFFECTOR-CTRL 1	O	Effector circuitry mode control 1, “H”: Delay/Effector Off , “H”: Flanger/Chorus.
41	EFFECTOR-CTRL 3	O	Effector circuitry mode control 3,”H”: Chorus/ Effector Off, “L”: Flanger/ Delay.
42	LED DRIVER-LATCH	O	Latch control signal for LED Driver IC.
43	LED DRIVER-DATA	O	Data signal for LED Driver IC.
44	LED DRIVER-CLOCK	O	Clock signal for LED Driver IC.
45	PROTECT2	O	FAN current detect and Regulator Short detect, ON(H)/ OFF(L)
46	STBY LED	O	LED drive signal output of POWER indicator.
47	B SHUT	I	Shut off detection signal input from deck A side reel pulse detector (A/D input)
48	STBY RELAY	O	Main power on/off control signal output “H”:power on
49	STK-MUTE	O	Power amplifier and sub woofer amplifier on/off control signal output “H”: amplifier on
50	FAN CONTROL	O	Fan on/off control port.
51	LINE-MUTE	O	Line muting on/off control signal “L”:muting on
52	FRONT-RELAY	O	Relay drive signal output for the front speakers “H”:relay on
53	LINK RELAY	O	Surround speaker mode control signal “H”:LINK “L”:MATRIX SURROUND1/2

Pin No.	Pin Name	I/O	Pin Description
54	SW-SPK-RELAY	O	Relay drive signal output for the passive sub woofer “H”:relay on
55	PROTECTOR	I	Speaker protect detection signal input from speaker protect circuit “L”:protector on
56	FAN HI SPEED	O	Fan high speed control signal for Themal VACS, “L”: Fan high speed on.
57	R2A15216FP - CLK	O	Serial data transfer clock signal output to audio signal IC, R2A15216FP
58	R2A15216FP - DATA	O	Serial data output to audio signal IC, R2A15216FP
59	TUNED	I	“TUNED” input signal from Tuner pack.
60	TC-RELAY	O	Recording/playback selection signal output “H”:recording “L”:playback
61	REC MUTE	O	Recording muting on/off control signal output “L”:muting on
62	VCC	—	Power supply terminal (+3.3V)
63	REC BIAS	O	Recording bias on/off control signal output “H”:bias on
64	VSS	—	Ground terminal
65	METER POSITION SW	I	Meter position switch (Initial & End Position) for calibration purpose.
66	MIC DET / HP DET	I	Headphone in and Mic in detect pin (A/D input).
67	ST-CE	O	PLL chip enable signal output to the tuner unit
68	MC-DOUT (ST-D IN)	I	PLL serial data input to the tuner unit
69	ST-CLK	O	PLL serial data transfer clock signal output to the tuner unit
70	MC-DIN (ST-D OUT)	O	PLL serial data output from the tuner unit
71	NO-USE	I	Unused port (Pull to GND)
72	METER LEVEL	I	Audio signal level for Meter level detect (A/D input).
73	POWER & DISPLAY-KEY	I	POWER key and DISPLAY key press detection signal (Interrupt input)
74	RDS-DATA	I	RDS data signal from Tuner pack.
75	RDS-CLK	I	RDS clock signal from Tuner pack.
76	EFFECTOR-S0	O	Effector circuitry delay time selection bit 0 output signal
77	EFFECTOR-S1	O	Effector circuitry delay time selection bit 1 output signal
78	EFFECTOR-S2	O	Effector circuitry delay time selection bit 2 output signal
79	CD BUS3	I/O	Data bus line for ZIPANG (CD) communication with master control.
80	CD BUS2	I/O	Data bus line for ZIPANG (CD) communication with master control.
81	CD BUS1	I/O	Data bus line for ZIPANG (CD) communication with master control.
82	CD BUS0	I/O	Data bus line for ZIPANG (CD) communication with master control.
83	B-HALF	I	Deck B cassette detection, forward side recording tab detection and reverse side recording tab detection signal input terminal (A/D input)
84	ADKEY 0	I	Key input terminal for AD key line 0.
85	ADKEY 1	I	Key input terminal for AD key line 1.
86	ADKEY 2	I	Key input terminal for AD key line 2.
87	MASTER VOL	I	Jog dial pulse input from the VOLUME encoder
88	OP DIAL	I	Jog dial pulse input from OPERATION DIAL encoder
89	VACS	I	Spectrum analyzer drive signal input from Audio IC signal (A/D input)
90	OVER VOLTAGE DET	I	Over-voltage protection detection input terminal “L”: over-voltage detected
91	MODEL-IN	I	Model setting terminal (A/D input)
92	DEST-IN	I	Destination setting terminal (A/D input)
93	THERMA VACS	I	Temperature detection signal input from thermistor (A/D input)
94	SW LEVEL IN	I	Subwoofer volume level detection from subwoofer volume jog (A/D input)
95	EEP-SCL	I/O	External EEPROM memory backup (Serial Clock line)
96	Avss	I	Ground terminal (for A/D conversion)
97	EEP_SDA	I/O	External EEPROM memory backup (Serial Data line)
98	VREF	I	A/D Converter reference voltage input terminal (+3.3V)
99	AVCC	—	Power supply terminal (+3.3V) (for A/D conversion)
100	SW ON LED	O	LED drive signal output of SUB WOOFER ON indicator on sub woofer “H”:LED ON

HCD-GTX777/GTX787/GTX888

• IC Pin Function Descriptions

IC101 TC94A70FG-101 (RF AMP, FOCUS/TRACKING ERROR AMP, DIGITAL SIGNAL PROCESSOR, DIGITAL SERVO PROCESSOR, DIGITAL FILTER, D/A CONVERTER) (BD93 BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	AVSS3	—	Ground pin
2	RFZi	I	RF ripple zero crossing signal input
3	RFRP	O	RF ripple signal output
4	SBAD/RFDC	O	Sub beam addition signal or RF peak detection signal output Not used in this set. (Open)
5	FEi	O	Focus error signal output Not used in this set. (Open)
6	TEi	O	Tracking error signal output
7	TEZi	I	Tracking error zero crossing signal input
8	AVDD3	—	Power supply pin (+3.3 V)
9	FOo	O	Focus coil drive signal output
10	TRo	O	Tracking coil drive signal output
11	VREF	I	Reference voltage (+1.65 V) input
12	FMO	O	Sled motor drive signal output
13	DMO	O	Spindle motor drive signal output
14	VSSP3	—	Ground pin
15	VCOi	I	VCO control voltage input
16	VDDP3	—	Power supply pin (+3.3 V)
17	VDD1	—	Power supply pin (+1.5 V)
18	VSS1	—	Ground pin
19	FGiN	I	FG signal input Not used. (Connected to ground.)
20	IO0 (/HSO)	I	Disc inner position detection signal input Fixed at “L” in this set.
21	IO1 (/UHSO)	O	Not used in this set. (Open)
22	XVSS3	—	Ground pin
23	XI	I	System clock input (16.9344 MHz)
24	XO	O	System clock output (16.9344 MHz)
25	XVDD3	—	Power supply pin (+3.3 V)
26	DVSS3	—	Ground pin
27	RO	O	Analog audio (R-ch) signal output
28	DVDD3	—	Power supply pin (+3.3 V)
29	DVR	O	Reference voltage (+1.65 V) output
30	LO	O	Analog audio (L-ch) signal output
31	DVSS3	—	Ground pin
32	VDDT3	—	Power supply pin (+3.3 V)
33	VSS1	—	Ground pin
34	VDD1	—	Power supply pin (+1.5 V)
35	VDDM1	—	Power supply pin (+1.5 V)
36	SRAMSTB	I	S-RAM standby mode control signal input Fixed at “L” in this set.
37	$\overline{\text{RST}}$	I	Reset signal input from the system controller “L”: reset
38, 39	BUS0, BUS1	I/O	Serial data input/output from the system controller or USB controller
40	BUS2 (SO)	I/O	Serial data input/output from the system controller or USB controller
41	BUS3 (SI)	I/O	Serial data input/output from the system controller or USB controller
42	BUCK (CLK)	I	Serial data transfer clock signal input from the system controller or USB controller
43	$\overline{\text{CCE}}$	I	Chip enable signal input from the system controller or USB controller
44	TEST	I	Setting pin for test mode Normally fixed at “L”
45	IRQ	I	Interrupt request signal input
46	AoUT3 (PO4)	O	Request signal output
47	AoUT2 (PO5)	O	Audio data output
48	PIO0	O	Request signal output to the system controller or USB controller
49	PIO1	O	ST REQ signal output
50	PIO2	O	Power down signal output
51	PIO3	I	Gate signal input from the USB controller
52	VSS1	—	Ground pin
53	VDDT3	—	Power supply pin (+3.3 V)

Pin No.	Pin Name	I/O	Pin Description
54	SBSY	O	Subcode block sync signal output to the system controller
55	SBOK/FOK	O	Not used in this set. (Open)
56	IPF	O	Not used in this set. (Open)
57	SFSY/LOCK	O	Not used in this set. (Open)
58	ZDET	O	Zero detection signal output Not used in this set. (Open)
59	GPIN	I	Fixed at “L” in this set.
60	MS	I	Microcomputer interface mode selection signal input Fixed at “H” in this set.
61	DOUT (PO6)	O	Digital audio data output Not used in this set. (Open)
62	AOUT1 (PO7)	O	Audio data output Not used in this set. (Open)
63	BCK (PO8)	O	Bit clock signal output to the USB controller
64	LRCK (PO9)	O	L/R sampling clock signal output
65	AIN (PI4)	I	Digital audio data input from the USB controller
66	BCKi (PI5)	I	Bit clock signal input from the USB controller
67	LRCKi (PI6)	I	L/R sampling clock signal input from the USB controller
68	VDD1	—	Power supply pin (+1.5 V)
69	VSS	—	Ground pin
70	AWRC	—	Not used in this set. (Open)
71	PVDD3	—	Power supply pin (+3.3 V)
72	PDO	O	Phase error margin signal between EFM signal and PLCK signal output
73	TMAXS	O	TMAX detection signal output Not used in this set. (Open)
74	TMAX	O	TMAX detection signal output
75	LPFN	I	Inverted signal input from the operation amplifier for PLL loop filter
76	LPFo	O	Signal output from the operation amplifier for PLL loop filter
77	PVREF	I	Reference voltage (+1.65 V) input
78	VCOF	O	VCO filter output
79	PVSS3	—	Ground pin
80	SLCo	O	EFM slice level output
81	RFi	I	RF signal input
82	RFRPi	I	RF ripple signal input
83	RFEQo	O	EFM slice level output
84	VRo	O	Reference voltage (+1.65 V) output
85	RESiN	O	External resistor connection pin
86	VMDiR	O	Reference voltage (+1.65 V) output for automatic power control circuit
87	TESTR	O	Low-pass filter terminal for RFEQO offset correction
88	AGCi	I	RF signal amplitude adjustment amplification input
89	RFo	O	RF signal generation amplification output
90	RVDD3	—	Power supply pin (+3.3 V)
91	LD _o	O	Laser diode on/off control signal output to the automatic power control circuit “H”: laser diode on
92	MDi	I	Light amount monitor input from the laser diode of optical pick-up block
93	RVSS3	—	Ground pin
94	FNi2 (C)	I	Main beam (C) input from the optical pick-up block
95	FNi1 (A)	I	Main beam (A) input from the optical pick-up block
96	FPi2 (D)	I	Main beam (D) input from the optical pick-up block
97	FPi1 (B)	I	Main beam (B) input from the optical pick-up block
98	TPi (F)	I	Sub beam (F) input from the optical pick-up block
99	TNPC	O	External capacitor connection pin
100	TNi (E)	I	Sub beam (E) input from the optical pick-up block

HCD-GTX777/GTX787/GTX888

• IC Pin Function Descriptions

IC901 TMP92CD28AFG-6VD8 (USB CONTROLLER) (USB BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	RESET	I	Reset signal input from the system controller “L”: reset
2	PC0/INT0	I	Ready to send signal input from the system controller
3	PC1/INT1	O	Not used in this set. Connected to ground.
4	PC2/INT2/TB1IN0	O	Not used in this set. Connected to ground.
5	PC3/INT3	I	Function selection signal input Fixed at “L” in this set.
6	DVCC3B	—	Power supply pin (+3.3 V)
7	PC6/XT1	O	Not used in this set. (Open)
8	PC7/XT2	O	Not used in this set. (Open)
9	PWE	O	Not used in this set. (Open)
10	DVSS1B	—	Ground pin
11	DVCC1B	—	Power supply pin (+3.3 V)
12	RVOUT1	O	Reference voltage (+3.3 V) output pin
13, 14	RVIN	I	Reference voltage (+3.3 V) input pin
15	RVOUT2	O	Reference voltage (+3.3 V) output pin
16	DVCC1A	—	Power supply pin (+3.3 V)
17	DVSS1A	—	Ground pin
18 to 25	P00/D0 to P07/D7	I/O	Two-way data bus with the S-RAM
26	DVSS	—	Ground pin
27	DVCC3A	—	Power supply pin (+3.3 V)
28 to 35	P10/D8 to P17/D15	I/O	Two-way data bus with the S-RAM
36	P40/A0	O	Address signal output pin Not used in this set. (Open)
37 to 43	P41/A1 to P47/A7	O	Address signal output to the S-RAM
44	DVSS	—	Ground pin
45	DVCC3A	—	Power supply pin (+3.3 V)
46 to 54	P50/A8 to P60/A16	O	Address signal output to the S-RAM
55 to 58	P61/A17 to P64/A20	O	Serial data output to the CD-MP3 processor
59	P65/A21	O	Serial data transfer clock signal output to the CD-MP3 processor
60	P66/A22	O	Chip enable signal output to the CD-MP3 processor
61	P67/A23	O	Not used in this set. (Open)
62	DVSS	—	Ground pin
63	DVCC3A	—	Power supply pin (+3.3 V)
64	P70/RD	O	Output enable signal output to the S-RAM
65	P71/SRWR	O	Write enable signal output to the S-RAM
66	P72/SRLLB	O	Lower-byte control signal output to the S-RAM
67	P73/SRLUB	O	Upper-byte control signal output to the S-RAM
68	P74/TA0IN	O	Not used in this set. (Open)
69	P80/CS0/TA1OUT (BOOT)	I	Boot mode selection signal input “L”: boot mode
70	P82/CS2	I	Chip select signal output to the S-RAM
71	P83/CS3/WAIT/TA5OUT	O	L/R sampling clock signal output to the CD-MP3 processor
72	AM1	I	Function mode selection signal input Fixed at “H” in this set.
73	X2	O	System clock output (9 MHz)
74	DVSS	—	Ground pin
75	X1	I	System clock input (9 MHz)
76	DVCC3A	—	Power supply pin (+3.3 V)
77	P75/USBOC	I	Over current detection signal input
78	P76/USBPON	O	USB VBUS power on/off control signal output “H”: power on
79	D+	I/O	Two-way data (positive) bus with the USB connector
80	D-	I/O	Two-way data (negative) bus with the USB connector
81	AM0	I	Function mode selection signal input Fixed at “H” in this set.
82	P77/X1USB	O	Not used in this set. (Open)
83	DVSS	—	Ground pin
84	PF0/TXD0	O	Clear to send signal output to the system controller
85	PF1/RXD0	O	Serial data signal output



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

SECTION 7
EXPLODED VIEWS

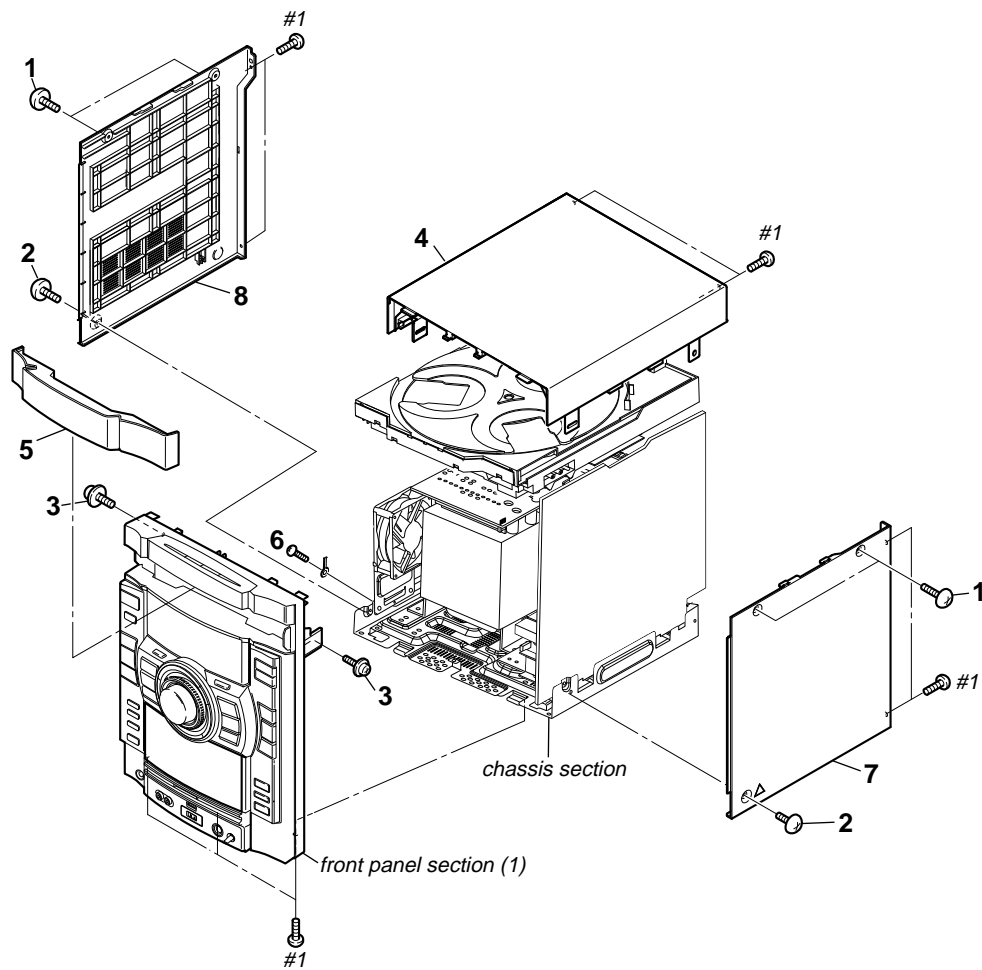
NOTE:

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

- Accessories are given in the last of this parts list.
- Abbreviation
E2 : 120V AC area in E model
E3 : Middle Eastern, African and Indian model
E51 : Chilean and Peruvian model
AR : Argentina model
AUS : Australian model
MX : Mexican model

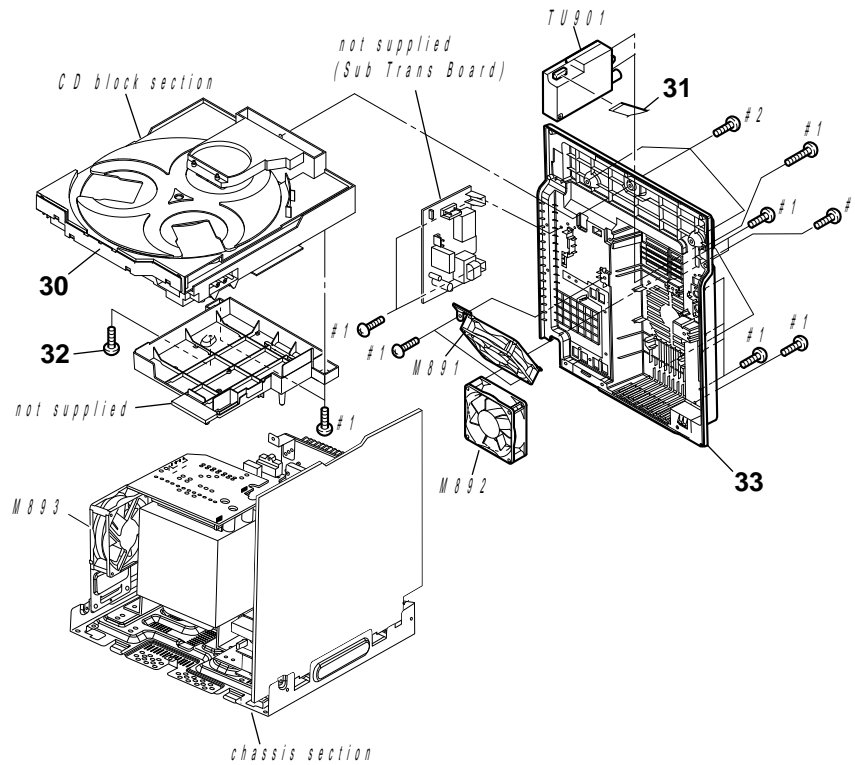
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

7-1. MAIN SECTION



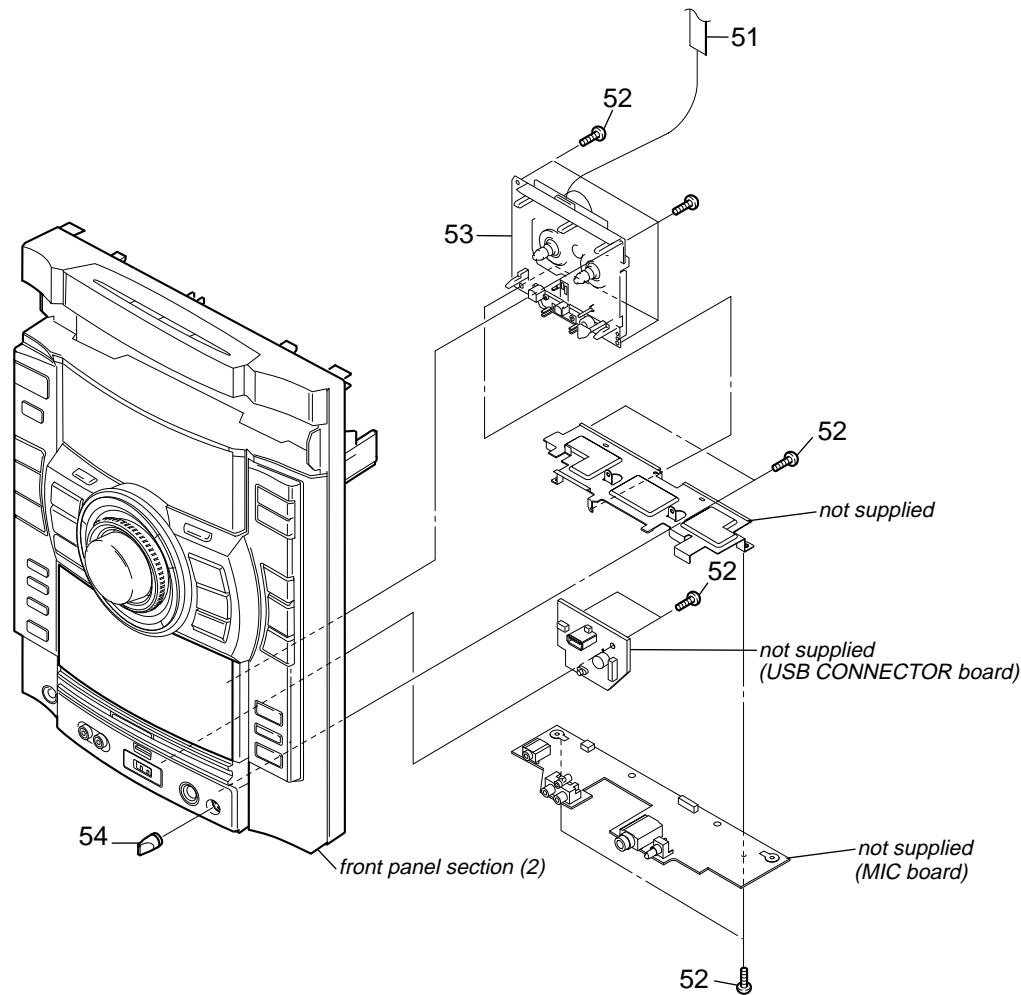
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-363-099-32	SCREW (CASE 3 TP2)		5	3-285-301-61	PANEL, LOADING (GTX888: E3, AUS)	
2	3-363-099-02	SCREW (CASE 3 TP2)		5	3-285-301-71	PANEL, LOADING (GTX777: E3)	
3	3-703-136-12	SCREW, TAPPING		6	3-077-331-21	+BV3 (3-CR)	
4	2-342-117-31	CASE (TOP)		7	3-285-328-1	PANEL, SIDE-R	
5	3-285-301-01	PANEL, LOADING (GTX888: E2, E51, AR,MX)		8	3-285-327-1	PANEL, SIDE-L	
5	3-285-301-21	PANEL, LOADING (GTX777: AEP, E2, E51, AR, MX)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
5	3-285-301-41	PANEL, LOADING (GTX787: E2)					

7-2. BACK PANEL SECTION



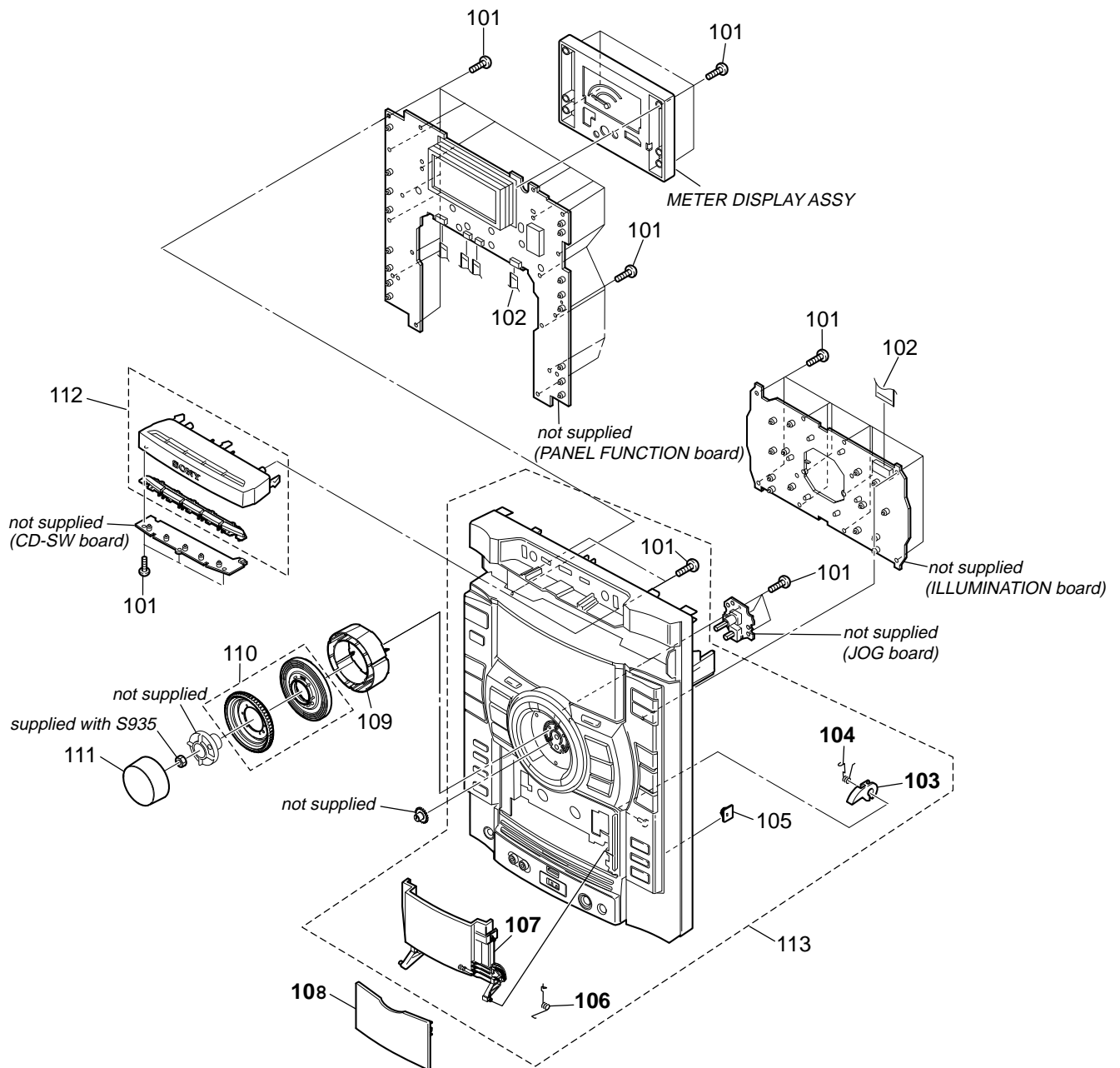
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
30	2-633-125-04	DUST SHEET (BOTTOM) (GTX888)		33	X-2319-160-1	PANEL, BACK ASSY (GTX888: MX)	
31	1-828-953-11	WIRE (FLAT TYPE) (9 CORE) (EXCEPT AEP)		33	X-2319-162-1	PANEL, BACK ASSY (GTX777: MX)	
31	1-828-962-11	WIRE (FLAT TYPE) (11 CORE) (AEP)		33	X-2319-743-1	PANEL, BACK ASSY (GTX777: AR)	
32	3-087-053-01	+BVTP2.6 (3CR)		TU901	1-693-759-11	TUNER (FM/AM) (AEP)	
33	X-2188-675-1	PANEL, BACK ASSY (GTX888: EXCEPT AUS, AR, MX)		TU901	1-693-764-21	TUNER (FM/AM) (EXCEPT AEP)	
33	X-2188-678-1	PANEL, BACK ASSY (GTX777: EXCEPT AEP, AR, MX)		M891	1-763-372-11	FAN, DC	
33	X-2188-679-1	PANEL, BACK ASSY (GTX787: E2)		M892	1-763-372-11	FAN, DC	
33	X-2188-687-1	PANEL, BACK ASSY (GTX777: AEP)		M893	1-763-372-11	FAN, DC (GTX888)	
33	X-2190-594-1	PANEL, BACK ASSY (GTX888: AUS, AR)		#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
				#2	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

7-3. FRONT PANEL SECTION (1)



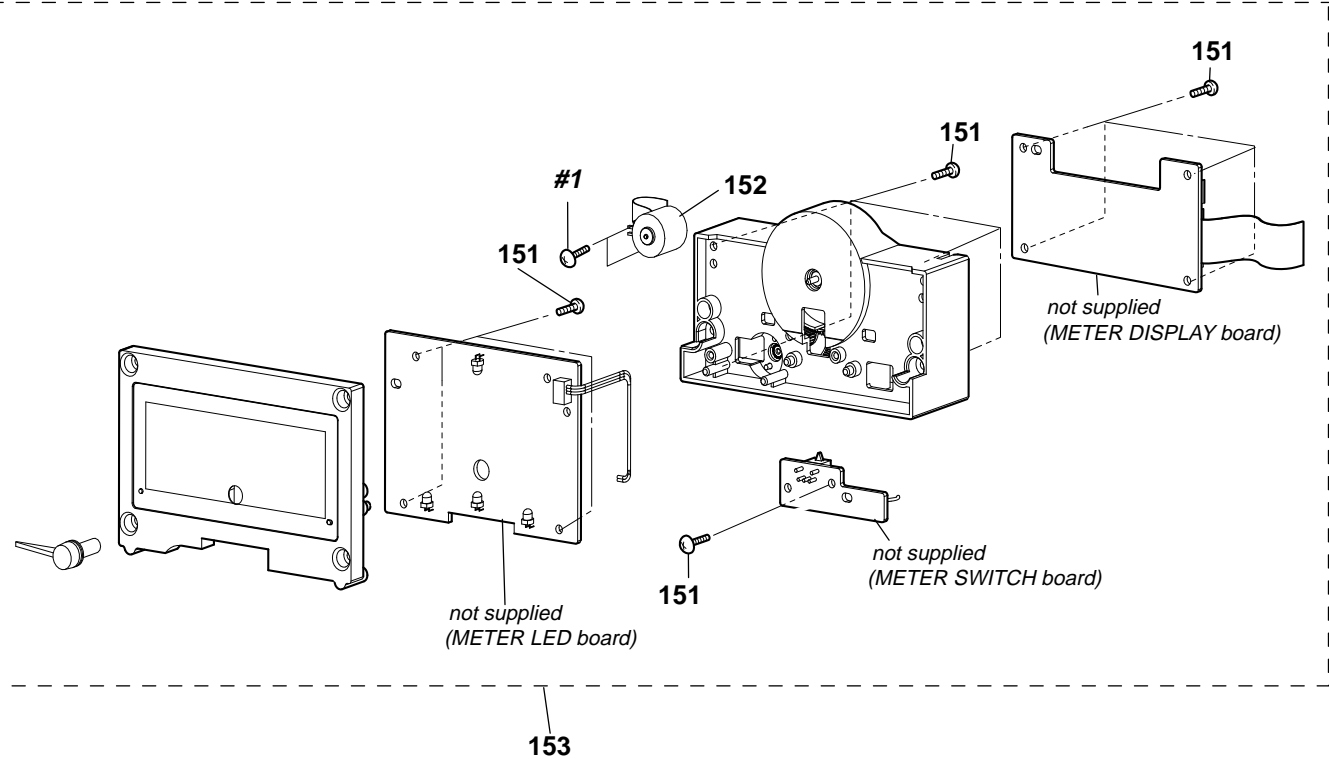
Ref. No.	Part No.	Description	Remark
51	1-921-201-91	WIRE (FLAT TYPE) (11 CORE)	
52	3-087-053-01	+BVTP2.6 (3CR)	
53	1-840-020-11	MECHA DECK	
54	2-895-507-01	KNOB (MIC)	

7-4. FRONT PANEL SECTION (2)



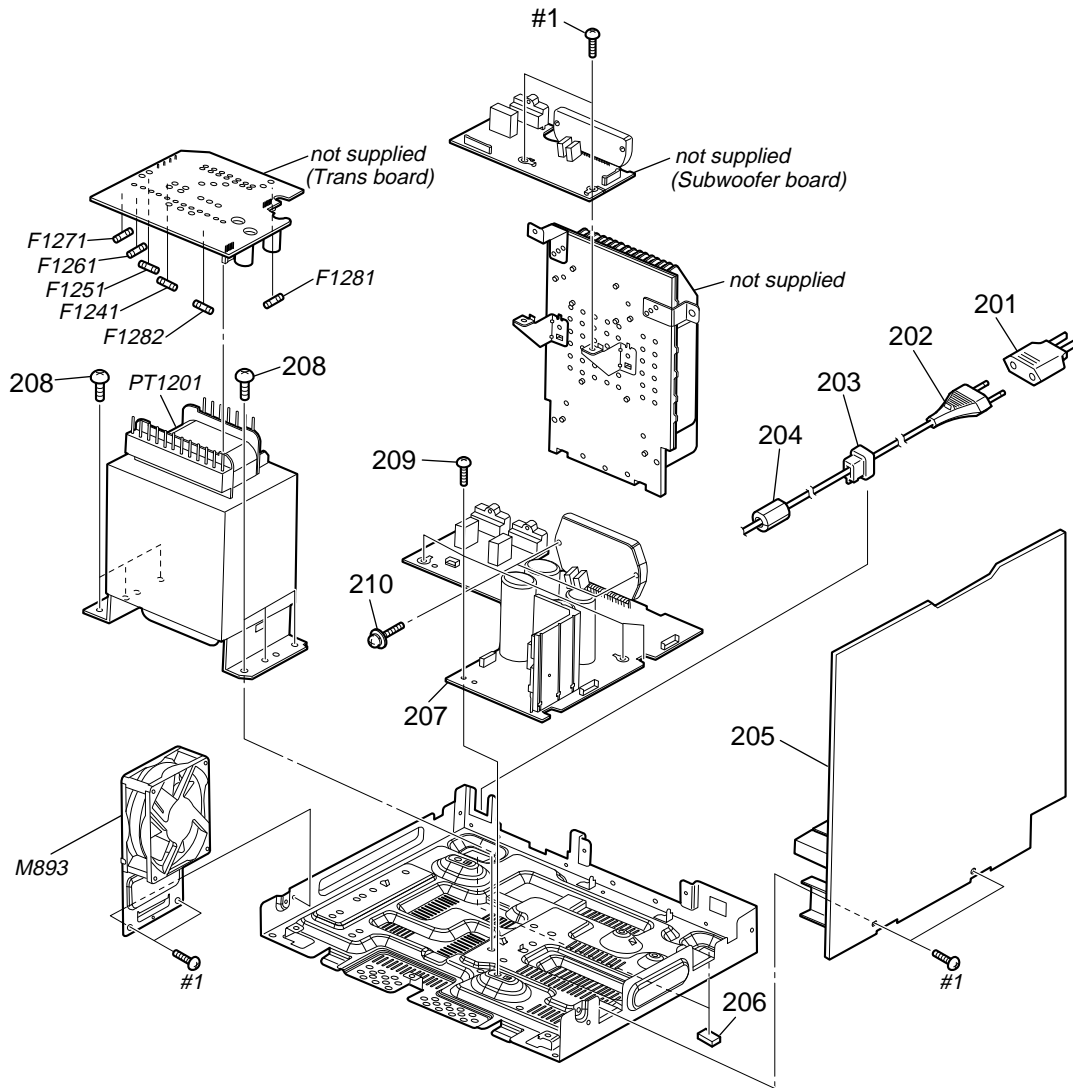
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-087-053-01	+BVTP2.6 (3CR)		111	2-895-490-01	KNOB (VOLUME)	
102	1-921-186-51	WIRE (FLAT TYPE) (15 CORE)		112	X-2188-672-1	ESCUTCHEON CD ASSY	
103	4-231-825-01	CAM (B), HEART		113	X-2188-671-1	PANEL, FRONT ASSY	
104	4-231-841-01	SPRING (HEART CAM-B)				(GTX888: E2, E51, AR, MX)	
105	4-224-104-11	DAMPER		113	X-2188-677-1	PANEL, FRONT ASSY	
						(GTX777: E2, E51, AR, MX/GTX787: E2)	
106	3-285-339-01	SPRING (TC)		113	X-2189-591-1	PANEL, FRONT ASSY (GTX777: AEP)	
107	3-285-322-01	HOLDER (TC)					
108	3-285-323-01	LID (TC)		113	X-2190-592-1	PANEL, FRONT ASSY (GTX888: E3, AUS)	
109	3-285-315-01	REFLECTOR (VOLUME)		113	X-2190-593-1	PANEL, FRONT ASSY (GTX777: E3)	
110	X-2188-073-1	KNOB JOG P ASSY					

7-5. METER DISPLAY ASSY



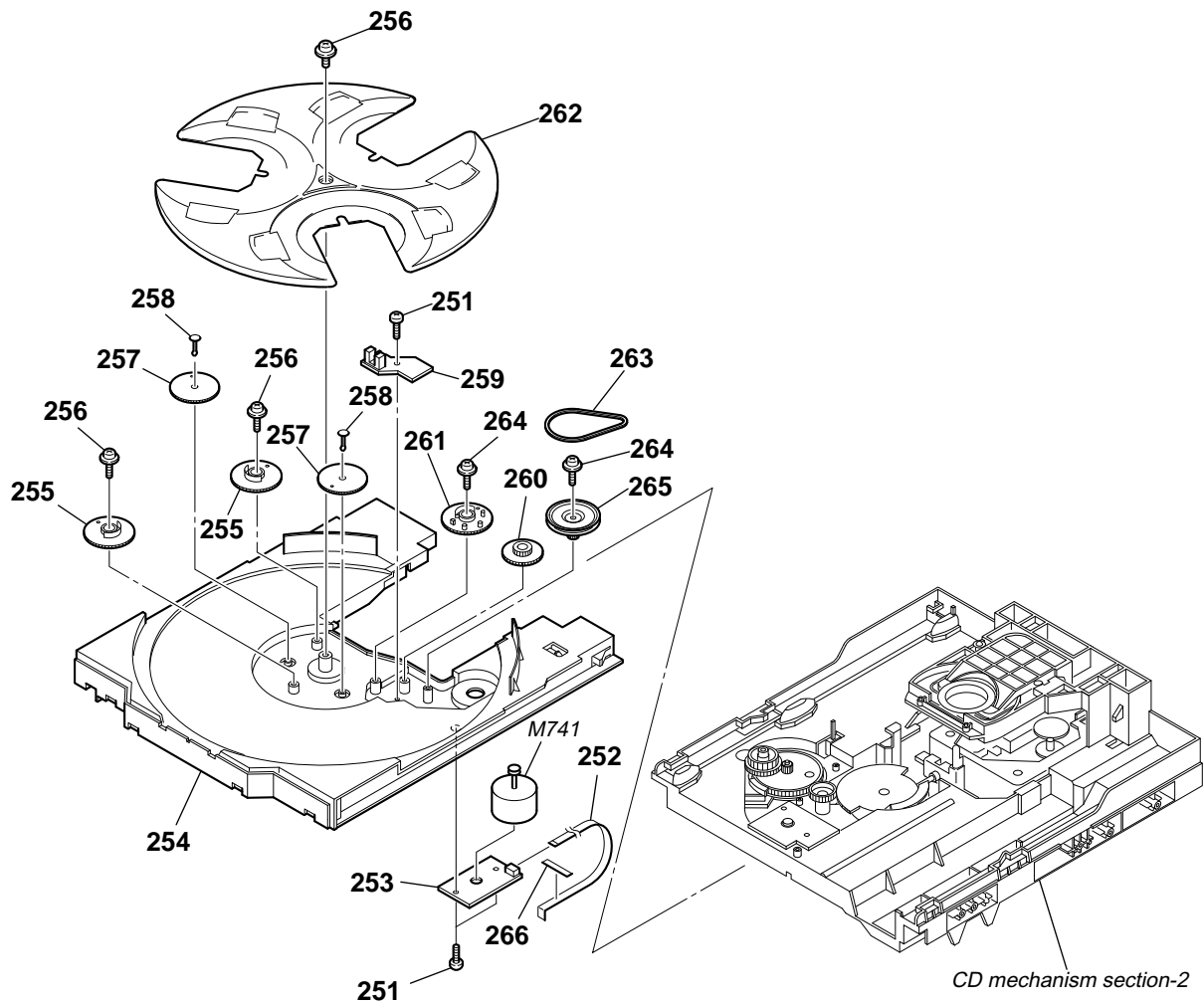
Ref. No.	Part No.	Description	Remark
151	4-218-253-42	SCREW (M2-6), +BTTP	
152	1-787-718-11	STEPPING MOTOR	
153	A-1486-921-A	METER DISPLAY ASSY	
#1	7-685-853-04	SCREW +BVT 2X6 (S)	

7-6. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
△201	1-785-504-11	Adaptor, Conversion (E2, E3, E51)		207	A-1471-087-A	POWER BOARD, COMPLETE (AEP)	
△202	1-777-071-83	CORD, POWER (AEP, E2, E3, E51)		207	A-1471-108-A	POWER BOARD, COMPLETE (GTX787: E2)	
△202	1-829-259-11	CORD, POWER (AUS)		207	A-1542-636-A	POWER BOARD, COMPLETE (GTX777: MX)	
△202	1-829-387-11	CORD, POWER (AR)					
203	3-703-244-00	CORD BUSH (2104)		207	A-1544-302-A	POWER BOARD, COMPLETE (GTX888: MX)	
204	1-457-369-11	CORE, FERRITE		208	4-900-386-01	SCREW	
205	A-1471-052-A	MAIN BOARD, COMPLETE (AUS)		209	3-077-331-21	+BV3 (3-CR)	
205	A-1471-060-A	MAIN BOARD, COMPLETE (GTX888: E3)		210	3-905-609-31	SCREW (TRANSISTOR)	
205	A-1471-076-A	MAIN BOARD, COMPLETE		△F1241	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)	
		(GTX777: E2, E51, AR)		△F1251	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)	
205	A-1471-083-A	MAIN BOARD, COMPLETE (AEP)		△F1261	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)	
205	A-1471-099-A	MAIN BOARD, COMPLETE (GTX777: E3)		△F1271	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)	
205	A-1471-104-A	MAIN BOARD, COMPLETE (GTX787: E2)		△F1281	1-532-504-33	FUSE (T4AL/250V)	
205	A-1542-586-A	MAIN BOARD, COMPLETE (GTX777: MX)		△F1282	1-532-388-33	FUSE (T2AL/250V) (GTX777:MX)	
205	A-1542-595-A	MAIN BOARD, COMPLETE (GTX888: MX)		M893	1-763-372-11	FAN, DC (GTX888)	
206	4-225-252-21	CUSHION (FOOT)		△PT1201	1-445-183-11	POWER TRANSFORMER	
207	A-1471-013-A	POWER BOARD, COMPLETE				(GTX777: EXCEPT AEP/GTX787: E2)	
		(GTX888: E2, E3, E51, AR, AUS)		△PT1201	1-445-185-11	POWER TRANSFORMER (GTX888: EXCEPT MX)	
207	A-1471-080-A	POWER BOARD, COMPLETE		△PT1201	1-445-281-11	POWER TRANSFORMER (GTX888: MX)	
		(GTX777: E2, E3, E51, AR)		△PT1201	1-445-443-11	POWER TRANSFORMER (GTX777: AEP)	
				#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

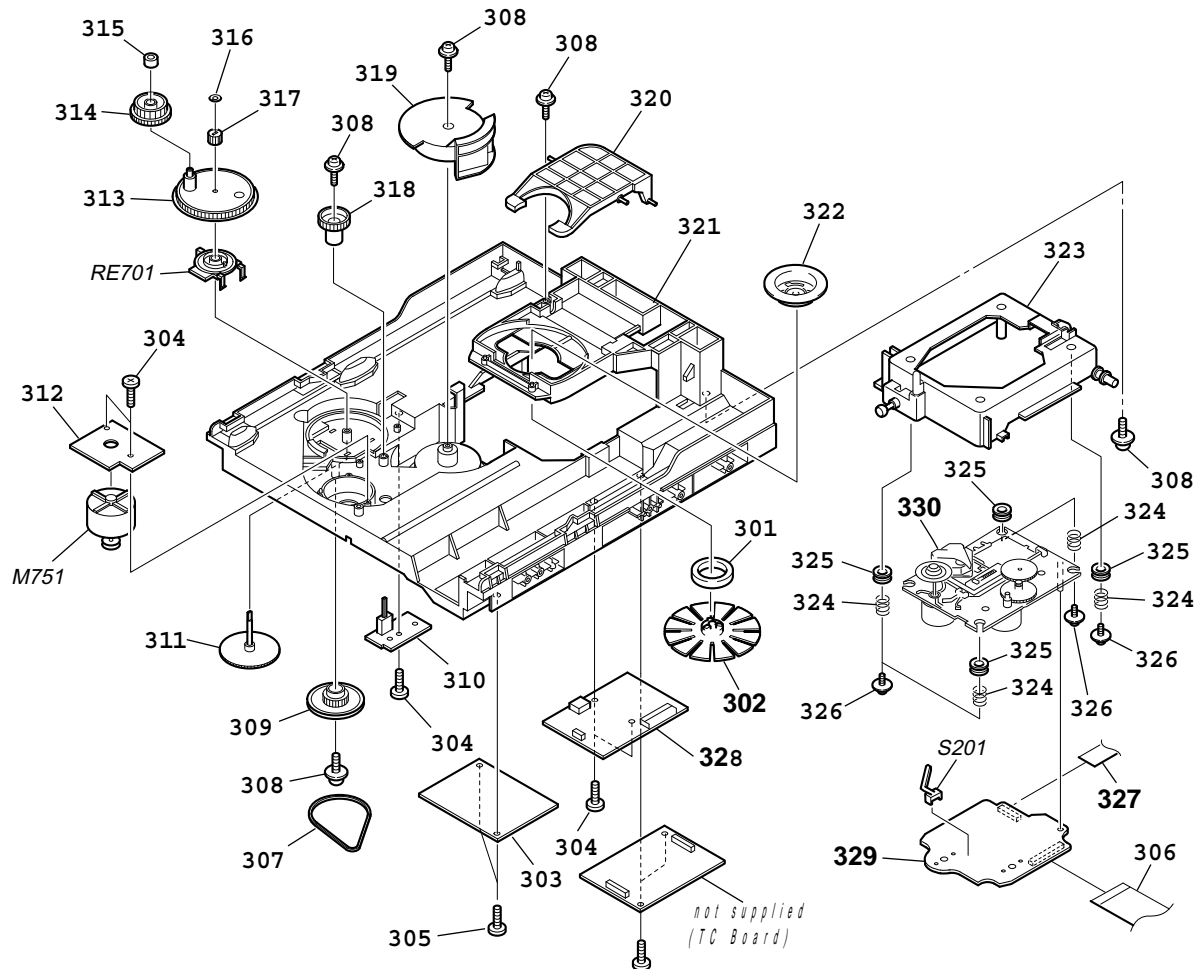
7-7. CD MECHANISM SECTION (1)
(CDM74KF-K6BD93UR-WOD)



Ref. No.	Part No.	Description	Remark
251	4-218-253-42	SCREW (M2.6), +BTTP	
252	1-828-938-11	WIRE (FLAT TYPE) (5 CORE) (EXCEPT MX)	
252	1-832-798-21	CABLE, FLEXIBLE FLAT (5 CORE) (MX)	
253	1-687-134-12	MOTOR (TB) BOARD	
254	4-243-815-11	TABLE (LOADING)	
255	4-245-571-02	GEAR (STOPPER)	
256	4-218-252-61	SCREW (+PTPWH M2.6), FLOATING	
257	4-245-570-01	GEAR (JOINT)	
258	4-245-572-01	BUSHING (GEAR)	
259	1-687-132-12	SENSOR BOARD	

Ref. No.	Part No.	Description	Remark
260	4-243-820-01	GEAR (TABLE)	
261	4-243-819-01	GEAR (GENEVA)	
262	4-243-816-11	TRAY	
263	4-243-823-01	BELT (TABLE)	
264	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
265	4-243-821-01	PULLEY (TABLE)	
266	3-231-598-01	SHEET (BA)	
M741	A-1108-965-A	MOTOR ASSY, (TABLE)	

7-8. CD MECHANISM SECTION (2)
(CDM74KF-K6BD93UR-WOD)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
301	1-471-035-11	MAGNET ASSY (EXCEPT MX)		320	4-243-822-02	LEVER (LIFTER)	
301	1-471-035-21	MAGNET ASSY (MX)		321	4-243-817-22	CHASSIS	
302	X-2102-809-3	PULLEY (KH) ASSY (MX)		322	4-231-189-01	PULLEY (B), CHUCKING (MX)	
302	X-4955-774-2	PULLEY (SM) ASSY, CHUCKING (EXCEPT MX)		322	4-221-688-01	PULLEY (B), CHUCKING (EXCEPT MX)	
303	A-1512-478-A	USB R BOARD, COMPLETE (EXCEPT MX)		323	X-2055-190-1	HOLDER (213) ASSY (MX)	
303	A-1552-465-A	USB R BOARD, COMPLETE (MX)		323	X-2179-682-1	HOLDER (213) ASSY (EXCEPT MX)	
304	4-218-253-52	SCREW (M2.6), +BTTP		324	4-227-045-11	SPRING (INSULATOR), COIL (EXCEPT MX)	
305	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3		324	4-227-045-31	SPRING (INSULATOR), COIL (MX)	
306	1-835-431-11	WIRE (FLAT TYPE) (31 CORE)		325	4-227-549-11	INSULATOR	
307	4-244-034-01	BELT (LOADING) (EXCEPT MX)		326	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
307	4-244-034-11	BELT (LOADING) (MX)		327	1-834-268-11	WIRE (FLAT TYPE) (16 CORE) (EXCEPT MX)	
308	4-218-252-52	SCREW (+PTPWH M2.6), FLOATING		327	1-834-268-21	WIRE (FLAT TYPE) (16 CORE) (MX)	
309	4-225-844-01	GEAR (LOADING A)		328	A-1103-756-B	DRIVER (F) BOARD, COMPLETE (MX)	
310	1-687-669-12	SW BOARD		328	A-1126-591-A	DRIVER (F) BOARD, COMPLETE (EXCEPT MX)	
311	4-224-613-11	GEAR (SHAFT)		329	A-1439-298-A	BD93 BOARD, COMPLETE (MX)	
312	1-687-133-12	MOTOR (LD) BOARD		329	A-1439-300-A	BD93 BOARD, COMPLETE (EXCEPT MX)	
313	4-244-108-01	GEAR, SWING		330	A-4735-357-A	BASE ASSY, OP	
314	4-224-609-01	GEAR (LOADING C)		M751	A-1108-966-A	MOTOR ASSY, (LOADING) (MX)	
315	4-224-608-01	COLLAR, SWING		M751	A-4737-553-A	MOTOR ASSY, (LOADING) (EXCEPT MX)	
316	3-016-533-11	WASHER (FR), STOPPER		RE701	1-477-680-12	ENCODER, ROTARY (DISC TRAY ADDRESS DETECT)	
317	4-224-611-01	GEAR (LOADING B)		S201	1-771-853-11	SWITCH, DETECTION (LIMIT)	
318	4-224-606-01	GEAR (RV)					
319	4-243-818-01	GEAR (U/D)					

SECTION 6
ELECTRICAL PARTS LIST

BD93

Note:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
uF: μ F

- COILS
uH: μ H
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . : μ A. . , uPA. . , μ PA. . ,
uPB. . : μ PB. . , uPC. . , μ PC. . ,
uPD. . : μ PD. .
- Accessories are given in the last of this parts list.

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

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

- Abbreviation
E2 : 120V AC area in E model
E3 : Middle Eastern, African and Indian model
E51 : Chilean and Peruvian model
AR : Argentina model
AUS : Australian model
MX : Mexican model

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	A-1439-298-A	BD93 BOARD, COMPLETE (MX)		C147	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V
	A-1439-300-A	BD93 BOARD, COMPLETE (EXCEPT MX)		C148	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
		*****		C149	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
		< CAPACITOR >		C150	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C100	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C151	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C101	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C152	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
C102	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C153	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C103	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C201	1-128-995-21	ELECT CHIP 100uF 20%	10V
C104	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C202	1-128-995-21	ELECT CHIP 100uF 20%	10V
				C204	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C105	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C205	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C106	1-128-995-21	ELECT CHIP 100uF 20%	10V	C206	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C107	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C207	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C108	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C217	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C109	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C218	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C110	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C301	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C112	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C302	1-137-710-91	CERAMIC CHIP 10uF 20%	6.3V
C113	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C303	1-137-710-91	CERAMIC CHIP 10uF 20%	6.3V
C115	1-124-778-00	ELECT CHIP 22uF 20%	6.3V	C306	1-128-995-21	ELECT CHIP 100uF 20%	10V
C116	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C307	1-165-908-11	CERAMIC CHIP 1uF 10%	10V
C117	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V	C309	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C118	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C401	1-128-394-11	ELECT CHIP 220uF 20%	10V
C119	1-164-227-11	CERAMIC CHIP 0.022uF 10%	25V	C403	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C120	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	C404	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C122	1-164-315-11	CERAMIC CHIP 470PF 5%	50V	C405	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C123	1-164-315-11	CERAMIC CHIP 470PF 5%	50V	C501	1-124-779-00	ELECT CHIP 10uF 20%	16V
C124	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V	C502	1-124-779-00	ELECT CHIP 10uF 20%	16V
C125	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V	C504	1-128-995-21	ELECT CHIP 100uF 20%	10V
C126	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C505	1-165-884-11	CERAMIC CHIP 2.2uF 10%	6.3V
C127	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V	C506	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C128	1-162-910-11	CERAMIC CHIP 5PF 0.25PF	50V	C507	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C130	1-162-910-11	CERAMIC CHIP 5PF 0.25PF	50V	C508	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C132	1-164-360-11	CERAMIC CHIP 0.1uF	16V	C509	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C133	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	C510	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C136	1-162-923-11	CERAMIC CHIP 47PF 5%	50V	C511	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C137	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V			< CONNECTOR >	
C138	1-164-315-11	CERAMIC CHIP 470PF 5%	50V	CN201	1-784-879-51	CONNECTOR, FFC (LIF (NON-ZIF)) 31P	
C139	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	CN301	1-770-425-51	CONNECTOR, FFC/FPC 16P	
C140	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V			< IC >	
C141	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V				
C142	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	IC101	6-712-082-01	IC TC94A70FG-101	
C143	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	IC201	6-710-808-01	IC TK63115SCL-G@GT	
C144	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V	IC401	6-710-637-01	IC BA5826SFP-E2	
C145	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V	IC501	6-710-840-01	IC AK5358AET-E2	
C146	1-164-315-11	CERAMIC CHIP 470PF 5%	50V				

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
IC502	6-707-870-01	IC TC74VHC157FT (EKJ)					R222	1-216-845-11	METAL CHIP	100K	5%	1/10W	
		< TRANSISTOR >					R223	1-216-845-11	METAL CHIP	100K	5%	1/10W	
Q301	6-551-120-01	TRANSISTOR 2SA2119K					R224	1-216-809-11	METAL CHIP	100	5%	1/10W	
		< RESISTOR >					R225	1-216-845-11	METAL CHIP	100K	5%	1/10W	
							R226	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R101	1-216-813-11	METAL CHIP	220	5%	1/10W		R301	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R102	1-216-833-11	METAL CHIP	10K	5%	1/10W		R302	1-216-864-11	SHORT CHIP	0			
R104	1-216-295-91	SHORT CHIP	0				R303	1-216-789-11	METAL CHIP	2.2	5%	1/10W	
R105	1-216-857-11	METAL CHIP	1M	5%	1/10W		R304	1-216-789-11	METAL CHIP	2.2	5%	1/10W	
R106	1-216-821-11	METAL CHIP	1K	5%	1/10W		R402	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
							R405	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R108	1-500-445-21	FERRITE, EMI (SMD) (2012)					R408	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R109	1-216-809-11	METAL CHIP	100	5%	1/10W								
R110	1-216-833-11	METAL CHIP	10K	5%	1/10W		R414	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R111	1-216-809-11	METAL CHIP	100	5%	1/10W		R415	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R112	1-216-809-11	METAL CHIP	100	5%	1/10W		R502	1-216-841-11	METAL CHIP	47K	5%	1/10W	
							R503	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R114	1-216-833-11	METAL CHIP	10K	5%	1/10W		R505	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R118	1-216-845-11	METAL CHIP	100K	5%	1/10W								
R120	1-216-864-11	SHORT CHIP	0				R508	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R121	1-216-809-11	METAL CHIP	100	5%	1/10W		R509	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R128	1-216-853-11	METAL CHIP	470K	5%	1/10W		R510	1-216-821-11	METAL CHIP	1K	5%	1/10W	
							R511	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R129	1-216-821-11	METAL CHIP	1K	5%	1/10W		R512	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R130	1-216-829-11	METAL CHIP	4.7K	5%	1/10W								
R134	1-216-857-11	METAL CHIP	1M	5%	1/10W		R513	1-216-809-11	METAL CHIP	100	5%	1/10W	
R135	1-216-853-11	METAL CHIP	470K	5%	1/10W		R514	1-216-864-11	SHORT CHIP	0			
R136	1-216-837-11	METAL CHIP	22K	5%	1/10W								
R139	1-216-841-11	METAL CHIP	47K	5%	1/10W		X102	1-795-101-21	VIBRATOR, CERAMIC (16.934MHz)				
R140	1-216-864-11	SHORT CHIP	0				*****						
R142	1-216-837-11	METAL CHIP	22K	5%	1/10W								
R143	1-216-841-11	METAL CHIP	47K	5%	1/10W								
R144	1-216-837-11	METAL CHIP	22K	5%	1/10W								
R151	1-216-864-11	SHORT CHIP	0										
R153	1-216-857-11	METAL CHIP	1M	5%	1/10W								
R154	1-216-857-11	METAL CHIP	1M	5%	1/10W		R916	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R155	1-216-805-11	METAL CHIP	47	5%	1/10W		R998	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R156	1-216-809-11	METAL CHIP	100	5%	1/10W		R999	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
							R1050	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	
R157	1-216-809-11	METAL CHIP	100	5%	1/10W		R1051	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	
R159	1-216-809-11	METAL CHIP	100	5%	1/10W								
R160	1-216-809-11	METAL CHIP	100	5%	1/10W								
R161	1-216-809-11	METAL CHIP	100	5%	1/10W								
R201	1-216-295-91	SHORT CHIP	0										
R202	1-216-295-91	SHORT CHIP	0				S913	1-762-875-21	SWITCH, KEYBOARD (DISC 3) (AEP)				
R203	1-216-809-11	METAL CHIP	100	5%	1/10W		S913	1-771-410-21	SWITCH, TACTILE (DISC 3) (EXCEPT AEP)				
R204	1-216-809-11	METAL CHIP	100	5%	1/10W		S941	1-762-875-21	SWITCH, KEYBOARD (OPEN/CLOSE) (AEP)				
R205	1-216-809-11	METAL CHIP	100	5%	1/10W		S941	1-771-410-21	SWITCH, TACTILE (OPEN/CLOSE) (EXCEPT AEP)				
R206	1-216-809-11	METAL CHIP	100	5%	1/10W		S951	1-762-875-21	SWITCH, KEYBOARD (DISC 2) (AEP)				
R207	1-216-809-11	METAL CHIP	100	5%	1/10W		S951	1-771-410-21	SWITCH, TACTILE (DISC 2) (EXCEPT AEP)				
R208	1-216-809-11	METAL CHIP	100	5%	1/10W		S952	1-762-875-21	SWITCH, KEYBOARD (DISC 1) (AEP)				
R209	1-216-809-11	METAL CHIP	100	5%	1/10W		S952	1-771-410-21	SWITCH, TACTILE (DISC 1) (EXCEPT AEP)				
R210	1-216-809-11	METAL CHIP	100	5%	1/10W		S953	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP/EX-CHANGE)				
R211	1-216-809-11	METAL CHIP	100	5%	1/10W								
							S953	1-771-410-21	SWITCH, TACTILE (DISC SKIP/EX-CHANGE)				
R212	1-216-809-11	METAL CHIP	100	5%	1/10W								
R213	1-216-809-11	METAL CHIP	100	5%	1/10W								
R214	1-216-809-11	METAL CHIP	100	5%	1/10W								
R216	1-216-809-11	METAL CHIP	100	5%	1/10W								
R218	1-216-845-11	METAL CHIP	100K	5%	1/10W								
R219	1-216-845-11	METAL CHIP	100K	5%	1/10W								
R220	1-216-845-11	METAL CHIP	100K	5%	1/10W								
R221	1-216-845-11	METAL CHIP	100K	5%	1/10W								

HCD-GTX777/GTX787/GTX888

DRIVER (F) ILLUMINATION

Ref. No.	Part No.	Description	Remark
	A-1103-756-B	DRIVER (F) BOARD, COMPLETE (MX)	
	A-1126-591-A	DRIVER (F) BOARD, COMPLETE (EXCEPT MX)	

		< CAPACITOR >	
C715	1-126-933-11	ELECT 100uF 20% 16V	
C731	1-126-964-11	ELECT 10uF 20% 50V	
C735	1-164-159-11	CERAMIC 0.1uF 50V	
		(EXCEPT MX)	
C735	1-164-159-21	CERAMIC 0.1uF 50V (MX)	
C736	1-164-159-11	CERAMIC 0.1uF 50V	
		(EXCEPT MX)	
C736	1-164-159-21	CERAMIC 0.1uF 50V (MX)	
C737	1-164-159-11	CERAMIC 0.1uF 50V	
		(EXCEPT MX)	
C737	1-164-159-21	CERAMIC 0.1uF 50V (MX)	
C741	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C751	1-162-306-11	CERAMIC 0.01uF 20% 16V	
C752	1-164-159-11	CERAMIC 0.1uF 50V	
		(EXCEPT MX)	
C752	1-164-159-21	CERAMIC 0.1uF 50V (MX)	
		< 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 ANGRE) 2P	
		< DIODE >	
D701	8-719-921-42	DIODE MTZJ-T-77-5.1A (MX)	
D701	8-719-947-16	DIODE MTZJ-T-72-5.1A (EXCEPT MX)	
D711	8-719-109-69	DIODE MTZJ-T-77-3.6B (MX)	
D711	8-719-983-66	DIODE MTZJ-T-72-3.6B (EXCEPT MX)	
		< 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	
R736	1-249-412-11	CARBON 390 5% 1/4W	
R751	1-249-425-11	CARBON 4.7K 5% 1/4W	

Ref. No.	Part No.	Description	Remark
		ILLUMINATION BOARD	

		< CONNECTOR >	
CN968	1-784-737-11	CONNECTOR, FFC 15P	
		< DIODE >	
D920	6-502-468-01	DI 1L034FV22D0DAC09 (POWER ILLUMINATOR)	
D921	6-502-468-01	DI 1L034FV22D0DAC09 (POWER ILLUMINATOR)	
D922	6-502-468-01	DI 1L034FV22D0DAC09 (POWER ILLUMINATOR)	
D923	6-502-468-01	DI 1L034FV22D0DAC09 (POWER ILLUMINATOR)	
D924	6-502-468-01	DI 1L034FV22D0DAC09 (POWER ILLUMINATOR)	
D925	6-502-468-01	DI 1L034FV22D0DAC09 (POWER ILLUMINATOR)	
		< RESISTOR >	
R950	1-216-823-11	METAL CHIP 1.5K 5% 1/10W	
R951	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R952	1-216-819-11	METAL CHIP 680 5% 1/10W	
R953	1-216-817-11	METAL CHIP 470 5% 1/10W	
R954	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R955	1-216-839-11	METAL CHIP 33K 5% 1/10W	
R956	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R957	1-216-835-11	METAL CHIP 15K 5% 1/10W	
R958	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R959	1-218-867-11	METAL CHIP 6.8K 0.5% 1/10W	
R960	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R961	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R962	1-216-819-11	METAL CHIP 680 5% 1/10W	
R963	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R965	1-216-817-11	METAL CHIP 470 5% 1/10W	
R967	1-216-817-11	METAL CHIP 470 5% 1/10W	
R969	1-216-817-11	METAL CHIP 470 5% 1/10W	
R971	1-216-817-11	METAL CHIP 470 5% 1/10W	
R973	1-216-817-11	METAL CHIP 470 5% 1/10W	
R975	1-216-817-11	METAL CHIP 470 5% 1/10W	
		< SWITCH >	
S901	1-762-875-21	SWITCH, KEYBOARD (SOUND FLASH) (AEP)	
S901	1-771-410-21	SWITCH, TACTILE (SOUND FLASH)	
		(EXCEPT AEP)	
S902	1-762-875-21	SWITCH, KEYBOARD (CHORUS) (AEP)	
S902	1-771-410-21	SWITCH, TACTILE (CHORUS) (EXCEPT AEP)	
S903	1-762-875-21	SWITCH, KEYBOARD (FLANGER) (AEP)	
S903	1-771-410-21	SWITCH, TACTILE (FLANGER) (EXCEPT AEP)	
S904	1-762-875-21	SWITCH, KEYBOARD (DELAY) (AEP)	
S904	1-771-410-21	SWITCH, TACTILE (DELAY) (EXCEPT AEP)	
S920	1-762-875-21	SWITCH, KEYBOARD (GO BACK/TUNING -)	
		(AEP)	
S920	1-771-410-21	SWITCH, TACTILE (GO BACK/TUNING -)	
		(EXCEPT AEP)	
S921	1-762-875-21	SWITCH, KEYBOARD (PLAY/PAUSE) (AEP)	
S921	1-771-410-21	SWITCH, TACTILE (PLAY/PAUSE) (EXCEPT AEP)	
S922	1-762-875-21	SWITCH, KEYBOARD (REWIND/FOLDER -) (AEP)	
S922	1-771-410-21	SWITCH, TACTILE (REWIND/FOLDER -)	
		(EXCEPT AEP)	
S923	1-762-875-21	SWITCH, KEYBOARD (EQ BAND/MEMORY)	
		(AEP)	
S923	1-771-410-21	SWITCH, TACTILE (EQ BAND/MEMORY)	
		(EXCEPT AEP)	
S924	1-762-875-21	SWITCH, KEYBOARD (PRESET EQ) (AEP)	

Ref. No.	Part No.	Description	Remark
S924	1-771-410-21	SWITCH, TACTILE (PRESET EQ) (EXCEPT AEP)	
S925	1-762-875-21	SWITCH, KEYBOARD (FAST FORWARD/FOLDER +) (AEP)	
S925	1-771-410-21	SWITCH, TACTILE (FAST FORWARD/FOLDER +) (EXCEPT AEP)	
S926	1-762-875-21	SWITCH, KEYBOARD (METER MODE) (AEP)	
S926	1-771-410-21	SWITCH, TACTILE (METER MODE) (EXCEPT AEP)	
S927	1-762-875-21	SWITCH, KEYBOARD (DISPLAY) (AEP)	
S927	1-771-410-21	SWITCH, TACTILE (DISPLAY) (EXCEPT AEP)	
S937	1-762-875-21	SWITCH, KEYBOARD (STOP) (AEP)	
S937	1-771-410-21	SWITCH, TACTILE (STOP) (EXCEPT AEP)	
S950	1-762-875-21	SWITCH, KEYBOARD (GO FORWARD/TUNING +) (AEP)	
S950	1-771-410-21	SWITCH, TACTILE (GO FORWARD/TUNING +) (EXCEPT AEP)	

	A-1471-008-A	MAIN BOARD, COMPLETE (GTX888: E2, E51, AR)	
	A-1471-052-A	MAIN BOARD, COMPLETE (GTX888: AUS)	
	A-1471-060-A	MAIN BOARD, COMPLETE (GTX888: E3)	
	A-1471-076-A	MAIN BOARD, COMPLETE (GTX777: E2, E51, AR)	
	A-1471-083-A	MAIN BOARD, COMPLETE (GTX777: AEP)	
	A-1471-099-A	MAIN BOARD, COMPLETE (GTX777: E3)	
	A-1471-104-A	MAIN BOARD, COMPLETE (GTX787: E2)	
	A-1542-586-A	MAIN BOARD, COMPLETE (GTX777: MX)	
	A-1542-595-A	MAIN BOARD, COMPLETE (GTX888: MX)	

	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
	< CAPACITOR >		
C1	1-126-963-11	ELECT 4.7uF 20%	50V
C2	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C4	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C5	1-126-941-11	ELECT 470uF 20%	25V
C6	1-126-963-11	ELECT 4.7uF 20%	50V
C8	1-126-964-11	ELECT 10uF 20%	50V
C10	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
C11	1-126-964-11	ELECT 10uF 20%	50V
C12	1-126-959-11	ELECT 0.47uF 20%	50V
C13	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C14	1-104-658-91	ELECT 100uF 20%	10V
C15	1-104-655-91	ELECT 470uF 20%	6.3V
C16	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V
C18	1-126-964-11	ELECT 10uF 20%	50V
C19	1-100-597-91	CERAMIC CHIP 0.1uF 10%	25V
C22	1-126-934-11	ELECT 220uF 20%	16V
C23	1-100-756-91	CERAMIC CHIP 0.047uF	50V
C25	1-136-169-00	FILM 0.22uF 5%	50V (GTX888)
C25	1-136-170-00	FILM 0.27uF 5%	50V (GTX777)
C25	1-136-171-00	FILM 0.33uF 5%	50V (GTX787)
C26	1-126-964-11	ELECT 10uF 20%	50V
C27	1-137-190-91	FILM 0.22uF 5%	50V
C29	1-126-961-11	ELECT 2.2uF 20%	50V
C30	1-126-964-11	ELECT 10uF 20%	50V
C31	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
C33	1-130-491-00	MYLAR 0.047uF 5%	50V
C38	1-126-964-11	ELECT 10uF 20%	50V

Ref. No.	Part No.	Description	Remark
C39	1-126-964-11	ELECT 10uF 20%	50V
C40	1-126-964-11	ELECT 10uF 20%	50V
C41	1-126-964-11	ELECT 10uF 20%	50V
C43	1-126-964-11	ELECT 10uF 20%	50V
C44	1-126-964-11	ELECT 10uF 20%	50V
C45	1-126-964-11	ELECT 10uF 20%	50V
C46	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V (GTX787/GTX888)
C46	1-164-174-11	CERAMIC CHIP 0.0082uF 10%	25V (GTX777)
C47	1-162-974-11	CERAMIC CHIP 0.01uF	
C48	1-125-779-21	CERAMIC CHIP 0.022uF 5%	25V
C49	1-126-959-11	ELECT 0.47uF 20%	50V
C50	1-126-964-11	ELECT 10uF 20%	50V
C51	1-126-964-11	ELECT 10uF 20%	50V (GTX888)
C54	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C60	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
C61	1-126-964-11	ELECT 10uF 20%	50V
C75	1-137-190-91	FILM 0.22uF 5%	50V (GTX888)
C75	1-136-170-00	FILM 0.27uF 5%	50V (GTX777)
C75	1-136-171-00	FILM 0.33uF 5%	50V (GTX787)
C76	1-126-964-11	ELECT 10uF 20%	50V
C77	1-137-190-91	FILM 0.22uF 5%	50V
C79	1-126-961-11	ELECT 2.2uF 20%	50V
C80	1-126-964-11	ELECT 10uF 20%	50V
C81	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
C83	1-130-491-00	MYLAR 0.047uF 5%	50V
C88	1-126-964-11	ELECT 10uF 20%	50V
C89	1-126-964-11	ELECT 10uF 20%	50V
C90	1-126-964-11	ELECT 10uF 20%	50V
C91	1-126-964-11	ELECT 10uF 20%	50V
C93	1-126-964-11	ELECT 10uF 20%	50V
C96	1-162-970-11	CERAMIC CHIP 0.01uF 10%	25V (GTX787/GTX888)
C96	1-164-174-11	CERAMIC CHIP 0.0082uF 10%	25V (GTX777)
C97	1-162-974-11	CERAMIC CHIP 0.01uF	50V
C98	1-125-779-21	CERAMIC CHIP 0.022uF 5%	25V
C100	1-126-964-11	ELECT 10uF 20%	50V (GTX787)
C101	1-126-964-11	ELECT 10uF 20%	50V (GTX888)
C102	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
C103	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C104	1-162-968-11	CERAMIC CHIP 0.0047uF 10%	50V
C105	1-126-966-11	ELECT 33uF 20%	50V
C106	1-126-964-11	ELECT 10uF 20%	50V
C107	1-162-964-11	CERAMIC CHIP 0.001uF 10%	50V
C109	1-126-935-11	ELECT 470uF 20%	16V
C110	1-162-919-11	CERAMIC CHIP 22PF 5%	50V
C111	1-126-960-11	ELECT 1uF 20%	50V
C112	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C113	1-162-923-11	CERAMIC CHIP 47PF 5%	50V
C114	1-126-968-11	ELECT 100uF 20%	50V
C115	1-126-947-11	ELECT 47uF 20%	35V
C117	1-162-962-11	CERAMIC CHIP 470PF 10%	50V
C118	1-126-965-91	ELECT 22uF 20%	50V
C119	1-126-961-11	ELECT 2.2uF 20%	50V

HCD-GTX777/GTX787/GTX888

Ver. 1.1

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C120	1-126-963-11	ELECT	4.7uF	20%	50V	C416	1-126-916-11	ELECT	1000uF	20%	6.3V
C121	1-126-961-11	ELECT	2.2uF	20%	50V	C417	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C144	1-126-964-11	ELECT	10uF	20%	50V	C437	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C150	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C438	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C152	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C439	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C156	1-126-964-11	ELECT	10uF	20%	50V	C462	1-104-658-91	ELECT	100uF	20%	10V
C160	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C464	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C163	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C465	1-164-361-11	CERAMIC CHIP	0.047uF		25V
C165	1-126-947-11	ELECT	47uF	20%	35V	C494	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C167	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C496	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C175	1-128-548-11	ELECT	4700uF	20%	25V	C498	1-126-964-11	ELECT	10uF	20%	50V
C180	1-126-767-11	ELECT	1000uF	20%	16V	C499	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C188	1-130-483-00	MYLAR	0.01uF	5%	50V	C500	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C189	1-130-483-00	MYLAR	0.01uF	5%	50V	C501	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C201	1-126-961-11	ELECT	2.2uF	20%	50V	C502	1-126-960-11	ELECT	1uF	20%	50V
C202	1-126-964-11	ELECT	10uF	20%	50V	C503	1-107-726-91	CERAMIC CHIP	0.01uF	10%	16V
C203	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C504	1-104-658-91	ELECT	100uF	20%	10V
C204	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C505	1-126-957-11	ELECT	0.22uF	20%	50V
C205	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C506	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C207	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C507	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C209	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C508	1-126-957-11	ELECT	0.22uF	20%	50V
C211	1-126-947-11	ELECT	47uF	20%	10V	C510	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C212	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C511	1-126-967-11	ELECT	47uF	20%	50V
C213	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C512	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C214	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V	C514	1-126-947-11	ELECT	47uF	20%	35V
C215	1-126-964-11	ELECT	10uF	20%	50V	C515	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C216	1-126-964-11	ELECT	10uF	20%	50V	C516	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C217	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C517	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C218	1-126-925-91	ELECT	470uF	20%	10V	C518	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C220	1-104-658-91	ELECT	100uF	20%	10V	C519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C221	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	C521	1-126-964-11	ELECT	10uF	20%	50V
C222	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	C522	1-126-964-11	ELECT	10uF	20%	50V
C223	1-104-665-11	ELECT	100uF	20%	25V	C523	1-126-964-11	ELECT	10uF	20%	50V
C224	1-104-665-11	ELECT	100uF	20%	25V	C524	1-130-479-00	MYLAR	0.0047uF	5%	50V
C225	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C526	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C226	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	C528	1-126-964-11	ELECT	10uF	20%	50V
C227	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	C531	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C228	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C573	1-126-964-11	ELECT	10uF	20%	50V
C229	1-126-964-11	ELECT	10uF	20%	50V	C574	1-130-479-00	MYLAR	0.0047uF	5%	50V
C246	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C576	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C252	1-126-926-11	ELECT	1000uF	20%	10V	C581	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C254	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C654	1-126-964-11	ELECT	10uF	20%	50V
C256	1-126-964-11	ELECT	10uF	20%	50V	C656	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C257	1-126-925-91	ELECT	470uF	20%	10V	C657	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C258	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	C2002	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C259	1-126-943-11	ELECT	2200uF	20%	25V	C2003	1-136-498-81	FILM	0.12uF	5%	50V
C261	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C2005	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C262	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	C2007	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C263	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	C2008	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C264	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C2030	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C265	1-104-660-91	ELECT	47uF	20%	16V	C2031	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C266	1-126-942-61	ELECT	1000uF	20%	25V	C2032	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C301	1-126-964-11	ELECT	10uF	20%	50V	C2053	1-136-498-81	FILM	0.12uF	5%	50V
C302	1-115-156-11	CERAMIC CHIP	1uF		10V	C2055	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C410	1-162-918-11	CERAMIC CHIP	18PF	5%	50V						(GTX888)
C411	1-162-919-11	CERAMIC CHIP	22PF	5%	50V						(GTX888)
C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V						(GTX888)
C414	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V						(GTX888)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C2057	1-107-826-11	CERAMIC CHIP 0.1uF 10%	16V (GTX888)			< IC >	
C2058	1-110-563-11	CERAMIC CHIP 0.068uF 10%	16V (GTX888)	IC50	6-712-027-01	IC R2A15216FP	
		< CONNECTOR >		IC51	8-759-100-96	IC NJM4558M-TE2	
CN100	1-568-830-11	CONNECTOR, FFC 11P (AEP)		IC100	8-759-100-96	IC NJM4558M-TE2	
CN101	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P		IC200	6-707-870-01	IC TC74VHC157FT (EKJ)	
CN102	1-568-830-11	CONNECTOR, FFC 11P		IC201	8-759-523-03	IC TC74HC4066AFT (EL)	
CN103	1-784-770-11	CONNECTOR, FFC 9P		IC202	8-759-523-03	IC TC74HC4066AFT (EL)	
CN106	1-784-031-41	CONNECTOR, BOARD TO BOARD 8P		IC203	6-703-547-01	IC TA7805LS	
CN110	1-784-735-11	CONNECTOR, FFC 13P		IC204	6-702-771-01	IC TA78033LS	
CN112	1-785-336-11	PIN, CONNECTOR (LIGHT ANGLE) 10P		IC205	6-703-550-01	IC TA7809LS	
CN113	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P		IC206	6-703-550-01	IC TA7809LS	
CN114	1-784-786-11	CONNECTOR, FFC 25P		IC207	6-703-550-01	IC TA7809LS	
CN115	1-568-826-11	CONNECTOR, FFC 7P		IC208	6-701-760-01	IC uPC3504AHF	
CN200	1-820-048-11	CONNECTOR (LIGHTING)		IC209	6-703-550-01	IC TA7809LS	
CN201	1-820-049-11	CONNECTOR (SUBWOOFER) (GTX888)		IC401	(Not supplied)	IC R5F3640MDFAR	
CN202	1-564-506-11	PLUG, CONNECTOR 3P		IC500	6-709-217-01	IC TC74LVX4051FT	
CN204	1-779-289-11	CONNECTOR, FFC (LIF (NON-ZIF)) 21P		IC501	8-759-496-41	IC M65850FP-E1	
CN205	1-784-031-41	CONNECTOR, BOARD TO BOARD 8P		IC502	8-759-100-96	IC NJM4558M-TE2	
CN206	1-564-506-11	PLUG, CONNECTOR 3P		IC675	(Not supplied)	IC S-24CS16A0I-J8T1G	
CN430	1-779-299-11	CONNECTOR, FFC (LIF (NON-ZIF)) 31P		IC2030	8-759-100-96	IC NJM4558M-TE2 (GTX888)	
		< FERRITE BEAD >		IC2031	8-759-100-96	IC NJM4558M-TE2 (GTX888)	
FB207	1-469-562-21	FERRITE, EMI (SMD) (1608)				< JACK >	
		< DIODE >		J100	1-815-045-11	JACK, PIN 2P	
D100	6-501-817-01	DIODE MA2J1110GLS0				< JUMPER RESISTOR >	
D101	6-501-579-01	DIODE MC2837		JR11	1-216-296-11	SHORT CHIP 0	
D102	6-501-817-01	DIODE MA2J1110GLS0		JR101	1-216-296-11	SHORT CHIP 0	
D107	6-500-522-21	DIODE 10EDB40-TB3		JR102	1-216-296-11	SHORT CHIP 0	
D108	6-500-522-21	DIODE 10EDB40-TB3		JR103	1-216-296-11	SHORT CHIP 0	
D110	6-501-772-01	DIODE MAZ8130GMLS0		JR104	1-216-296-11	SHORT CHIP 0	
D114	8-719-500-60	DIODE D5SBA20		JR105	1-216-296-11	SHORT CHIP 0	
D200	6-501-738-01	DIODE MAZ8062GMLS0		JR108	1-216-296-11	SHORT CHIP 0	
D201	6-501-579-01	DIODE MC2837		JR109	1-216-864-11	SHORT CHIP 0	
D202	6-501-817-01	DIODE MA2J1110GLS0		JR110	1-216-296-11	SHORT CHIP 0	
D203	6-501-743-01	DIODE MAZ8068GMLS0		JR111	1-216-296-11	SHORT CHIP 0	
D204	8-719-071-54	DIODE HZU2.0BTRF		JR112	1-216-296-11	SHORT CHIP 0	
D205	6-501-726-01	DIODE MAZ8047GMLS0		JR113	1-216-296-11	SHORT CHIP 0	
D206	6-501-817-01	DIODE MA2J1110GLS0		JR114	1-216-296-11	SHORT CHIP 0	
D207	6-501-817-01	DIODE MA2J1110GLS0		JR115	1-216-296-11	SHORT CHIP 0	
D208	6-501-817-01	DIODE MA2J1110GLS0		JR116	1-216-296-11	SHORT CHIP 0	
D209	6-500-334-01	DIODE MC2836-T112-1		JR117	1-216-296-11	SHORT CHIP 0	
D210	6-501-722-01	DIODE MAZ8043GMLS0		JR118	1-216-296-11	SHORT CHIP 0	
D212	6-501-817-01	DIODE MA2J1110GLS0		JR119	1-216-296-11	SHORT CHIP 0	
D216	8-719-058-24	DIODE RB501V-40TE-17		JR120	1-216-296-11	SHORT CHIP 0	
D219	6-501-817-01	DIODE MA2J1110GLS0		JR121	1-216-296-11	SHORT CHIP 0	
D220	6-501-734-01	DIODE MAZ8056GMLS0		JR122	1-216-296-11	SHORT CHIP 0	
D221	6-500-522-21	DIODE 10EDB40-TB3		JR123	1-216-296-11	SHORT CHIP 0	
D222	6-500-522-21	DIODE 10EDB40-TB3		JR124	1-216-296-11	SHORT CHIP 0	
D223	6-501-817-01	DIODE MA2J1110GLS0		JR125	1-216-864-11	SHORT CHIP 0	
D224	6-501-817-01	DIODE MA2J1110GLS0		JR126	1-216-864-11	SHORT CHIP 0	
D227	6-500-522-21	DIODE 10EDB40-TB3		JR127	1-216-296-11	SHORT CHIP 0	
D228	6-500-522-21	DIODE 10EDB40-TB3		JR128	1-216-296-11	SHORT CHIP 0	
D490	6-501-817-01	DIODE MA2J1110GLS0		JR129	1-216-296-11	SHORT CHIP 0	
D500	6-501-738-01	DIODE MAZ8062GMLS0		JR130	1-216-296-11	SHORT CHIP 0	
D501	6-501-817-01	DIODE MA2J1110GLS0		JR131	1-216-296-11	SHORT CHIP 0	
D502	6-501-817-01	DIODE MA2J1110GLS0		JR132	1-216-296-11	SHORT CHIP 0	
				JR133	1-216-295-91	SHORT CHIP 0	
				JR134	1-216-296-11	SHORT CHIP 0	
				JR135	1-216-296-11	SHORT CHIP 0	

HCD-GTX777/GTX787/GTX888

Ver. 1.1

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
JR136	1-216-296-11	SHORT CHIP	0	Q221	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF
JR137	1-216-296-11	SHORT CHIP	0	Q222	8-729-027-44	TRANSISTOR	DTC114TKA-T146
JR138	1-216-296-11	SHORT CHIP	0	Q223	8-729-027-44	TRANSISTOR	DTC114TKA-T146
JR139	1-216-296-11	SHORT CHIP	0	Q303	8-729-027-23	TRANSISTOR	DTA114EKA-T146
JR140	1-216-296-11	SHORT CHIP	0	Q457	6-551-681-01	TRANSISTOR	RT1P431C-TP-1
JR141	1-216-296-11	SHORT CHIP	0	Q500	8-729-055-10	TRANSISTOR	2SK3378ENTL
JR142	1-216-296-11	SHORT CHIP	0	Q501	8-729-055-10	TRANSISTOR	2SK3378ENTL
JR143	1-216-864-11	SHORT CHIP	0	Q502	8-729-056-46	TRANSISTOR	2SC5053T100Q
JR144	1-216-296-11	SHORT CHIP	0	Q503	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF
JR145	1-216-296-11	SHORT CHIP	0	Q504	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF
JR146	1-216-296-11	SHORT CHIP	0	Q505	8-729-055-10	TRANSISTOR	2SK3378ENTL
JR147	1-216-296-11	SHORT CHIP	0	Q555	8-729-055-10	TRANSISTOR	2SK3378ENTL
JR148	1-216-296-11	SHORT CHIP	0	Q627	8-729-037-13	TRANSISTOR	KTA1271Y-AT
JR149	1-216-296-11	SHORT CHIP	0	Q628	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF
JR150	1-216-296-11	SHORT CHIP	0	< RESISTOR >			
JR151	1-216-296-11	SHORT CHIP	0	R1	1-216-843-11	METAL CHIP	68K 5% 1/10W
JR152	1-216-864-11	SHORT CHIP	0	R2	1-216-833-11	METAL CHIP	10K 5% 1/10W
JR155	1-216-864-11	SHORT CHIP	0	R3	1-216-817-11	METAL CHIP	470 5% 1/10W
JR156	1-216-296-11	SHORT CHIP	0	R4	1-216-821-11	METAL CHIP	1K 5% 1/10W
JR157	1-216-296-11	SHORT CHIP	0	R6	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
JR158	1-216-864-11	SHORT CHIP	0	R7	1-216-821-11	METAL CHIP	1K 5% 1/10W
JR189	1-216-864-11	SHORT CHIP	0	R8	1-216-821-11	METAL CHIP	1K 5% 1/10W
JR190	1-216-864-11	SHORT CHIP	0	R9	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
JR191	1-216-864-11	SHORT CHIP	0	R10	1-216-835-11	METAL CHIP	15K 5% 1/10W
JR192	1-216-864-11	SHORT CHIP	0	R11	1-216-833-11	METAL CHIP	10K 5% 1/10W
< COIL >				R12	1-216-833-11	METAL CHIP	10K 5% 1/10W
L100	1-412-245-51	INDUCTOR	560UH	R13	1-216-840-11	METAL CHIP	39K 5% 1/10W
< TRANSISTOR >				R14	1-216-840-11	METAL CHIP	39K 5% 1/10W
Q1	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	R16	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q2	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	R17	1-216-818-11	METAL CHIP	560 5% 1/10W
Q3	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF (GTX888)	(GTX777)			
Q51	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	R17	1-220-373-11	METAL CHIP	620 5% 1/10W
Q52	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	(GTX787/GTX888)			
Q53	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF (GTX888)	R18	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q100	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	R19	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q101	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	R20	1-216-839-11	METAL CHIP	33K 5% 1/10W
Q108	8-729-027-44	TRANSISTOR	DTC114TKA-T146	R21	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q110	8-729-027-44	TRANSISTOR	DTC114TKA-T146	R22	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q111	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	R23	1-216-839-11	METAL CHIP	33K 5% 1/10W
Q112	8-729-026-68	TRANSISTOR	2SD2525 (TP)	R24	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q150	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	R25	1-216-845-11	METAL CHIP	100K 5% 1/10W
(GTX777/GTX787)				R26	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q151	8-729-040-76	TRANSISTOR	KTA1273-Y-AT	(GTX888)			
(GTX777/GTX787)				R27	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q152	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	(GTX888)			
Q153	8-729-040-76	TRANSISTOR	KTA1273-Y-AT	R28	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
Q202	8-729-036-86	TRANSISTOR	KTC3203Y-AT	R29	1-216-857-11	METAL CHIP	1M 5% 1/10W
Q207	8-729-038-28	TRANSISTOR	RT1N441C-TP-1	R30	1-216-845-11	METAL CHIP	100K 5% 1/10W
Q208	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	R32	1-216-817-11	METAL CHIP	470 5% 1/10W
Q209	8-729-037-13	TRANSISTOR	KTA1271Y	(GTX888)			
Q210	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	R33	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
Q211	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	R35	1-216-864-11	SHORT CHIP	0
Q212	8-729-038-28	TRANSISTOR	RT1N441C-TP-1	R40	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q213	8-729-038-28	TRANSISTOR	RT1N441C-TP-1	R47	1-216-849-11	METAL CHIP	220K 5% 1/10W
Q214	8-729-920-79	TRANSISTOR	2SB1132-T100-QR	R48	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q215	8-729-920-79	TRANSISTOR	2SB1132-T100-QR	R52	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q217	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	R53	1-216-817-11	METAL CHIP	470 5% 1/10W
Q220	8-729-027-44	TRANSISTOR	DTC114TKA-T146	(GTX888: E2,E51,AR)			

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R54	1-216-821-11	METAL CHIP	1K	5%	1/10W	R131	1-249-401-11	CARBON	47	5%	1/4W
R56	1-216-833-11	METAL CHIP	10K	5%	1/10W	R132	1-216-809-11	METAL CHIP	100	5%	1/10W
R57	1-216-821-11	METAL CHIP	1K	5%	1/10W	R133	1-216-833-11	METAL CHIP	10K	5%	1/10W
						△ R134	1-249-401-11	CARBON	47	5%	1/4W
R58	1-216-821-11	METAL CHIP	1K	5%	1/10W	△ R135	1-249-401-11	CARBON	47	5%	1/4W
R60	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R67	1-216-818-11	METAL CHIP	560	5%	1/10W	R136	1-216-835-11	METAL CHIP	15K	5%	1/10W
					(GTX777)	R137	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R67	1-220-373-11	METAL CHIP	620	5%	1/10W	R151	1-216-841-11	METAL CHIP	47K	5%	1/10W
					(GTX787/GTX888)	R152	1-216-864-11	SHORT CHIP	0		
R68	1-216-837-11	METAL CHIP	22K	5%	1/10W	R153	1-216-849-11	METAL CHIP	220K	5%	1/10W
R69	1-216-833-11	METAL CHIP	10K	5%	1/10W	R156	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(GTX777/GTX787)						(AEP, E3, MX, AUS)
R69	1-216-838-11	METAL CHIP	27K	5%	1/10W	R156	1-216-833-11	METAL CHIP	10K	5%	1/10W
					(GTX888)						(E2, E51, AR)
R70	1-216-839-11	METAL CHIP	33K	5%	1/10W	R157	1-216-849-11	METAL CHIP	220K	5%	1/10W
R71	1-216-833-11	METAL CHIP	10K	5%	1/10W	R165	1-216-845-11	METAL CHIP	100K	5%	1/10W
R72	1-216-833-11	METAL CHIP	10K	5%	1/10W	R166	1-216-817-11	METAL CHIP	470	5%	1/10W
R73	1-216-839-11	METAL CHIP	33K	5%	1/10W	R171	1-216-833-11	METAL CHIP	10K	5%	1/10W
R74	1-216-864-11	SHORT CHIP	0			R172	1-216-838-11	METAL CHIP	27K	5%	1/10W
R75	1-216-845-11	METAL CHIP	100K	5%	1/10W	R174	1-216-817-11	METAL CHIP	470	5%	1/10W
					(GTX888)	R203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R76	1-216-833-11	METAL CHIP	10K	5%	1/10W	R204	1-216-845-11	METAL CHIP	100K	5%	1/10W
					(GTX888)						
R77	1-216-821-11	METAL CHIP	1K	5%	1/10W	R205	1-216-864-11	SHORT CHIP	0		
					(GTX888)	R206	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R208	1-216-833-11	METAL CHIP	10K	5%	1/10W
R78	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R209	1-216-864-11	SHORT CHIP	0		
						R212	1-216-821-11	METAL CHIP	1K	5%	1/10W
R82	1-216-817-11	METAL CHIP	470	5%	1/10W						
					(GTX888)	R214	1-216-819-11	METAL CHIP	680	5%	1/10W
R83	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R216	1-216-864-11	SHORT CHIP	0		
R90	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R218	1-216-833-11	METAL CHIP	10K	5%	1/10W
R97	1-216-849-11	METAL CHIP	220K	5%	1/10W	R222	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R227	1-216-833-11	METAL CHIP	10K	5%	1/10W
R98	1-216-841-11	METAL CHIP	47K	5%	1/10W	R228	1-216-845-11	METAL CHIP	100K	5%	1/10W
R100	1-216-833-11	METAL CHIP	10K	5%	1/10W	R229	1-216-845-11	METAL CHIP	100K	5%	1/10W
R101	1-216-841-11	METAL CHIP	47K	5%	1/10W	R230	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R102	1-216-833-11	METAL CHIP	10K	5%	1/10W	R231	1-216-819-11	METAL CHIP	680	5%	1/10W
R103	1-216-849-11	METAL CHIP	220K	5%	1/10W	R232	1-216-833-11	METAL CHIP	10K	5%	1/10W
R104	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R233	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R105	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R234	1-216-833-11	METAL CHIP	10K	5%	1/10W
R106	1-216-821-11	METAL CHIP	1K	5%	1/10W	R235	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
					(AEP, E3, MX, AUS)	R236	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R106	1-216-833-11	METAL CHIP	10K	5%	1/10W	R237	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
					(E2, E51, AR)						
R107	1-216-849-11	METAL CHIP	220K	5%	1/10W						
						R238	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R113	1-216-845-11	METAL CHIP	100K	5%	1/10W	R239	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R114	1-216-845-11	METAL CHIP	100K	5%	1/10W	R240	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R115	1-216-845-11	METAL CHIP	100K	5%	1/10W	R241	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R116	1-216-817-11	METAL CHIP	470	5%	1/10W	R242	1-216-833-11	METAL CHIP	10K	5%	1/10W
R117	1-216-809-11	METAL CHIP	100	5%	1/10W						
						R243	1-216-837-11	METAL CHIP	22K	5%	1/10W
R119	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	R244	1-216-833-11	METAL CHIP	10K	5%	1/10W
R121	1-216-833-11	METAL CHIP	10K	5%	1/10W	R255	1-216-833-11	METAL CHIP	10K	5%	1/10W
R122	1-216-838-11	METAL CHIP	27K	5%	1/10W	R257	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R123	1-216-845-11	METAL CHIP	100K	5%	1/10W	R258	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R124	1-216-817-11	METAL CHIP	470	5%	1/10W						
						R266	1-216-833-11	METAL CHIP	10K	5%	1/10W
△ R126	1-249-401-11	CARBON	47	5%	1/4W	R267	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
					(GTX777/GTX787)	R269	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
△ R127	1-249-401-11	CARBON	47	5%	1/4W	R305	1-216-833-11	METAL CHIP	10K	5%	1/10W
					(GTX777/GTX787)	R306	1-216-833-11	METAL CHIP	10K	5%	1/10W
△ R128	1-249-401-11	CARBON	47	5%	1/4W						
					(GTX777/GTX787)	R327	1-216-809-11	METAL CHIP	100	5%	1/10W
R129	1-216-817-11	METAL CHIP	470	5%	1/10W	R328	1-216-853-11	METAL CHIP	470K	5%	1/10W
R130	1-216-819-11	METAL CHIP	680	5%	1/10W	R329	1-216-833-11	METAL CHIP	10K	5%	1/10W
						R330	1-216-833-11	METAL CHIP	10K	5%	1/10W

HCD-GTX777/GTX787/GTX888

Ver. 1.1

MAIN

Ref. No.	Part No.	Description				Remark
R331	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R341	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R346	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R355	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R359	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R365	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R368	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R369	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R370	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R379	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R380	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R381	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R382	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R384	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R385	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R386	1-216-835-11	METAL CHIP	15K	5%	1/10W	
R387	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R388	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R391	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	
R392	1-216-819-11	METAL CHIP	680	5%	1/10W	
R392	1-216-821-11	METAL CHIP	1K	5%	1/10W	(MX) (E2, E51, AR)
R392	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	(GTX777: AEP,E3/GTX888: E3,AUS)
R395	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R397	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R400	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R402	1-216-809-11	METAL CHIP	100	5%	1/10W	
R403	1-216-809-11	METAL CHIP	100	5%	1/10W	
R404	1-216-809-11	METAL CHIP	100	5%	1/10W	
R409	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R411	1-216-851-11	METAL CHIP	330K	5%	1/10W	
R417	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R419	1-216-809-11	METAL CHIP	100	5%	1/10W	
R420	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R421	1-216-809-11	METAL CHIP	100	5%	1/10W	
R422	1-216-809-11	METAL CHIP	100	5%	1/10W	
R423	1-216-809-11	METAL CHIP	100	5%	1/10W	
R425	1-216-809-11	METAL CHIP	100	5%	1/10W	
R426	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R427	1-216-809-11	METAL CHIP	100	5%	1/10W	
R428	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R431	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R432	1-216-809-11	METAL CHIP	100	5%	1/10W	
R433	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R434	1-216-809-11	METAL CHIP	100	5%	1/10W	
R435	1-216-809-11	METAL CHIP	100	5%	1/10W	
R436	1-216-809-11	METAL CHIP	100	5%	1/10W	
R437	1-216-809-11	METAL CHIP	100	5%	1/10W	
R438	1-216-809-11	METAL CHIP	100	5%	1/10W	
R442	1-216-809-11	METAL CHIP	100	5%	1/10W	
R443	1-216-809-11	METAL CHIP	100	5%	1/10W	
R444	1-216-809-11	METAL CHIP	100	5%	1/10W	
R446	1-216-809-11	METAL CHIP	100	5%	1/10W	
R448	1-216-809-11	METAL CHIP	100	5%	1/10W	
R452	1-216-809-11	METAL CHIP	100	5%	1/10W	
R453	1-216-809-11	METAL CHIP	100	5%	1/10W	
R454	1-216-809-11	METAL CHIP	100	5%	1/10W	
R460	1-216-809-11	METAL CHIP	100	5%	1/10W	

Ref. No.	Part No.	Description				Remark
R461	1-216-809-11	METAL CHIP	100	5%	1/10W	
R465	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R466	1-216-809-11	METAL CHIP	100	5%	1/10W	
R467	1-216-809-11	METAL CHIP	100	5%	1/10W	
R468	1-216-809-11	METAL CHIP	100	5%	1/10W	
R469	1-216-809-11	METAL CHIP	100	5%	1/10W	
R470	1-216-809-11	METAL CHIP	100	5%	1/10W	
R473	1-216-809-11	METAL CHIP	100	5%	1/10W	
R474	1-216-809-11	METAL CHIP	100	5%	1/10W	(AEP)
R475	1-216-809-11	METAL CHIP	100	5%	1/10W	(AEP)
R483	1-216-809-11	METAL CHIP	100	5%	1/10W	
R488	1-216-809-11	METAL CHIP	100	5%	1/10W	
R490	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R491	1-216-821-11	METAL CHIP	1K	5%	1/10W	(GTX787)
R491	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	(GTX777)
R491	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	(GTX888)
R492	1-216-811-11	METAL CHIP	150	5%	1/10W	(AEP)
R492	1-216-815-11	METAL CHIP	330	5%	1/10W	(E3)
R492	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	(GTX888: AUS)
R492	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	(E2, E51,AR, MX)
R493	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R494	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R501	1-216-840-11	METAL CHIP	39K	5%	1/10W	
R502	1-216-809-11	METAL CHIP	100	5%	1/10W	
R503	1-216-809-11	METAL CHIP	100	5%	1/10W	
R504	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R506	1-216-809-11	METAL CHIP	100	5%	1/10W	
R507	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	
R508	1-216-815-11	METAL CHIP	330	5%	1/10W	
R509	1-216-817-11	METAL CHIP	470	5%	1/10W	
R510	1-216-820-11	METAL CHIP	820	5%	1/10W	
R511	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R512	1-216-836-11	METAL CHIP	18K	5%	1/10W	
R513	1-216-836-11	METAL CHIP	18K	5%	1/10W	
R514	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R515	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R518	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R519	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R520	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R521	1-216-836-11	METAL CHIP	18K	5%	1/10W	
R522	1-216-836-11	METAL CHIP	18K	5%	1/10W	
R523	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	
R524	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R525	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	
R526	1-216-824-11	METAL CHIP	1.8K	5%	1/10W	
R527	1-216-836-11	METAL CHIP	18K	5%	1/10W	
R528	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R529	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R530	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R531	1-216-803-11	METAL CHIP	33	5%	1/10W	
R533	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R534	1-216-811-11	METAL CHIP	150	5%	1/10W	
R535	1-216-821-11	METAL CHIP	1K	5%	1/10W	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R536	1-216-841-11	METAL CHIP	47K	5%	1/10W			METER DISPLAY BOARD			

R538	1-216-825-11	METAL CHIP	2.2K	5%	1/10W			< CAPACITOR >			
R539	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R540	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R541	1-216-837-11	METAL CHIP	22K	5%	1/10W	C001	1-126-947-11	ELECT	47uF	20%	35V
R542	1-216-837-11	METAL CHIP	22K	5%	1/10W	C002	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
								< CONNECTOR >			
R543	1-216-836-11	METAL CHIP	18K	5%	1/10W						
R544	1-216-838-11	METAL CHIP	27K	5%	1/10W						
R545	1-216-845-11	METAL CHIP	100K	5%	1/10W	CN001	1-568-854-11	CONNECTOR, FFC 11P			
R546	1-216-845-11	METAL CHIP	100K	5%	1/10W	CN003	1-506-469-11	PIN, CONNECTOR 4P			
R549	1-216-845-11	METAL CHIP	100K	5%	1/10W	CN004	1-564-704-41	PIN, CONNECTOR (SMALL TYPE) 2P			
								< IC >			
R582	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R583	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R584	1-216-811-11	METAL CHIP	150	5%	1/10W	IC001	6-711-976-01	IC LB1846M			
R585	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R586	1-216-841-11	METAL CHIP	47K	5%	1/10W			< RESISTOR >			
R588	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R005	1-216-833-11	METAL CHIP	10K	5%	1/10W
R589	1-216-845-11	METAL CHIP	100K	5%	1/10W	R006	1-216-833-11	METAL CHIP	10K	5%	1/10W
R590	1-216-821-11	METAL CHIP	1K	5%	1/10W	R007	1-216-833-11	METAL CHIP	10K	5%	1/10W
R591	1-216-295-91	SHORT CHIP	0			R008	1-216-833-11	METAL CHIP	10K	5%	1/10W
R599	1-216-845-11	METAL CHIP	100K	5%	1/10W			*****			
								METER DISPLAY LED BOARD			

R627	1-216-841-11	METAL CHIP	47K	5%	1/10W			< DIODE >			
R628	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R629	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R1006	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R1017	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R2000	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	D011	6-502-465-01	DI SELT2WA10C-2LF62			
					(GTX888)	D012	6-502-465-01	DI SELT2WA10C-2LF62			
R2001	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	D013	6-502-465-01	DI SELT2WA10C-2LF62			
					(GTX888)	D014	6-501-691-51	DI 1L434FV22D0TD801			
R2002	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W			<JUMPER RESISTOR>			
					(GTX888)						
R2003	1-216-845-11	METAL CHIP	100K	5%	1/10W	JR101	1-216-295-91	SHORT CHIP	0		
					(GTX888)	JR102	1-216-295-91	SHORT CHIP	0		
R2005	1-216-864-11	SHORT CHIP	0 (GTX888)			JR103	1-216-295-91	SHORT CHIP	0		
						JR104	1-216-295-91	SHORT CHIP	0		
R2006	1-216-833-11	METAL CHIP	10K	5%	1/10W			< RESISTOR >			
					(GTX888)						
R2007	1-216-832-11	METAL CHIP	8.2K	5%	1/10W						
					(GTX888)	R010	1-216-818-11	METAL CHIP	560	5%	1/10W
R2008	1-249-401-11	CARBON	47	5%	1/4W	R011	1-216-818-11	METAL CHIP	560	5%	1/10W
R2050	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	R012	1-216-818-11	METAL CHIP	560	5%	1/10W
					(GTX888)	R013	1-216-818-11	METAL CHIP	560	5%	1/10W
R2051	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	R014	1-216-818-11	METAL CHIP	560	5%	1/10W
					(GTX888)						
						R015	1-216-818-11	METAL CHIP	560	5%	1/10W
R2052	1-216-831-11	METAL CHIP	6.8K	5%	1/10W	R016	1-216-820-11	METAL CHIP	820	5%	1/10W
					(GTX888)	R017	1-216-820-11	METAL CHIP	820	5%	1/10W
R2053	1-216-845-11	METAL CHIP	100K	5%	1/10W			*****			
					(GTX888)						
R2055	1-216-864-11	SHORT CHIP	0 (GTX888)								
R2056	1-216-833-11	METAL CHIP	10K	5%	1/10W						
					(GTX888)						
R2057	1-216-832-11	METAL CHIP	8.2K	5%	1/10W						
					(GTX888)						
		< VIBRATOR >									
X401	1-814-067-11	OSCILLATOR, CRYSTAL (32.768KHz)									
X402	1-795-058-21	VIBRATOR, CERAMIC (5MHz)									

HCD-GTX777/GTX787/GTX888

METER DISPLAY MIC MOTOR PANEL FUNCTION

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R031	1-216-833-11	METER DISPLAY SW BOARD *****					R1170	1-216-821-11	METAL CHIP	1K	5%	1/10W	
		< RESISTOR >					R1173	1-216-833-11	METAL CHIP	10K	5%	1/10W	
		METAL CHIP	10K	5%	1/10W	R1175	1-216-821-11	METAL CHIP	1K	5%	1/10W		
		< SWITCH >					R1177	1-216-845-11	METAL CHIP	100K	5%	1/10W	
		< SWITCH >					R1180	1-216-821-11	METAL CHIP	1K	5%	1/10W	
S031	1-786-084-11	SWITCH, DETECTION					R1181	1-216-833-11	METAL CHIP	10K	5%	1/10W	

MIC BOARD *****													
< CAPACITOR >													
C1100	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V								
C1104	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V								
C1105	1-100-155-91	CERAMIC CHIP	470PH	5%	100V								
C1106	1-164-156-11	CERAMIC CHIP	0.1uF		25V		1-687-133-12	MOTOR (LD) BOARD *****					
C1110	1-162-960-11	CERAMIC CHIP	220PF	10%	50V		*****						
C1111	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V								
C1112	1-126-160-11	ELECT	1uF	20%	50V		1-687-134-12	MOTOR (TB) BOARD *****					
C1113	1-126-160-11	ELECT	1uF	20%	50V								
C1116	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V								
C1155	1-100-155-91	CERAMIC CHIP	470PF	5%	100V								
< CONNECTOR >													
C1157	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V		CN742	1-784-727-11	CONNECTOR, FFC 5P *****				
C1158	1-124-257-00	ELECT	2.2uF	20%	50V		*****						
C1160	1-162-923-11	CERAMIC CHIP	47PF	5%	50V								
C1161	1-162-927-11	CERAMIC CHIP	100PF	5%	50V								
C1162	1-124-257-00	ELECT	2.2uF	20%	50V								
< CAPACITOR >													
C1163	1-124-257-00	ELECT	2.2uF	20%	50V								
C1164	1-164-156-11	CERAMIC CHIP	0.1uF		25V		C900	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C1177	1-124-261-00	ELECT	10uF	20%	50V		C910	1-124-598-11	ELECT	47uF	20%	10V	
C1189	1-126-176-11	ELECT	220uF	20%	10V		C911	1-126-964-11	ELECT	10uF	20%	50V	
C1190	1-126-176-11	ELECT	220uF	20%	10V		C950	1-163-077-00	CERAMIC CHIP	0.1uF		50V	
C1192	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		C951	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C1193	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V		C952	1-107-882-91	ELECT	100uF	20%	16V	
< DIODE >													
D1101	6-500-848-01	DIODE	MC2840-T112-1				C953	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
D1102	6-500-848-01	DIODE	MC2840-T112-1				C954	1-131-992-91	CERAMIC CHIP	100000PF		35V	
D1104	6-500-848-01	DIODE	MC2840-T112-1				C956	1-162-953-11	CERAMIC CHIP	100PF	5%	50V	
< IC >													
IC1100	8-759-278-58	IC NJM4558V-TE2					C959	1-126-176-11	ELECT	220uF	20%	10V	
< JACK >													
J1100	1-817-630-11	JACK (LARGE TYPE) (MIC)					< CONNECTOR >						
J1101	1-794-702-11	JACK, HEADPHONE					CN954	1-784-747-11	CONNECTOR, FFC 25P				
J1102	1-815-041-11	JACK, PIN 2P (AUDIO INPUT)					CN962	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P				
< RESISTOR >													
R1100	1-216-821-11	METAL CHIP	1K	5%	1/10W		CN965	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE) 4P				
R1137	1-216-809-11	METAL CHIP	100	5%	1/10W		CN967	1-784-737-11	CONNECTOR, FFC 15P				
R1138	1-216-835-11	METAL CHIP	15K	5%	1/10W		CN970	1-785-328-11	PIN, CONNECTOR (LIGHT ANGREG) 2P				
R1140	1-216-832-11	METAL CHIP	8.2K	5%	1/10W		< DIODE >						
R1141	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		D905	6-502-468-01	DI 1L034FV22D0DAC09 (POWER (RED))				
R1142	1-216-849-11	METAL CHIP	220K	5%	1/10W		D906	8-719-060-27	DIODE SLR-325MCT31 (POWER (GREEN))				
R1143	1-216-841-11	METAL CHIP	47K	5%	1/10W		D908	6-500-641-01	DIODE SLI-325URC (CD) (AEP, MX)				
R1144	1-216-841-11	METAL CHIP	47K	5%	1/10W		D908	6-502-469-01	DI SLI-325URT31 (CD) (EXCEPT AEP, MX)				
R1145	1-216-845-11	METAL CHIP	100K	5%	1/10W		D909	6-502-469-01	DI SLI-325URT31 (TUNER/BAND)				
< VARIABLE RESISTOR >													
RV1150	1-227-452-11	RES, VAR, CARBON 50K (MIC LEVEL) *****											

< MOTOR (LD) BOARD >													

< MOTOR (TB) BOARD >													

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

< CAPACITOR >													
C900	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V								
C910	1-124-598-11	ELECT	47uF	20%	10V								
C911	1-126-964-11	ELECT	10uF	20%	50V								
C950	1-163-077-00	CERAMIC CHIP	0.1uF		50V								
C951	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V								
C952	1-107-882-91	ELECT	100uF	20%	16V								
C953	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V								
C954	1-131-992-91	CERAMIC CHIP	100000PF		35V								
C956	1-162-953-11	CERAMIC CHIP	100PF	5%	50V								
C959	1-126-176-11	ELECT	220uF	20%	10V								
< CONNECTOR >													
CN954	1-784-747-11	CONNECTOR, FFC 25P											
CN962	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P											
CN965	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE) 4P											
CN967	1-784-737-11	CONNECTOR, FFC 15P											
CN970	1-785-328-11	PIN, CONNECTOR (LIGHT ANGREG) 2P											
CN981	1-568-854-11	CONNECTOR, FFC 11P											
< DIODE >													
D905	6-502-468-01	DI 1L034FV22D0DAC09 (POWER (RED))											
D906	8-719-060-27	DIODE SLR-325MCT31 (POWER (GREEN))											
D908	6-500-641-01	DIODE SLI-325URC (CD) (AEP, MX)											
D908	6-502-469-01	DI SLI-325URT31 (CD) (EXCEPT AEP, MX)											
D909	6-502-469-01	DI SLI-325URT31 (TUNER/BAND)											
D910	6-502-469-01	DI SLI-325URT31 (TAPE)											
D911	6-502-469-01	DI SLI-325URT31 (AUDIO)											
D912	6-502-469-01	DI SLI-325URT31 (VIDEO)											
D913	6-502-469-01	DI SLI-325URT31 (USB)											
D914	6-502-468-01	DI 1L034FV22D0DAC09 (SURROUND)											

PANEL FUNCTION

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D915	6-502-469-01	DI SLI-325URT31 (GROOVE)		R988	1-216-821-11	METAL CHIP 1K 5%	1/10W
D918	8-719-032-28	DIODE MA8027-H-TX		R1070	1-216-833-11	METAL CHIP 10K 5%	1/10W
D940	6-501-730-01	DIODE MAZ8051GMLS0		R1071	1-216-833-11	METAL CHIP 10K 5%	1/10W
D941	8-719-032-28	DIODE MA8027-H-TX		R1072	1-216-833-11	METAL CHIP 10K 5%	1/10W
D942	8-719-032-28	DIODE MA8027-H-TX					
D943	8-719-032-28	DIODE MA8027-H-TX		R1073	1-216-833-11	METAL CHIP 10K 5%	1/10W
		< IC >		R1074	1-216-809-11	METAL CHIP 100 5%	1/10W
IC900	6-704-046-01	IC BU2099FV		R1075	1-216-809-11	METAL CHIP 100 5%	1/10W
IC902	6-704-046-01	IC BU2099FV		R1077	1-216-809-11	METAL CHIP 100 5%	1/10W
IC1101	6-600-349-31	IC NJL24H400A (IR)		R1078	1-216-809-11	METAL CHIP 100 5%	1/10W
		<JUMPER RESISTOR>					
JR1085	1-216-864-11	SHORT CHIP 0		R1079	1-216-809-11	METAL CHIP 100 5%	1/10W
		< FLUORESCENT INDICATOR TUBE >		R1080	1-216-809-11	METAL CHIP 100 5%	1/10W
ND900	1-519-998-11	VACUUM FLUORESCENT DISPLAY		R1081	1-216-809-11	METAL CHIP 100 5%	1/10W
		< TRANSISTOR >		R1082	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q209	8-729-037-13	TRANSISTOR KTA1271Y		R1083	1-216-809-11	METAL CHIP 100 5%	1/10W
Q900	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF					
Q901	8-729-036-86	TRANSISTOR KTC3203Y-AT		R1084	1-216-809-11	METAL CHIP 100 5%	1/10W
Q902	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF					
Q903	8-729-027-28	TRANSISTOR DTA123EKA-T146					
Q904	8-729-027-28	TRANSISTOR DTA123EKA-T146					
		< RESISTOR >					
R901	1-216-833-11	METAL CHIP 10K 5%	1/10W	S905	1-762-875-21	SWITCH, KEYBOARD (CD) (AEP)	
R902	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W	S905	1-771-410-21	SWITCH, TACTILE (CD) (EXCEPT AEP)	
R903	1-216-829-11	METAL CHIP 4.7K 5%	1/10W	S906	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND) (AEP)	
R904	1-216-827-11	METAL CHIP 3.3K 5%	1/10W	S906	1-771-410-21	SWITCH, TACTILE (TUNER/BAND) (EXCEPT AEP)	
R905	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	S907	1-762-875-21	SWITCH, KEYBOARD (TAPE) (AEP)	
R906	1-216-823-11	METAL CHIP 1.5K 5%	1/10W				
R907	1-216-817-11	METAL CHIP 470 5%	1/10W	S907	1-771-410-21	SWITCH, TACTILE (TAPE) (EXCEPT AEP)	
R908	1-216-819-11	METAL CHIP 680 5%	1/10W	S908	1-762-875-21	SWITCH, KEYBOARD (OPTIONS) (AEP)	
R909	1-216-821-11	METAL CHIP 1K 5%	1/10W	S908	1-771-410-21	SWITCH, TACTILE (OPTIONS) (EXCEPT AEP)	
R910	1-216-823-11	METAL CHIP 1.5K 5%	1/10W	S909	1-762-875-21	SWITCH, KEYBOARD (ERASE) (AEP)	
R911	1-216-823-11	METAL CHIP 1.5K 5%	1/10W	S909	1-771-410-21	SWITCH, TACTILE (ERASE) (EXCEPT AEP)	
R912	1-216-825-11	METAL CHIP 2.2K 5%	1/10W				
R913	1-216-817-11	METAL CHIP 470 5%	1/10W	S910	1-762-875-21	SWITCH, KEYBOARD (RETURN) (AEP)	
R914	1-216-823-11	METAL CHIP 1.5K 5%	1/10W	S910	1-771-410-21	SWITCH, TACTILE (RETURN) (EXCEPT AEP)	
R915	1-216-823-11	METAL CHIP 1.5K 5%	1/10W	S911	1-762-875-21	SWITCH, KEYBOARD (ENTER) (AEP)	
R919	1-216-819-11	METAL CHIP 680 5%	1/10W	S911	1-771-410-21	SWITCH, TACTILE (ENTER) (EXCEPT AEP)	
R921	1-216-819-11	METAL CHIP 680 5%	1/10W	S914	1-762-875-21	SWITCH, KEYBOARD (AUDIO) (AEP)	
R923	1-216-819-11	METAL CHIP 680 5%	1/10W				
R925	1-216-819-11	METAL CHIP 680 5%	1/10W	S914	1-771-410-21	SWITCH, TACTILE (AUDIO) (EXCEPT AEP)	
R927	1-216-819-11	METAL CHIP 680 5%	1/10W	S915	1-762-875-21	SWITCH, KEYBOARD (AEP)	
R929	1-216-819-11	METAL CHIP 680 5%	1/10W	S915	1-771-410-21	SWITCH, TACTILE (EXCEPT AEP)	
R931	1-216-819-11	METAL CHIP 680 5%	1/10W	S916	1-762-875-21	SWITCH, KEYBOARD (AEP)	
R933	1-216-819-11	METAL CHIP 680 5%	1/10W	S916	1-771-410-21	SWITCH, TACTILE (EXCEPT AEP)	
R935	1-216-821-11	METAL CHIP 1K 5%	1/10W				
R943	1-216-805-11	METAL CHIP 47 5%	1/10W	S917	1-762-875-21	SWITCH, KEYBOARD (REC TO TAPE) (AEP)	
R944	1-216-821-11	METAL CHIP 1K 5%	1/10W	S917	1-771-410-21	SWITCH, TACTILE (REC TO TAPE) (EXCEPT AEP)	
R945	1-216-817-11	METAL CHIP 470 5%	1/10W				
R949	1-216-835-11	METAL CHIP 15K 5%	1/10W	S918	1-762-875-21	SWITCH, KEYBOARD (REC TIMER) (AEP)	
R983	1-216-823-11	METAL CHIP 1.5K 5%	1/10W	S918	1-771-410-21	SWITCH, TACTILE (REC TIMER) (EXCEPT AEP)	
R985	1-216-001-00	RES-CHIP 10 5%	1/10W	S919	1-762-875-21	SWITCH, KEYBOARD (REC TO USB) (AEP)	
R986	1-216-001-00	RES-CHIP 10 5%	1/10W				
				S919	1-771-410-21	SWITCH, TACTILE (REC TO USB) (EXCEPT AEP)	
				S928	1-762-875-21	SWITCH, KEYBOARD (AEP)	
				S928	1-771-410-21	SWITCH, TACTILE (EXCEPT AEP)	
				S939	1-762-875-21	SWITCH, KEYBOARD (GROOVE) (AEP)	
				S939	1-771-410-21	SWITCH, TACTILE (GROVE) (EXCEPT AEP)	
				S940	1-762-875-21	SWITCH, KEYBOARD (SURROUND) (AEP)	
				S940	1-771-410-21	SWITCH, TACTILE (SURROUND) (EXCEPT AEP)	

HCD-GTX777/GTX787/GTX888

PANEL JOG POWER

Ref. No.	Part No.	Description	Remark			
PANEL JOG BOARD						

< CAPACITOR >						
C980	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C986	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
< RESISTOR >						
R1069	1-216-833-11	METAL CHIP	10K	5%	1/10W	
R1090	1-216-833-11	METAL CHIP	10K	5%	1/10W	
< SWITCH >						
S935	1-418-725-51	ENCODER, ROTARY (12 TYPE) (MASTER VOLUME)				
S936	1-478-133-11	ENCODER, ROTARY (OPERATION DIAL)				

	A-1471-013-A	POWER BOARD, COMPLETE (GTX888)				
	A-1471-080-A	POWER BOARD, COMPLETE (GTX777: E2, E3, E51, AR)				
	A-1471-087-A	POWER BOARD, COMPLETE (GTX777: AEP)				
	A-1471-108-A	POWER BOARD, COMPLETE (GTX787: E2)				
	A-1542-636-A	POWER BOARD, COMPLETE (GTX777: MX)				
	A-1544-302-A	POWER BOARD, COMPLETE (GTX888: MX)				

	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3				
< CAPACITOR >						
C600	1-126-963-11	ELECT	4.7uF	20%	50V	
C601	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C602	1-126-923-91	ELECT	220uF	20%	10V	
C604	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C605	1-104-658-91	ELECT	100uF	20%	10V	
C608	1-126-965-91	ELECT	22uF	20%	50V	
C609	1-128-582-11	ELECT	10uF	20%	100V	
C610	1-128-582-11	ELECT	10uF	20%	100V	
C611	1-126-961-11	ELECT	2.2uF	20%	50V	
C614	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C615	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C616	1-130-495-00	MYLAR	0.1uF	5%	50V	
C617	1-130-495-00	MYLAR	0.1uF	5%	50V	
C620	1-112-514-91	CERAMIC CHIP	1500PF	5%	50V	
C650	1-126-963-11	ELECT	4.7uF	20%	50V	
C651	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	
C652	1-126-923-91	ELECT	220uF	20%	10V	
C654	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C656	1-127-815-11	ELECT (BLOCK)	3300uF	20%	100V	
C657	1-137-195-11	FILM	0.56uF	5%	50V	
C658	1-112-032-11	ELECT (BLOCK)	4700uF	20%	63V (GTX787)	
C658	1-127-812-11	ELECT (BLOCK)	3300uF	20%	63V (GTX777/GTX888)	
C666	1-130-495-00	MYLAR	0.1uF	5%	50V	
C667	1-130-495-00	MYLAR	0.1uF	5%	50V	
C676	1-127-815-11	ELECT (BLOCK)	3300uF	20%	100V	
C678	1-112-032-11	ELECT (BLOCK)	4700uF	20%	63V (GTX787)	
C678	1-127-812-11	ELECT (BLOCK)	3300uF	20%	63V (GTX777/GTX888)	
C679	1-137-195-11	FILM	0.56uF	5%	50V	
C695	1-126-964-11	ELECT	10uF	20%	50V	

Ref. No.	Part No.	Description	Remark		
< CONNECTOR >					
CN601	1-785-315-11	PIN, CONNECTOR (STRAIGHT) 3P			
* CN610	1-774-876-21	CONNECTOR, BOARD TO BOARD 8P			
* CN611	1-774-876-21	CONNECTOR, BOARD TO BOARD 8P			
< DIODE >					
D600	6-501-817-01	DIODE MA2J1110GLSO			
D601	6-501-817-01	DIODE MA2J1110GLSO			
D602	6-501-817-01	DIODE MA2J1110GLSO			
D603	6-501-817-01	DIODE MA2J1110GLSO (GTX888)			
D604	6-501-817-01	DIODE MA2J1110GLSO			
D611	6-501-180-01	DIODE UDZW-TE17-18B (MX)			
D611	6-501-782-01	DIODE MAZ8180GMLSO (EXCEPT MX)			
D612	6-501-180-01	DIODE UDZW-TE17-18B (MX)			
D612	6-501-782-01	DIODE MAZ8180GMLSO (EXCEPT MX)			
D621	8-719-073-32	DIODE D25XB60			
D622	8-719-073-32	DIODE D25XB60			
D631	6-500-335-01	DIODE MC2838-T112-1			
D632	6-500-334-01	DIODE MC2836-T112-1			
< IC >					
IC601	6-600-642-01	IC STK412-150C (GTX888)			
IC602	6-600-641-01	IC STK412-170C (GTX777/GTX787)			
< JUMPER RESISTOR >					
JR600	1-216-864-11	SHORT CHIP 0			
< COIL >					
L680	1-420-872-52	COIL, AIR-CORE (GTX777/GTX787)			
L690	1-420-872-52	COIL, AIR-CORE (GTX777/GTX787)			
< TRANSISTOR >					
Q611	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q612	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q621	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF			
Q622	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q631	8-729-824-00	TRANSISTOR 2SA1207-AA			
Q632	8-729-041-68	TRANSISTOR 2SC3722K-E			
Q633	8-729-041-68	TRANSISTOR 2SC3722K-E			
Q644	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q647	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q666	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF (GTX888)			
Q671	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q672	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q681	8-729-041-68	TRANSISTOR 2SC3722K-E			
Q682	8-729-041-68	TRANSISTOR 2SC3722K-E			
< RESISTOR >					
R600	1-216-821-11	METAL CHIP 1K	5%	1/10W	
R601	1-216-842-11	METAL CHIP 56K	5%	1/10W	
R602	1-216-818-11	METAL CHIP 560	5%	1/10W	
R602	1-220-373-91	METAL CHIP 620	5%	1/10W	(GTX777/GTX787)
R603	1-216-842-11	METAL CHIP 56K	5%	1/10W	(GTX888)
R604	1-216-833-11	METAL CHIP 10K	5%	1/10W	
R605	1-216-833-11	METAL CHIP 10K	5%	1/10W	
R606	1-216-841-11	METAL CHIP 47K	5%	1/10W	
R607	1-216-825-11	METAL CHIP 2.2K	5%	1/10W	

POWER

SENSOR

SUB TRANS

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R609	1-216-843-11	METAL CHIP	68K	5%	1/10W	R692	1-216-841-11	METAL CHIP	47K	5%	1/10W
R611	1-216-839-11	METAL CHIP	33K	5%	1/10W	R695	1-216-845-11	METAL CHIP	100K	5%	1/10W
△ R612	1-245-605-51	FUSIBLE	100	5%	1/4W	R696	1-216-845-11	METAL CHIP	100K	5%	1/10W
△ R613	1-215-872-11	METAL OXIDE	3.3K	5%	1W	R706	1-216-845-11	METAL CHIP	100K	5%	1/10W (GTX888)
△ R614	1-215-872-11	METAL OXIDE	3.3K	5%	1W	R706	1-216-850-11	METAL CHIP	270K	5%	1/10W (GTX777/GTX787)
△ R615	1-245-605-51	FUSIBLE	100	5%	1/4W	R707	1-216-837-11	METAL CHIP	22K	5%	1/10W
△ R616	1-217-637-00	FUSIBLE	1	5%	1/4W	R708	1-216-841-11	METAL CHIP	47K	5%	1/10W
R617	1-216-845-11	METAL CHIP	100K	5%	1/10W	R709	1-216-821-11	METAL CHIP	1K	5%	1/10W
△ R618	1-234-798-11	ENCAPSULATED COMPONENT				R710	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R619	1-216-821-11	METAL CHIP	1K	5%	1/10W	R711	1-260-087-11	CARBON	100	5%	1/2W
R620	1-216-839-11	METAL CHIP	33K	5%	1/10W	R715	1-260-087-11	CARBON	100	5%	1/2W (GTX888)
R621	1-216-845-11	METAL CHIP	100K	5%	1/10W	* R719	1-801-418-21	THERMISTOR (1608)			
R622	1-245-711-31	CARBON	10	5%	1/2W	R720	1-216-806-11	METAL CHIP	56	5%	1/10W
R623	1-216-843-11	METAL CHIP	68K	5%	1/10W	R721	1-249-435-11	CARBON	33K	5%	1/4W
R624	1-216-837-11	METAL CHIP	22K	5%	1/10W	R722	1-249-435-11	CARBON	33K	5%	1/4W
R625	1-216-826-11	METAL CHIP	2.7K	5%	1/10W (GTX787)			< RELAY >			
R625	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GTX777)	RY646	1-755-500-11	RELAY			
R625	1-216-831-91	METAL CHIP	8.2K	5%	1/10W (GTX888)	RY665	1-755-500-11	RELAY (GTX888)			
R628	1-216-833-11	METAL CHIP	10K	5%	1/10W			< THERMISTOR >			
R629	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	TH630	1-807-796-11	THERMISTOR			
R630	1-216-845-11	METAL CHIP	100K	5%	1/10W			< TERMINAL >			
R631	1-216-845-11	METAL CHIP	100K	5%	1/10W	TM600	1-820-067-11	TERMINAL BOARD (SPEAKER)			
△ R632	1-216-456-00	METAL OXIDE	820	5%	2W			(FRONT SPEAKER)			
△ R633	1-216-456-00	METAL OXIDE	820	5%	2W	TM601	1-820-067-11	TERMINAL BOARD (SPEAKER)			
R634	1-216-811-11	METAL CHIP	150	5%	1/10W			(SURROUND SPEAKER) (GTX777/GTX888)			
R635	1-216-811-11	METAL CHIP	150	5%	1/10W			*****			
R640	1-245-711-31	CARBON	10	5%	1/2W (GTX777/GTX787)		1-687-132-12	SENSOR BOARD			
R644	1-216-821-11	METAL CHIP	1K	5%	1/10W			*****			
R645	1-216-833-11	METAL CHIP	10K	5%	1/10W			< IC >			
R647	1-216-817-11	METAL CHIP	470	5%	1/10W	IC731	6-600-564-01	IC RPI-579N1			
R650	1-216-821-11	METAL CHIP	1K	5%	1/10W			< CONNECTOR >			
R651	1-216-842-11	METAL CHIP	56K	5%	1/10W						
R652	1-216-818-11	METAL CHIP	560	5%	1/10W (GTX777/GTX787)	CN731	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE) 3P			
R652	1-220-373-91	METAL CHIP	620	5%	1/10W (GTX888)			*****			
R653	1-216-842-11	METAL CHIP	56K	5%	1/10W			SUB TRANS BOARD			
R654	1-216-841-11	METAL CHIP	47K	5%	1/10W			*****			
R655	1-216-841-11	METAL CHIP	47K	5%	1/10W			< CAPACITOR >			
R657	1-216-849-11	METAL CHIP	220K	5%	1/10W	C1210	1-126-942-61	ELECT	1000uF	20%	25V
R658	1-216-849-11	METAL CHIP	220K	5%	1/10W	C1211	1-126-962-11	ELECT	3.3uF	20%	50V
R662	1-216-811-11	METAL CHIP	150	5%	1/10W	C1212	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R663	1-216-811-11	METAL CHIP	150	5%	1/10W			< CONNECTOR >			
R666	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GTX888)	CN1200	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
R667	1-216-833-11	METAL CHIP	10K	5%	1/10W (GTX888)	CN1202	1-568-106-11	PIN, CONNECTOR (3.96mm PITCH) 4P			
△ R668	1-234-798-11	ENCAPSULATED COMPONENT						(EXCEPT GTX777: AEP, MX/GTX888: MX, AR, AUS)			
R669	1-216-821-11	METAL CHIP	1K	5%	1/10W	CN1203	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
R670	1-216-839-11	METAL CHIP	33K	5%	1/10W			(GTX777: AEP, MX/GTX888: MX, AR AUS)			
R671	1-216-845-11	METAL CHIP	100K	5%	1/10W			< DIODE >			
R672	1-245-711-31	CARBON	10	5%	1/2W	D1200	6-501-817-01	DIODE	MA2J1110GLS0		
R673	1-216-842-11	METAL CHIP	56K	5%	1/10W	D1201	6-501-579-01	DIODE	MC2837		
R674	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R677	1-216-849-11	METAL CHIP	220K	5%	1/10W						
R678	1-216-849-11	METAL CHIP	220K	5%	1/10W						
R690	1-245-711-31	CARBON	10	5%	1/2W (GTX777/GTX787)						

HCD-GTX777/GTX787/GTX888

SUB TRANS SUB WOOFER

Ref. No.	Part No.	Description	Remark			
D1202	6-501-579-01	DIODE MC2837				
D1210	6-500-335-01	DIODE MC2838-T112-1				
< TRANSFORMER >						
△ PT1200	1-443-927-21	TRANSFORMER, POWER (MX)				
△ PT1200	1-443-928-21	TRANSFORMER, POWER (E2, E3, E51, AR, AUS)				
△ PT1200	1-443-929-21	TRANSFORMER, POWER (AEP)				
< TRANSISTOR >						
Q1211	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF				
< RESISTOR >						
R1213	1-216-829-11	METAL CHIP 4.7K	5%	1/10W		
R1215	1-216-833-11	METAL CHIP 10K	5%	1/10W		
R1216	1-216-864-11	SHORT CHIP 0				
R1217	1-216-864-11	SHORT CHIP 0				
R1220	1-216-837-11	METAL CHIP 22K	5%	1/10W		
R1221	1-216-845-11	METAL CHIP 100K	5%	1/10W		
< RELAY >						
△ RY1200	1-755-276-11	RELAY, POWER				
< SWITCH >						
△ S1200	1-786-055-21	SELECTOR, VOLTAGE (VOLTAGE SELECTOR)	(E2)			

SUB WOOFER BOARD (GTX888)						

< CAPACITOR >						
C9	1-115-416-11	CERAMIC CHIP 0.001uF	5%	25V (GTX888)		
C800	1-126-963-11	ELECT 4.7uF	20%	50V		
C801	1-165-818-91	CERAMIC CHIP 0.68uF	10%	25V		
C802	1-126-947-11	ELECT 47uF	20%	35V		
C803	1-162-927-11	CERAMIC CHIP 100PF	5%	50V		
C804	1-164-156-11	CERAMIC CHIP 0.1uF		25V		
C825	1-128-576-11	ELECT 100uF	20%	63V		
C826	1-128-576-11	ELECT 100uF	20%	63V		
C833	1-162-966-11	CERAMIC CHIP 0.002uF	10%	50V		
C838	1-136-497-81	FILM 0.1uF	5%	50V		
C839	1-136-497-81	FILM 0.1uF	5%	50V		
C850	1-126-963-11	ELECT 4.7uF	20%	50V		
C851	1-165-818-91	CERAMIC CHIP 0.68uF	10%	25V		
C852	1-126-947-11	ELECT 47uF	20%	35V		
C853	1-162-927-11	CERAMIC CHIP 100PF	5%	50V		
C883	1-162-966-11	CERAMIC CHIP 0.0022uF	10%	50V		
C888	1-136-497-81	FILM 0.1uF	5%	50V		
C889	1-136-497-81	FILM 0.1uF	5%	50V		
< CONNECTOR >						
* CN809	1-564-512-11	PLUG, CONNECTOR 9P				
* CN810	1-564-511-11	PLUG, CONNECTOR 8P				
CN811	1-564-506-11	PLUG, CONNECTOR 3P				
< DIODE >						
D800	6-500-335-01	DIODE MC2838-T112-1				
D811	6-501-817-01	DIODE MA2J1110GLS0				
D812	6-501-817-01	DIODE MA2J1110GLS0				

Ref. No.	Part No.	Description	Remark			
< IC >						
IC800	6-710-842-01	IC STK433-130-E				
< TRANSISTOR >						
Q800	8-729-924-99	TRANSISTOR	2SC3722K-E			
Q814	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF			
Q815	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	(EXCEPT MX)		
Q850	8-729-924-99	TRANSISTOR	2SC3722K-E			
< RESISTOR >						
R800	1-216-818-11	METAL CHIP	560	5%	1/10W	
R801	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R802	1-216-821-11	METAL CHIP	1K	5%	1/10W	
△ R804	1-217-637-00	FUSIBLE	1	5%	1/4W	
△ R805	1-217-637-00	FUSIBLE	1	5%	1/4W	
R808	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R814	1-216-830-11	METAL CHIP	5.6K	5%	1/10W	
△ R827	1-245-605-51	FUSIBLE	100	5%	1/4W	
△ R828	1-245-605-51	FUSIBLE	100	5%	1/4W	
△ R838	1-220-893-11	METAL	0.22	10%	5W	
R839	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R840	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R841	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R842	1-245-711-31	CARBON	10	5%	1/2W	
R850	1-216-818-11	METAL CHIP	560	5%	1/10W	
R851	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R852	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R858	1-216-843-11	METAL CHIP	68K	5%	1/10W	
R860	1-216-842-11	METAL CHIP	56K	5%	1/10W	
R861	1-216-841-11	METAL CHIP	47K	5%	1/10W	
R863	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R864	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R865	1-216-817-11	METAL CHIP	470	5%	1/10W	
R866	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R867	1-260-087-11	CARBON	100	5%	1/2W	
△ R888	1-220-893-11	METAL	0.22	10%	5W	
R889	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R890	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R891	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R892	1-245-711-31	CARBON	10	5%	1/2W	
< RELAY >						
RY862	1-755-500-11	RELAY				
< TERMINAL >						
TB001	1-820-067-11	TERMINAL BOARD (SPEAKER) (SUBWOOFER OUT)				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	1-687-669-12	SW BOARD *****				< DIODE >	
		< SWITCH >		D301	6-501-722-01	DIODE MAZ8043GMLS0	
S751	1-786-514-11	SWITCH, LEVER (SLIDE) (OPEN/CLOSE DETECT)		D401	6-500-335-01	DIODE MC2838-T112-1	
*****						< IC >	
		TC BOARD *****		IC301	8-759-100-96	IC NJM4558M-TE2	
		< CAPACITOR >		IC401	8-759-100-96	IC NJM4558M-TE2	
						< JUMPER RESISTOR >	
C303	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V		JR315	1-216-864-11	SHORT CHIP 0	
C304	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V		JR316	1-216-864-11	SHORT CHIP 0	
C313	1-162-962-11	CERAMIC CHIP 470PF 10% 50V				< TRANSISTOR >	
C314	1-162-962-11	CERAMIC CHIP 470PF 10% 50V		Q113	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
C315	1-162-923-11	CERAMIC CHIP 47PF 5% 50V		Q401	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
				Q402	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
C316	1-162-923-11	CERAMIC CHIP 47PF 5% 50V		Q403	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
C317	1-126-965-91	ELECT 22uF 20% 50V		Q404	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
C318	1-126-965-91	ELECT 22uF 20% 50V					
C323	1-162-969-11	CERAMIC CHIP 0.0068uF 10% 25V		Q405	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
C324	1-162-969-11	CERAMIC CHIP 0.0068uF 10% 25V		Q406	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
				Q407	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
C327	1-162-960-11	CERAMIC CHIP 220PF 10% 50V		Q408	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
C328	1-162-960-11	CERAMIC CHIP 220PF 10% 50V		Q409	8-729-038-23	TRANSISTOR RT1N141C-TP-1	
C329	1-131-690-31	FILM 0.068uF 5% 50V					
C330	1-131-690-31	FILM 0.068uF 5% 50V		Q410	6-551-276-01	TRANSISTOR RT1N431C-TP-1	
C350	1-126-934-11	ELECT 220uF 20% 16V		Q411	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
				Q453	8-729-036-86	TRANSISTOR KTC3203Y-AT	
C351	1-126-923-91	ELECT 220uF 20% 10V		Q454	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
C352	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		Q455	8-729-037-13	TRANSISTOR KTA1271Y-AT	
C353	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V					
C354	1-164-156-11	CERAMIC CHIP 0.1uF 25V		Q456	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
C355	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V				< RESISTOR >	
				R303	1-216-841-11	METAL CHIP 47K 5% 1/10W	
C356	1-126-964-11	ELECT 10uF 20% 50V		R304	1-216-841-11	METAL CHIP 47K 5% 1/10W	
C401	1-126-956-91	ELECT 0.1uF 20% 50V		R307	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
C402	1-126-956-91	ELECT 0.1uF 20% 50V		R308	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
C403	1-162-923-11	CERAMIC CHIP 47PF 5% 50V		R309	1-216-817-11	METAL CHIP 470 5% 1/10W	
C404	1-162-923-11	CERAMIC CHIP 47PF 5% 50V					
				R310	1-216-817-11	METAL CHIP 470 5% 1/10W	
C405	1-162-924-11	CERAMIC CHIP 56PF 5% 50V		R311	1-216-813-11	METAL CHIP 220 5% 1/10W	
C406	1-162-924-11	CERAMIC CHIP 56PF 5% 50V		R312	1-216-813-11	METAL CHIP 220 5% 1/10W	
C409	1-126-964-11	ELECT 10uF 20% 50V		R313	1-216-805-11	METAL CHIP 47 5% 1/10W	
C410	1-126-964-11	ELECT 10uF 20% 50V		R314	1-216-805-11	METAL CHIP 47 5% 1/10W	
C411	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V					
				R315	1-216-809-11	METAL CHIP 100 5% 1/10W	
C412	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V		R316	1-216-809-11	METAL CHIP 100 5% 1/10W	
C413	1-164-739-11	CERAMIC CHIP 560PF 5% 50V		R317	1-216-853-11	METAL CHIP 470K 5% 1/10W	
C414	1-164-739-11	CERAMIC CHIP 560PF 5% 50V		R318	1-216-853-11	METAL CHIP 470K 5% 1/10W	
C416	1-162-968-11	CERAMIC CHIP 0.0047uF 10% 50V		R319	1-218-867-11	METAL CHIP 6.8K 5% 1/10W	
C417	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V					
				R320	1-218-867-11	METAL CHIP 6.8K 5% 1/10W	
C418	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V		R323	1-216-833-11	METAL CHIP 10K 5% 1/10W	
C430	1-164-156-11	CERAMIC CHIP 0.1uF 25V		R324	1-216-833-11	METAL CHIP 10K 5% 1/10W	
C433	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V		R325	1-216-809-11	METAL CHIP 100 5% 1/10W	
C452	1-126-947-11	ELECT 47uF 20% 16V		R326	1-216-809-11	METAL CHIP 100 5% 1/10W	
C453	1-130-471-00	MYLAR 0.001uF 5% 50V					
				R349	1-216-809-11	METAL CHIP 100 5% 1/10W	
C454	1-130-481-00	MYLAR 0.0068uF 5% 50V		R350	1-216-864-11	SHORT CHIP 0	
C456	1-130-483-00	MYLAR 0.01uF 5% 50V		R351	1-216-821-11	METAL CHIP 1K 5% 1/10W	
C461	1-164-315-11	CERAMIC CHIP 470PF 5% 50V		R400	1-216-845-11	METAL CHIP 100K 5% 1/10W	
C462	1-164-315-11	CERAMIC CHIP 470PF 5% 50V		R401	1-216-841-11	METAL CHIP 47K 5% 1/10W	
C466	1-162-968-11	CERAMIC CHIP 0.0047uF 10% 50V					
		< CONNECTOR >		R402	1-216-841-11	METAL CHIP 47K 5% 1/10W	
* CN400	1-564-724-11	PIN, CONNECTOR (SMALL TYPE) 8P		R403	1-216-841-11	METAL CHIP 47K 5% 1/10W	
CN410	1-568-830-11	CONNECTOR, FFC 11P					

HCD-GTX777/GTX787/GTX888

Ver. 1.1

TC	TRANS	USB R
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Ref. No.	Part No.	Description	Remark		
R404	1-216-841-11	METAL CHIP	47K	5%	1/10W
R405	1-216-841-11	METAL CHIP	47K	5%	1/10W
R406	1-216-841-11	METAL CHIP	47K	5%	1/10W
R407	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R408	1-216-867-11	METAL CHIP	6.8K	5%	1/10W
R409	1-216-845-11	METAL CHIP	100K	5%	1/10W
R411	1-216-854-11	METAL CHIP	560K	5%	1/10W
R412	1-216-854-11	METAL CHIP	560K	5%	1/10W
R413	1-216-853-11	METAL CHIP	470K	5%	1/10W
R414	1-216-853-11	METAL CHIP	470K	5%	1/10W
R423	1-216-845-11	METAL CHIP	100K	5%	1/10W
R424	1-216-845-11	METAL CHIP	100K	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
R439	1-216-864-11	SHORT CHIP	0		
R440	1-216-833-11	METAL CHIP	10K	5%	1/10W
R442	1-216-841-11	METAL CHIP	47K	5%	1/10W
R443	1-216-845-11	METAL CHIP	100K	5%	1/10W
R444	1-216-833-11	METAL CHIP	10K	5%	1/10W
R449	1-216-801-11	METAL CHIP	22	5%	1/10W
R450	1-216-801-11	METAL CHIP	22	5%	1/10W
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	1-216-801-11	METAL CHIP	22	5%	1/10W
R457	1-216-837-11	METAL CHIP	22K	5%	1/10W
R458	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R459	1-216-864-11	SHORT CHIP	0		
R461	1-216-864-11	SHORT CHIP	0		
R462	1-216-864-11	SHORT CHIP	0		
R463	1-216-833-11	METAL CHIP	10K	5%	1/10W
R464	1-216-833-11	METAL CHIP	10K	5%	1/10W
R481	1-216-833-11	METAL CHIP	10K	5%	1/10W
R482	1-216-841-11	METAL CHIP	47K	5%	1/10W
R483	1-216-841-11	METAL CHIP	47K	5%	1/10W
R484	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R487	1-216-864-11	SHORT CHIP	0		
< TRANSFORMER >					
T001	1-443-760-11	TRANSFORMER, BIAS OSCILLATION			

Ref. No.	Part No.	Description	Remark		
TRANS BOARD					

< CAPACITOR >					
C1291	1-126-964-11	ELECT	10uF	20%	50V
C1292	1-128-576-11	ELECT	100uF	20%	63V
C1293	1-126-952-11	ELECT	1000uF	20%	35V
C1294	1-126-943-11	ELECT	2200uF	20%	25V
C1295	1-126-943-11	ELECT	2200uF	20%	25V
< CONNECTOR >					
CN1294	1-564-520-11	PLUG, CONNECTOR 5P			
CN1296	1-564-521-11	PLUG, CONNECTOR 6P			
< DIODE >					
D1291	6-501-796-01	DIODE MAZ8330GMLSO			
D1292	6-500-522-21	DIODE 10EDB40-TB3			
D1294	6-500-522-21	DIODE 10EDB40-TB3			
D1295	6-500-522-21	DIODE 10EDB40-TB3			
D1296	6-500-848-01	DIODE MC2840-T112-1			
< FUSE HOLDER >					
FH1240	1-533-217-41	HOLDER, FUSE			
FH1242	1-533-217-41	HOLDER, FUSE			
FH1250	1-533-217-41	HOLDER, FUSE			
FH1252	1-533-217-41	HOLDER, FUSE			
FH1260	1-533-217-41	HOLDER, FUSE			
FH1262	1-533-217-41	HOLDER, FUSE			
FH1270	1-533-217-41	HOLDER, FUSE			
FH1272	1-533-217-41	HOLDER, FUSE			
FH1280	1-533-217-41	HOLDER, FUSE			
FH1282	1-533-217-41	HOLDER, FUSE			
FH1283	1-533-217-41	HOLDER, FUSE (GTX777:MX)			
FH1284	1-533-217-41	HOLDER, FUSE (GTX777:MX)			
< TRANSISTOR >					
Q1291	8-729-032-94	TRANSISTOR	2SD1859TV2Q		
< RESISTOR >					
△ R1292	1-219-124-11	FUSIBLE	0.68	5%	1/4W
R1293	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1294	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R1295	1-216-832-11	METAL CHIP	8.2K	5%	1/10W

A-1234-821-A		USB R BOARD, COMPLETE (MX)			
A-1512-478-A		USB R BOARD, COMPLETE (EXCEPT MX)			

< CAPACITOR >					
C901	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C902	1-124-779-00	ELECT CHIP	10uF	20%	16V
C903	1-124-779-00	ELECT CHIP	10uF	20%	16V
C904	1-124-779-00	ELECT CHIP	10uF	20%	16V
C905	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C906	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C907	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C908	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C909	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C910	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C912	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V

USB R

USB CONNECTOR

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C913	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R934	1-216-833-11	METAL CHIP 10K 5% 1/10W	
C914	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R937	1-216-809-11	METAL CHIP 100 5% 1/10W	
C915	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R938	1-216-809-11	METAL CHIP 100 5% 1/10W	
C916	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V					
C917	1-100-354-21	ELECT CHIP 220uF 20% 6.3V		R941	1-216-845-11	METAL CHIP 100K 5% 1/10W	
C919	1-164-360-11	CERAMIC CHIP 0.1uF 16V		R942	1-216-845-11	METAL CHIP 100K 5% 1/10W	
C920	1-164-360-11	CERAMIC CHIP 0.1uF 16V		R943	1-216-845-11	METAL CHIP 100K 5% 1/10W	
C921	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R944	1-216-845-11	METAL CHIP 100K 5% 1/10W	
C922	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		R945	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
C930	1-216-864-11	SHORT CHIP 0		R947	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
		< CONNECTOR >		R949	1-216-829-91	RES, CHIP 4.7K 5% 1/10W	
CN901	1-770-160-21	PIN, CONNECTOR (PC BOARD) 2P		R970	1-216-809-11	METAL CHIP 100 5% 1/10W	
CN903	1-779-993-11	PIN, CONNECTOR (PWB) 5P		R971	1-216-809-11	METAL CHIP 100 5% 1/10W	
CN907	1-784-833-51	CONNECTOR, FFC (LIF (NON-ZIF)) 21P		R972	1-216-809-11	METAL CHIP 100 5% 1/10W	
		< DIODE >		R973	1-216-809-11	METAL CHIP 100 5% 1/10W	
D901	6-501-579-01	DIODE MC2837		R974	1-216-809-11	METAL CHIP 100 5% 1/10W	
D902	6-501-579-01	DIODE MC2837		R975	1-216-809-11	METAL CHIP 100 5% 1/10W	
D903	6-501-743-01	DIODE MAZ8068GMLS0		R976	1-216-809-11	METAL CHIP 100 5% 1/10W	
D904	6-501-743-01	DIODE MAZ8068GMLS0		R977	1-216-809-11	METAL CHIP 100 5% 1/10W	
		< FERRITE BEAD >		R978	1-216-809-11	METAL CHIP 100 5% 1/10W	
FB901	1-414-233-22	INDUCTOR, FERRITE BEAD (EXCEPT MX)		R979	1-216-809-11	METAL CHIP 100 5% 1/10W	
FB901	1-469-152-11	FERRITE, EMI (SMD) (2012) (MX)		R981	1-216-809-11	METAL CHIP 100 5% 1/10W	
FB902	1-414-233-22	INDUCTOR, FERRITE BEAD (EXCEPT MX)		R982	1-216-809-11	METAL CHIP 100 5% 1/10W	
FB902	1-469-152-11	FERRITE, EMI (SMD) (2012) (MX)		R983	1-216-809-11	METAL CHIP 100 5% 1/10W	
		< IC >		R984	1-216-809-11	METAL CHIP 100 5% 1/10W	
IC901	6-807-884-01	IC TMP92CD28AFG-6UJE (MX)		R985	1-216-809-11	METAL CHIP 100 5% 1/10W	
IC901	6-808-190-01	IC TMP92CD28AFG-7AC9 (EXCEPT MX)		R986	1-216-809-11	METAL CHIP 100 5% 1/10W	
IC915	6-710-887-01	IC R5523N001B-TR-F				< COMPOSITION CIRCUIT BLOCK >	
IC921	6-704-832-01	IC IS61LV6416-10TLT		RB921	1-234-944-21	RES, NETWORK 47 (1005X4)	
		< JUMPER RESISTOR >		RB922	1-234-944-21	RES, NETWORK 47 (1005X4)	
JR902	1-216-295-91	SHORT CHIP 0		RB923	1-234-944-21	RES, NETWORK 47 (1005X4)	
		< RESISTOR >		RB924	1-234-944-21	RES, NETWORK 47 (1005X4)	
R901	1-216-833-11	METAL CHIP 10K 5% 1/10W				< VIBRATOR >	
R902	1-216-829-11	METAL CHIP 4.7K 5% 1/10W		X901	1-813-931-21	VIBRATOR, CRYSTAL (9MHz)	
R903	1-216-829-11	METAL CHIP 4.7K 5% 1/10W				*****	
R904	1-216-829-11	METAL CHIP 4.7K 5% 1/10W				USB CONNECTOR BOARD	
R905	1-216-829-11	METAL CHIP 4.7K 5% 1/10W				*****	
R906	1-216-829-11	METAL CHIP 4.7K 5% 1/10W				< CAPACITOR >	
R907	1-216-829-11	METAL CHIP 4.7K 5% 1/10W		C942	1-115-339-11	CERAMIC CHIP 0.1uF 10% 50V	
R913	1-216-845-11	METAL CHIP 100K 5% 1/10W		C943	1-126-898-91	ELECT 220uF 20% 10V	
R915	1-216-833-11	METAL CHIP 10K 5% 1/10W		C944	1-164-360-11	CERAMIC CHIP 0.1uF 16V	
R916	1-216-864-11	SHORT CHIP 0				< CONNECTOR >	
R917	1-216-864-11	SHORT CHIP 0		CN952	1-819-866-11	CONNECTOR, USB (A) (USB)	
R919	1-216-809-11	METAL CHIP 100 5% 1/10W				< DIODE >	
R920	1-216-833-11	METAL CHIP 10K 5% 1/10W		D956	6-500-848-01	DIODE MC2840-T112-1	
R921	1-216-845-11	METAL CHIP 100K 5% 1/10W		D957	6-500-848-01	DIODE MC2840-T112-1	
R922	1-216-845-11	METAL CHIP 100K 5% 1/10W		D958	6-501-170-01	DIODE UDZW-TE17-6.8B	
R923	1-216-802-11	METAL CHIP 27 5% 1/10W		D960	6-500-848-01	DIODE MC2840-T112-1	
R924	1-216-802-11	METAL CHIP 27 5% 1/10W		D1000	6-502-517-01	DI 1L434FB12E0MDTZ1	
R925	1-216-835-11	METAL CHIP 15K 5% 1/10W		D1003	6-501-691-01	DIODE 1L434FV22D0TDF01	
R926	1-216-835-11	METAL CHIP 15K 5% 1/10W				< JUMPER RESISTOR >	
R928	1-216-864-11	SHORT CHIP 0		JR1020	1-216-296-11	SHORT CHIP 0	
R932	1-216-809-11	METAL CHIP 100 5% 1/10W					
R933	1-216-864-11	SHORT CHIP 0					

HCD-GTX777/GTX787/GTX888

Ver. 1.1

USB CONNECTOR

Ref. No.	Part No.	Description	Remark
< RESISTOR >			
R1054	1-216-819-11	METAL CHIP 680 5%	1/10W
R1056	1-216-819-11	METAL CHIP 680 5%	1/10W
R1057	1-216-864-11	SHORT CHIP 0	
R1058	1-216-864-11	SHORT CHIP 0	

MISCELLANEOUS			

7	1-828-953-11	WIRE (FLAT TYPE) (9 CORE) (EXCEPT AEP)	
7	1-828-962-11	WIRE (FLAT TYPE) (11 CORE) (AEP)	
51	1-921-201-91	WIRE (FLAT TYPE) (11 CORE)	
53	1-840-020-11	MECHA DECK	
102	1-921-186-51	WIRE (FLAT TYPE) (15 CORE)	
△ 201	1-785-504-11	ADAPTOR, CONVERSION (E2, E3, E51)	
△ 202	1-777-071-83	CORD, POWER (AEP, E2, E3, E51)	
△ 202	1-829-259-11	CORD, POWER (AUS)	
△ 202	1-829-387-11	CORD, POWER (AR)	
203	3-703-244-00	CORD BUSH (2104)	
204	1-457-369-11	CORE, FERRITE	
252	1-828-938-11	WIRE (FLAT TYPE) (5 CORE) (EXCEPT MX)	
252	1-832-798-21	CABLE, FLEXIBLE FLAT (5 CORE) (MX)	
301	1-471-035-21	MAGNET ASSY (MX)	
301	1-471-035-11	MAGNET ASSY(EXCEPT MX)	
327	1-834-268-11	WIRE (FLAT TYPE) (16 CORE)(EXCEPT MX)	
327	1-834-268-21	WIRE (FLAT TYPE) (16 CORE) (MX)	
330	A-4735-357-A	BASE ASSY, OP	
△ F1241	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)	
△ F1251	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)	
△ F1261	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)	
△ F1271	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)	
△ F1281	1-532-504-33	FUSE (T4AL/250V)	
△ F1282	1-532-388-33	FUSE (T2AL/250V) (GTX777:MX)	
M741	A-1108-965-A	MOTOR ASSY, (TABLE)	
M751	A-1108-966-A	MOTOR ASSY, (LOADING) (MX)	
M751	A-4737-553-A	MOTOR ASSY, LOADING(EXCEPT MX)	
M891	1-763-372-11	FAN, DC	
M892	1-763-372-11	FAN, DC	
M893	1-763-372-11	FAN, DC (GTX888)	
RE701	1-477-680-12	ENCODER, ROTARY (DISC TRAY ADDRESS DETECT)	
S201	1-771-853-11	SWITCH, DETECTION (LIMIT)	
TU901	1-693-759-11	TUNER (FM/AM) (AEP)	
TU901	1-693-764-21	TUNER (FM/AM) (EXCEPT AEP)	
△ PT1201	1-445-183-11	POWER TRANSFORMER (GTX777: EXCEPT AEP/GTX787: E2)	
△ PT1201	1-445-185-11	POWER TRANSFORMER (GTX888: EXCEPT MX)	
△ PT1201	1-445-281-11	POWER TRANSFORMER (GTX888: MX)	
△ PT1201	1-445-443-11	POWER TRANSFORMER (GTX777: AEP)	

MEMO

REVISION HISTORY

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