HCD-GT111/GT222/ GT444/GT555

SERVICE MANUAL

Ver. 1.0 2008.04

AEP Model
HCD-GT111/GT222/GT444
UK Model
HCD-GT444
E Model
Russian Model
HCD-GT111/GT222/GT444/GT555

- HCD-GT111 is the amplifier, USB, CD player, tape deck and tuner section in MHC-GT111.
- HCD-GT222 is the amplifier, USB, CD player, tape deck and tuner section in MHC-GT222.
- HCD-GT444 is the amplifier, USB, CD player, tape deck and tuner section in MHC-GT444.
- HCD-GT555 is the amplifier, USB, CD player, tape deck and tuner section in MHC-GT555.

Photo: HCD-GT555

CD Section	Model Name Using Similar Mechanism	NEW
	Mechanism Type	CDM88A-K6BD93-WOD
	Optical Pick-up Block Name	KSM-213DCP
Tape deck Section	Model Name Using Similar Mechanism	HCD-EC55/EC77
	Tape Transport Mechanism Type	TCM-J1 or CS-21SC-900TP

SPECIFICATIONS

Amplifier section

HCD-GT555

The following are measured at AC 120, 127, 220, 230 – 240 V 50/60 Hz

Front speaker
- Power output (rated): 110 W + 110 W (at 6 Ω, 1 kHz, 1% THD)
- RMS output power (reference): 200W + 200 W (per channel at 6 Ω, 1 kHz, 10% THD)

Subwoofer
- RMS output power (reference): 190 W (at 6 Ω, 100 Hz, 10% THD)

HCD-GT444

The following are measured at AC 120, 127, 220, 230 – 240 V 50/60 Hz

Front speaker
- Power output (rated): 90 W + 90 W (at 6 Ω, 1 kHz, 1% THD)
- RMS output power (reference): 150 W + 150 W (per channel at 6 Ω, 1 kHz, 10% THD)

Subwoofer
- RMS output power (reference): 150 W (at 6 Ω, 100 Hz, 10% THD)

HCD-GT222

The following are measured at AC 120, 127, 220, 230 – 240V 50/60 Hz
- Power output (rated): 110 W + 110 W (at 6 Ω, 1 kHz, 1% THD)
- RMS output power (reference): 200 W + 200 W (per channel at 6 Ω, 1 kHz, 10% THD)

HCD-GT111

The following are measured at AC 120, 127, 220, 230 – 240V 50/60 Hz
- Power output (rated): 60 W + 60 W (at 6 Ω, 1 kHz, 1% THD)
- RMS output power (reference): 100 W + 100 W (per channel at 6 Ω, 1 kHz, 10% THD)

Inputs

AUDIO INPUT L/R : voltage 250 mV, impedance 47 kilohms
MIC: sensitivity 1 mV, impedance 10 kilohms
(USB) port: Type A

Outputs

PHONES: accepts headphones of 8 Ω or more
FRONT SPEAKER: accepts impedance of 6 Ω
SUBWOOFER (HCD-GT555/ HCD-GT444 only): accepts impedance of 6 Ω

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

CD player section

System: Compact disc and digital audio system

Laser Diode Properties
- Emission Duration: Continuous
- Laser Output*: Less than 44.6 μW
- * This output is the value measurement 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
Signal-to-noise ratio: More than 90 dB
Dynamic range: More than 88 dB

Tape deck section

Recording system: 4-track 2-channel, stereo

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

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

Antenna: FM lead antenna
Antenna terminals: 75 ohms unbalanced
Intermediate frequency: 10.7 MHz

AM tuner section

Tuning range
- Pan American and Oceanian models: 530 – 1,710 kHz (with 10 kHz tuning interval)
- 531 – 1,710 kHz (with 9 kHz tuning interval)
- European and Russian models: 531 – 1,602 kHz (with 9 kHz tuning interval)
- Other models: 530 – 1,610 kHz (with 10 kHz tuning interval)
- 531 – 1,602 kHz (with 9 kHz tuning interval)

Antenna: AM loop antenna, external antenna terminal
Intermediate frequency: 450 kHz

General

Power requirements
- European and Russian models: AC 230 V, 50/60 Hz
- Mexican model: AC 127 V, 60 Hz
- Argentine model: AC 220 V, 50/60 Hz
- Other models: AC 120, 220 or 230 – 240 V, 50/60 Hz, Adjustable with voltage selector

Power consumption
- HCD-GT555: 216 W
- HCD-GT444: 286 W
- HCD-GT222: 163 W
- HCD-GT111: 150 W

Dimensions (w/h/d) (excl. speakers)
- Approx. 231 × 361 × 437.5 mm (9 1/8 × 14 1/4 × 17 1/4 inch)

Mass (excl. speakers)
- HCD-GT555/GT444/GT222 (Except European model), HCD-ZT4: 10.0 kg (22 lb 1 oz)
- HCD-GT222 (European model): 9.6 kg
- HCD-GT111: 8.0 kg

Design and specifications are subject to change without notice.

COMPACT DISC DECK RECEIVER

9-889-112-01
2008D05-1

Sony Corporation
Audio Business Group
Published by Sony Techno Create Corporation

SONY®

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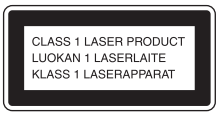
CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



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

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.

SAFETY-RELATED COMPONET 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.

SECTION 1
SERVICING NOTES

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

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

NOTES ON LASER DIODE EMISSION CHECK

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

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 viscou-s (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.

RELEASING THE DISC TRAY LOCK

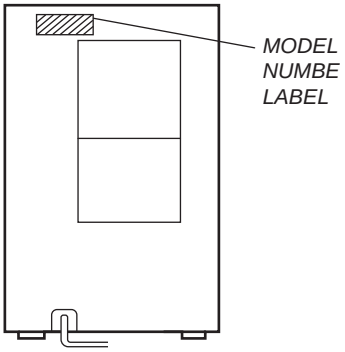
The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Releasing Procedure:

1. Press [I/⏻] button to turn the power on.
2. Press the [CD] button to select CD function.
3. While pressing the [■] button, press the [⏏] button for more 5 seconds).
4. The message “UNLOCKED” is displayed and the disc tray is unlocked.

Note: When “LOCKED” is displayed, the slot lock is not released by turning power on/off with the [I/⏻] button.

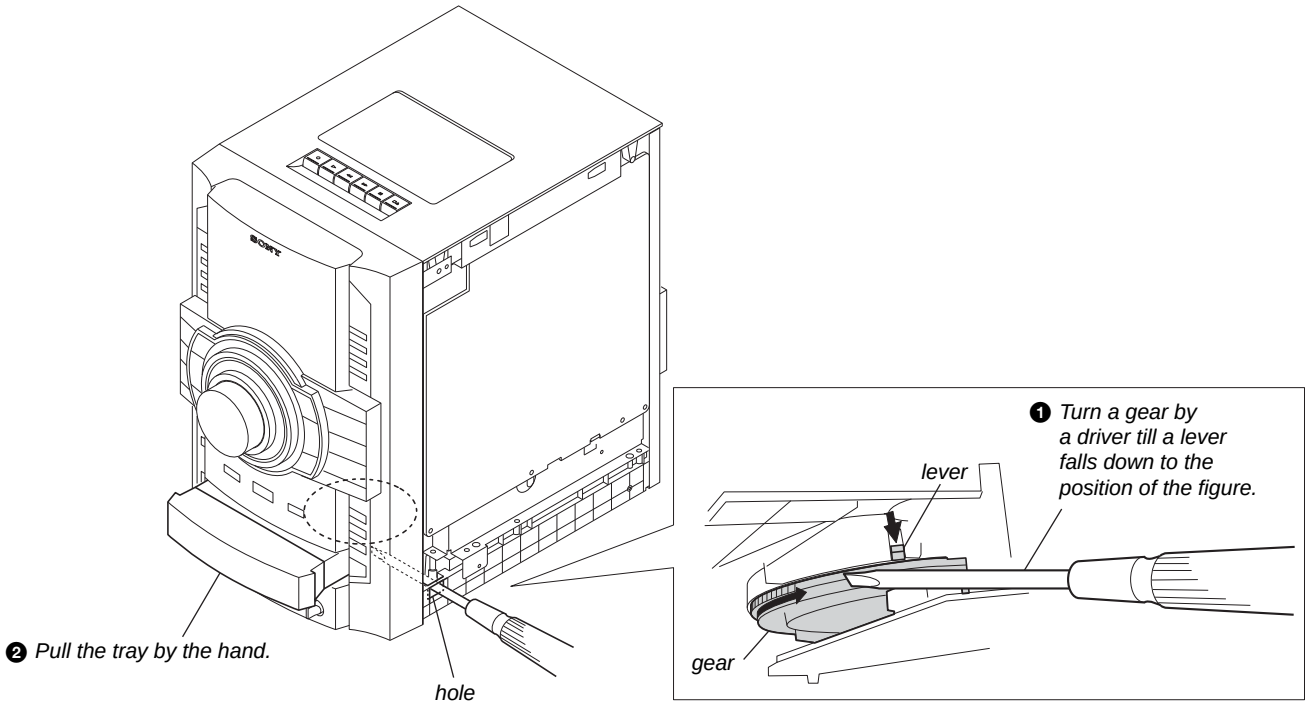
MODEL IDENTIFICATION – Back Panel –



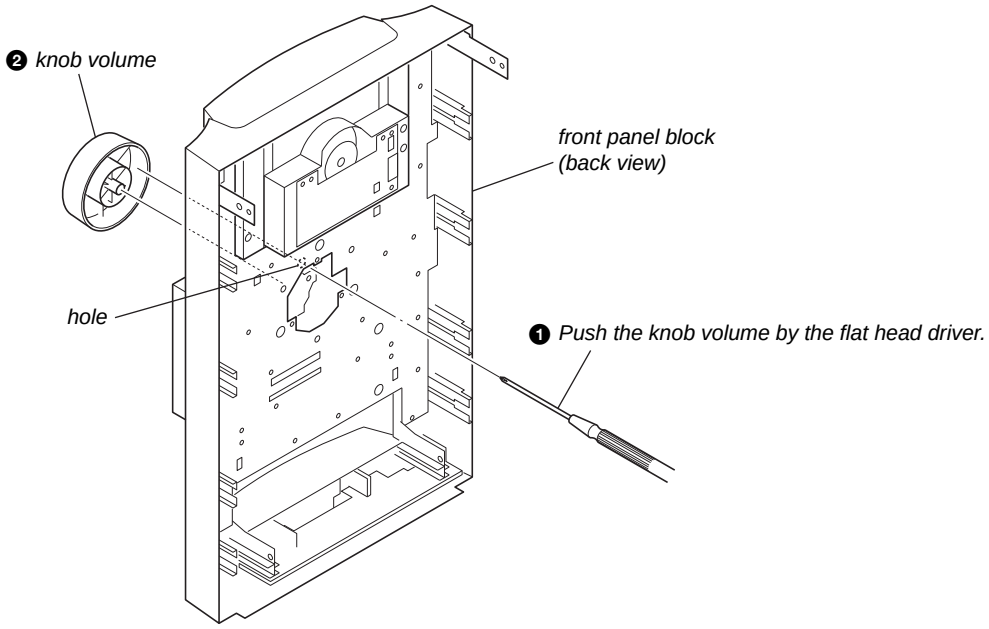
Model	Part No.
GT555: E2	3-287-080-0
GT444: E2	3-287-080-1
GT222: E2	3-287-080-2
GT111: E2	3-287-080-3
GT555: MX	3-287-081-0
GT444: MX	3-287-081-1
GT222: MX	3-287-081-2
GT111: E3	3-287-082-0
GT555: AR	3-287-085-0
GT444: AR	3-287-085-1
GT222: AR	3-287-085-2
GT111: AR	3-287-085-3
GT555: E51	3-287-086-0
GT444: E51	3-287-086-1
GT222: E51	3-287-086-2
GT111: E51	3-287-086-3
GT111: AEP	3-287-088-0
GT222: AEP	3-287-088-1
GT444: AEP, UK	3-287-088-2
GT111: RU	3-287-090-0
GT222: RU	3-287-090-1
GT444: RU	3-287-090-2
GT555: RU	3-287-090-3

- Abbreviation
  AR : Argentina model
  E2 : 120V AC area in E model
  E3 : 240V AC area in E model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  RU : Russian model

HOW TO OPEN THE TRAY WHEN POWER SWITCH TURN OFF

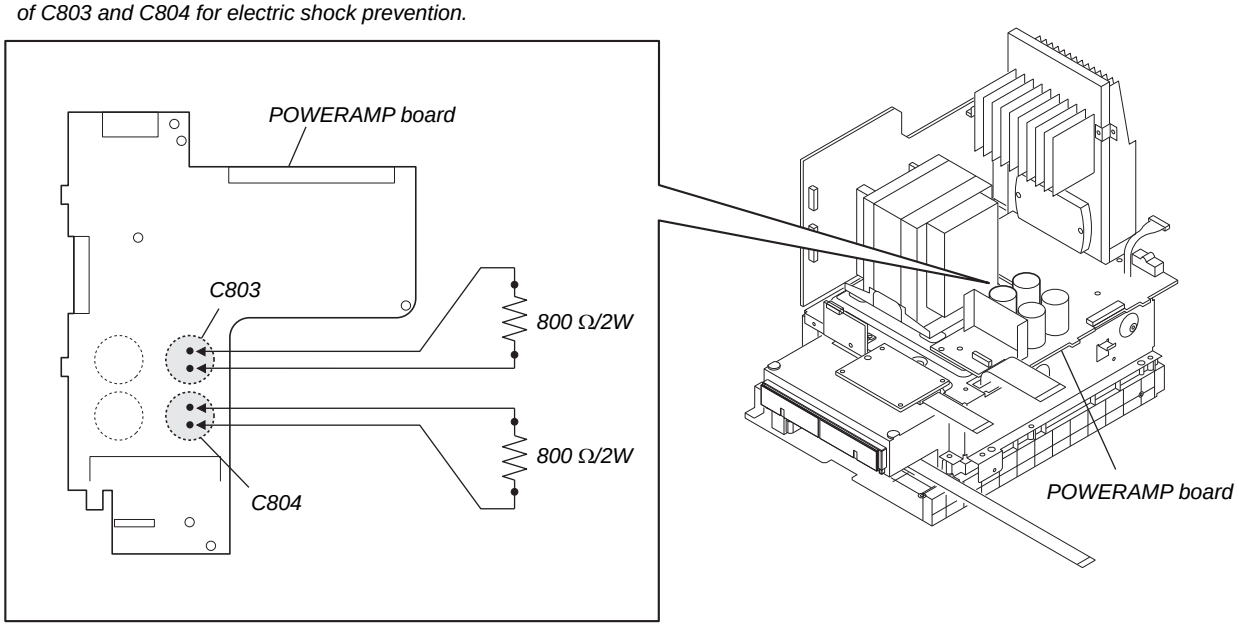


HOW TO REMOVE THE KNOB VOLUME

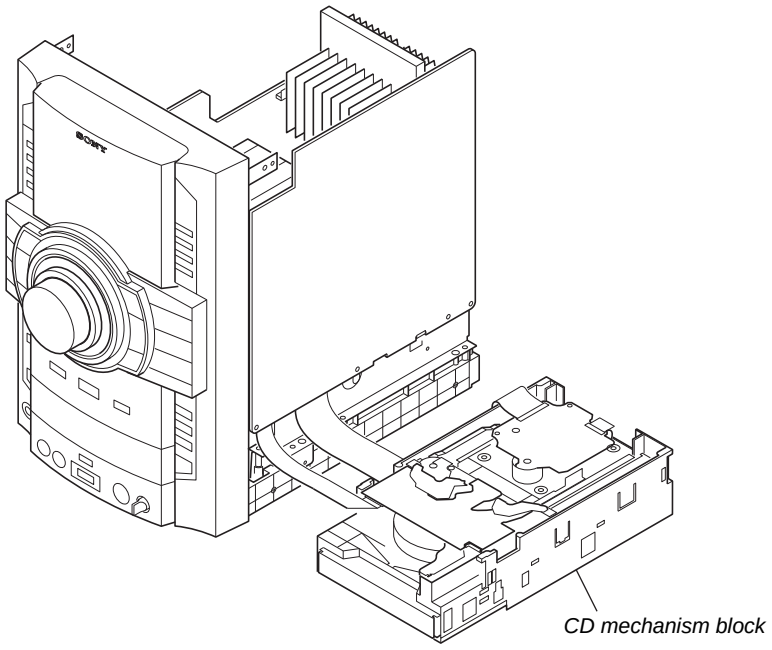


CAPACITOR DISCHARGE FOR ELECTRIC SHOCK PREVENTION

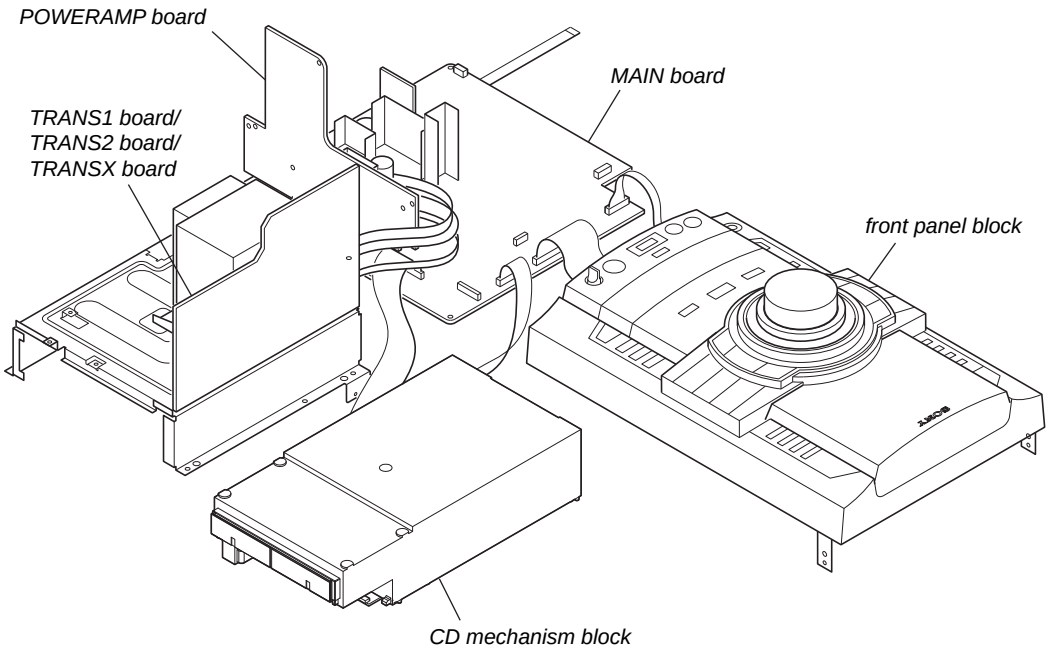
In checking the MAIN board, make a capacitor discharge of C803 and C804 for electric shock prevention.



CD MECHANISM BLOCK SERVICE POSITION



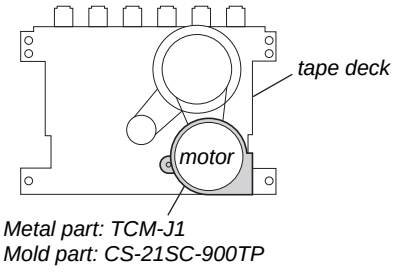
POWERAMP BOARD SERVICE POSITION



HOW TO DISTINGUISH TAPE MECHANISM DECK

Two kinds of tape mechanism decks installed by this set exist.

Please do the repair exchange after confirming which tape mechanism deck set of the repair according to how to distinguish the figure below.



Tape Deck Name	Tape Deck Part No.	Belt Part No.
TCM-J1	A-1527-851-A	2-670-389-01 BELT (1) 3-214-817-01 BELT (FR)
CS-21SC-900TP	1-797-575-11	2-688-621-01 BELT (R/F) 2-688-622-01 BELT (MAIN)

SECTION 2
GENERAL

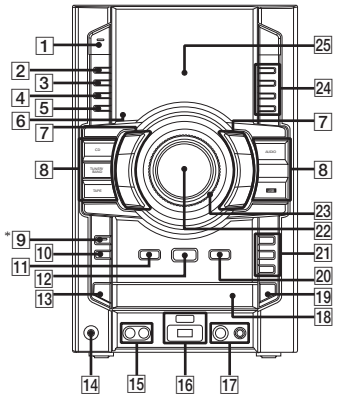
This section is extracted from instruction manual.

Guide to parts and controls

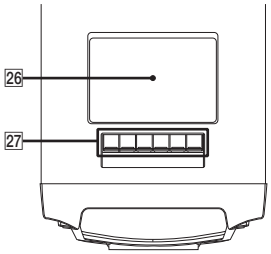
This manual mainly explains operations using the remote, but the same operations can also be performed using the buttons on the unit having the same or similar names.

Unit

Front view



Top view



* HCD-GT555 and HCD-GT444 only

1
I/⏻ (on/standby)
Press to turn on the system.
The STANDBY indicator lights up when the system is turned off.

2
DISPLAY
Press to change the information on the display.

3
METER MODE
Press to select the preset meter display.

4
OPTIONS
Press to change the display, USB and MP3 BOOSTER+ settings.

5
ERASE
Press to erase audio files and folders from the connected optional USB device.

6
Remote sensor

7
+/– (select folder)
Press to select a folder.

◀◀/▶▶ (rewind/fast forward)
Press to find a point in a track.

►II (play/pause)
Press to start or pause playback.

■ (stop)
Press to stop playback.

TUNING +/–
Press to tune in the station you want.

I◀◀ /▶▶I (go back/go forward)
Press to select a track or file.

8
CD
Press to select the CD function.

TUNER/BAND
Press to select the TUNER function.
Press to select the FM or AM band.

TAPE
Press to select the TAPE function.

AUDIO
Press to select the AUDIO function.

USB
Press to select the USB function.

9
HCD-GT555 and HCD-GT444 only
SUBWOOFER
Press to turn on and off the subwoofer.
The SUBWOOFER indicator lights up when the subwoofer is turned on.

10
REC TIMER
Press to set the Recording Timer.

11
RETURN
Press to return to the parent folder.
Press to exit search mode.

12
ENTER
Press to enter the settings.

13
DISC SKIP/EX-CHANGE
Press to select a disc. Press to exchange a disc while playing.

14
PHONES jack
Connect the headphones.

15
AUDIO INPUT L/R jacks
Connect to an audio component (Portable audio player, etc.).

16
(USB) indicator
Lights up in red when transferring to the connected optional USB device or when erasing audio files or folders.

(USB) port
Connect an optional USB device.

17
MIC jack
Connect an optional microphone.

MIC LEVEL
Turn to adjust the microphone volume.

18
Disc tray

19
▲ OPEN/CLOSE
Press to insert or eject a disc.

20
REC TO USB
Press to transfer onto the connected optional USB device.

21
DISC 1 – 3
Press to select a disc. Press to switch to the CD function from other function.

22
MASTER VOLUME
Turn to adjust the volume.

23
OPERATION DIAL
Turn to select a setting in the OPTIONS menu.
Turn to select a track, file or folder.

24
PRESET EQ, GROOVE, SURROUND
Press to select a sound effect.

EQ BAND
Press to select the frequency band.

25
Display

26
Tape deck

27
● (record)
Press to record onto a tape.

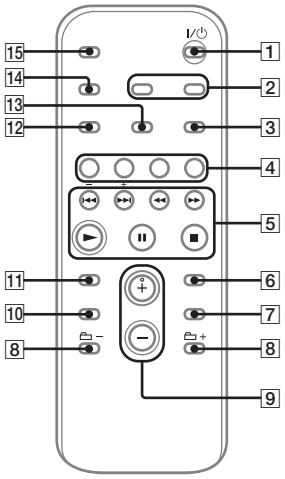
► (play)
Press to start tape playback.
* The ► button has a tactile dot. Use the tactile dot as a reference when operating the system.

◀◀/▶▶ (rewind/fast forward)
Press to rewind/fast forward a tape.

■ ▲ (stop/eject)
Press to stop tape playback.
Press to insert or eject a tape.

II (pause)
Press to pause tape playback.

Remote RM-AMU006



1
I/⏻ (on/standby)
Press to turn on the system.

2
CLOCK/TIMER SELECT
CLOCK/TIMER SET
Press to set the clock and the timers.

3
REPEAT/FM MODE
Press to listen to a disc, an USB device, a single track or file repeatedly.
Press to select the FM reception mode (monaural or stereo).

4
USB
Press to select the USB function.

CD
Press to select the CD function.

TUNER/BAND
Press to select the TUNER function.
Press to select the FM or AM band.

FUNCTION
Press to select a function.

5
I◄◄ /►►I (go back/go forward)
Press to select a track or file.

◄◄/►► (rewind/fast forward)
Press to find a point in a track or file.

+/– (tuning)
Press to tune in the station you want.

► (play)
Press to start playback.

II (pause)
Press to pause playback.

■ (stop)
Press to stop playback.

6
ENTER
Press to enter the settings.

7
DISC SKIP
Press to select a disc.

8
+/– (select folder)
Press to select a folder.

9
VOLUME +/–*
Press to adjust the volume.

* The VOLUME + button has a tactile dot. Use the tactile dot as a reference when operating the system.

10
EQ
Press to select a sound effect.

11
CLEAR
Press to delete the last step from the program list.

12
TUNER MEMORY
Press to preset the radio station.

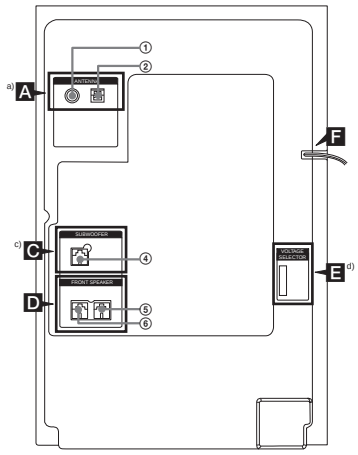
13
PLAY MODE/TUNING MODE
Press to select the play mode of an AUDIO CD, MP3 disc or an optional USB device.
Press to select the tuning mode.

14
DISPLAY
Press to change the information on the display.

15
SLEEP
Press to set the Sleep Timer.

Getting Started

Hooking up the system securely

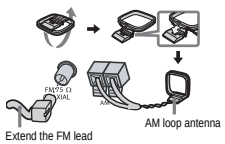


① To FM lead antenna
② To AM loop antenna
④ To subwoofer
⑤ To front speaker (left)
⑥ To front speaker (right)

a) The FM 75 Ω COAXIAL jack varies according to models.
c) HCD-GT555 and HCD-GT444 only.
d) The VOLTAGE SELECTOR varies according to models.

A Antennas

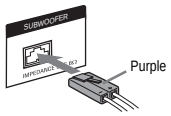
Find a location and an orientation that provide good reception, and then set up the antennas.



Keep the antennas away from the speaker cords, the power cord and the USB cable to avoid picking up noise.

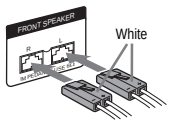
C Subwoofer (HCD-GT555 and HCD-GT444 only)

Be sure to insert the connector straight into the terminals.



D Front speakers

Be sure to insert the connector straight into the terminals.



E VOLTAGE SELECTOR

For models with a voltage selector, set VOLTAGE SELECTOR to the local power line voltage.

F Power

Connect the power cord to a wall socket. The demonstration appears in the display. If the plug does not fit the wall socket, detach the supplied plug adaptor (only for models equipped with an adaptor).

When carrying this system

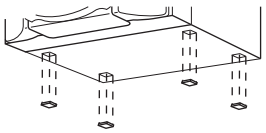
Use the buttons on the unit for this operation.

1 Remove all discs to protect the CD mechanism.
2 Press CD to select the CD function.
3 Hold down DISC SKIP/EX-CHANGE, and press I/⏻ until "STANDBY" appears.
4 After "MECHA LOCK" appears, unplug the power cord.

Speaker pads

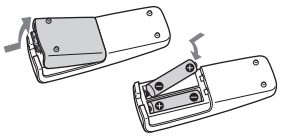
Attach the supplied speaker pads to the bottom of the front speakers and subwoofer to prevent slipping.

Front speakers:
4 pads for each speaker
Subwoofer:
4 pads (HCD-GT555 and HCD-GT444 only)



To use the remote

Slide and remove the battery compartment lid, then, insert the two supplied R6 (size AA) batteries, ⊖ side first, matching the polarities shown below.



Notes

- With normal use, the batteries should last for about six months.
- Do not mix an old battery with a new one or mix different types of batteries.
- If you do not use the remote for a long period of time, remove the batteries to avoid damage from battery leakage and corrosion.

Setting the clock

You cannot set the clock in Power Saving Mode.
Use the buttons on the remote for this operation.

1 **Press I/⏻ to turn on the system.**
2 **Press CLOCK/TIMER SET.**
If "PLAY SET" appears on the display, press I◄◄ /►►I
"CLOCK SET" and then press ENTER (RM-AMU006) or ⊕ (RM-AMU008).
3 **Press I◄◄ /►►I repeatedly to set the hour, and then press ENTER.**
4 **Use the same procedure to set the minutes.**
The clock settings are lost when you disconnect the power cord or if a power failure occurs.

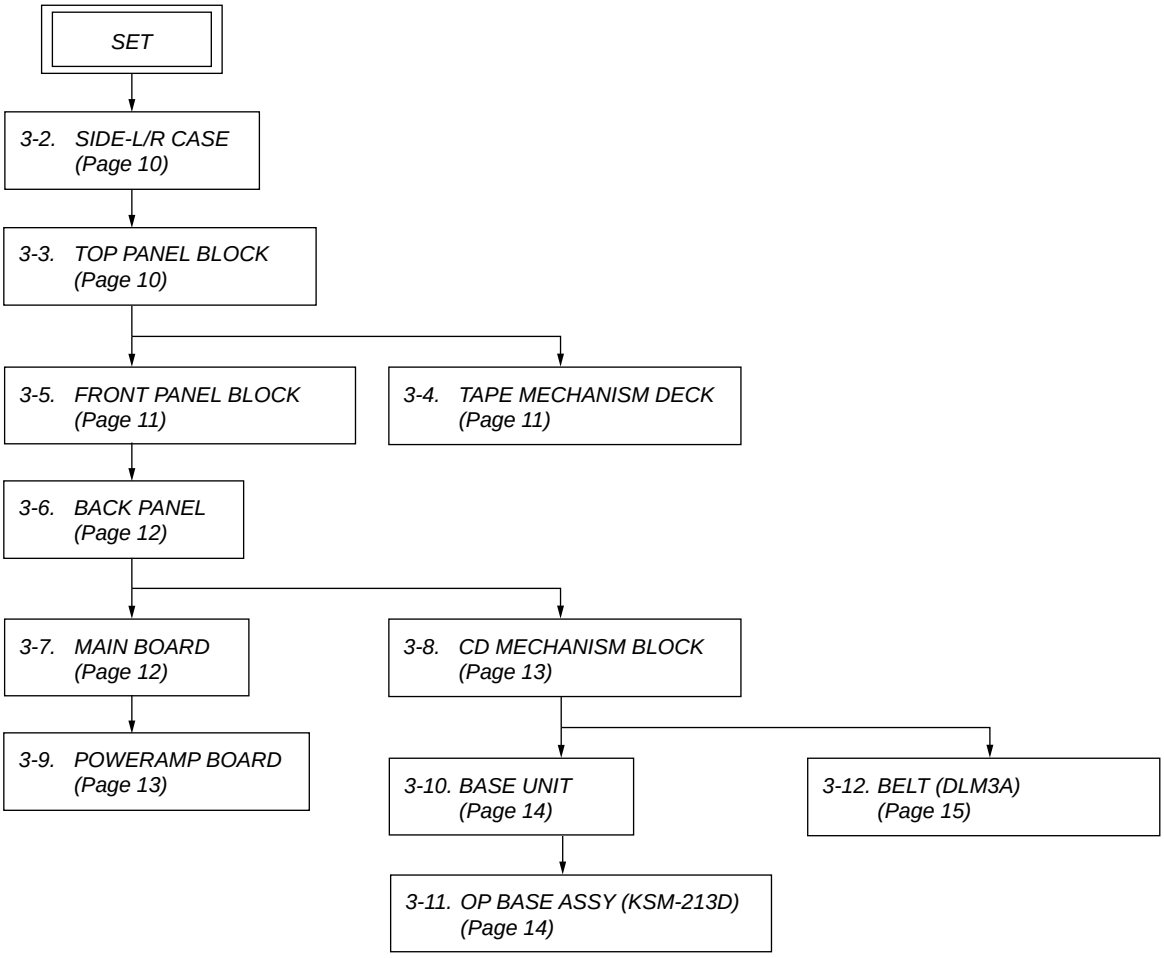
To display the clock when the system is turned off

Press DISPLAY repeatedly until the clock is displayed. The clock is displayed for about 8 seconds.

SECTION 3
DISASSEMBLY

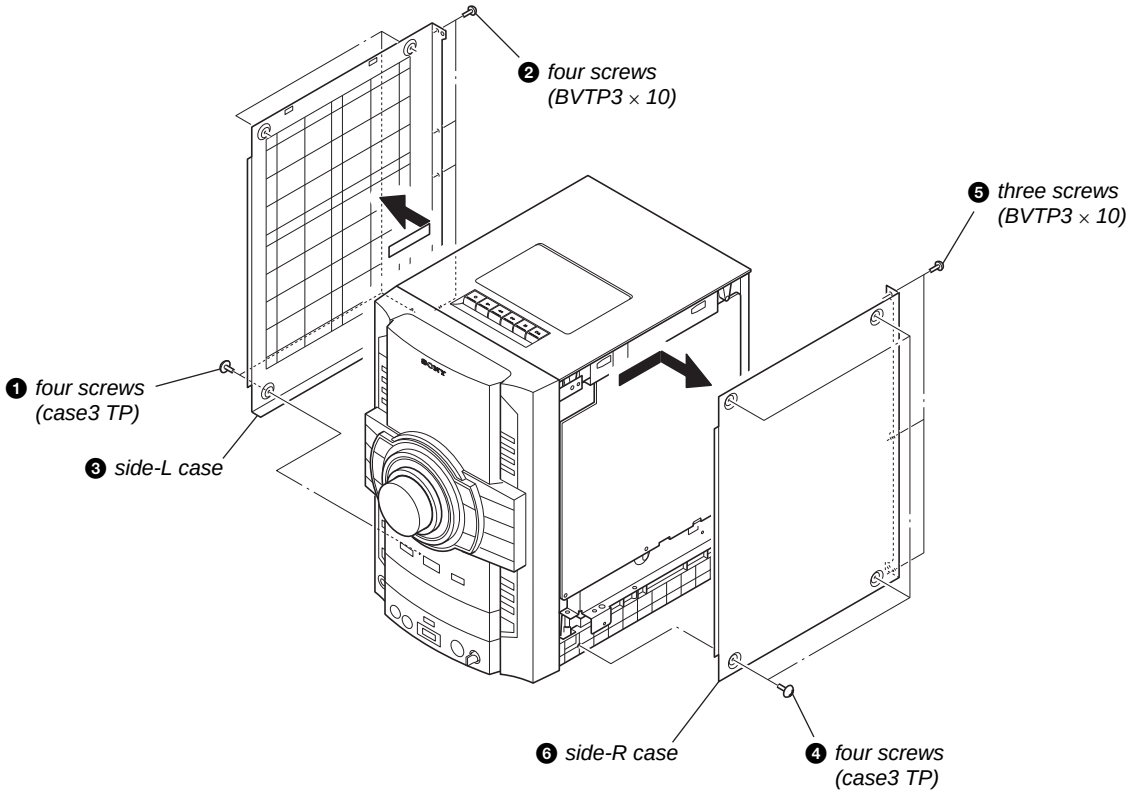
• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

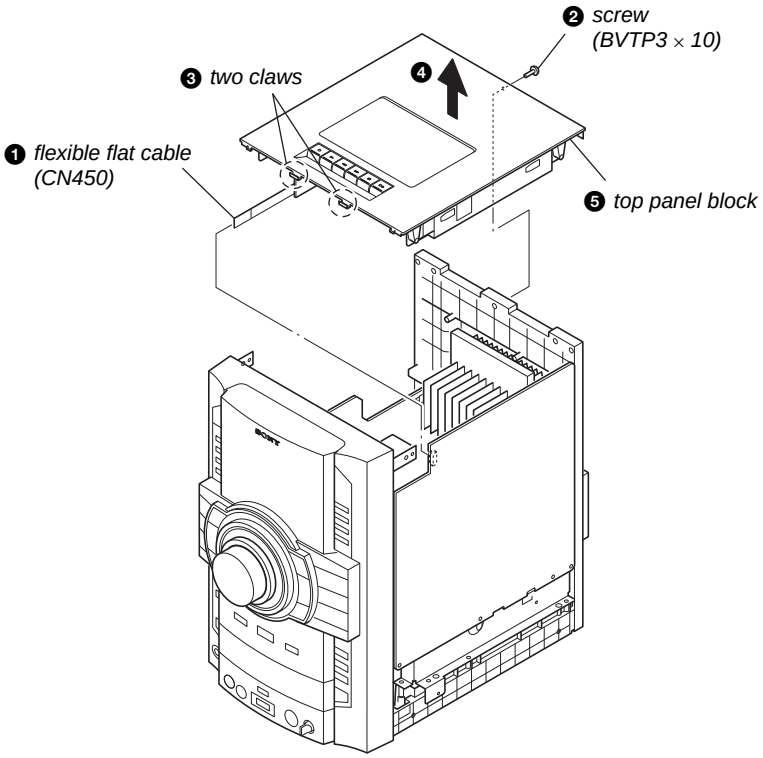


Note: Follow the disassembly procedure in the numerical order given.

3-2. SIDE-L/R CASE

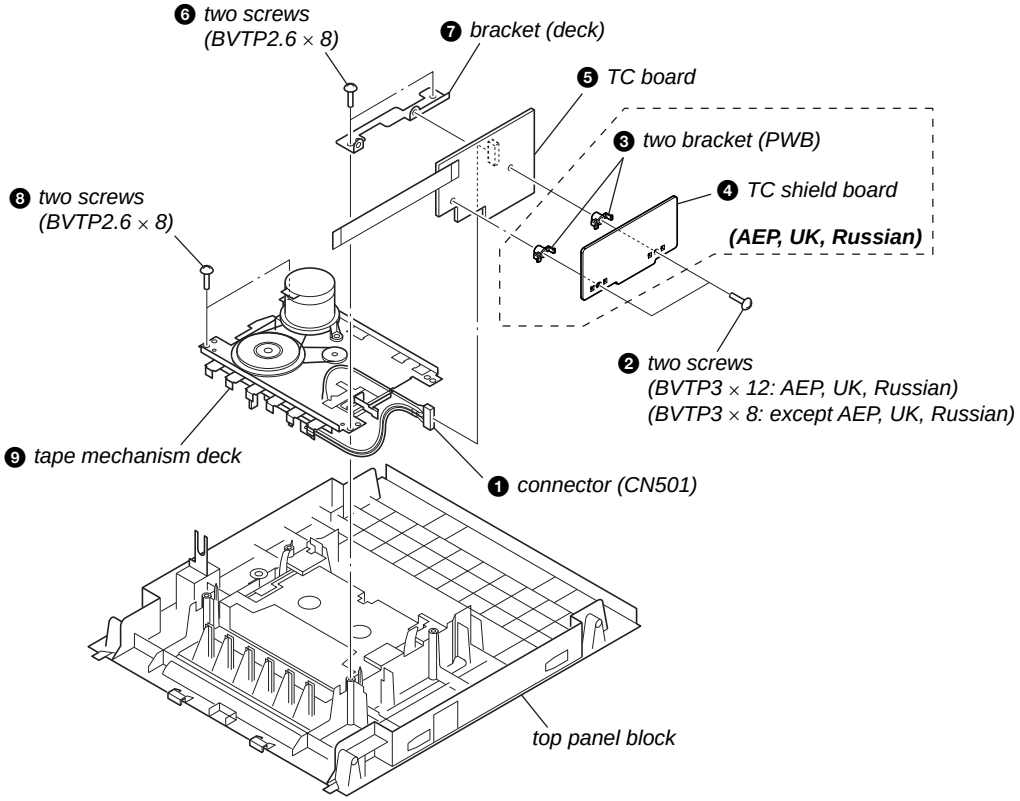


3-3. TOP PANEL BLOCK

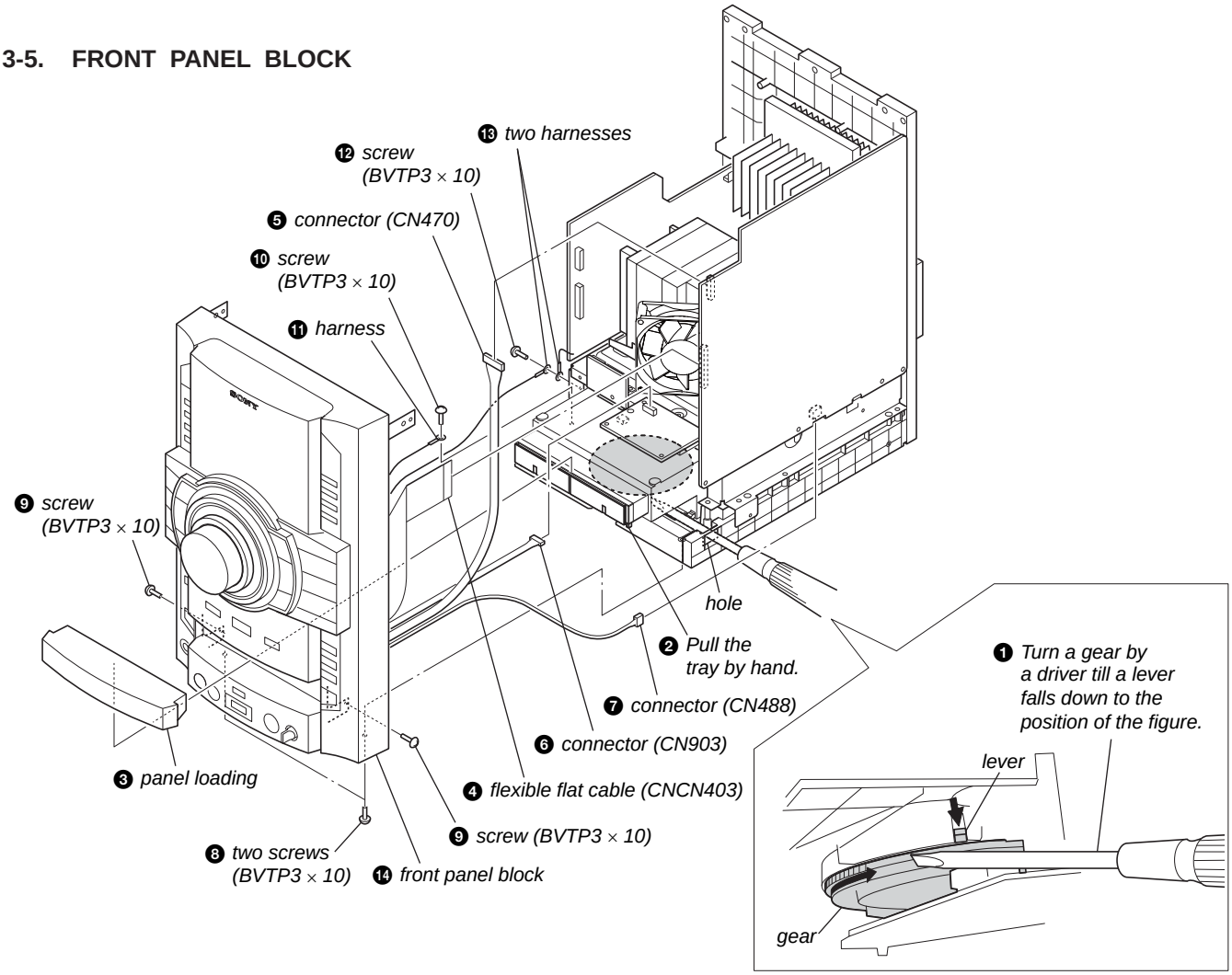


3-4. TAPE MECHANISM DECK

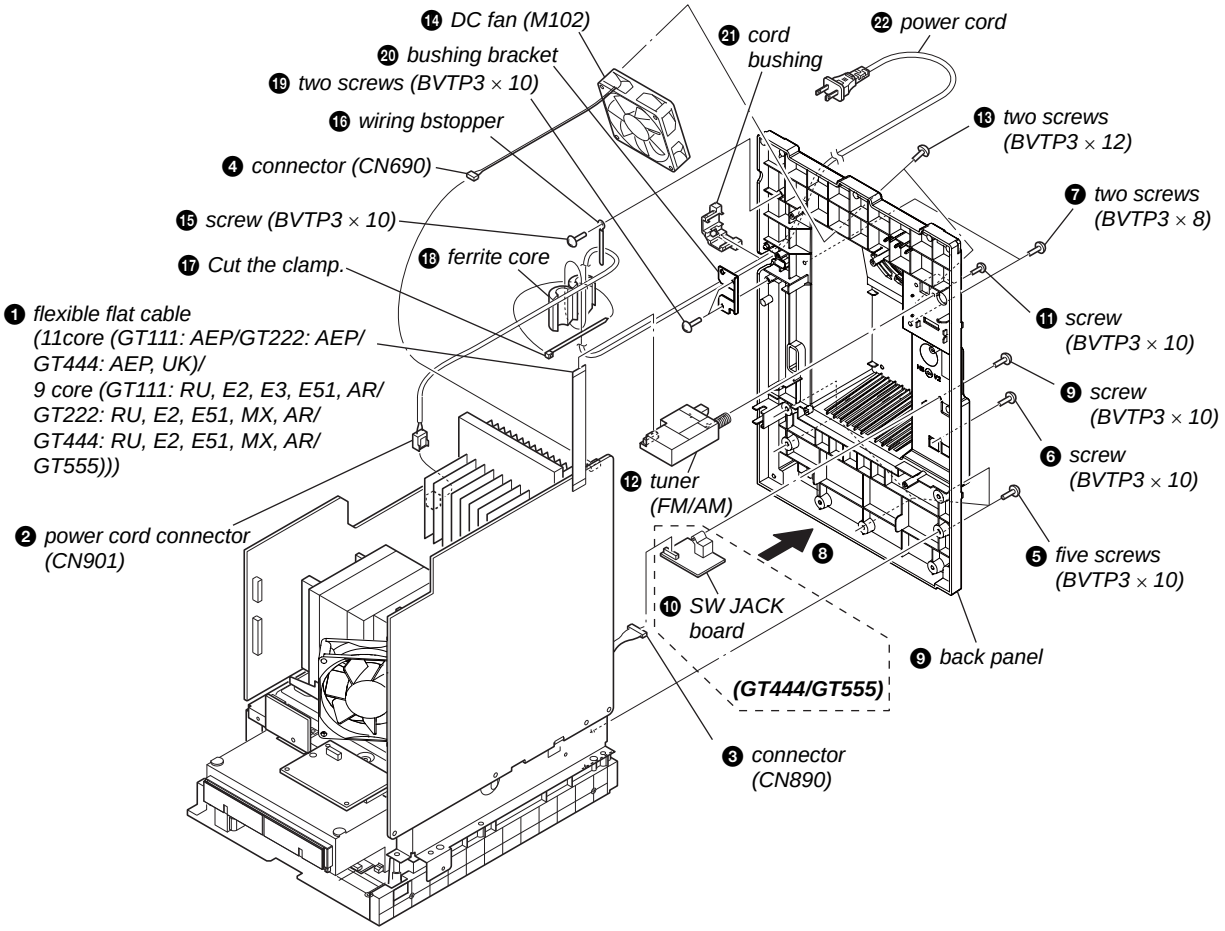
Note: This illustration is seeing top panel block from inside.



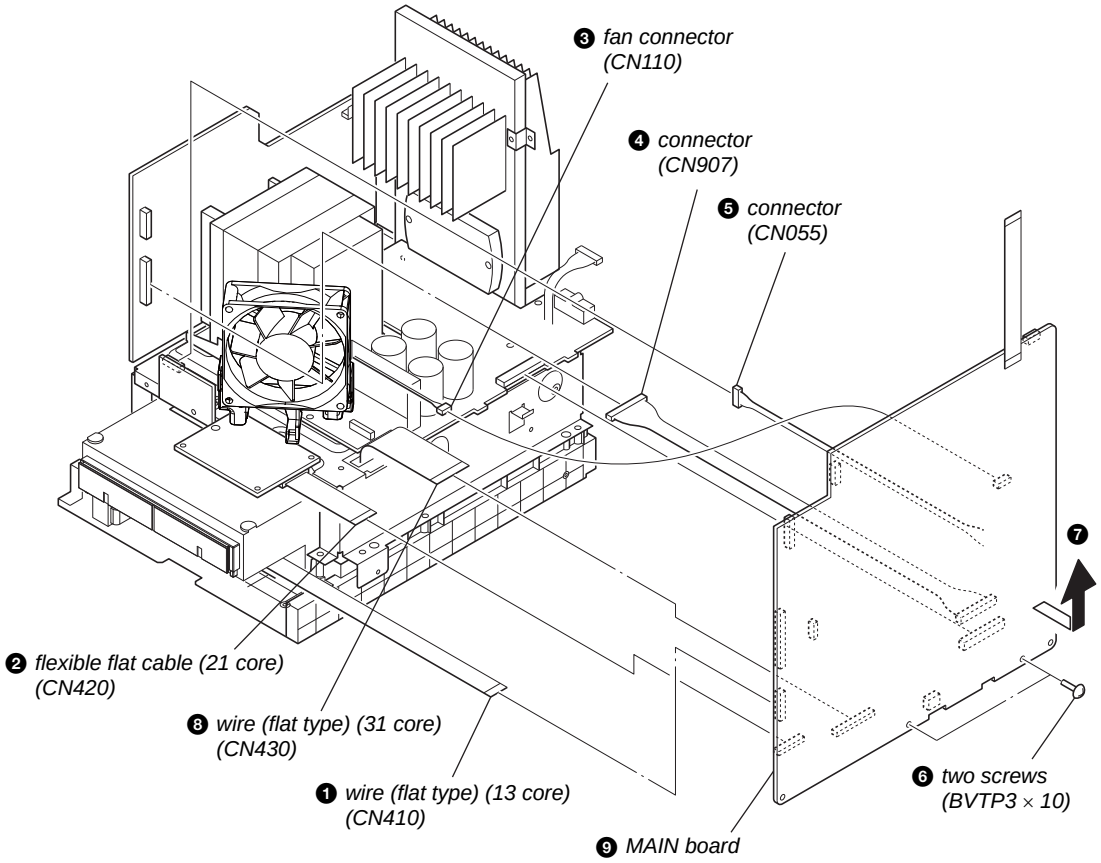
3-5. FRONT PANEL BLOCK



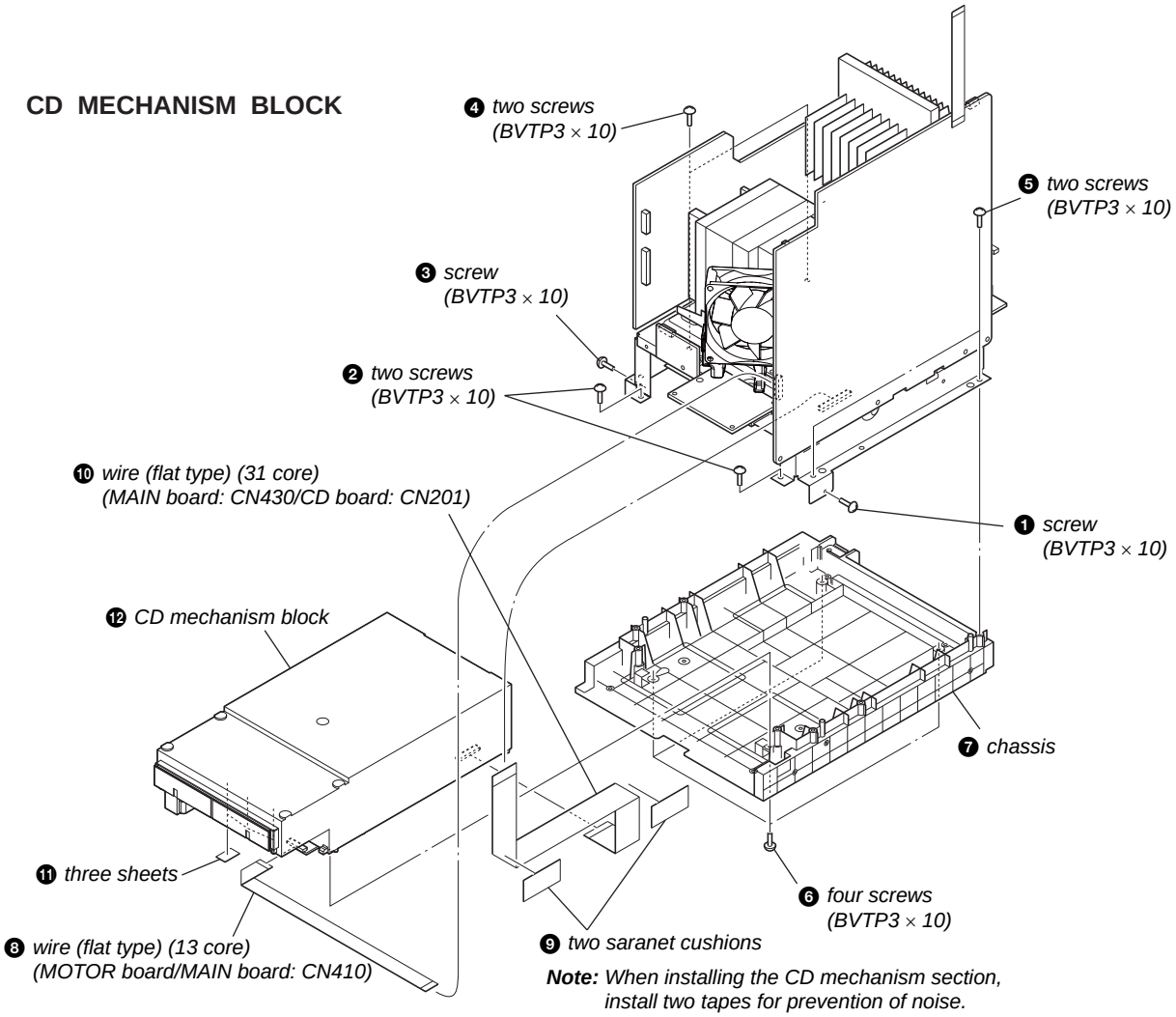
3-6. BACK PANEL



3-7. MAIN BOARD

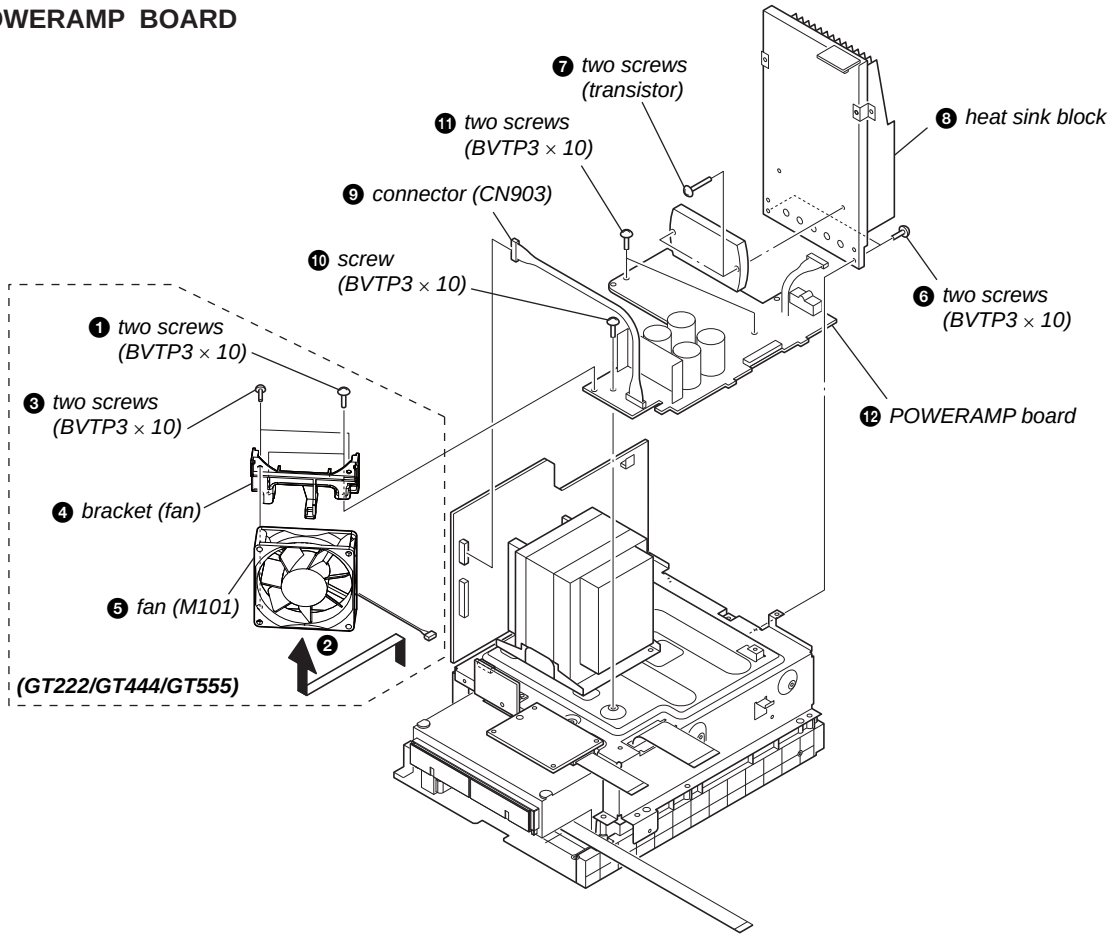


3-8. CD MECHANISM BLOCK

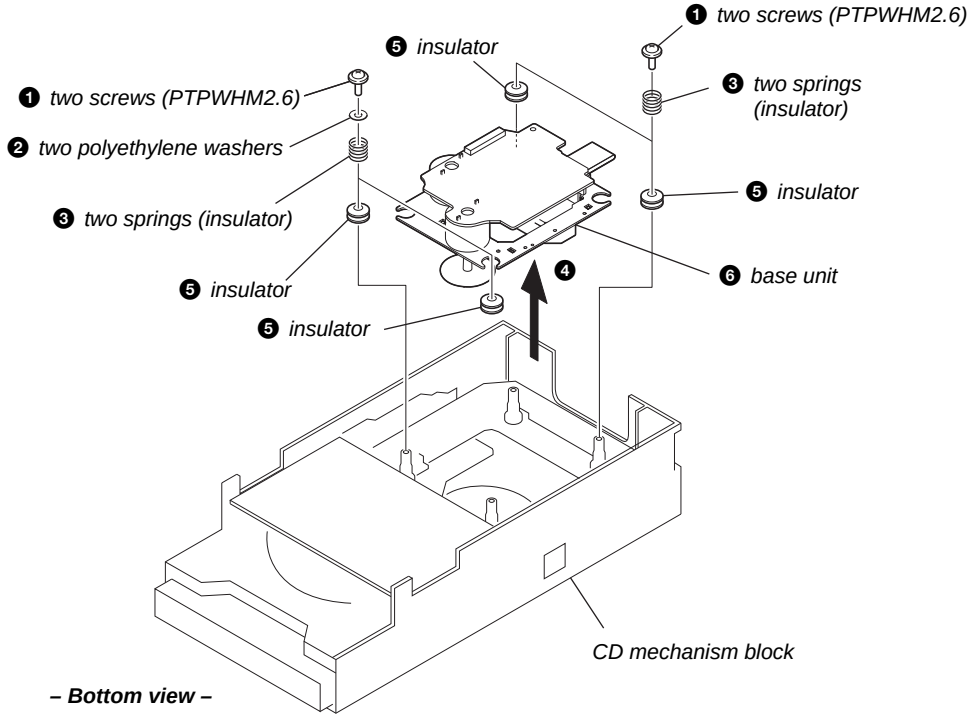


Note: *When installing the CD mechanism section, install two tapes for prevention of noise.*

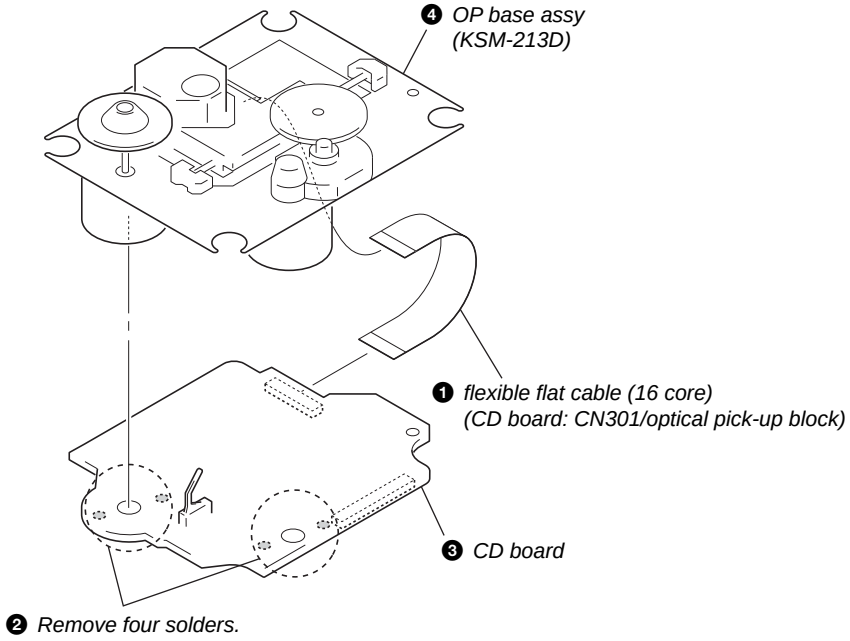
3-9. POWERAMP BOARD



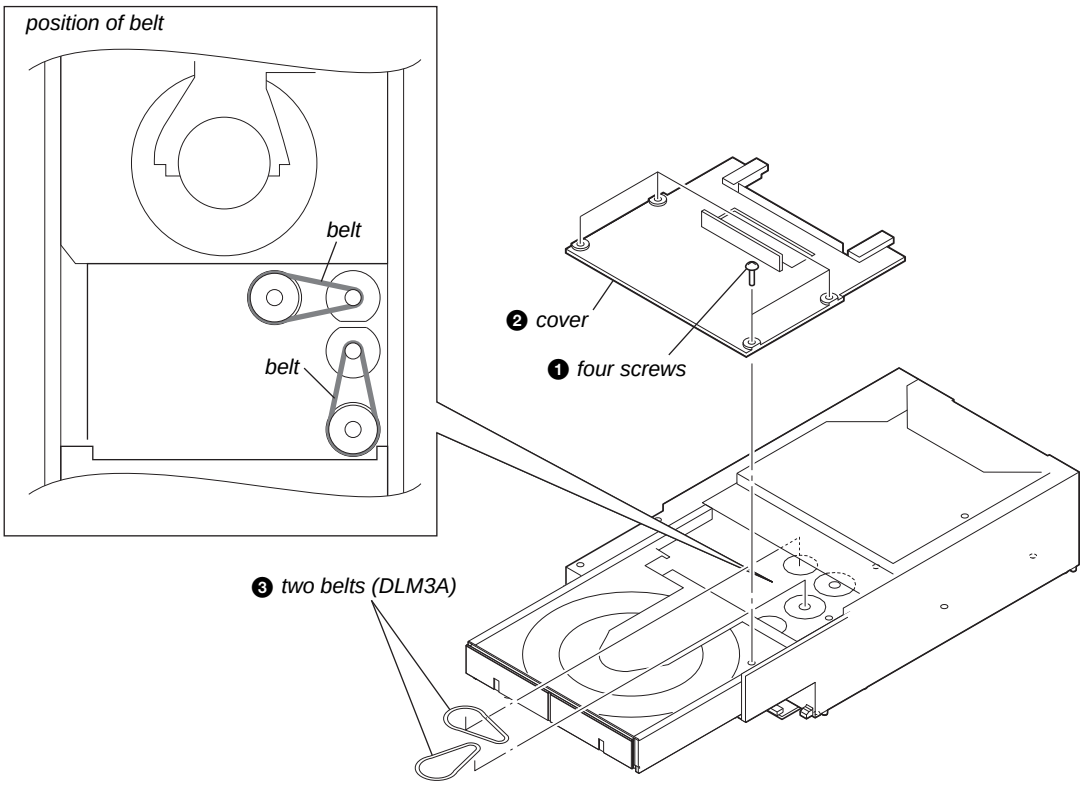
3-10. BASE UNIT



3-11. OP BASE ASSY (KSM-213D)



3-12. BELT (DLM3A)



SECTION 4
TEST MODE

PANEL TEST MODE

This mode is used to check the fluorescent indicator tube, LEDs, keys, [MASTER VOLUME] jog, [OPERATION DIAL] jog, model, destination and software version.

Procedure:

1. Press [■] button, [METER MODE] button and [DISC 2] button simultaneously.
2. All LEDs and segments in fluorescent indicator tube are lighted up. The POWER LED is lighted up in red color if the system is turned off and POWER LED is turn off if the system is turned on.
3. When you want to enter to the software version display mode, press [DISC 1] button. The model information appears on the fluorescent indicator tube. “GSL 1R” is shown for HCD-GT111, “GSL 2R” is shown for HCD-GT222, “GSL 2RS” is shown for HCD-GT444 and “GSL 3RS” is shown for HCD-GT555. Press [DISC 1] button again to view the destination information.
4. During the destination information display, press [DISC 1] button. Each time [DISC 1] button is pressed, the fluorescent indicator tube shows the version of each category software in the following sequence: SC, GC, SYS, CD, CDDM, CDMA, CDMB, BDA, BDB, ST, TC, TA, TM, MM1, MM2 (USB Micro computer) , MTR (METER) and return back to model information display.
5. When [DISC 3] button is pressed while the version numbers are being displayed except model and destination, the date of the software creation appears. When [DISC 3] button is pressed again, the display returns to the software version display. When [DISC 1] button is pressed while the date of the software creation is being displayed, the date of the software creation is displayed in the same order of software version display.
6. Press [DISC 2] button, the key check mode is activated.
7. In the key check mode, the fluorescent indicator tube displays “K 0 J0 V0”.
   Each time a button is pressed, “K” value increases. 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 [MASTER VOLUME] knob is turned clockwise, or it decreases in the manner of 0, 9, 8,7 ... if [MASTER VOLUME] knob is turned counterclockwise.
   “J” value increases in the manner of 0,1, 2, 3 ... if [OPERATION DIAL] knob is turned clockwise, or it decreases in the manner of 0, 9, 8,7 ... if [OPERATION DIAL] knob is turned counterclockwise.
8. When [DISC SKIP/EX-CHANGE] button is pressed after all LEDs and segments in fluorescent indicator tube light up, alternate segments in fluorescent indicator tube and LEDs would light up. If you press [DISC SKIP/EX-CHANGE] button again, another half of alternate segments in fluorescent indicator tube and LEDs would light up. Pressing [DISC SKIP/EX-CHANGE] button again would cause all segments in fluorescent indicator tube and LEDs light up.
9. To release from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

COMMON TEST MODE

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

To enter Common Test Mode

Procedure:

1. Press [■] button, [METER MODE] button and [DISC 3] button simultaneously.
2. The CD ring indicators flash on the fluorescent indicator tube. The function is changed to AUDIO and the volume is changed to VOLUME MIN.

Check of Amplifier

Procedure:

1. Press [EQ BAND] button repeatedly until a message “GEQ MAX” appears on the fluorescent indicator tube. GEQ increases to its maximum.
2. Press [EQ BAND] button repeatedly until a message “GEQ MIN” appears on the fluorescent indicator tube. GEQ decreases to its minimum.
3. Press [EQ BAND] button repeatedly until a message “GEQ FLAT” appears on the fluorescent indicator tube. GEQ is set to flat.
4. When the [MASTER VOLUME] knob is turned clockwise even slightly, the sound volume increases to its maximum and a message “VOLUME MAX” appears on the fluorescent indicator tube.
5. When the [MASTER VOLUME] knob is turned counterclockwise even slightly, the sound volume decreases to its minimum and a message “VOLUME MIN” appears on the fluorescent indicator tube.

Tape function

When a tape is inserted in deck and recording is started, the function is changed to AUDIO.

To release from Common Test mode

Procedure:

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

COLD RESET

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

Procedure:

1. Press [**I**/⏻] button to turn on the system.
2. Press [■] button, [ENTER] button, and [**I**/⏻] button simultaneously.
3. “COLD RESET” appears on the fluorescent indicator tube. After that, the fluorescent indicator tube becomes blank for a while, and the system is reset.

VACS ON/OFF

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

Procedure:

1. Press [**I**/⏻] button to turn on the system.
2. Press [■] button, [DISC 2], and [DISPLAY] button simultaneously. The message “VACS OFF” or “VACS ON” appears on the fluorescent indicator tube.

TUNER STEP CHANGE
(Except GT111: AEP, Russian/GT222: AEP, Russian/ GT444: AEP, Ruissian, UK/GT555: Russian models)

The step interval of AM channels can be toggled between 9 kHz and 10 kHz. This mode is not available for Saudi Arabian, European and Russian models.

Procedure:

1. Press [I/⏻] button to turn on the system.
2. Press [TUNER/BAND] button repeatedly to select the "AM".
3. Press [I/⏻] button to turn off the system.
4. Press [ENTER] button and [I/⏻] button simultaneously. The system turns 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 [I/⏻] button to turn on the system.
2. Press [CD] button to select CD function.
3. Press [■] button, [METER MODE] button, and [OPEN/ CLOSE] button simultaneously.
4. The CD service mode is activated. The message "SERVICE MODE" appears on the fluorescent indicator tube.
5. With the disc in stop status, press [▶▶] to move the optical pick-up to outside track, or press [◀◀] 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 [▶▶I] button. The message "LD ON" or "LD OFF" appears on the fluorescent indicator tube.
7. To release from this mode, press [I/⏻] button.

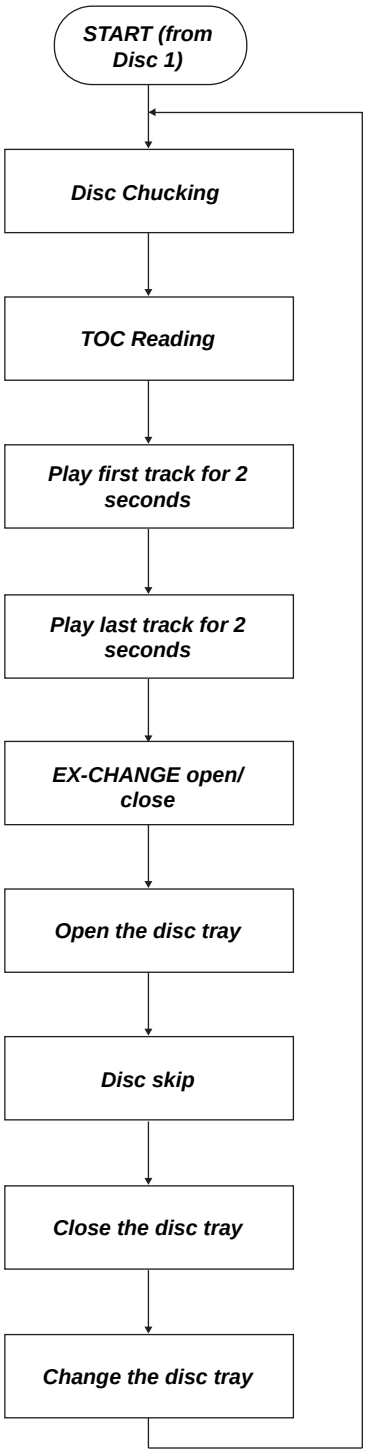
CD AGING MODE

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 [I/⏻] button to turn on the system.
2. Select CD function.
3. Load three discs on the disc tray.
4. Press [PLAY MODE] button on the remote repeatedly to select the "ALL DISCS" mode, and press the [REPEAT] button on the remote repeatedly to select "REPEAT OFF" mode.
5. Press [■] button, [METER MODE] button and [DISC SKIP/ EX-CHANGE] button simultaneously.
6. Aging operation is started.
7. To release from this mode, press [I/⏻] button or disconnect the power cord to turn off the system.

- Aging mode sequence:

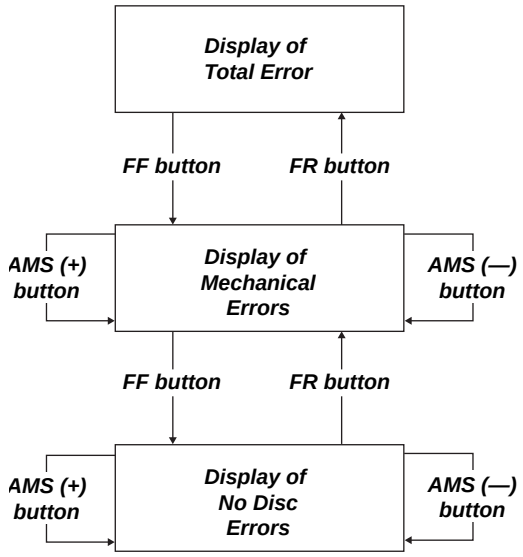


CD ERROR CODE MODE

Display the CD error code when an error occurred

Procedure:

1. Press [■] button, [METER MODE] button and [DISC 1] button simultaneously to enter the error code display mode.
2. The fluorescent indicator tube displays the number of total error.
3. Each time [◀◀] or [▶▶] button is pressed, display change as below.



4. To clear the error record, operate the cold reset. (Refer to the "COLD RESET")
5. To release from this mode, press the [I/⏻] button or disconnect the power plug to turn off the system.

- Display of total error

EM**ED**

EM**: The number of mechanical errors.
ED** : The number of no disc errors after chucking the disc.

- Display of mechanical errors

M*$$%%&&##00

M* : The number of mechanical error ("0" is latest one)
(Press [▶▶I] button to display the next error)
$$: Not used
%% : Loading related error (Second figure is not used)
D : Stop by the problem other than mechanical problem while closing.
E : Stop by the problem other than mechanical problem while opening.
C : Stop by the problem other than mechanical problem while chucking up.
F : Stop by the problem other than mechanical problem while chucking down.
&& : Emerging error
01 : Stop while chucking up.
02 : Stop while chucking down.
03 : Time-out of EX-CHANGE open.
05 : Time-out of EX-CHANGE close.
: Not used

- Display of no disc errore

D*$$%%&&##00

D* : The number of no disc error ("0" is latest one)
(Press [▶▶I] button to display next error)
$$: Error type
01 : Focus error
02 : GFS error
03 : Setup error
%% : Not used
&& :
00 : No disc judgment without chucking retry.
01 : No disc judgment after chucking retry.
: The state when judged as no disc
01 : Stop
02 : Setup
03 : TOC reading
04 : Access
05 : Playback
06 : Pause
07 : Manual search (Play)
08 : Manual search (Pause)

CD REPEATS 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 [I/⏻] button to turn on the system.
2. Select CD function.
3. Press [■] button, [CD] button and [DISC 1] button simultaneously to enter the CD repeat 5 limit off mode and the fluorescent indicator tube displays "LIMIT OFF".
4. To release from this mode, operate the cold reset. (Refer to the "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 EEPROM to initial conditions during the next AC-In. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press [I/⏻] button to turn on the system.
2. Select CD function.
3. Press [■] button, [DISC 1] button and [I/⏻] button simultaneously. The system turns 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 SHIP MODE (WITHOUT MEMORY CLEAR)

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

Procedure:

1. Press [I/⏻] button to turn on the system.
2. Select CD function.
3. Press [DISC SKIP/EX-CHANGE] button and [I/⏻] button simultaneously. The system turns 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 [OPEN/CLOSE] button or [DISC SKIP/EX-CHANGE] button is pressed. The message "LOCKED" will be displayed on the fluorescent indicator tube.

Procedure:

1. Press [I/⏻] button to turn on the system.
2. Select CD function.
3. Press [■] button and [OPEN/CLOSE] button simultaneously and hold down until "LOCKED" or "UNLOCKED" displayed on the fluorescent indicator tube (around 5 seconds).

FACTORY PRESET

This mode is use to load all the factory use preset frequencies into FM 1-FM 20 and AM 1-AM 10. Originally, frequency of FM 1-FM 20 and AM 1-AM10 are set to the minimum frequency.

Procedure:

1. Press [I/⏻] button to turn on the system.
2. Press [TUNER/BAND] button, [■] button, and [DISC 1] button simultaneously and the message "FACTORY" appears on the fluorescent indicator tube. The function is changed to TUNER automatically.

VACS DISPLAY

This mode is used to check the VACS level.

Procedure:

1. Press [I/⏻] button to turn on the system.
2. Press [ERASE] button, [■] button and [ENTER] button simultaneously.
3. The fluorescent indicator tube displays "VACSA". "A" represents Conventional VACS (Triggered by signal level)
4. To release from this mode, do the step 2 again.

METER SWITCH TOUCH COUNT DISPLAY

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

Procedure:

1. Press [I/⏻] button to turn on the system.
2. Press [■] button, [ENTER] button and [DISPLAY] button simultaneously.
3. 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)
4. To release from this mode, do the step 2 again. The fluorescent indicator tube displays "MODE OUT".

METER TEST MODE

This mode is used to check the meter device.

Procedure:

1. Press [I/⏻] button to turn on the system.
2. Press [■] button, [ENTER] button and [METER MODE] button simultaneously.
3. Meter Backlight LEDs, Meter Pointer LEDs, Power Illuminator LEDs and fluorescent indicator tube are lighted up.
4. 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)
5. 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).
6. To release from this mode, do the step 2 again. The fluorescent indicator tube displays "TST MODE OUT".

SECTION 5
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head pinch roller
   erase head rubber belts
   capstan idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head magnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, appiy suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

- **Torque Measurement**

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

- **Tape Tension Measurement**

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

SECTION 6
ELECTRICAL ADJUSTMENTS

DECK SECTION | 0 dB = 0.775V

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

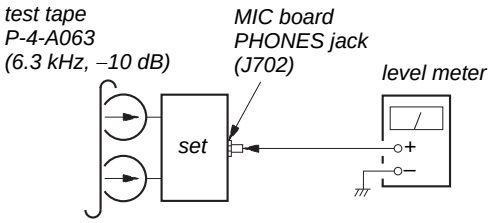
TEST TAPE

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

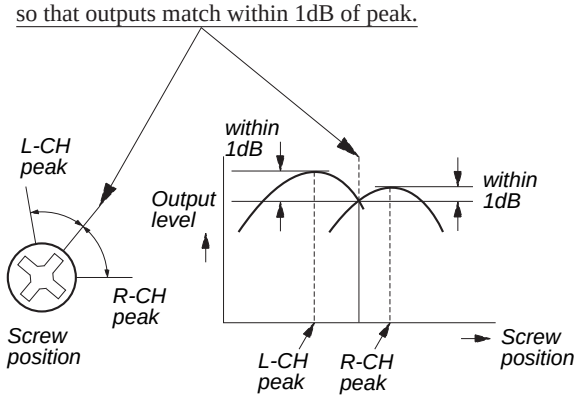
RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT

Procedure:

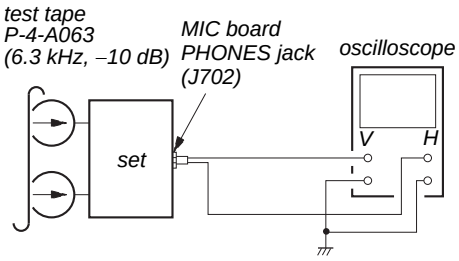
1. Mode: Playback

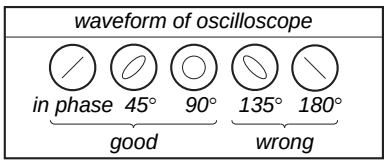


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



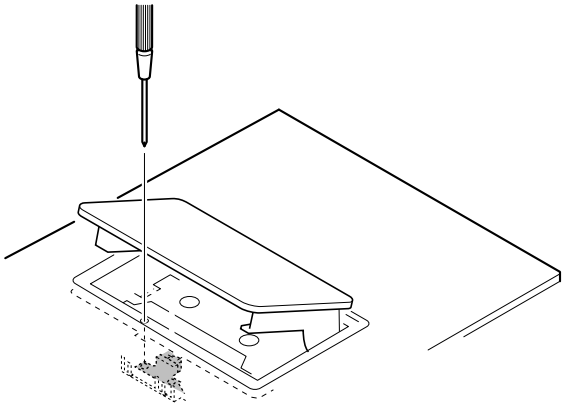
3. Mode: Playback





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

Adjustment Location: Record/Playback/Erase Head



CD SECTION

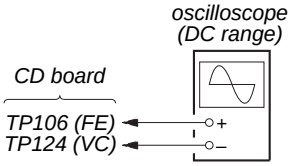
Note:

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 (PART No. 3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ 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.

TEST DISC LIST

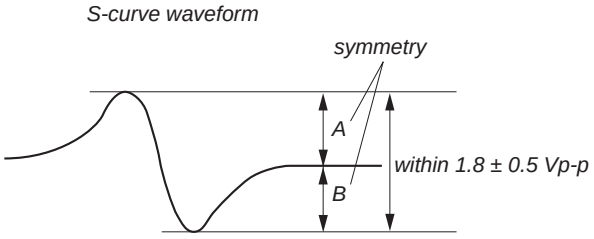
Use the following test disc on electrical checks.
YEDS-18 (PART No. 3-702-101-01) or
PATD-012 (PART No. 4-225-203-01)

S-CURVE CHECK



Procedure :

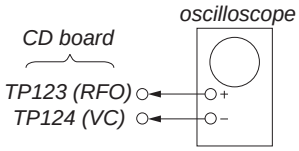
1. Connect an oscilloscope to TP106 (FE) and TP124 (VC).
2. Turn the power ON.
3. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
4. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 1.8 ± 0.5 Vp-p.



Note:

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

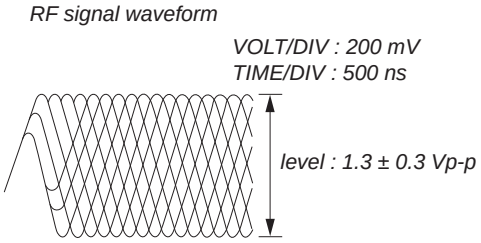
RF LEVEL CHECK



Procedure :

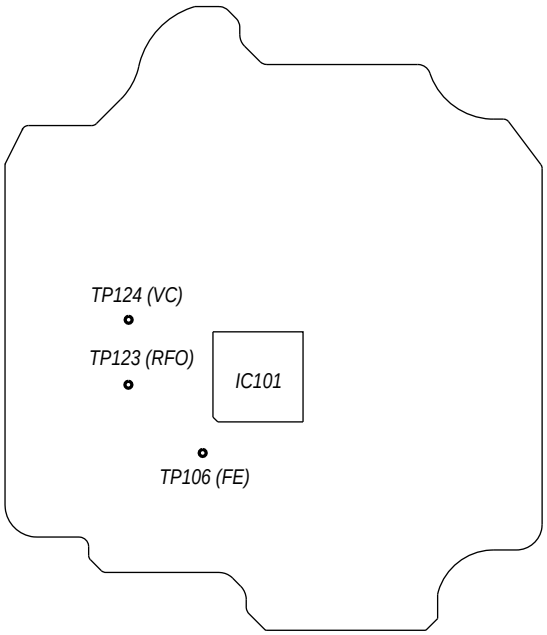
1. Connect an oscilloscope to TP123 (RFO) and TP124 (VC).
2. Turn the power ON.
3. Load a disc (YEDS-18) and playback.
4. Confirm that oscilloscope waveform is clear and check if RF signal level is correct or not.

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



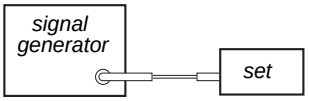
Connecting Location : CD board

– CD Board (Conductor Side) –



TUNER SECTION

FM TUNE LEVEL CHECK



Procedure:

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

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

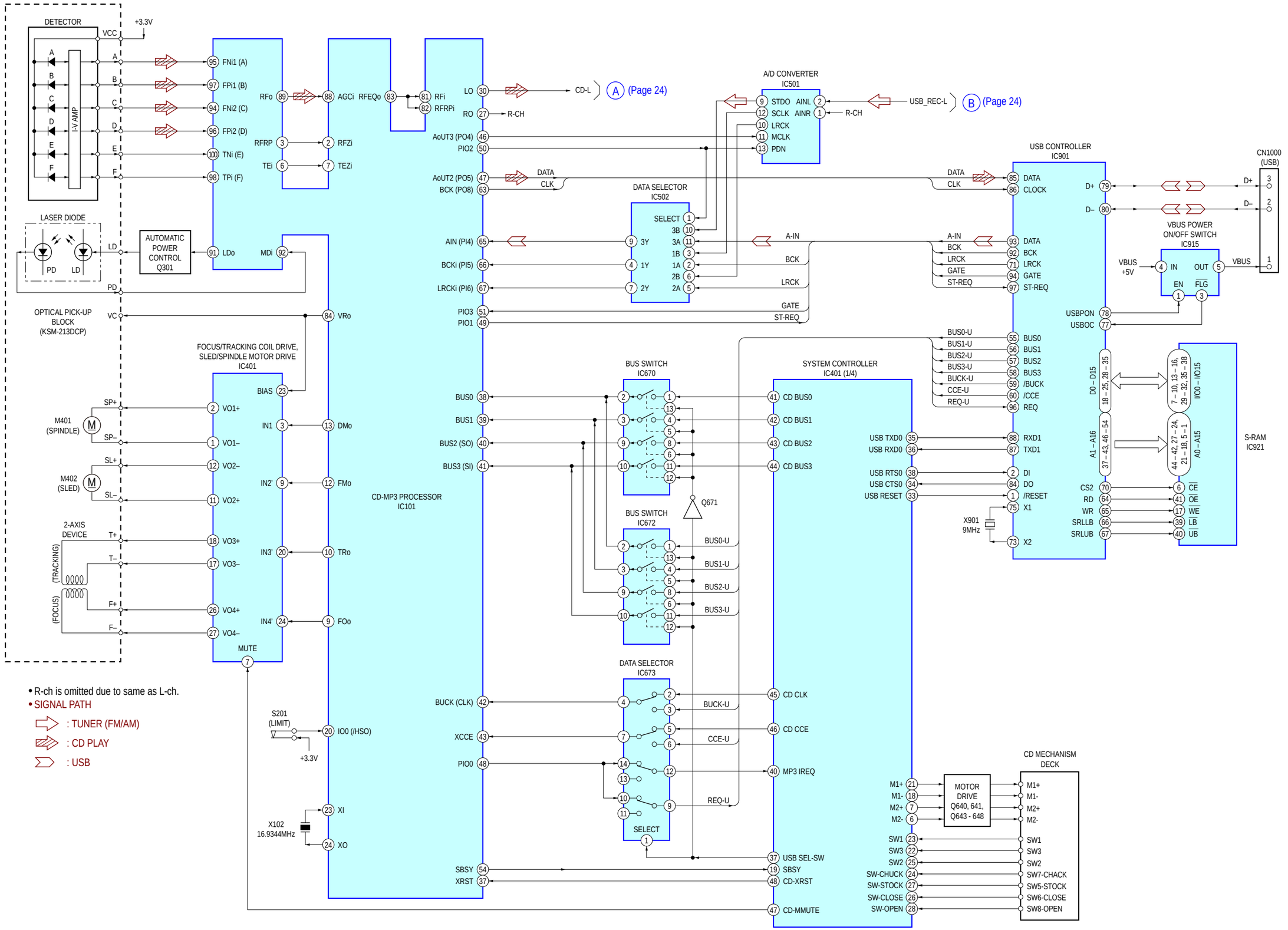
Note: Use 75 ohm coaxial cable to connect signal generator and the set.
You cannot use video cable for checking.
Use signal generator whose output impedance is 75 ohm.

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

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

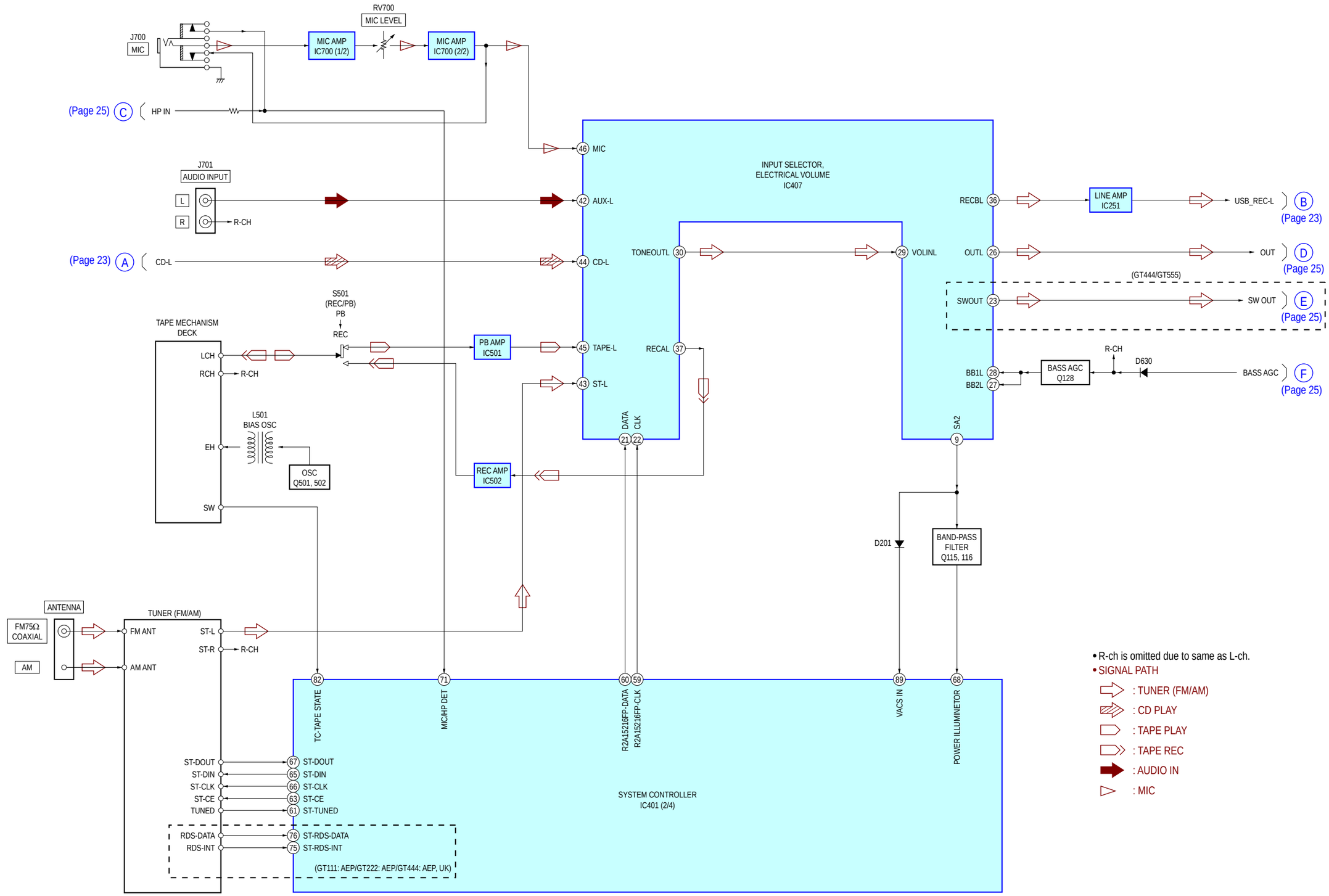
SECTION 7
DIAGRAMS

7-1. BLOCK DIAGRAM - CD SERVO, USB Section -



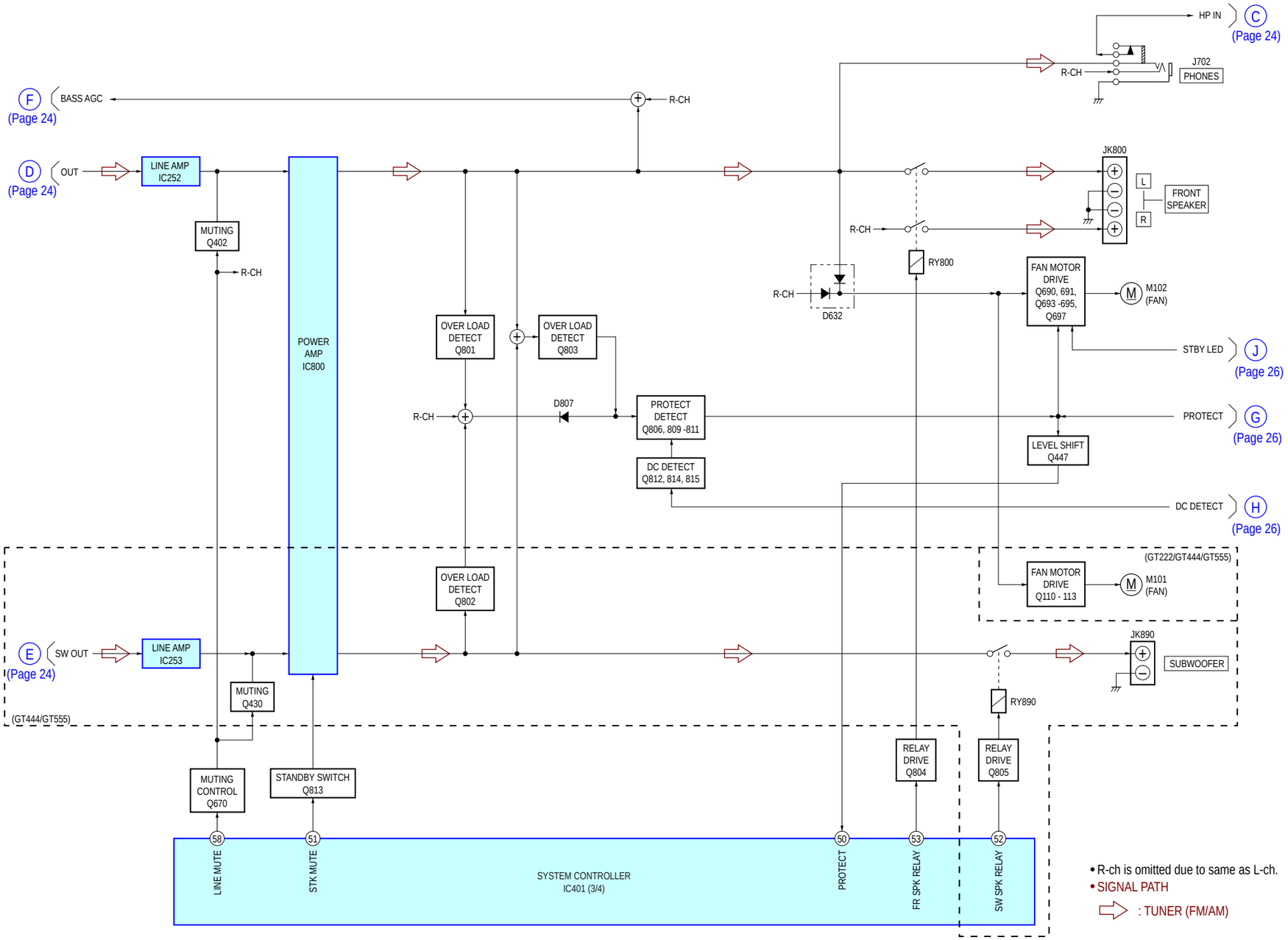
- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : TUNER (FM/AM)
  - : CD PLAY
  - : USB

7-2. BLOCK DIAGRAM - MAIN Section -



- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : TUNER (FM/AM)
  - : CD PLAY
  - : TAPE PLAY
  - : TAPE REC
  - : AUDIO IN
  - : MIC

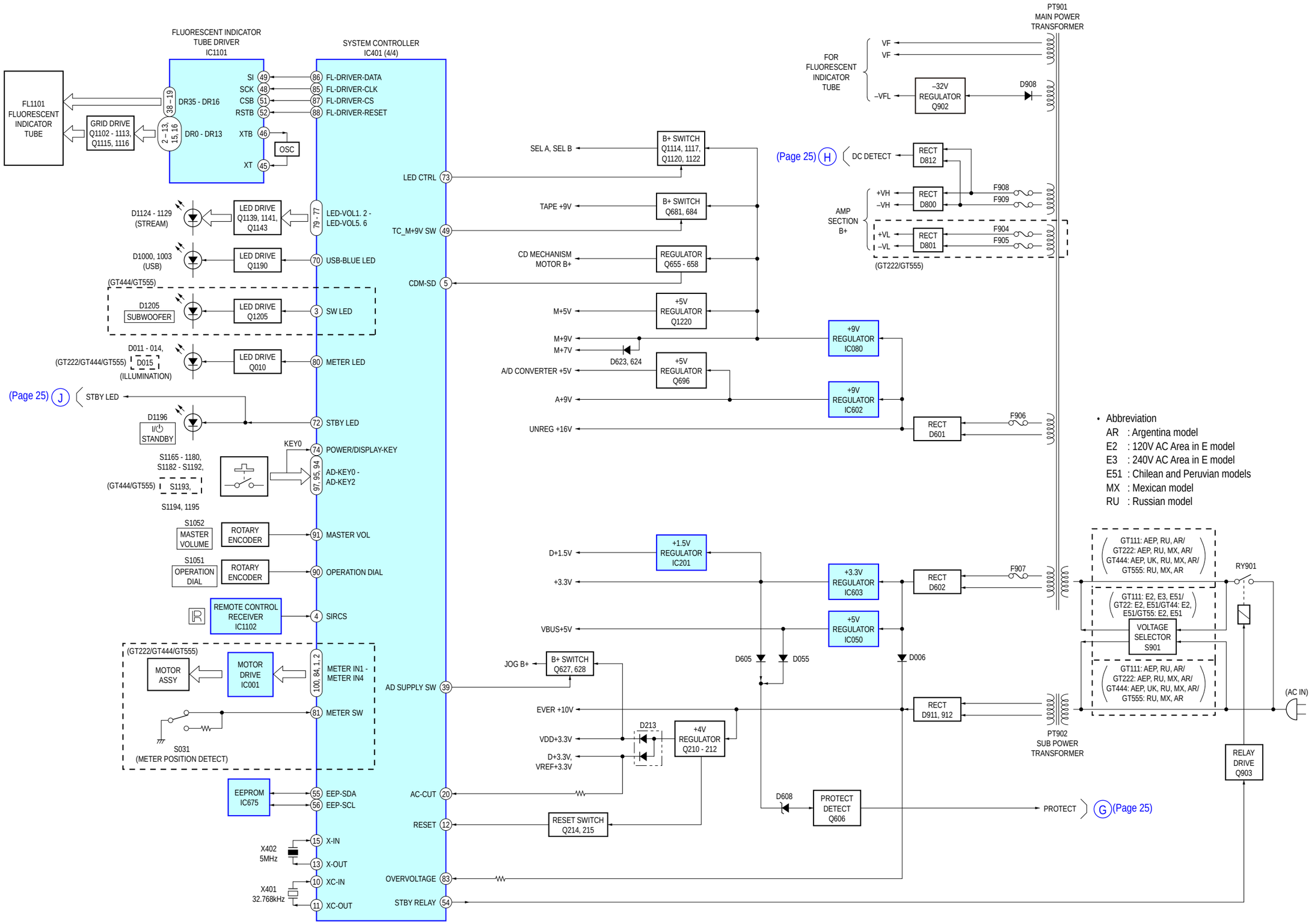
7-3. BLOCK DIAGRAM - AMP Section -



- R-ch is omitted due to same as L-ch.
- SIGNAL PATH

: TUNER (FM/AM)

7-4. BLOCK DIAGRAM - PANEL, POWER SUPPLY Section -



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

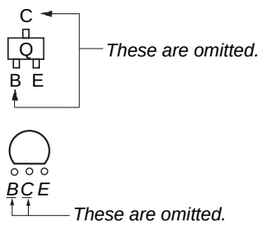
For Printed Wiring Boards.

Note:

- ○——— : Parts extracted from the component side.
- ——— : Parts extracted from the conductor side.
- △ : Internal component.
- ▭ : Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)

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

- Indication of transistor.



For Schematic Diagrams.

Note:

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

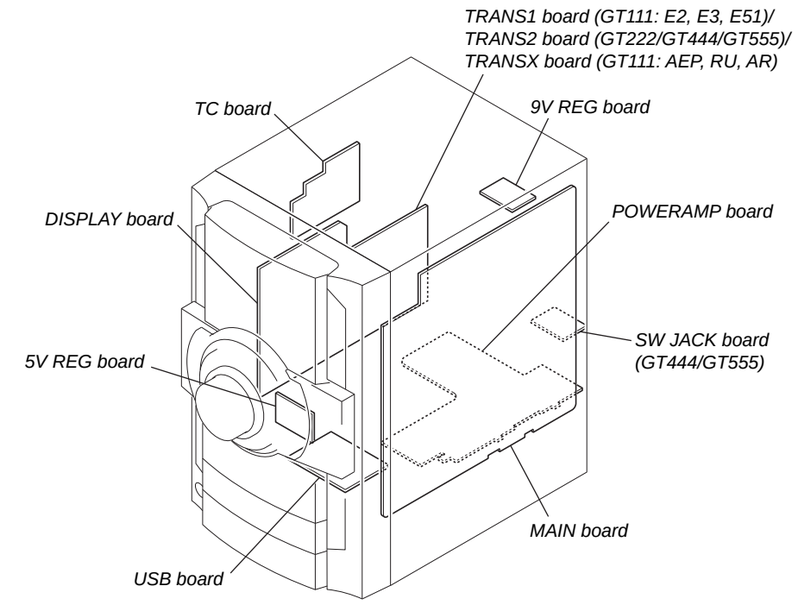
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

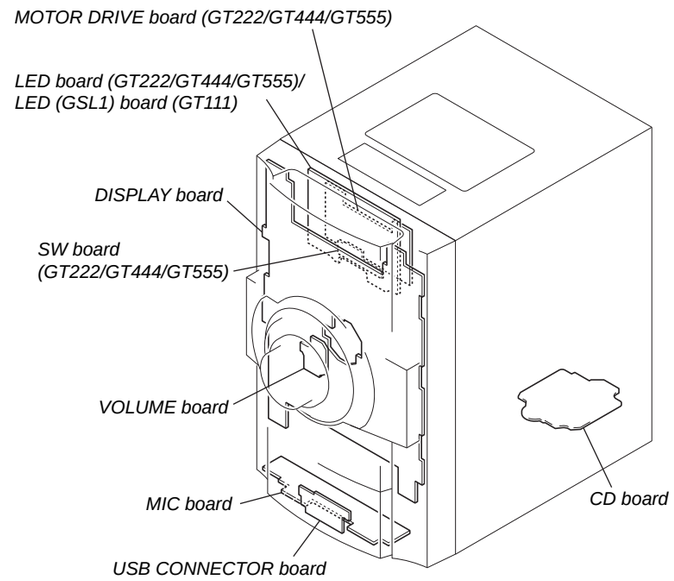
- ▬▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.

– CD Board –
no mark : CD PLAY
– TC Board –
no mark : TAPE PLAY
( ) : TAPE REC
– Other Boards –
no mark : TUNER (FM/AM)
( ) : CD PLAY
‹‹ ›› : TAPE PLAY
{ } : TAPE REC

- Voltages are taken with a VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - : TUNER (AM/FM)
  - : CD PLAY
  - : USB
  - : TAPE PLAY
  - : TAPE REC
  - : AUDIO IN
  - : MIC
- Abbreviation
  - AR : Argentina model
  - E2 : 120V AC area in E model
  - E3 : 240V AC area in E model
  - E51 : Chilean and Peruvian models
  - MX : Mexican model
  - RU : Russian model

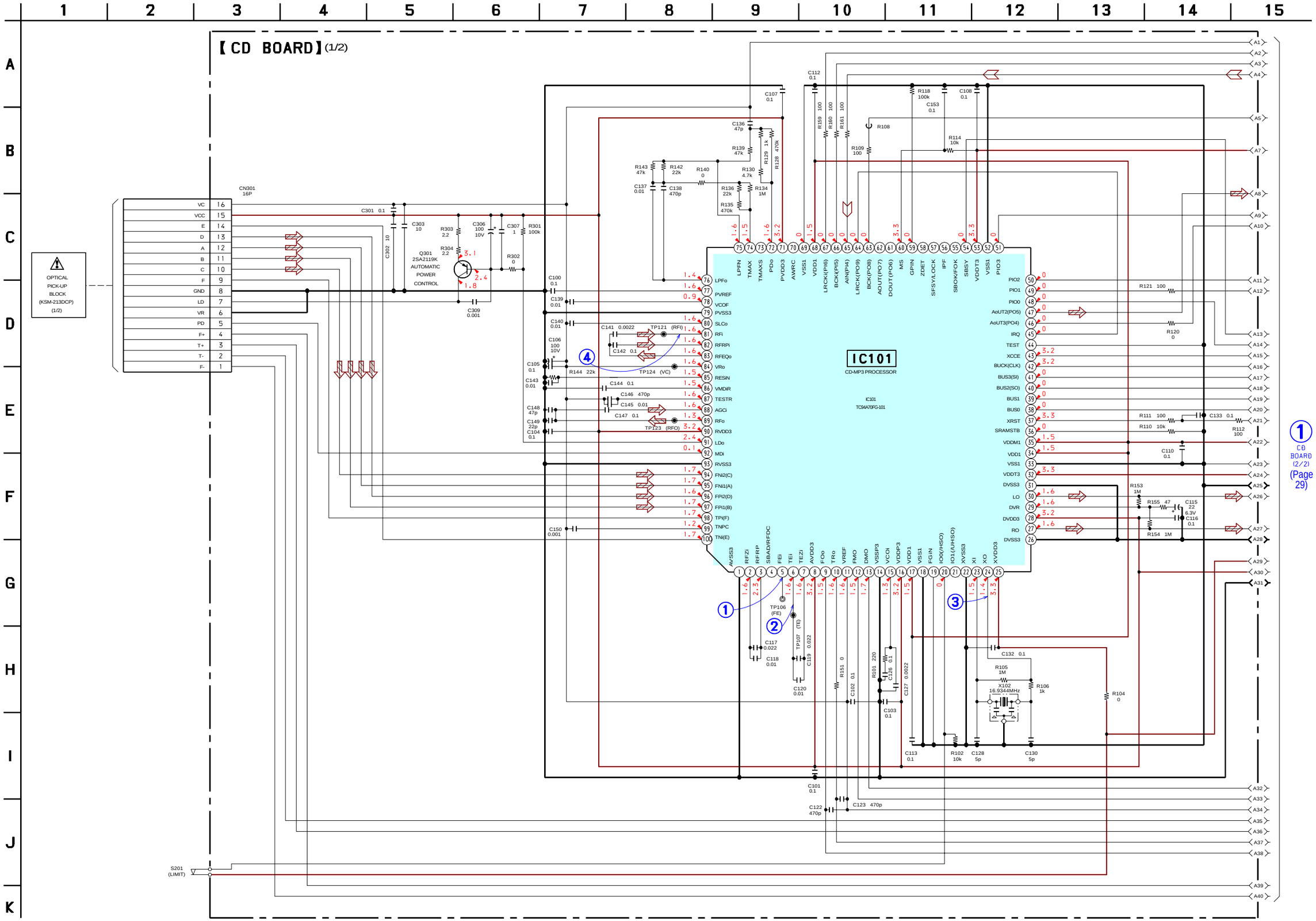
- **Circuit Boards Location**





7-5. SCHEMATIC DIAGRAM - CD Board (1/2) -

• See page 54 for Waveforms. • See page 57 for IC Pin Function Description.



7-6. SCHEMATIC DIAGRAM - CD Board (2/2) - • See page 54 for IC Block Diagrams.

【CD BOARD】(2/2)

IC502 DATA SELECTOR (IC B/D) — TC74VHC157FT

IC501 A/D CONVERTER (IC B/D) — IC501 AK5358A

IC201 +1.5V REGULATOR (IC B/D) — IC201 TK63115SCL-G@GT

IC401 FOCUS/TRACKING COIL DRIVE, SLED/SPINDLE MOTOR DRIVE — IC401 BA5826SFP (IC B/D)

OPTICAL PICK-UP BLOCK (KSM-213DCP) (2/2)

M401 (SPINDLE)

M402 (SLED)

CN201 31P

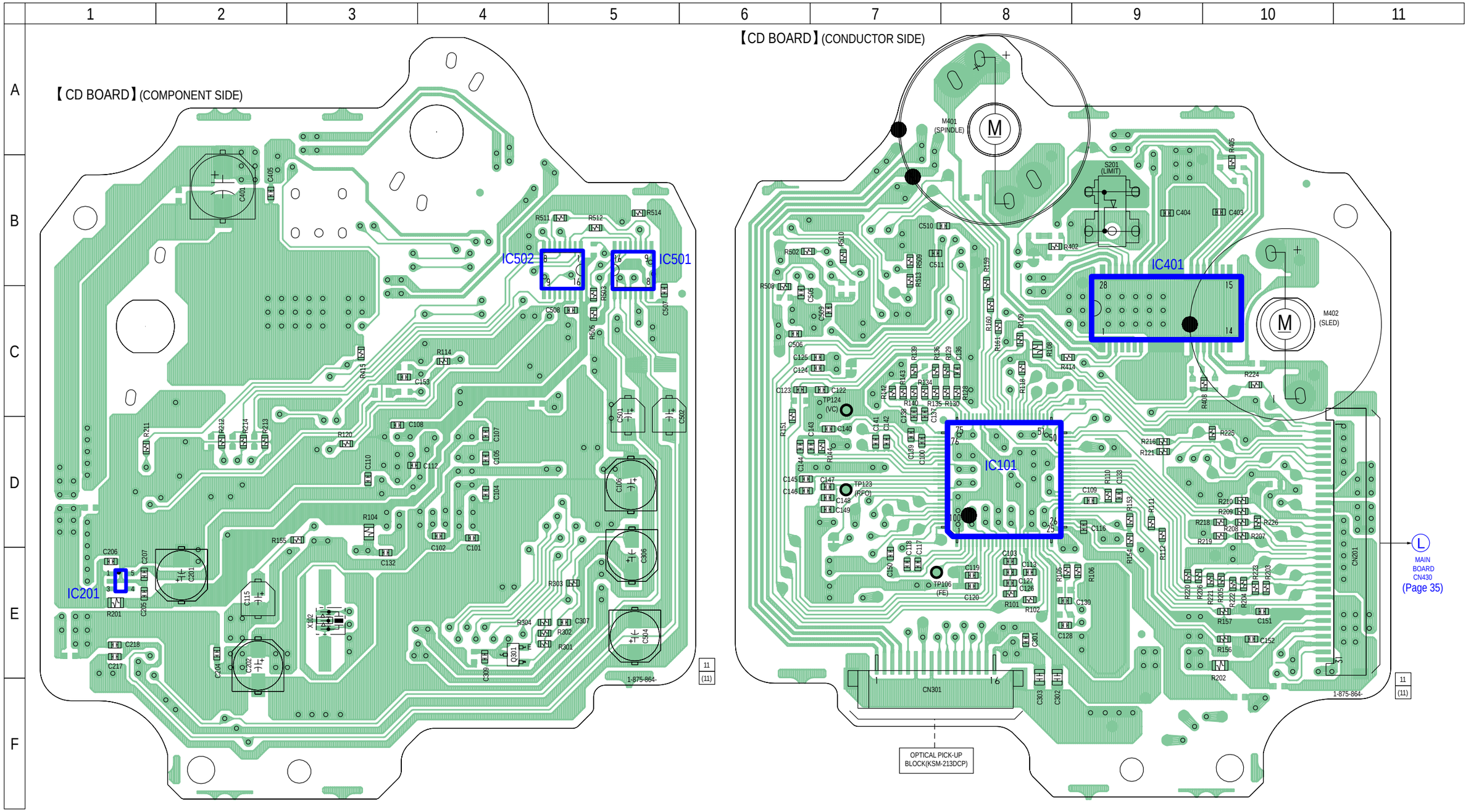
1	DATA
2	CLK
3	GATE
4	ST_REQ
5	AIN
6	BCK
7	LRCK
8	M-MUTE
9	MGND
10	VM(7V)
11	DVDD(3.3V)
12	D-OUT
13	DGND
14	SBSY
15	REQ
16	/CCE
17	BUCK
18	BUS3
19	BUS2
20	BUS1
21	BUS0
22	/RST
23	AGND
24	L-OUT
25	DACGND
26	R-OUT
27	AVDD(3.3V)
28	L-IN
29	ADCGND
30	R-IN
31	ADCVDD(5V)

(1) CD BOARD (1/2) (Page 28)

(L) MAIN BOARD (4/4) CN430 (Page 39)

7-7. PRINTED WIRING BOARD - CD Board -

• See page 27 for Circuit Boards Location. • : Uses unleaded solder.

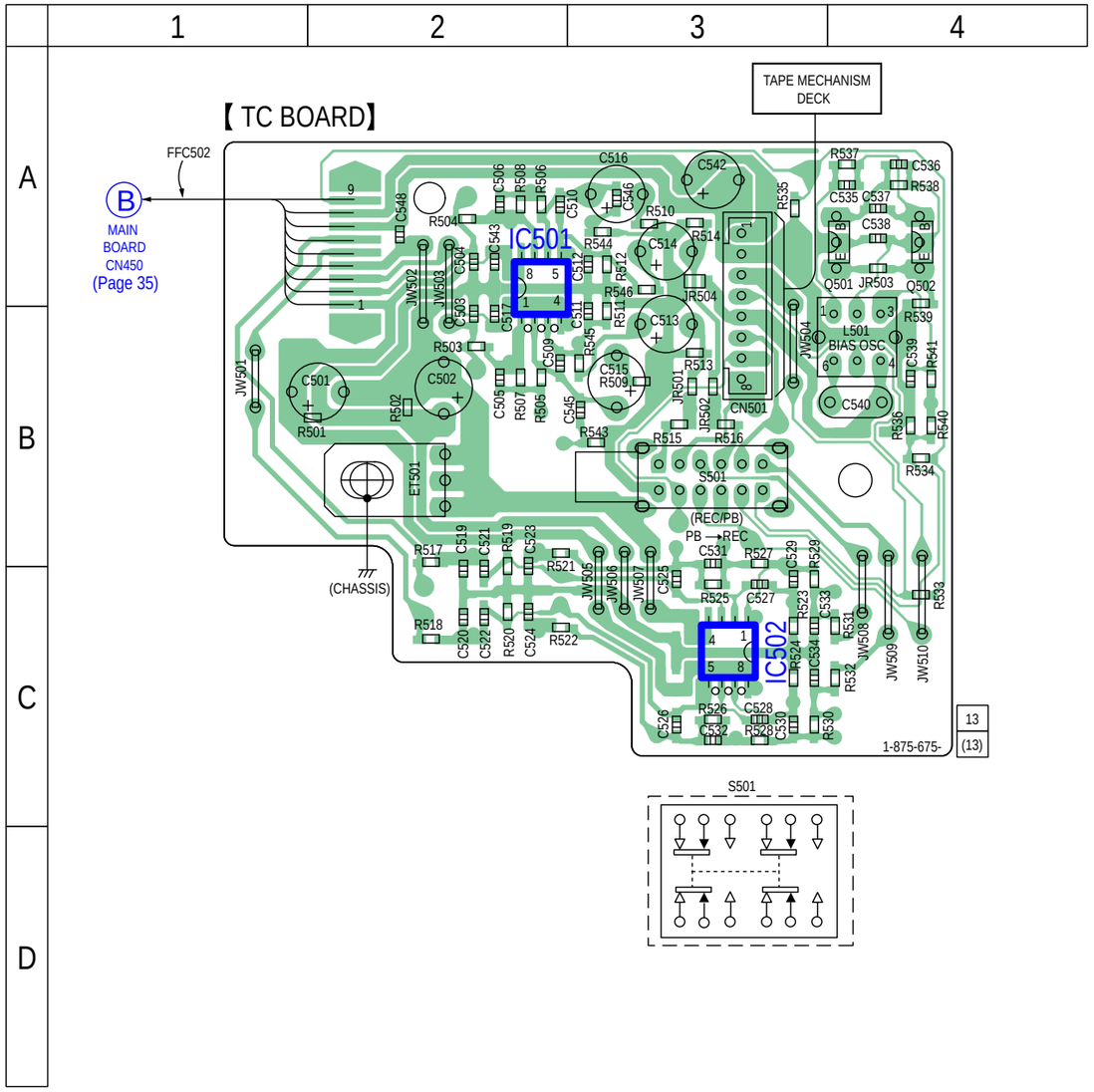


- **Semiconductor Location**

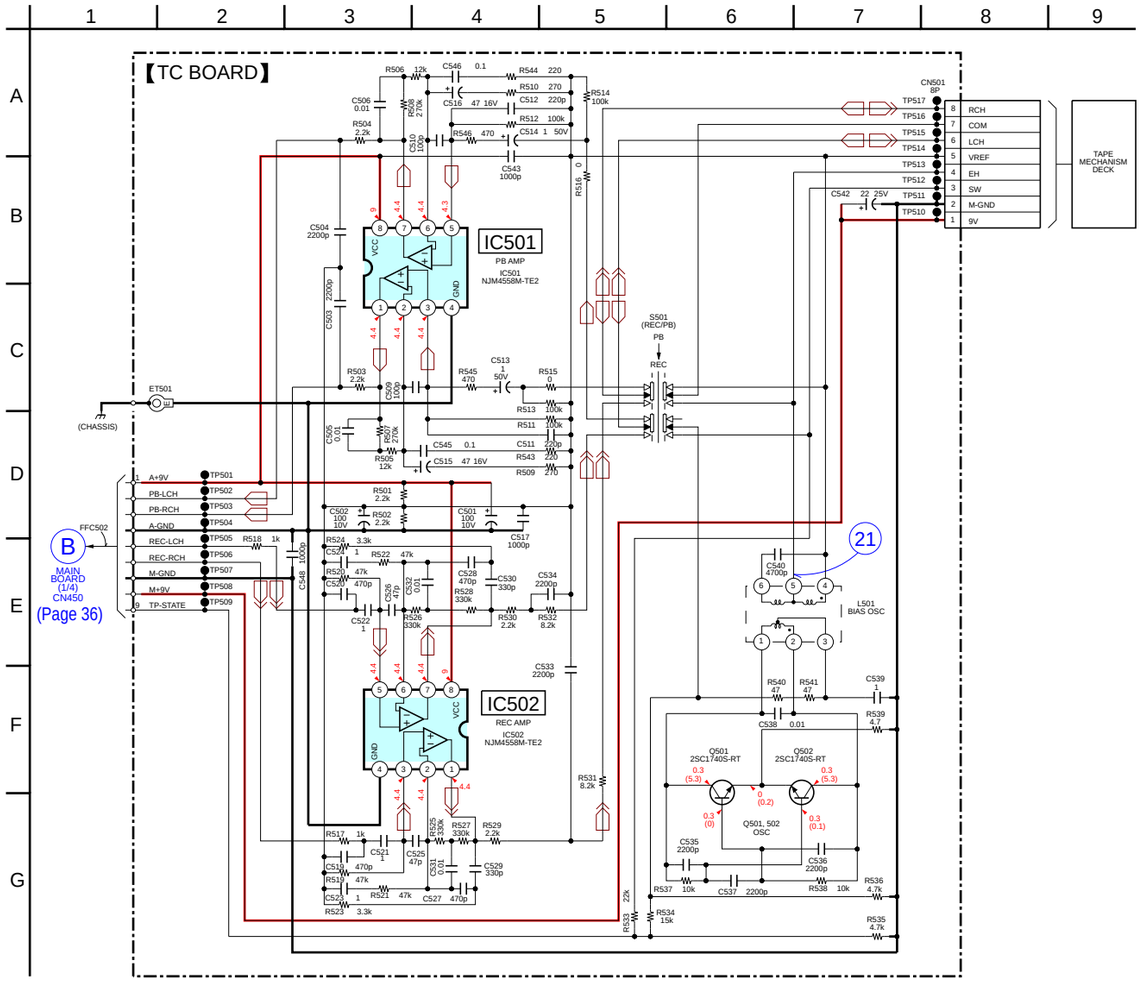
Ref. No.	Location
IC101	D-8
IC201	E-1
IC401	C-9
IC501	B-5
IC502	B-5
Q301	E-4

7-8. PRINTED WIRING BOARD - TC Board -

• See page 27 for Circuit Boards Location. • : Uses unleaded solder.



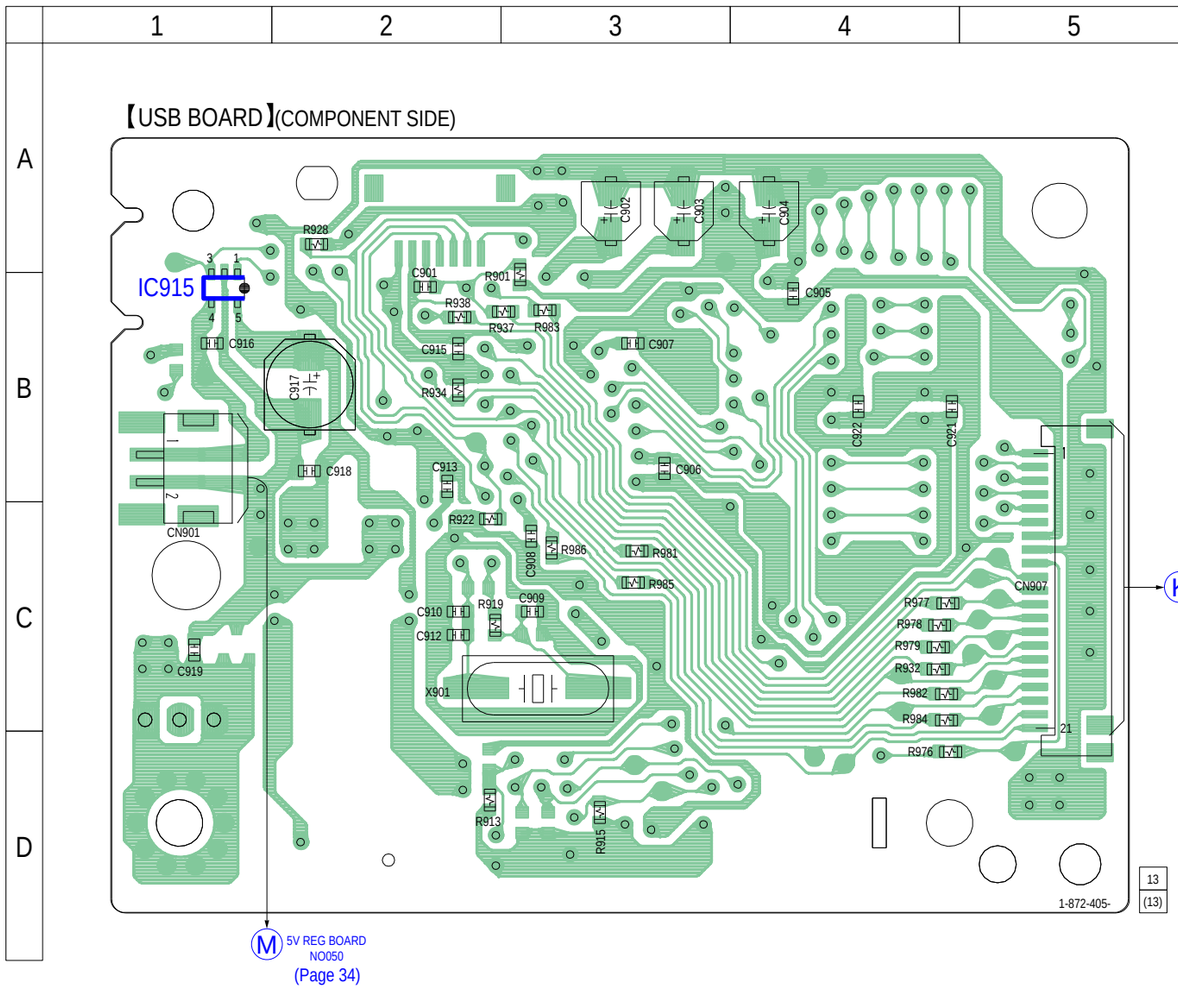
7-9. SCHEMATIC DIAGRAM - TC Board -



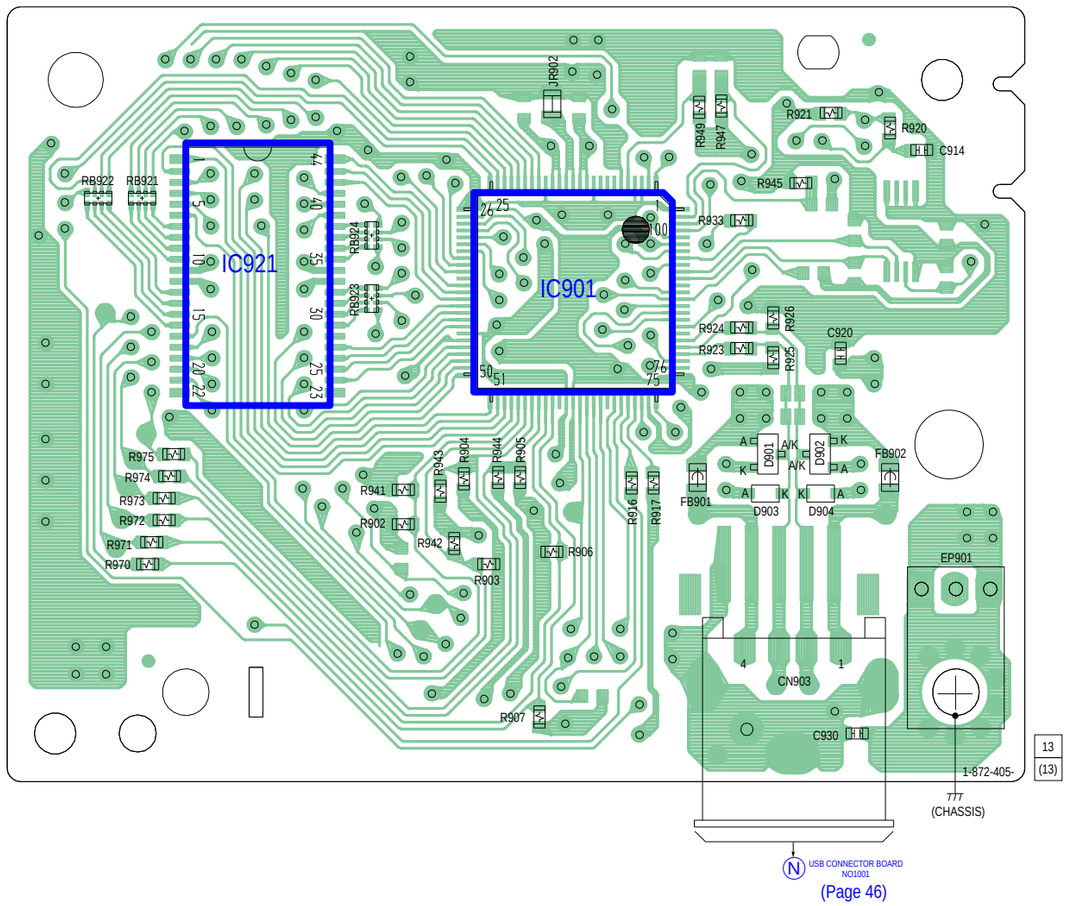
7-10. PRINTED WIRING BOARD - USB Board -

• See page 27 for Circuit Boards Location. • : Uses unleaded solder.

【USB BOARD】(COMPONENT SIDE)



【USB BOARD】(CONDUCTOR SIDE)

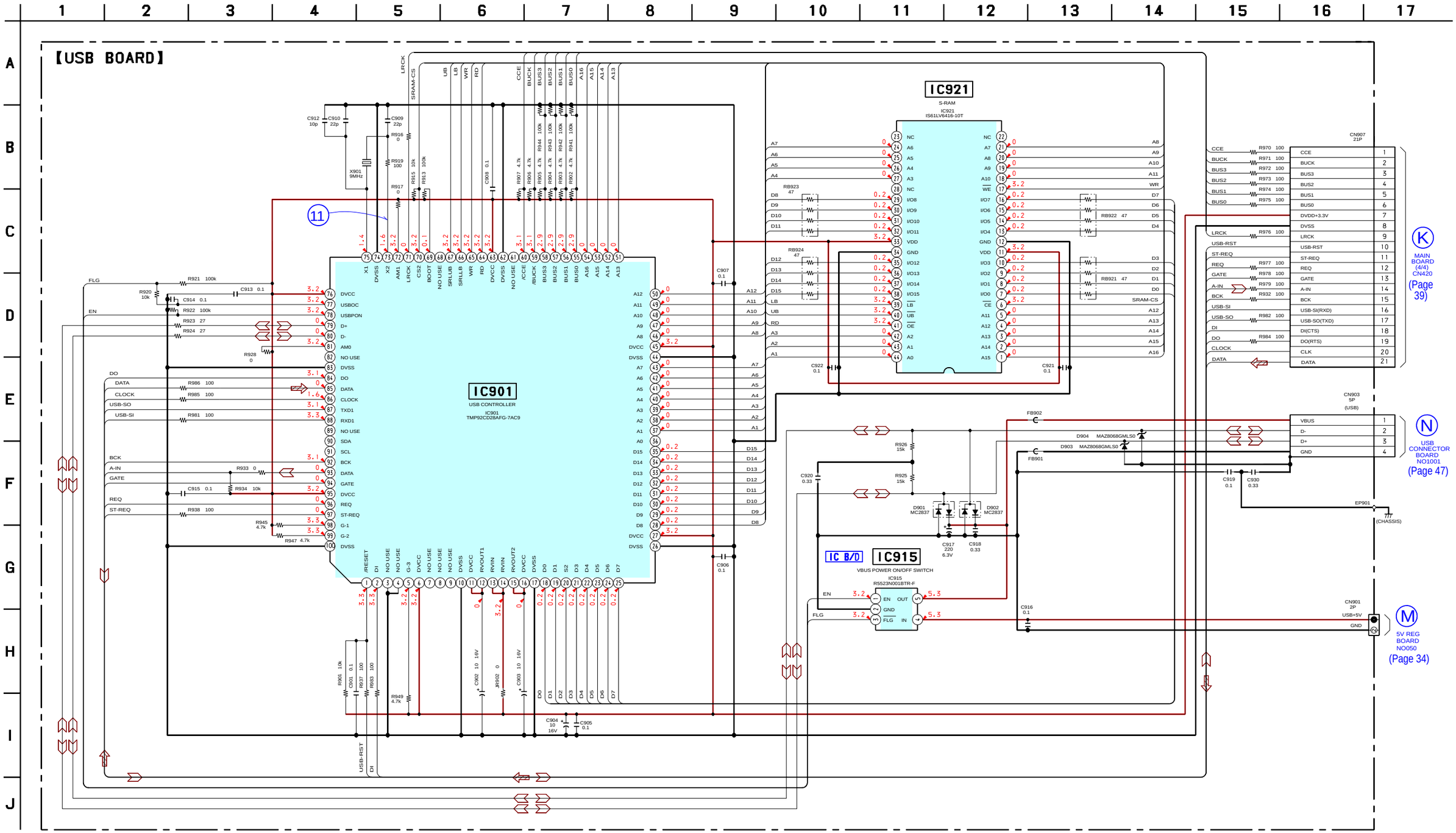


- **Semiconductor Location**

Ref. No.	Location
D901	C-9
D902	C-10
D903	C-9
D904	C-10
IC901	B-8
IC915	B-1
IC921	B-7

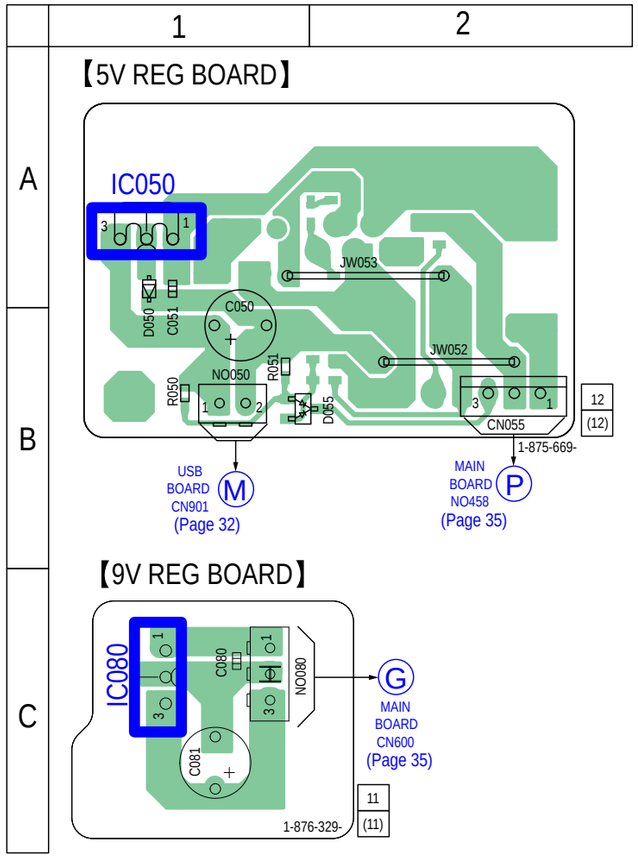
7-11. SCHEMATIC DIAGRAM - USB Board -

• See page 54 for Waveforms. • See page 54 for IC Block Diagrams. • See page 57 for IC Pin Function Description.

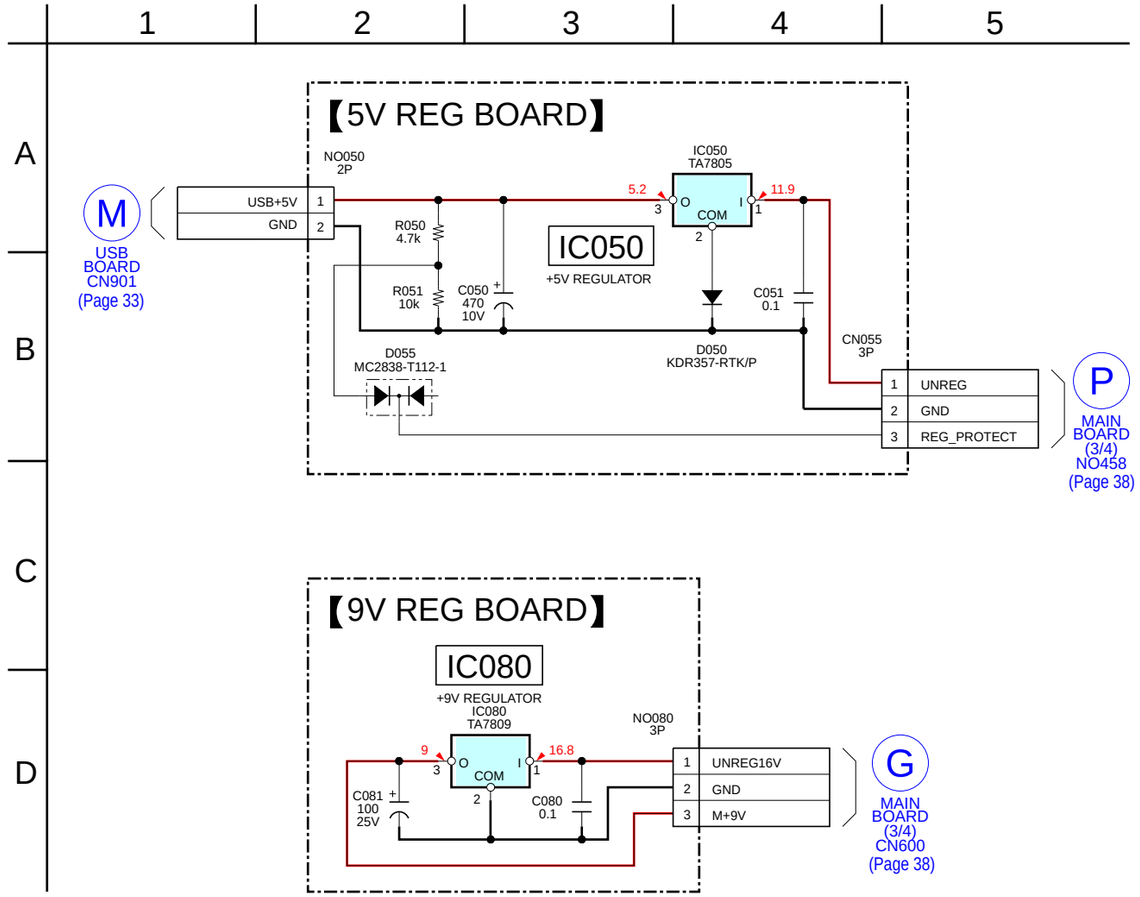


7-12. PRINTED WIRING BOARDS - REG Section -

• See page 27 for Circuit Boards Location. • : Uses unleaded solder.

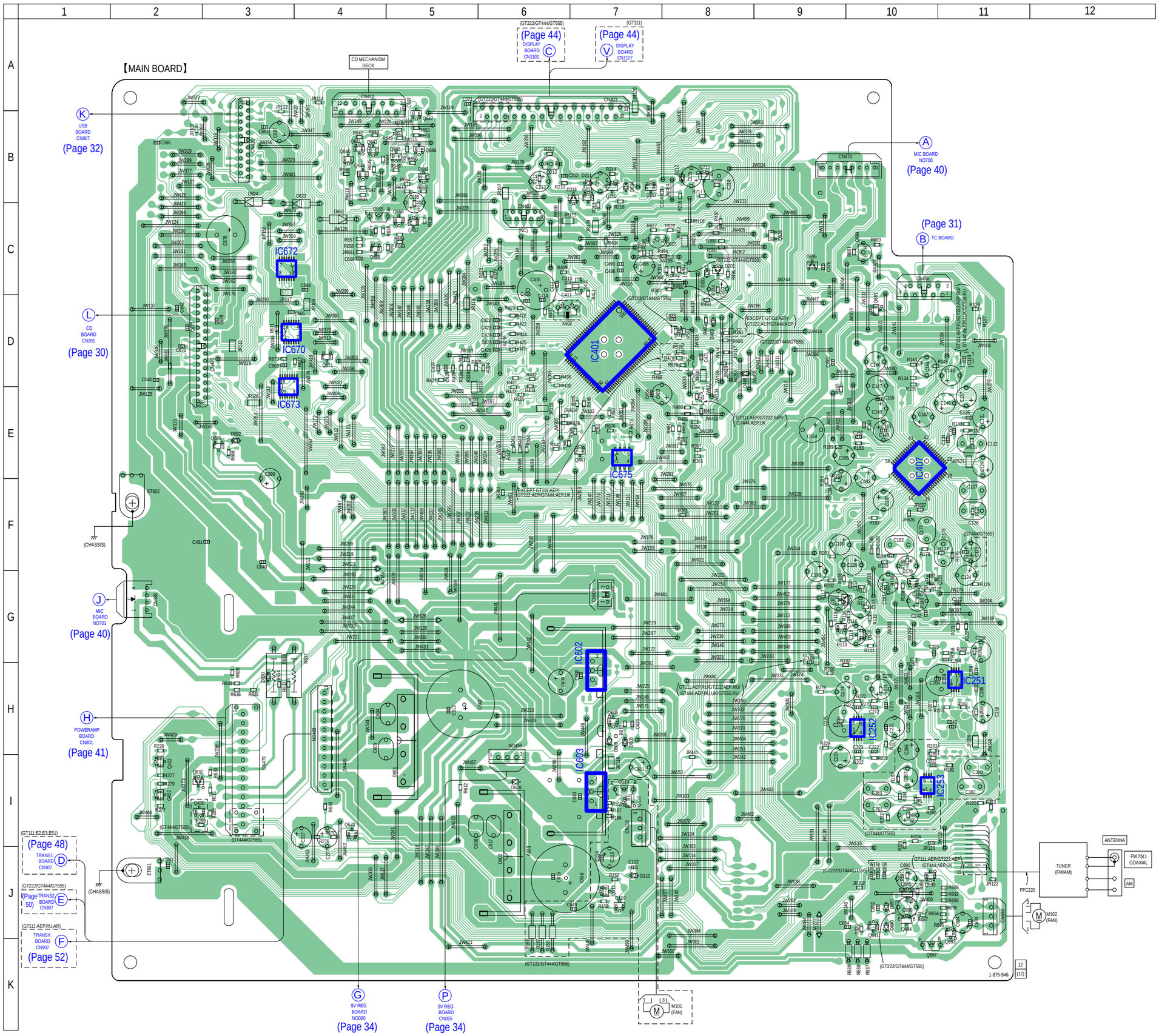


7-13. SCHEMATIC DIAGRAM - REG Section -



7-14. PRINTED WIRING BOARD - MAIN Board -

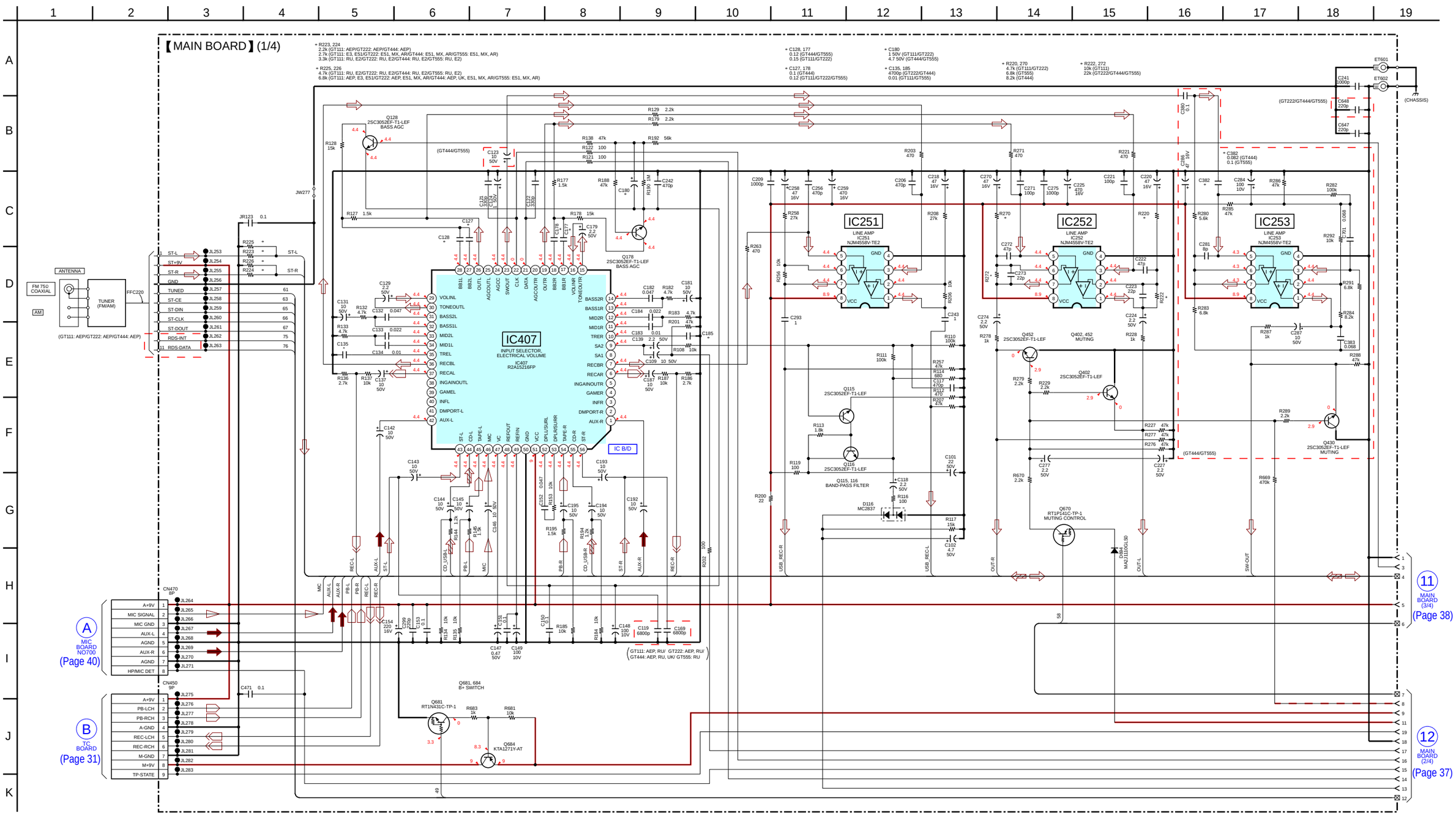
• See page 27 for Circuit Boards Location. • : Uses unleaded solder.



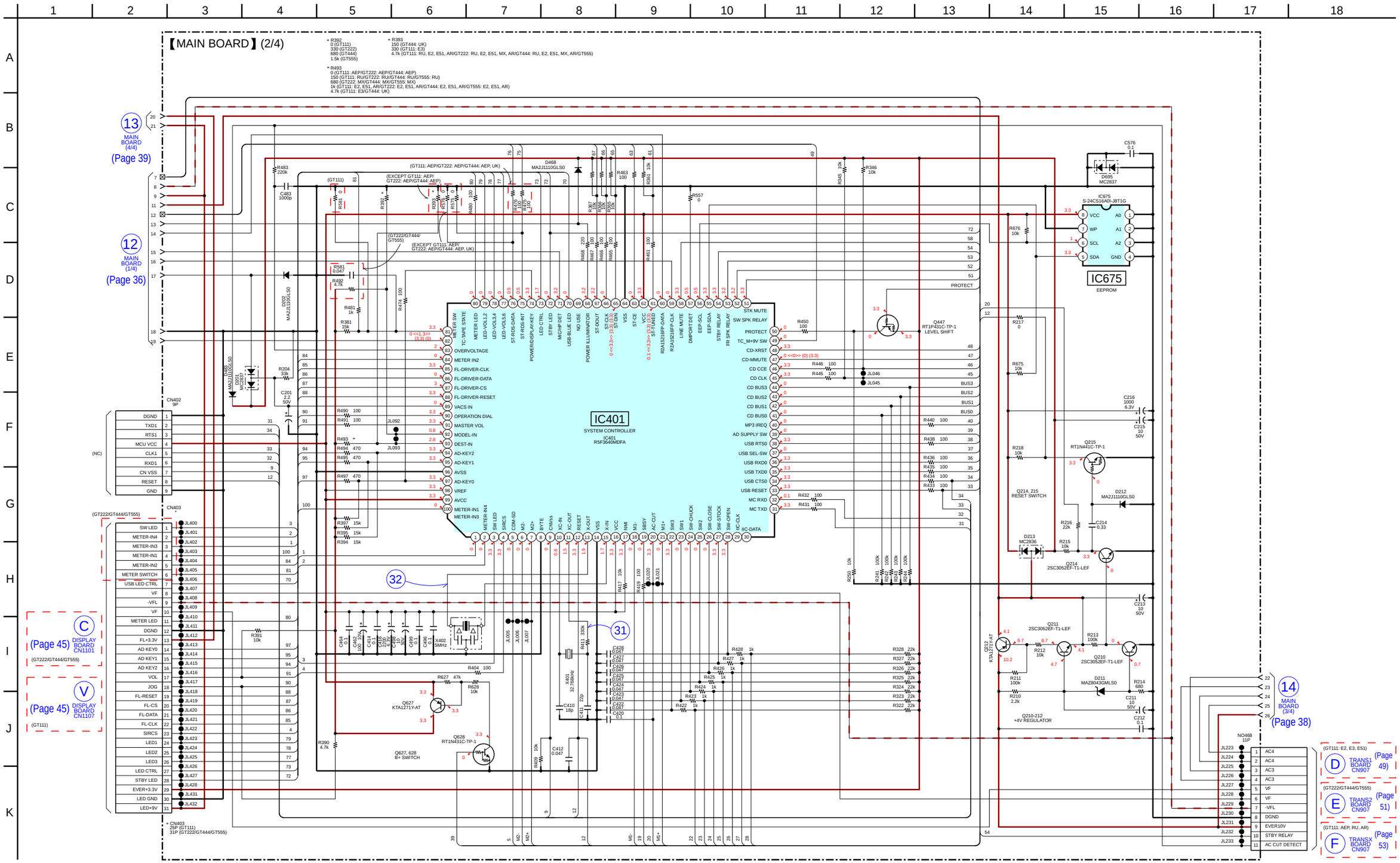
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D110	J-7	Q113	I-7
D116	G-9	Q115	G-10
D201	C-8	Q116	G-9
D202	C-8	Q128	G-10
D211	B-7	Q178	G-10
D212	B-8	Q210	B-7
D213	B-7	Q211	B-7
D468	D-8	Q212	B-6
D483	D-8	Q214	B-7
D601	H-5	Q215	B-8
D602	J-6	Q402	I-2
D605	H-7	Q430	I-2
D608	H-7	Q447	E-7
D623	C-4	Q452	I-2
D624	B-3	Q606	H-7
D628	I-6	Q627	C-7
D630	H-3	Q628	C-9
D632	I-2	Q640	B-4
D651	C-4	Q641	B-4
D690	J-10	Q643	B-4
D691	J-10	Q644	B-4
D692	E-3	Q645	B-5
D694	B-7	Q646	B-5
D695	C-9	Q647	B-5
		Q648	B-5
IC251	H-11	Q655	C-4
IC252	H-10	Q656	C-5
IC253	I-10	Q657	C-5
IC401	D-7	Q658	C-4
IC407	E-10	Q670	I-4
IC602	H-7	Q671	D-4
IC603	I-7	Q681	D-10
IC670	D-3	Q684	C-10
IC672	C-3	Q690	J-10
IC673	D-3	Q691	J-10
IC675	E-7	Q693	J-11
		Q694	J-10
Q110	J-7	Q695	J-10
Q111	J-7	Q696	E-3
Q112	I-7	Q697	K-10

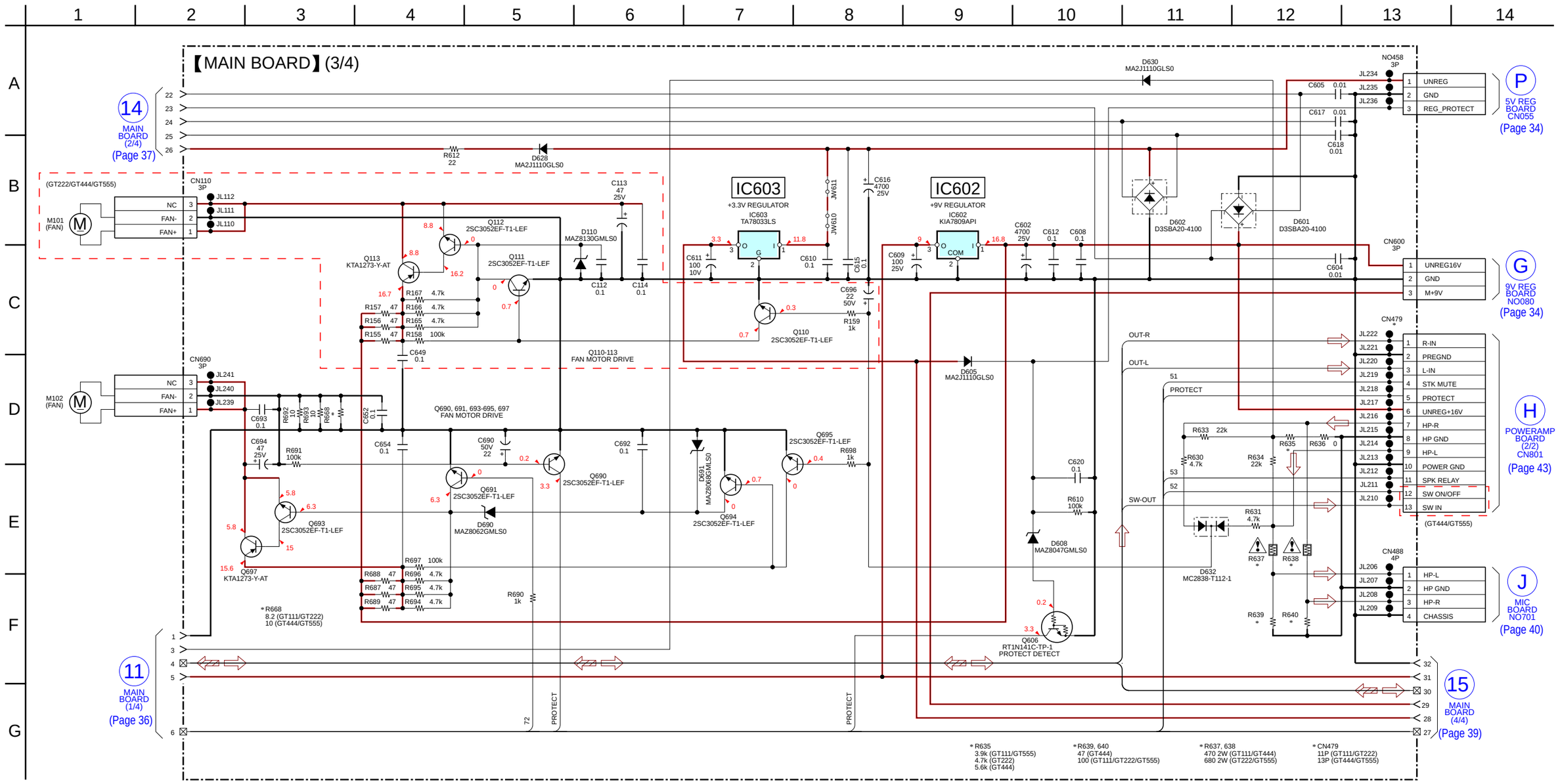
7-15. SCHEMATIC DIAGRAM - MAIN Board (1/4) - • See page 54 for IC Block Diagrams.



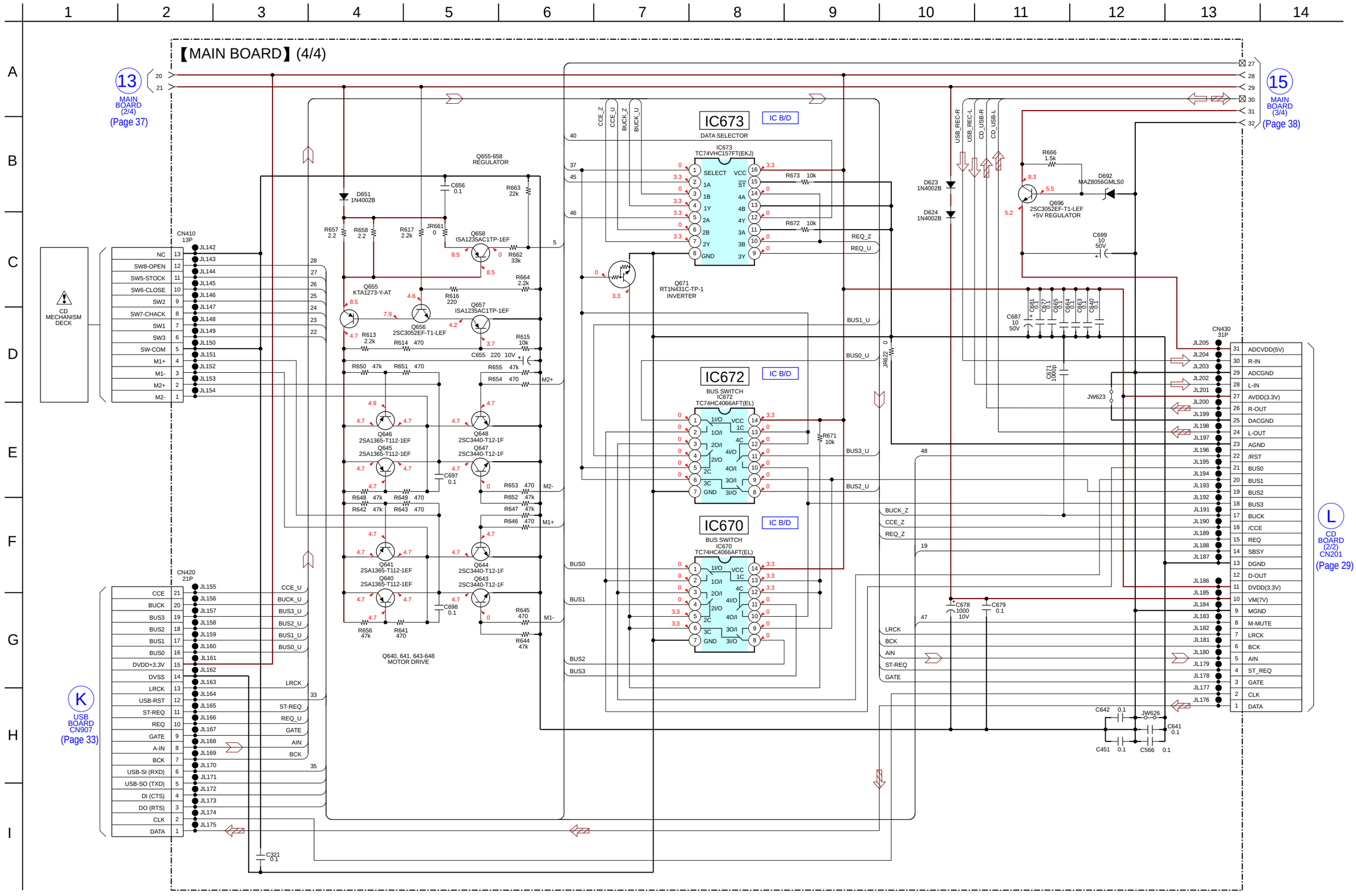
7-16. SCHEMATIC DIAGRAM - MAIN Board (2/4) - • See page 54 for Waveforms. • See page 57 for IC Pin Function Description.



7-17. SCHEMATIC DIAGRAM - MAIN Board (3/4) -

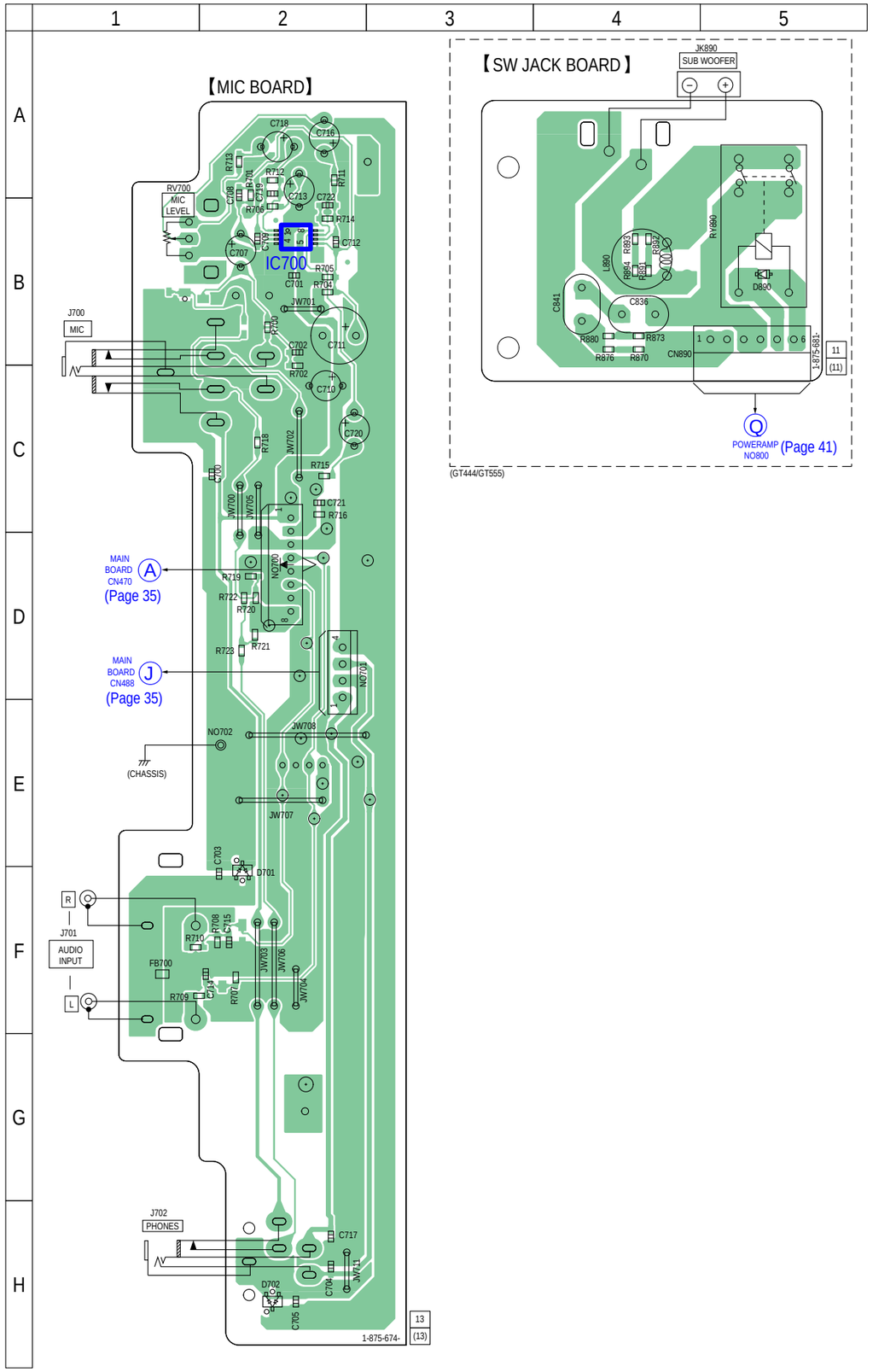


7-18. SCHEMATIC DIAGRAM - MAIN Board (4/4) - • See page 54 for IC Block Diagrams.

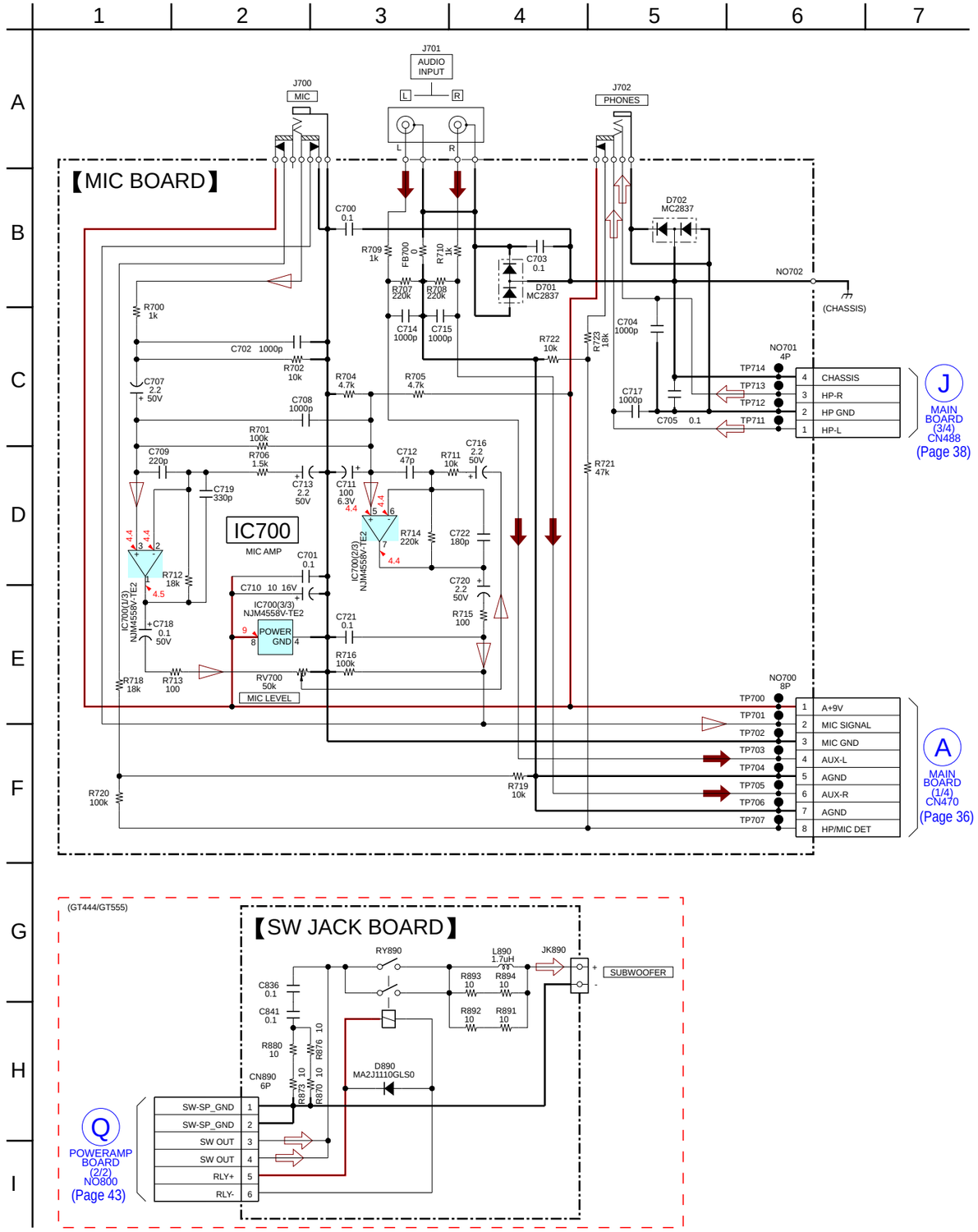


7-19. PRINTED WIRING BOARDS - JACK Section -

• See page 27 for Circuit Boards Location. • : Uses unleaded solder.

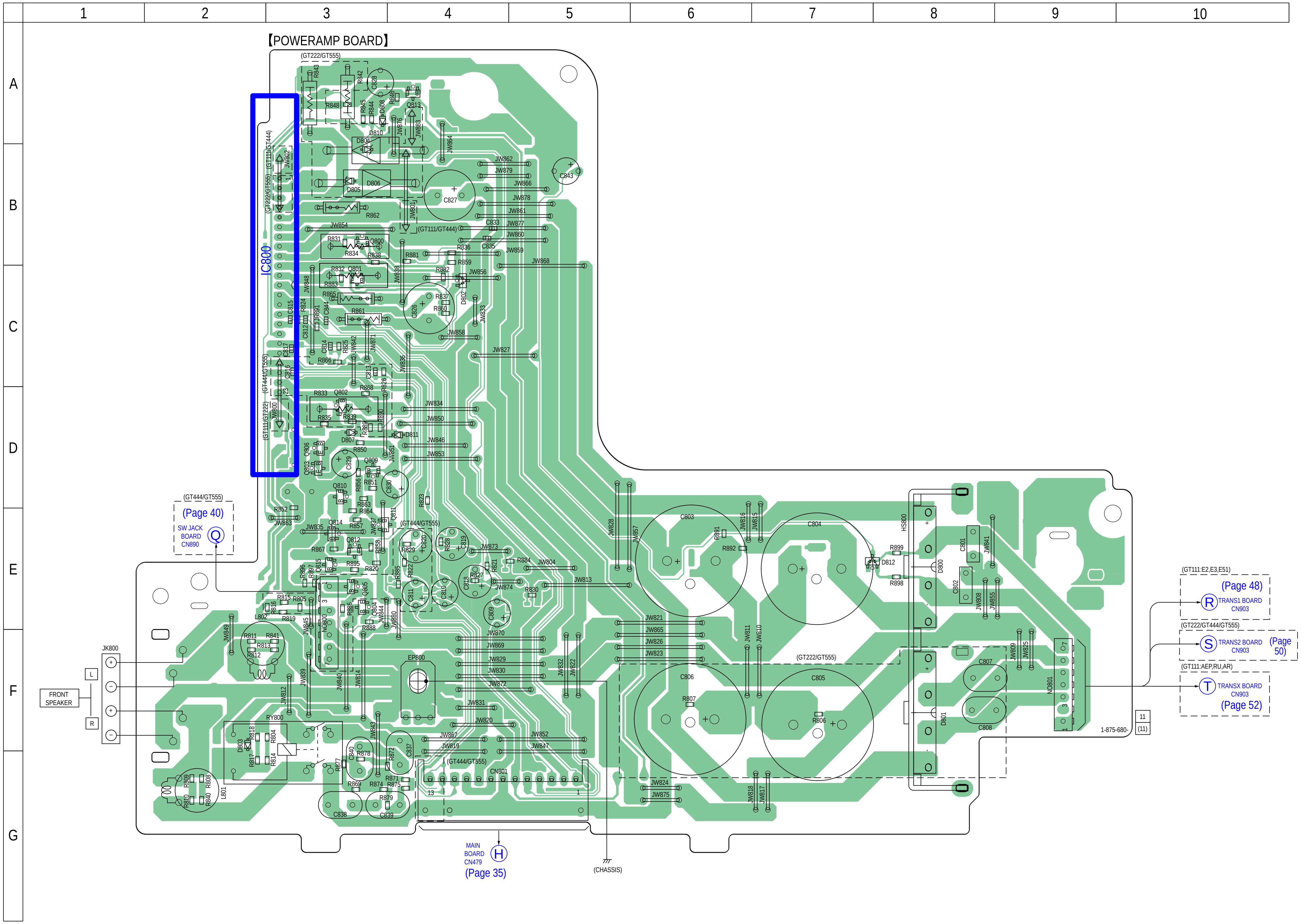


7-20. SCHEMATIC DIAGRAM - JACK Section -



7-21. PRINTED WIRING BOARD - POWERAMP board -

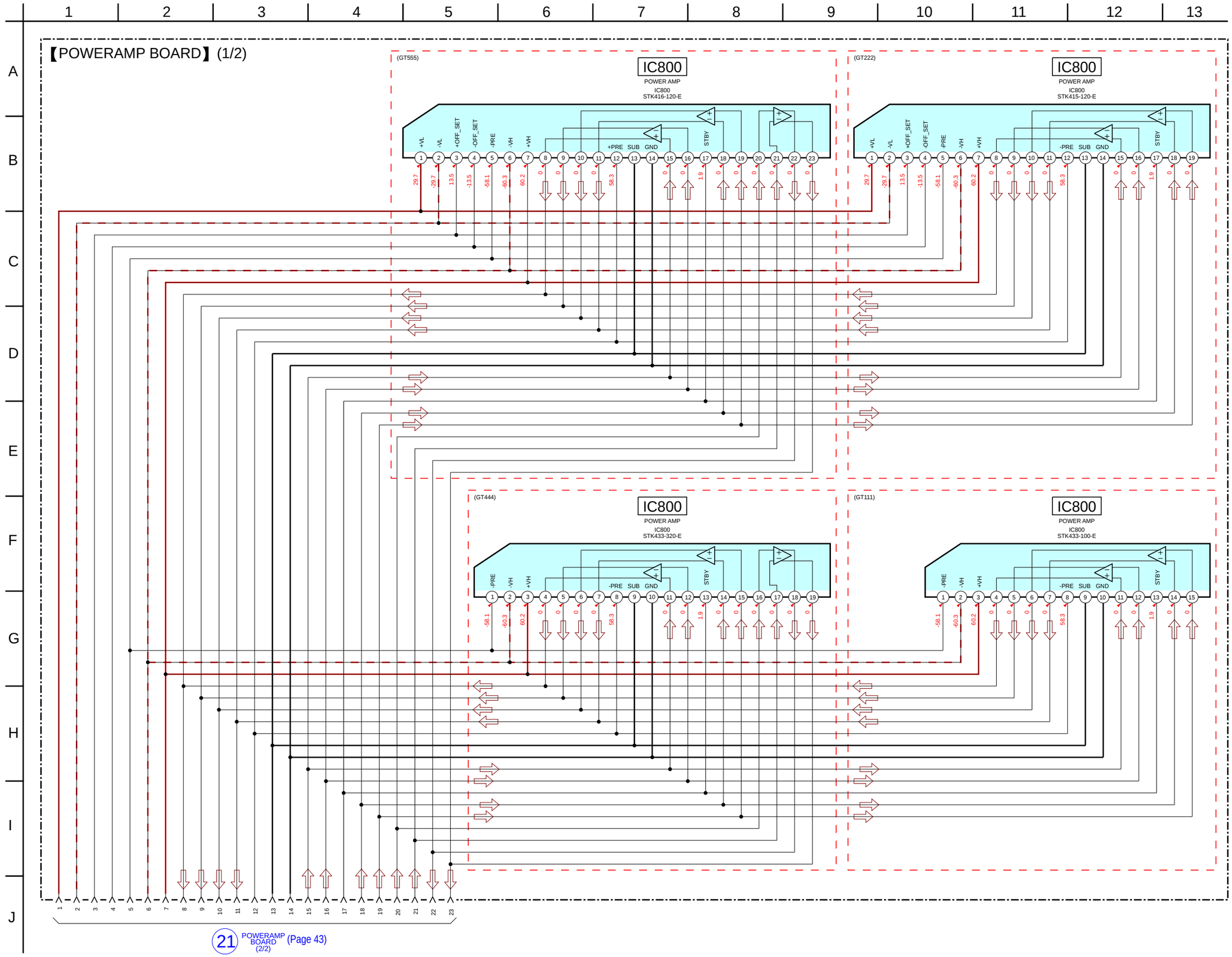
• See page 27 for Circuit Boards Location. • : Uses unleaded solder.



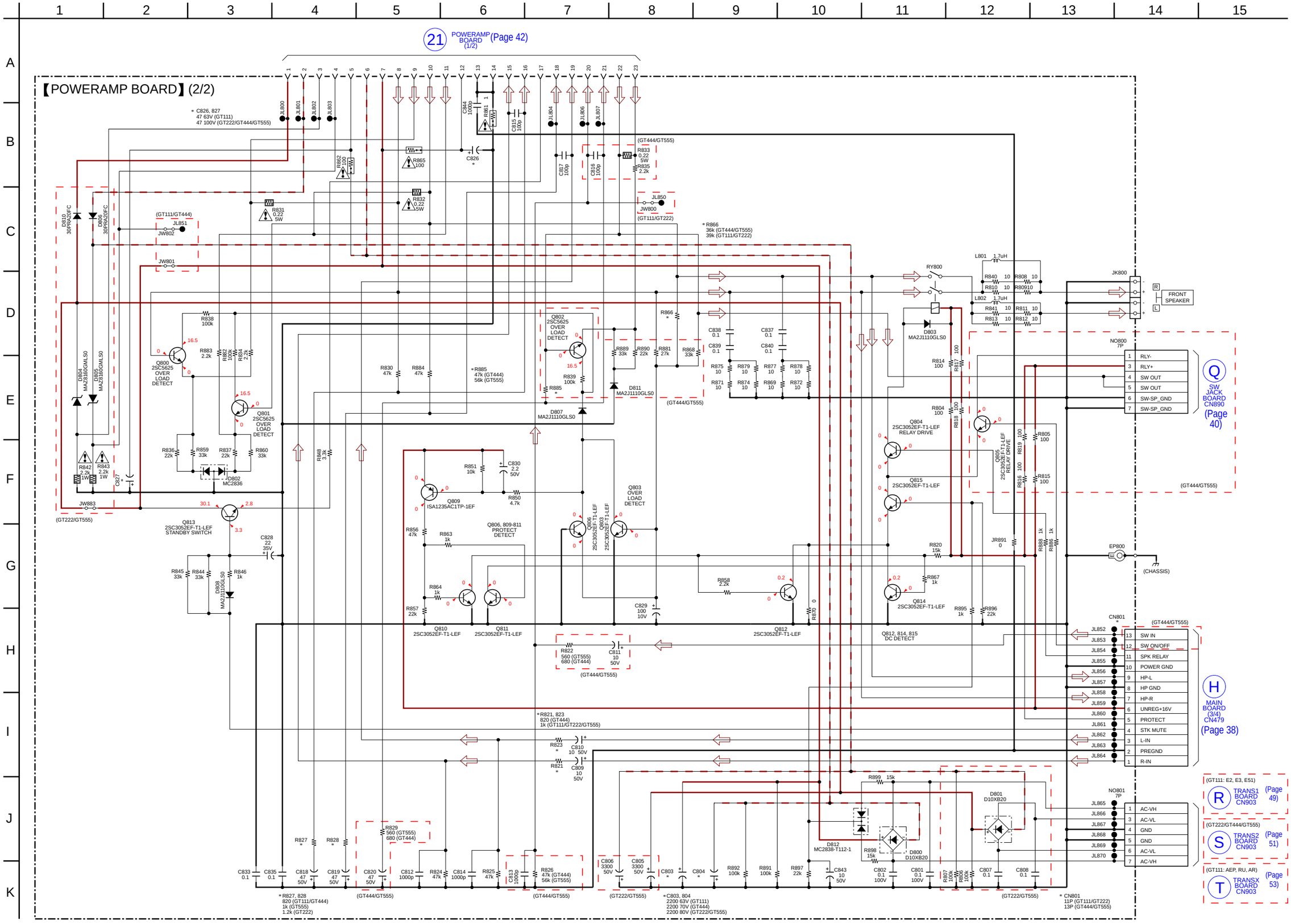
• **Semiconductor Location**

Ref. No.	Location
D800	E-8
D801	F-8
D802	C-4
D803	F-2
D804	B-3
D805	B-3
D806	B-3
D807	D-3
D808	A-3
D810	B-3
D811	D-4
D812	E-7
IC800	C-3
Q800	B-3
Q801	C-3
Q802	D-3
Q803	D-3
Q804	E-3
Q805	E-3
Q806	D-3
Q809	D-3
Q810	D-3
Q811	E-3
Q812	E-3
Q813	A-4
Q814	E-3
Q815	E-3

7-22. SCHEMATIC DIAGRAM - POWERAMP Board (1/2) -



7-23. SCHEMATIC DIAGRAM - POWERAMP Board (2/2) -

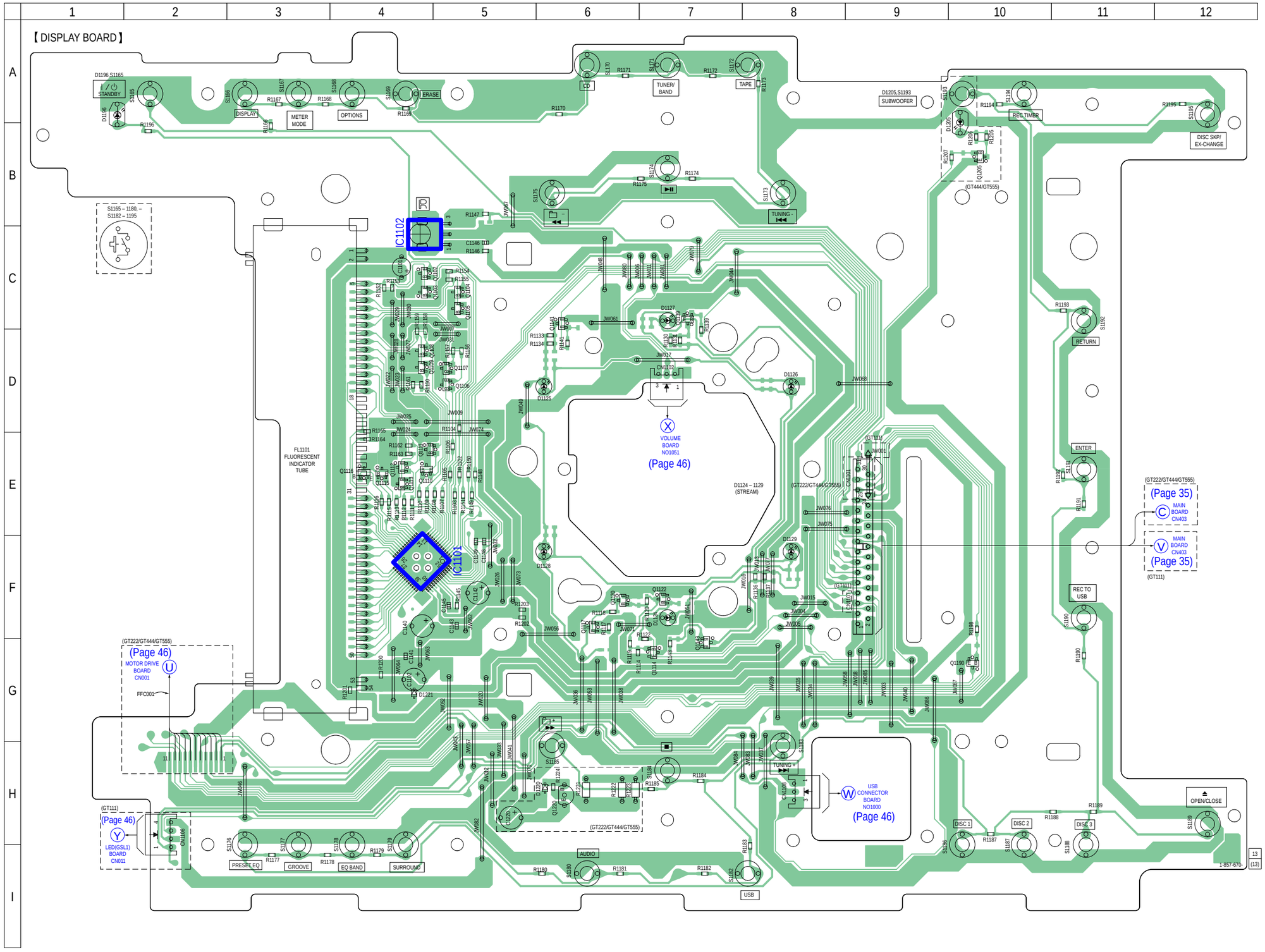


7-24. PRINTED WIRING BOARD - DISPLAY Board -

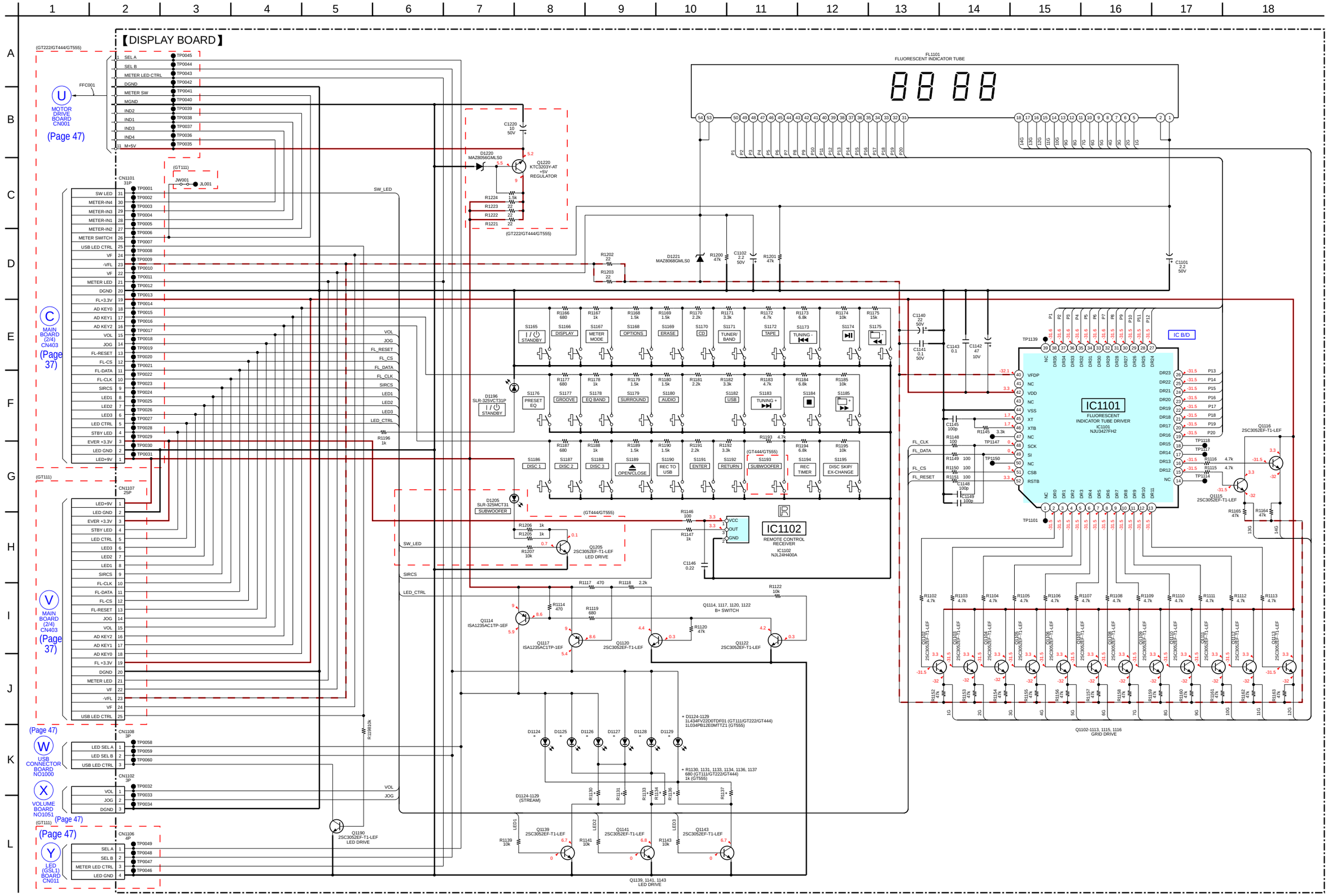
• See page 27 for Circuit Boards Location. • : Uses unleaded solder.

• **Semiconductor Location**

Ref. No.	Location
D1124	F-7
D1125	D-6
D1126	D-8
D1127	C-7
D1128	F-6
D1129	F-8
D1196	A-1
D1205	A-10
D1220	H-6
D1221	G-4
IC1101	F-4
IC1102	C-4
Q1102	C-4
Q1103	C-4
Q1104	C-5
Q1105	C-5
Q1106	D-5
Q1107	D-5
Q1108	D-4
Q1109	D-4
Q1110	E-4
Q1111	E-4
Q1112	E-4
Q1113	E-4
Q1114	G-7
Q1115	E-4
Q1116	E-4
Q1117	F-6
Q1120	F-6
Q1122	F-7
Q1139	C-7
Q1141	C-6
Q1143	G-7
Q1190	G-10
Q1205	B-10
Q1220	H-6

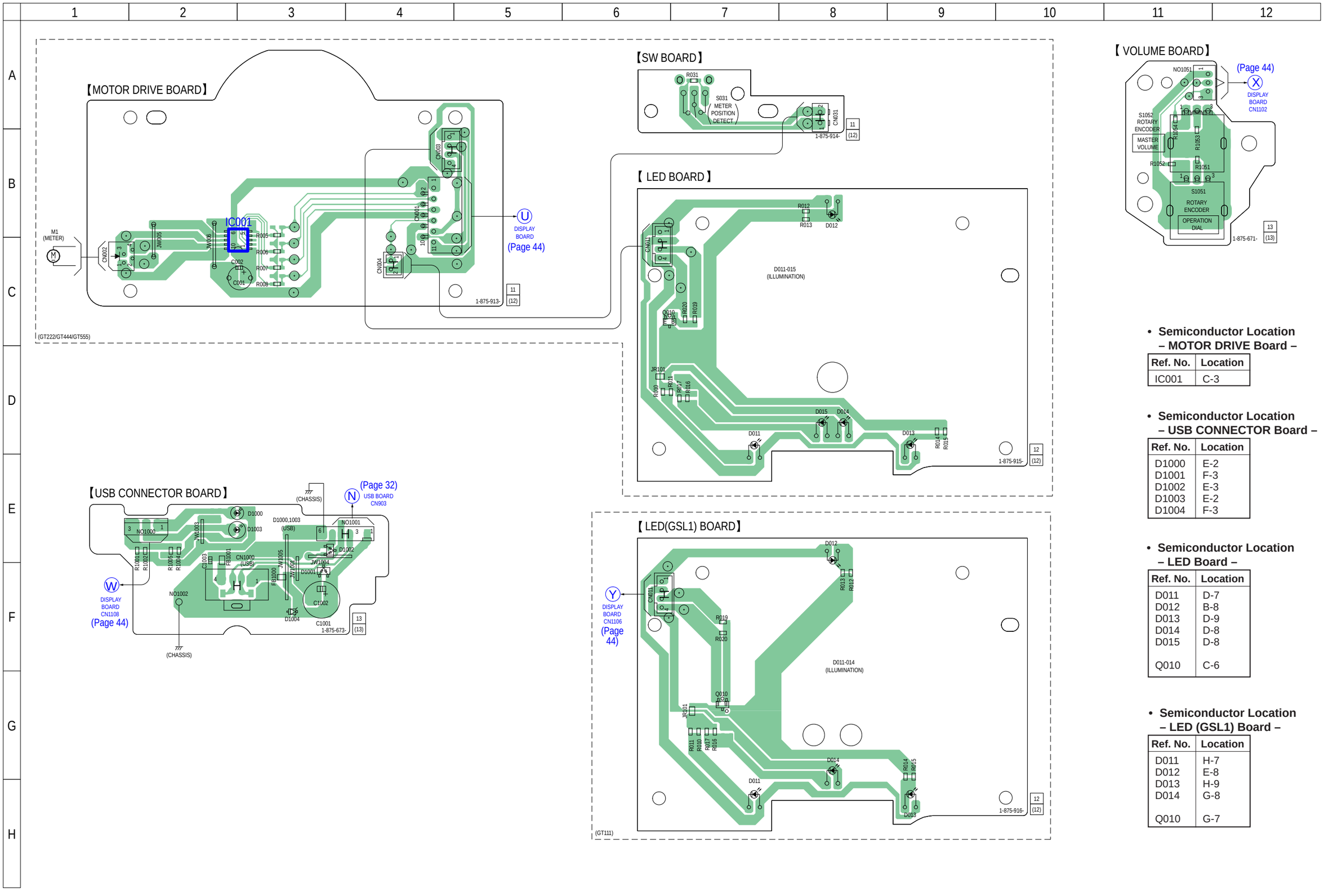


7-25. SCHEMATIC DIAGRAM - DISPLAY Board - • See page 54 for IC Block Diagrams.



7-26. PRINTED WIRING BOARDS - PANEL Section -

• See page 27 for Circuit Boards Location. • : Uses unleaded solder.



• **Semiconductor Location – MOTOR DRIVE Board –**

Ref. No.	Location
IC001	C-3

• **Semiconductor Location – USB CONNECTOR Board –**

Ref. No.	Location
D1000	E-2
D1001	F-3
D1002	E-3
D1003	E-2
D1004	F-3

• **Semiconductor Location – LED Board –**

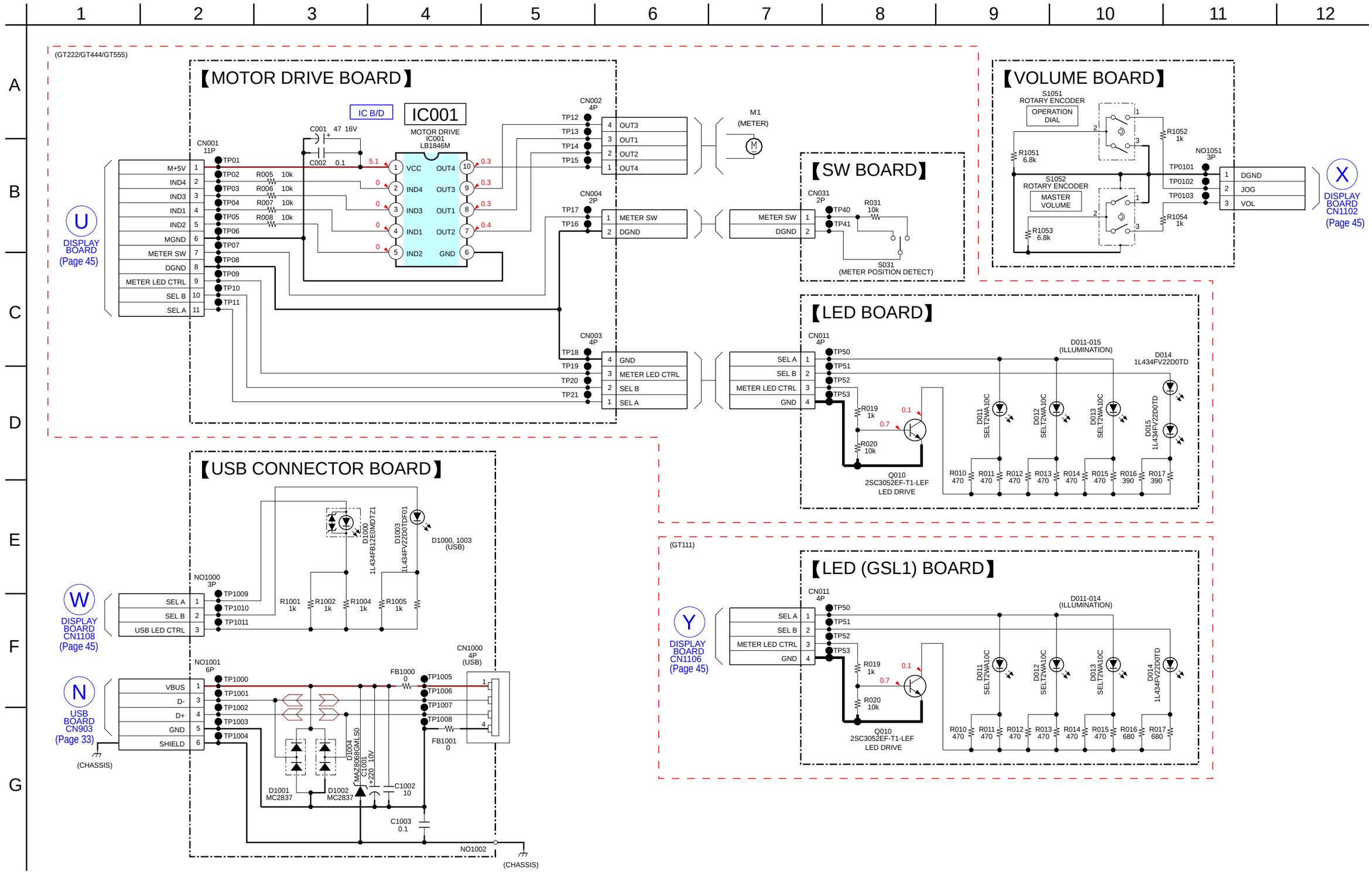
Ref. No.	Location
D011	D-7
D012	B-8
D013	D-9
D014	D-8
D015	D-8
Q010	C-6

• **Semiconductor Location – LED (GSL1) Board –**

Ref. No.	Location
D011	H-7
D012	E-8
D013	H-9
D014	G-8
Q010	G-7

7-27. SCHEMATIC DIAGRAM - PANEL Section -

• See page 54 for IC Block Diagrams.

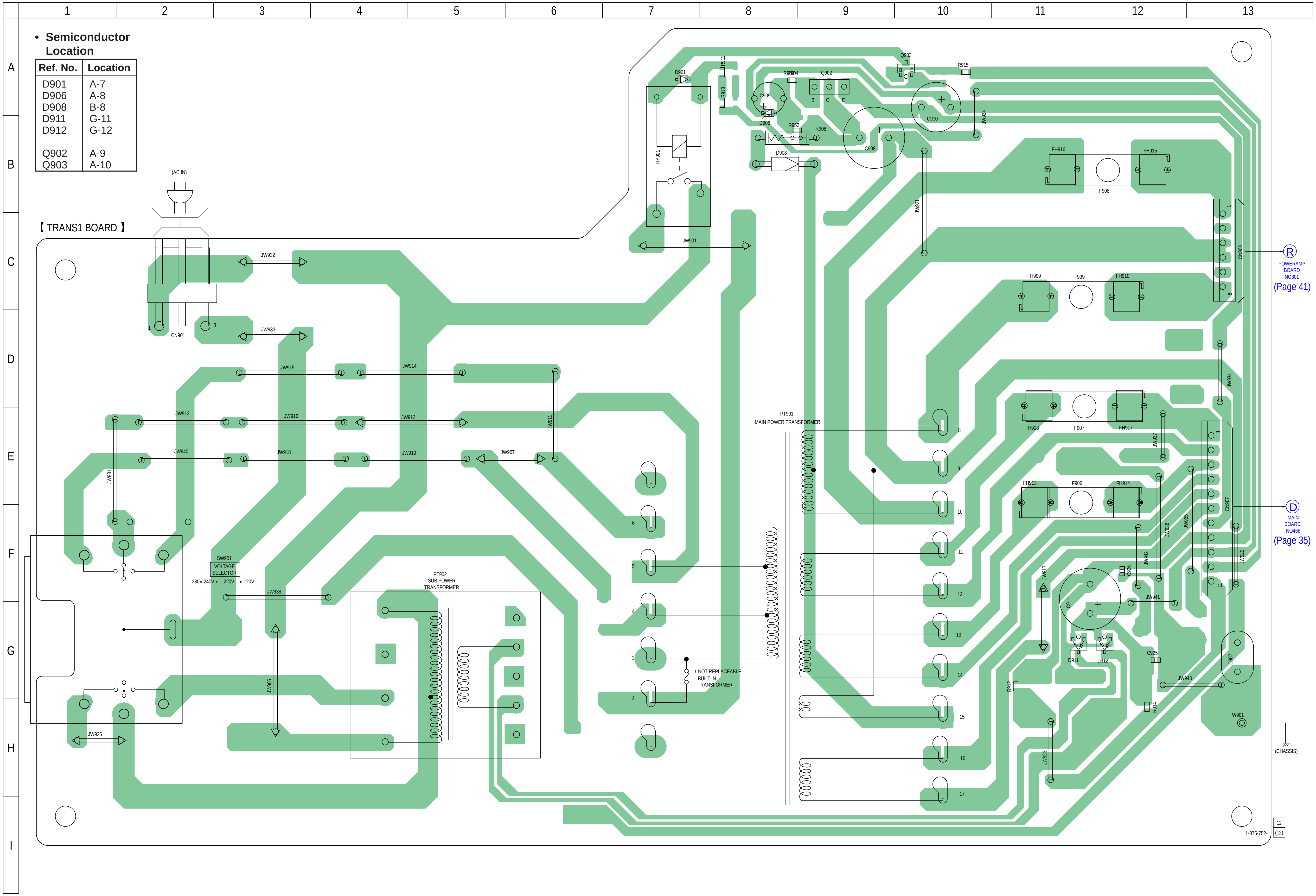


7-28. PRINTED WIRING BOARD - TRANS1 Board (GT111: 120V AC area in E, 240V AC area in E, Chilean and Peruvian models) -

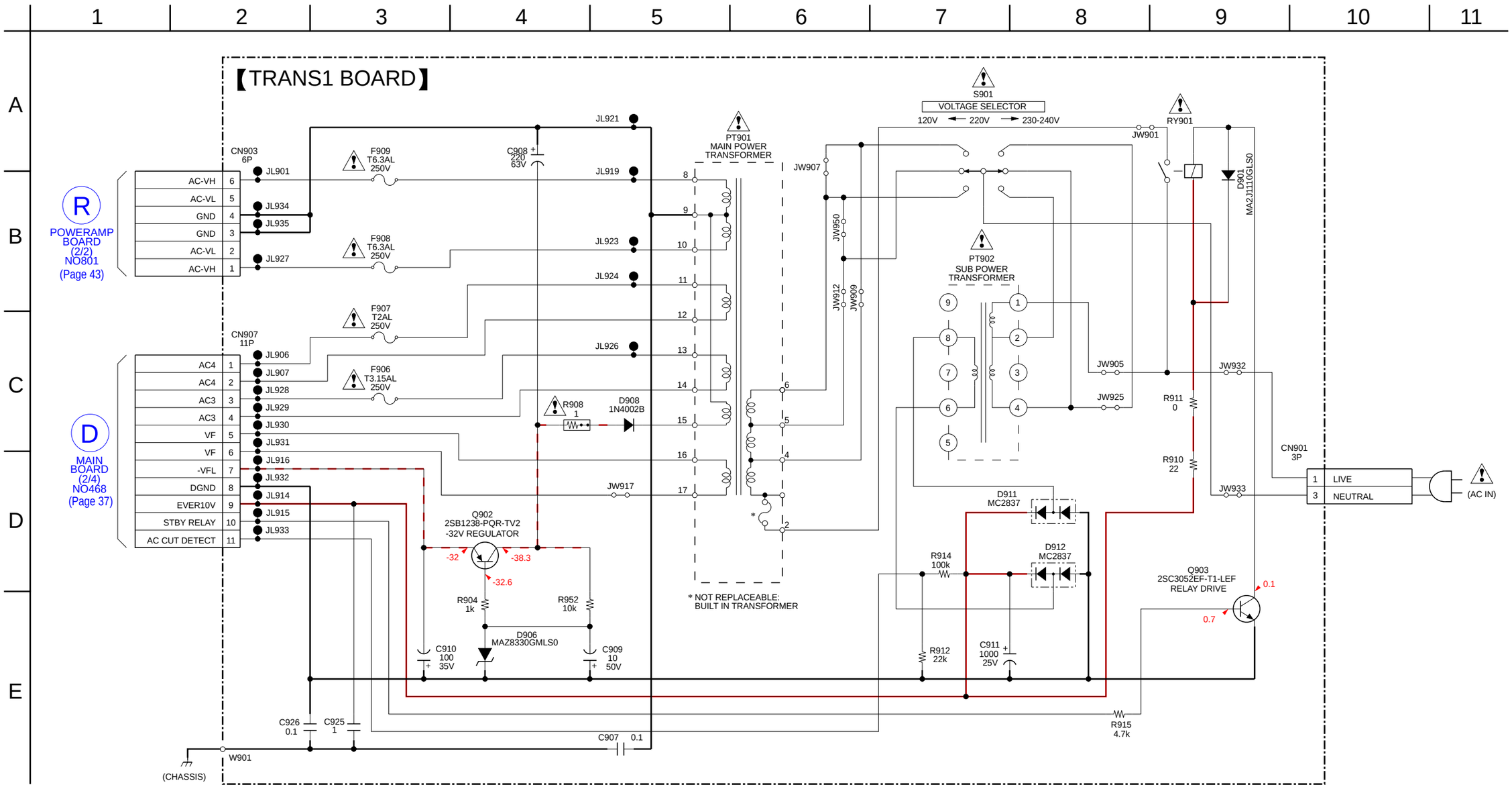
• See page 27 for Circuit Boards Location. • : Uses unleaded solder.

• **Semiconductor Location**

Ref. No.	Location
D901	A-7
D906	A-8
D908	B-8
D911	G-11
D912	G-12
Q902	A-9
Q903	A-10

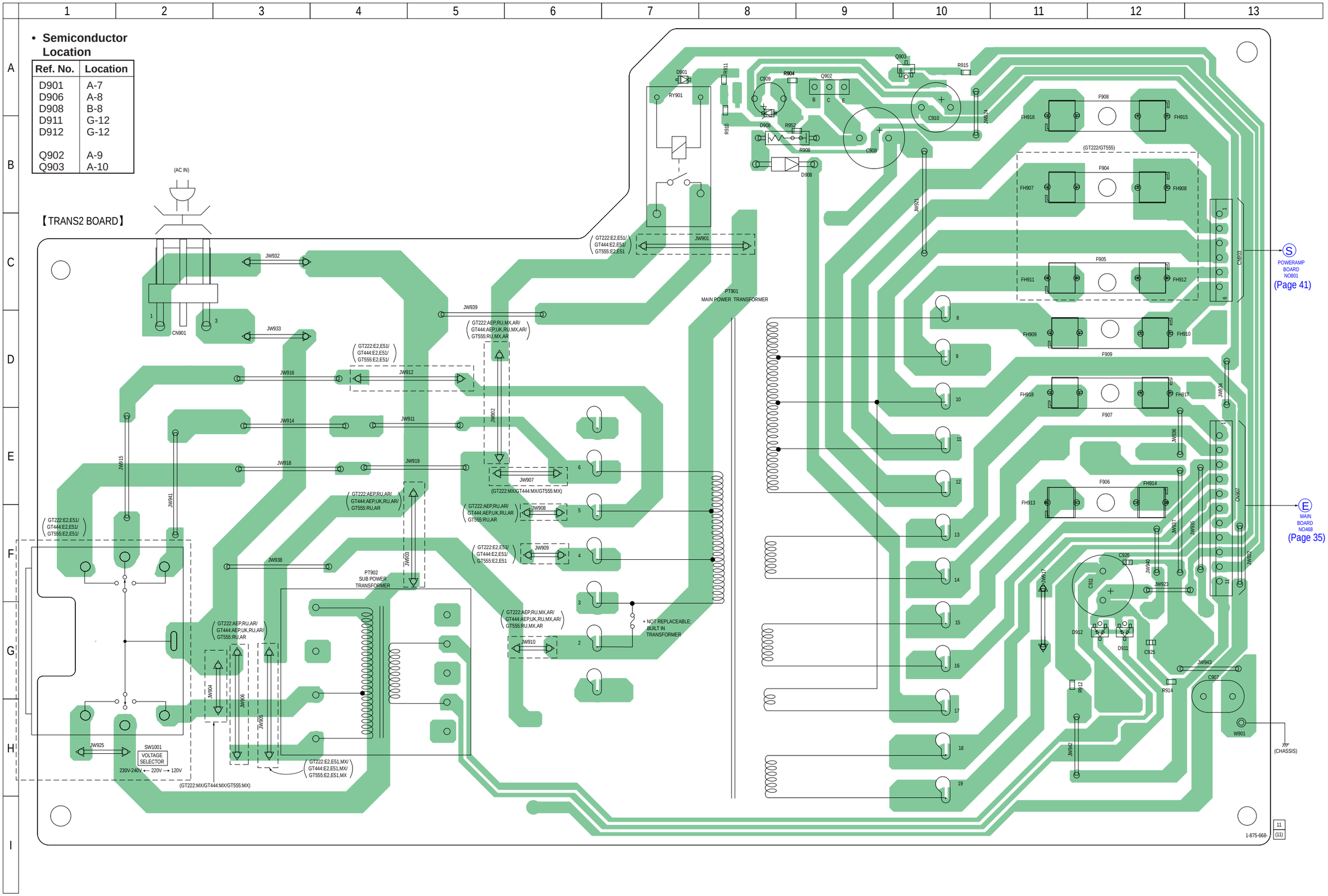


7-29. SCHEMATIC DIAGRAM - TRANS1 Board (GT111: 120V AC area in E, 240V AC area in E, Chilean and Peruvian models) -

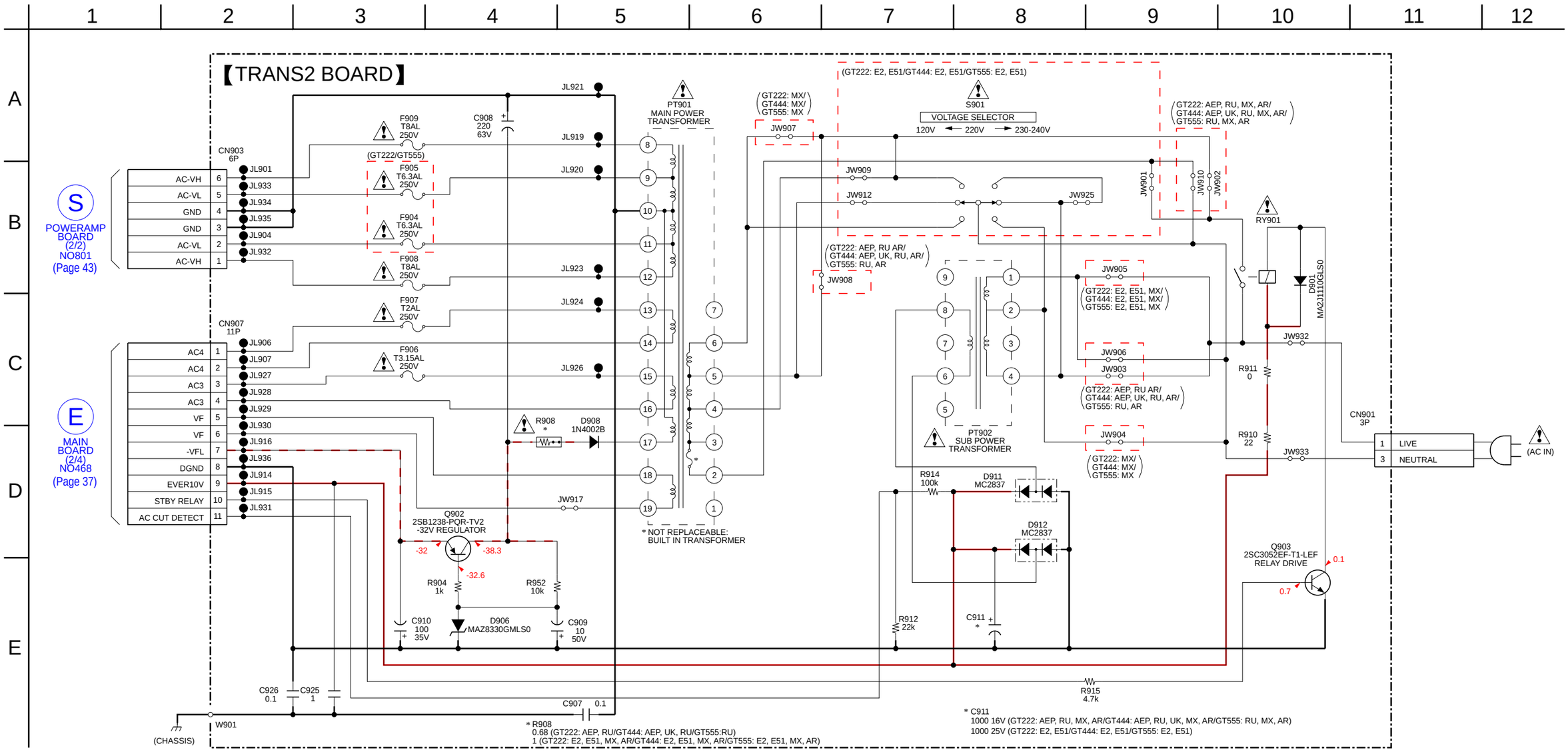


7-30. PRINTED WIRING BOARD - TRANS2 Board (GT222/GT444/GT555) -

• See page 27 for Circuit Boards Location. • : Uses unleaded solder.



7-31. SCHEMATIC DIAGRAM - TRANS2 Board (GT222/GT444/GT555) -

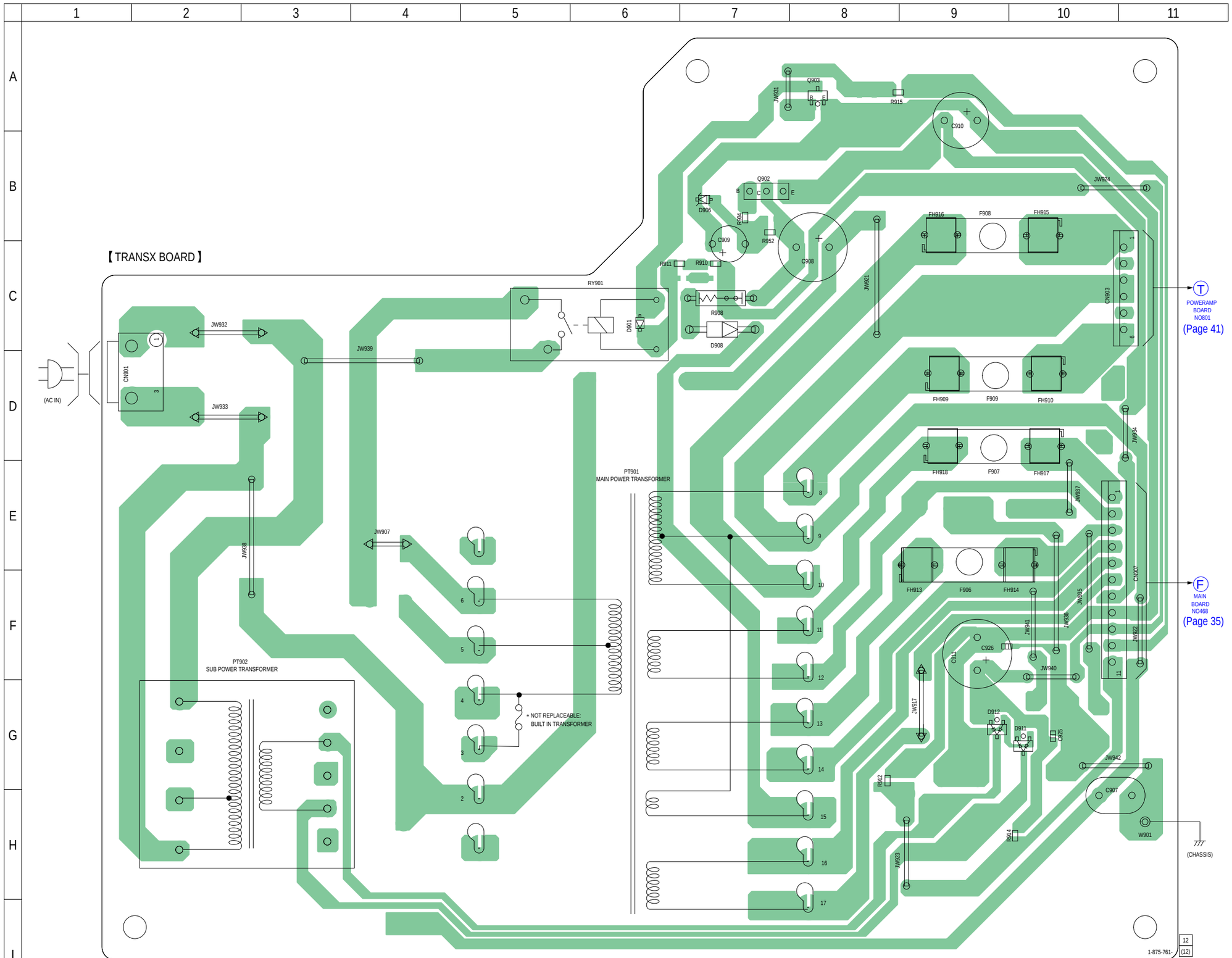


7-32. PRINTED WIRING BOARD - TRANSX Board (GT111: AEP, Russian and Argentina models) -

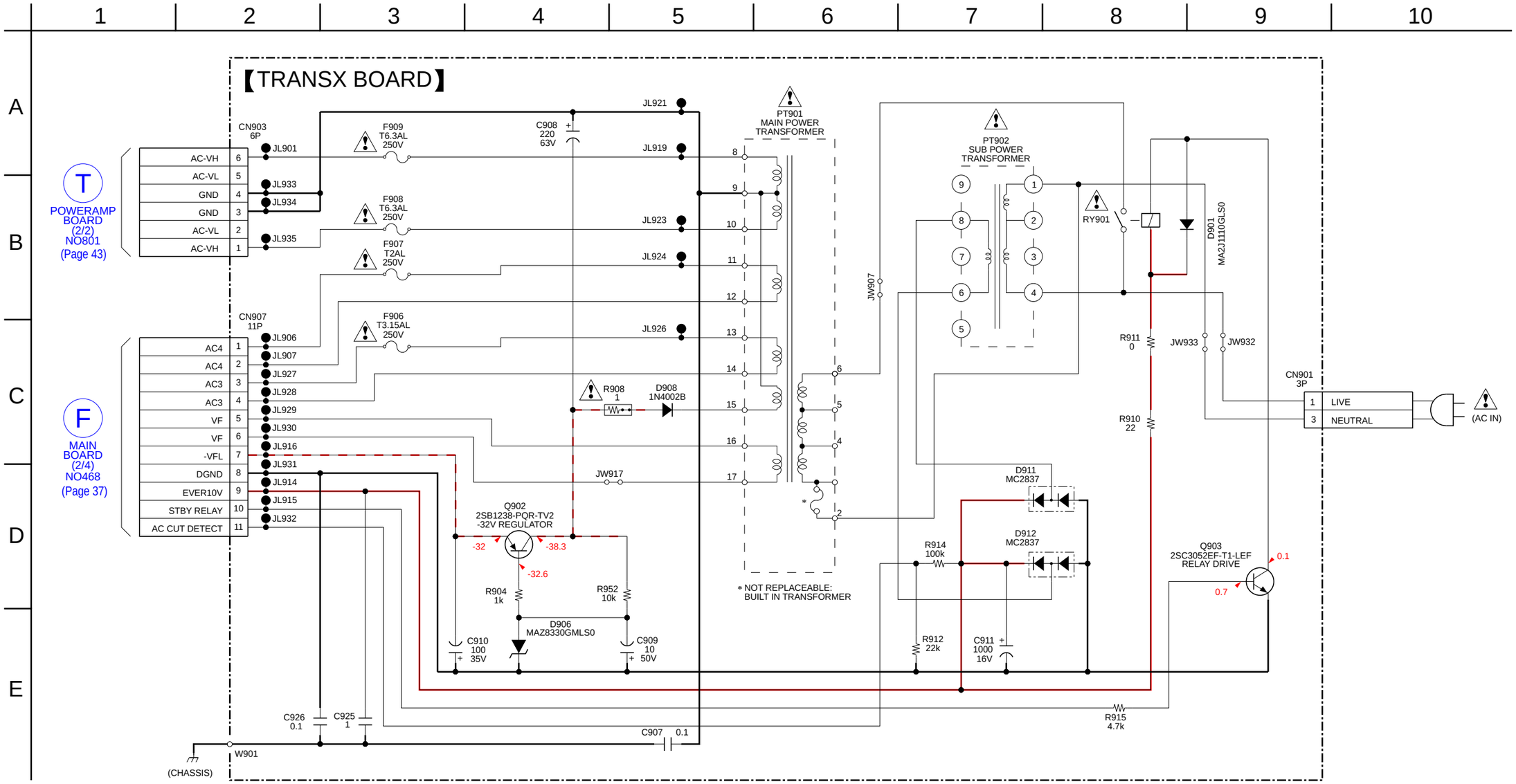
• See page 27 for Circuit Boards Location. • : Uses unleaded solder.

• **Semiconductor Location**

Ref. No.	Location
D901	C-6
D906	B-7
D908	C-7
D911	G-10
D912	G-9
Q902	B-7
Q903	A-8



7-33. SCHEMATIC DIAGRAM - TRANSX Board (GT111: AEP, Russian and Argentina models) -



• Waveforms

– CD Board –

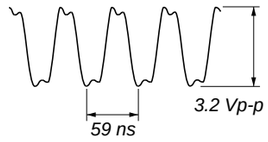
① IC101 ⑤ (FEi) (CD play mode)

200 mV/DIV, 500 ns/DIV

② IC101 ⑥ (TEi) (CD play mode)

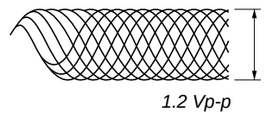
200 mV/DIV, 500 ns/DIV

③ IC101 ㉔ (XO) (CD play mode)



1 V/DIV, 20 ns/DIV

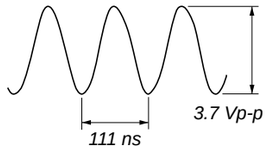
④ IC101 ㊶ (RFi) (CD play mode)



500 mV/DIV, 500 ns/DIV

– USB Board –

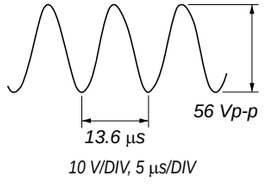
⑪ ICIC901 ㉝ (X2)



1 V/DIV, 50 ns/DIV

– TC Board –

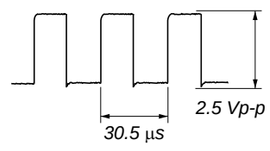
㉑ L501 ⑤ (TAPE REC mode)



10 V/DIV, 5 µs/DIV

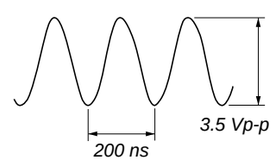
– MAIN Board –

㉛ IC401 ⑪ (XC-OUT)



1 V/DIV, 20 µs/DIV

㉜ IC401 ⑬ (X-OUT)

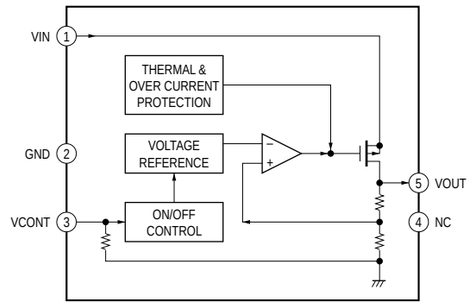


1 V/DIV, 100 ns/DIV

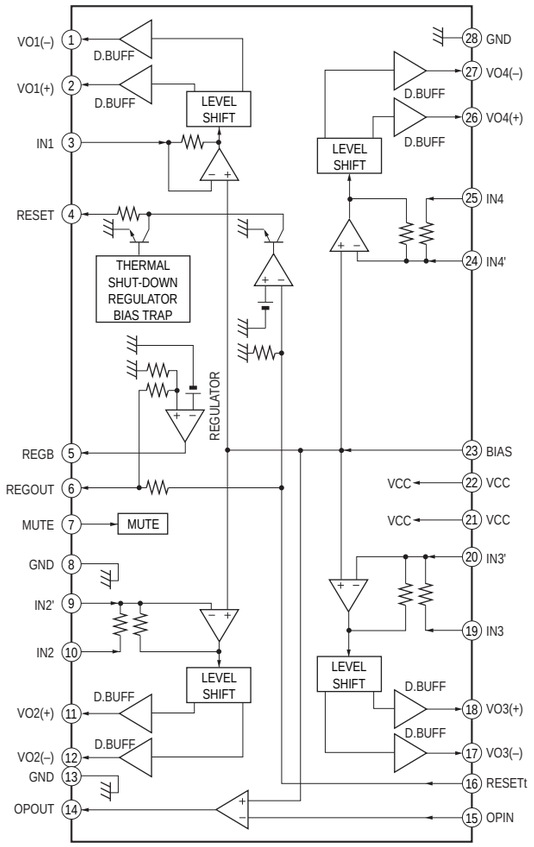
• IC Block Diagrams

– CD Board –

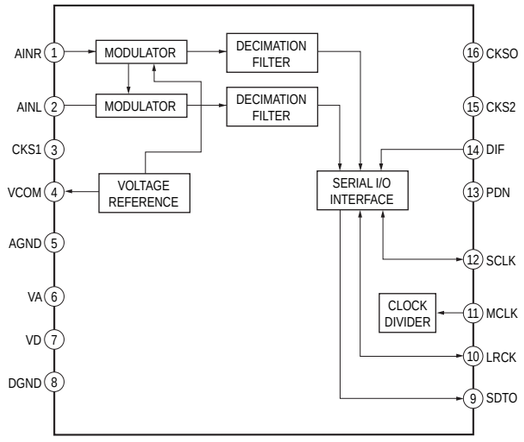
IC201 TK63115SCL-G@GT



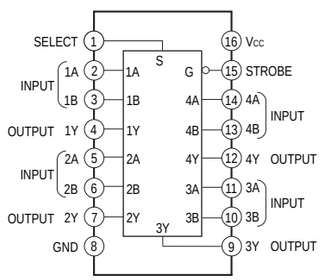
IC401 BA5826SFP-E2



IC501 AK5358AET-E2

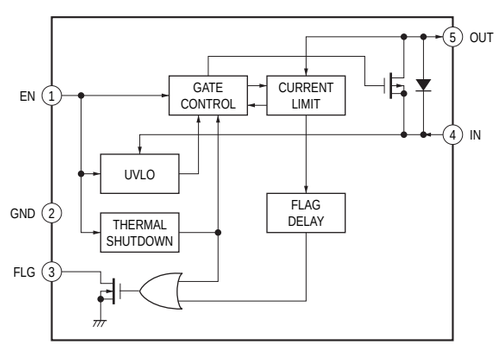


IC502 TC74VHC157FT (EKJ)



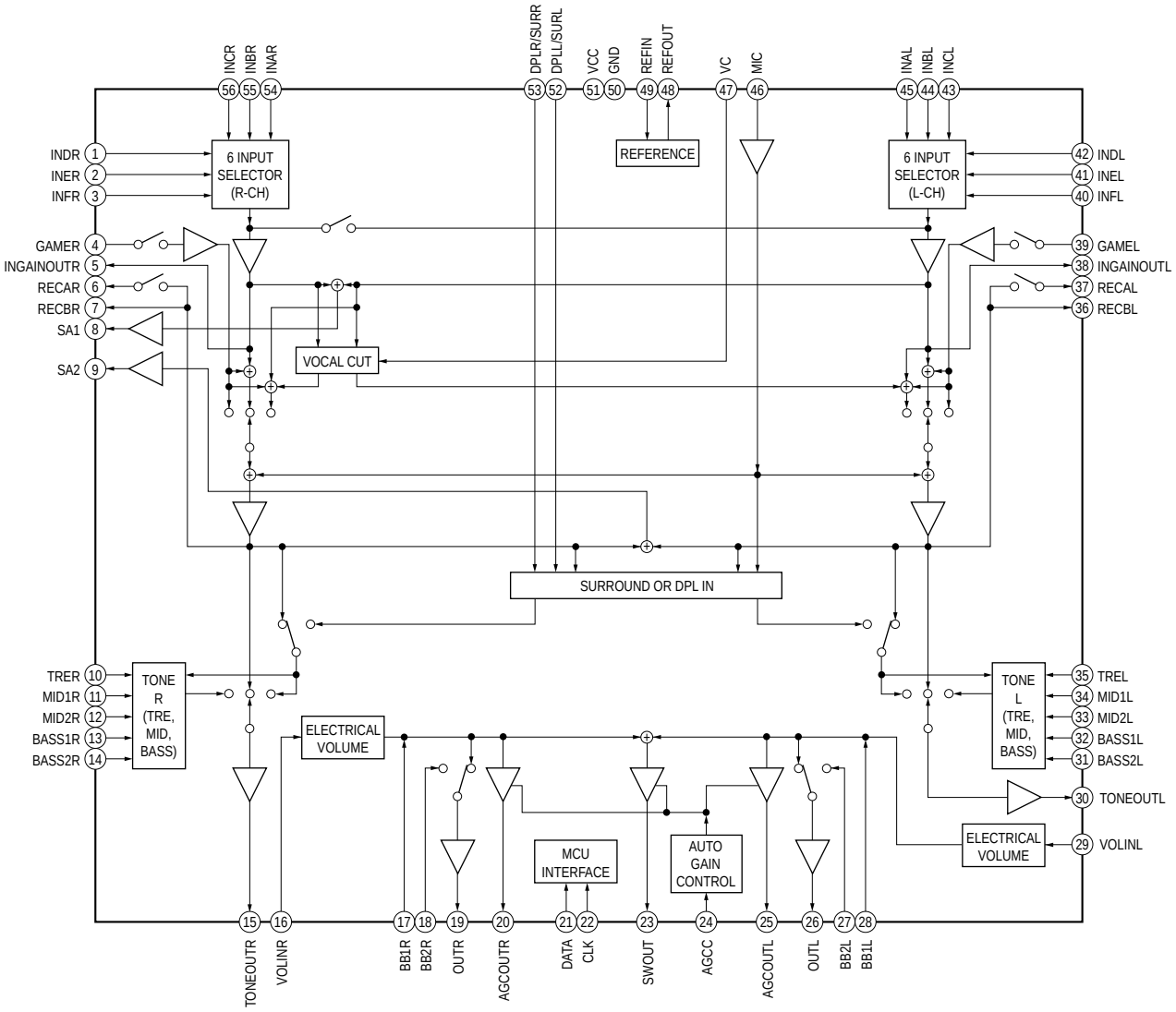
– USB Board –

IC915 R5523N001B-TR-F

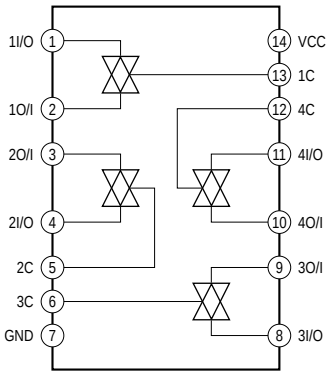


– MAIN Board –

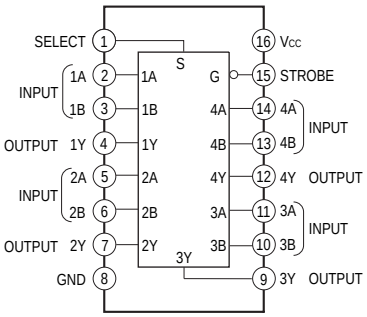
IC407 R2A15216FP



IC670, 672 TC74HC4066AFT (EL)

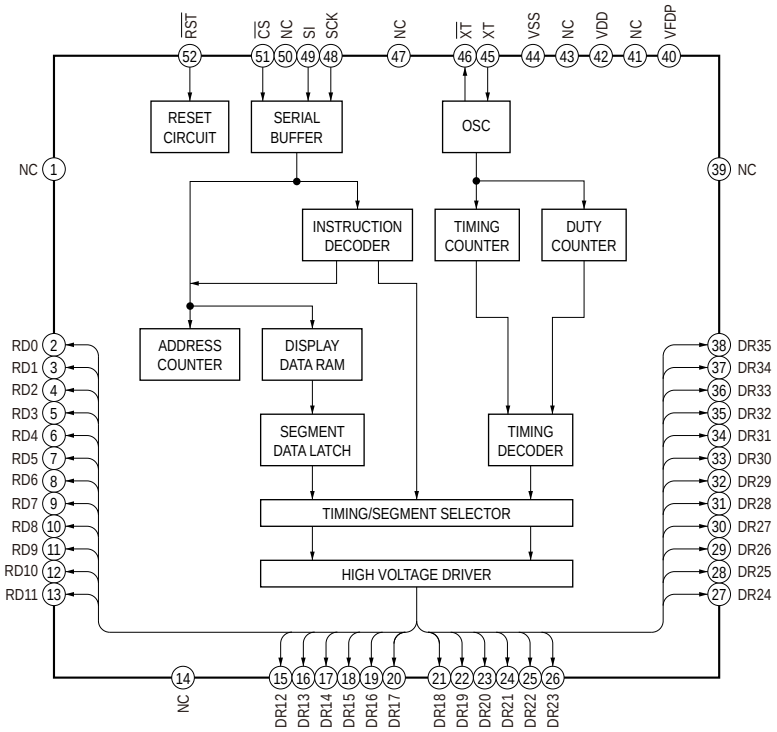


IC673 TC74VHC157FT (EKJ)



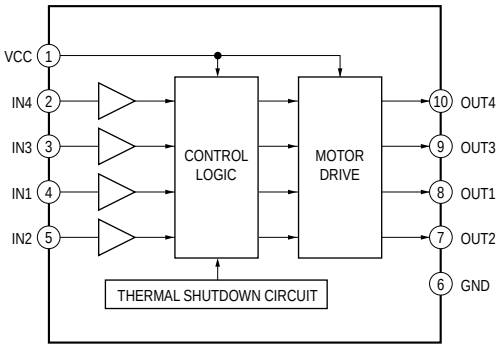
– DISPLAY Board –

IC1101 NJU3427FH2



– MOTOR DRIVE Board –

IC001 LB1846M



• **IC Pin Function Description**

CD BOARD IC101 TC94A70FG-101 (CD-MP3 PROCESSOR)

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

Pin No.	Pin Name	I/O	Description
56	IPF	O	Not used
57	SFSY/LOCK	O	Not used
58	ZDET	O	Zero detection signal output terminal Not used
59	GPIN	I	Not used
60	MS	I	Microcomputer interface mode selection signal input terminal Fixed at "H" in this set
61	DOUT (PO6)	O	Digital audio data output terminal Not used
62	AOUT (PO7)	O	Audio data output terminal Not used
63	BCK (PO8)	O	Bit clock signal output to the USB controller
64	LRCK (PO9)	O	L/R sampling clock signal output terminal
65	AIN (PI4)	I	Digital audio data input from USB controller or A/D converter
66	BCKi (PI5)	I	Bit clock signal input from the USB controller or A/D converter
67	LRCKi (PI6)	I	L/R sampling clock signal input from the USB controller or A/D converter
68	VDD1	-	Power supply terminal (+1.5 V)
69	VSS1	-	Ground terminal
70	AWRC	-	Not used
71	PVDD3	-	Power supply terminal (+3.3 V)
72	PDo	O	Phase error margin signal between EFM signal and PLCK signal output terminal
73	TMAXS	O	TMAX detection signal output terminal Not used
74	TMAX	O	TMAX detection signal output terminal
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 (+1.65V) input terminal
78	VCOF	O	VCO filter output terminal
79	PVSS3	-	Ground terminal
80	SLCo	O	EFM slice level output terminal
81	RFi	I	RF signal input terminal
82	RFRPi	I	RF ripple signal input terminal
83	RFEQo	O	EFM slice level output terminal
84	VRo	O	Reference voltage (+1.65V) output terminal
85	RESiN	O	External resistor connection terminal
86	VMDiR	O	Reference voltage (+1.65V) output terminal 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 terminal
89	RFo	O	RF signal generation amplification output terminal
90	RVDD3	-	Power supply terminal (+3.3 V)
91	LDo	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 terminal
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 terminal
100	TNi (E)	I	Sub beam (E) input from the optical pick-up block

USB BOARD IC901 TMP92CD28AFG-7AC9 (USB CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	/RESET	I	Reset signal input from the system controller "L": reset
2	DI	I	Ready to send signal input from the system controller
3, 4	NO USE	O	Not used
5	G-3	I	Function selection signal input terminal Fixed at "L" in this set
6	DVCC	-	Power supply terminal (+3.3 V)
7 to 9	NO USE	O	Not used
10	DVSS	-	Ground terminal
11	DVCC	-	Power supply terminal (+3.3 V)
12	RVOUT1	O	Reference voltage (+3.3 V) output terminal
13, 14	RVIN	I	Reference voltage (+3.3 V) input terminal
15	RVOUT2	O	Reference voltage (+3.3 V) output terminal
16	DVCC	-	Power supply terminal (+3.3 V)
17	DVSS	-	Ground terminal
18 to 25	D0 to D7	I/O	Two-way data bus with the S-RAM
26	DVSS	-	Ground terminal
27	DVCC	-	Power supply terminal (+3.3 V)
28 to 35	D8 to D15	I/O	Two-way data bus with the S-RAM
36	A0	O	Address signal output terminal Not used
37 to 43	A1 to A7	O	Address signal output to the S-RAM
44	DVSS	-	Ground terminal
45	DVCC	-	Power supply terminal (+3.3 V)
46 to 54	A8 to A16	O	Address signal output to the S-RAM
55 to 58	BUS0 to BUS3	O	Serial data output to the CD-MP3 processor
59	/BUCK	O	Serial data transfer clock signal output to the CD-MP3 processor
60	/CCE	O	Chip enable signal output to the CD-MP3 processor
61	NO USE	O	Not used
62	DVSS	-	Ground terminal
63	DVCC	-	Power supply terminal (+3.3 V)
64	RD	O	Output enable signal output to the S-RAM
65	WR	O	Write enable signal output to the S-RAM
66	SRLLB	O	Lower-byte control signal output to the S-RAM
67	SRLUB	O	Upper-byte control signal output to the S-RAM
68	NO USE	O	Not used
69	BOOT	I	Boot mode selection signal input terminal "L": boot mode
70	CS2	O	Chip select signal output to the S-RAM
71	LRCK	O	L/R sampling clock signal output to the CD-MP3 processor
72	AM1	I	Function mode selection signal input terminal Fixed at "H" in this set
73	X2	O	System clock output terminal (9 MHz)
74	DVSS	-	Ground terminal
75	X1	I	System clock input terminal (9 MHz)
76	DVCC	-	Power supply terminal (+3.3 V)
77	USBOC	I	Over current detection signal input terminal
78	USBPON	O	USB VBUS power on/off control signal output terminal "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 terminal Fixed at "H" in this set
82	NO USE	O	Not used
83	DVSS	-	Ground terminal
84	DO	O	Clear to send signal output to the system controller
85	DATA	I	Audio data input from the CD-MP3 processor
86	CLOCK	I	Audio data transfer clock signal input from CD-MP3 processor
87	TXD1	O	Serial data output to the system controller
88	RXD1	I	Serial data input from the system controller
89	NO USE	O	Not used
90	SDA	I/O	Two-way EEPROM IIC data bus terminal Not used

Pin No.	Pin Name	I/O	Description
91	SCL	I/O	Two-way EEPROM IIC clock bus terminal Not used
92	BCK	O	Bit clock signal output to the CD-MP3 processor
93	DATA	O	Audio data output to the CD-MP3 processor
94	GATE	O	Gate signal output to the CD-MP3 processor
95	DVCC	-	Power supply terminal (+3.3 V)
96	REQ	I	Request signal input from the CD-MP3 processor
97	ST-REQ	I	Request signal input from the CD-MP3 processor
98, 99	G-1, G-2	I	Function selection signal input terminal Fixed at "L" in this set
100	DVSS	-	Ground terminal

MAIN BOARD IC401 R5F3640MDFA (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1, 2	METER-IN3, METER-IN4	O	Meter motor drive signal output to the motor drive (GT222/GT444/GT555)
3	SW LED	O	LED drive signal output terminal for SUBWOOFER indicator (GT222/GT444/GT555)
4	SIRCS	I	SIRCS signal input from the remote control receiver
5	CDM-SD	I	CD mechanism deck protector detection signal input signal "H": protector on
6, 7	M2-, M2+	O	Disc change and mode change motor drive signal output terminal
8	BYTE	I	External data bus width selection signal input terminal
9	CN Vss	I	Processor mode switch input terminal (for test)
10	XC-IN	I	Sub system clock input terminal (32.768 kHz)
11	XC-OUT	O	Sub system clock output terminal (32.768 kHz)
12	RESET	I	System reset signal input from the reset switch "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
13	X-OUT	O	Main system clock output terminal (5 MHz)
14	VSS	-	Ground terminal
15	X-IN	I	Main system clock input terminal (5 MHz)
16	VCC	-	Power supply terminal (+3.3V)
17	NMI	I	Non-maskable interrupt signal input terminal Not used
18	M1-	O	Tray/drawer transportation motor drive signal output terminal
19	SBSY	I	Subcode block sync signal input from the CD-MP3 processor
20	AC-CUT	I	AC cut on/off detection signal input terminal "L": AC cut on
21	M1+	O	Tray/drawer transportation motor drive signal output terminal
22, 23	SW3, SW1	I	Disc change and mode change detection signal input from CD mechanism deck
24	SW-CHUCK	I	Tray chuck position detection signal from CD mechanism deck
25	SW2	I	Disc change and mode change detection signal input from CD mechanism deck
26	SW-CLOSE	I	Drawer close position detection signal input from CD mechanism deck
27	SW-STOCK	I	Tray stock position detection signal from CD mechanism deck
28	SW-OPEN	I	Drawer open position detection signal input from CD mechanism deck
29	IIC-CLK	I/O	Serial data transfer clock signal output terminal Not used
30	IIC-DATA	I/O	Serial data output terminal Not used
31	MC TXD	O	Serial data output terminal Not used
32	MC RXD	I	Serial data input terminal Not used
33	USB RESET	O	Reset signal output to the USB controller
34	USB CTS0	I	Clear to send signal input from USB controller
35	USB TXD0	O	Serial data output to the USB controller
36	USB RXD0	I	Serial data input from the USB controller
37	USB SEL-SW	O	Bus selection signal output terminal
38	USB RTS0	O	Ready to send signal to USB controller
39	AD SUPPLY SW	O	Power on/off control signal output terminal for the jog dail
40	MP3 IREQ	I	Request signal input from the CD-MP3 processor
41 to 44	CD BUS0 to CD BUS3	I/O	Serial data output to the CD-MP3 processor
45	CD BUCK	O	Serial data transfer clock signal output to the CD-MP3 processor
46	CD CCE	O	Chip enable signal output to the CD-MP3 processor
47	CD-MMUTE	O	Muting signal output to the coil/motor driver
48	CD-XRST	O	Reset signal output to the CD-MP3 processor
49	TC_+9V SW	O	Power on/off control signal output terminal for the tape section
50	PROTECT	I	Speaker protect detection signal input from speaker protect circuit "H":protector on
51	STK MUTE	O	Power amplifier on/off control signal output terminal "H": amplifier on
52	SW SPK RELAY	O	Relay drive signal output terminal for the subwoofer "H":relay on (GT444/GT555)
53	FR SPK RELAY	O	Relay drive signal output terminal for the front speakers "H":relay on
54	STBY RELAY	O	Main power on/off control signal output terminal "H":power on
55	EEP-DATA	I/O	Two-way IIC data bus with the EEPROM
56	EEP-SCL	I/O	Two-way IIC clock bus with the EEPROM
57	DMPORT DET	I	DMPORT adaptor connection detection input terminal Not used
58	LINE MUTE	O	Line muting on/off control signal output terminal "L":muting on
59	R2A15216FP-CLK	O	Serial data transfer clock signal output to the electrical volume
60	R2A15216FP-DATA	O	Serial data output to the electrical volume

Pin No.	Pin Name	I/O	Description
61	ST-TUNED	O	Tuned detection input from the tuner (FM/AM)
62	VCC	-	Power supply terminal (+3.3V)
63	ST-CE	O	PLL chip enable signal output to the tuner (FM/AM)
64	VSS	-	Ground terminal
65	ST-DIN	O	PLL serial data output to the tuner (FM/AM)
66	ST-CLK	O	PLL serial data transfer clock signal output to the tuner (FM/AM)
67	ST-DOUT	I	PLL serial data input from the tuner (FM/AM)
68	POWER ILLUMINATOR	I	Spectrum analyzer drive signal input from the electrical volume
69	NO USE	-	Not used
70	USB-BLUE LED	O	LED drive signal output terminal for the USB indicator "H": LED on
71	MIC/HP DET	I	Headphone/microphone connection detection signal input terminal (A/D input)
72	STBY LED	O	LED drive signal output terminal for STANDBY indicator "H":LED on
73	LED CTRL	O	Dynamic LED drive select signal output terminal
74	POWER/DISPLAY-KEY	I	POWER & DISPLAY key press detection signal input terminal (Interrupt input)
75	ST-RDS-INT	I	RDS data transfer clock signal input the tuner (FM/AM) (GT111: AEP/GT222: AEP/GT444: AEP, UK models)
76	ST-RDS-DATA	I	RDS data input from the tuner (FM/AM) (GT111: AEP/GT222: AEP/GT444: AEP, UK models)
77 to 79	LED-VOL5. 6 to LED-VOL1. 2	O	Dynamic LED drive signal output to the motor drive "H":LED on
80	METER LED	O	Dynamic LED drive signal output to the motor drive "H":LED on
81	METER SW	I	Meter position detection signal input terminal (A/D input) (GT222/GT444/GT555)
82	TC TAPE-STATE	I	Tape playback/recording/stop status detection signal input terminal (A/D input)
83	OVERVOLTAGE	I	Over-voltage protection detection signal input terminal "L": over-voltage detected
84	METER-IN2	O	Meter motor drive signal output to the motor drive (GT222/GT444/GT555)
85	FL-DRIVER-CLK	O	Serial data transfer clock signal output to the fluorescent indicator tube driver
86	FL-DRIVER-DATA	O	Serial data output to the fluorescent indicator tube driver
87	FL-DRIVER-CS	O	Chip select signal output to the fluorescent indicator tube driver
88	FL-DRIVER-RESET	O	Reset signal output to the fluorescent indicator tube driver
89	VACS IN	I	VACS level detection signal input terminal (A/D input)
90	OPERATION DIAL	I	Jog dial pulse input from the OPERATION DIAL encoder (A/D input)
91	MASTER VOL	I	Jog dial pulse input from the MASTER VOLUME encoder (A/D input)
92	MODEL-IN	I	Model setting terminal (A/D input)
93	DEST-IN	I	Destination setting terminal (A/D input)
94, 95	AD-KEY-2, AD-KEY-1	I	Key input terminal (A/D input)
96	AVSS	I	Ground terminal (for A/D conversion)
97	AD-KEY-0	I	Key input terminal (A/D input)
98	VREF	I	A/D Converter reference voltage input terminal (+3.3V)
99	AVCC	-	Power supply terminal (+3.3V) (for A/D conversion)
100	METER-IN1	O	Meter motor drive signal output to the motor drive (GT222/GT444/GT555)

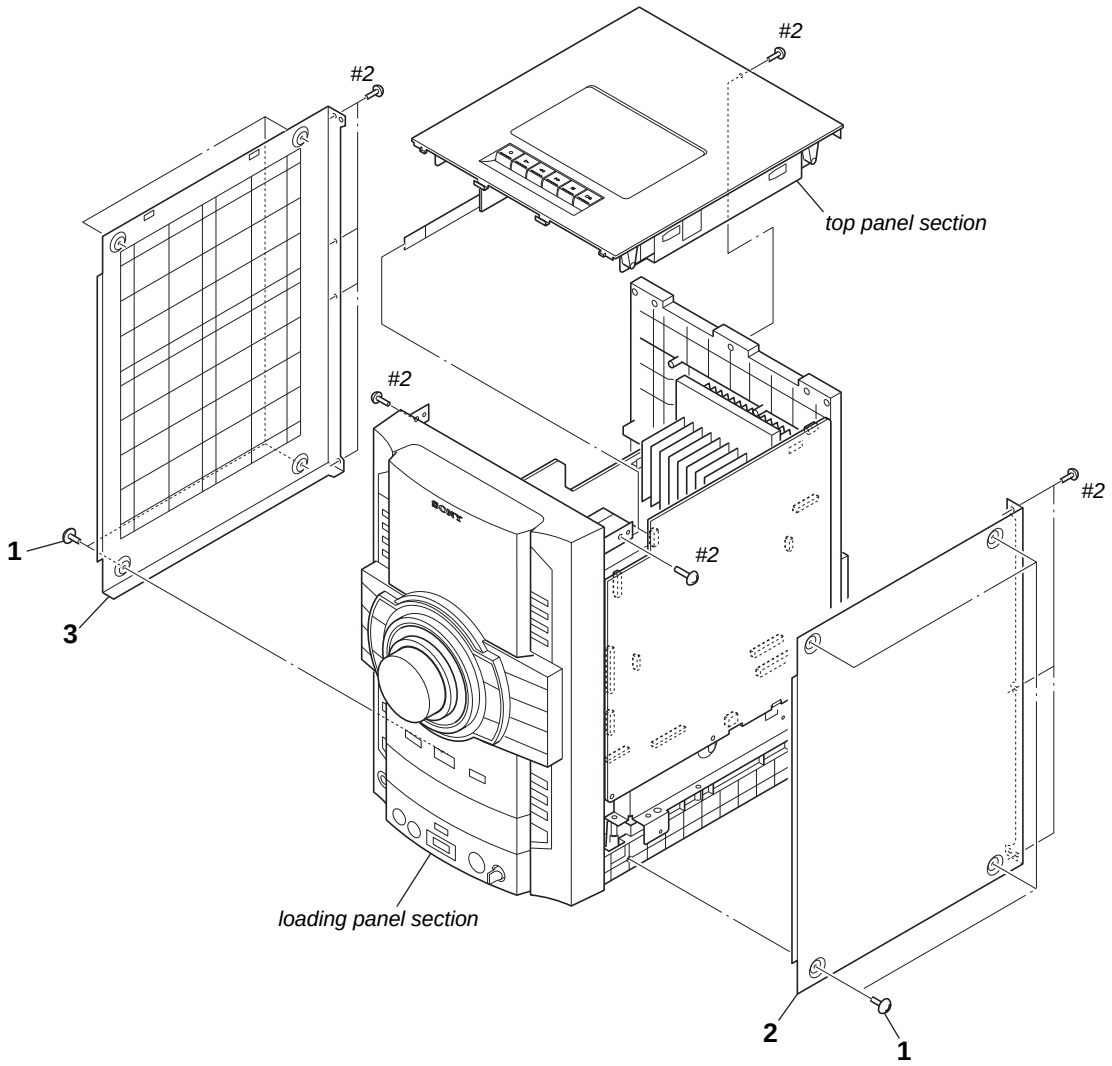
SECTION 8
EXPLODED VIEWS

Note:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts of Color ↑ Cabinet's Color
- Accessories are given in the last of the electrical parts list.
- Abbreviation
  AR : Argentina model
  E2 : 120V AC area in E model
  E3 : 240V AC area in E model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  RU : Russian model

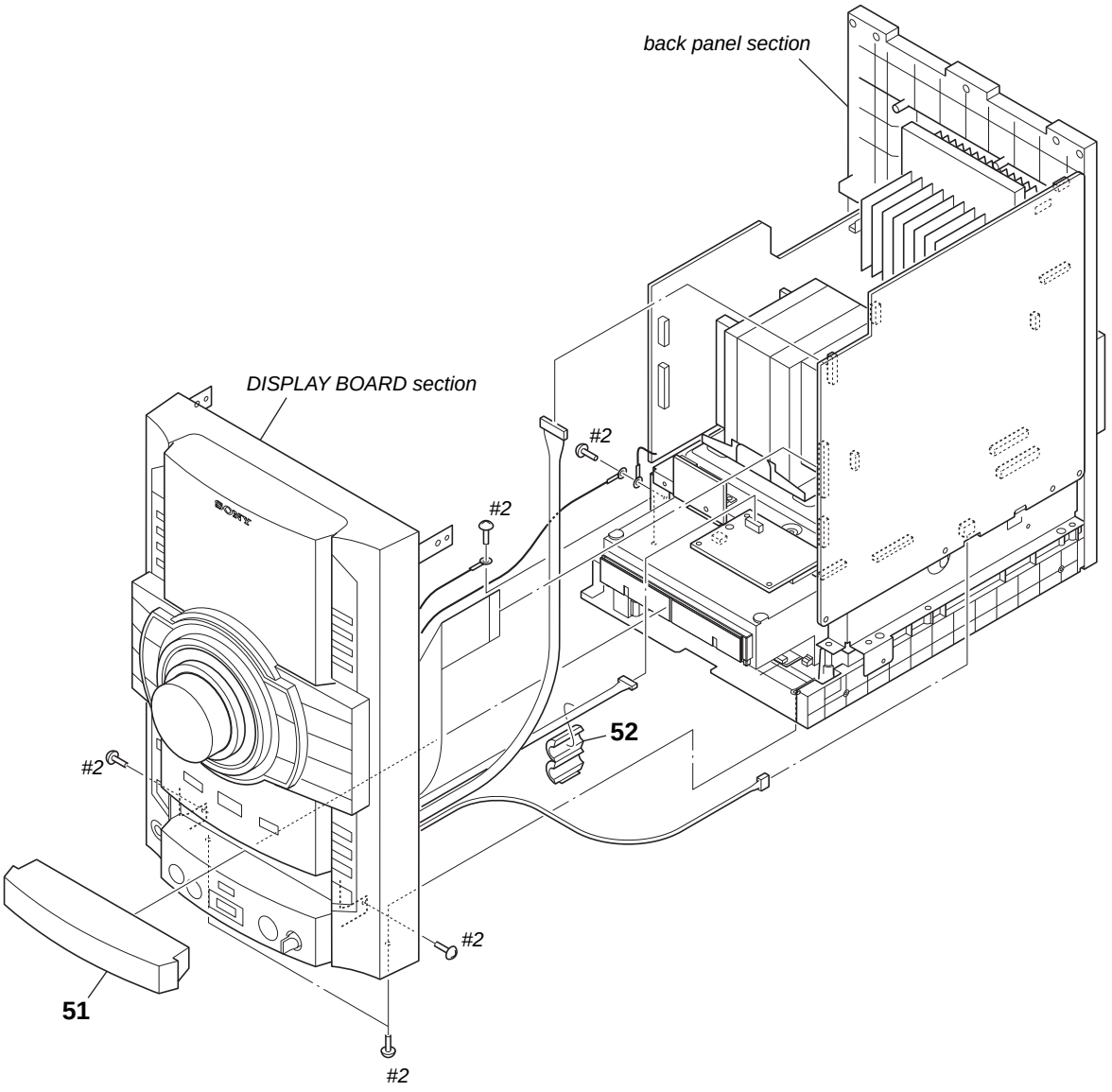
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

8-1. CASE SECTION



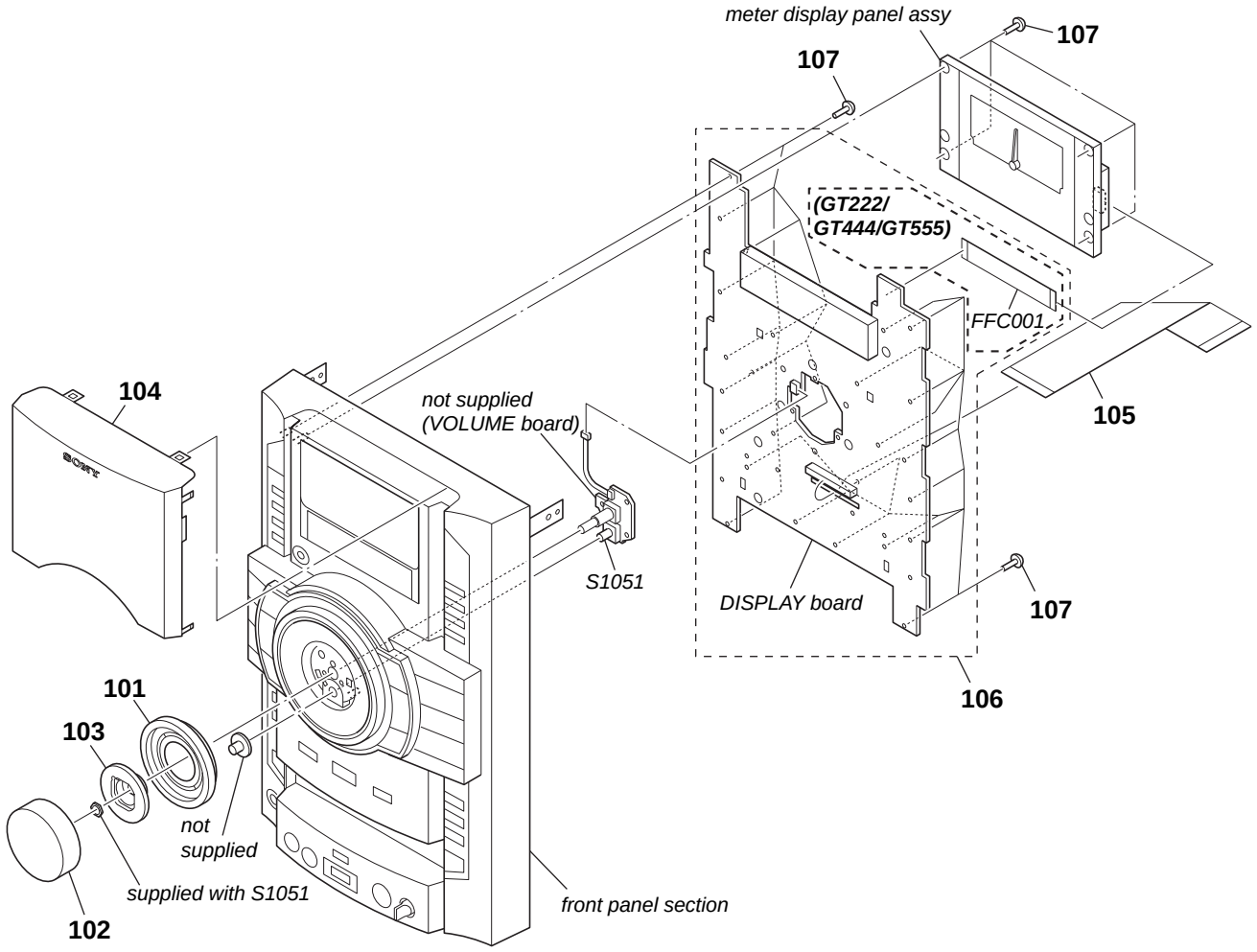
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-363-099-32	SCREW (CASE 3 TP2)		3	3-283-218-01	CASE, SIDE-L	
2	3-283-219-01	CASE, SIDE-R		#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

8-2. LOADING PANEL SECTION



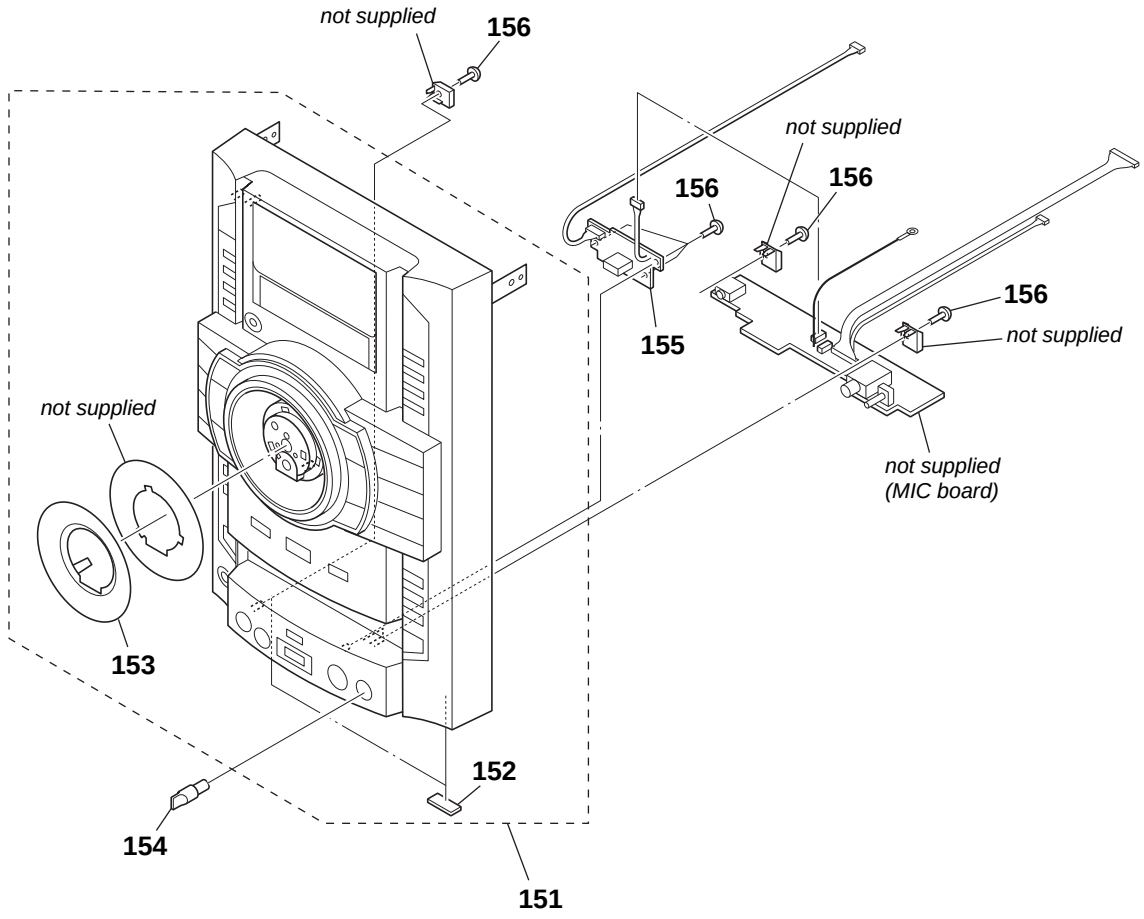
Ref. No.	Part No.	Description	Remark
51	3-283-215-01	PANEL, LOADING (GT111: AEP, RU, E2, E51, AR)	
51	3-283-215-11	PANEL, LOADING (GT222)	
51	3-283-215-21	PANEL, LOADING (GT444)	
51	3-283-215-31	PANEL, LOADING (GT555)	
51	3-283-215-41	PANEL, LOADING (GT111: E3)	
52	1-543-793-11	FILTER, CLAMP (FERRITE CORE)	
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

8-3. DISPLAY BOARD SECTION



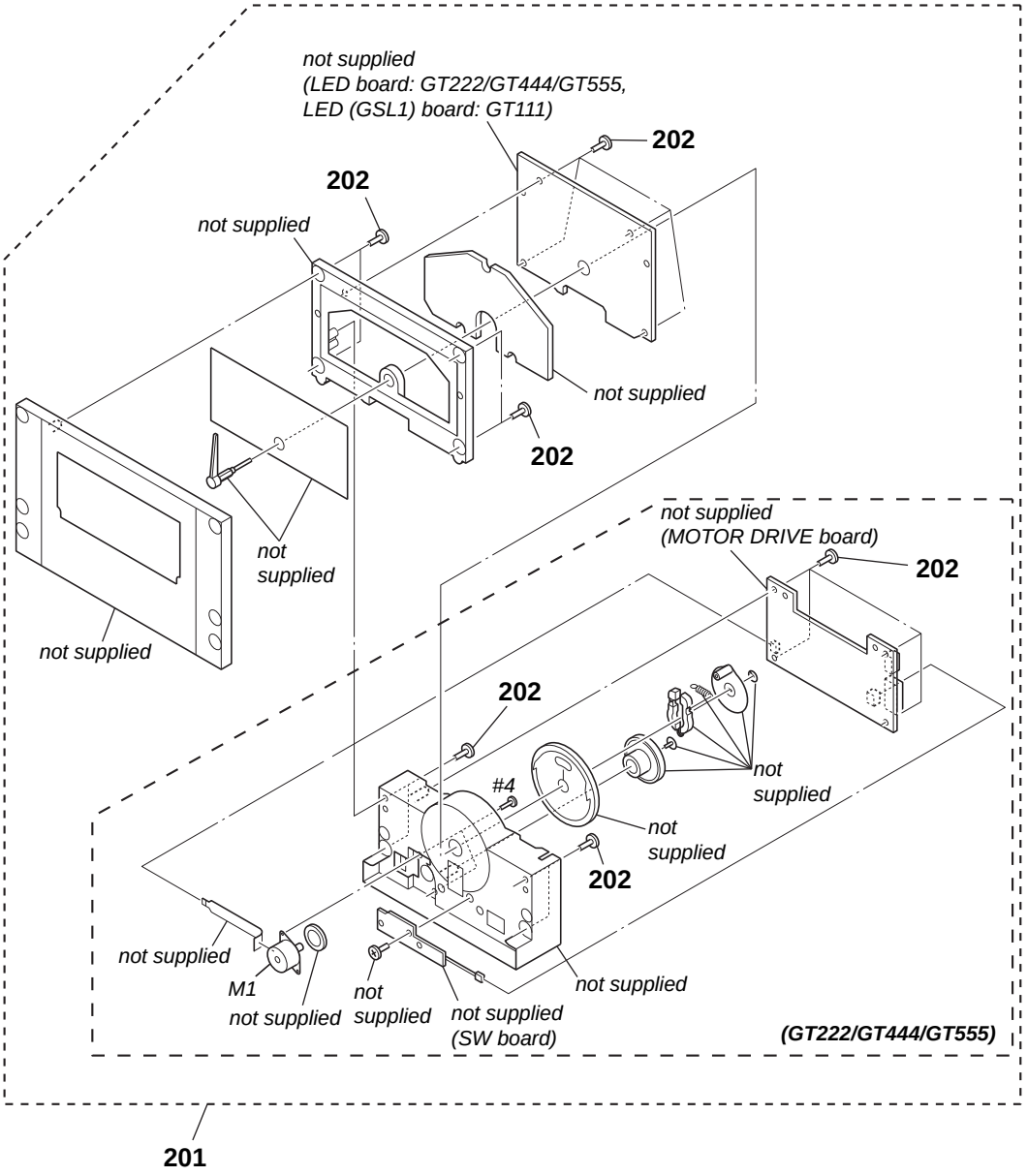
Ref. No.	Part No.	Description	Remark
101	3-283-207-01	KNOB JOG (GT111/GT222/GT444)	
101	3-283-207-11	KNOB JOG (GT555)	
102	3-283-205-01	KNOB VOLUME	
103	3-283-206-01	HOLDER JOG	
104	3-283-193-01	WINDOW FL (AEP, UK)	
104	3-283-193-11	WINDOW FL (RU, E2, E3, E51, AR, MX)	
105	1-832-897-21	CABLE, FLEXIBLE FLAT (25 CORE) (GT111)	
105	1-835-362-21	WIRE (FLAT TYPE) (31 CORE) (GT222/GT444/GT555)	
106	A-1444-539-A	DISPLAY BOARD, COMPLETE (GT111: AEP, RU)	
106	A-1444-582-A	DISPLAY BOARD, COMPLETE (GT222: AEP, RU)	
106	A-1444-600-A	DISPLAY BOARD, COMPLETE (GT444: AEP, RU, UK)	
106	A-1444-645-A	DISPLAY BOARD, COMPLETE (GT555: E2, E51, MX, AR)	
106	A-1509-003-A	DISPLAY BOARD, COMPLETE (GT111: E2, E3, E51, AR)	
106	A-1509-005-A	DISPLAY BOARD, COMPLETE (GT222: E2, E51, MX, AR)	
106	A-1509-007-A	DISPLAY BOARD, COMPLETE (GT444: E2, E51, MX, AR)	
106	A-1509-481-A	DISPLAY BOARD, COMPLETE (GT555: RU)	
107	3-087-053-01	+BVTP2.6 (3CR)	
FFC001	1-833-945-21	CABLE, FLEXIBLE FLAT (11 CORE) (GT222/GT444/GT555)	
S1051	1-478-133-11	ENCODER, ROTARY (OPERATION DIAL)	

8-4. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
151	X-2188-449-1	FRONT PANEL ASSY (GT111: AEP, RU, E2, E51, AR/GT222)	
151	X-2188-451-1	FRONT PANEL ASSY (GT444)	
151	X-2188-452-1	FRONT PANEL ASSY (GT555)	
151	X-2190-185-1	FRONT PANEL ASSY (GT111: E3)	
152	4-225-252-01	CUSHION (FOOT)	
153	3-283-208-01	INDICATOR JOG	
154	2-638-220-11	KNOB (MIC)	
155	A-1444-543-A	USB CONNECTOR BOARD, COMPLETE	
156	3-087-053-01	+BVTP2.6 (3CR)	

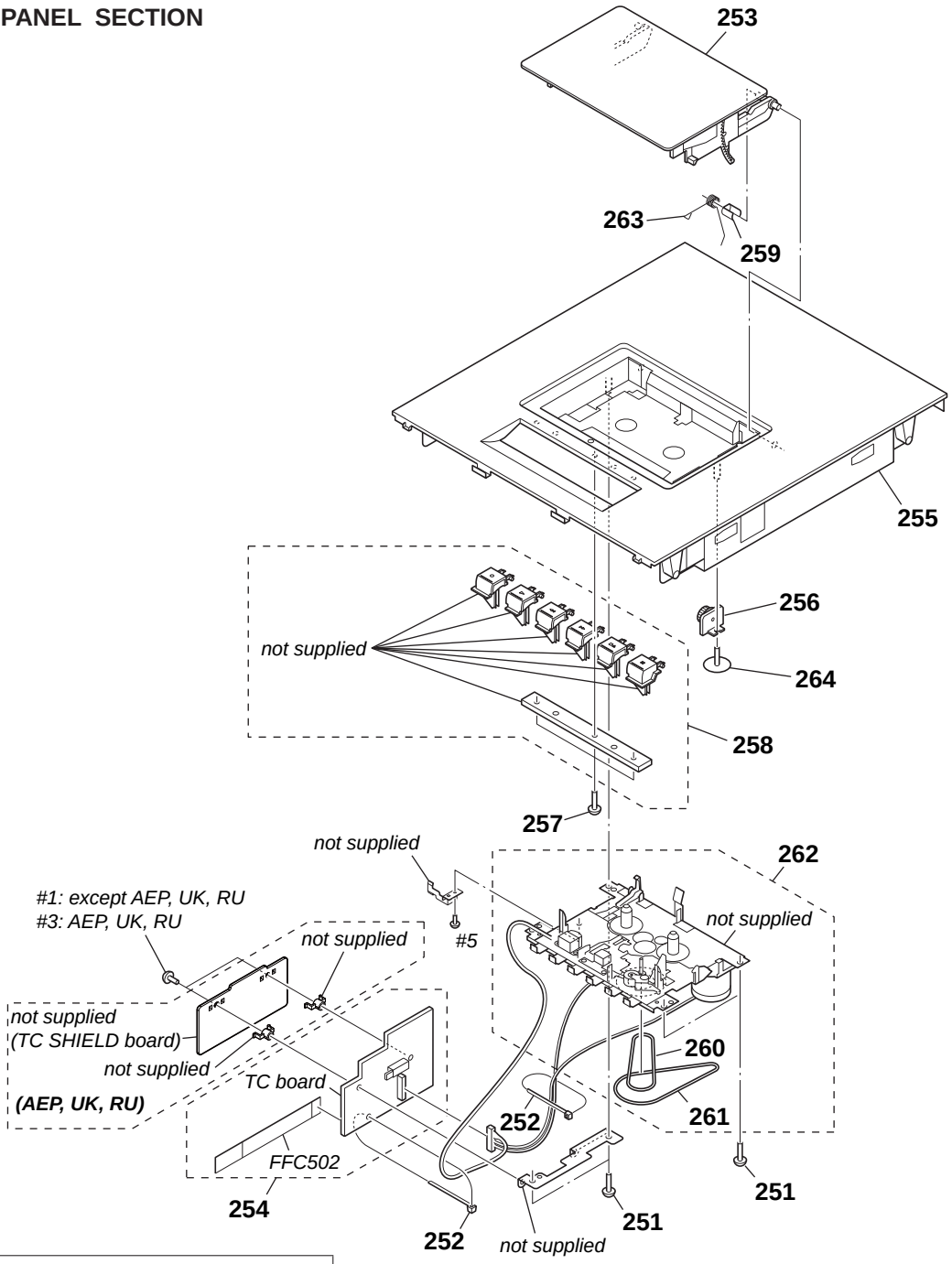
8-5. METER DISPLAY ASSY



Ref. No.	Part No.	Description	Remark
201	A-1433-635-B	METER DISPLAY ASSY (GSL)	(GT222/GT444/GT555)
201	A-1441-018-A	PANEL (GSL1) ASSY, DISPLAY (GT111)	

Ref. No.	Part No.	Description	Remark
202	4-218-253-62	SCREW (M2.6), +BTTP	
M1	A-1439-699-A	MOTOR ASSY (METER) (GT222/GT444/GT555)	
#4	7-685-853-04	SCREW +BVTT 2X6 (S) (GT222/GT444/GT555)	

8-6. TOP PANEL SECTION

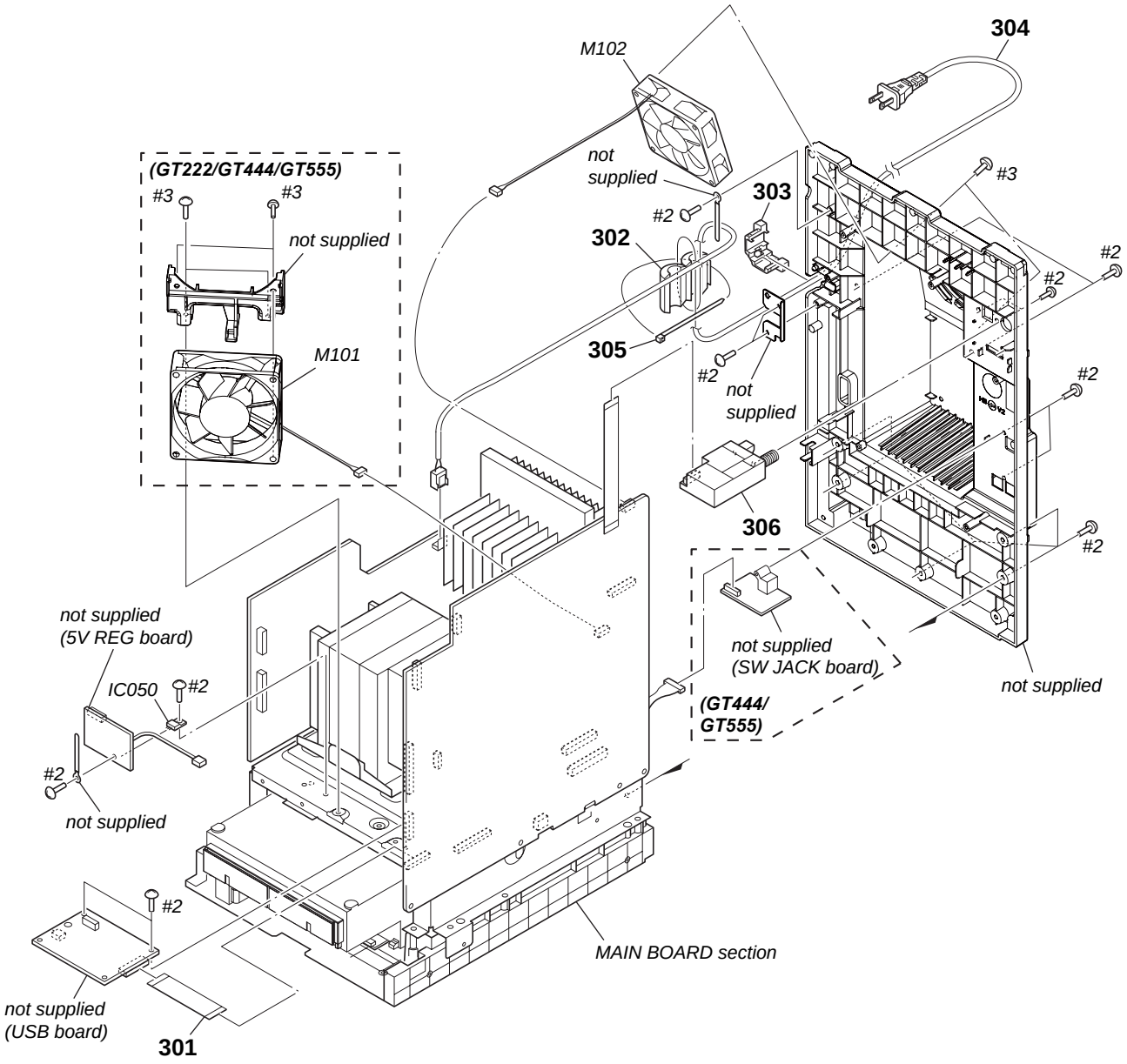


Note: When you exchange Ref .No. 260, 261 or 262, Please refer to "HOW TO DISTINGUISH TAPE MECHANISM DECK" of the service note (6 page).

Ref. No.	Part No.	Description	Remark
251	3-087-053-01	+BVTP2.6 (3CR)	
252	3-701-748-00	CLAMP	
253	2-649-131-21	BOX, CASSETTE	
254	A-1444-545-A	TC BOARD, COMPLETE	
255	3-283-217-01	CASE, TOP	
256	3-047-468-01	DAMPER	
257	3-252-827-01	SCREW (B2.6), (+) BV TAPPING	
258	2-649-132-21	BUTTON (CASS) (●, ▶, ◀◀, ▶▶, ■⏏, ❚❚)	
259	3-917-753-41	CUSHION (SP)	
260	2-688-621-01	BELT (R/F) (for CS-21SC-900TP)	
260	3-214-817-01	BELT (FR) (for TCM-J1)	

Ref. No.	Part No.	Description	Remark
261	2-688-622-01	BELT (MAIN) (for CS-21SC-900TP)	
261	2-670-389-01	BELT (1) (for TCM-J1)	
262	1-797-575-11	DECK, MECHANICAL (CS-21SC-900TP)	
262	A-1527-851-A	TCM-J1 (Tape mechanism deck)	
263	2-649-152-02	SPRING (CASS)	
264	3-921-725-01	SCREW (2.6X10), +PWH	
FFC502	1-832-432-21	CABLE, FLEXIBLE FLAT (9 CORE)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	(EXCEPT AEP, UK, RU)
#3	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3 (AEP, UK, RU)	
#5	7-685-850-04	SCREW +BVTT 2X3 (S)	

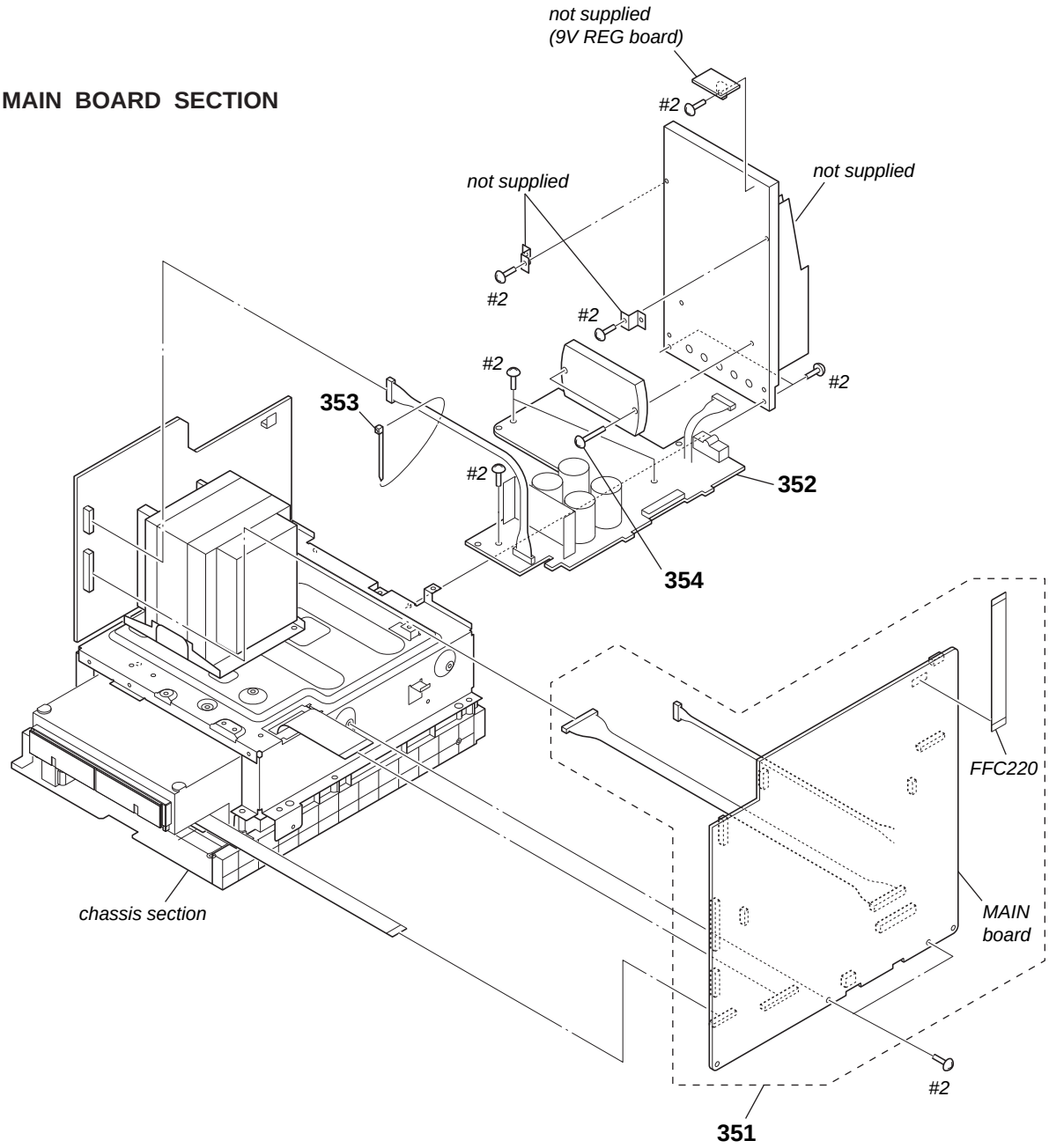
8-7. BACK PANEL SECTION



Ref. No.	Part No.	Description	Remark
301	1-832-613-21	CABLE, FLEXIBLE FLAT (21 CORE)	
302	1-457-369-11	CORE, FERRITE	
303	3-703-571-11	CORD BUSH (4516) (MX)	
303	3-703-244-00	BUSHING (2104), CORD (EXCEPT MX)	
304	1-829-387-11	CORD, POWER (AR)	
304	1-829-627-11	POWER-SUPPLY CORD (MX)	
304	1-834-966-21	CORD, POWER (AEP, RU, E2, E3, E51)	
304	1-835-078-21	CORD, POWER (UK)	
305	3-655-653-11	BAND (TAITON), BINDING	
306	1-693-759-11	TUNER (FM/AM) (AEP, UK)	

Ref. No.	Part No.	Description	Remark
306	1-693-760-11	TUNER (FM/AM) (RU)	
306	1-693-764-21	TUNER (FM/AM) (E2, E3, E51, MX, AR)	
IC050	6-703-547-01	IC TA7805LS	
M101	1-763-372-11	FAN, DC (GT222)	
M101	1-787-344-11	FAN, DC (GT444/GT555)	
M102	1-763-372-11	FAN, DC	
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
#3	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	

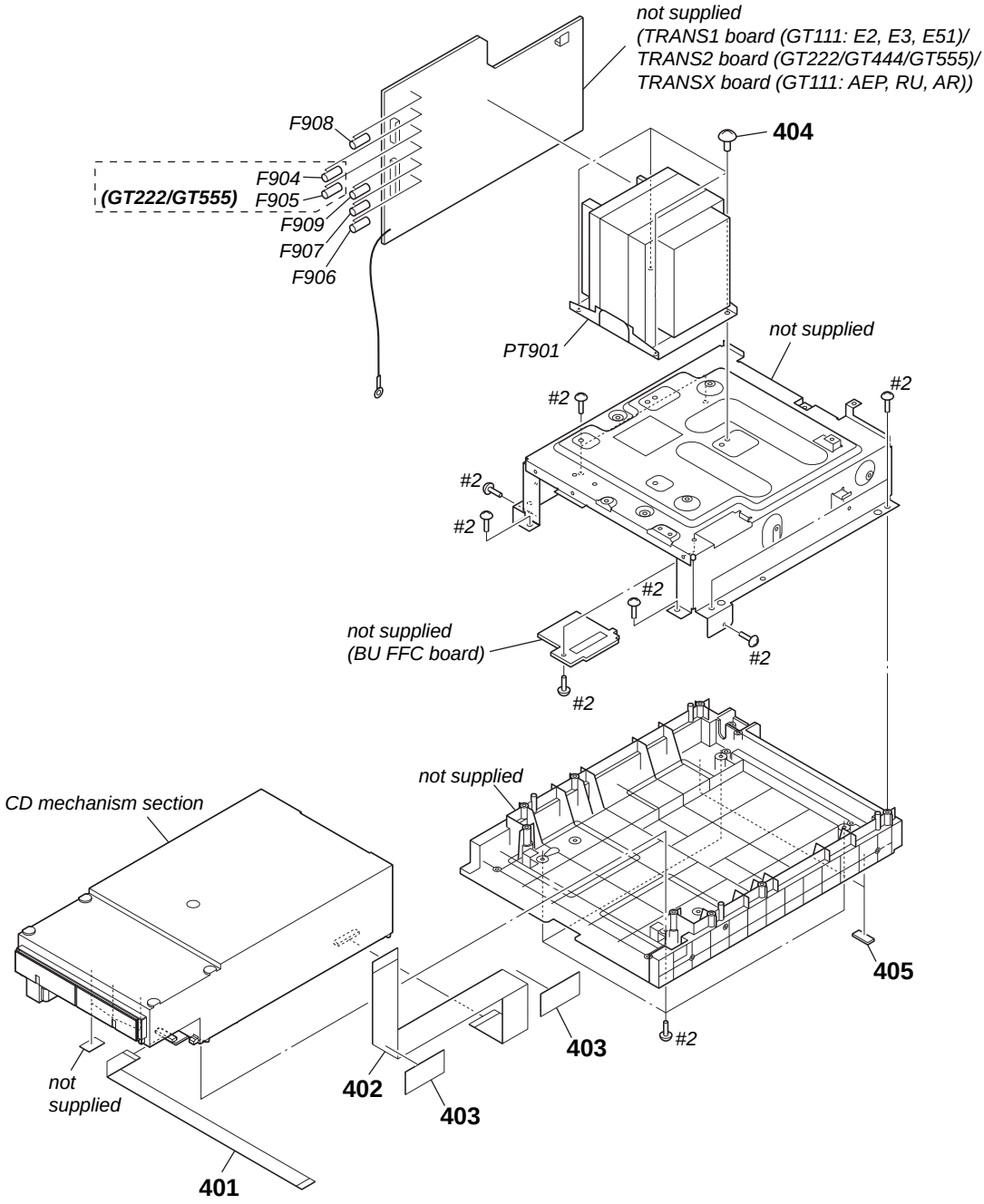
8-8. MAIN BOARD SECTION



Ref. No.	Part No.	Description	Remark
351	A-1444-551-A	MAIN BOARD, COMPLETE (GT111: AEP)	
351	A-1444-569-A	MAIN BOARD, COMPLETE (GT111: E2)	
351	A-1444-577-A	MAIN BOARD, COMPLETE (GT111: E3)	
351	A-1444-588-A	MAIN BOARD, COMPLETE (GT222: AEP)	
351	A-1444-596-A	MAIN BOARD, COMPLETE (GT222: E2)	
351	A-1444-607-A	MAIN BOARD, COMPLETE (GT444: AEP)	
351	A-1444-617-A	MAIN BOARD, COMPLETE (GT444: E2)	
351	A-1444-651-A	MAIN BOARD, COMPLETE (GT555: E2)	
351	A-1444-712-A	MAIN BOARD, COMPLETE (GT555: RU)	
351	A-1538-984-A	MAIN BOARD, COMPLETE (GT111: E51, AR)	
351	A-1538-986-A	MAIN BOARD, COMPLETE (GT111: RU)	
351	A-1538-993-A	MAIN BOARD, COMPLETE (GT222: E51, AR)	
351	A-1538-996-A	MAIN BOARD, COMPLETE (GT222: RU)	
351	A-1539-000-A	MAIN BOARD, COMPLETE (GT444: E51, AR)	
351	A-1539-003-A	MAIN BOARD, COMPLETE (GT444: RU)	
351	A-1539-007-A	MAIN BOARD, COMPLETE (GT555: E51, AR)	
351	A-1539-047-A	MAIN BOARD, COMPLETE (GT444: UK)	
351	A-1541-552-A	MAIN BOARD, COMPLETE (GT555: MX)	
351	A-1541-567-A	MAIN BOARD, COMPLETE (GT444: MX)	
351	A-1541-574-A	MAIN BOARD, COMPLETE (GT222: MX)	
352	A-1444-547-A	POWERAMP BOARD, COMPLETE	(GT111: AEP, RU, E3)
352	A-1444-585-A	POWERAMP BOARD, COMPLETE	(GT222: AEP, RU)

Ref. No.	Part No.	Description	Remark
352	A-1444-603-A	POWERAMP BOARD, COMPLETE	(GT444: AEP, UK, RU)
352	A-1444-648-A	POWERAMP BOARD, COMPLETE	(GT555: E2, E51, AR)
352	A-1545-500-A	POWERAMP BOARD, COMPLETE (GT222: MX)	
352	A-1545-503-A	POWERAMP BOARD, COMPLETE (GT444: MX)	
352	A-1545-506-A	POWERAMP BOARD, COMPLETE (GT555: MX)	
352	A-1545-869-A	POWERAMP BOARD, COMPLETE	(GT111: E2, E51, AR)
352	A-1545-872-A	POWERAMP BOARD, COMPLETE	(GT222: E2, E51, AR)
352	A-1545-875-A	POWERAMP BOARD, COMPLETE	(GT444: E2, E51, AR)
352	A-1545-878-A	POWERAMP BOARD, COMPLETE (GT555: RU)	
353	3-655-653-11	BAND (TAITON), BINDING	
354	3-905-609-31	SCREW (TRANSISTOR) (EXCEPT MX)	
354	3-905-609-41	SCREW (TRANSISTOR) (MX)	
FFC220	1-831-778-21	CABLE, FLEXIBLE FLAT (11 CORE)	(GT111: AEP/GT222: AEP/GT444: AEP, UK)
FFC220	1-835-392-21	WIRE (FLAT TYPE) (9 CORE)	(GT111: RU, E2, E3, E51, AR/ GT222: RU, E2, E51, MX, AR/ GT444: RU, E2, E51, MX, AR/GT555)
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

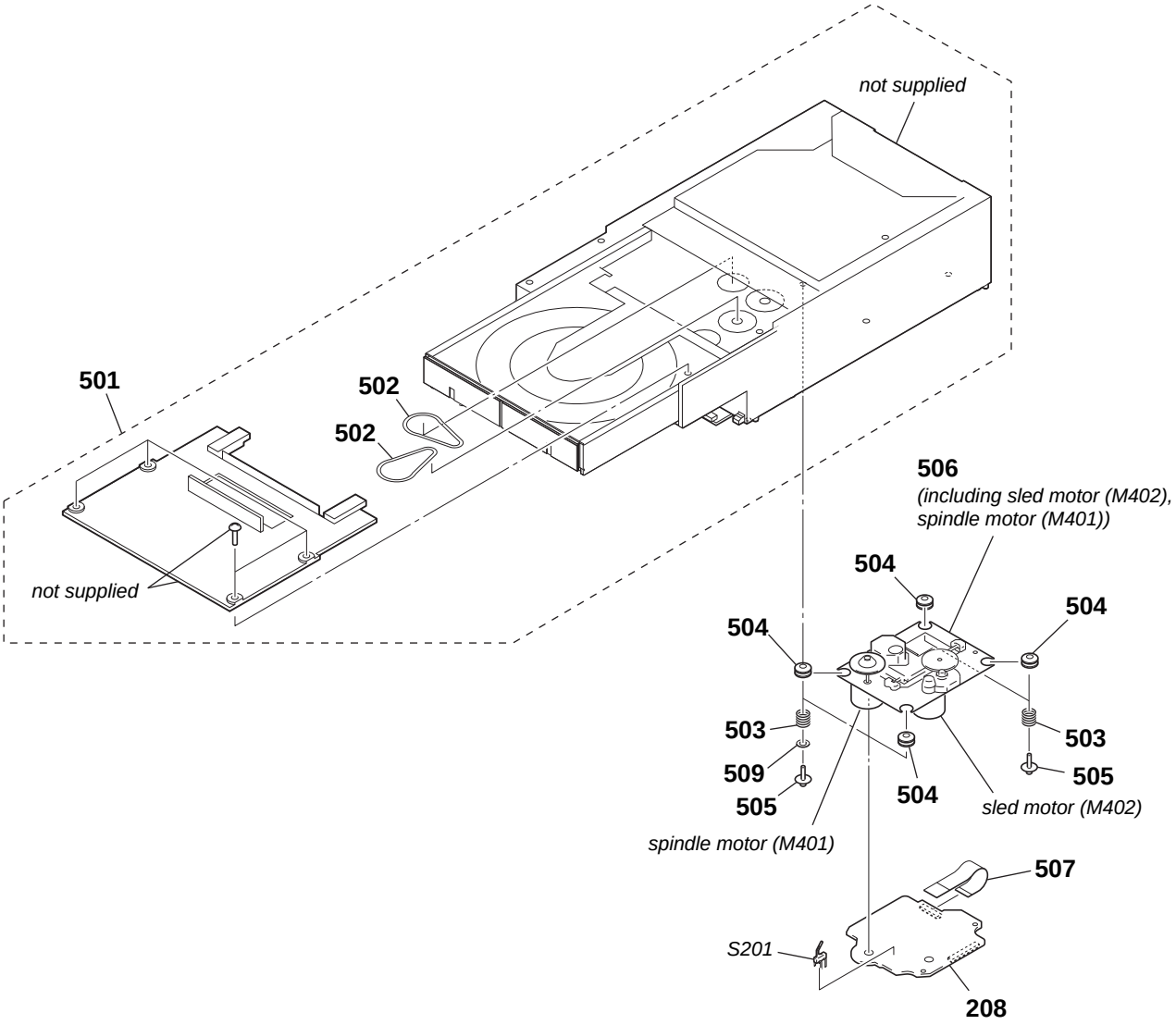
8-9. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
401	1-835-352-21	WIRE (FLAT TYPE) (13 CORE)	
402	1-835-351-21	WIRE (FLAT TYPE) (31 CORE)	
403	3-381-709-01	CUSHION, SARANE	
404	7-685-880-09	SCREW +BVTT 4X6 (S))	
405	4-225-252-01	CUSHION (FOOT)	
⚠ F904	1-532-506-33	FUSE (T6.3AL/250V) (GT222/GT555)	
⚠ F905	1-532-506-33	FUSE (T6.3AL/250V) (GT222/GT555)	
⚠ F906	1-532-465-33	FUSE (T3.15AL/250V)	
⚠ F907	1-532-388-33	FUSE (T2AL/250V)	
⚠ F908	1-532-506-33	FUSE (T6.3AL/250V) (GT111)	
⚠ F908	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V) (GT222/GT444/GT555)	
⚠ F909	1-532-506-33	FUSE(T6.3AL/250V) (GT111)	
⚠ F909	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V) (GT222/GT444/GT555)	

Ref. No.	Part No.	Description	Remark
⚠ PT901	1-445-385-11	POWER TRANSFORMER (GT222: AEP, RU/GT555: RU)	
⚠ PT901	1-445-386-11	POWER TRANSFORMER (GT111: AEP, RU)	
⚠ PT901	1-445-387-11	POWER TRANSFORMER (GT111: E2, E3, E51, AR)	
⚠ PT901	1-445-388-11	POWER TRANSFORMER (GT222: MX/GT555: MX)	
⚠ PT901	1-445-390-11	POWER TRANSFORMER (GT222: E2, E51, AR/GT555: E2, E51, AR)	
⚠ PT901	1-445-391-11	POWER TRANSFORMER (GT444: AEP, UK, RU)	
⚠ PT901	1-445-393-11	POWER TRANSFORMER (GT444: E2, E51, AR)	
⚠ PT901	1-445-394-11	POWER TRANSFORMER (GT444: MX)	
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

8-10. CD MECHANISM SECTION (CDM88A-K6BD93-WOD)



Ref. No.	Part No.	Description	Remark
501	1-797-193-31	MECHANICAL, CD (DLM3A) (MX)	
501	1-797-193-12	MECHANICAL, CD (DLM3A) (EXCEPT MX)	
502	2-632-062-11	BELT (DLM3A)	
503	4-227-045-31	SPRING (INSULATOR), COIL	
504	4-227-549-31	INSULATOR	
505	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	

Ref. No.	Part No.	Description	Remark
⚠ 506	A-4735-357-A	BASE ASSY, OP (KSM-213D)	
507	1-834-268-21	WIRE (FLAT TYPE) (16 CORE)	
508	A-1439-298-A	CD BOARD, COMPLETE	
509	2-584-656-01	WASHER, POLYETHYLENE	
S201	1-771-853-11	SWITCH, DETECTION (LIMIT)	

SECTION 9
ELECTRICAL PARTS LIST

5V REG | 9V REG | CD

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: µF
- COILS
  uH: µH
- 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. . : µA. . , uPA. . , µPA. . ,
  uPB. . : µPB. . , uPC. . , µPC. . ,
  uPD. . : µPD. .
- Abbreviation
  AR : Argentina model
  E2 : 120V AC area in E model
  E3 : 240V AC area in E model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  RU : Russian model

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

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

Ref. No.	Part No.	Description			Remark
		5V REG BOARD			
		**********			
		< CAPACITOR >			
C050	1-126-925-91	ELECT	470uF	20%	10V
C051	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
CN055	1-564-506-11	PLUG, CONNECTOR 3P			
		< DIODE >			
D050	6-501-387-01	DIODE KDR357-RTK/P			
D055	6-500-335-01	DIODE MC2838-T112-1			
		< RESISTOR >			
R050	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R051	1-216-833-11	METAL CHIP	10K	5%	1/10W
**********					
		9V REG BOARD			
		**********			
		< CAPACITOR >			
C080	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C081	1-104-665-11	ELECT	100uF	20%	25V
		< IC >			
IC080	6-703-550-01	IC TA7809LS			
**********					
	A-1439-298-A	CD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C100	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C101	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C102	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C103	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C104	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C105	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C106	1-128-995-21	ELECT CHIP	100uF	20%	10V
C107	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C108	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C109	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C110	1-164-360-11	CERAMIC CHIP	0.1uF		16V

Ref. No.	Part No.	Description			Remark
C112	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C113	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C115	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C116	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C117	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C118	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C119	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C120	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C122	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C123	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C124	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C125	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C127	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C128	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C130	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C132	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C136	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C137	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C138	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C139	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C140	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C141	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C142	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C143	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C144	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C145	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C146	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C147	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C148	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C149	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C150	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C151	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C152	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C153	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C201	1-128-995-21	ELECT CHIP	100uF	20%	10V
C202	1-128-995-21	ELECT CHIP	100uF	20%	10V
C204	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C205	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C206	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C207	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C217	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C218	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C301	1-164-360-11	CERAMIC CHIP	0.1uF		16V

CD

Ref. No.	Part No.	Description			Remark
C302	1-137-710-91	CERAMIC CHIP	10uF	20%	6.3V
C303	1-137-710-91	CERAMIC CHIP	10uF	20%	6.3V
C306	1-128-995-21	ELECT CHIP	100uF	20%	10V
C307	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C309	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C401	1-128-394-11	ELECT CHIP	220uF	20%	10V
C403	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C404	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C405	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C501	1-124-779-00	ELECT CHIP	10uF	20%	16V
C502	1-124-779-00	ELECT CHIP	10uF	20%	16V
C504	1-128-995-21	ELECT CHIP	100uF	20%	10V
C505	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C506	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C507	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C508	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C509	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C510	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C511	1-164-360-11	CERAMIC CHIP	0.1uF		16V
		< CONNECTOR >			
CN201	1-784-879-51	CONNECTOR, FFC (LIF (NON-ZIF)) 31P			
CN301	1-770-425-51	CONNECTOR, FFC/FPC 16P			
		< IC >			
IC101	6-712-082-01	IC TC94A70FG-101			
IC201	6-710-808-01	IC TK63115SCL-G@GT			
IC401	6-710-637-01	IC BA5826SFP-E2			
IC501	6-710-840-01	IC AK5358AET-E2			
IC502	6-707-870-01	IC TC74VHC157FT (EKJ)			
		< TRANSISTOR >			
Q301	6-551-120-01	TRANSISTOR	2SA2119K		
		< RESISTOR/FERRITE BEAD >			
R101	1-216-813-11	METAL CHIP	220	5%	1/10W
R102	1-216-833-11	METAL CHIP	10K	5%	1/10W
R104	1-216-295-91	SHORT CHIP	0		
R105	1-216-857-11	METAL CHIP	1M	5%	1/10W
R106	1-216-821-11	METAL CHIP	1K	5%	1/10W
R108	1-500-445-21	FERRITE, EMI (SMD) (2012)			
R109	1-216-809-11	METAL CHIP	100	5%	1/10W
R110	1-216-833-11	METAL CHIP	10K	5%	1/10W
R111	1-216-809-11	METAL CHIP	100	5%	1/10W
R112	1-216-809-11	METAL CHIP	100	5%	1/10W
R114	1-216-833-11	METAL CHIP	10K	5%	1/10W
R118	1-216-845-11	METAL CHIP	100K	5%	1/10W
R120	1-216-864-11	SHORT CHIP	0		
R121	1-216-809-11	METAL CHIP	100	5%	1/10W
R128	1-216-853-11	METAL CHIP	470K	5%	1/10W
R129	1-216-821-11	METAL CHIP	1K	5%	1/10W
R130	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R134	1-216-857-11	METAL CHIP	1M	5%	1/10W
R135	1-216-853-11	METAL CHIP	470K	5%	1/10W
R136	1-216-837-11	METAL CHIP	22K	5%	1/10W
R139	1-216-841-11	METAL CHIP	47K	5%	1/10W
R140	1-216-864-11	SHORT CHIP	0		
R142	1-216-837-11	METAL CHIP	22K	5%	1/10W
R143	1-216-841-11	METAL CHIP	47K	5%	1/10W
R144	1-216-837-11	METAL CHIP	22K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R151	1-216-864-11	SHORT CHIP	0		
R153	1-216-857-11	METAL CHIP	1M	5%	1/10W
R154	1-216-857-11	METAL CHIP	1M	5%	1/10W
R155	1-216-805-11	METAL CHIP	47	5%	1/10W
R156	1-216-809-11	METAL CHIP	100	5%	1/10W
R157	1-216-809-11	METAL CHIP	100	5%	1/10W
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		
R203	1-216-809-11	METAL CHIP	100	5%	1/10W
R204	1-216-809-11	METAL CHIP	100	5%	1/10W
R205	1-216-809-11	METAL CHIP	100	5%	1/10W
R206	1-216-809-11	METAL CHIP	100	5%	1/10W
R207	1-216-809-11	METAL CHIP	100	5%	1/10W
R208	1-216-809-11	METAL CHIP	100	5%	1/10W
R209	1-216-809-11	METAL CHIP	100	5%	1/10W
R210	1-216-809-11	METAL CHIP	100	5%	1/10W
R211	1-216-809-11	METAL CHIP	100	5%	1/10W
R212	1-216-809-11	METAL CHIP	100	5%	1/10W
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
R222	1-216-845-11	METAL CHIP	100K	5%	1/10W
R223	1-216-845-11	METAL CHIP	100K	5%	1/10W
R224	1-216-809-11	METAL CHIP	100	5%	1/10W
R225	1-216-845-11	METAL CHIP	100K	5%	1/10W
R226	1-216-845-11	METAL CHIP	100K	5%	1/10W
R301	1-216-845-11	METAL CHIP	100K	5%	1/10W
R302	1-216-864-11	SHORT CHIP	0		
R303	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R304	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R402	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R405	1-216-833-11	METAL CHIP	10K	5%	1/10W
R408	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R414	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R415	1-216-841-11	METAL CHIP	47K	5%	1/10W
R502	1-216-841-11	METAL CHIP	47K	5%	1/10W
R503	1-216-841-11	METAL CHIP	47K	5%	1/10W
R505	1-216-841-11	METAL CHIP	47K	5%	1/10W
R508	1-216-841-11	METAL CHIP	47K	5%	1/10W
R509	1-216-845-11	METAL CHIP	100K	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
R512	1-216-821-11	METAL CHIP	1K	5%	1/10W
R513	1-216-809-11	METAL CHIP	100	5%	1/10W
R514	1-216-864-11	SHORT CHIP	0		
		< VIBRATOR >			
X102	1-795-101-21	VIBRATOR, CERAMIC (16.9344MHz)			

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DISPLAY

Ref. No.	Part No.	Description	Remark
	A-1444-539-A	DISPLAY BOARD, COMPLETE (GT111: AEP, RU)	
	A-1444-582-A	DISPLAY BOARD, COMPLETE (GT222: AEP, RU)	
	A-1444-600-A	DISPLAY BOARD, COMPLETE	(GT444: AEP, RU, UK)
	A-1444-645-A	DISPLAY BOARD, COMPLETE	(GT555: E2, E51, MX, AR)
	A-1509-003-A	DISPLAY BOARD, COMPLETE	(GT111: E2, E3, E51, AR)
	A-1509-005-A	DISPLAY BOARD, COMPLETE	(GT222: E2, E51, MX, AR)
	A-1509-007-A	DISPLAY BOARD, COMPLETE	(GT444: E2, E51, MX, AR)
	A-1509-481-A	DISPLAY BOARD, COMPLETE (GT555: RU)	
		**********	
		< CAPACITOR >	
C1101	1-124-257-00	ELECT 2.2uF 20% 50V	
C1102	1-126-961-11	ELECT 2.2uF 20% 50V	
C1140	1-126-965-91	ELECT 22uF 20% 50V	
C1141	1-165-621-91	CERAMIC CHIP 0.1uF 50V	
C1142	1-126-947-11	ELECT 47uF 20% 35V	
C1143	1-164-156-11	CERAMIC CHIP 0.1uF 25V	
C1145	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C1146	1-115-467-11	CERAMIC CHIP 0.22uF 10% 10V	
C1148	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C1149	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C1220	1-126-964-11	ELECT 10uF 20% 50V	(GT222/GT444/GT555)
		< CONNECTOR >	
CN1101	1-784-792-11	CONNECTOR, FFC 31P (GT222/GT444/GT555)	
CN1102	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P	
* CN1106	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P (GT111)	
CN1107	1-784-786-11	CONNECTOR, FFC 25P (GT111)	
CN1108	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P	
		< DIODE >	
D1124	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)	(GT111/GT222/GT444)
D1124	6-502-513-01	LED 1L034PB12E0MTTZ1 (STREAM) (GT555)	
D1125	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)	(GT111/GT222/GT444)
D1125	6-502-513-01	LED 1L034PB12E0MTTZ1 (STREAM) (GT555)	
D1126	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)	(GT111/GT222/GT444)
D1126	6-502-513-01	LED 1L034PB12E0MTTZ1 (STREAM) (GT555)	
D1127	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)	(GT111/GT222/GT444)
D1127	6-502-513-01	LED 1L034PB12E0MTTZ1 (STREAM) (GT555)	
D1128	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)	(GT111/GT222/GT444)
D1128	6-502-513-01	LED 1L034PB12E0MTTZ1 (STREAM) (GT555)	
D1129	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)	(GT111/GT222/GT444)
D1129	6-502-513-01	LED 1L034PB12E0MTTZ1 (STREAM) (GT555)	
D1196	6-501-483-01	LED SLR-325VCT31P (I/⏻, STANDBY)	
D1205	8-719-060-27	LED SLR-325MCT31 (SUBWOOFER)	(GT444/GT555)
D1220	6-501-734-01	DIODE MAZ8056GMLS0 (GT222/GT444/GT555)	
D1221	6-501-743-01	DIODE MAZ8068GMLS0	

Ref. No.	Part No.	Description	Remark
		< FLEXIBLE FLAT CABLE >	
FFC001	1-833-945-21	CABLE, FLEXIBLE FLAT (11 CORE)	(GT222/GT444/GT555)
		< FLUORESCENT INDICATOR TUBE >	
FL1101	1-519-995-11	VACUUM FLUORESCENT DISPLAYS	
		< IC >	
IC1101	6-709-115-11	IC NJU3427FH2	
IC1102	6-600-349-31	IC NJL24H400A	
		< TRANSISTOR >	
Q1102	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1103	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1104	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1105	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1106	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1107	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1108	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1109	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1110	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1111	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1112	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1113	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1114	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
Q1115	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1116	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1117	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
Q1120	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1122	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1139	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1141	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1143	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1190	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q1205	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	(GT444/GT555)
Q1220	8-729-036-86	TRANSISTOR KTC3203Y-AT	(GT222/GT444/GT555)
		< RESISTOR >	
R1102	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1103	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1104	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1105	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1106	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1107	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1108	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1109	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1110	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1111	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1112	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1113	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1114	1-216-817-11	METAL CHIP 470 5% 1/10W	
R1115	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1116	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R1117	1-216-817-11	METAL CHIP 470 5% 1/10W	
R1118	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R1119	1-216-819-11	METAL CHIP 680 5% 1/10W	
R1120	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R1122	1-216-833-11	METAL CHIP 10K 5% 1/10W	

DISPLAY

Ref. No.	Part No.	Description			Remark
R1130	1-216-819-11	METAL CHIP	680	5%	1/10W (GT111/GT222/GT444)
R1130	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT555)
R1131	1-216-819-11	METAL CHIP	680	5%	1/10W (GT111/GT222/GT444)
R1131	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT555)
R1133	1-216-819-11	METAL CHIP	680	5%	1/10W (GT111/GT222/GT444)
R1133	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT555)
R1134	1-216-819-11	METAL CHIP	680	5%	1/10W (GT111/GT222/GT444)
R1134	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT555)
R1136	1-216-819-11	METAL CHIP	680	5%	1/10W (GT111/GT222/GT444)
R1136	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT555)
R1137	1-216-819-11	METAL CHIP	680	5%	1/10W (GT111/GT222/GT444)
R1137	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT555)
R1139	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1141	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1143	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1145	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1146	1-216-809-11	METAL CHIP	100	5%	1/10W
R1147	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1148	1-216-809-11	METAL CHIP	100	5%	1/10W
R1149	1-216-809-11	METAL CHIP	100	5%	1/10W
R1150	1-216-809-11	METAL CHIP	100	5%	1/10W
R1151	1-216-809-11	METAL CHIP	100	5%	1/10W
R1152	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1153	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1154	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1155	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1156	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1157	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1158	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1159	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1160	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1161	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1162	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1163	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1164	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1165	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1166	1-216-819-11	METAL CHIP	680	5%	1/10W
R1167	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1168	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1169	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1170	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1171	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1172	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1173	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1174	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1175	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1177	1-216-819-11	METAL CHIP	680	5%	1/10W
R1178	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1179	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1180	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1181	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1182	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1183	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1184	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1185	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1187	1-216-819-11	METAL CHIP	680	5%	1/10W
R1188	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1189	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1190	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1191	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1192	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1193	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1194	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1195	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1196	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1198	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1200	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1201	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1202	1-216-801-11	METAL CHIP	22	5%	1/10W
R1203	1-216-801-11	METAL CHIP	22	5%	1/10W
R1205	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT444/GT555)
R1206	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT444/GT555)
R1207	1-216-833-11	METAL CHIP	10K	5%	1/10W (GT444/GT555)
R1221	1-247-791-91	CARBON	22	5%	1/4W (GT222/GT444/GT555)
R1222	1-247-791-91	CARBON	22	5%	1/4W (GT222/GT444/GT555)
R1223	1-247-791-91	CARBON	22	5%	1/4W (GT222/GT444/GT555)
R1224	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (GT222/GT444/GT555)

< SWITCH >

S1165	1-762-875-21	SWITCH, KEYBOARD (I/⏻, STANDBY)
S1166	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)
S1167	1-762-875-21	SWITCH, KEYBOARD (METER MODE)
S1168	1-762-875-21	SWITCH, KEYBOARD (OPTIONS)
S1169	1-762-875-21	SWITCH, KEYBOARD (ERASE)
S1170	1-762-875-21	SWITCH, KEYBOARD (CD)
S1171	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)
S1172	1-762-875-21	SWITCH, KEYBOARD (TAPE)
S1173	1-762-875-21	SWITCH, KEYBOARD (TUNING–, ⏮)
S1174	1-762-875-21	SWITCH, KEYBOARD (⏯)
S1175	1-762-875-21	SWITCH, KEYBOARD (FOLDER–, ⏪)
S1176	1-762-875-21	SWITCH, KEYBOARD (PRESET EQ)
S1177	1-762-875-21	SWITCH, KEYBOARD (GROOVE)
S1178	1-762-875-21	SWITCH, KEYBOARD (EQ BAND)
S1179	1-762-875-21	SWITCH, KEYBOARD (SURROUND)
S1180	1-762-875-21	SWITCH, KEYBOARD (AUDIO)
S1182	1-762-875-21	SWITCH, KEYBOARD (USB)
S1183	1-762-875-21	SWITCH, KEYBOARD (TUNING+, ⏭)
S1184	1-762-875-21	SWITCH, KEYBOARD (■)
S1185	1-762-875-21	SWITCH, KEYBOARD (FOLDER+, ⏩)
S1186	1-762-875-21	SWITCH, KEYBOARD (DISC 1)
S1187	1-762-875-21	SWITCH, KEYBOARD (DISC 2)
S1188	1-762-875-21	SWITCH, KEYBOARD (DISC 3)
S1189	1-762-875-21	SWITCH, KEYBOARD (⏏, OPEN/CLOSE)
S1190	1-762-875-21	SWITCH, KEYBOARD (REC TO USB)

Ref. No.	Part No.	Description			Remark
S1191	1-762-875-21	SWITCH, KEYBOARD (ENTER)			
S1192	1-762-875-21	SWITCH, KEYBOARD (RETURN)			
S1193	1-762-875-21	SWITCH, KEYBOARD (SUBWOOFER)			(GT444/GT555)
S1194	1-762-875-21	SWITCH, KEYBOARD (REC TIMER)			
S1195	1-762-875-21	SWITCH, KEYBOARD (DISC/EX-CHANGE)			
**********					
		LED BOARD (GT222/GT444/GT555)			
		*********			
		< LED >			
D011	6-502-464-01	LED SELT2WA10C-2 (ILLUMINATION)			
D012	6-502-464-01	LED SELT2WA10C-2 (ILLUMINATION)			
D013	6-502-464-01	LED SELT2WA10C-2 (ILLUMINATION)			
D014	6-501-691-51	LED 1L434FV22D0TDE01 (ILLUMINATION)			
D015	6-501-691-51	LED 1L434FV22D0TDE01 (ILLUMINATION)			
		< JUMPER RESISTOR >			
JR101	1-216-295-91	SHORT CHIP	0		
		< TRANSISTOR >			
Q010	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
		< RESISTOR >			
R010	1-216-817-11	METAL CHIP	470	5%	1/10W
R011	1-216-817-11	METAL CHIP	470	5%	1/10W
R012	1-216-817-11	METAL CHIP	470	5%	1/10W
R013	1-216-817-11	METAL CHIP	470	5%	1/10W
R014	1-216-817-11	METAL CHIP	470	5%	1/10W
R015	1-216-817-11	METAL CHIP	470	5%	1/10W
R016	1-216-816-11	METAL CHIP	390	5%	1/10W
R017	1-216-816-11	METAL CHIP	390	5%	1/10W
R019	1-216-821-11	METAL CHIP	1K	5%	1/10W
R020	1-216-833-11	METAL CHIP	10K	5%	1/10W
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		LED (GSL1) BOARD (GT111)			
		**********			
		< LED >			
D011	6-502-464-01	LED SELT2WA10C-2 (ILLUMINATION)			
D012	6-502-464-01	LED SELT2WA10C-2 (ILLUMINATION)			
D013	6-502-464-01	LED SELT2WA10C-2 (ILLUMINATION)			
D014	6-501-691-51	LED 1L434FV22D0TDE01 (ILLUMINATION)			
		< JUMPER RESISTOR >			
JR101	1-216-295-91	SHORT CHIP	0		
		< TRANSISTOR >			
Q010	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
		< RESISTOR >			
R010	1-216-817-11	METAL CHIP	470	5%	1/10W
R011	1-216-817-11	METAL CHIP	470	5%	1/10W
R012	1-216-817-11	METAL CHIP	470	5%	1/10W
R013	1-216-817-11	METAL CHIP	470	5%	1/10W
R014	1-216-817-11	METAL CHIP	470	5%	1/10W
R015	1-216-817-11	METAL CHIP	470	5%	1/10W
R016	1-216-819-11	METAL CHIP	680	5%	1/10W
R017	1-216-819-11	METAL CHIP	680	5%	1/10W
R019	1-216-821-11	METAL CHIP	1K	5%	1/10W
R020	1-216-833-11	METAL CHIP	10K	5%	1/10W
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	A-1444-551-A	MAIN BOARD, COMPLETE (GT111: AEP)			
	A-1444-569-A	MAIN BOARD, COMPLETE (GT111: E2)			
	A-1444-577-A	MAIN BOARD, COMPLETE (GT111: E3)			
	A-1444-588-A	MAIN BOARD, COMPLETE (GT222: AEP)			
	A-1444-596-A	MAIN BOARD, COMPLETE (GT222: E2)			
	A-1444-607-A	MAIN BOARD, COMPLETE (GT444: AEP)			
	A-1444-617-A	MAIN BOARD, COMPLETE (GT444: E2)			
	A-1444-651-A	MAIN BOARD, COMPLETE (GT555: E2)			
	A-1444-712-A	MAIN BOARD, COMPLETE (GT555: RU)			
	A-1538-984-A	MAIN BOARD, COMPLETE (GT111: E51, AR)			
	A-1538-986-A	MAIN BOARD, COMPLETE (GT111: RU)			
	A-1538-993-A	MAIN BOARD, COMPLETE (GT222: E51, AR)			
	A-1538-996-A	MAIN BOARD, COMPLETE (GT222: RU)			
	A-1539-000-A	MAIN BOARD, COMPLETE (GT444: E51, AR)			
	A-1539-003-A	MAIN BOARD, COMPLETE (GT444: RU)			
	A-1539-007-A	MAIN BOARD, COMPLETE (GT555: E51, AR)			
	A-1539-047-A	MAIN BOARD, COMPLETE (GT444: UK)			
	A-1541-552-A	MAIN BOARD, COMPLETE (GT555: MX)			
	A-1541-567-A	MAIN BOARD, COMPLETE (GT444: MX)			
	A-1541-574-A	MAIN BOARD, COMPLETE (GT222: MX)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
C101	1-126-965-91	ELECT	22uF	20%	50V
C102	1-126-963-11	ELECT	4.7uF	20%	50V
C109	1-126-964-11	ELECT	10uF	20%	50V
C112	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GT222/GT444/GT555)
C113	1-126-947-11	ELECT	47uF	20%	35V (GT222/GT444/GT555)
C114	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GT222/GT444/GT555)
C117	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C118	1-126-961-11	ELECT	2.2uF	20%	50V
C119	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V (GT111: AEP, RU/GT222: AEP, RU/ GT444: AEP, RU, UK/GT555: RU)
C121	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C122	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C123	1-126-964-11	ELECT	10uF	20%	50V (GT444/GT555)
C124	1-126-960-11	ELECT	1uF	20%	50V
C127	1-136-165-00	MYLAR	0.1uF	5%	50V (GT444)
C127	1-136-166-00	MYLAR	0.12uF	5%	50V (GT111/GT222/GT555)
C128	1-136-167-00	MYLAR	0.15uF	5%	50V (GT111/GT222)
C128	1-136-166-00	MYLAR	0.12uF	5%	50V (GT444/GT555)
C129	1-126-961-11	ELECT	2.2uF	20%	50V
C131	1-126-964-11	ELECT	10uF	20%	50V
C132	1-130-491-00	MYLAR	0.047uF	5%	50V
C133	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C134	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C135	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V (GT222/GT444)
C135	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

MAIN

Ref. No.	Part No.	Description			Remark
					(GT111/GT555)
C137	1-126-964-11	ELECT	10uF	20%	50V
C139	1-126-961-11	ELECT	2.2uF	20%	50V
C142	1-126-964-11	ELECT	10uF	20%	50V
C143	1-126-964-11	ELECT	10uF	20%	50V
C144	1-126-964-11	ELECT	10uF	20%	50V
C145	1-126-964-11	ELECT	10uF	20%	50V
C146	1-126-964-11	ELECT	10uF	20%	50V
C147	1-126-959-11	ELECT	0.47uF	20%	50V
C148	1-104-658-91	ELECT	100uF	20%	10V
C149	1-104-658-91	ELECT	100uF	20%	10V
C150	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C151	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C152	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C153	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C154	1-126-934-11	ELECT	220uF	20%	16V
C169	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
			(GT111: AEP, RU/GT222: AEP, RU/ GT444: AEP, RU, UK/GT555: RU)		
C177	1-136-167-00	MYLAR	0.15uF	5%	50V
					(GT111/GT222)
C177	1-136-166-00	MYLAR	0.12uF	5%	50V
					(GT444/GT555)
C178	1-136-165-00	MYLAR	0.1uF	5%	50V
					(GT444)
C178	1-136-166-00	MYLAR	0.12uF	5%	50V
					(GT111/GT222/GT555)
C179	1-126-961-11	ELECT	2.2uF	20%	50V
C180	1-126-960-11	ELECT	1uF	20%	50V
					(GT111/GT222)
C180	1-126-963-11	ELECT	4.7uF	20%	50V
					(GT444/GT555)
C181	1-126-964-11	ELECT	10uF	20%	50V
C182	1-130-491-00	MYLAR	0.047uF	5%	50V
C183	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C184	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C185	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
					(GT222/GT444)
C185	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
					(GT111/GT555)
C187	1-126-964-11	ELECT	10uF	20%	50V
C192	1-126-964-11	ELECT	10uF	20%	50V
C193	1-126-964-11	ELECT	10uF	20%	50V
C194	1-126-964-11	ELECT	10uF	20%	50V
C195	1-126-964-11	ELECT	10uF	20%	50V
C201	1-126-961-11	ELECT	2.2uF	20%	50V
C206	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C209	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C211	1-126-964-11	ELECT	10uF	20%	50V
C212	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C213	1-126-964-11	ELECT	10uF	20%	50V
C214	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C215	1-126-964-11	ELECT	10uF	20%	50V
C216	1-126-916-11	ELECT	1000uF	20%	6.3V
C218	1-126-947-11	ELECT	47uF	20%	35V
C220	1-126-947-11	ELECT	47uF	20%	35V
C221	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C222	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C223	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C224	1-126-961-11	ELECT	2.2uF	20%	50V
C225	1-126-935-11	ELECT	470uF	20%	16V
C227	1-126-961-11	ELECT	2.2uF	20%	50V

Ref. No.	Part No.	Description			Remark
C241	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C242	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C243	1-100-717-91	CERAMIC CHIP	1uF		16V
C256	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C258	1-126-947-11	ELECT	47uF	20%	35V
C259	1-126-935-11	ELECT	470uF	20%	16V
C270	1-126-947-11	ELECT	47uF	20%	35V
C271	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C272	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C273	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C274	1-126-961-11	ELECT	2.2uF	20%	50V
C275	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C277	1-126-961-11	ELECT	2.2uF	20%	50V
C281	1-162-913-11	CERAMIC CHIP	8PF	0.5PF	50V
					(GT444/GT555)
C284	1-104-658-91	ELECT	100uF	20%	10V
					(GT444/GT555)
C286	1-126-947-11	ELECT	47uF	20%	35V
					(GT444/GT555)
C287	1-126-964-11	ELECT	10uF	20%	50V
					(GT444/GT555)
C293	1-100-717-91	CERAMIC CHIP	1uF		16V
C299	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C321	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C380	1-136-497-81	FILM	0.1uF	5%	50V
					(GT444/GT555)
C382	1-136-164-00	FILM	0.082uF	5%	50V
					(GT444)
C382	1-136-497-81	FILM	0.1uF	5%	50V
					(GT555)
C383	1-136-495-11	FILM	0.068uF	5%	50V
					(GT444/GT555)
C410	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C411	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C412	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C414	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C416	1-104-656-11	ELECT	2200uF	20%	6.3V
C420	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C422	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C423	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C424	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C425	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C426	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C427	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C428	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C451	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C462	1-104-658-91	ELECT	100uF	20%	10V
C464	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C471	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C483	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C496	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C498	1-126-964-11	ELECT	10uF	20%	50V
C499	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C566	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C576	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C602	1-128-548-11	ELECT	4700uF	20%	25V
C604	1-130-483-00	MYLAR	0.01uF	5%	50V
C605	1-130-483-00	MYLAR	0.01uF	5%	50V
C608	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C609	1-104-665-11	ELECT	100uF	20%	25V
C610	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V

Ref. No.	Part No.	Description			Remark
C611	1-104-658-91	ELECT	100uF	20%	10V
C612	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C615	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C616	1-128-548-11	ELECT	4700uF	20%	25V
C617	1-130-483-00	MYLAR	0.01uF	5%	50V
C618	1-130-483-00	MYLAR	0.01uF	5%	50V
C620	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C640	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C641	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C642	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C647	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C648	1-162-960-11	CERAMIC CHIP	220PF	10%	50V (GT222/GT444/GT555)
C649	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GT222/GT444/GT555)
C652	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C654	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C655	1-126-923-91	ELECT	220uF	20%	10V
C656	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C663	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C664	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C665	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C671	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C677	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C678	1-126-926-11	ELECT	1000uF	20%	10V
C679	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C681	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C687	1-126-964-11	ELECT	10uF	20%	50V
C690	1-126-965-91	ELECT	22uF	20%	50V
C692	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C693	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C694	1-126-947-11	ELECT	47uF	20%	35V
C696	1-126-965-91	ELECT	22uF	20%	50V
C697	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C698	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C699	1-124-261-00	ELECT	10uF	20%	25V
C701	1-136-495-11	FILM	0.068uF	5%	50V (GT444/GT555)
		< CONNECTOR >			
CN110	1-564-506-11	PLUG, CONNECTOR 3P (GT222/GT444/GT555)			
CN402	1-779-277-11	CONNECTOR, FFC (LIF (NON-ZIF)) 9P			
CN403	1-784-786-11	CONNECTOR, FFC 25P (GT111)			
CN403	1-784-792-11	CONNECTOR, FFC 31P (GT222/GT444/GT555)			
CN410	1-784-774-11	CONNECTOR, FFC 13P			
CN420	1-779-289-11	CONNECTOR, FFC (LIF (NON-ZIF)) 21P			
CN430	1-779-299-11	CONNECTOR, FFC (LIF (NON-ZIF)) 31P			
CN450	1-784-770-11	CONNECTOR, FFC 9P			
* CN470	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			
CN479	1-569-497-11	SOCKET, CONNECTOR 11P (GT111/GT222)			
* CN479	1-573-094-11	SOCKET, CONNECTOR 13P (GT444/GT555)			
* CN488	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN600	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
CN690	1-564-506-11	PLUG, CONNECTOR 3P			
		< DIODE >			
D110	6-501-772-01	DIODE MAZ8130GMLS0 (GT222/GT444/GT555)			
D116	6-501-579-01	DIODE MC2837			
D201	6-501-579-01	DIODE MC2837			
D202	6-501-817-01	DIODE MA2J1110GLS0			

Ref. No.	Part No.	Description	Remark
D211	6-501-722-01	DIODE MAZ8043GMLS0	
D212	6-501-817-01	DIODE MA2J1110GLS0	
D213	6-500-334-01	DIODE MC2836-T112-1	
D468	6-501-817-01	DIODE MA2J1110GLS0	
D483	6-501-817-01	DIODE MA2J1110GLS0	
D601	6-500-385-01	DIODE D3SBA20-4100	
D602	8-719-028-23	DIODE D3SBA20-4101	
D605	6-501-817-01	DIODE MA2J1110GLS0	
D608	6-501-726-01	DIODE MAZ8047GMLS0	
D623	8-719-063-79	DIODE 1N4002B	
D624	8-719-063-79	DIODE 1N4002B	
D628	6-501-817-01	DIODE MA2J1110GLS0	
D630	6-501-817-01	DIODE MA2J1110GLS0	
D632	6-500-335-01	DIODE MC2838-T112-1	
D651	8-719-063-79	DIODE 1N4002B	
D690	6-501-738-01	DIODE MAZ8062GMLS0	
D691	6-501-743-01	DIODE MAZ8068GMLS0	
D692	6-501-734-01	DIODE MAZ8056GMLS0	
D694	6-501-817-01	DIODE MA2J1110GLS0	
D695	6-501-579-01	DIODE MC2837	
		< GROUND TERMINAL >	
ET601	1-537-771-21	TERMINAL BOARD, GROUND	
ET602	1-537-771-21	TERMINAL BOARD, GROUND	
		< FLEXIBLE FLAT CABLE >	
FFC220	1-831-778-21	CABLE, FLEXIBLE FLAT (11 CORE) (GT111: AEP/GT222: AEP/GT444: AEP, UK)	
FFC220	1-835-392-21	WIRE (FLAT TYPE) (9 CORE) (EXCEPT GT111: AEP/GT222: AEP/GT444: AEP, UK)	
		< IC >	
IC251	8-759-278-58	IC NJM4558V-TE2	
IC252	8-759-278-58	IC NJM4558V-TE2	
IC253	8-759-278-58	IC NJM4558V-TE2 (GT444/GT555)	
IC401	A-1553-565-A	IC R5F3640MDFA (for SERVICE)	
IC407	6-712-027-01	IC R2A15216FP	
IC602	6-703-550-01	IC TA7809LS	
IC603	6-702-771-01	IC TA78033LS	
IC670	8-759-523-03	IC TC74HC4066AFT (EL)	
IC672	8-759-523-03	IC TC74HC4066AFT (EL)	
IC673	6-707-870-01	IC TC74VHC157FT (EKJ)	
IC675	(Not supplied)	IC S-24CS16A0I-J8T1G	
		< JUMPER RESISTOR/CAPACITOR >	
JR102	1-216-864-11	SHORT CHIP 0	
JR103	1-216-864-11	SHORT CHIP 0	
JR104	1-216-296-11	SHORT CHIP 0	
JR105	1-216-296-11	SHORT CHIP 0	
JR106	1-216-296-11	SHORT CHIP 0	
JR107	1-216-296-11	SHORT CHIP 0	
JR109	1-216-296-11	SHORT CHIP 0	
JR110	1-216-296-11	SHORT CHIP 0	
JR111	1-216-296-11	SHORT CHIP 0	
JR112	1-216-864-11	SHORT CHIP 0	
JR113	1-216-296-11	SHORT CHIP 0	
JR114	1-216-864-11	SHORT CHIP 0	
JR115	1-216-296-11	SHORT CHIP 0	
JR116	1-216-296-11	SHORT CHIP 0	

MAIN

Ref. No.	Part No.	Description			Remark
JR117	1-216-296-11	SHORT CHIP	0		
JR118	1-216-864-11	SHORT CHIP	0		
JR119	1-216-296-11	SHORT CHIP	0		
JR120	1-216-296-11	SHORT CHIP	0		
JR121	1-216-864-11	SHORT CHIP	0		
JR122	1-216-864-11	SHORT CHIP	0		
JR123	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
JR362	1-216-296-11	SHORT CHIP	0		
JR363	1-216-864-11	SHORT CHIP	0		
JR441	1-216-864-11	SHORT CHIP	0		
JR621	1-216-296-11	SHORT CHIP	0		
JR622	1-216-864-11	SHORT CHIP	0		
JR623	1-216-864-11	SHORT CHIP	0		
JR624	1-216-864-11	SHORT CHIP	0		
JR626	1-216-864-11	SHORT CHIP	0		
JR627	1-216-864-11	SHORT CHIP	0		
JR628	1-216-864-11	SHORT CHIP	0		
JR629	1-216-864-11	SHORT CHIP	0		
JR630	1-216-296-11	SHORT CHIP	0		
JR661	1-216-864-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q110	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF (GT222/GT444/GT555)		
Q111	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF (GT222/GT444/GT555)		
Q112	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF (GT222/GT444/GT555)		
Q113	8-729-040-76	TRANSISTOR	KTA1273-Y-AT (GT222/GT444/GT555)		
Q115	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q116	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q128	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q178	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q210	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q211	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q212	8-729-037-13	TRANSISTOR	KTA1271Y		
Q214	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q215	8-729-038-28	TRANSISTOR	RT1N441C-TP-1		
Q402	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q430	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF (GT444/GT555)		
Q447	6-551-681-01	TRANSISTOR	RT1P431C-TP-1		
Q452	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q606	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q627	8-729-037-13	TRANSISTOR	KTA1271Y		
Q628	6-551-276-01	TRANSISTOR	RT1N431C-TP-1		
Q640	8-729-024-43	TRANSISTOR	2SA1365-T112-1EF		
Q641	8-729-024-43	TRANSISTOR	2SA1365-T112-1EF		
Q643	8-729-047-62	TRANSISTOR	2SC3440-T12-1F		
Q644	8-729-047-62	TRANSISTOR	2SC3440-T12-1F		
Q645	8-729-024-43	TRANSISTOR	2SA1365-T112-1EF		
Q646	8-729-024-43	TRANSISTOR	2SA1365-T112-1EF		
Q647	8-729-047-62	TRANSISTOR	2SC3440-T12-1F		
Q648	8-729-047-62	TRANSISTOR	2SC3440-T12-1F		
Q655	8-729-040-76	TRANSISTOR	KTA1273-Y-AT		
Q656	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q657	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q658	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q670	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q671	6-551-276-01	TRANSISTOR	RT1N431C-TP-1		

Ref. No.	Part No.	Description			Remark
Q681	6-551-276-01	TRANSISTOR	RT1N431C-TP-1		
Q684	8-729-037-13	TRANSISTOR	KTA1271Y		
Q690	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q691	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q693	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q694	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q695	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q696	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q697	8-729-040-76	TRANSISTOR	KTA1273-Y-AT		
		< RESISTOR/CAPACITOR >			
R108	1-216-833-11	METAL CHIP	10K	5%	1/10W
R110	1-216-845-11	METAL CHIP	100K	5%	1/10W
R111	1-216-845-11	METAL CHIP	100K	5%	1/10W
R112	1-216-817-11	METAL CHIP	470	5%	1/10W
R113	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R114	1-216-819-11	METAL CHIP	680	5%	1/10W
R116	1-216-809-11	METAL CHIP	100	5%	1/10W
R117	1-216-835-11	METAL CHIP	15K	5%	1/10W
R119	1-216-809-11	METAL CHIP	100	5%	1/10W
R121	1-216-821-11	METAL CHIP	1K	5%	1/10W
R122	1-216-821-11	METAL CHIP	1K	5%	1/10W
R127	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R128	1-216-835-11	METAL CHIP	15K	5%	1/10W
R129	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R132	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R133	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R134	1-216-833-11	METAL CHIP	10K	5%	1/10W
R135	1-216-833-11	METAL CHIP	10K	5%	1/10W
R136	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R137	1-216-833-11	METAL CHIP	10K	5%	1/10W
R138	1-216-841-11	METAL CHIP	47K	5%	1/10W
R144	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R145	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R153	1-216-833-11	METAL CHIP	10K	5%	1/10W
R155	1-249-401-11	CARBON	47	5%	1/4W (GT222/GT444/GT555)
R156	1-249-401-11	CARBON	47	5%	1/4W (GT222/GT444/GT555)
R157	1-249-401-11	CARBON	47	5%	1/4W (GT222/GT444/GT555)
R158	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT222/GT444/GT555)
R159	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT222/GT444/GT555)
R165	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GT222/GT444/GT555)
R166	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GT222/GT444/GT555)
R167	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GT222/GT444/GT555)
R177	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R178	1-216-835-11	METAL CHIP	15K	5%	1/10W
R179	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R182	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R183	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R184	1-216-833-11	METAL CHIP	10K	5%	1/10W
R185	1-216-833-11	METAL CHIP	10K	5%	1/10W
R186	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R187	1-216-833-11	METAL CHIP	10K	5%	1/10W
R188	1-216-841-11	METAL CHIP	47K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R190	1-216-857-11	METAL CHIP	1M	5%	1/10W
R192	1-216-842-11	METAL CHIP	56K	5%	1/10W
R194	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R195	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R200	1-216-801-11	METAL CHIP	22	5%	1/10W
R201	1-216-841-11	METAL CHIP	47K	5%	1/10W
R202	1-216-809-11	METAL CHIP	100	5%	1/10W
R203	1-216-817-11	METAL CHIP	470	5%	1/10W
R204	1-216-839-11	METAL CHIP	33K	5%	1/10W
R206	1-216-833-11	METAL CHIP	10K	5%	1/10W
R207	1-216-841-11	METAL CHIP	47K	5%	1/10W
R208	1-216-838-11	METAL CHIP	27K	5%	1/10W
R210	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R211	1-216-845-11	METAL CHIP	100K	5%	1/10W
R212	1-216-833-11	METAL CHIP	10K	5%	1/10W
R213	1-216-845-11	METAL CHIP	100K	5%	1/10W
R214	1-216-819-11	METAL CHIP	680	5%	1/10W
R215	1-216-833-11	METAL CHIP	10K	5%	1/10W
R216	1-216-837-11	METAL CHIP	22K	5%	1/10W
R217	1-216-864-11	SHORT CHIP	0		
R218	1-216-833-11	METAL CHIP	10K	5%	1/10W
R220	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GT111/GT222)
R220	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (GT555)
R220	1-216-832-11	METAL CHIP	8.2K	5%	1/10W (GT444)
R221	1-216-817-11	METAL CHIP	470	5%	1/10W
R222	1-216-833-11	METAL CHIP	10K	5%	1/10W (GT111)
R222	1-216-837-11	METAL CHIP	22K	5%	1/10W (GT222/GT444/GT555)
R223	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GT111: AEP/GT222: AEP/GT444: AEP, UK)
R223	1-216-826-11	METAL CHIP	2.7K	5%	1/10W (GT111: E3, E51, AR/GT222: E51, MX, AR/ GT444: E51, MX, AR/GT555: E51, MX, AR)
R223	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GT111: RU, E2/GT222: RU, E2/GT444: RU, E2/ GT555: RU, E2)
R224	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GT111: AEP/GT222: AEP/GT444: AEP, UK)
R224	1-216-826-11	METAL CHIP	2.7K	5%	1/10W (GT111: E3, E51, AR/GT222: E51, MX, AR/ GT444: E51, MX, AR/GT555: E51, MX, AR)
R224	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GT111: RU, E2/GT222: RU, E2/GT444: RU, E2/ GT555: RU, E2)
R225	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GT111: RU, E2/GT222: RU, E2/GT444: RU, E2/ GT555: RU, E2)
R225	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (GT111: AEP, E3, E51, AR/GT222: AEP, E51, MX, AR/GT444: AEP, UK, E51, MX, AR/ GT555: E51, MX, AR)
R226	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GT111: RU, E2/GT222: RU, E2/GT444: RU, E2/ GT555: RU, E2)
R226	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (GT111: AEP, E3, E51, AR/GT222: AEP, E51, MX, AR/GT444: AEP, UK, E51, MX, AR/ GT555: E51, MX, AR)
R227	1-216-841-11	METAL CHIP	47K	5%	1/10W
R228	1-216-821-11	METAL CHIP	1K	5%	1/10W
R229	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R241	1-216-845-11	METAL CHIP	100K	5%	1/10W
R242	1-216-845-11	METAL CHIP	100K	5%	1/10W
R243	1-216-845-11	METAL CHIP	100K	5%	1/10W
R244	1-216-845-11	METAL CHIP	100K	5%	1/10W
R250	1-216-833-11	METAL CHIP	10K	5%	1/10W
R256	1-216-833-11	METAL CHIP	10K	5%	1/10W
R257	1-216-841-11	METAL CHIP	47K	5%	1/10W
R258	1-216-838-11	METAL CHIP	27K	5%	1/10W
R263	1-216-817-11	METAL CHIP	470	5%	1/10W
R270	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GT111/GT222)
R270	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (GT555)
R270	1-216-832-11	METAL CHIP	8.2K	5%	1/10W (GT444)
R271	1-216-817-11	METAL CHIP	470	5%	1/10W
R272	1-216-833-11	METAL CHIP	10K	5%	1/10W (GT111)
R272	1-216-837-11	METAL CHIP	22K	5%	1/10W (GT222/GT444/GT555)
R276	1-216-841-11	METAL CHIP	47K	5%	1/10W
R277	1-216-841-11	METAL CHIP	47K	5%	1/10W
R278	1-216-821-11	METAL CHIP	1K	5%	1/10W
R279	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R280	1-216-830-11	METAL CHIP	5.6K	5%	1/10W (GT444/GT555)
R282	1-216-845-11	METAL CHIP	100K	5%	1/10W (GT444/GT555)
R283	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (GT444/GT555)
R284	1-216-832-11	METAL CHIP	8.2K	5%	1/10W (GT444/GT555)
R285	1-216-841-11	METAL CHIP	47K	5%	1/10W (GT444/GT555)
R286	1-216-841-11	METAL CHIP	47K	5%	1/10W (GT444/GT555)
R287	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT444/GT555)
R288	1-216-841-11	METAL CHIP	47K	5%	1/10W (GT444/GT555)
R289	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GT444/GT555)
R291	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (GT444/GT555)
R292	1-216-833-11	METAL CHIP	10K	5%	1/10W (GT444/GT555)
R322	1-216-837-11	METAL CHIP	22K	5%	1/10W
R323	1-216-837-11	METAL CHIP	22K	5%	1/10W
R324	1-216-837-11	METAL CHIP	22K	5%	1/10W
R325	1-216-837-11	METAL CHIP	22K	5%	1/10W
R326	1-216-837-11	METAL CHIP	22K	5%	1/10W
R327	1-216-837-11	METAL CHIP	22K	5%	1/10W
R328	1-216-837-11	METAL CHIP	22K	5%	1/10W
R345	1-216-833-11	METAL CHIP	10K	5%	1/10W
R346	1-216-833-11	METAL CHIP	10K	5%	1/10W
R361	1-216-833-11	METAL CHIP	10K	5%	1/10W
R365	1-216-833-11	METAL CHIP	10K	5%	1/10W
R366	1-216-833-11	METAL CHIP	10K	5%	1/10W
R367	1-216-833-11	METAL CHIP	10K	5%	1/10W
R381	1-216-835-11	METAL CHIP	15K	5%	1/10W (GT222/GT444/GT555)
R390	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R391	1-216-833-11	METAL CHIP	10K	5%	1/10W
R392	1-216-815-11	METAL CHIP	330	5%	1/10W (GT222)
R392	1-216-819-11	METAL CHIP	680	5%	1/10W (GT444)
R392	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (GT555)
R392	1-216-864-11	SHORT CHIP	0 (GT111)		
R393	1-216-811-11	METAL CHIP	150	5%	1/10W (GT444: UK)
R393	1-216-815-11	METAL CHIP	330	5%	1/10W (GT111: E3)
R393	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GT111: RU, E2, E51, AR/GT222: RU, E2, E51, MX, AR/GT444: RU, E2, E51, MX, AR/GT555)
R394	1-216-835-11	METAL CHIP	15K	5%	1/10W
R395	1-216-835-11	METAL CHIP	15K	5%	1/10W
R397	1-216-835-11	METAL CHIP	15K	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
R422	1-216-821-11	METAL CHIP	1K	5%	1/10W
R423	1-216-821-11	METAL CHIP	1K	5%	1/10W
R424	1-216-821-11	METAL CHIP	1K	5%	1/10W
R425	1-216-821-11	METAL CHIP	1K	5%	1/10W
R426	1-216-821-11	METAL CHIP	1K	5%	1/10W
R427	1-216-821-11	METAL CHIP	1K	5%	1/10W
R428	1-216-821-11	METAL CHIP	1K	5%	1/10W
R431	1-216-809-11	METAL CHIP	100	5%	1/10W
R432	1-216-809-11	METAL CHIP	100	5%	1/10W
R433	1-216-809-11	METAL CHIP	100	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
R438	1-216-809-11	METAL CHIP	100	5%	1/10W
R440	1-216-809-11	METAL CHIP	100	5%	1/10W
R445	1-216-809-11	METAL CHIP	100	5%	1/10W
R446	1-216-809-11	METAL CHIP	100	5%	1/10W
R450	1-216-809-11	METAL CHIP	100	5%	1/10W
R461	1-216-809-11	METAL CHIP	100	5%	1/10W
R463	1-216-809-11	METAL CHIP	100	5%	1/10W
R465	1-216-809-11	METAL CHIP	100	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	1-216-813-11	METAL CHIP	220	5%	1/10W
R474	1-216-809-11	METAL CHIP	100	5%	1/10W
R475	1-216-809-11	METAL CHIP	100	5%	1/10W (GT111: AEP/GT222: AEP/GT444: AEP, UK)
R476	1-216-809-11	METAL CHIP	100	5%	1/10W (GT111: AEP/GT222: AEP/GT444: AEP, UK)
R480	1-216-809-11	METAL CHIP	100	5%	1/10W
R481	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT222/GT444/GT555)
R483	1-216-849-11	METAL CHIP	220K	5%	1/10W
R490	1-216-809-11	METAL CHIP	100	5%	1/10W
R491	1-216-809-11	METAL CHIP	100	5%	1/10W
R492	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GT222/GT444/GT555)
R493	1-216-811-11	METAL CHIP	150	5%	1/10W (GT111: RU/GT222: RU/GT444: RU/GT555: RU)
R493	1-216-819-11	METAL CHIP	680	5%	1/10W (GT222: MX/GT444: MX/GT555: MX)
R493	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT111: E2, E51, AR/GT222: E2, E51, AR/GT444: E2, E51, AR/GT555: E2, E51, AR)
R493	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GT111: E3/GT444: UK)
R493	1-216-864-11	SHORT CHIP	0 (GT111: AEP/GT222: AEP/GT444: AEP)		
R494	1-216-817-11	METAL CHIP	470	5%	1/10W
R495	1-216-817-11	METAL CHIP	470	5%	1/10W
R497	1-216-817-11	METAL CHIP	470	5%	1/10W
R557	1-216-864-11	SHORT CHIP	0		
R575	1-216-864-11	SHORT CHIP	0 (EXCEPT GT111: AEP/GT222: AEP/GT444: AEP, UK)		
R576	1-216-864-11	SHORT CHIP	0 (EXCEPT GT111: AEP/GT222: AEP/GT444: AEP, UK)		
R581	1-100-756-91	CERAMIC CHIP	0.047uF		50V (GT222/GT444/GT555)
R581	1-216-864-11	SHORT CHIP	0 (GT111)		
R610	1-216-845-11	METAL CHIP	100K	5%	1/10W
R612	1-216-801-11	METAL CHIP	22	5%	1/10W
R613	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R614	1-216-817-11	METAL CHIP	470	5%	1/10W
R615	1-216-833-11	METAL CHIP	10K	5%	1/10W
R616	1-216-813-11	METAL CHIP	220	5%	1/10W
R617	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R627	1-216-841-11	METAL CHIP	47K	5%	1/10W
R628	1-216-833-11	METAL CHIP	10K	5%	1/10W
R630	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R631	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R633	1-216-837-11	METAL CHIP	22K	5%	1/10W
R634	1-216-837-11	METAL CHIP	22K	5%	1/10W
R635	1-216-828-11	METAL CHIP	3.9K	5%	1/10W (GT111/GT555)
R635	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GT222)
R635	1-216-830-11	METAL CHIP	5.6K	5%	1/10W (GT444)
R636	1-216-864-11	SHORT CHIP	0		
⚠ R637	1-215-890-51	METAL OXIDE	470	5%	2W F (GT111/GT444)
⚠ R637	1-215-891-51	METAL OXIDE	680	5%	2W F (GT222/GT555)
⚠ R638	1-215-890-51	METAL OXIDE	470	5%	2W F (GT111/GT444)
⚠ R638	1-215-891-51	METAL OXIDE	680	5%	2W F (GT222/GT555)
R639	1-216-805-11	METAL CHIP	47	5%	1/10W (GT444)
R639	1-216-809-11	METAL CHIP	100	5%	1/10W (GT111/GT222/GT555)
R640	1-216-805-11	METAL CHIP	47	5%	1/10W (GT444)
R640	1-216-809-11	METAL CHIP	100	5%	1/10W (GT111/GT222/GT555)
R641	1-216-817-11	METAL CHIP	470	5%	1/10W
R642	1-216-841-11	METAL CHIP	47K	5%	1/10W
R643	1-216-817-11	METAL CHIP	470	5%	1/10W
R644	1-216-841-11	METAL CHIP	47K	5%	1/10W
R645	1-216-817-11	METAL CHIP	470	5%	1/10W
R646	1-216-817-11	METAL CHIP	470	5%	1/10W

Ref. No.	Part No.	Description			Remark
R647	1-216-841-11	METAL CHIP	47K	5%	1/10W
R648	1-216-841-11	METAL CHIP	47K	5%	1/10W
R649	1-216-817-11	METAL CHIP	470	5%	1/10W
R650	1-216-841-11	METAL CHIP	47K	5%	1/10W
R651	1-216-817-11	METAL CHIP	470	5%	1/10W
R652	1-216-841-11	METAL CHIP	47K	5%	1/10W
R653	1-216-817-11	METAL CHIP	470	5%	1/10W
R654	1-216-817-11	METAL CHIP	470	5%	1/10W
R655	1-216-841-11	METAL CHIP	47K	5%	1/10W
R656	1-216-841-11	METAL CHIP	47K	5%	1/10W
R657	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R658	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R662	1-216-839-11	METAL CHIP	33K	5%	1/10W
R663	1-216-837-11	METAL CHIP	22K	5%	1/10W
R664	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R666	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R668	1-216-796-11	METAL CHIP	8.2	5%	1/10W (GT111/GT222)
R668	1-216-797-11	METAL CHIP	10	5%	1/10W (GT444/GT555)
R669	1-216-853-11	METAL CHIP	470K	5%	1/10W
R670	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R671	1-216-833-11	METAL CHIP	10K	5%	1/10W
R672	1-216-833-11	METAL CHIP	10K	5%	1/10W
R673	1-216-833-11	METAL CHIP	10K	5%	1/10W
R675	1-216-833-11	METAL CHIP	10K	5%	1/10W
R676	1-216-833-11	METAL CHIP	10K	5%	1/10W
R681	1-216-833-11	METAL CHIP	10K	5%	1/10W
R683	1-216-821-11	METAL CHIP	1K	5%	1/10W
R687	1-249-401-11	CARBON	47	5%	1/4W
R688	1-249-401-11	CARBON	47	5%	1/4W
R689	1-249-401-11	CARBON	47	5%	1/4W
R690	1-216-821-11	METAL CHIP	1K	5%	1/10W
R691	1-216-845-11	METAL CHIP	100K	5%	1/10W
R692	1-216-797-11	METAL CHIP	10	5%	1/10W
R693	1-216-797-11	METAL CHIP	10	5%	1/10W
R694	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R695	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R696	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R697	1-216-845-11	METAL CHIP	100K	5%	1/10W
R698	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< VIBRATOR >			
X401	1-814-067-11	OSCILLATOR, CRYSTAL (32.768kHz)			
X402	1-795-058-21	VIBRATOR, CERAMIC (5MHz)			
**********					
		MIC BOARD			
		**********			
		< CAPACITOR >			
C700	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C701	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C702	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C703	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C704	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C705	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C707	1-126-961-11	ELECT	2.2uF	20%	50V
C708	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C709	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C710	1-126-157-11	ELECT	10uF	20%	16V

Ref. No.	Part No.	Description			Remark
C711	1-124-584-00	ELECT	100uF	20%	6.3V
C712	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C713	1-126-961-11	ELECT	2.2uF	20%	50V
C714	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C715	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C716	1-124-257-00	ELECT	2.2uF	20%	50V
C717	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C718	1-124-463-00	ELECT	0.1uF	20%	50V
C719	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C720	1-124-257-00	ELECT	2.2uF	20%	50V
C721	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C722	1-164-218-11	CERAMIC CHIP	180PF	5%	50V
		< DIODE >			
D701	6-501-579-01	DIODE MC2837			
D702	6-501-579-01	DIODE MC2837			
		< JUMPER RESISTOR >			
FB700	1-216-295-91	SHORT CHIP	0		
		< IC >			
IC700	8-759-278-58	IC NJM4558V-TE2			
		< JACK >			
J700	1-817-629-11	JACK (LARGE TYPE) (MIC)			
J701	1-764-767-21	JACK, PIN 2P (AUDIO INPUT)			
J702	1-794-702-11	JACK, HEADPHONE (PHONES)			
		< RESISTOR >			
R700	1-216-821-11	METAL CHIP	1K	5%	1/10W
R701	1-216-845-11	METAL CHIP	100K	5%	1/10W
R702	1-216-833-11	METAL CHIP	10K	5%	1/10W
R704	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R705	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R706	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R707	1-216-849-11	METAL CHIP	220K	5%	1/10W
R708	1-216-849-11	METAL CHIP	220K	5%	1/10W
R709	1-216-821-11	METAL CHIP	1K	5%	1/10W
R710	1-216-821-11	METAL CHIP	1K	5%	1/10W
R711	1-216-833-11	METAL CHIP	10K	5%	1/10W
R712	1-216-836-11	METAL CHIP	18K	5%	1/10W
R713	1-216-809-11	METAL CHIP	100	5%	1/10W
R714	1-216-849-11	METAL CHIP	220K	5%	1/10W
R715	1-216-809-11	METAL CHIP	100	5%	1/10W
R716	1-216-845-11	METAL CHIP	100K	5%	1/10W
R718	1-216-836-11	METAL CHIP	18K	5%	1/10W
R719	1-216-833-11	METAL CHIP	10K	5%	1/10W
R720	1-216-845-11	METAL CHIP	100K	5%	1/10W
R721	1-216-841-11	METAL CHIP	47K	5%	1/10W
R722	1-216-833-11	METAL CHIP	10K	5%	1/10W
R723	1-216-836-11	METAL CHIP	18K	5%	1/10W
		< VARIABLE RESISTOR >			
RV700	1-223-983-11	RES, VAR, CARBON 50K (MIC LEVEL)			
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MOTOR DRIVE | POWERAMP

Ref. No.	Part No.	Description			Remark
		MOTOR DRIVE BOARD (GT222/GT444/GT555)			
		**********			
		< CAPACITOR >			
C001	1-126-947-11	ELECT	47uF	20%	35V
C002	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
CN001	1-568-854-11	CONNECTOR, FFC 11P			
CN002	(Not supplied)	CONNECTOR, FFC/FPC (LIF) 4P			
CN003	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN004	1-564-704-41	PIN, CONNECTOR (SMALL TYPE) 2P			
		< IC >			
IC001	6-711-976-01	IC LB1846M			
		< RESISTOR >			
R005	1-216-833-11	METAL CHIP	10K	5%	1/10W
R006	1-216-833-11	METAL CHIP	10K	5%	1/10W
R007	1-216-833-11	METAL CHIP	10K	5%	1/10W
R008	1-216-833-11	METAL CHIP	10K	5%	1/10W
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	A-1444-547-A	POWERAMP BOARD, COMPLETE (GT111: AEP, RU, E3)			
	A-1444-585-A	POWERAMP BOARD, COMPLETE (GT222: AEP, RU)			
	A-1444-603-A	POWERAMP BOARD, COMPLETE (GT444: AEP, RU, UK)			
	A-1444-648-A	POWERAMP BOARD, COMPLETE (GT555: E2, E51, AR)			
	A-1545-500-A	POWERAMP BOARD, COMPLETE (GT222: MX)			
	A-1545-503-A	POWERAMP BOARD, COMPLETE (GT444: MX)			
	A-1545-506-A	POWERAMP BOARD, COMPLETE (GT555: MX)			
	A-1545-869-A	POWERAMP BOARD, COMPLETE (GT111: E2, E51, AR)			
	A-1545-872-A	POWERAMP BOARD, COMPLETE (GT222: E2, E51, AR)			
	A-1545-875-A	POWERAMP BOARD, COMPLETE (GT444: E2, E51, AR)			
	A-1545-878-A	POWERAMP BOARD, COMPLETE (GT555: RU)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
C801	1-137-749-11	MYLAR	0.1uF		100V
C802	1-137-749-11	MYLAR	0.1uF		100V
C803	1-135-928-21	ELECT	2200uF	20%	63V (GT111: AEP, RU, E3)
C803	1-137-840-11	ELECT (BLOCK)	2200uF	20%	63V (GT111: E2, E51, AR)
C803	1-137-841-11	ELECT (BLOCK)	2200uF	20%	71V (GT444)
C803	1-137-842-11	ELECT (BLOCK)	2200uF	20%	80V (GT222/GT555)
C804	1-135-928-21	ELECT	2200uF	20%	63V (GT111: AEP, RU, E3)
C804	1-137-840-11	ELECT (BLOCK)	2200uF	20%	63V (GT111: E2, E51, AR)
C804	1-137-841-11	ELECT (BLOCK)	2200uF	20%	71V (GT444)
C804	1-137-842-11	ELECT (BLOCK)	2200uF	20%	80V (GT222/GT555)
C805	1-127-811-11	ELECT (BLOCK)	3300uF	20%	50V (GT222: E2, E51, MX, AR/GT555: E2, E51, MX, AR)
C805	1-135-515-21	ELECT	3300uF	20%	50V (GT222: AEP, RU/GT555: RU)
C806	1-127-811-11	ELECT (BLOCK)	3300uF	20%	50V (GT222: E2, E51, MX, AR/GT555: E2, E51, MX, AR)
C806	1-135-515-21	ELECT	3300uF	20%	50V (GT222: AEP, RU/GT555: RU)
C807	1-130-495-00	MYLAR	0.1uF	5%	50V (GT222/GT555)
C808	1-130-495-00	MYLAR	0.1uF	5%	50V (GT222/GT555)
C809	1-126-964-11	ELECT	10uF	20%	50V
C810	1-126-964-11	ELECT	10uF	20%	50V
C811	1-126-964-11	ELECT	10uF	20%	50V (GT444/GT555)
C812	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C813	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GT444/GT555)
C814	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C815	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C816	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (GT444/GT555)
C817	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C818	1-126-967-11	ELECT	47uF	20%	50V
C819	1-126-967-11	ELECT	47uF	20%	50V
C820	1-126-967-11	ELECT	47uF	20%	50V (GT444/GT555)
C826	1-128-552-51	ELECT	47uF	20%	63V (GT111)
C826	1-128-562-11	ELECT	47uF	20%	100V (GT222/GT444/GT555)
C827	1-128-552-51	ELECT	47uF	20%	63V (GT111)
C827	1-128-562-11	ELECT	47uF	20%	100V (GT222/GT444/GT555)
C828	1-126-965-11	ELECT	22uF	20%	50V
C829	1-104-658-91	ELECT	100uF	20%	10V
C830	1-126-961-11	ELECT	2.2uF	20%	50V
C833	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C835	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C837	1-130-495-00	MYLAR	0.1uF	5%	50V
C838	1-130-495-00	MYLAR	0.1uF	5%	50V
C839	1-130-495-00	MYLAR	0.1uF	5%	50V
C840	1-130-495-00	MYLAR	0.1uF	5%	50V
C843	1-126-964-11	ELECT	10uF	20%	50V
C844	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
* CN801	1-569-506-11	PIN, CONNECTOR 11P (GT111/GT222)			
* CN801	1-573-087-11	PIN, CONNECTOR 13P (GT444/GT555)			
		< DIODE >			
D800	6-500-360-01	DIODE D10XB20			
D801	6-500-360-01	DIODE D10XB20 (GT222/GT555)			
D802	6-500-334-01	DIODE MC2836-T112-1			
D803	6-501-817-01	DIODE MA2J1110GLS0			
D804	6-501-778-01	DIODE MAZ8160GMLS0 (GT222/GT555)			
D805	6-501-778-01	DIODE MAZ8160GMLS0 (GT222/GT555)			
D806	6-500-968-21	DIODE 30PRA20FC (GT222/GT555)			

POWERAMP

Ref. No.	Part No.	Description	Remark
D807	6-501-817-01	DIODE MA2J1110GLS0	
D808	6-501-817-01	DIODE MA2J1110GLS0	
D810	6-500-968-21	DIODE 30PRA20FC (GT222/GT555)	
D811	6-501-817-01	DIODE MA2J1110GLS0 (GT444/GT555)	
D812	6-500-335-01	DIODE MC2838-T112-1	
		< EARTH TERMINAL >	
EP800	1-537-771-21	TERMINAL BOARD, GROUND	
		< IC >	
IC800	6-600-562-01	IC STK433-100-E (GT111)	
IC800	6-600-674-01	IC STK416-130-E (GT555)	
IC800	6-712-280-01	IC STK415-120-E (GT222)	
IC800	6-712-281-01	IC STK433-320-E (GT444)	
		< TERMINAL BOARD >	
JK800	1-820-067-11	TERMINAL BOARD (SPEAKER) (FRONT SPEAKER)	
		< JUMPER RESISTOR >	
JR891	1-216-864-11	SHORT CHIP 0	
		< COIL >	
L801	1-422-009-13	COIL, AIR-CORE	
L802	1-422-009-13	COIL, AIR-CORE	
		< TRANSISTOR >	
Q800	6-551-268-01	TRANSISTOR 2SC5625	
Q801	6-551-268-01	TRANSISTOR 2SC5625	
Q802	6-551-268-01	TRANSISTOR 2SC5625 (GT444/GT555)	
Q803	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q804	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q805	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF (GT444/GT555)	
Q806	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q809	6-551-696-01	TRANSISTOR ISA1235AC1TP-1EF	
Q810	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q811	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q812	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q813	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q814	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
Q815	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF	
		< RESISTOR >	
R804	1-216-809-11	METAL CHIP 100 5% 1/10W	
R805	1-216-809-11	METAL CHIP 100 5% 1/10W (GT444/GT555)	
R806	1-216-845-11	METAL CHIP 100K 5% 1/10W (GT222/GT555)	
R807	1-216-845-11	METAL CHIP 100K 5% 1/10W (GT222/GT555)	
R808	1-216-797-11	METAL CHIP 10 5% 1/10W	
R809	1-216-797-11	METAL CHIP 10 5% 1/10W	
R810	1-216-797-11	METAL CHIP 10 5% 1/10W	
R811	1-216-797-11	METAL CHIP 10 5% 1/10W	
R812	1-216-797-11	METAL CHIP 10 5% 1/10W	
R813	1-216-797-11	METAL CHIP 10 5% 1/10W	
R814	1-216-809-11	METAL CHIP 100 5% 1/10W	
R815	1-216-809-11	METAL CHIP 100 5% 1/10W	

Ref. No.	Part No.	Description			Remark
					(GT444/GT555)
R816	1-216-809-11	METAL CHIP	100	5%	1/10W
					(GT444/GT555)
R817	1-216-809-11	METAL CHIP	100	5%	1/10W
R818	1-216-809-11	METAL CHIP	100	5%	1/10W
R819	1-216-809-11	METAL CHIP	100	5%	1/10W
					(GT444/GT555)
R820	1-216-835-11	METAL CHIP	15K	5%	1/10W
R821	1-216-820-11	METAL CHIP	820	5%	1/10W
					(GT444)
R821	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(GT111/GT222/GT555)
R822	1-216-818-11	METAL CHIP	560	5%	1/10W
					(GT555)
R822	1-216-819-11	METAL CHIP	680	5%	1/10W
					(GT444)
R823	1-216-820-11	METAL CHIP	820	5%	1/10W
					(GT444)
R823	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(GT111/GT222/GT555)
R824	1-216-841-11	METAL CHIP	47K	5%	1/10W
R825	1-216-841-11	METAL CHIP	47K	5%	1/10W
R826	1-216-841-11	METAL CHIP	47K	5%	1/10W
					(GT444)
R826	1-216-842-11	METAL CHIP	56K	5%	1/10W
					(GT555)
R827	1-216-820-11	METAL CHIP	820	5%	1/10W
					(GT111/GT444)
R827	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(GT555)
R827	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
					(GT222)
R828	1-216-820-11	METAL CHIP	820	5%	1/10W
					(GT111/GT444)
R828	1-216-821-11	METAL CHIP	1K	5%	1/10W
					(GT555)
R828	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
					(GT222)
R829	1-216-818-11	METAL CHIP	560	5%	1/10W
					(GT555)
R829	1-216-819-11	METAL CHIP	680	5%	1/10W
					(GT444)
R830	1-216-841-11	METAL CHIP	47K	5%	1/10W
⚠ R831	1-220-893-11	METAL	0.22	10%	5W F
⚠ R832	1-220-893-11	METAL	0.22	10%	5W F
⚠ R833	1-220-893-11	METAL	0.22	10%	5W F
					(GT444/GT555)
R834	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R835	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
					(GT444/GT555)
R836	1-216-837-11	METAL CHIP	22K	5%	1/10W
R837	1-216-837-11	METAL CHIP	22K	5%	1/10W
R838	1-216-845-11	METAL CHIP	100K	5%	1/10W
R839	1-216-845-11	METAL CHIP	100K	5%	1/10W
					(GT444/GT555)
R840	1-216-797-11	METAL CHIP	10	5%	1/10W
R841	1-216-797-11	METAL CHIP	10	5%	1/10W
⚠ R842	1-215-871-51	METAL OXIDE	2.2K	5%	1W F
					(GT222/GT555)
⚠ R843	1-215-871-51	METAL OXIDE	2.2K	5%	1W F
					(GT222/GT555)
R844	1-216-839-11	METAL CHIP	33K	5%	1/10W
R845	1-216-839-11	METAL CHIP	33K	5%	1/10W
R846	1-216-821-11	METAL CHIP	1K	5%	1/10W

POWERAMP **SW** **SW JACK** **TC**

Ref. No.	Part No.	Description			Remark
R848	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R850	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R851	1-216-833-11	METAL CHIP	10K	5%	1/10W
R856	1-216-841-11	METAL CHIP	47K	5%	1/10W
R857	1-216-837-11	METAL CHIP	22K	5%	1/10W
R858	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R859	1-216-839-11	METAL CHIP	33K	5%	1/10W
R860	1-216-839-11	METAL CHIP	33K	5%	1/10W
⚠ R861	1-202-972-61	FUSIBLE	1	5%	1/4W F
⚠ R862	1-212-881-61	FUSIBLE	100	5%	1/4W F
R863	1-216-821-11	METAL CHIP	1K	5%	1/10W
R864	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠ R865	1-212-881-61	FUSIBLE	100	5%	1/4W F
R866	1-202-926-11	METAL CHIP	36K	5%	1/10W (GT444/GT555)
R866	1-216-840-11	METAL CHIP	39K	5%	1/10W (GT111/GT222)
R867	1-216-821-11	METAL CHIP	1K	5%	1/10W
R868	1-216-839-11	METAL CHIP	33K	5%	1/10W (GT444/GT555)
R869	1-216-797-11	METAL CHIP	10	5%	1/10W
R871	1-216-797-11	METAL CHIP	10	5%	1/10W
R872	1-216-797-11	METAL CHIP	10	5%	1/10W
R874	1-216-797-11	METAL CHIP	10	5%	1/10W
R875	1-216-797-11	METAL CHIP	10	5%	1/10W
R877	1-216-797-11	METAL CHIP	10	5%	1/10W
R878	1-216-797-11	METAL CHIP	10	5%	1/10W
R879	1-216-797-11	METAL CHIP	10	5%	1/10W
R881	1-216-838-11	METAL CHIP	27K	5%	1/10W (GT444/GT555)
R881	1-216-841-11	METAL CHIP	47K	5%	1/10W (GT111/GT222)
R882	1-216-845-11	METAL CHIP	100K	5%	1/10W
R883	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R884	1-216-841-11	METAL CHIP	47K	5%	1/10W
R885	1-216-841-11	METAL CHIP	47K	5%	1/10W (GT444)
R885	1-216-842-11	METAL CHIP	56K	5%	1/10W (GT555)
R886	1-216-821-11	METAL CHIP	1K	5%	1/10W (GT444/GT555)
R888	1-216-821-11	METAL CHIP	1K	5%	1/10W
R889	1-216-839-11	METAL CHIP	33K	5%	1/10W (GT444/GT555)
R890	1-216-837-11	METAL CHIP	22K	5%	1/10W (GT444/GT555)
R891	1-216-845-11	METAL CHIP	100K	5%	1/10W
R892	1-216-845-11	METAL CHIP	100K	5%	1/10W
R895	1-216-821-11	METAL CHIP	1K	5%	1/10W
R896	1-216-837-11	METAL CHIP	22K	5%	1/10W
R897	1-216-837-11	METAL CHIP	22K	5%	1/10W
R898	1-216-835-11	METAL CHIP	15K	5%	1/10W
R899	1-216-835-11	METAL CHIP	15K	5%	1/10W
		< RELAY >			
RY800	1-755-170-11	RELAY (12V) (GT111)			
RY800	1-755-500-11	RELAY (GT222/GT444/GT555)			

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Ref. No.	Part No.	Description			Remark
		SW BOARD (GT222/GT444/GT555)			
		**********			
		< RESISTOR >			
R031	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< SWITCH >			
S031	1-786-084-11	SWITCH, DETECTION			(METER POSITION DETECT)

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		SW JACK BOARD (GT444/GT555)			
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		< CAPACITOR >			
C836	1-130-495-00	MYLAR	0.1uF	5%	50V
C841	1-130-495-00	MYLAR	0.1uF	5%	50V
		< CONNECTOR >			
* CN890	1-564-521-11	PLUG, CONNECTOR 6P			
		< DIODE >			
D890	6-501-817-01	DIODE MA2J1110GLS0			
		< TERMINAL BOARD >			
JK890	1-780-473-21	TERMINAL BOARD (SPEAKER) 1P			(SUBWOOFER)
		< COIL >			
L890	1-422-009-13	COIL, AIR-CORE			
		< RESISTOR >			
R870	1-216-797-11	METAL CHIP	10	5%	1/10W
R873	1-216-797-11	METAL CHIP	10	5%	1/10W
R876	1-216-797-11	METAL CHIP	10	5%	1/10W
R880	1-216-797-11	METAL CHIP	10	5%	1/10W
R891	1-216-797-11	METAL CHIP	10	5%	1/10W
R892	1-216-797-11	METAL CHIP	10	5%	1/10W
R893	1-216-797-11	METAL CHIP	10	5%	1/10W
R894	1-216-797-11	METAL CHIP	10	5%	1/10W
		< RELAY >			
RY890	1-755-500-11	RELAY			

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	A-1444-545-A	TC BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C501	1-104-658-91	ELECT	100uF	20%	10V
C502	1-104-658-91	ELECT	100uF	20%	10V
C503	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C504	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C505	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C506	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C509	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C510	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C511	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C512	1-162-960-11	CERAMIC CHIP	220PF	10%	50V

Ref. No.	Part No.	Description			Remark
C513	1-126-960-11	ELECT	1uF	20%	50V
C514	1-126-960-11	ELECT	1uF	20%	50V
C515	1-126-947-11	ELECT	47uF	20%	35V
C516	1-126-947-11	ELECT	47uF	20%	35V
C517	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C519	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C520	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C521	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C522	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C523	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C524	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C525	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C526	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C527	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C528	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C529	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C530	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C531	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C532	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C533	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C534	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C535	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C536	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C537	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C538	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C539	1-115-156-11	CERAMIC CHIP	1uF		10V
C540	1-137-391-11	MYLAR	0.0047uF	5%	100V
C542	1-104-662-91	ELECT	22uF	20%	25V
C543	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C545	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C546	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C548	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN501	1-815-449-11	PIN, CONNECTOR (PWB) 8P			
		< GROUND TERMINAL >			
ET501	1-537-771-21	TERMINAL BOARD, GROUND			
		< FLEXIBLE FLAT CABLE >			
FFC502	1-832-432-21	CABLE, FLEXIBLE FLAT (9 CORE)			
		< IC >			
IC501	8-759-100-96	IC uPC4558G2			
IC502	8-759-100-96	IC uPC4558G2			
		< JUMPER RESISTOR >			
JR501	1-216-864-11	SHORT CHIP	0		
JR502	1-216-864-11	SHORT CHIP	0		
JR503	1-216-864-11	SHORT CHIP	0		
JR504	1-216-295-91	SHORT CHIP	0		
		< TRANSFORMER >			
L501	1-456-094-11	TRANSFORMER, BIAS OSCILLATION			
		< TRANSISTOR >			
Q501	8-729-119-78	TRANSISTOR	2SC2785-HFE		
Q502	8-729-119-78	TRANSISTOR	2SC2785-HFE		

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R501	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R502	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R503	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R504	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R505	1-216-834-11	METAL CHIP	12K	5%	1/10W
R506	1-216-834-11	METAL CHIP	12K	5%	1/10W
R507	1-216-850-11	METAL CHIP	270K	5%	1/10W
R508	1-216-850-11	METAL CHIP	270K	5%	1/10W
R509	1-216-814-11	METAL CHIP	270	5%	1/10W
R510	1-216-814-11	METAL CHIP	270	5%	1/10W
R511	1-216-845-11	METAL CHIP	100K	5%	1/10W
R512	1-216-845-11	METAL CHIP	100K	5%	1/10W
R513	1-216-845-11	METAL CHIP	100K	5%	1/10W
R514	1-216-845-11	METAL CHIP	100K	5%	1/10W
R515	1-216-864-11	SHORT CHIP	0		
R516	1-216-864-11	SHORT CHIP	0		
R517	1-216-821-11	METAL CHIP	1K	5%	1/10W
R518	1-216-821-11	METAL CHIP	1K	5%	1/10W
R519	1-216-841-11	METAL CHIP	47K	5%	1/10W
R520	1-216-841-11	METAL CHIP	47K	5%	1/10W
R521	1-216-841-11	METAL CHIP	47K	5%	1/10W
R522	1-216-841-11	METAL CHIP	47K	5%	1/10W
R523	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R524	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R525	1-216-851-11	METAL CHIP	330K	5%	1/10W
R526	1-216-851-11	METAL CHIP	330K	5%	1/10W
R527	1-216-851-11	METAL CHIP	330K	5%	1/10W
R528	1-216-851-11	METAL CHIP	330K	5%	1/10W
R529	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R530	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R531	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R532	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R533	1-216-837-11	METAL CHIP	22K	5%	1/10W
R534	1-216-835-11	METAL CHIP	15K	5%	1/10W
R535	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R537	1-216-833-11	METAL CHIP	10K	5%	1/10W
R538	1-216-833-11	METAL CHIP	10K	5%	1/10W
R539	1-216-793-11	METAL CHIP	4.7	5%	1/10W
R540	1-216-805-11	METAL CHIP	47	5%	1/10W
R541	1-216-805-11	METAL CHIP	47	5%	1/10W
R543	1-216-813-11	METAL CHIP	220	5%	1/10W
R544	1-216-813-11	METAL CHIP	220	5%	1/10W
R545	1-216-817-11	METAL CHIP	470	5%	1/10W
R546	1-216-817-11	METAL CHIP	470	5%	1/10W
		< SWITCH >			
S501	1-762-369-11	SWITCH, SLIDE (REC/PB)			

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TRANS1 BOARD (GT111: E2, E3, E51)

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< CAPACITOR >

C907	1-136-497-81	FILM	0.1uF	5%	50V
C908	1-128-553-11	ELECT	220uF	20%	63V
C909	1-126-964-11	ELECT	10uF	20%	50V
C910	1-126-948-11	ELECT	100uF	20%	35V
C911	1-126-942-61	ELECT	1000uF	20%	25V

TRANS1 **TRANS2**

Ref. No.	Part No.	Description			Remark
C925	1-100-717-91	CERAMIC CHIP	1uF		16V
C926	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
CN901	1-691-961-11	PIN, CONNECTOR (PC BOARD) 3P			
CN903	1-819-134-11	PIN, CONNECTOR 6P			
CN907	1-819-139-11	PIN, CONNECTOR 11P			
		< DIODE >			
D901	6-501-817-01	DIODE MA2J1110GLS0			
D906	6-501-796-01	DIODE MAZ8330GMLS0			
D908	8-719-063-79	DIODE 1N4002B			
D911	6-501-579-01	DIODE MC2837			
D912	6-501-579-01	DIODE MC2837			
		< FUSE HOLDER >			
FH909	1-533-217-31	FUSE HOLDER			
FH910	1-533-217-31	FUSE HOLDER			
FH913	1-533-217-31	FUSE HOLDER			
FH914	1-533-217-31	FUSE HOLDER			
FH915	1-533-217-31	FUSE HOLDER			
FH916	1-533-217-31	FUSE HOLDER			
FH917	1-533-217-31	FUSE HOLDER			
FH918	1-533-217-31	FUSE HOLDER			
		< TRANSFORMER >			
⚠ PT902	1-443-928-11	TRANSFORMER, POWER			
		< TRANSISTOR >			
Q902	8-729-048-66	TRANSISTOR	2SB1238-PQR-TV2		
Q903	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
		< RESISTOR >			
R904	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠ R908	1-202-972-61	FUSIBLE	1	5%	1/4W F
R910	1-216-801-11	METAL CHIP	22	5%	1/10W
R911	1-216-864-11	SHORT CHIP	0		
R912	1-216-837-11	METAL CHIP	22K	5%	1/10W
R914	1-216-845-11	METAL CHIP	100K	5%	1/10W
R915	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R952	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< RELAY >			
⚠ RY901	1-755-276-11	RELAY, POWER			
		< SWITCH >			
⚠ S901	1-786-055-31	SELECTOR, VOLTAGE (VOLTAGE SELECTOR)			
**********					
		TRANS2 BOARD (GT222/GT444/GT555)			
		**********			
		< CAPACITOR >			
C907	1-136-497-81	FILM	0.1uF	5%	50V
C908	1-128-553-11	ELECT	220uF	20%	63V
C909	1-126-964-11	ELECT	10uF	20%	50V
C910	1-126-948-11	ELECT	100uF	20%	35V
C911	1-115-466-91	ELECT	1000uF	20%	16V
		(GT222: AEP, RU, MX, AR/GT444: AEP, RU, UK, MX, AR/GT555: RU, MX, AR)			

Ref. No.	Part No.	Description			Remark
C911	1-126-942-61	ELECT	1000uF	20%	25V
		(GT222: E2, E51/GT444: E2, E51/GT555: E2, E51)			
C925	1-100-717-91	CERAMIC CHIP	1uF		16V
C926	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
CN901	1-691-961-11	PIN, CONNECTOR (PC BOARD) 3P			
CN903	1-819-134-11	PIN, CONNECTOR 6P			
CN907	1-819-139-11	PIN, CONNECTOR 11P			
		< DIODE >			
D901	6-501-817-01	DIODE MA2J1110GLS0			
D906	6-501-796-01	DIODE MAZ8330GMLS0			
D908	8-719-063-79	DIODE 1N4002B			
D911	6-501-579-01	DIODE MC2837			
D912	6-501-579-01	DIODE MC2837			
		< FUSE HOLDER >			
FH907	1-533-217-31	FUSE HOLDER (GT222/GT555)			
FH908	1-533-217-31	FUSE HOLDER (GT222/GT555)			
FH909	1-533-217-31	FUSE HOLDER			
FH910	1-533-217-31	FUSE HOLDER			
FH911	1-533-217-31	FUSE HOLDER (GT222/GT555)			
FH912	1-533-217-31	FUSE HOLDER (GT222/GT555)			
FH913	1-533-217-31	FUSE HOLDER			
FH914	1-533-217-31	FUSE HOLDER			
FH915	1-533-217-31	FUSE HOLDER			
FH916	1-533-217-31	FUSE HOLDER			
FH917	1-533-217-31	FUSE HOLDER			
FH918	1-533-217-31	FUSE HOLDER			
		< TRANSFORMER >			
⚠ PT902	1-443-927-11	TRANSFORMER, POWER (GT222: MX/GT444: MX/GT555: MX)			
⚠ PT902	1-443-928-11	TRANSFORMER, POWER (GT222: E2, E51, AR/GT444: E2, E51, AR/GT555: E2, E51, AR)			
⚠ PT902	1-443-929-11	TRANSFORMER, POWER (GT222: AEP, RU/GT444: AEP, RU, UK/GT555: RU)			
		< TRANSISTOR >			
Q902	8-729-048-66	TRANSISTOR	2SB1238-PQR-TV2		
Q903	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
		< RESISTOR >			
R904	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠ R908	1-202-972-61	FUSIBLE	1	5%	1/4W F
		(GT222: E2, E51, MX, AR/GT444: E2, E51, MX, AR/GT555: E2, E51, MX, AR)			
⚠ R908	1-219-124-11	FUSIBLE	0.68	5%	1/4W F
		(GT222: AEP, RU/GT444: AEP, RU, UK/GT555: RU)			
R910	1-216-801-11	METAL CHIP	22	5%	1/10W
R911	1-216-864-11	SHORT CHIP	0		
R912	1-216-837-11	METAL CHIP	22K	5%	1/10W
R914	1-216-845-11	METAL CHIP	100K	5%	1/10W
R915	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R952	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< RELAY >			
⚠ RY901	1-755-276-11	RELAY, POWER			

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
⚠ S901	1-786-055-31	SELECTOR, VOLTAGE (VOLTAGE SELECTOR) (GT222: E2, E51/GT444: E2, E51/GT555: E2, E51)			
**********					
		TRANSX BOARD (GT111: AEP, RU, AR)			
		**********			
		< CAPACITOR >			
C907	1-136-497-81	FILM	0.1uF	5%	50V
C908	1-128-553-11	ELECT	220uF	20%	63V
C909	1-126-964-11	ELECT	10uF	20%	50V
C910	1-126-948-11	ELECT	100uF	20%	35V
C911	1-115-466-91	ELECT	1000uF	20%	16V
C925	1-100-717-91	CERAMIC CHIP	1uF		16V
C926	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
* CN901	1-793-660-11	PIN, CONNECTOR (PC BOARD) 3P			
CN903	1-819-134-11	PIN, CONNECTOR 6P			
CN907	1-819-139-11	PIN, CONNECTOR 11P			
		< DIODE >			
D901	6-501-817-01	DIODE MA2J1110GLS0			
D906	6-501-796-01	DIODE MAZ8330GMLS0			
D908	8-719-063-79	DIODE 1N4002B			
D911	6-501-579-01	DIODE MC2837			
D912	6-501-579-01	DIODE MC2837			
		< FUSE HOLDER >			
FH909	1-533-217-31	FUSE HOLDER			
FH910	1-533-217-31	FUSE HOLDER			
FH913	1-533-217-31	FUSE HOLDER			
FH914	1-533-217-31	FUSE HOLDER			
FH915	1-533-217-31	FUSE HOLDER			
FH916	1-533-217-31	FUSE HOLDER			
FH917	1-533-217-31	FUSE HOLDER			
FH918	1-533-217-31	FUSE HOLDER			
		< TRANSFORMER >			
⚠ PT902	1-443-928-11	TRANSFORMER, POWER (GT111: AR)			
⚠ PT902	1-443-929-11	TRANSFORMER, POWER (GT111: AEP, RU)			
		< TRANSISTOR >			
Q902	8-729-048-66	TRANSISTOR	2SB1238-PQR-TV2		
Q903	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
		< RESISTOR >			
R904	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠ R908	1-202-972-61	FUSIBLE	1	5%	1/4W F
R910	1-216-801-11	METAL CHIP	22	5%	1/10W
R911	1-216-864-11	SHORT CHIP	0		
R912	1-216-837-11	METAL CHIP	22K	5%	1/10W
R914	1-216-845-11	METAL CHIP	100K	5%	1/10W
R915	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R952	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< RELAY >			
⚠ RY901	1-755-276-11	RELAY, POWER			

Ref. No.	Part No.	Description			Remark
**********					
		USB BOARD			
		**********			
		< 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
C913	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C914	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C915	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C916	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C917	1-100-354-21	ELECT CHIP	220uF	20%	6.3V
C918	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C919	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C920	1-165-112-11	CERAMIC CHIP	0.33uF		16V
C921	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C922	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C930	1-165-112-11	CERAMIC CHIP	0.33uF		16V
		< CONNECTOR >			
CN901	1-770-160-21	PIN, CONNECTOR (PC BOARD) 2P			
CN903	1-779-993-11	PIN, CONNECTOR (PWB) 5P			
CN907	1-784-833-51	CONNECTOR, FFC (LIF (NON-ZIF)) 21P			
		< DIODE >			
D901	6-501-579-01	DIODE MC2837			
D902	6-501-579-01	DIODE MC2837			
D903	6-501-743-01	DIODE MAZ8068GMLS0			
D904	6-501-743-01	DIODE MAZ8068GMLS0			
		< EARTH TERMINAL >			
EP901	1-537-771-21	TERMINAL BOARD, GROUND			
		< FERRITE BEAD >			
FB901	1-414-233-22	INDUCTOR, FERRITE BEAD			
FB902	1-414-233-22	INDUCTOR, FERRITE BEAD			
		< IC >			
IC901	6-808-190-01	IC TMP92CD28AFG-7AC9			
IC915	6-710-887-01	IC R5523N001B-TR-F			
IC921	6-704-832-01	IC IS61LV6416-10TLT			
		< JUMPER RESISTOR >			
JR902	1-216-295-91	SHORT CHIP	0		
		< RESISTOR >			
R901	1-216-833-11	METAL CHIP	10K	5%	1/10W
R902	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R903	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R904	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

USB | **USB CONNECTOR** | **VOLUME**

Ref. No.	Part No.	Description			Remark
R905	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R906	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R907	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R913	1-216-845-11	METAL CHIP	100K	5%	1/10W
R915	1-216-833-11	METAL CHIP	10K	5%	1/10W
R916	1-216-864-11	SHORT CHIP	0		
R917	1-216-864-11	SHORT CHIP	0		
R919	1-216-809-11	METAL CHIP	100	5%	1/10W
R920	1-216-833-11	METAL CHIP	10K	5%	1/10W
R921	1-216-845-11	METAL CHIP	100K	5%	1/10W
R922	1-216-845-11	METAL CHIP	100K	5%	1/10W
R923	1-216-802-11	METAL CHIP	27	5%	1/10W
R924	1-216-802-11	METAL CHIP	27	5%	1/10W
R925	1-216-835-11	METAL CHIP	15K	5%	1/10W
R926	1-216-835-11	METAL CHIP	15K	5%	1/10W
R928	1-216-864-11	SHORT CHIP	0		
R932	1-216-809-11	METAL CHIP	100	5%	1/10W
R933	1-216-864-11	SHORT CHIP	0		
R934	1-216-833-11	METAL CHIP	10K	5%	1/10W
R937	1-216-809-11	METAL CHIP	100	5%	1/10W
R938	1-216-809-11	METAL CHIP	100	5%	1/10W
R941	1-216-845-11	METAL CHIP	100K	5%	1/10W
R942	1-216-845-11	METAL CHIP	100K	5%	1/10W
R943	1-216-845-11	METAL CHIP	100K	5%	1/10W
R944	1-216-845-11	METAL CHIP	100K	5%	1/10W
R945	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R947	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R949	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R970	1-216-809-11	METAL CHIP	100	5%	1/10W
R971	1-216-809-11	METAL CHIP	100	5%	1/10W
R972	1-216-809-11	METAL CHIP	100	5%	1/10W
R973	1-216-809-11	METAL CHIP	100	5%	1/10W
R974	1-216-809-11	METAL CHIP	100	5%	1/10W
R975	1-216-809-11	METAL CHIP	100	5%	1/10W
R976	1-216-809-11	METAL CHIP	100	5%	1/10W
R977	1-216-809-11	METAL CHIP	100	5%	1/10W
R978	1-216-809-11	METAL CHIP	100	5%	1/10W
R979	1-216-809-11	METAL CHIP	100	5%	1/10W
R981	1-216-809-11	METAL CHIP	100	5%	1/10W
R982	1-216-809-11	METAL CHIP	100	5%	1/10W
R983	1-216-809-11	METAL CHIP	100	5%	1/10W
R984	1-216-809-11	METAL CHIP	100	5%	1/10W
R985	1-216-809-11	METAL CHIP	100	5%	1/10W
R986	1-216-809-11	METAL CHIP	100	5%	1/10W
		< COMPOSITION CIRCUIT BLOCK >			
RB921	1-234-944-21	RES, NETWORK	47 (1005X4)		
RB922	1-234-944-21	RES, NETWORK	47 (1005X4)		
RB923	1-234-944-21	RES, NETWORK	47 (1005X4)		
RB924	1-234-944-21	RES, NETWORK	47 (1005X4)		
		< VIBRATOR >			
X901	1-813-931-21	VIBRATOR, CRYSTAL (9MHz)			

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Ref. No.	Part No.	Description			Remark
	A-1444-543-A	USB CONNECTOR BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1001	1-126-176-11	ELECT	220uF	20%	10V
C1002	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C1003	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN1000	1-819-866-11	CONNECTOR, USB (A) (USB)			
		< DIODE >			
D1000	6-502-517-01	LED 1L434FB12E0MDTZ1 (USB)			
D1001	6-501-579-01	DIODE MC2837			
D1002	6-501-579-01	DIODE MC2837			
D1003	6-501-691-01	LED 1L434FV22D0TDF01 (USB)			
D1004	6-501-743-01	DIODE MAZ8068GMLS0			
		< JUMPER RESISTOR >			
FB1000	1-216-295-91	SHORT CHIP	0		
FB1001	1-216-295-91	SHORT CHIP	0		
		< RESISTOR >			
R1001	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1002	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1004	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1005	1-216-821-11	METAL CHIP	1K	5%	1/10W

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		VOLUME BOARD			
		**********			
		< RESISTOR >			
R1051	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1052	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1053	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1054	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< ROTARY ENCODER >			
S1051	1-478-133-11	ENCODER, ROTARY (OPERATION DIAL)			
S1052	1-418-725-51	ENCODER, ROTARY (12 TYPE)			(MASTER VOLUME)

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Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
52	1-543-793-11	FILTER, CLAMP (FERRITE CORE)	
105	1-832-897-21	CABLE, FLEXIBLE FLAT (25 CORE) (GT111)	
105	1-835-362-21	WIRE (FLAT TYPE) (31 CORE)	(GT222/GT444/GT555)
201	A-1433-635-B	METER DISPLAY ASSY (GSL)	(GT222/GT444/GT555)
201	A-1441-018-A	PANEL (GSL1) ASSY, DISPLAY (GT111)	
262	A-1527-851-A	TCM-J1 (Tape mechanism deck)	
262	1-797-575-11	DECK, MECHANICAL (CS-21SC-900TP)	
301	1-832-613-21	CABLE, FLEXIBLE FLAT (21 CORE)	
302	1-457-369-11	CORE, FERRITE	
⚠ 304	1-829-387-11	CORD, POWER (AR)	
⚠ 304	1-829-627-11	POWER-SUPPLY CORD (MX)	
⚠ 304	1-834-966-21	CORD, POWER (AEP, RU, E2, E3, E51)	
⚠ 304	1-835-078-21	CORD, POWER (UK)	
306	1-693-759-11	TUNER (FM/AM) (AEP, UK)	
306	1-693-760-11	TUNER (FM/AM) (RU)	
306	1-693-764-21	TUNER (FM/AM) (E2, E3, E51, MX, AR)	
401	1-835-352-21	WIRE (FLAT TYPE) (13 CORE)	
402	1-835-351-21	WIRE (FLAT TYPE) (31 CORE)	
501	1-797-193-31	MECHANICAL, CD (DLM3A) (MX)	
501	1-797-193-12	MECHANICAL, CD (DLM3A) (EXCEPT MX)	
⚠ 506	A-4735-357-A	BASE ASSY, OP (KSM-213)	
507	1-834-268-21	WIRE (FLAT TYPE) (16 CORE)	
⚠ F904	1-532-506-33	FUSE (T6.3AL/250V) (GT222/GT555)	
⚠ F905	1-532-506-33	FUSE (T6.3AL/250V) (GT222/GT555)	
⚠ F906	1-532-465-33	FUSE (T3.15AL/250V)	
⚠ F907	1-532-388-33	FUSE (T2AL/250V)	
⚠ F908	1-532-506-33	FUSE (T6.3AL/250V) (GT111)	
⚠ F908	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)	(GT222/GT444/GT555)
⚠ F909	1-532-506-33	FUSE (T6.3AL/250V) (GT111)	
⚠ F909	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V)	(GT222/GT444/GT555)
IC050	6-703-547-01	IC TA7805LS	
M1	A-1439-699-A	MOTOR ASSY (METER) (GT222/GT444/GT555)	
M101	1-763-372-11	FAN, DC (GT222)	
M101	1-787-344-11	FAN, DC (GT444/GT555)	
M102	1-763-372-11	FAN, DC	
⚠ PT901	1-445-385-11	POWER TRANSFORMER	(GT222: AEP, RU/GT555: RU)
⚠ PT901	1-445-386-11	POWER TRANSFORMER (GT111: AEP, RU)	
⚠ PT901	1-445-387-11	POWER TRANSFORMER	(GT111: E2, E3, E51, AR)
⚠ PT901	1-445-388-11	POWER TRANSFORMER	(GT222: MX/GT555: MX)
⚠ PT901	1-445-390-11	POWER TRANSFORMER	(GT222: E2, E51, AR/GT555: E2, E51, AR)
⚠ PT901	1-445-391-11	POWER TRANSFORMER (GT444: AEP, UK, RU)	
⚠ PT901	1-445-393-11	POWER TRANSFORMER (GT444: E2, E51, AR)	
⚠ PT901	1-445-394-11	POWER TRANSFORMER (GT444: MX)	
S201	1-771-853-11	SWITCH, DETECTION (LIMIT)	
**********			
		ACCESSORY	
		**********	
⚠	1-569-008-22	ADAPTOR, CONVERSION 2P (E2, E3, E51)	

Note: When you exchange Ref. No. 260, 261 or 262, Please refer to “HOW TO DISTINGUISH TAPE MECHANISM DECK” of the service note (6 page).

REVISION HISTORY

Checking the version allows you to jump to the revised page.
Also, clicking the version at the top of the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2008.04	New