HCD-GTZ2/GTZ2i/ GTZ3/GTZ3i

SERVICE MANUAL

Ver. 1.1 2009.08

AEP Model
HCD-GTZ2i/GTZ3i
UK Model
HCD-GTZ3i
E Model
HCD-GTZ2/GTZ3

- HCD-GTZ2 is the amplifier, USB, Disc player, tuner and iPod section in MHC-GTZ2.
- HCD-GTZ2i is the amplifier, USB, Disc player, tuner and iPod section in MHC-GTZ2i.
- HCD-GTZ3 is the amplifier, USB, Disc player, tuner and iPod section in MHC-GTZ3.
- HCD-GTZ3i is the amplifier, USB, Disc player, tuner and iPod section in MHC-GTZ3i.

Photo: HCD-GTZ3

Model Name Using Similar Mechanism	NEW
Mechanism Type	CDM88B-DVBU101
Optical Pick-up Block Name	KHM-313CAB

SPECIFICATIONS

Amplifier section

HCD-GTZ3 / GTZ3i

The following are measured at
Mexican model:
AC 127 V, 60 Hz
European model:
AC 230 V, 50 Hz
Other models:
AC 120, 220, 240 V, 50/60 Hz
Front speaker
Power output (rated): 75 W + 75 W (at 6 Ω, 1 kHz, 1% THD)
RMS output power (reference): 135 W + 135 W (per channel at 6 Ω, 1 kHz, 10% THD)
Subwoofer
RMS output power (reference): 130 W (at 6 Ω, 100 Hz, 10% THD)

HCD-GTZ2 / GTZ2i

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

PC (AUDIO IN) L/R:
Voltage 700 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-GTZ3 / GTZ3i only):
accepts impedance of 6 Ω

USB section

Supported bit rate
MP3 (MPEG 1 Audio Layer-3): 32 – 320 kbps, VBR
WMA: 48 – 192 kbps
AAC: 48 – 320 kbps
Sampling frequencies
MP3 (MPEG 1 Audio Layer-3): 32/44.1/48 kHz
WMA: 44.1 kHz
AAC: 44.1 kHz
Transfer speed
Full-Speed
Supported USB device
Mass Storage Class
Maximum current
500 mA

Disc 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

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

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

AM tuner section

Tuning range
Pan American models:
530 – 1,710 kHz (with 10 kHz tuning interval)
531 – 1,710 kHz (with 9 kHz tuning interval)
European 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

iPod section

DC5V 500mA MAX

General

Power requirements
European 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-GTZ3 / GTZ3i: 280 W
HCD-GTZ2 / GTZ2i: 190 W
Dimensions (w/h/d) (excl. speakers)
Approx. 231 × 361 × 430.5 mm (9 1/8 × 14 1/4 × 17 1/4 inch)
Mass (excl. speakers)
HCD-GTZ3 / GTZ3i: 10.0 kg (22 lb 1 oz)
HCD-GTZ2 / GTZ2i: 8.0 kg

Design and specifications are subject to change without notice.

- Standby power consumption 0.5 W
- Halogenated flame retardants are not used in the certain printed wiring boards.

COMPACT DISC RECEIVER

9-889-506-02
2009H05-1

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

SONY®

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Accessories are given in the last of the electrical parts list.

Note: Refer to supplement-1 for the DISPLAY board of printed wiring board, schematic diagram and electrical parts list of Mexican model.

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 COMPONENT WARNING!

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

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.

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 viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

NOTE OF REPLACING THE IC102 ON THE DMB19 BOARD

IC102 on the DMB19 board cannot exchange with single. When this part is damaged, exchange the entire mounted board.

RELEASING THE DISC TRAY LOCK

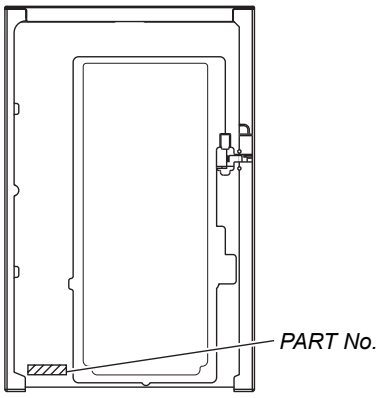
The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Releasing Procedure:

1. Press [I/⏻ STANDBY] button to turn the power on.
2. Press the [CD] button to select CD function.
3. While pressing the [■] button, press the [⏏ OPEN/CLOSE] 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/⏻ STANDBY] button.

MODEL IDENTIFICATION
– Back Panel –



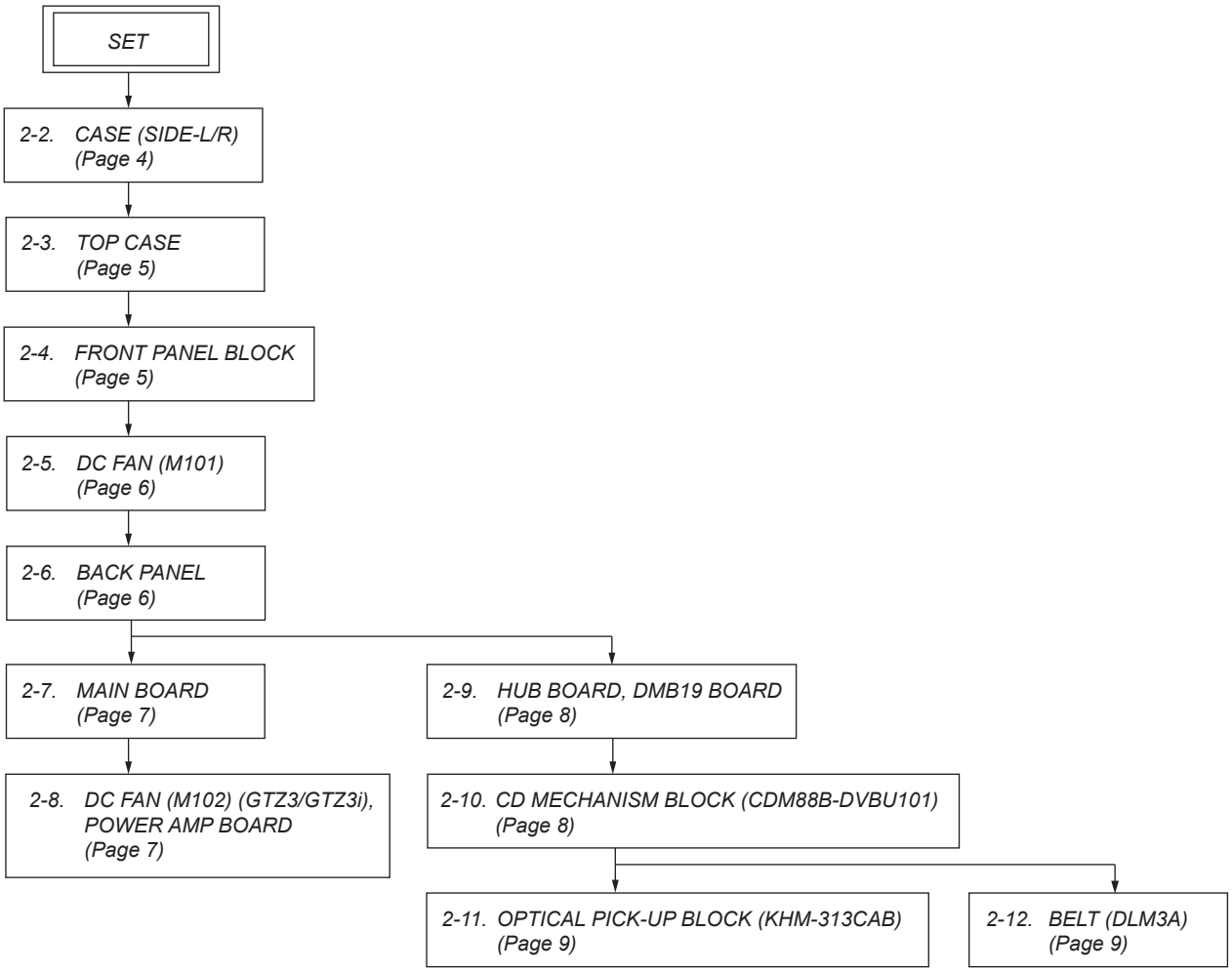
Model	Part No.
HCD-GTZ3: E2, E51	4-131-036-0□
HCD-GTZ3: MX	4-131-036-3□
HCD-GTZ3: AR	4-131-036-1□
HCD-GTZ3i: AEP, UK	4-131-036-7□
HCD-GTZ3: E3	4-131-036-8□
HCD-GTZ2: E51	4-131-037-0□
HCD-GTZ2: MX	4-131-037-3□
HCD-GTZ2i: AEP	4-131-037-7□

- 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

SECTION 2
DISASSEMBLY

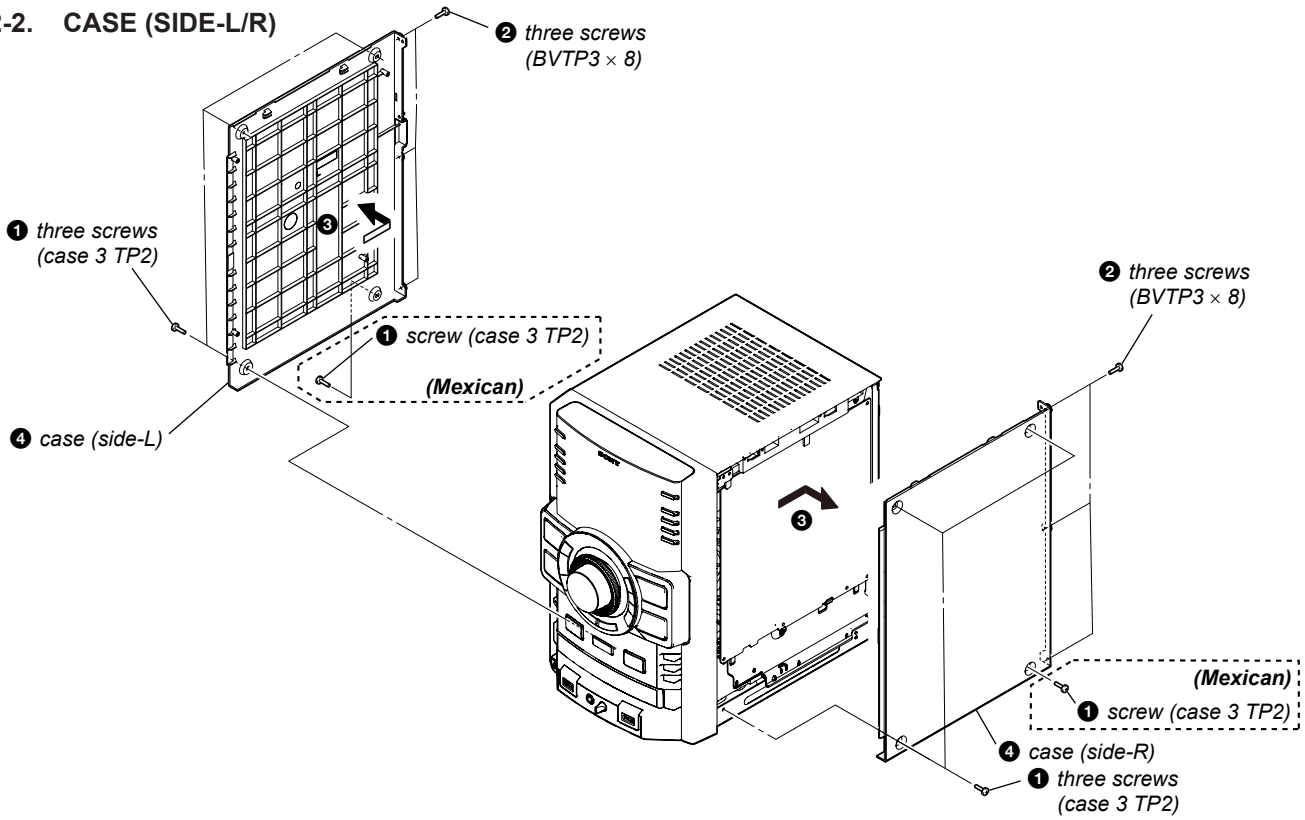
- This set can be disassembled in the order shown below.

2-1. DISASSEMBLY FLOW

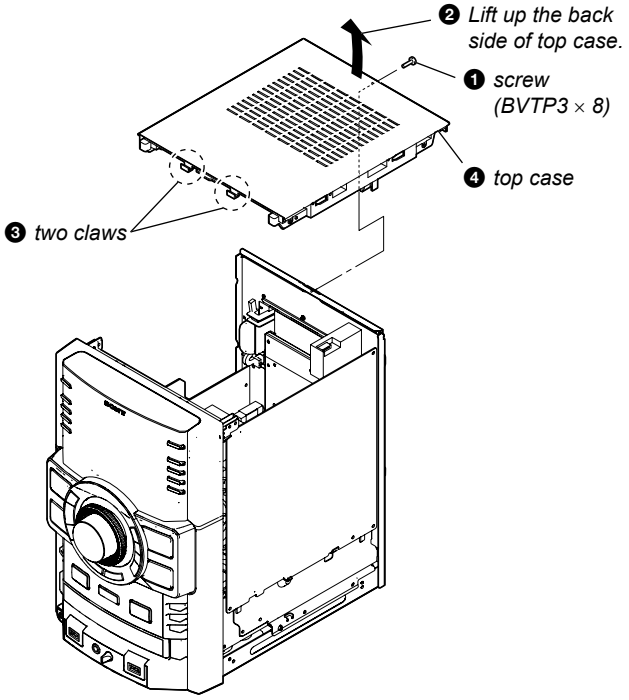


Note: Follow the disassembly procedure in the numerical order given.

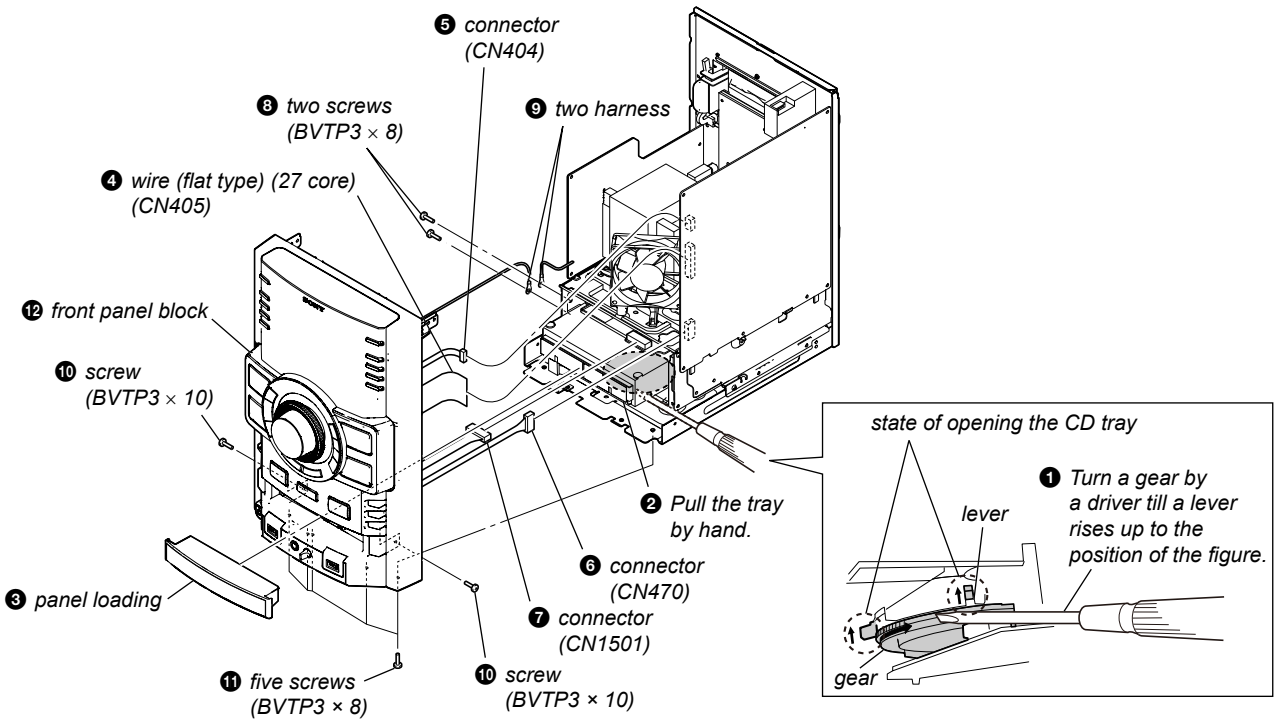
2-2. CASE (SIDE-L/R)



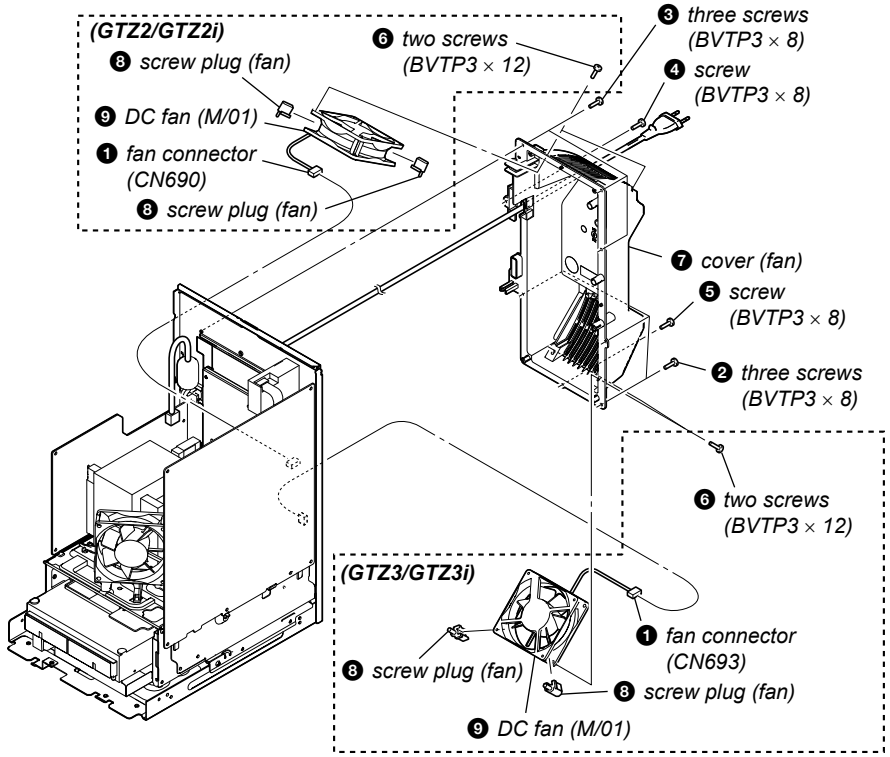
2-3. TOP CASE



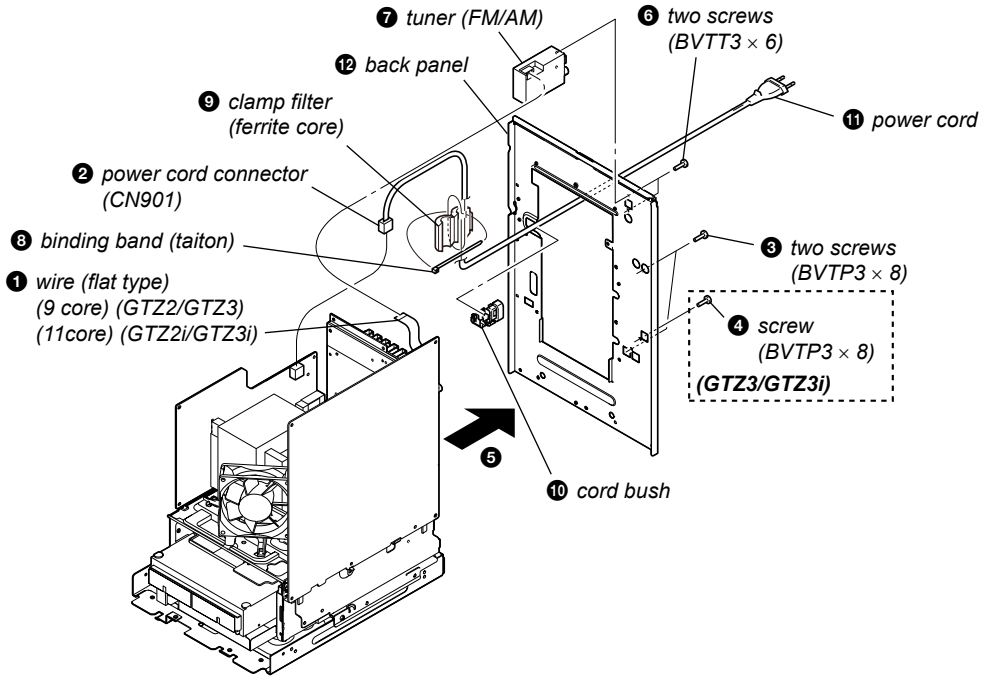
2-4. FRONT PANEL BLOCK



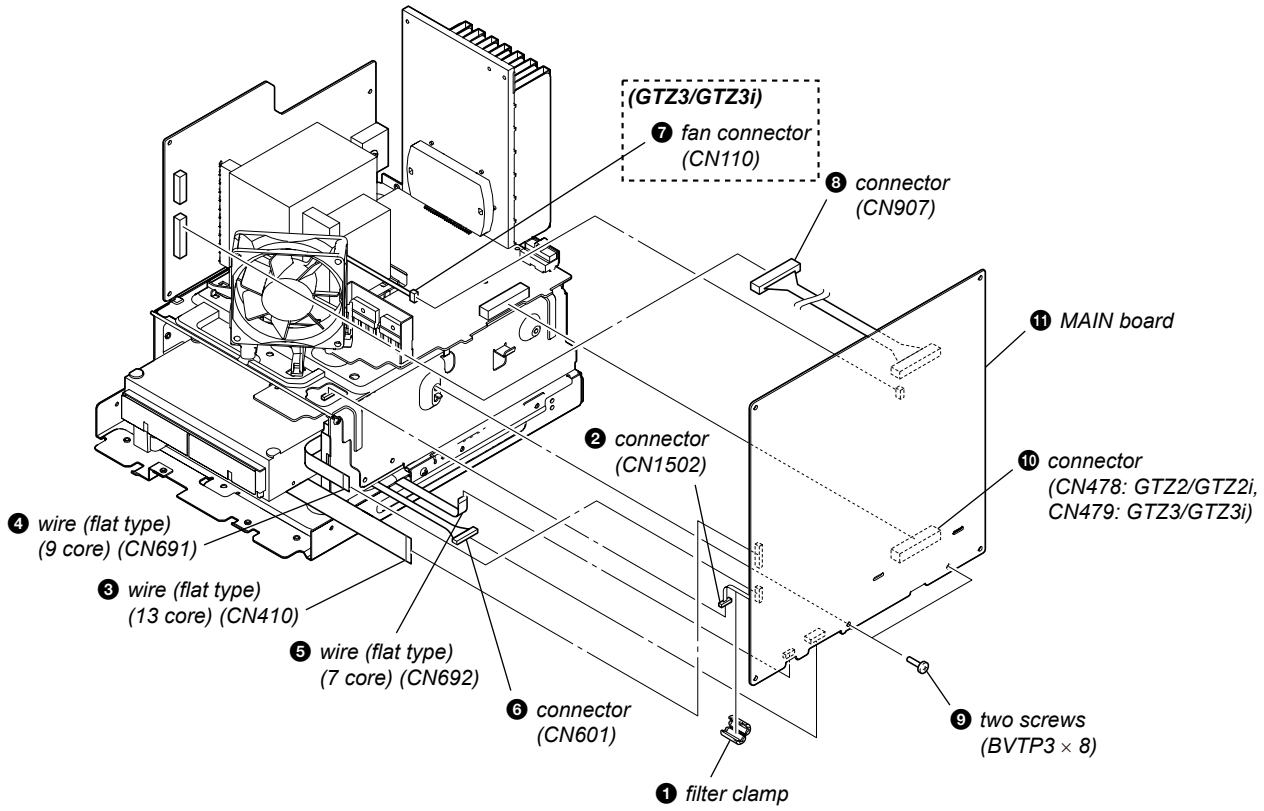
2-5. DC FAN (M101)



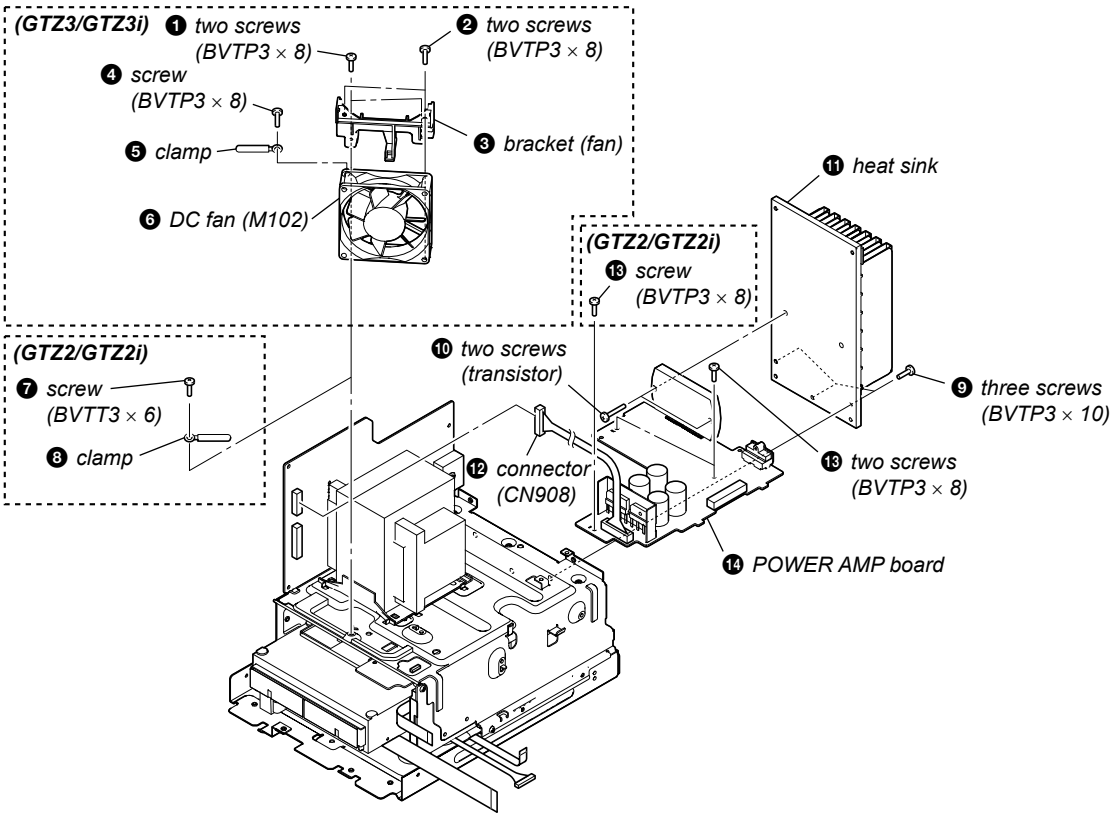
2-6. BACK PANEL



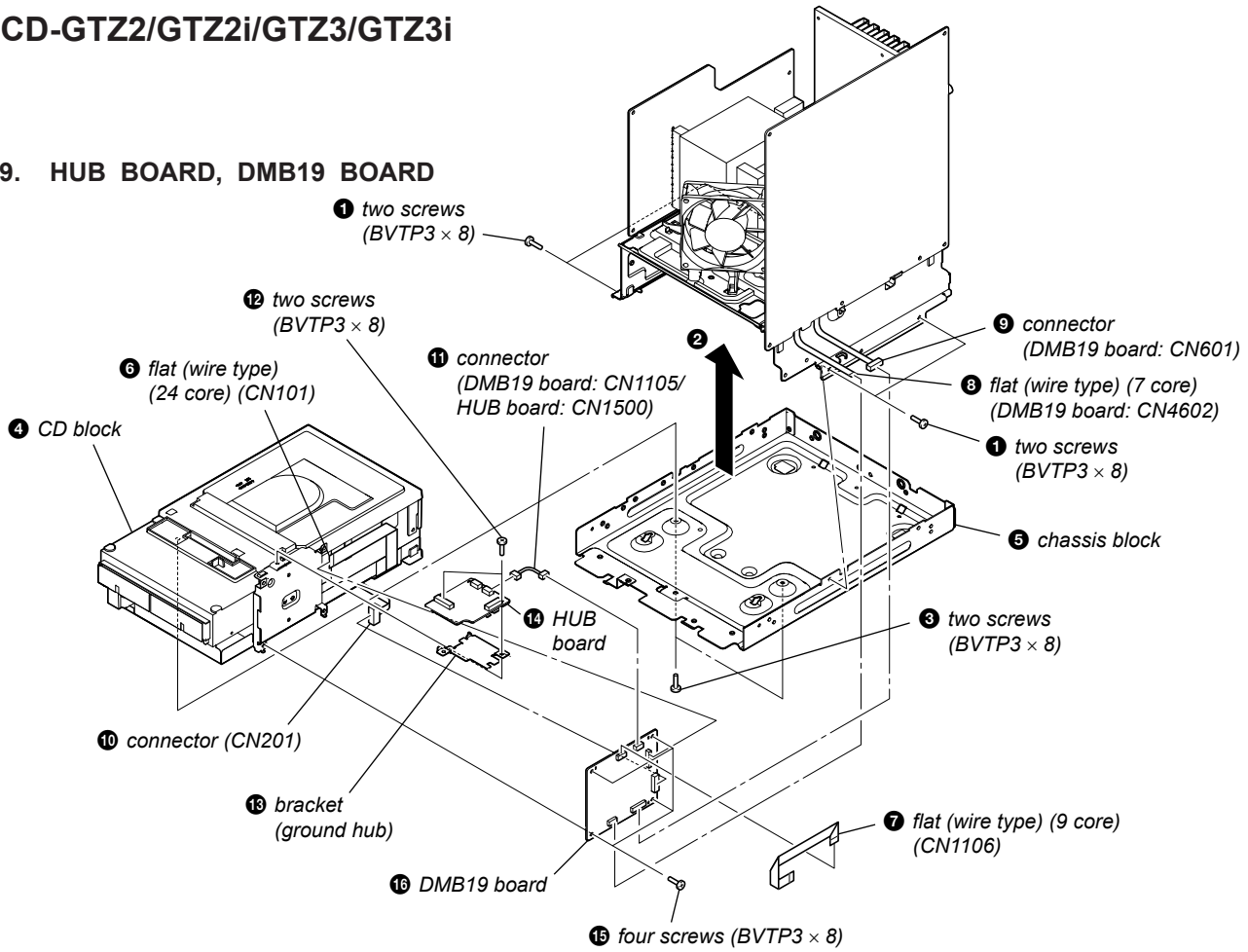
2-7. MAIN BOARD



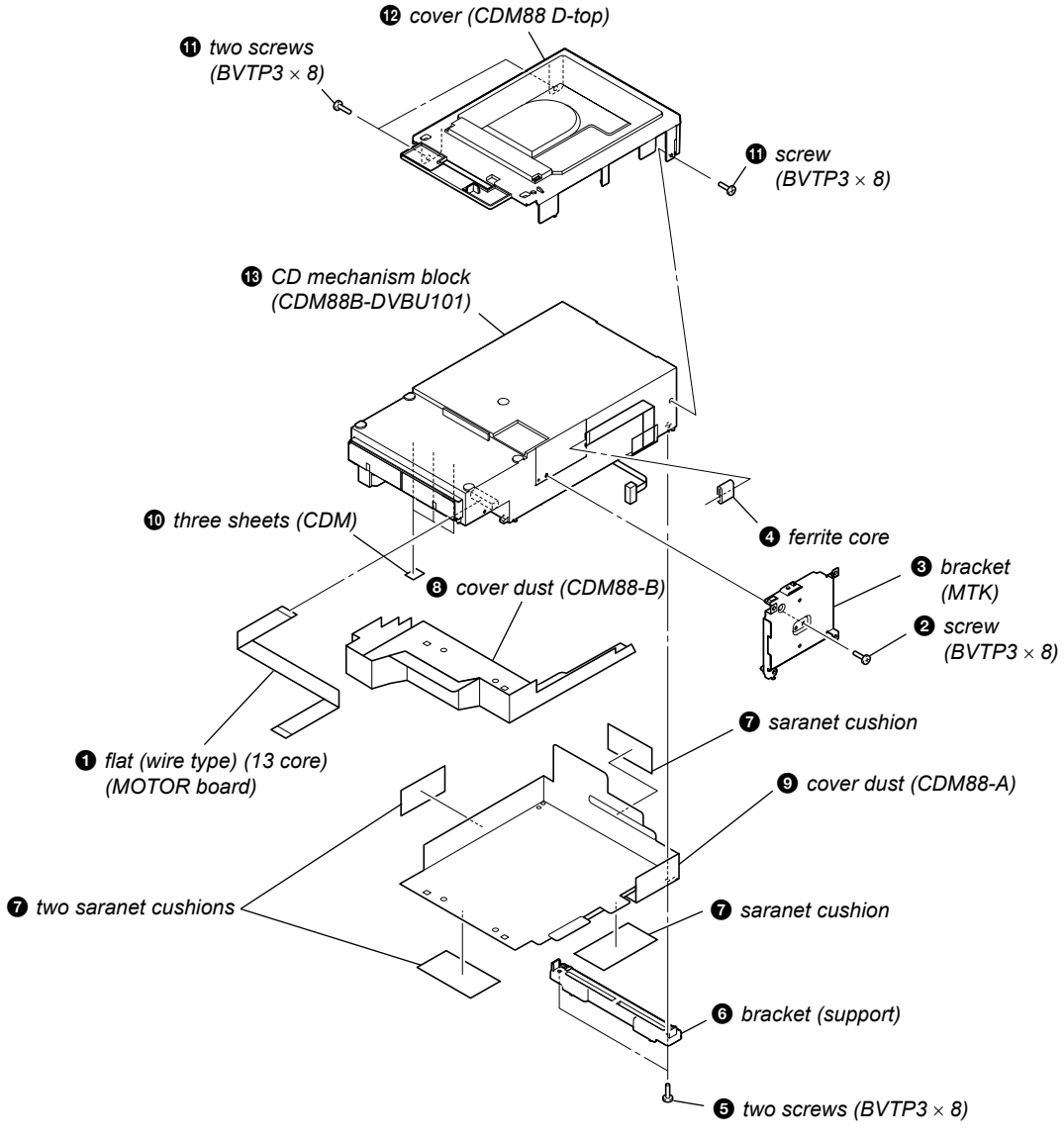
2-8. DC FAN (M102) (GTZ3/GTZ3i), POWER AMP BOARD



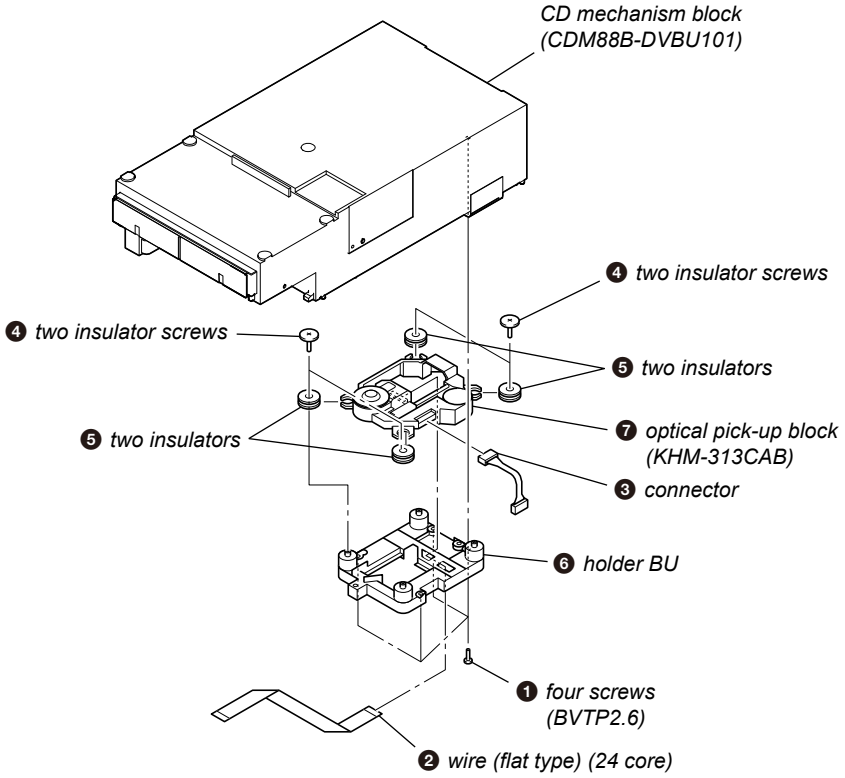
2-9. HUB BOARD, DMB19 BOARD



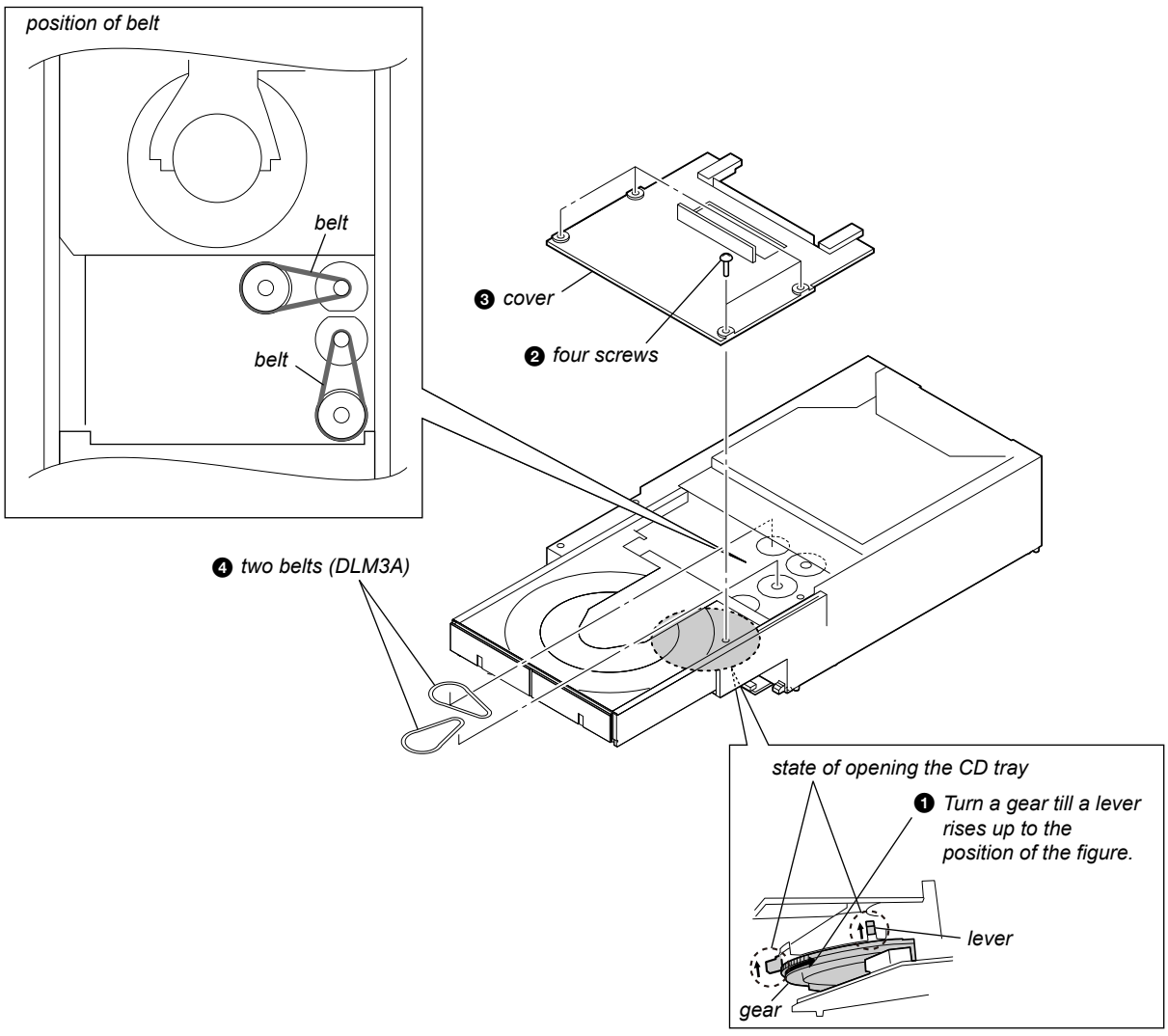
2-10. CD MECHANISM BLOCK (CDM88B-DVBU101)



2-11. OPTICAL PICK-UP BLOCK (KHM-313CAB)



2-12. BELT (DLM3A)



SECTION 3
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 [■], [METER MODE] and [DISC 2] buttons simultaneously.
2. All LEDs and segments in fluorescent indicator tube are lighted up.
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. “GTL 1” or “GTL 1I” is shown for HCD-GTZ2/GTZ2i, “GTL 1S” or “GTL 1SI” is shown for HCD-GTZ3/GTZ3i. 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, MTK (DMB board firmware version), GC, SYS, CD, CDMA, CDMB, ST, TA, TM, 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 amplifier section.

To enter common test mode

Procedure:

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

To release from common test mode

Procedure:

1. To release from this mode, press [I/⏻ STANDBY] 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/⏻ STANDBY] button to turn on the system.
2. Press [■], [ENTER] and [I/⏻ STANDBY] buttons 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/⏻ STANDBY] button to turn on the system.
2. Press [■], [DISC 2] and [DISPLAY] buttons simultaneously. The message “VACS OFF” or “VACS ON” appears on the fluorescent indicator tube.

TUNER STEP CHANGE (Except AEP and UK models)

The step interval of AM channels can be toggled between 9 kHz and 10 kHz. This mode is not available for AEP and UK models.

Procedure:

1. Press [I/⏻ STANDBY] button to turn on the system.
2. Press [TUNER/BAND] button repeatedly to select the "AM".
3. Press [I/⏻ STANDBY] button to turn off the system.
4. Press [ENTER] and [I/⏻ STANDBY] buttons 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 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/⏻ STANDBY] button to turn on the system.
2. Press [CD] button to select CD function.
3. Press [■], [DISC 1] and [I/⏻ STANDBY] buttons 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.
5. Unplug the power supply cable.

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/⏻ STANDBY] button to turn on the system.
2. Press [CD] button to select CD function.
3. Press [DISC SKIP/EX-CHANGE] and [I/⏻ STANDBY] buttons 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.
5. Unplug the power supply cable.

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/⏻ STANDBY] button to turn on the system.
2. Press [CD] button to select CD function.
3. Press [■] and [⏏ OPEN/CLOSE] buttons 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/⏻ STANDBY] button to turn on the system.
2. Press [SURROUND], [■] and [DISC 1] buttons 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.

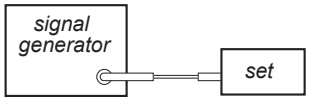
Procedure:

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

SECTION 4
ELECTRICAL CHECK

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)

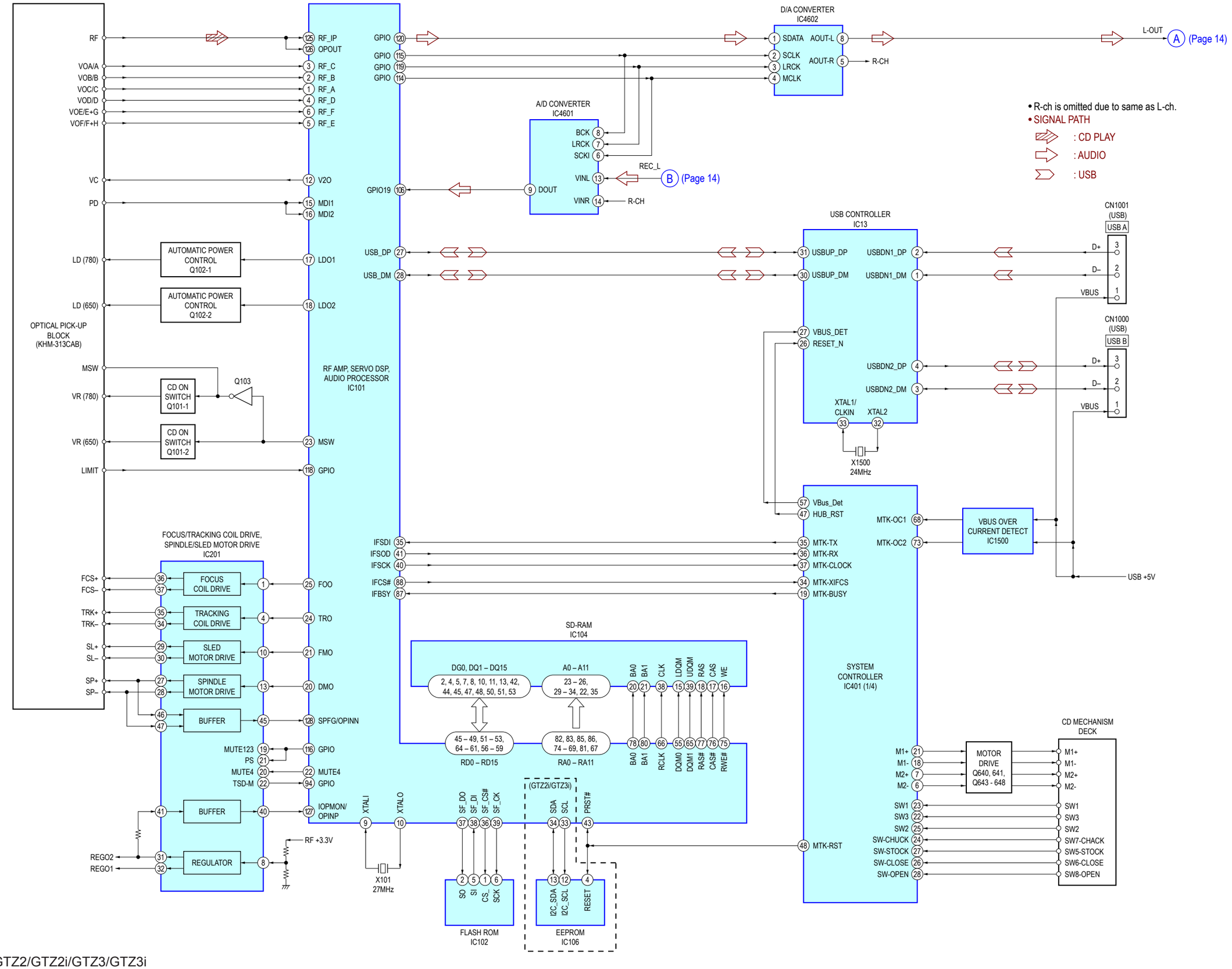
Note: Use 75 ohm coaxial cable to connect signal generator and the set.
You cannot use video cable for checking.
Use signal generator whose output impedance is 75 ohm.

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.

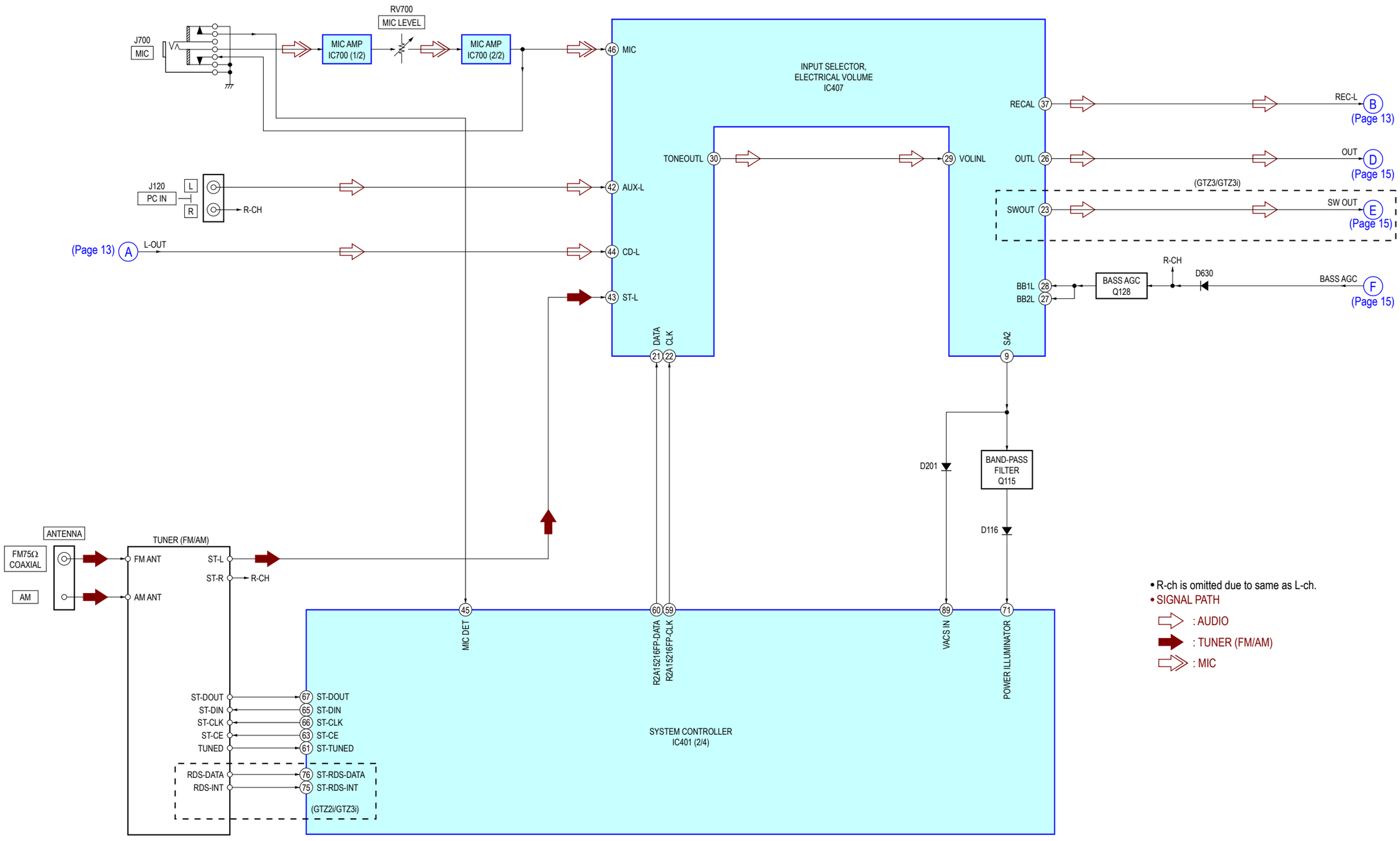
When the selected station signal is received in good condition, “TUNED” is displayed.

SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM - RF SERVO, USB Section -

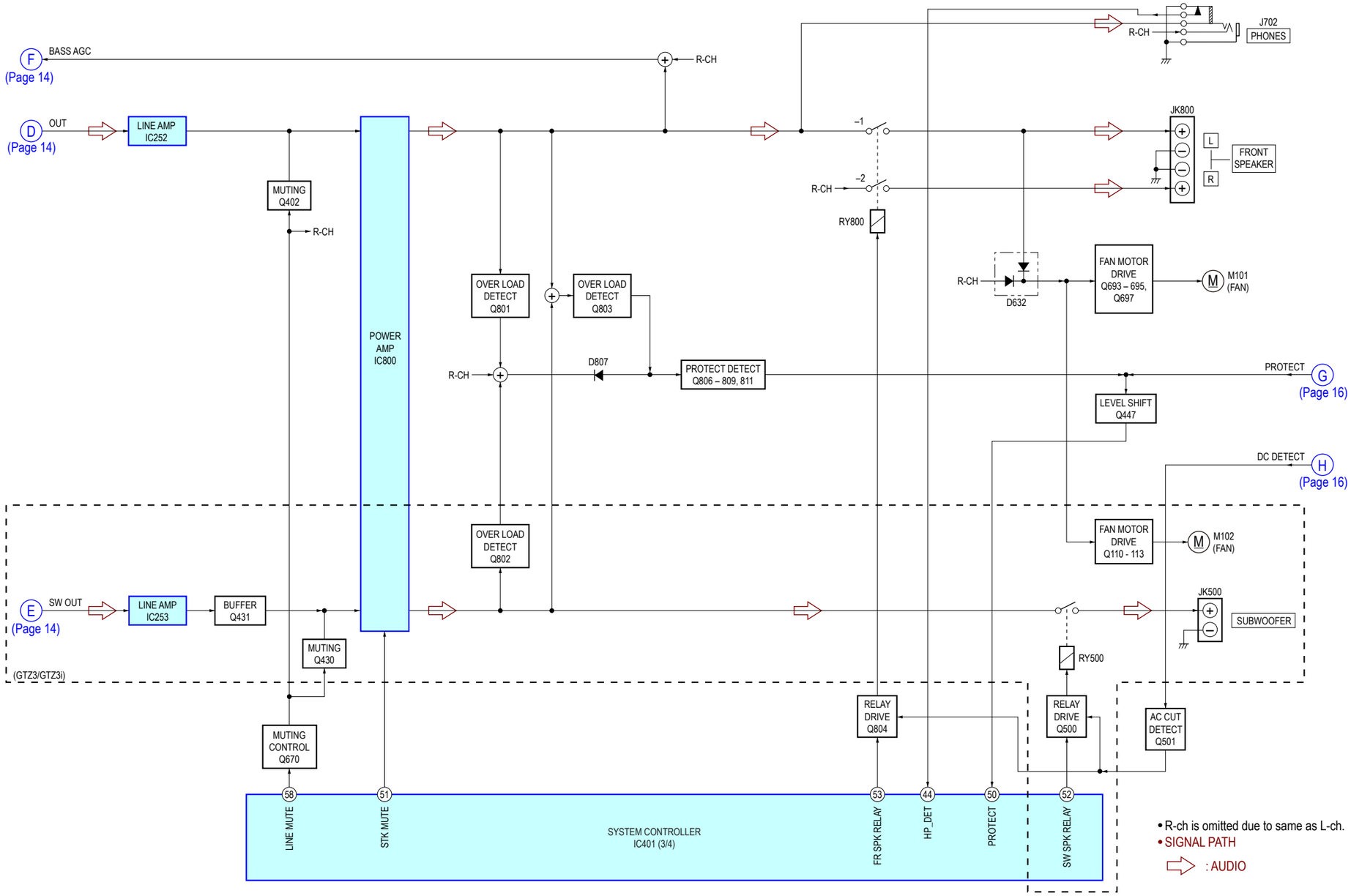


5-2. BLOCK DIAGRAM - MAIN Section -

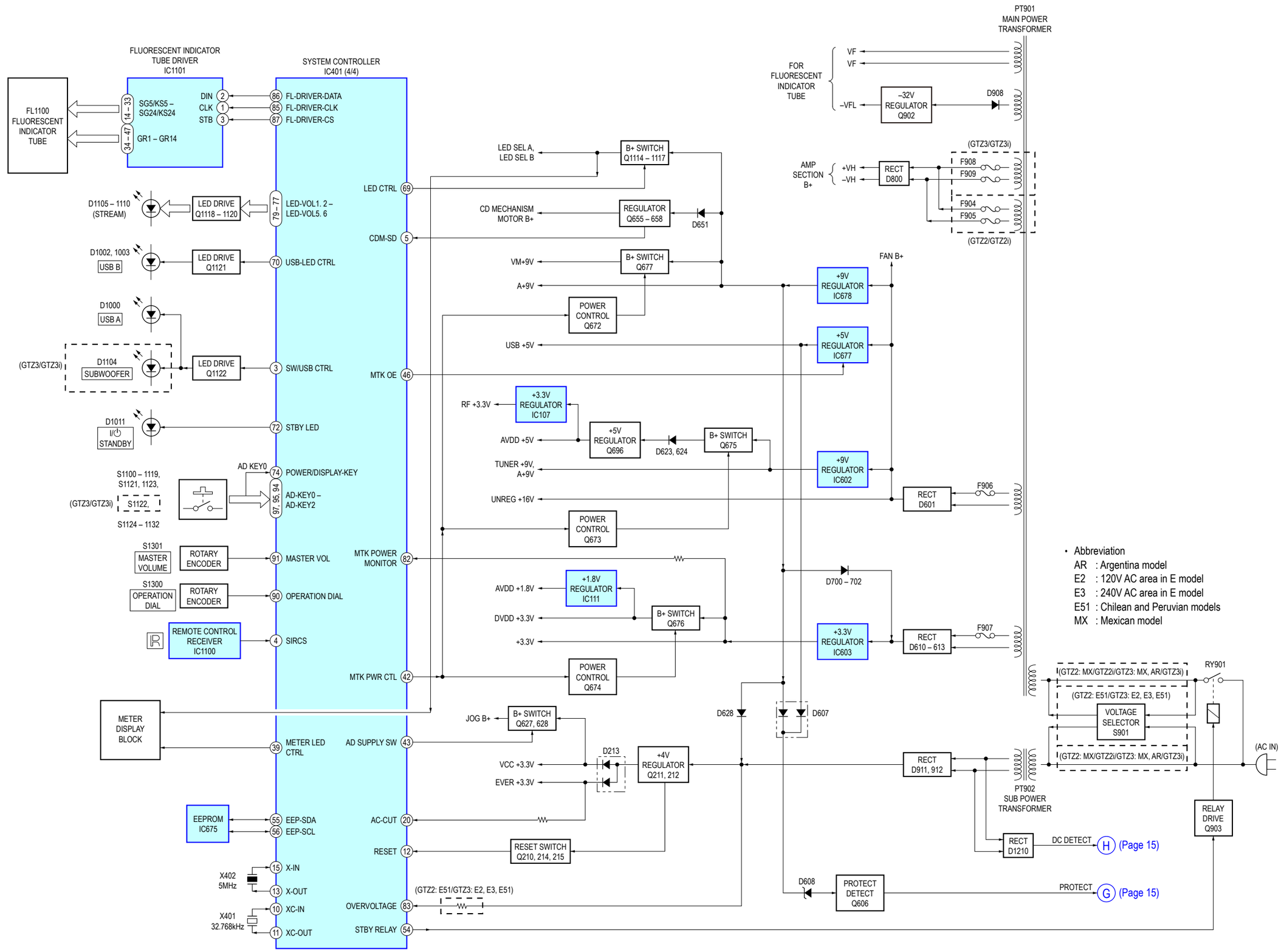


- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : AUDIO
  - : TUNER (FM/AM)
  - : MIC

5-3. BLOCK DIAGRAM - AMP Section -



5-4. 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.

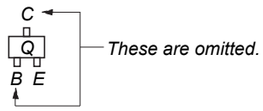
Note:

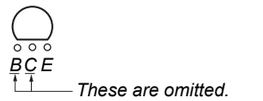
- ○——: Parts extracted from the component side.
- ——: Parts extracted from the conductor side.
- △ : Internal component.
- : Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)

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.

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

- DMB19 board is multi-layer printed board.
  However, the patterns of intermediate layers have not been included in diagrams.
- Indication of transistor.





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

For Schematic Diagrams.

Note:

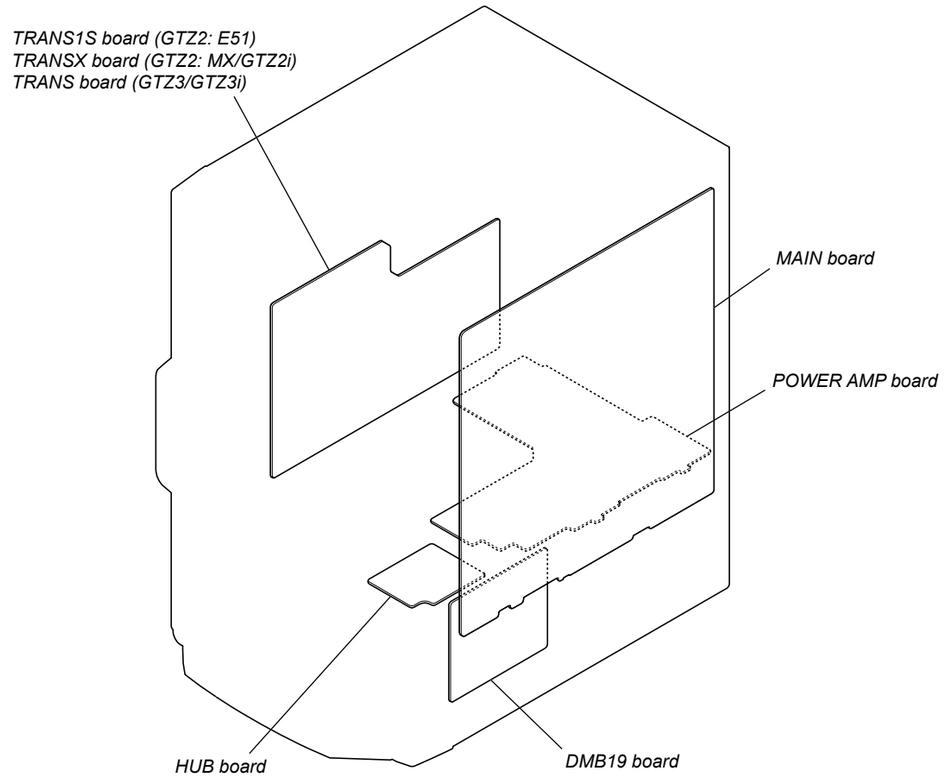
- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : Internal component.
- : Nonflammable resistor.
- : Fusible resistor.
- : Panel designation.

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

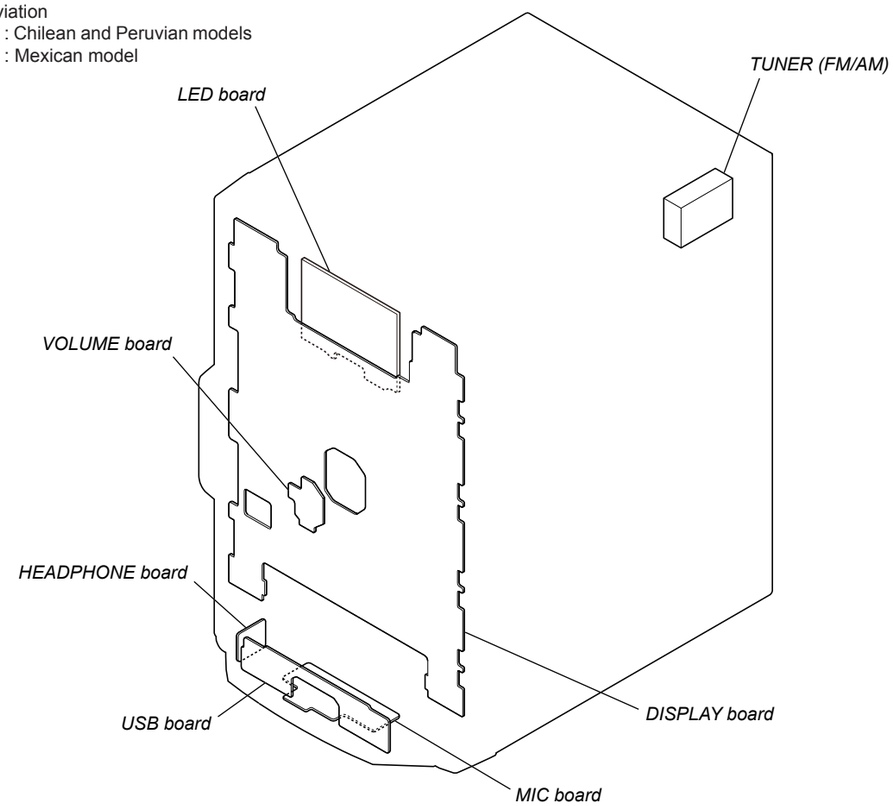
- : B+ Line.
- : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: TUNER (FM/AM)
  ( ): CD PLAY
  < >: USB
  { }: PC
  * : Impossible to measure
- Voltages are taken with VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due 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.
  : AUDIO
  : CD PLAY
  : TUNER (FM/AM)
  : MIC
  : USB

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

- **Circuit Boards Location**



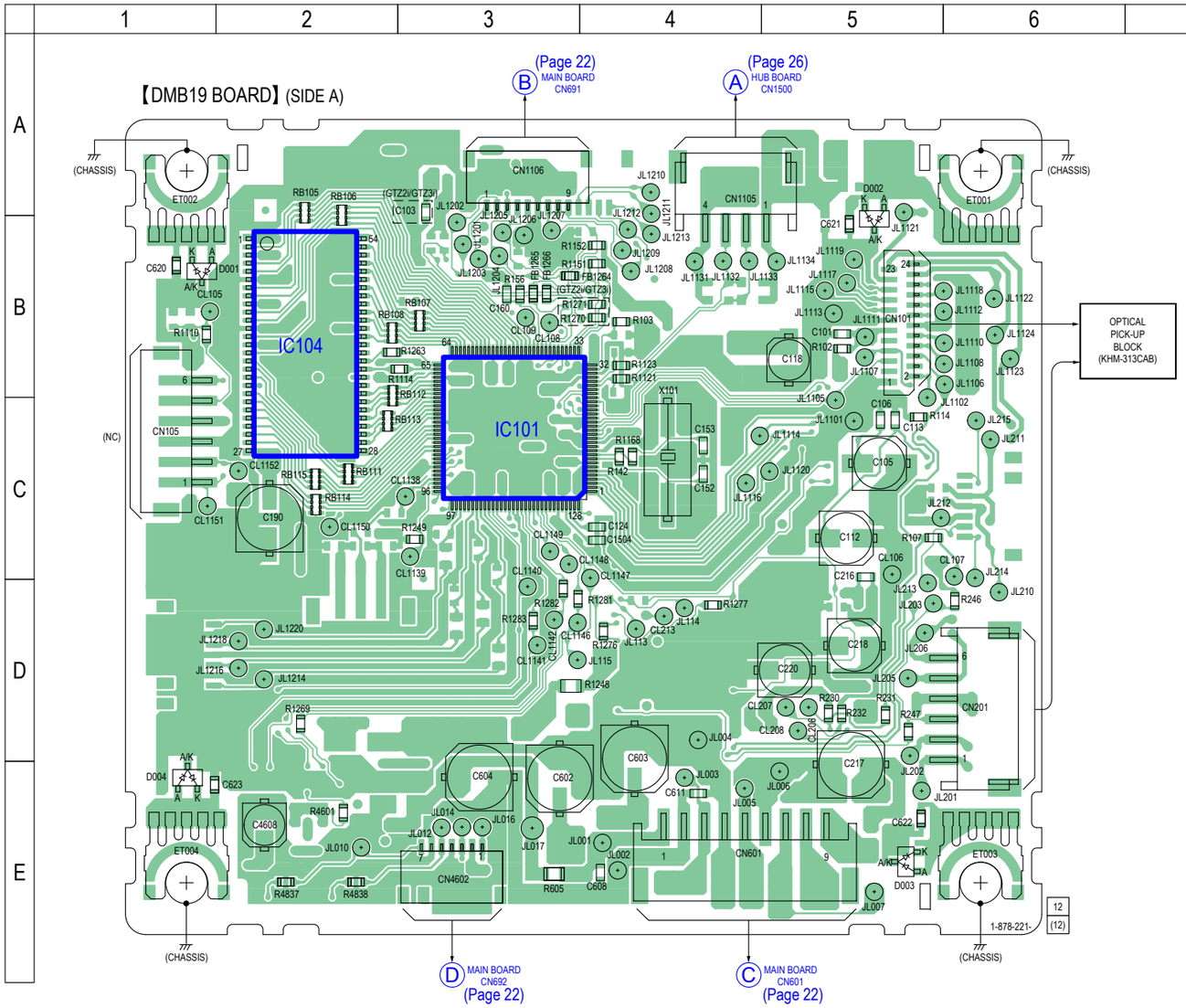
- Abbreviation
  E51 : Chilean and Peruvian models
  MX : Mexican model



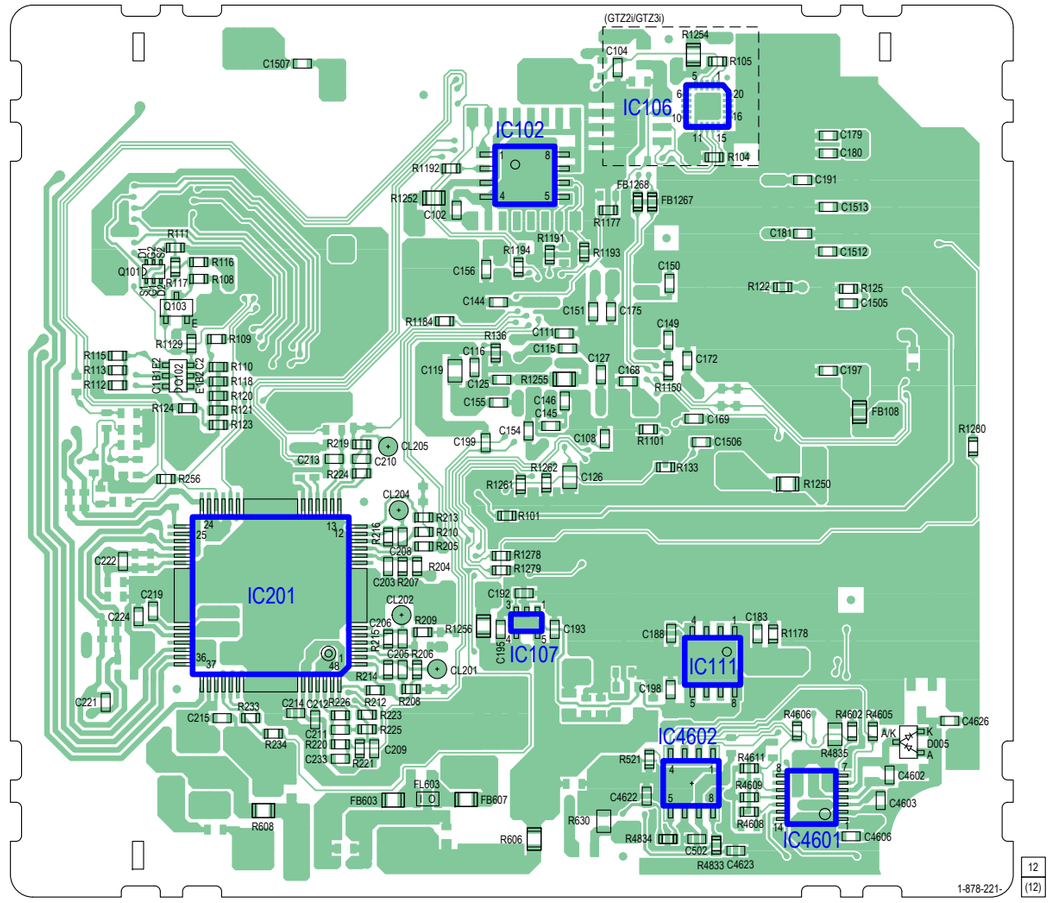
5-5. PRINTED WIRING BOARD - DMB19 Board -

• See page 17 for Circuit Boards Location. • : Uses unleaded solder.

【DMB19 BOARD】(SIDE A)

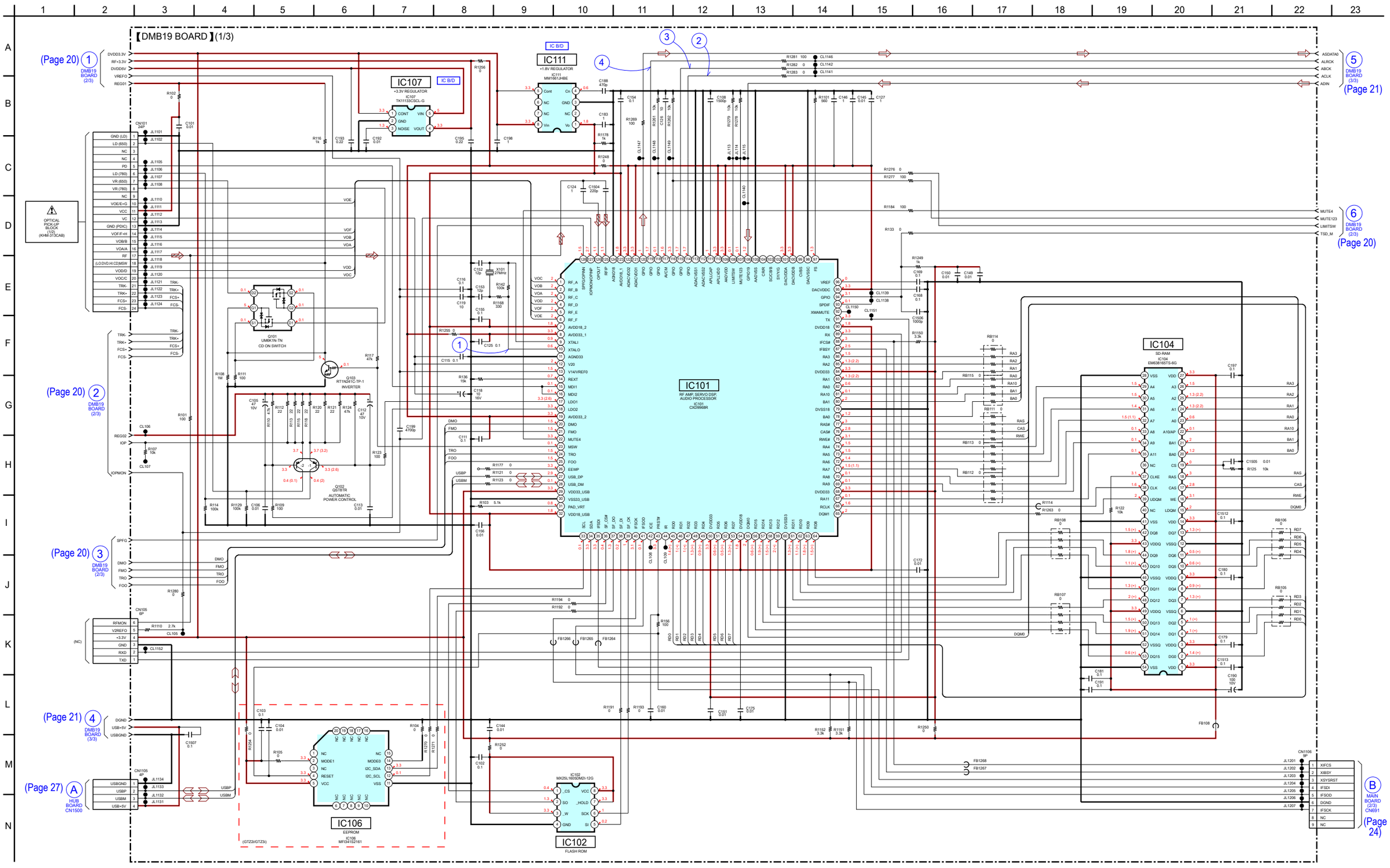


【DMB19 BOARD】(SIDE B)



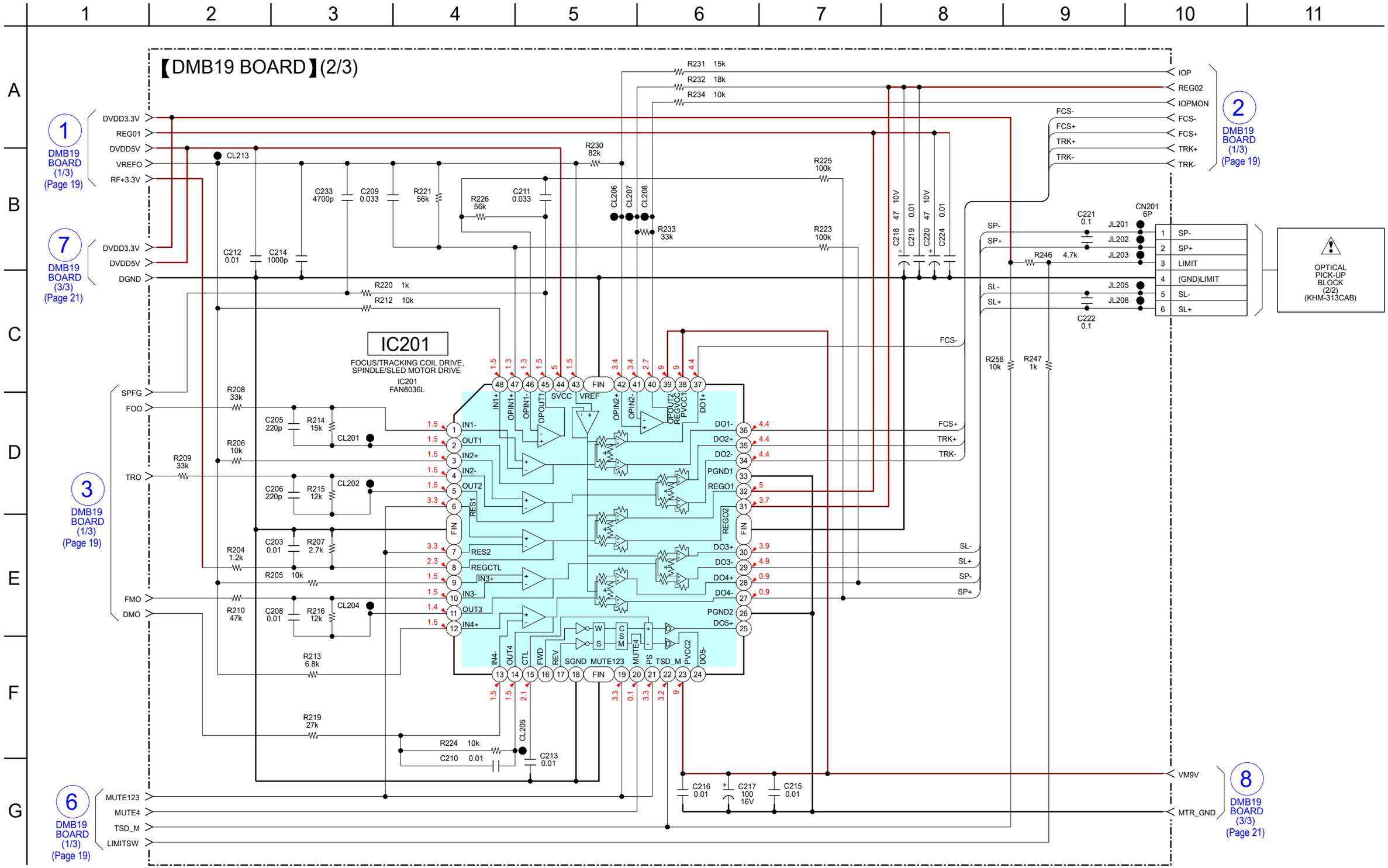
Note: When IC102 cannot exchange with single. When this part is damaged, exchange the entire mounted board.

5-6. SCHEMATIC DIAGRAM - DMB19 Board (1/3) - • See page 40 for Waveforms. • See page 40 for IC Block Diagrams. • See page 43 for IC Pin Function Description.

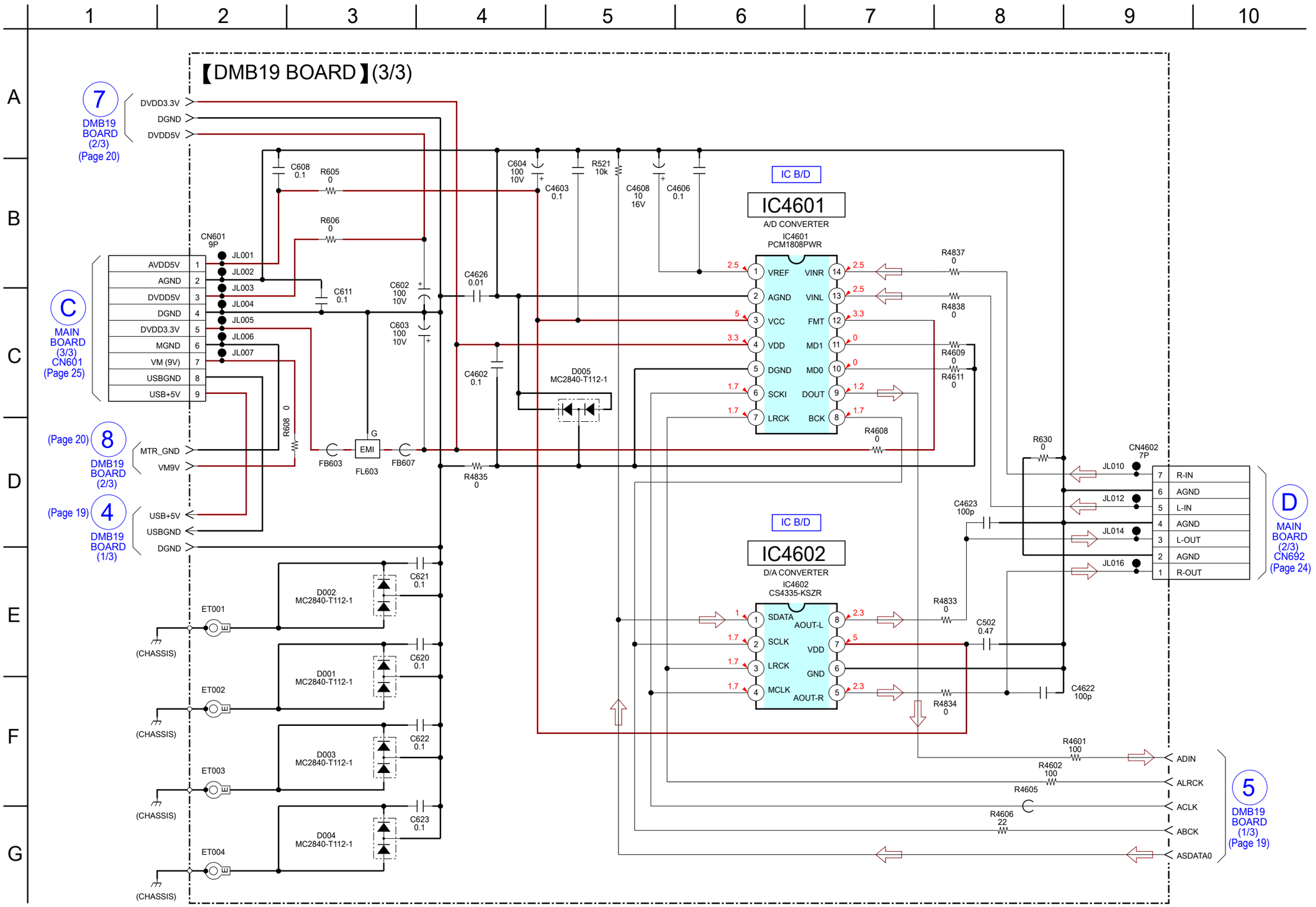


Note: When IC102 cannot exchange with single. When this part is damaged, exchange the entire mounted board.

5-7. SCHEMATIC DIAGRAM - DMB19 Board (2/3) -

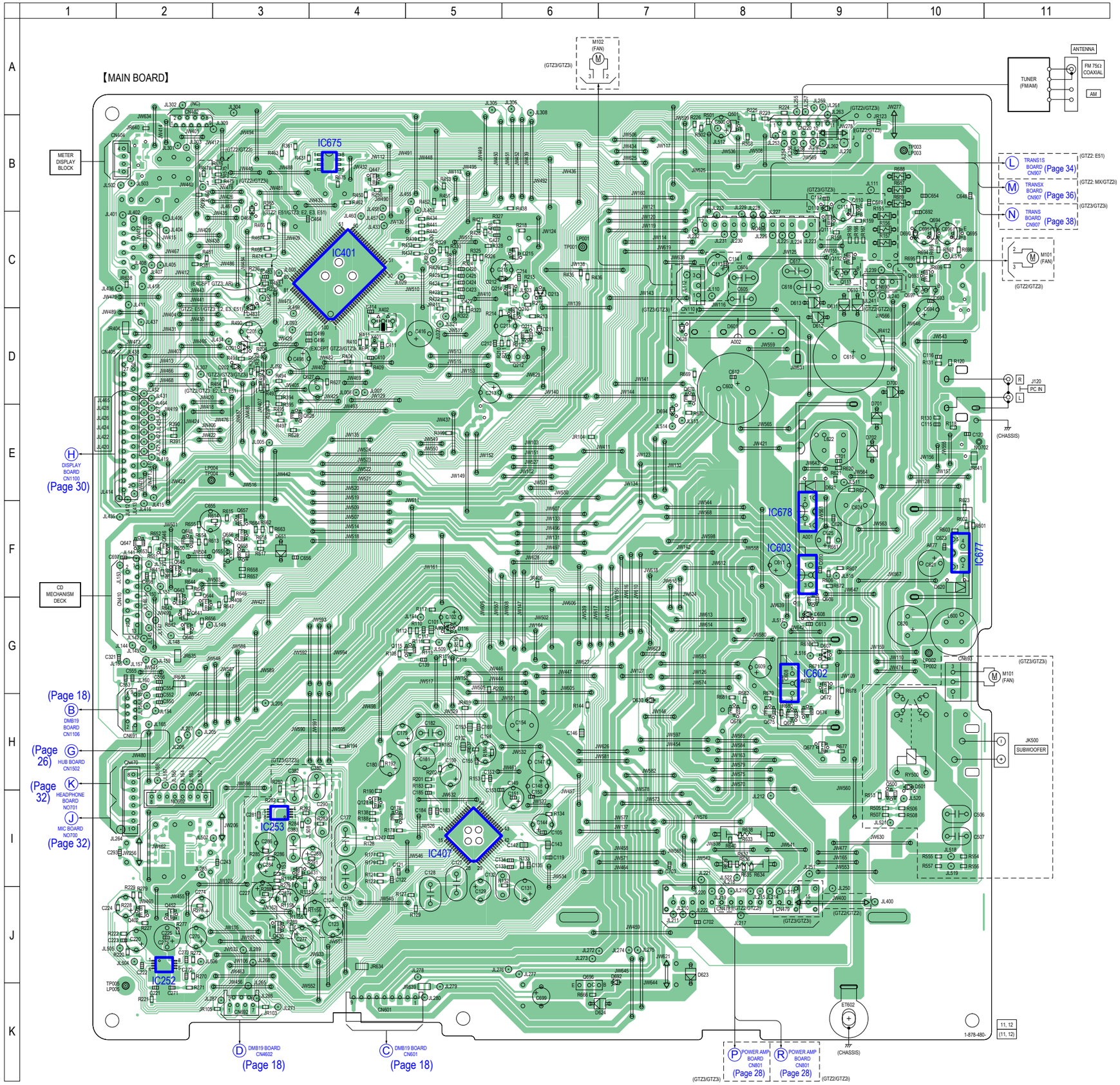


5-8. SCHEMATIC DIAGRAM - DMB19 Board (3/3) - • See page 40 for IC Block Diagrams.

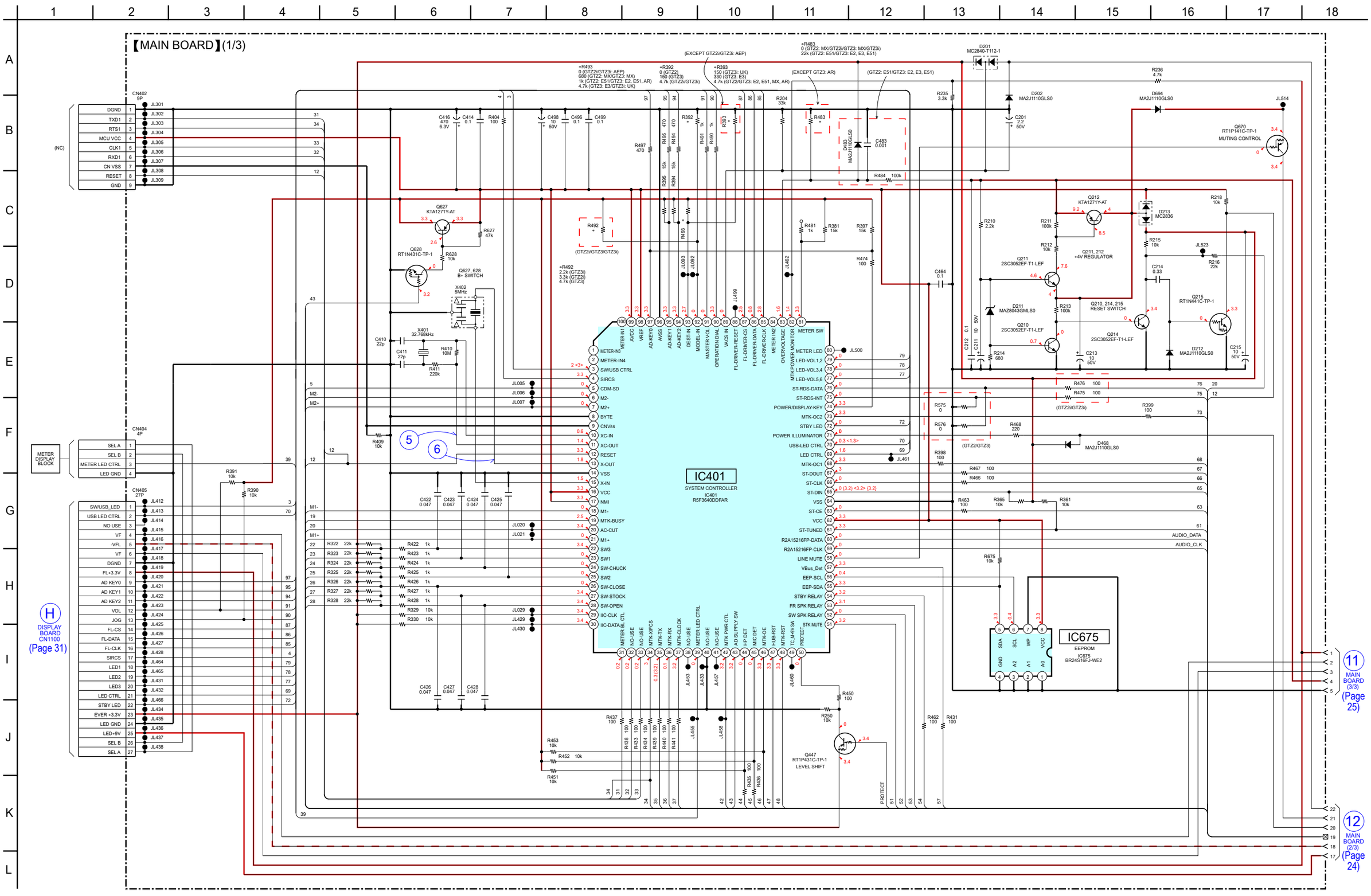


5-9. PRINTED WIRING BOARD - MAIN Board -

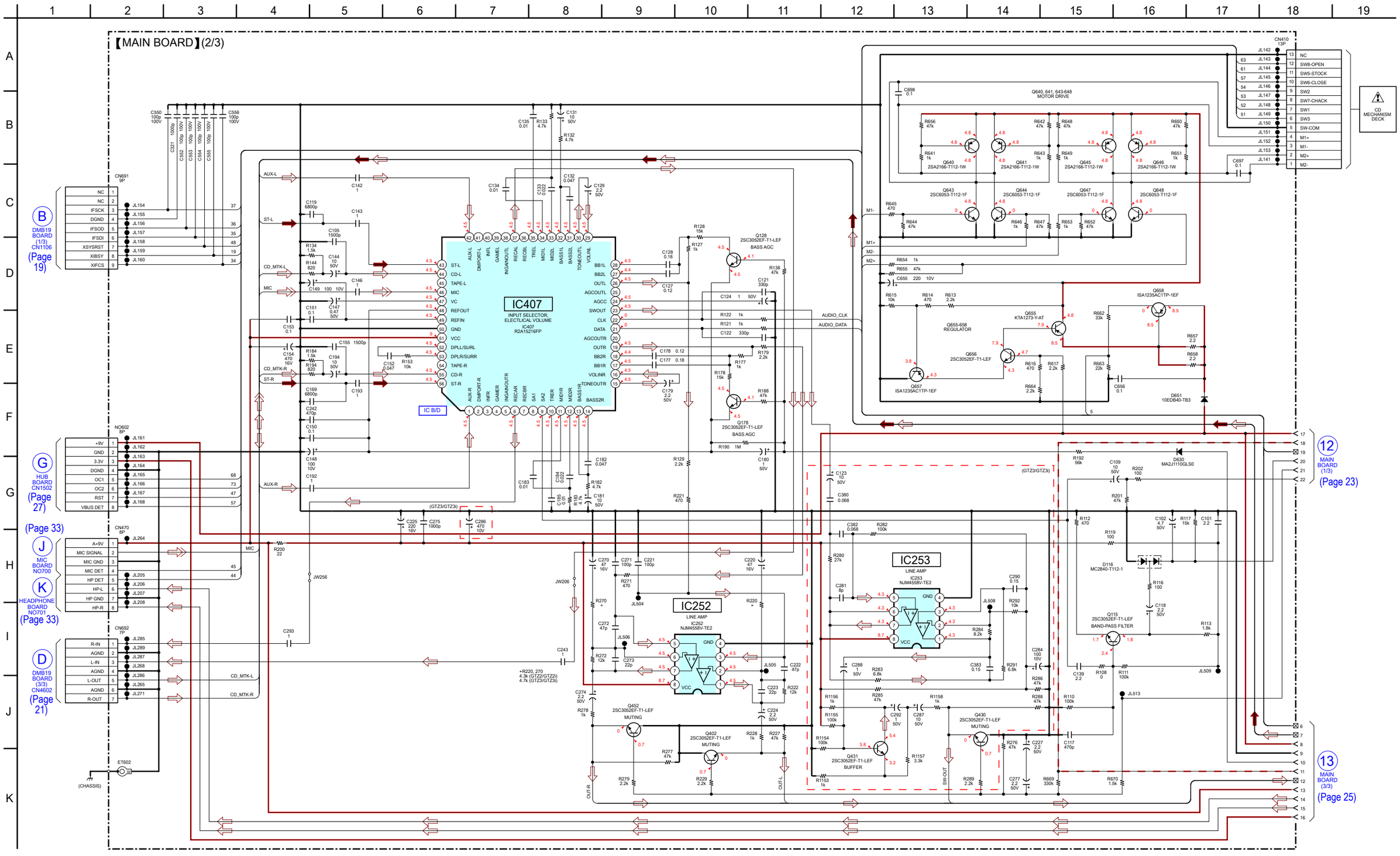
• See page 17 for Circuit Boards Location. • : Uses unleaded solder.



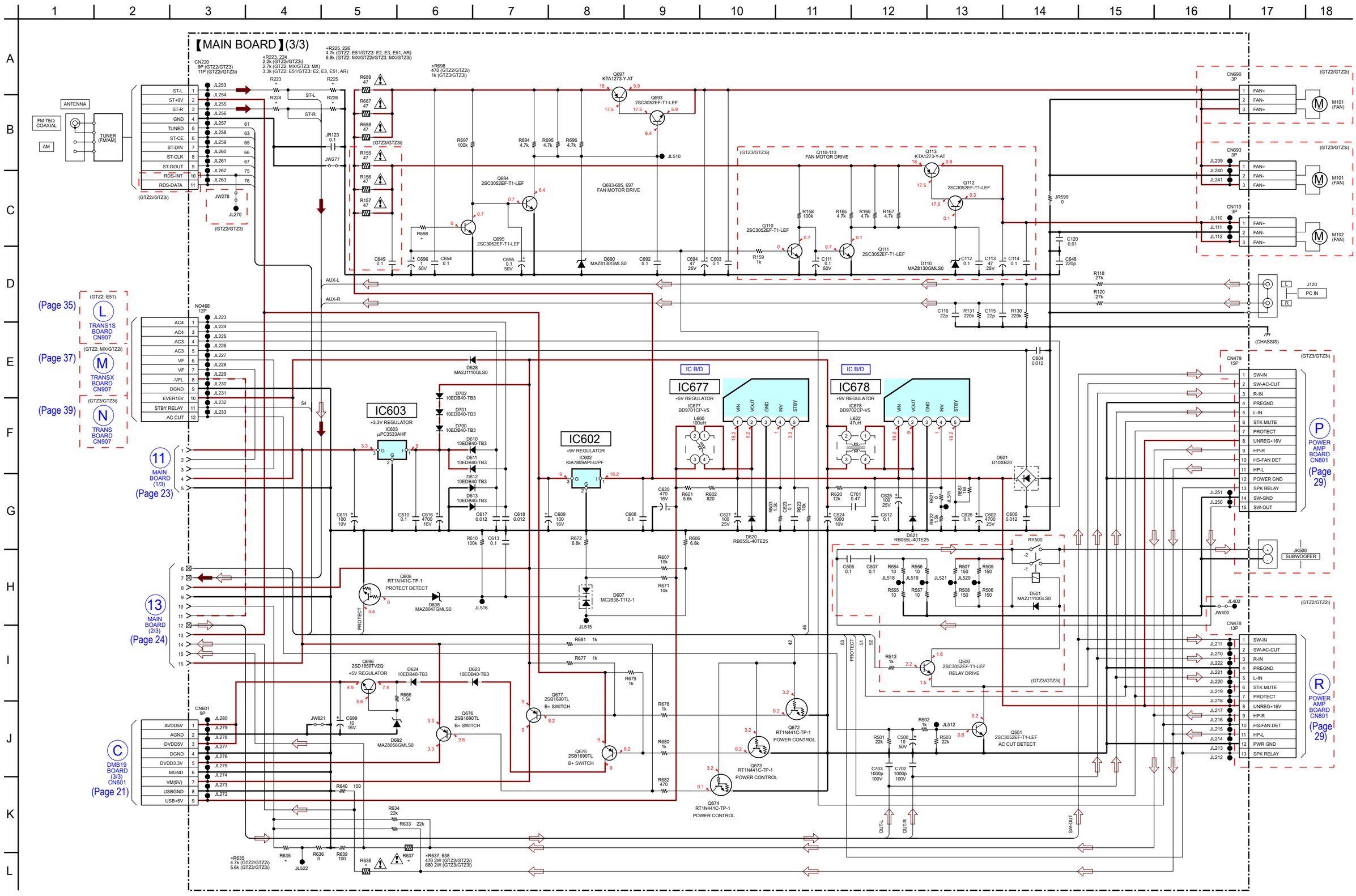
5-10. SCHEMATIC DIAGRAM - MAIN Board (1/3) - • See page 40 for Waveforms. • See page 43 for IC Pin Function Description.



5-11. SCHEMATIC DIAGRAM - MAIN Board (2/3) - • See page 40 for IC Block Diagrams.



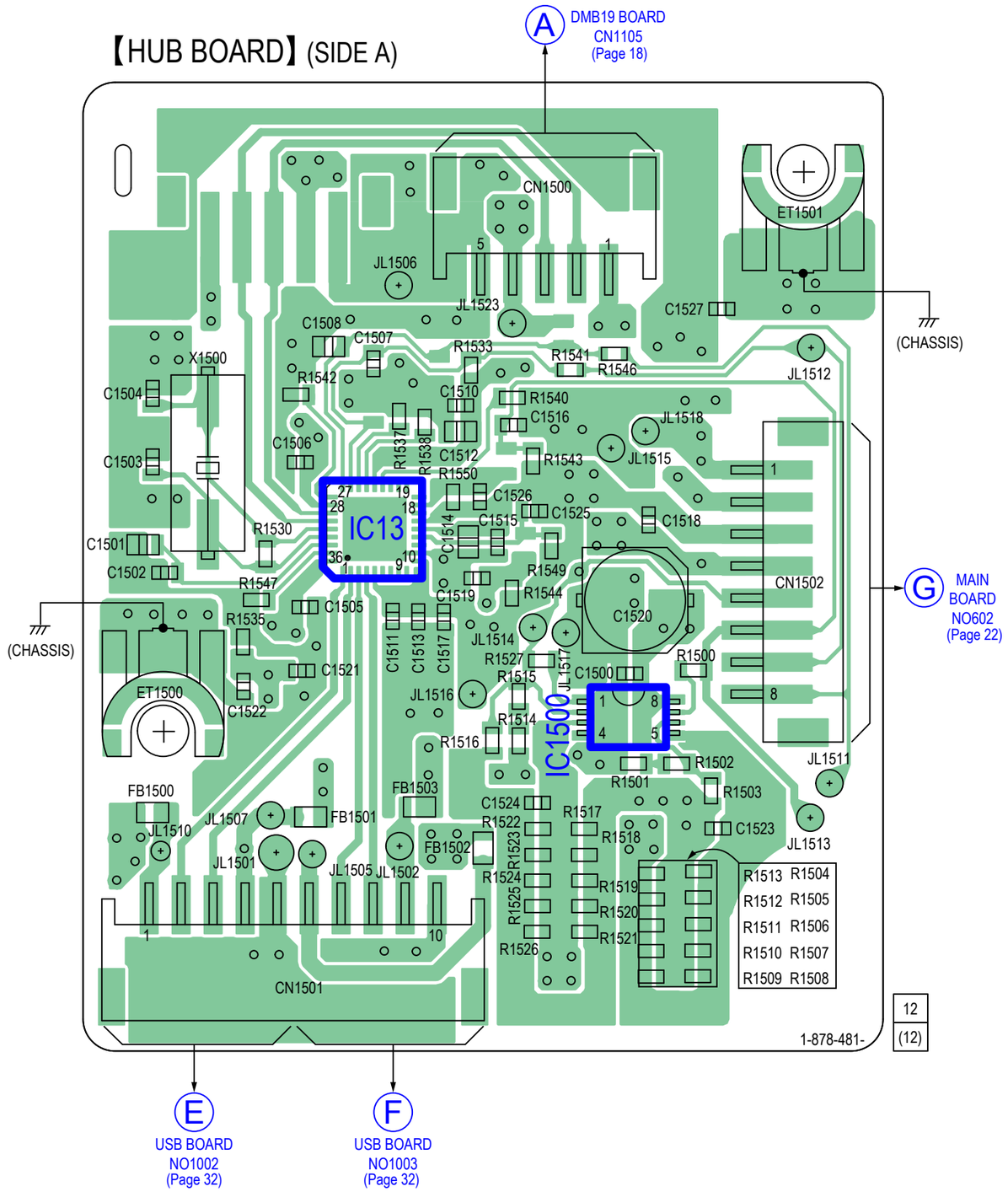
5-12. SCHEMATIC DIAGRAM - MAIN Board (3/3) - • See page 40 for IC Block Diagrams.



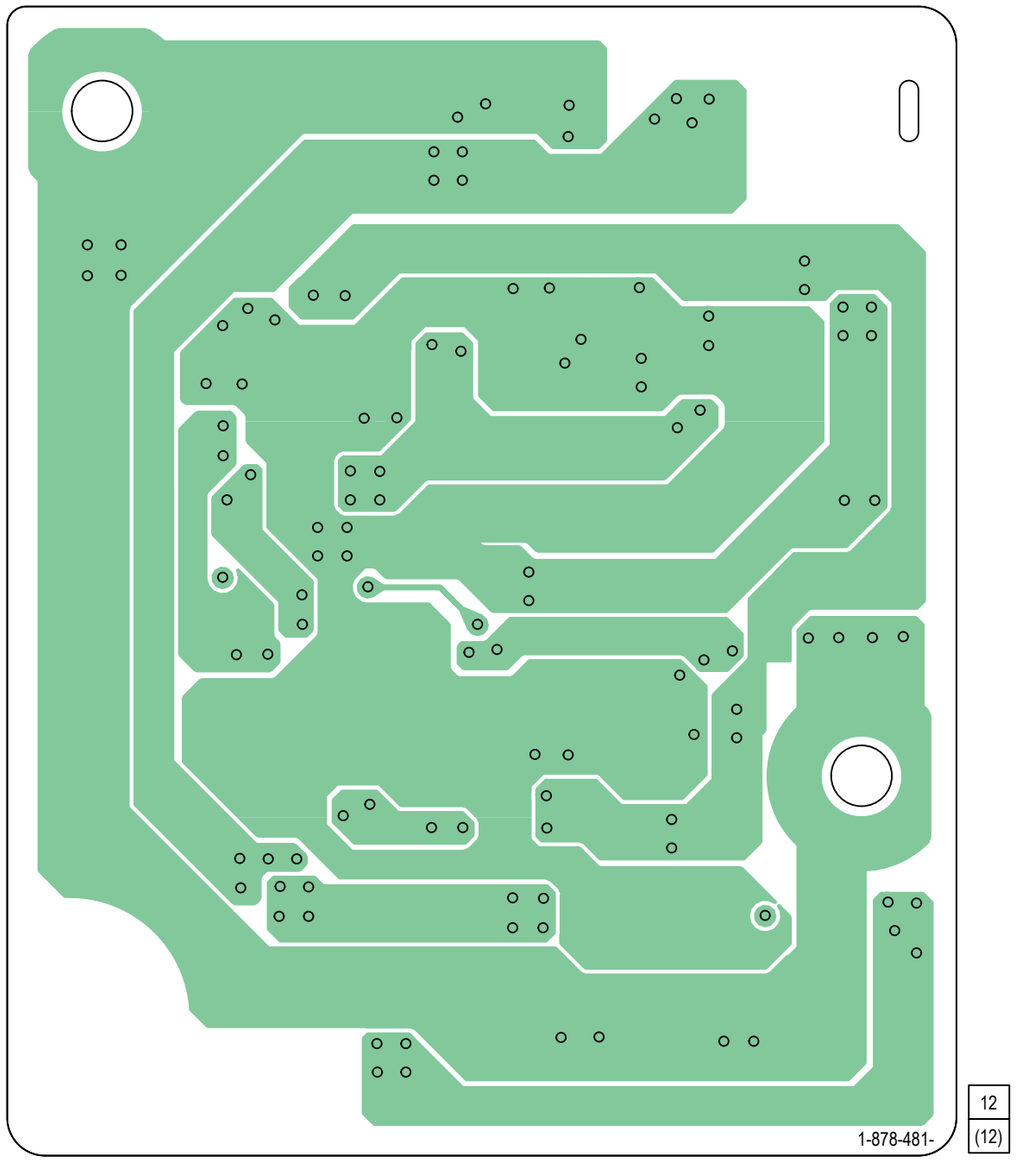
5-13. PRINTED WIRING BOARD - HUB Board -

• See page 17 for Circuit Boards Location. • : Uses unleaded solder.

【HUB BOARD】(SIDE A)

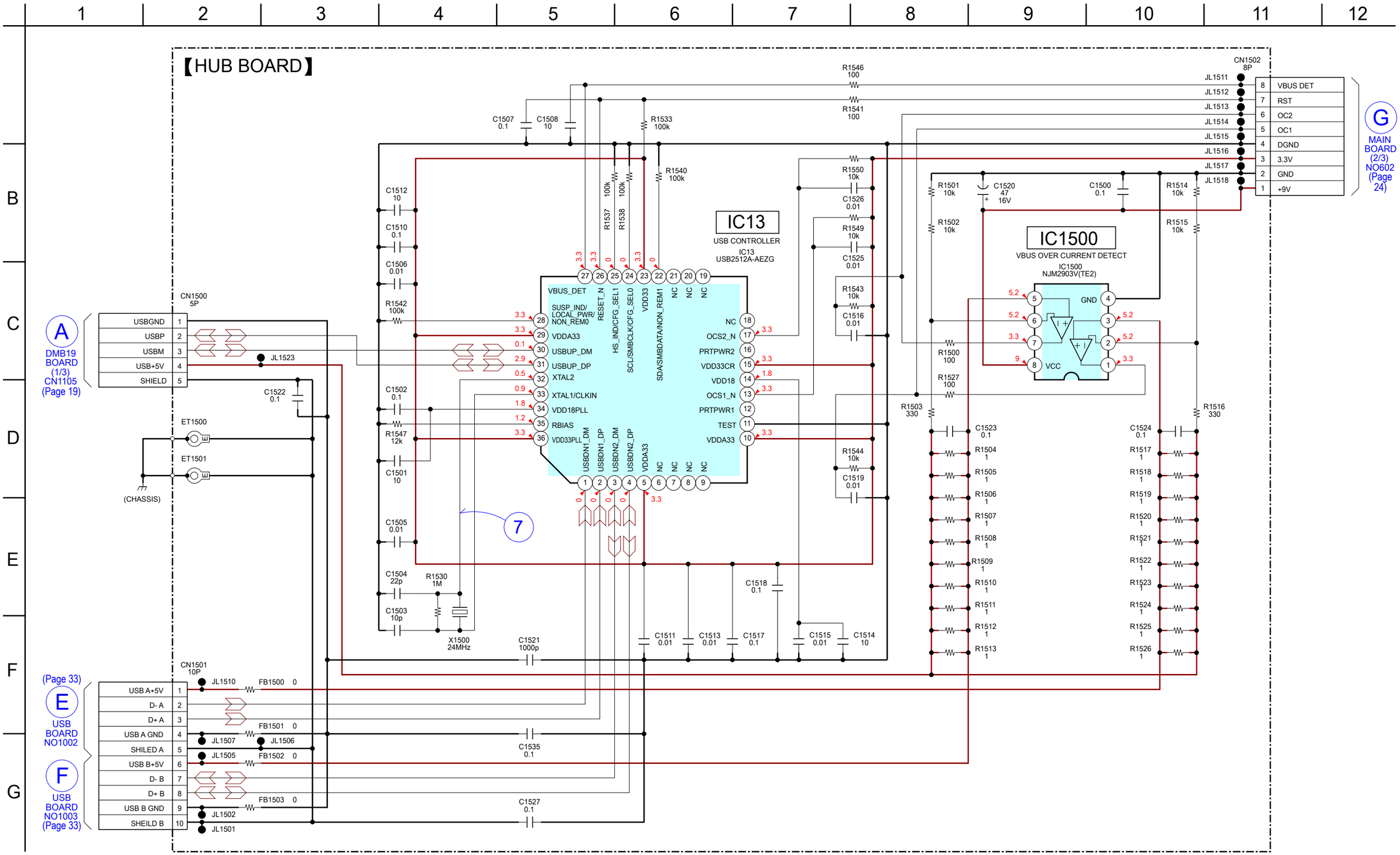


【HUB BOARD】(SIDE B)



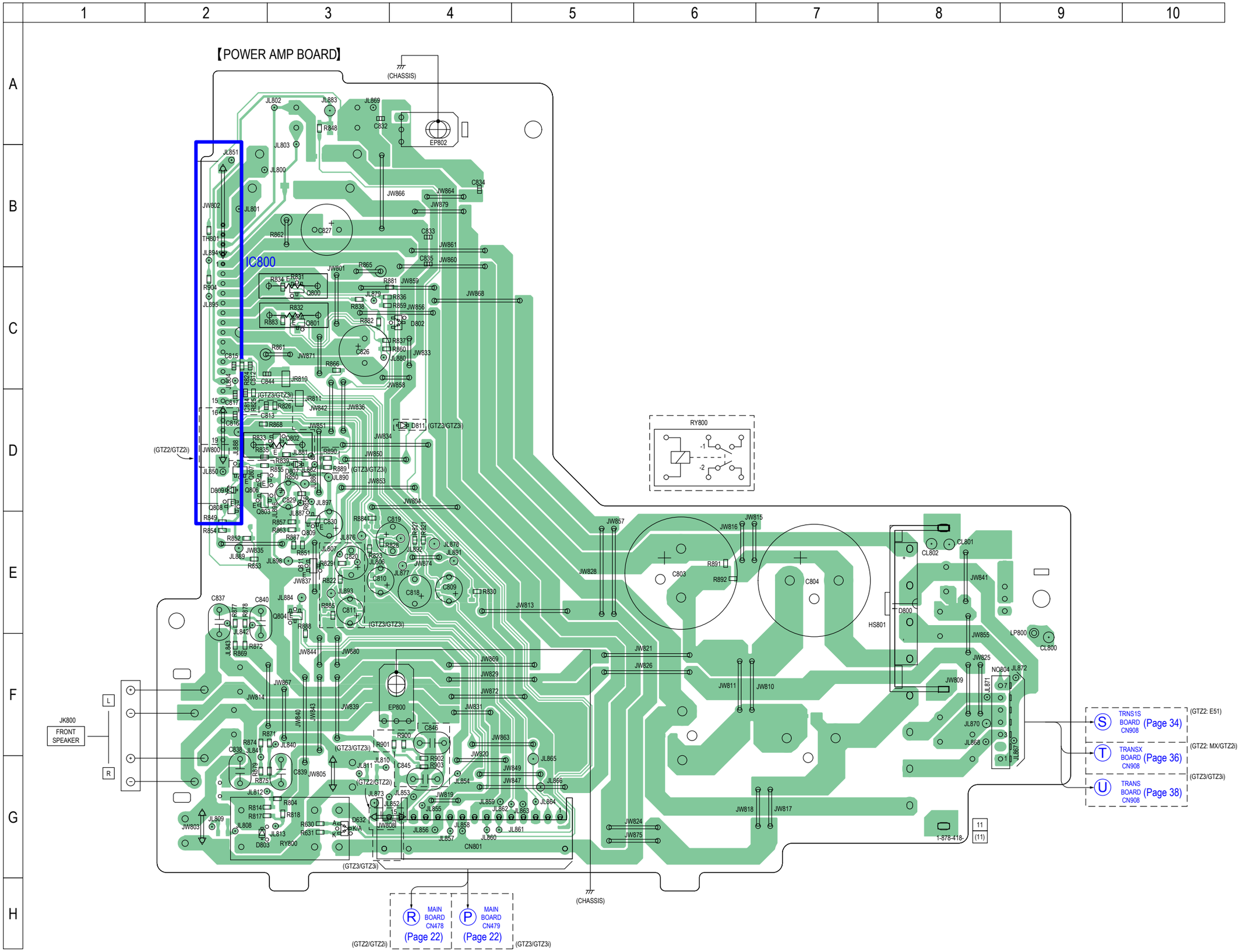
5-14. SCHEMATIC DIAGRAM - HUB Board -

• See page 40 for Waveforms. • See page 43 for IC Pin Function Description.



5-15. PRINTED WIRING BOARD - POWER AMP Board -

• See page 17 for Circuit Boards Location. • : Uses unleaded solder.



5-16. SCHEMATIC DIAGRAM - POWER AMP Board -

【POWER AMP BOARD】

(GTZ3/GTZ3i)
IC800
POWER AMP
IC800
STK433-300-E

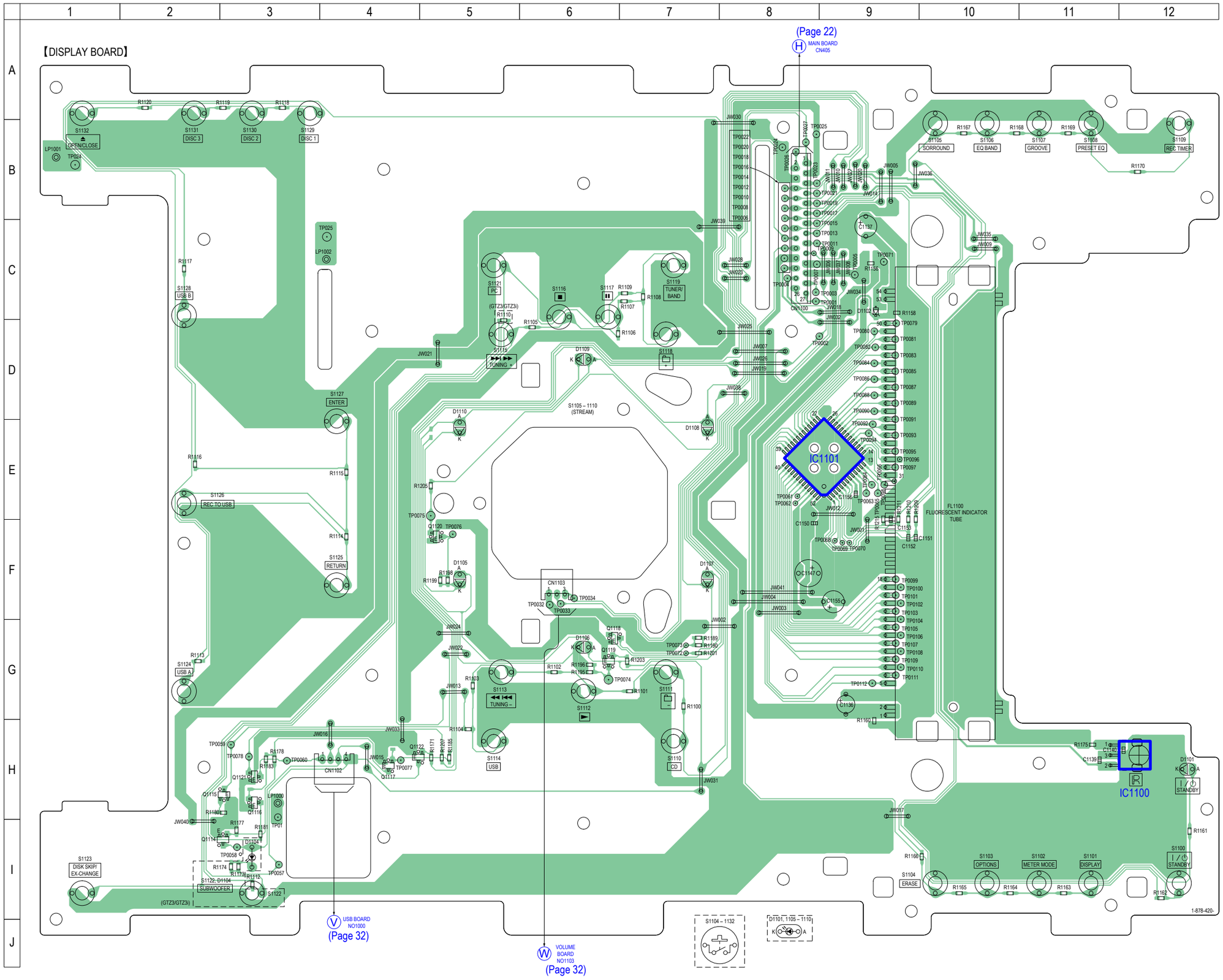
(GTZ2/GTZ2i)
IC800
POWER AMP
IC800
STK433-100-E

-PRE -VH +VH +PRE SUB GND STBY

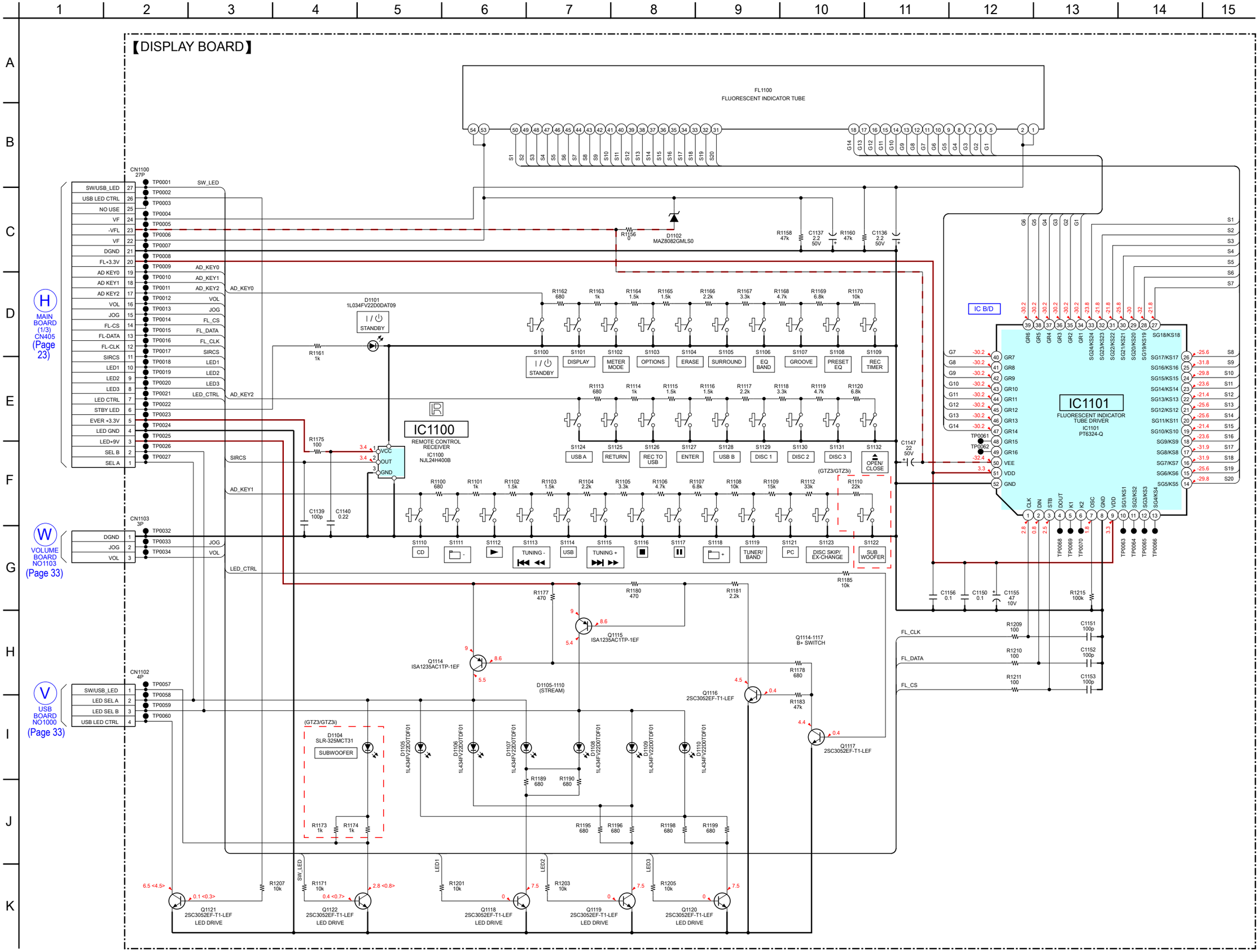
R833 0.22 5W
R862 100
R865 100
R832 0.22 5W
R883 1k
R837 22k
R860 13k
R834 1k
R831 0.22 5W
R836 22k
R859 33k
D802 MC2836
JL851
JW802
JL879
Q800 2SC5625 OVER LOAD DETECT
JL878 JL877 JL883 JL884 JL876 JL906 JL907 JL868
(GTZ2/GTZ2i) JW800 JL850
C815 100p
C817 100p
C816 100p
(GTZ3/GTZ3i)
R838 100k
R882 100k
R884 47k
Q801 2SC5625 OVER LOAD DETECT
R885 56k
Q802 2SC5625 OVER LOAD DETECT
R839 100k
JL880
JL881
R830 47k
(GTZ3/GTZ3i) JL882
R835 2.2k
R889 33k
R890 22k
R868 33k
R866 39k
R881 47k
C845 0.1
C846 0.1
D811 MA2J1110GLS0
R900 10
R901 10
R902 10
R903 10
D807 MA2J1110GLS0
R855 100k
Q806-809, 811 PROTECT DETECT
R887 2.2k
R851 10k
C830 2.2 50V
R904
R852 470
R854 47k
R849 33k
Q807 2SC3052EF-T1-LEF
Q809 ISA1235AC1TP-1EF
D809 MAZ8091GML50
JL889
Q808 2SC3052EF-T1-LEF
TH801 0
JL890
R856 47k
R850 4.7k
JL887
Q806 2SC3052EF-T1-LEF
Q811 2SC3052EF-T1-LEF
R863 1k
R857 22k
JL886
Q803 2SC3052EF-T1-LEF
Q803 OVER LOAD DETECT
C829 100 10V
C835 0.001
C844 1000p
C834 0.001
C832 0.001
C827
C826
+C826, 827
22 100V (GTZ3/GTZ3i)
47 100V (GTZ2/GTZ2i)
+R827, 828
910 (GTZ3/GTZ3i)
1.2k (GTZ2/GTZ2i)
JL891 JL892 JL893
R861 1
R827
R828
R823 1.5k
R848 3.3k
C810 10 50V
R821 1.5k
C809 10 50V
C812 1000p
R824 47k
C818 47 50V
R825 47k
C819 47 50V
C814 1000p
R829 470
R822 1k
C813 1000p
C820 47 50V
R826 47k
C811 10 50V
(GTZ3/GTZ3i)
ET802
(CHASSIS)
D800 D10XB20
C803 2200 63V
R891 100k
R892 100k
C804 2200 63V
RY800
-2
-1
D803 MA2J1110GLS0
R814 150
R817 150
R630 4.7k
R631 4.7k
R804 150
R818 150
Q804 2SC3052EF-T1-LEF RELAY DRIVE
JL884
R888 1k
D632 MC2838-T112-1
R874 10
R871 10
R879 10
R875 10
C839 0.1
C838 0.1
C837 0.1
C840 0.1
R877 10
R878 10
R869 10
R872 10
JW803
JW805
EP800
(CHASSIS)
JK800
FRONT SPEAKER
R
L
NO804 7P
JL867 1 AC-VH
JL868 2 NC
JL869 3 AC-VL
JL870 4 GND
JL871 5 GND
JL872 6 AC-VL
7 AC-VH
(GTZ2: E51) S TRANS1S BOARD CN908 (Page 35)
(GTZ2: MX/GTZ2i) T TRANSX BOARD CN908 (Page 37)
(GTZ3/GTZ3i) U TRANS BOARD CN908 (Page 39)
CN801 13P (GTZ2/GTZ2i) 15P (GTZ3/GTZ3i)
(GTZ3/GTZ3i)
JL852 15 SW-OUT
JL853 14 SW-GND
JL854 13 SPK RELAY
JL855 12 POWER GND
JL856 11 HP-L
JL857 10 HS-FAN DET
JL858 9 HP-R
JL859 8 UNREG+16V
JL860 7 PROTECT
JL861 6 STK MUTE
JL862 5 L-IN
JL863 4 PREGND
JL864 3 R-IN
JL865 2 SW-AC-CUT
JL866 1 SW-IN
(GTZ3/GTZ3i) P MAIN BOARD (3/3) CN479 (Page 25)
(GTZ2/GTZ2i) R MAIN BOARD (3/3) CN478 (Page 25)
C833 0.001
JW808 JL873
(GTZ2/GTZ2i)

5-17. PRINTED WIRING BOARD - DISPLAY Board -

• See page 17 for Circuit Boards Location. • : Uses unleaded solder.

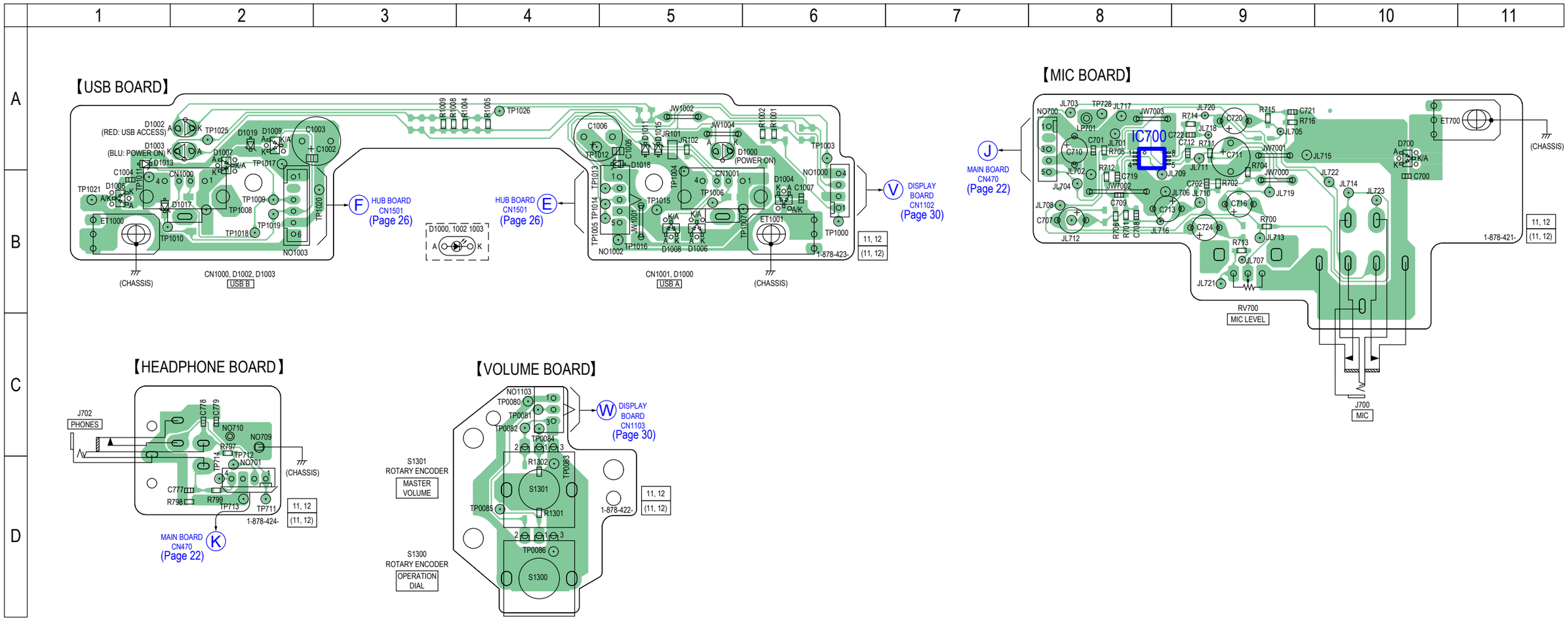


5-18. SCHEMATIC DIAGRAM - DISPLAY Board - • See page 40 for IC Block Diagrams.

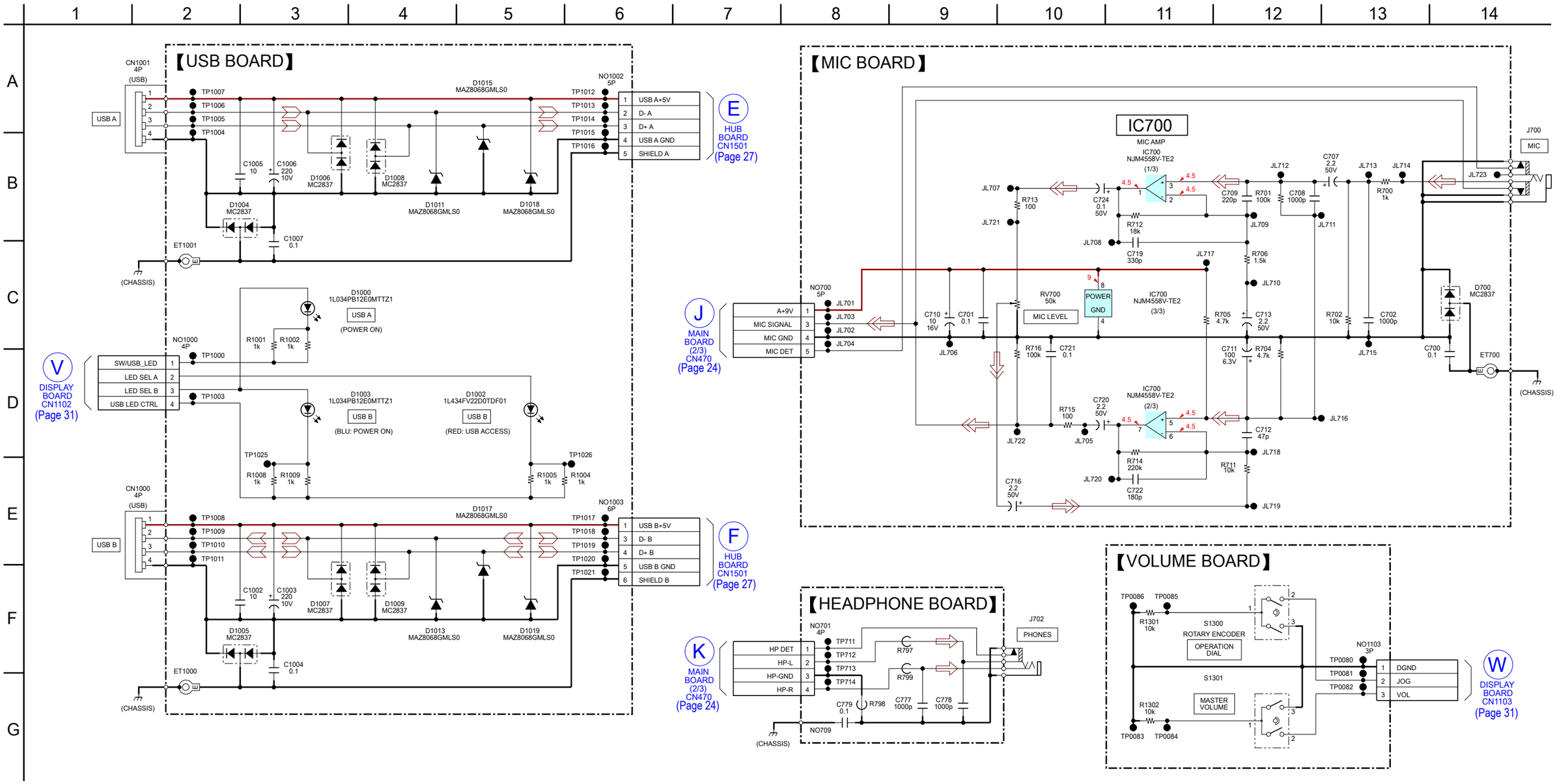


5-19. PRINTED WIRING BOARDS - PANEL Section -

• See page 17 for Circuit Boards Location. • : Uses unleaded solder.

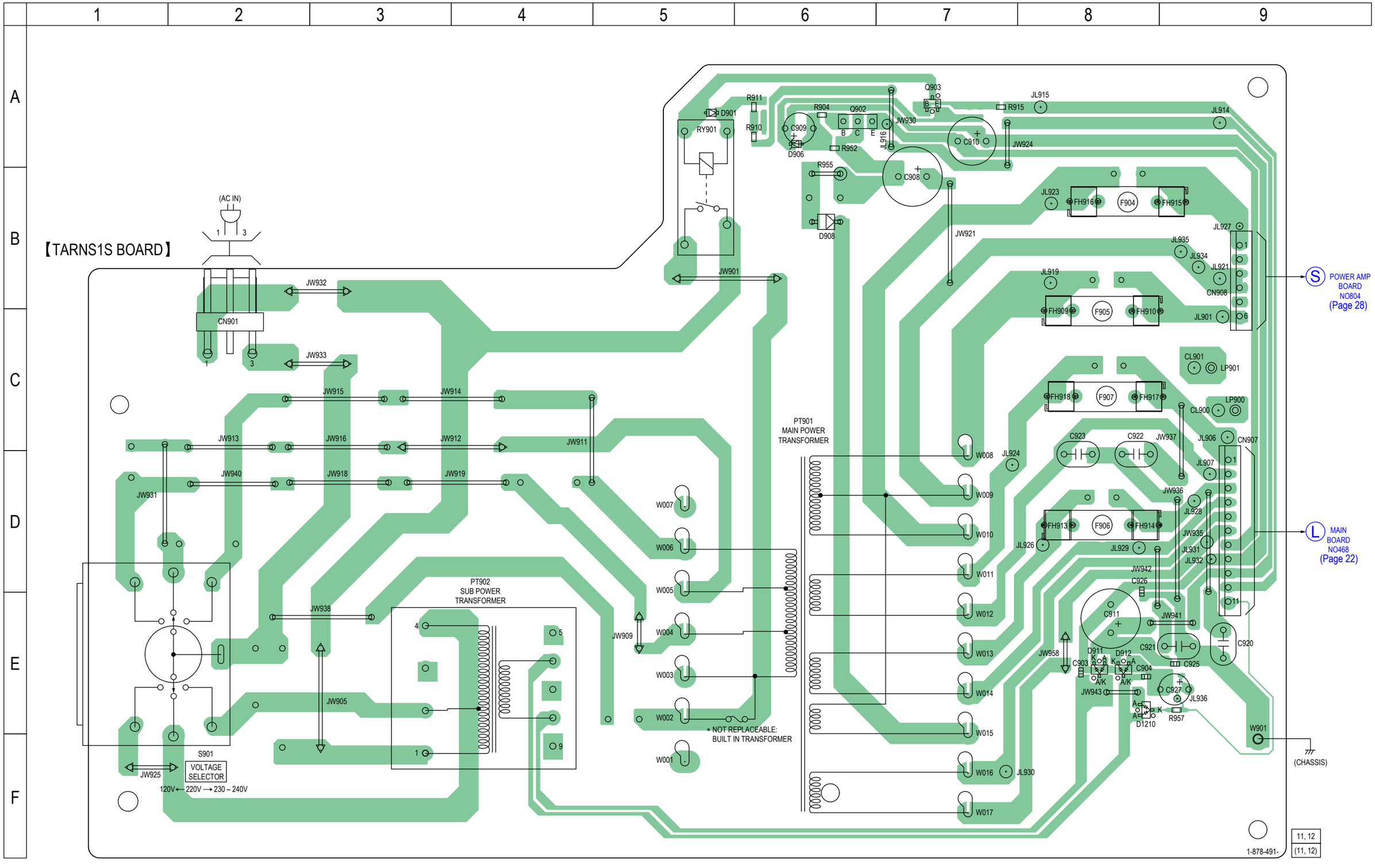


5-20. SCHEMATIC DIAGRAM - PANEL Section -

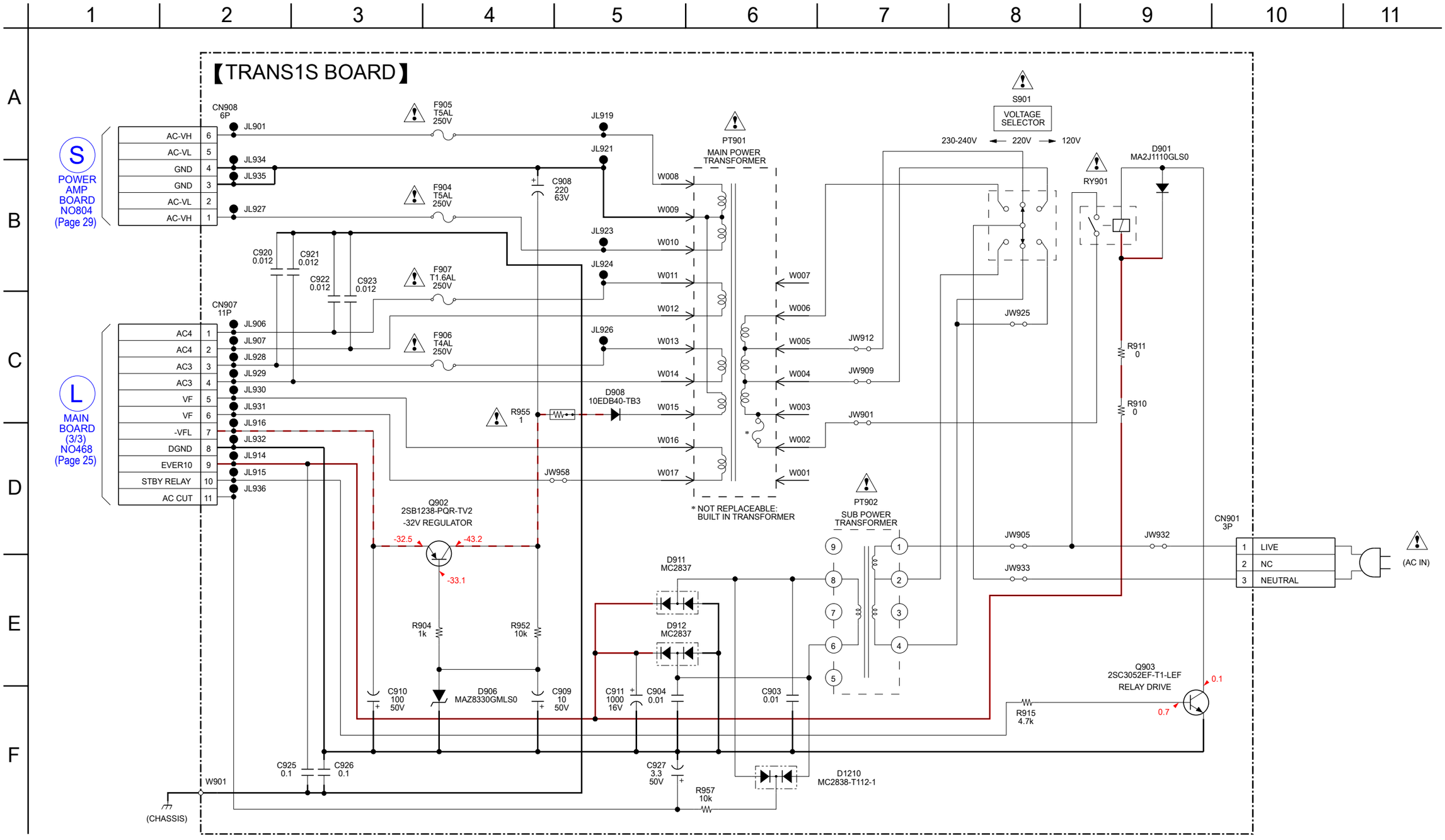


5-21. PRINTED WIRING BOARD - TRANS1S Board (GTZ2: Chilean and Peruvian models) -

• See page 17 for Circuit Boards Location. • : Uses unleaded solder.

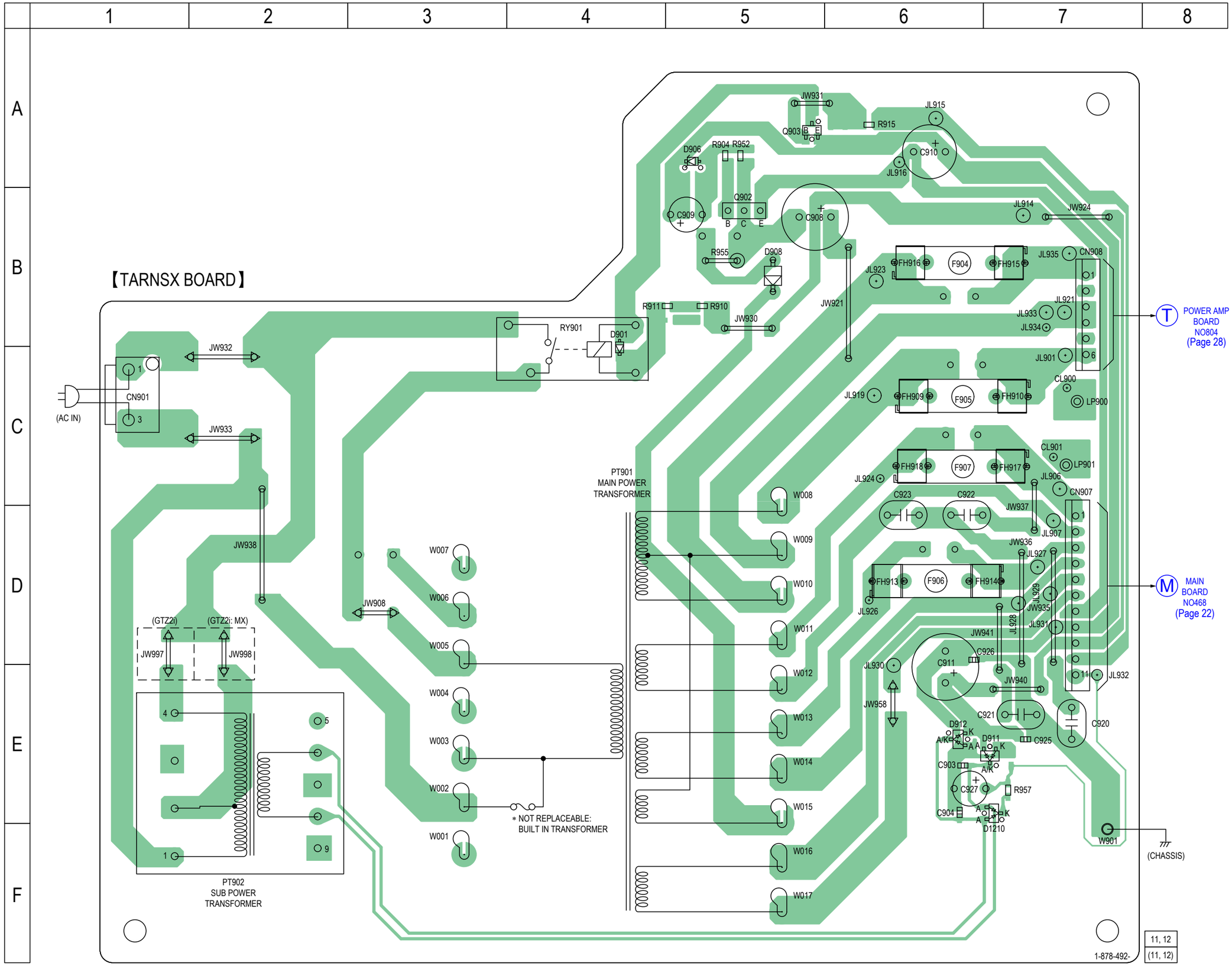


5-22. SCHEMATIC DIAGRAM - TRANS1S Board (GTZ2: Chilean and Peruvian models) -

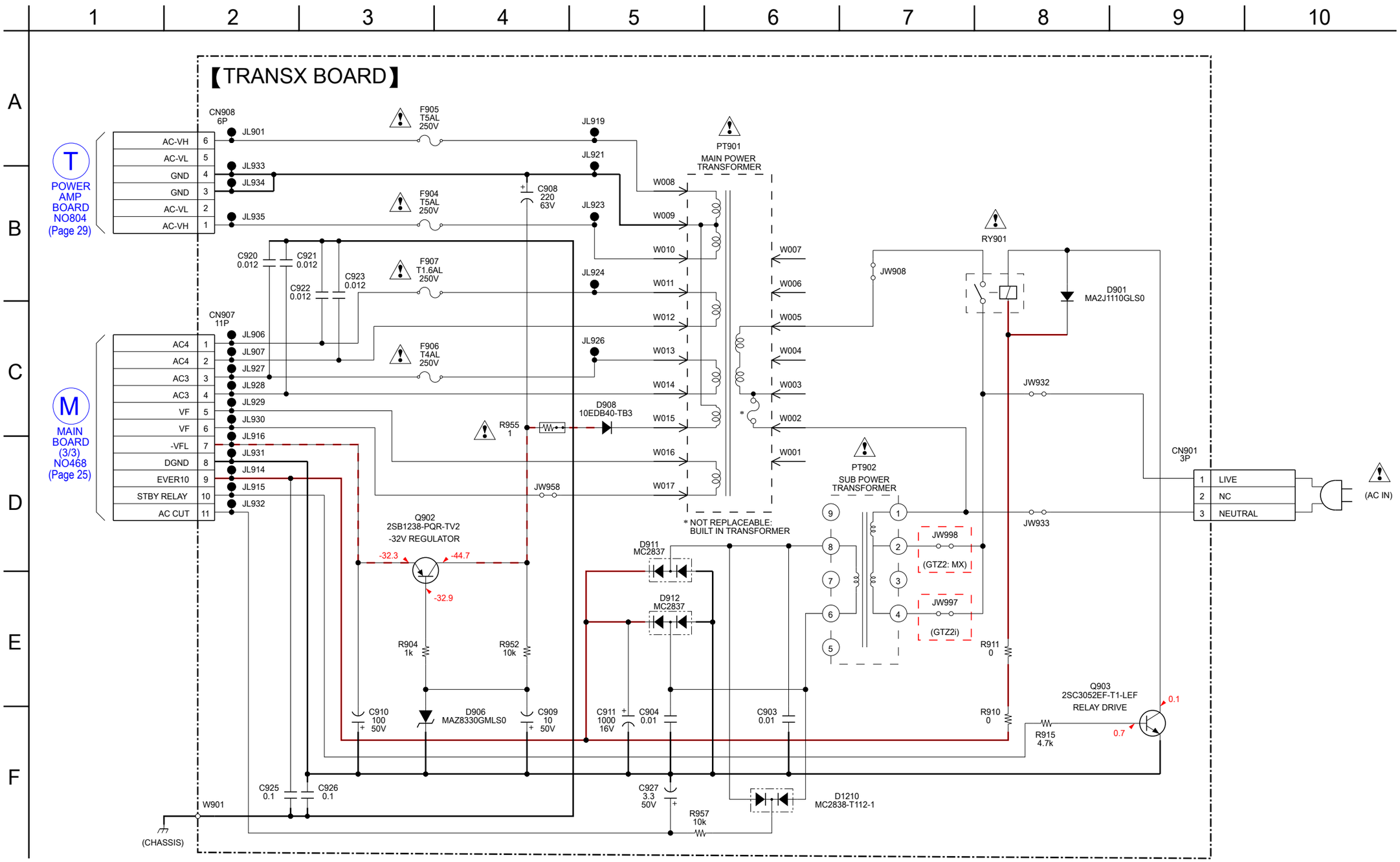


5-23. PRINTED WIRING BOARD - TRANSX Board (GTZ2: Mexican model/GTZ2i) -

• See page 17 for Circuit Boards Location. • : Uses unleaded solder.

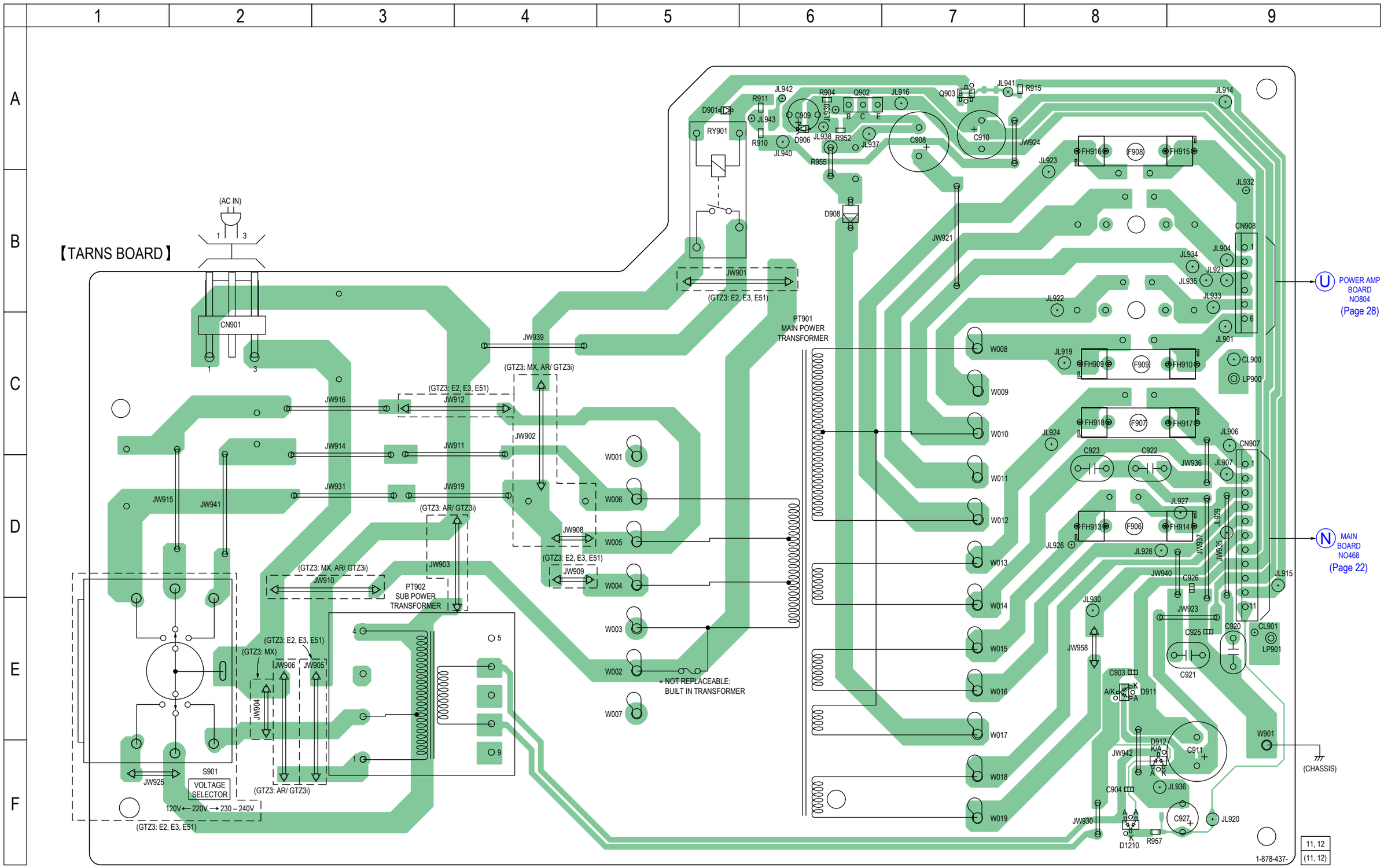


5-24. SCHEMATIC DIAGRAM - TRANSX Board (GTZ2: Mexican model/GTZ2i) -

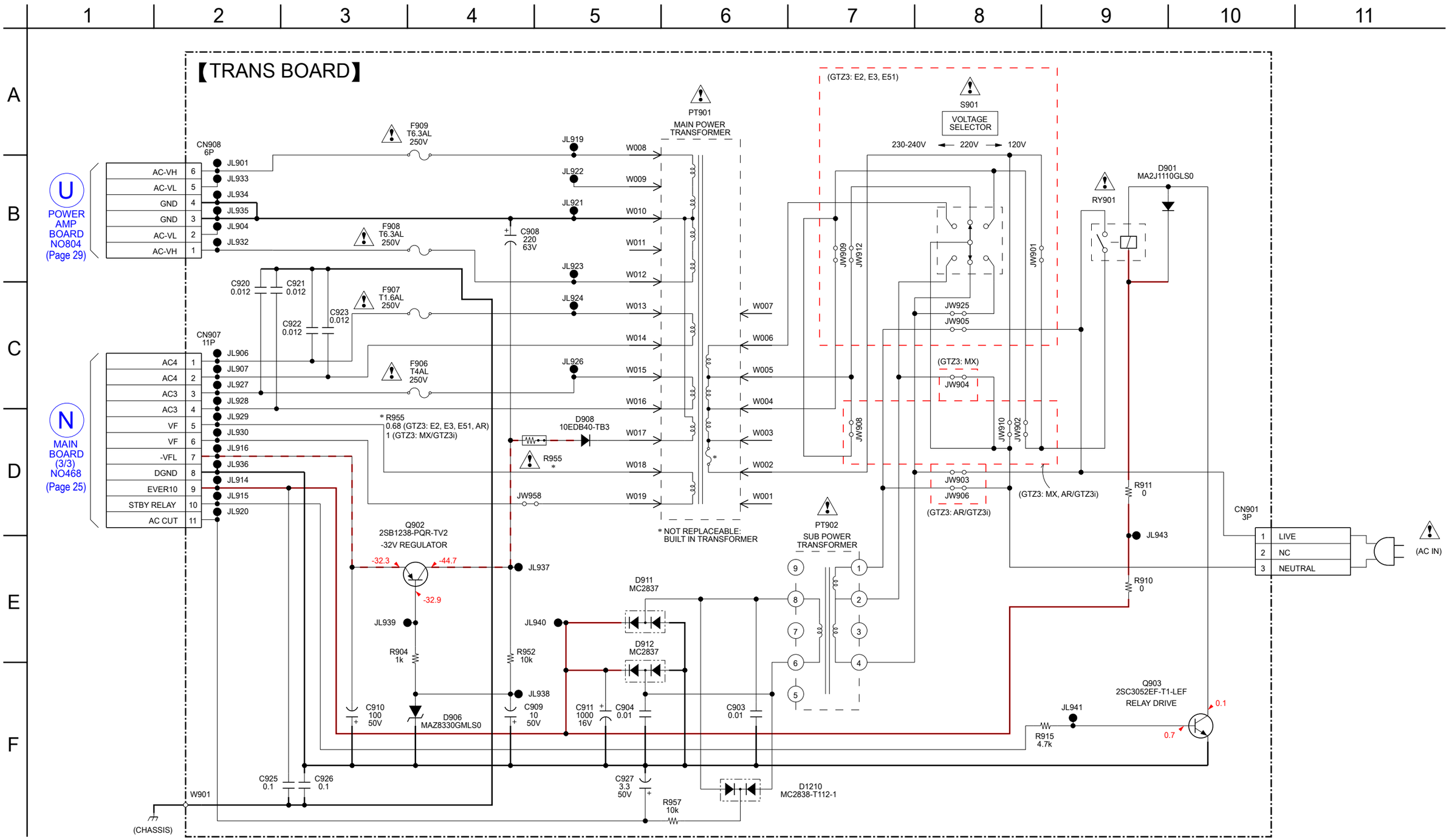


5-25. PRINTED WIRING BOARD - TRANS Board (GTZ3/GTZ3i) -

• See page 17 for Circuit Boards Location. • : Uses unleaded solder.



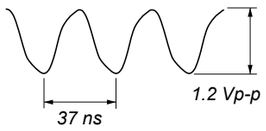
5-26. SCHEMATIC DIAGRAM - TRANS Board (GTZ3/GTZ3i) -



• Waveforms

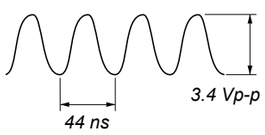
– DMB19 Board –

① IC101 ⑩ (XTALO)



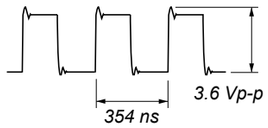
1 V/DIV, 20 ns/DIV

② IC101 ⑭ (GPIO)



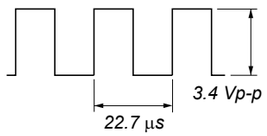
2 V/DIV, 20 ns/DIV

③ IC101 ⑯ (GPIO)



2 V/DIV, 200 ns/DIV

④ IC101 ⑲ (GPIO)



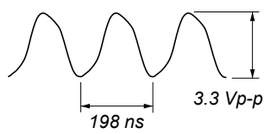
2 V/DIV, 10 µs/DIV

– MAIN Board –

⑤ IC401 ⑪ (XC-OUT)

2 V/DIV, 20 µs/DIV

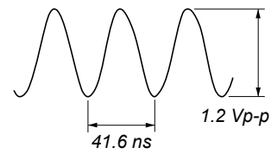
⑥ IC401 ⑬ (X-OUT)



2 V/DIV, 100 ns/DIV

– HUB Board –

⑦ IC13 ㉜ (XTAL2)

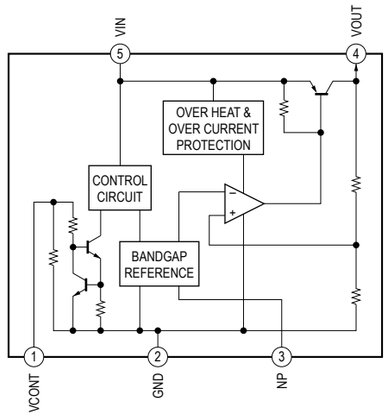


500 mV/DIV, 20 ns/DIV

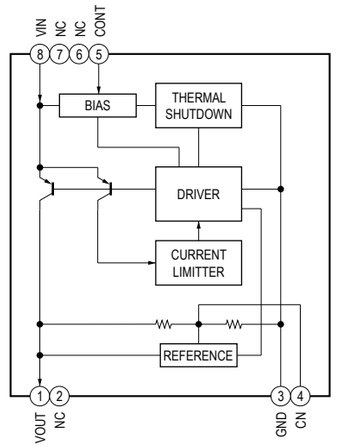
• IC Block Diagrams

– DMB19 Board –

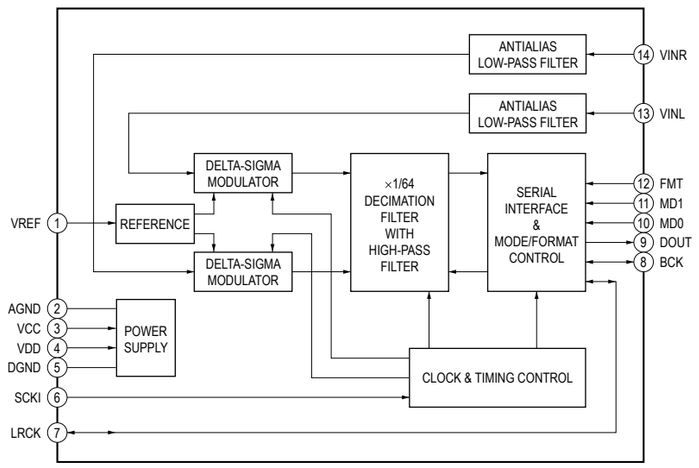
IC107 TK11133CSCL-G



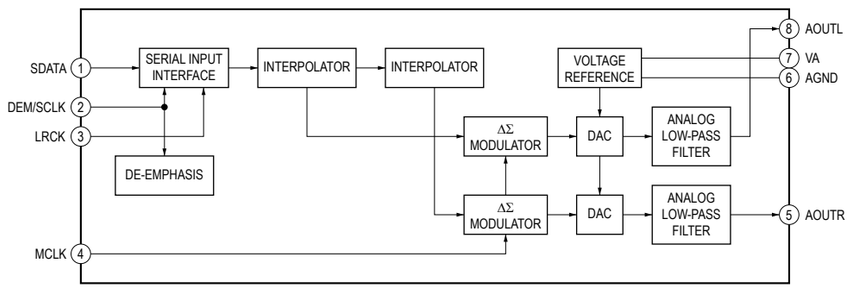
IC111 MM1661JHBE



IC4601 PCM1808PWR

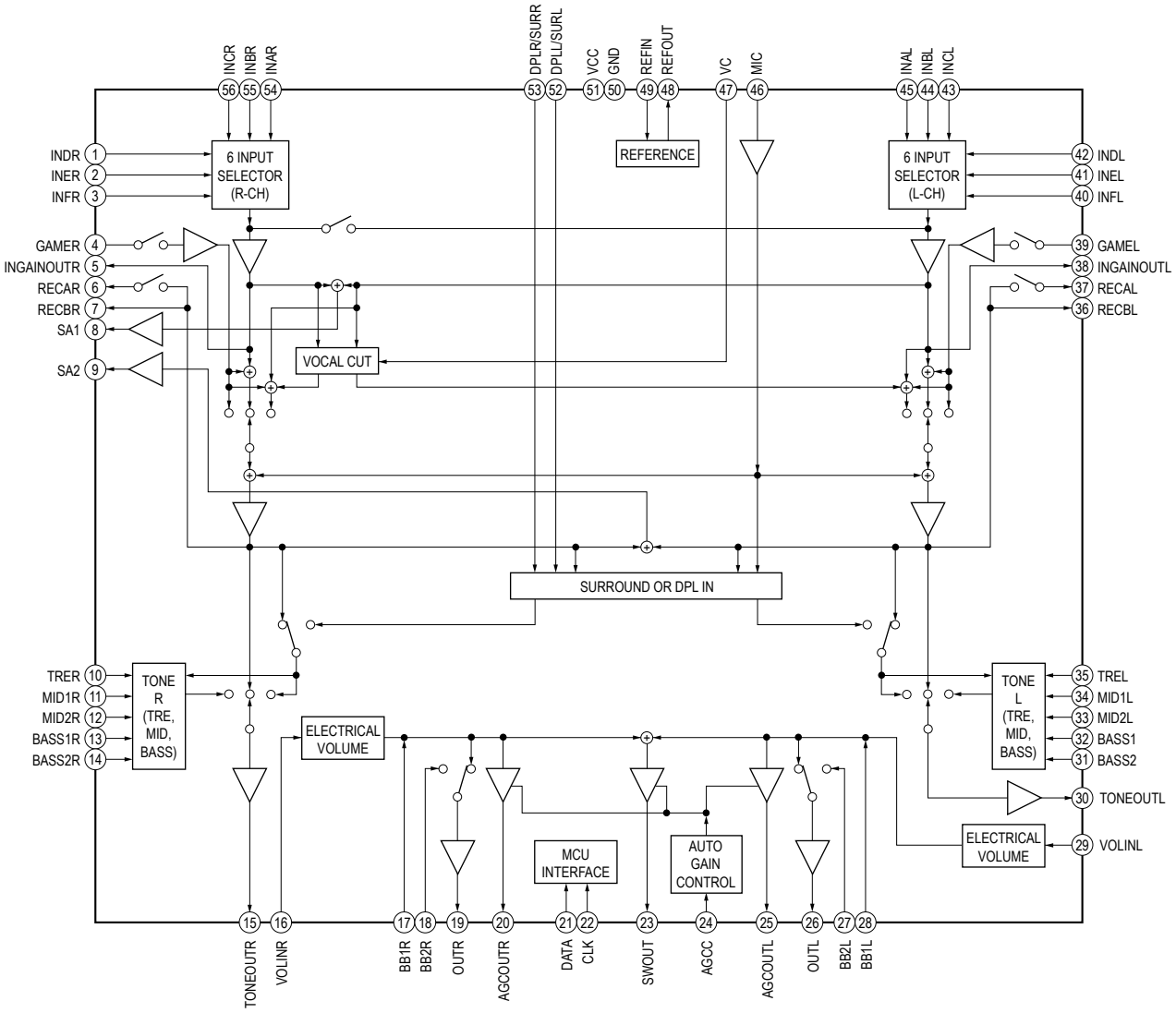


IC4602 CS4335-KSZR



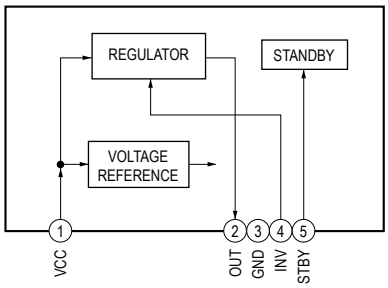
– MAIN Board –

IC407 R2A15216FP



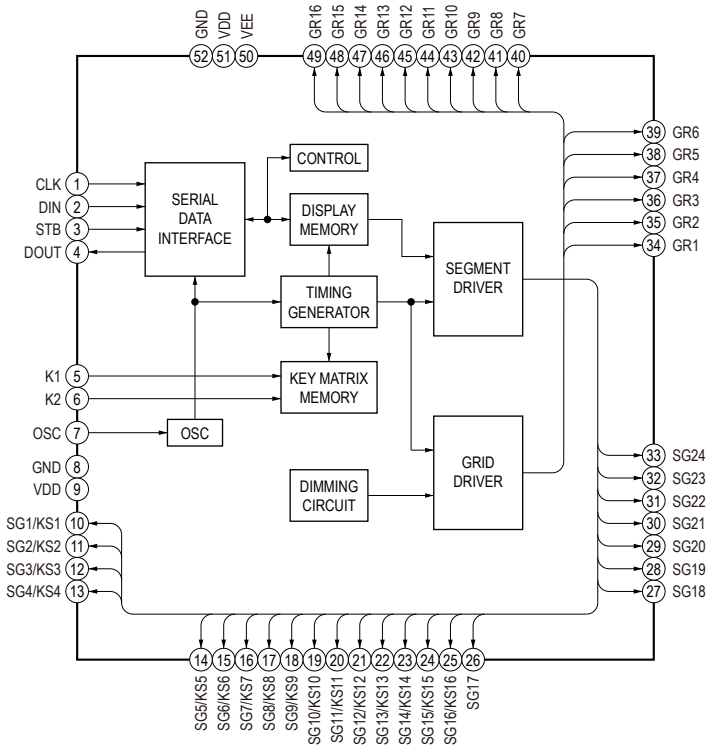
IC677 BD9701CP-V5

IC678 BD9702CP-V5



– DISPLAY Board –

IC1101 PT6324-Q



• **IC Pin Function Description**

DMB19 BOARD IC101 CXD9968R (RF AMP, SERVO DSP, AUDIO PROCESSOR)

Pin No.	Pin Name	I/O	Description
1	RF_A	I	RF main beam (C) input from the optical pick-up block
2	RF_B	I	RF main beam (B) input from the optical pick-up block
3	RF_C	I	RF main beam (A) input from the optical pick-up block
4	RF_D	I	RF main beam (D) input from the optical pick-up block
5	RF_E	I	RF sub beam (F) input from the optical pick-up block
6	RF_F	I	RF sub beam (E) input from the optical pick-up block
7	AVDD18_2	-	Power supply terminal (+1.8V)
8	AVDD33_1	-	Power supply terminal (+3.3V)
9	XTALI	I	System clock input terminal (27 MHz)
10	XTALO	O	System clock output terminal (27 MHz)
11	AGND33	-	Ground terminal
12	V2O	O	Reference voltage (+2V) output to the optical pick-up block
13	V14/VREFO	O	Reference voltage (+1.4V) output terminal
14	REXT	I	Current reference input terminal Fixed at “L” in this set
15, 16	MDI1, MDI2	I	Laser power monitor input from the optical pick-up block
17, 18	LDO1, LDO2	O	Laser diode drive signal output to the optical pick-up block
19	AVDD33_2	-	Power supply terminal (+3.3V)
20	DMO	O	Spindle motor control signal output to the motor driver
21	FMO	O	Sled motor control signal output to the motor driver
22	MUTE4	O	Muting signal output to the coil/motor driver (for spindle motor)
23	MSW	O	CD/DVD selection signal output terminal “L”: CD, “H”: DVD
24	TRO	O	Tracking coil control signal output to the coil driver
25	FOO	O	Focus coil control signal output to the coil driver
26	EEWP	-	Not used
27, 28	USB_DP, USB_DM	I/O	Two-way audio serial data with the USB controller
29	VDD33_USB	-	Power supply terminal (+3.3V)
30	VSS33_USB	-	Ground terminal
31	PAD_VRT	I/O	USB generating reference current terminal
32	VDD18_USB	-	Power supply terminal (+1.8V)
33	SCL	O	Serial clock signal output to the EEPROM (GTZ2i/GTZ3i)
34	SDA	I/O	Two-way serial data with the EEPROM (GTZ2i/GTZ3i)
35	IFSDI	I	Serial data input from the system controller
36	FS_CS#	O	Chip select signal output to the flash ROM
37	SF_DO	O	Serial data output to the flash ROM
38	SF_DI	I	Serial data input from the flash ROM
39	SF_CK	O	Serial clock signal output to the flash ROM
40	IFSCK	O	Serial data transfer clock signal output to the system controller
41	IFSOD	O	Serial data output to the system controller
42	ICE	I	ICE mode enable setting terminal Not used
43	PRST#	I	Reset signal input from the system controller “L”: reset
44	IR	I	IR control signal input terminal Not used
45 to 49	RD0 to RD4	I/O	Two-way data bus with the SD-RAM
50	DVDD33	-	Power supply terminal (+3.3V)
51 to 53	RD5 to RD7	I/O	Two-way data bus with the SD-RAM
54	DVDD18	-	Power supply terminal (+1.8V)
55	DQM0	O	Data mask signal output to the SD-RAM
56 to 59	RD15 to RD 12	I/O	Two-way data bus with the SD-RAM
60	DVSS33	-	Ground terminal
61 to 64	RD11 to RD8	I/O	Two-way data bus with the SD-RAM
65	DQM1	O	Data mask signal output to the SD-RAM
66	RCLK	O	Clock signal output to the SD-RAM
67	RA11	O	Address signal output to the SD-RAM
68	DVDD33	-	Power supply terminal (+3.3V)
69 to 74	RA9 to RA4	O	Address signal output to the SD-RAM
75	RWE#	O	Write enable signal output to the SD-RAM
76	CAS#	O	Column address strobe signal output to the SD-RAM
77	RAS#	O	Row address strobe signal output to the SD-RAM

Pin No.	Pin Name	I/O	Description
78	BA0	O	Bank address signal output to the SD-RAM
79	DVSS18	-	Ground terminal
80	BA1	O	Bank address signal output to the SD-RAM
81 to 83	RA10, RA0, RA1	O	Address signal output to the SD-RAM
84	DVDD33	-	Power supply terminal (+3.3V)
85, 86	RA2, RA3	O	Address signal output to the SD-RAM
87	IFBSY	I	Communication initialization request signal input from the system controller
88	IFCS#	O	Communication initialization request acknowledge signal output to the system controller
89	RX	-	Not used
90	DVDD18	-	Power supply terminal (+1.8V)
91	TX	-	Not used
92	XMAMUTE	-	Not used
93	SPDIF	O	SPDIF signal output terminal Not used
94	GPIO	I	Thermal shut down signal input from the coil/motor driver
95	DACVDDC	-	Power supply terminal (+3.3V)
96	VREF	I	Band gap reference voltage terminal
97	FS	I	Full scale adjustment terminal
98	DACVSSC	-	Ground terminal
99	CVBS	O	Composite video signal output terminal Not used
100, 101	DACVDDB, DACVDDA	-	Power supply terminal (+3.3V)
102	SY/Y/G	O	Component video (Y) signal output terminal Not used
103	SC/CB/B	O	Component video (Pb/Cb) signal output terminal Not used
104	CR/R	O	Component video (Pr/Cr) signal output terminal Not used
105	AADVSS	-	Ground terminal
106	GPIO19	I	Audio data input from the A/D converter (for USB)
107	MUTE123	-	Not used
108	LIMITSW	-	Not used
109, 110	AADVDD, APLLVDD	-	Power supply terminal (+3.3V)
111	APLLCAP	I	External capacitor connecting terminal
112, 113	ADACVSS2, ADACVSS1	-	Ground terminal
114	GPIO	O	Master clock signal output to the A/D converter and D/A converter
115	GPIO	O	Bit clock signal output to the A/D converter and D/A converter
116	GPIO	O	Muting signal output to the coil/motor driver (for focus/tracking coil and sled motor)
117	AVCM	-	Audio D/A converter reference voltage terminal
118	GPIO	I	Limit detection switch input terminal
119	GPIO	O	L/R sampling clock signal output to the A/D converter and D/A converter
120	GPIO	O	Audio data output to the D/A converter
121, 122	ADACVDD1, ADACVDD2	-	Power supply terminal (+3.3V)
123	AVDD18_1	-	Power supply terminal (+1.8V)
124	AGND18	-	Ground terminal
125, 126	RF_IP, OPOUT	I	AC coupled RF signal input from the optical pick-up block
127	IOPMON/OPINP	I	Power monitor terminal
128	SPFG/OPINN	I	Spindle motor hall sensor input from the motor driver

MAIN BOARD IC401 R5F3640DDFA (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1, 2	METER-IN3, METER-IN4	O	Meter motor drive signal output terminal Not used
3	SW/USB CTRL	O	LED drive signal output terminal for USB A indicator "H": LED on (GTZ2/GTZ2i) LED drive signal output terminal for USB A and SUBWOOFER indicator "H": LED on (GTZ3/GTZ3i)
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	-	Ground terminal
9	CNVss	-	Ground terminal
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 Fixed at "H" in this set
18	M1-	O	Tray/drawer transportation motor drive signal output terminal
19	MTK-BUSY	O	Communication initialization request signal output to the servo DSP
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 input 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 input 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	METER BL CTL	O	Meter backlight LED drive signal output terminal Not used
32, 33	NO-USE	-	Not used
34	MTK-XIFCS	I	Communication initialization request acknowledge signal input from the servo DSP
35	MTK-TX	O	Serial data output to the servo DSP
36	MTK-RX	I	Serial data input from the servo DSP
37	MTK-CLOCK	I	Serial data transfer clock signal input from the servo DSP
38	NO-USE	-	Not used
39	METER LED CTRL	O	LED drive signal output to the meter display block "H": LED on
40, 41	NO-USE	-	Not used
42	MTK PWR CTL	O	Power supply terminal on/off control signal output terminal "H": power on
43	AD SUPPLY SW	O	Power supply terminal on/off control signal output terminal for the rotary encoder
44	HP DET	I	Headphone connection detection signal input terminal "H": headphone connection
45	MIC DET	I	Microphone connection detection signal input terminal "H": microphone connection
46	MTK-OE	O	Power supply on/off control signal output terminal for USB section "H": power on
47	HUB-RST	O	Reset signal output to the USB controller "L": reset
48	MTK-RST	O	Reset signal output to the servo DSP "L": reset (GTZ2/GTZ3) Reset signal output to the servo DSP and EEPROM "L": reset (GTZ2i/GTZ3i)
49	TC_M+9V	O	Not used
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 to the power amplifier "H": amplifier on
52	SW SPK RELAY	O	Relay drive signal output terminal for the subwoofer "H": relay on (GTZ3/GTZ3i)
53	FR SPK RELAY	O	Relay drive signal output terminal for the front speakers "H": relay on
54	STBY RELAY	O	Relay drive signal output terminal for the main power "H": power on
55	EEP-SDA	I/O	Two-way IIC data bus with the EEPROM
56	EEP-SCL	I/O	Two-way IIC clock bus with the EEPROM
57	VBus-Det	O	VBUS voltage detection signal output to the USB controller
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

Pin No.	Pin Name	I/O	Description
60	R2A15216FP-DATA	O	Serial data output to the electrical volume
61	ST-TUNED	I	Tuning detection signal 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	MTK-OC1	I	USB over current detection signal input terminal
69	LED CTRL	O	Power control selection signal output terminal for the front panel section LED
70	USB-BLUE LED	O	LED drive signal output terminal for the USB B indicator “H”: LED on
71	POWER ILLUMINATOR	I	Spectrum analyzer drive signal input from the electrical volume (A/D input)
72	STBY LED	O	LED drive signal output terminal for the STANDBY indicator “H”: LED on
73	MTK-OC2	I	USB over current detection signal input terminal
74	POWER/ DISPLAY-KEY	I	POWER & DISPLAY keys press detection signal input terminal (Interrupt input)
75	ST-RDS-INT	I	RDS data transfer clock signal input the tuner (FM/AM) (GTZ2i/GTZ3i)
76	ST-RDS-DATA	I	RDS data input from the tuner (FM/AM) (GTZ2i/GTZ3i)
77 to 79	LED-VOL5. 6 to LED-VOL1. 2	O	LED drive signal output terminal for the illumination (stream) indicator “H”: LED on
80	METER LED	O	Not used
81	METER SW	I	Meter position detection signal input terminal (A/D input) Not used
82	MTK POWER MINITOR	I	Power monitor signal input terminal (A/D input)
83	OVERVOLTAGE	I	Over-voltage protection detection signal input terminal “L”: over-voltage detected (GTZ2: Chilean and Peruvian models/GTZ3: 120V AC area in E, 240V AC area in E, Chilean and Peruvian models)
84	METER IN2	O	Meter motor drive signal output terminal Not used
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	Not used
89	VACS IN	I	VACS level detection signal input from the electrical volume (A/D input)
90	OPERATION DIAL	I	Jog dial pulse input from the rotary encoder (for OPERATION DIAL) (A/D input)
91	MASTER VOL	I	Jog dial pulse input from the rotary encoder (for MASTER VOLUME) (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-KEY2, AD-KEY1	I	Key input terminal (A/D input)
96	AVSS	I	Ground terminal (for A/D conversion)
97	AD-KEY0	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 terminal Not used

HUB BOARD IC13 USB2512A-AEZG (USB CONTROLLER)

Pin No.	Pin Name	I/O	Description
1, 2	USBDN1_DM, USBDN1_DP	I	Audio serial data input from the USB A connector
3, 4	USBDN2_DM, USBDN2_DP	I/O	Two-way audio serial data with the USB B connector
5	VDDA33	-	Power supply terminal (+3.3V)
6 to 9	NC	-	Not used
10	VDDA33	-	Power supply terminal (+3.3V)
11	TEST	-	Not used
12	PRTPWR1	O	Not used
13	OCS1_N	I	Over current sense signal input from the USB interface
14	VDD18	-	Power supply terminal (+1.8V)
15	VDD33CR	-	Power supply terminal (+3.3V)
16	PRTPWR2	O	Not used
17	OCS2_N	I	Over current sense signal input terminal
18 to 21	NC	-	Not used
22	SDA/SMBDATA/ NON/REM1	-	Not used
23	VDD33	-	Power supply terminal (+3.3V)
24	SCL/SMBCLK/ CFG_SEL0	-	Not used
25	HS_IND/CFG_SEL1	-	Not used
26	RESET_N	I	Reset signal input from the system controller “L”: reset
27	VBUS_DET	I	VBUS voltage detect signal input from the system controller
28	SUSP_IND/LOCAL_ PWR/NON_PEM0	-	Not used
29	VDDA33	-	Power supply terminal (+3.3V)
30, 31	USBUP_DM, USBUP_DP	I/O	Two-way audio serial data with the audio processor
32	XTAL2	O	System clock (24 MHz) output terminal
33	XTAL1/CLKIN	I	System clock (24 MHz) input terminal
34	VDD18PLL	-	Power supply terminal (+1.8V)
35	RBIAS	-	Not used
36	VDD33PLL	-	Power supply terminal (+3.3V)

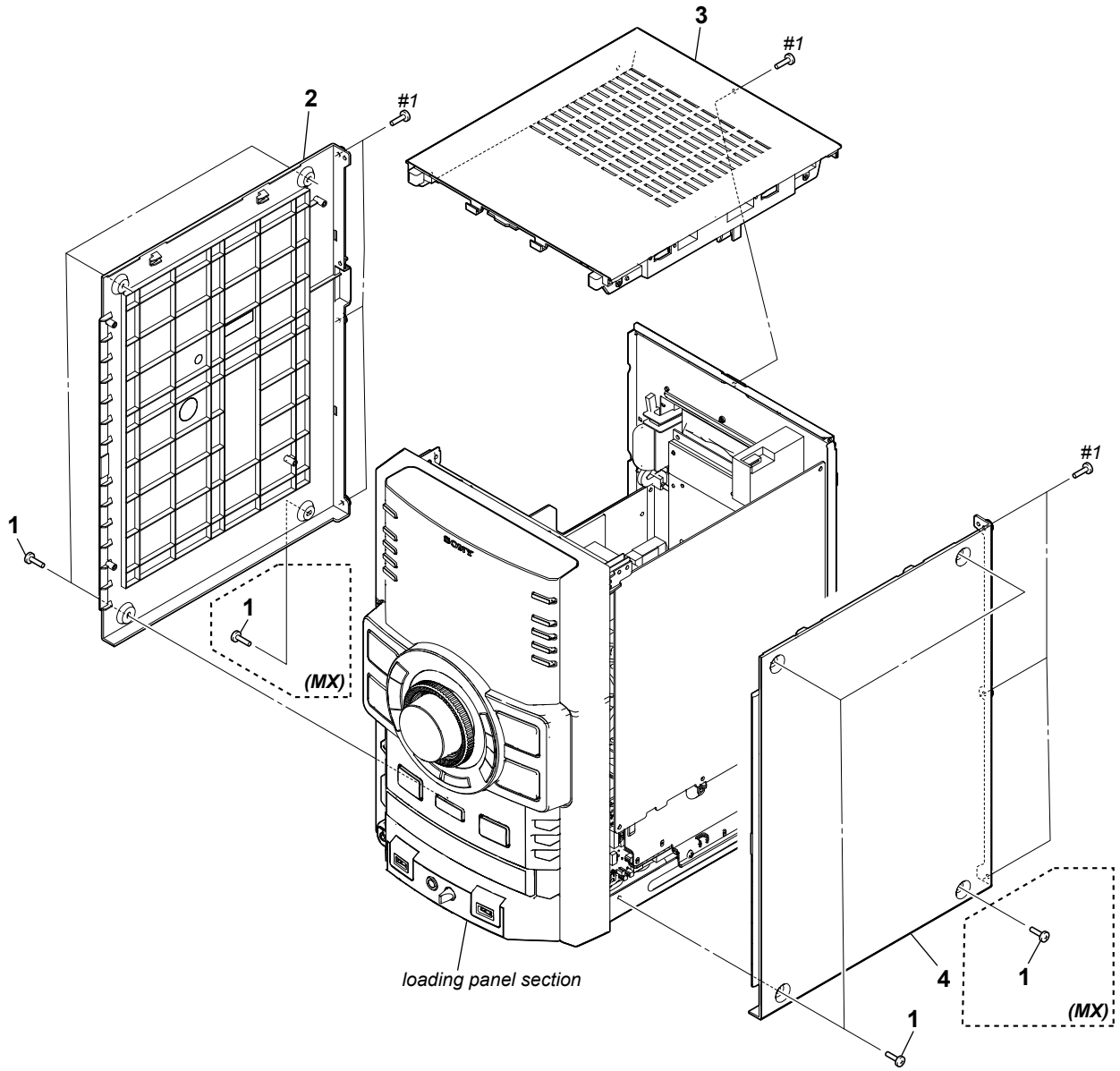
SECTION 6
EXPLODED VIEWS

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 Color ↑ Cabinet's Color
- Abbreviation
  AR : Argentine model
  E2 : 120V AC area in E model
  E3 : 240V AC area in E model
  E51 : Chilean and Peruvian models
  MX : Mexican model

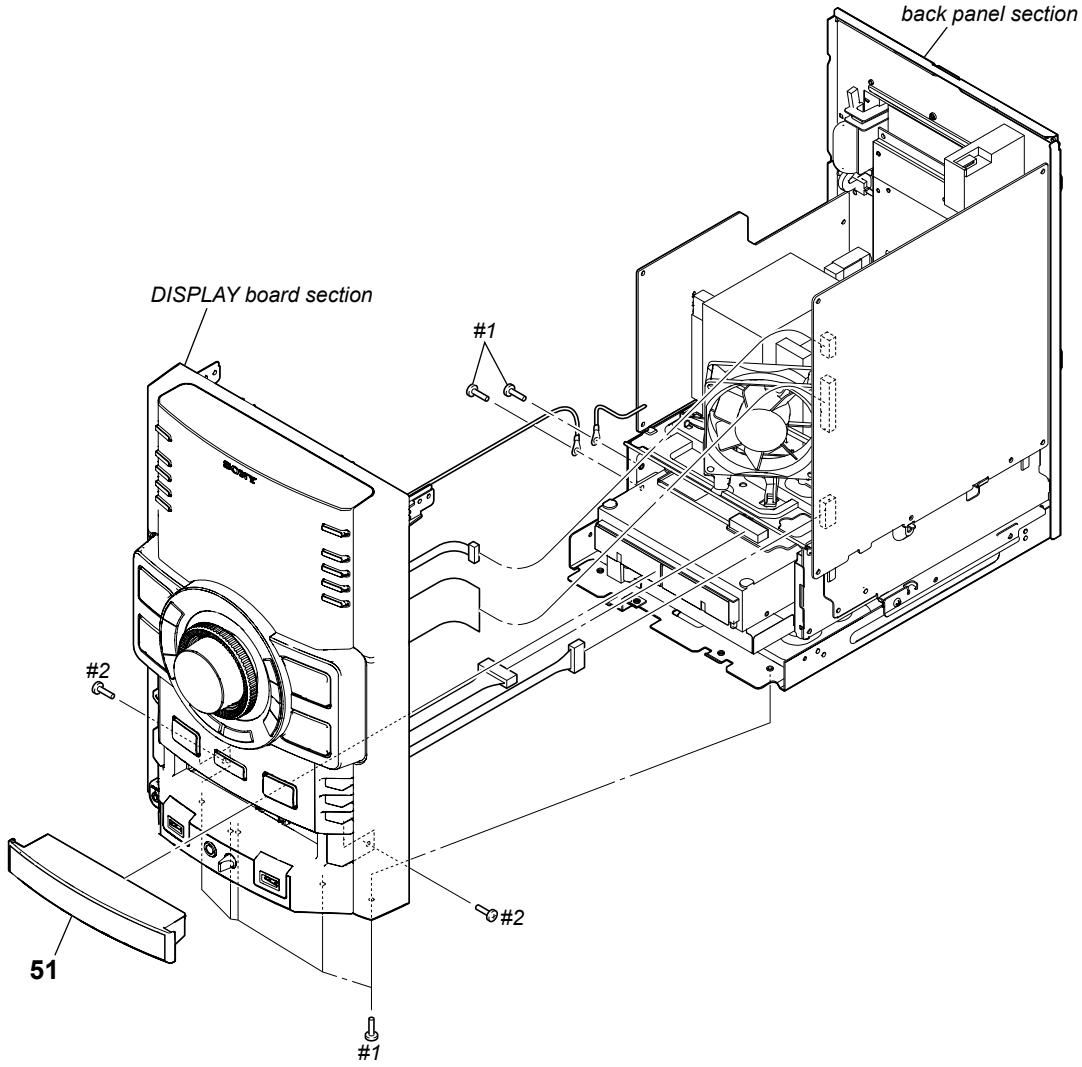
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

6-1. CASE SECTION



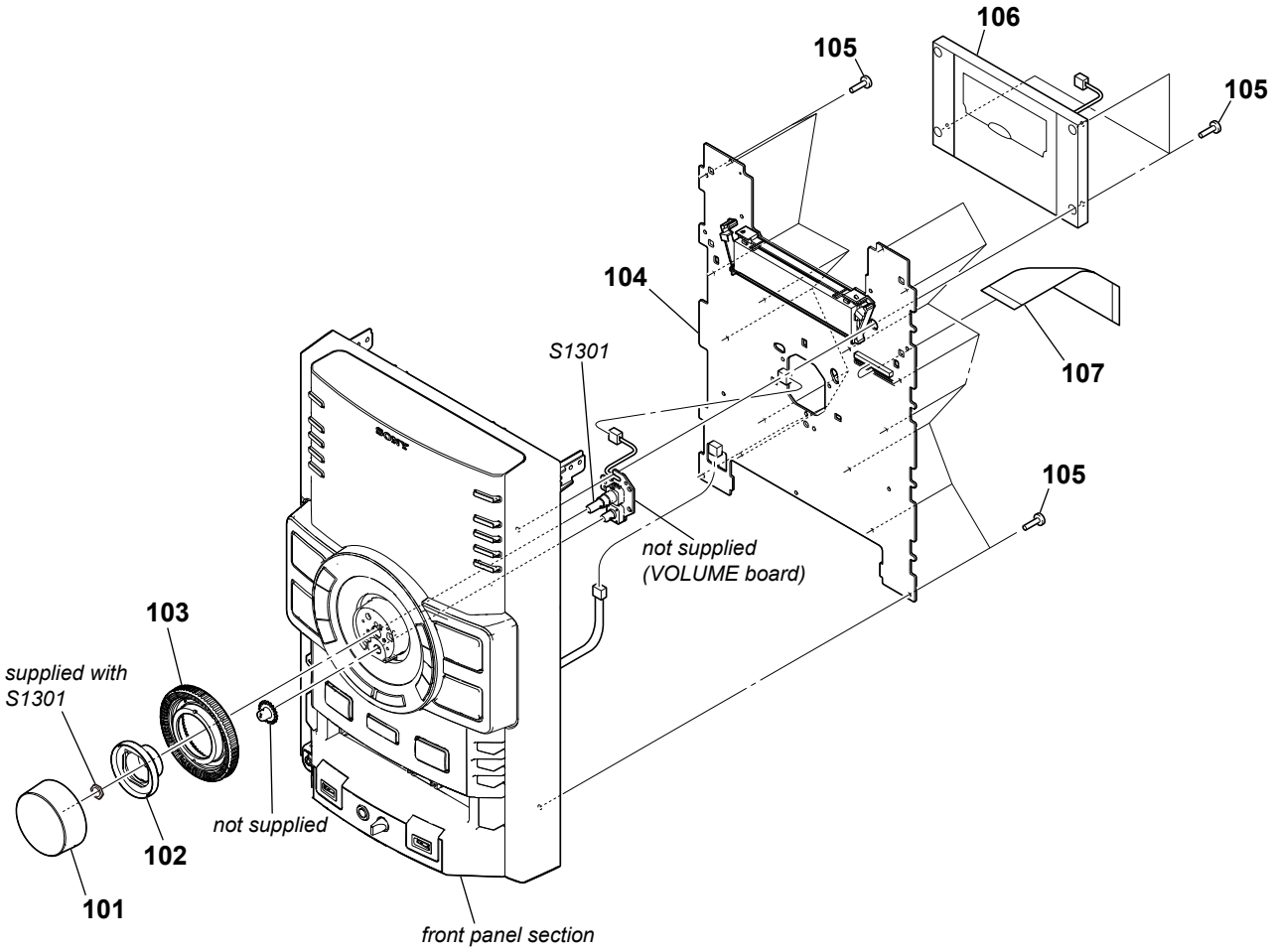
Ref. No.	Part No.	Description	Remark
1	3-363-099-32	SCREW (CASE 3 TP2)	
2	3-283-218-01	CASE, (SIDE-L) (MX)	
2	3-283-218-22	CASE, (SIDE-L) (EXCEPT MX)	
3	4-124-215-01	CASE, TOP	
4	3-283-219-01	CASE, (SIDE-R) (MX)	
4	3-283-219-22	CASE, (SIDE-R) (EXCEPT MX)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

6-2. LOADING PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	4-124-214-21	PANEL, LOADING (GTZ3: E2, E51, MX, AR)	
51	4-124-214-31	PANEL, LOADING (GTZ2)	
51	4-124-214-61	PANEL, LOADING (GTZ3i)	
51	4-124-214-71	PANEL, LOADING (GTZ2i)	
51	4-130-318-61	PANEL, LOADING (GTZ3: E3)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

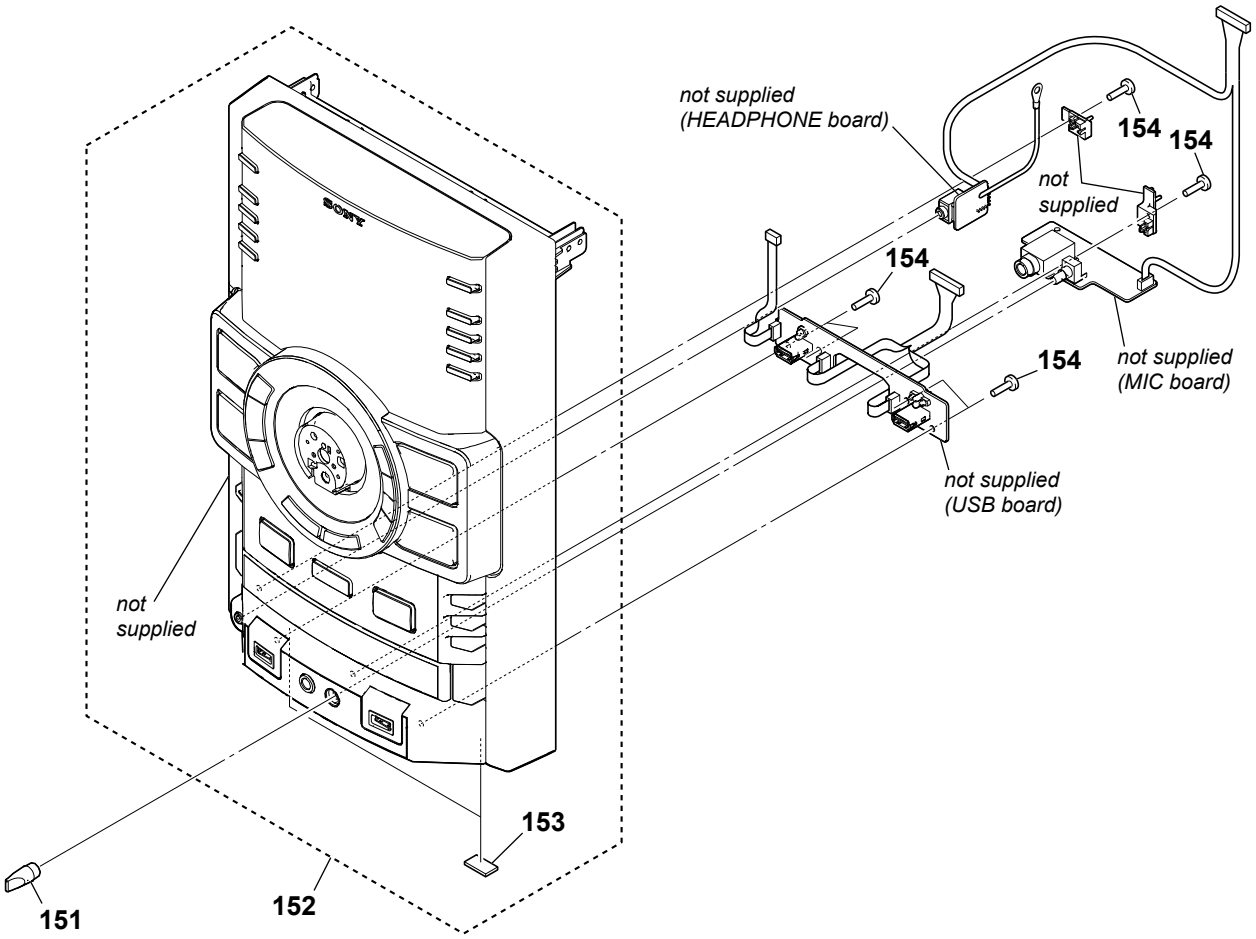
6-3. DISPLAY BOARD SECTION



Ref. No.	Part No.	Description	Remark
101	4-124-203-01	KNOB (VOLUME)	
102	4-124-204-01	HOLDER (JOG)	
103	4-124-205-11	KNOB (JOG)	
104	A-1660-094-A	DISPLAY BOARD, COMPLETE (GTZ2/GTZ2i)	
104	A-1711-928-A	DISPLAY BOARD, COMPLETE (GTZ3/GTZ3i)	

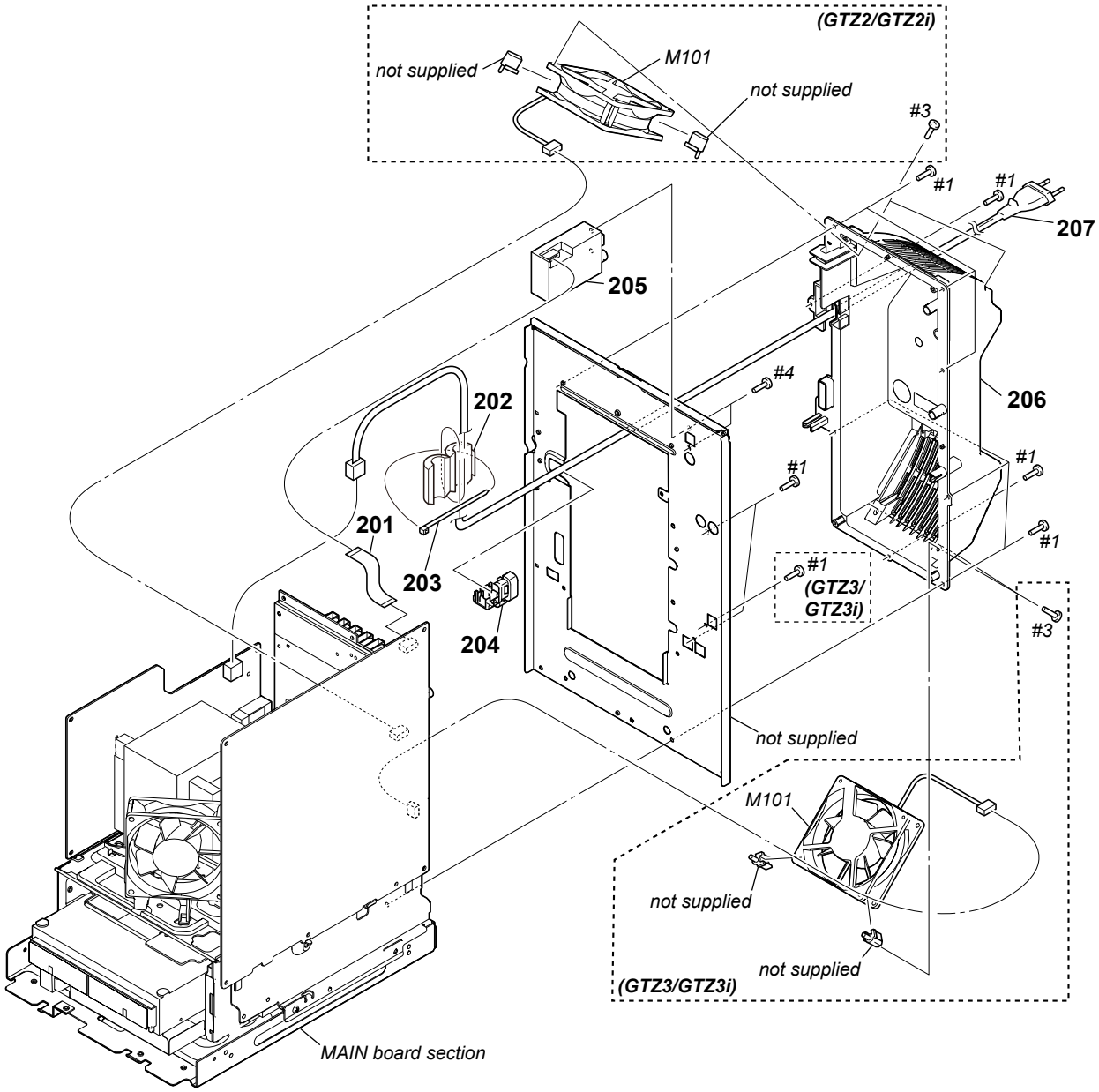
Ref. No.	Part No.	Description	Remark
105	3-087-053-01	+BVTP2.6 (3CR)	
106	A-1718-276-A	PANEL (GTL1) ASSY, DISPLAY	
107	1-829-040-11	WIRE (FLAT TYPE) (27 CORE)	
S1301	1-487-171-11	ROTARY ENCODER (MASTER VOLUME)	

6-4. FRONT PANEL SECTION



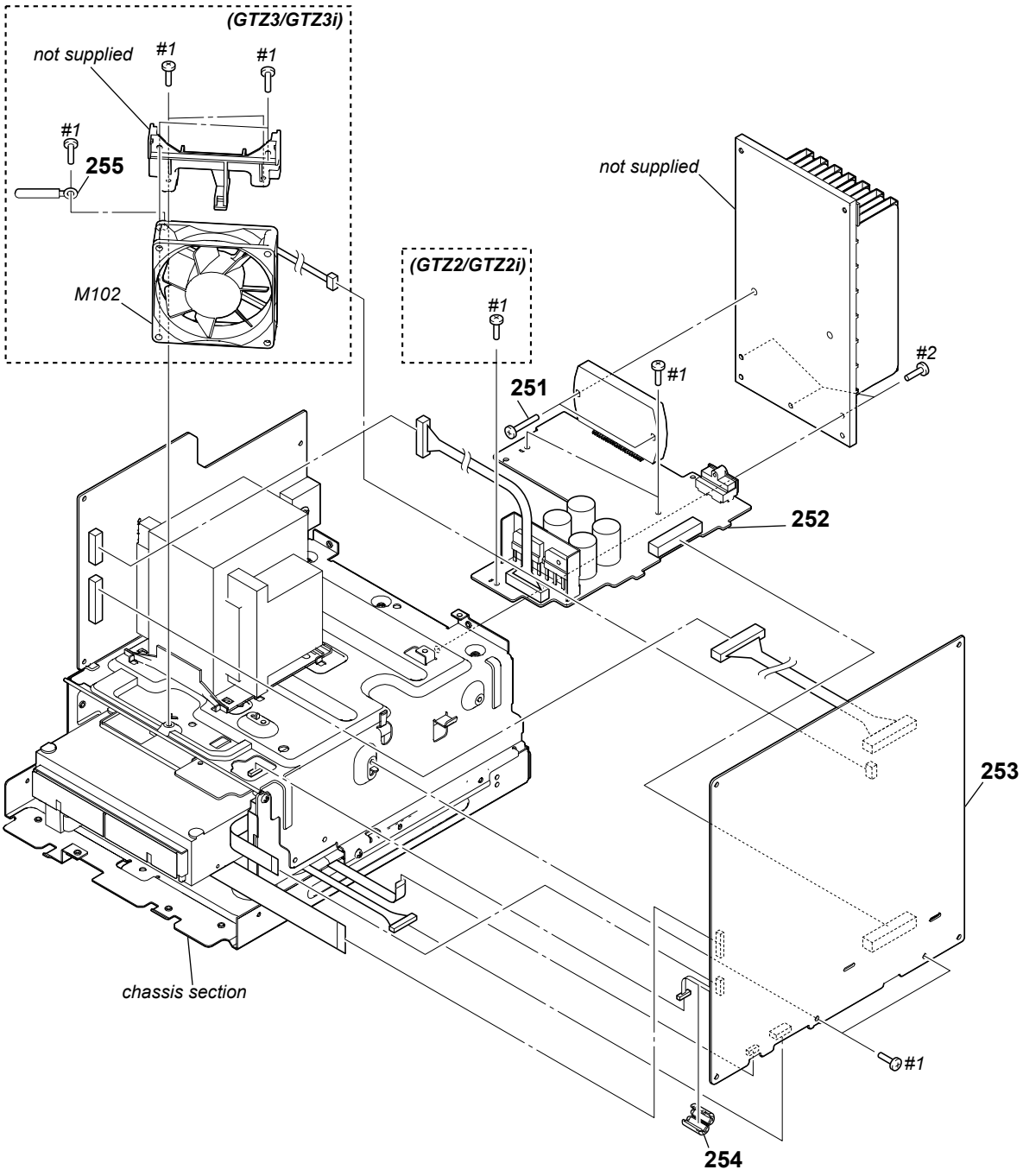
Ref. No.	Part No.	Description	Remark
151	2-895-507-01	KNOB (MIC)	
152	X-2345-051-2	FRONT PANEL ASSY (GTZ3)	
152	X-2345-052-2	FRONT PANEL ASSY (GTZ3i)	
152	X-2345-053-2	FRONT PANEL ASSY (GTZ2)	
152	X-2345-054-2	FRONT PANEL ASSY (GTZ2i)	
153	4-225-252-01	CUSHION (FOOT)	
154	3-087-053-01	+BVTP2.6 (3CR)	

6-5. BACK PANEL SECTION



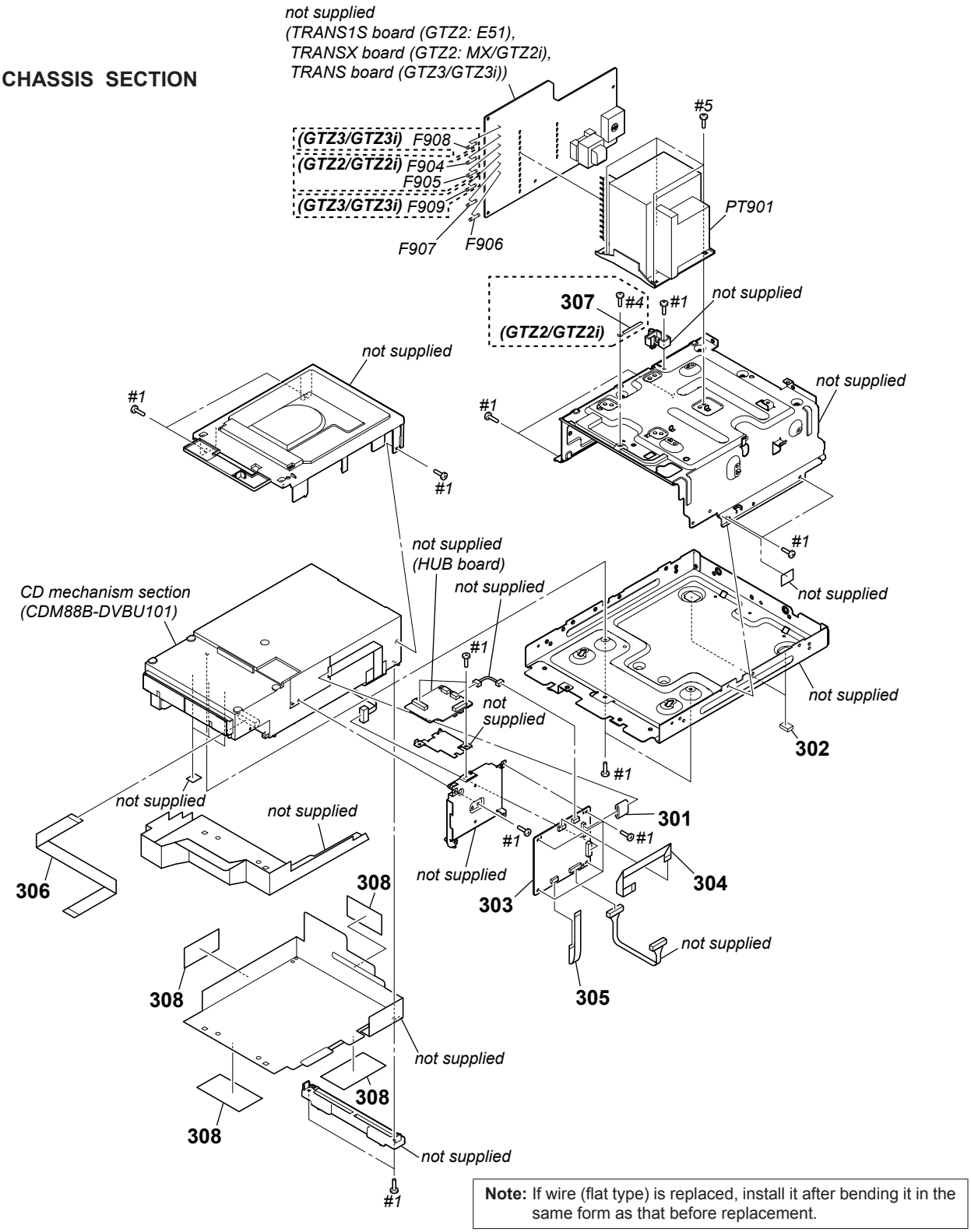
Ref. No.	Part No.	Description	Remark
201	1-828-952-11	WIRE (FLAT TYPE) (9 CORE) (GTZ2/GTZ3)	
201	1-828-962-11	WIRE (FLAT TYPE) (11 CORE) (GTZ2i/GTZ3i)	
202	1-457-369-12	CORE, FERRITE	
203	3-655-653-11	BAND (TAITON), BINDING	
204	3-703-244-00	CORD BUSH (2104) (EXCEPT MX)	
204	3-703-571-11	CORD BUSH (4516) (MX)	
205	1-693-759-11	TUNER (FM/AM) (GTZ2i/GTZ3i)	
205	1-693-764-22	TUNER (FM/AM) (GTZ2/GTZ3)	
206	4-124-216-03	COVER (FAN) (GTZ3: E2, E3, E51)	
206	4-124-216-12	COVER (FAN) (GTZ3: MX, AR/GTZ3i)	
206	4-124-216-43	COVER (FAN) (GTZ2: E51)	
206	4-124-216-52	COVER (FAN) (GTZ2: MX/GTZ2i)	
⚠ 207	1-777-071-83	CORD, POWER (AEP, UK, E2, E3, E51)	
⚠ 207	1-829-387-11	CORD, POWER (AR)	
⚠ 207	1-829-627-11	POWER-SUPPLY CORD (MX)	
M101	1-787-344-11	FAN, DC	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#3	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
#4	7-685-871-01	SCREW +BVTT 3X6 (S)	

6-6. MAIN BOARD SECTION



Ref. No.	Part No.	Description	Remark
251	3-905-609-31	SCREW (TRANSISTOR)	
252	A-1660-548-A	POWER AMP BOARD, COMPLETE (GTZ2: E51)	
252	A-1660-551-A	POWER AMP BOARD, COMPLETE (GTZ2i)	
252	A-1660-555-A	POWER AMP BOARD, COMPLETE (GTZ3)	
252	A-1660-558-A	POWER AMP BOARD, COMPLETE (GTZ3i)	
252	A-1717-946-A	POWER AMP BOARD, COMPLETE (GTZ2: MX)	
253	A-1660-520-A	MAIN BOARD, COMPLETE (GTZ2: E51)	
253	A-1660-525-A	MAIN BOARD, COMPLETE (GTZ3: E2, E51)	
253	A-1660-571-A	MAIN BOARD, COMPLETE (GTZ2i)	
253	A-1660-575-A	MAIN BOARD, COMPLETE (GTZ3i: AEP)	
253	A-1717-198-A	MAIN BOARD, COMPLETE (GTZ3i: UK)	
253	A-1717-201-A	MAIN BOARD, COMPLETE (GTZ3: E3)	
253	A-1717-204-A	MAIN BOARD, COMPLETE (GTZ3: AR)	
253	A-1717-950-A	MAIN BOARD, COMPLETE (GTZ2: MX)	
253	A-1718-045-A	MAIN BOARD, COMPLETE (GTZ3: MX)	
254	1-543-793-11	FILTER, CLAMP (FERRITE CORE)	
* 255	3-703-150-11	CLAMP (GTZ3/GTZ3i)	
M102	1-763-372-11	FAN, DC (GTZ3/GTZ3i)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

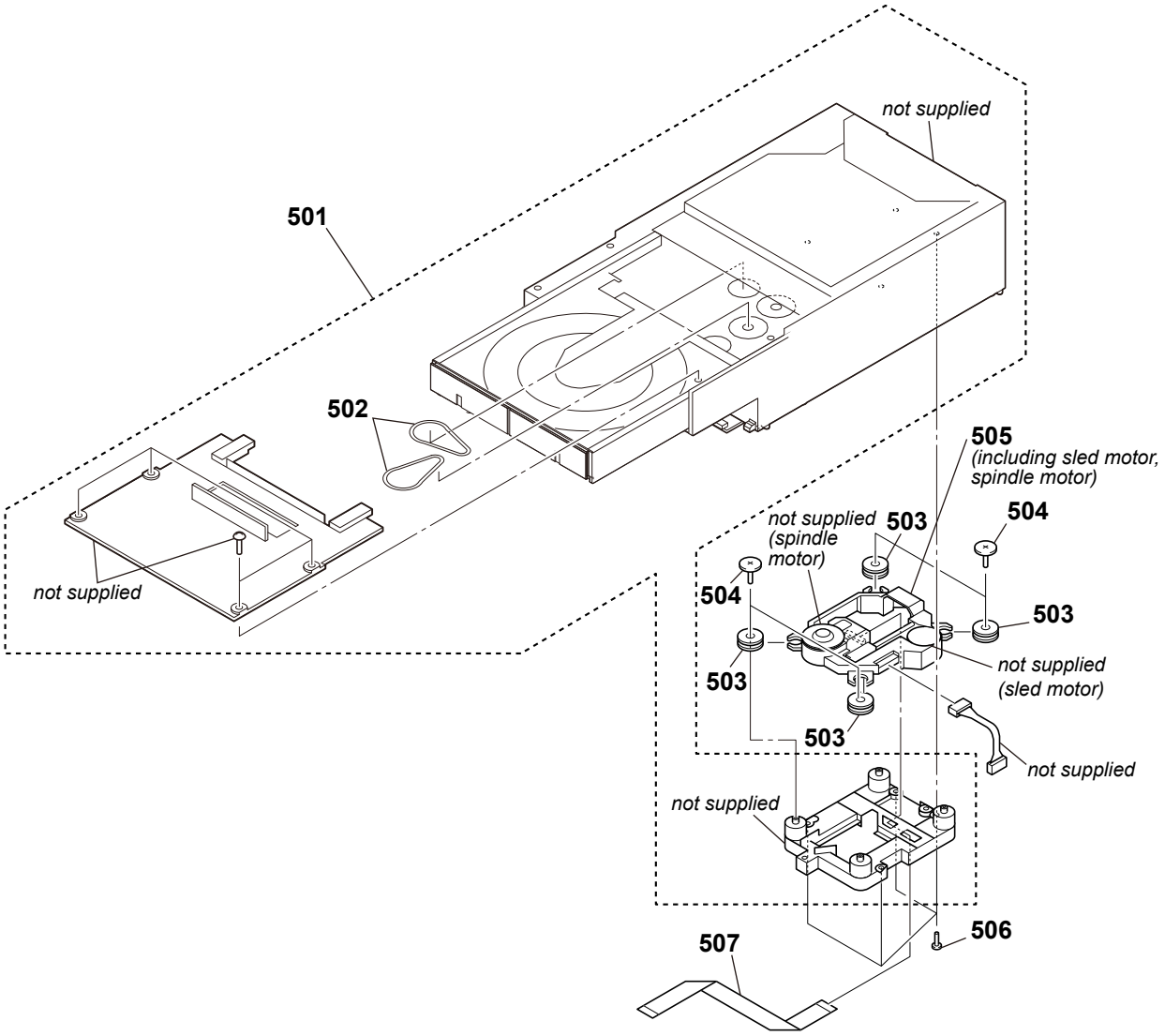
6-7. CHASSIS SECTION



Note: If wire (flat type) is replaced, install it after bending it in the same form as that before replacement.

Ref. No.	Part No.	Description	Remark
301	1-469-829-11	CORE, FERRITE	
302	4-225-252-01	CUSHION (FOOT)	
303	A-1653-556-A	DMB19 BOARD, COMPLETE (GTZ2: E51/GTZ3: E2, E3, E51, AR)	
303	A-1653-557-A	DMB19 BOARD, COMPLETE (GTZ2i/GTZ3i)	
303	A-1719-645-A	DMB19 BOARD, COMPLETE (GTZ2: MX/GTZ3: MX)	
304	1-828-311-11	WIRE (FLAT TYPE) (9 CORE)	
305	1-836-973-11	WIRE (FLAT TYPE) (7 CORE)	
306	1-828-975-11	WIRE (FLAT TYPE) (13 CORE)	
* 307	3-703-150-11	CLAMP (GTZ2/GTZ2i)	
308	3-831-441-11	CUSHION, SARANET	
⚠ F904	1-532-505-33	FUSE (T5AL/250V) (GTZ2/GTZ2i)	
⚠ F905	1-532-505-33	FUSE (T5AL/250V) (GTZ2/GTZ2i)	
⚠ F906	1-532-504-33	FUSE (T4AL/250V)	
⚠ F907	1-532-503-33	FUSE (T1.6AL/250V)	
⚠ F908	1-532-506-33	FUSE (T6.3AL/250V) (GTZ3/GTZ3i)	
⚠ F909	1-532-506-33	FUSE (T6.3AL/250V) (GTZ3/GTZ3i)	
⚠ PT901	1-445-601-11	POWER TRANSFORMER (GTZ3i)	
⚠ PT901	1-445-603-11	POWER TRANSFORMER (GTZ2: E51)	
⚠ PT901	1-445-605-11	POWER TRANSFORMER (GTZ3: MX)	
⚠ PT901	1-445-606-11	POWER TRANSFORMER (GTZ3: E2, E3, E51, AR)	
⚠ PT901	1-445-609-11	POWER TRANSFORMER (GTZ2i)	
⚠ PT901	1-445-610-11	POWER TRANSFORMER (GTZ2: MX)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#4	7-685-871-01	SCREW +BVTT 3X6 (S) (GTZ2/GTZ2i)	
#5	7-685-880-09	SCREW +BVTT 4X6 (S)	

6-8. CD MECHANISM SECTION (CDM88B-DVBU101)



Note: If wire (flat type) is replaced, install it after bending it in the same form as that before replacement.

Ref. No.	Part No.	Description	Remark
501	1-797-193-72	MECHANICAL, CD (DLM3A)	
502	2-632-062-01	BELT (DLM3A)	
503	2-634-618-21	INSULATOR	
504	3-087-599-01	INSULATOR SCREW	
⚠ 505	8-820-322-04	OPTICAL PICK-UP BLOCK (KHM-313CAB/C2RP) (Including sled motor, spindle motor)	

Ref. No.	Part No.	Description	Remark
506	3-087-053-01	+BVTP2.6 (3CR)	
507	1-828-252-11	WIRE (FLAT TYPE) (24 CORE)	

SECTION 7
ELECTRICAL PARTS LIST

Note:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- CAPACITORS
  uF: µF
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . , uPA. . , µPA. . ,
  uPB. . : µPB. . , uPC. . , µPC. . ,
  uPD. . : µPD. .
- Abbreviation
  AR : Argentine model
  E2 : 120V AC area in E model
  E3 : 240V AC area in E model
  E51 : Chilean and Peruvian models
  MX : Mexican 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
	A-1660-094-A	DISPLAY BOARD, COMPLETE (GTZ2/GTZ2i)			
	A-1711-928-A	DISPLAY BOARD, COMPLETE (GTZ3/GTZ3i)			
		**********			
		< CAPACITOR >			
C1136	1-124-257-00	ELECT	2.2uF	20%	50V
C1137	1-126-961-11	ELECT	2.2uF	20%	50V
C1139	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1140	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C1147	1-126-965-91	ELECT	22uF	20%	50V
C1150	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1151	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1152	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1153	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1155	1-126-947-11	ELECT	47uF	20%	35V
C1156	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN1100	1-784-788-11	CONNECTOR, FFC 27P			
CN1102	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN1103	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< DIODE >			
D1101	6-502-851-01	LED 1L034FV22D0DAT09 (I/⏻ STANDBY)			
D1102	6-501-752-01	DIODE MAZ8082GMLS0			
D1104	8-719-060-27	LED SLR-325MCT31 (SUBWOOFER)			(GTZ3/GTZ3i)
D1105	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)			
D1106	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)			
D1107	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)			
D1108	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)			
D1109	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)			
D1110	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)			
		< FLUORESCENT INDICATOR TUBE >			
FL1100	1-483-077-11	VACUUM FLUORESCENT DISPLAYS			
		< IC >			
IC1100	6-711-556-01	IC NJL24H400B-SA			
IC1101	6-713-680-01	IC PT6324-Q			
		< TRANSISTOR >			
Q1114	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q1115	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q1116	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q1117	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q1118	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q1119	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q1120	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q1121	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q1122	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
		< RESISTOR >			
R1100	1-216-819-11	METAL CHIP	680	5%	1/10W
R1101	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1102	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1103	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1104	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1105	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1107	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1108	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1109	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1110	1-216-837-11	METAL CHIP	22K	5%	1/10W (GTZ3/GTZ3i)
R1112	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1113	1-216-819-11	METAL CHIP	680	5%	1/10W
R1114	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1115	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1116	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1117	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1118	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1119	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1120	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1156	1-216-864-11	SHORT CHIP	0		
R1158	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1160	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1161	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1162	1-216-819-11	METAL CHIP	680	5%	1/10W
R1163	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1164	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1165	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1166	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1167	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1168	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1169	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1170	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1171	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1173	1-216-821-11	METAL CHIP	1K	5%	1/10W (GTZ3/GTZ3i)

Ref. No.	Part No.	Description			Remark
R1174	1-216-821-11	METAL CHIP	1K	5%	1/10W (GTZ3/GTZ3i)
R1175	1-216-809-11	METAL CHIP	100	5%	1/10W
R1177	1-216-817-11	METAL CHIP	470	5%	1/10W
R1178	1-216-819-11	METAL CHIP	680	5%	1/10W
R1180	1-216-817-11	METAL CHIP	470	5%	1/10W
R1181	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1183	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1185	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1189	1-216-819-11	METAL CHIP	680	5%	1/10W
R1190	1-216-819-11	METAL CHIP	680	5%	1/10W
R1195	1-216-819-11	METAL CHIP	680	5%	1/10W
R1196	1-216-819-11	METAL CHIP	680	5%	1/10W
R1198	1-216-819-11	METAL CHIP	680	5%	1/10W
R1199	1-216-819-11	METAL CHIP	680	5%	1/10W
R1201	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1205	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1207	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1209	1-216-809-11	METAL CHIP	100	5%	1/10W
R1210	1-216-809-11	METAL CHIP	100	5%	1/10W
R1211	1-216-809-11	METAL CHIP	100	5%	1/10W
R1215	1-216-845-11	METAL CHIP	100K	5%	1/10W
		< SWITCH >			
S1100	1-771-410-21	SWITCH, TACTILE (I/⏻ STANDBY)			
S1101	1-771-410-21	SWITCH, TACTILE (DISPLAY)			
S1102	1-771-410-21	SWITCH, TACTILE (METER MODE)			
S1103	1-771-410-21	SWITCH, TACTILE (OPTIONS)			
S1104	1-771-410-21	SWITCH, TACTILE (ERASE)			
S1105	1-771-410-21	SWITCH, TACTILE (SURROUND)			
S1106	1-771-410-21	SWITCH, TACTILE (EQ BAND)			
S1107	1-771-410-21	SWITCH, TACTILE (GROOVE)			
S1108	1-771-410-21	SWITCH, TACTILE (PRESET EQ)			
S1109	1-771-410-21	SWITCH, TACTILE (REC TIMER)			
S1110	1-771-410-21	SWITCH, TACTILE (CD)			
S1111	1-771-410-21	SWITCH, TACTILE (FOLDER –)			
S1112	1-771-410-21	SWITCH, TACTILE (►)			
S1113	1-771-410-21	SWITCH, TACTILE (TUNING –, ⏮ ◀◀)			
S1114	1-771-410-21	SWITCH, TACTILE (USB)			
S1115	1-771-410-21	SWITCH, TACTILE (TUNING +, ▶▶⏭ ▶▶)			
S1116	1-771-410-21	SWITCH, TACTILE (■)			
S1117	1-771-410-21	SWITCH, TACTILE (❚❚)			
S1118	1-771-410-21	SWITCH, TACTILE (FOLDER +)			
S1119	1-771-410-21	SWITCH, TACTILE (TUNER/BAND)			
S1121	1-771-410-21	SWITCH, TACTILE (PC)			
S1122	1-771-410-21	SWITCH, TACTILE (SUBWOOFER) (GTZ3/GTZ3i)			
S1123	1-771-410-21	SWITCH, TACTILE (DISC SKIP/EX-CHANGE)			
S1124	1-771-410-21	SWITCH, TACTILE (USB A)			
S1125	1-771-410-21	SWITCH, TACTILE (RETURN)			
S1126	1-771-410-21	SWITCH, TACTILE (REC TO USB)			
S1127	1-771-410-21	SWITCH, TACTILE (ENTER)			
S1128	1-771-410-21	SWITCH, TACTILE (USB B)			
S1129	1-771-410-21	SWITCH, TACTILE (DISC 1)			
S1130	1-771-410-21	SWITCH, TACTILE (DISC 2)			
S1131	1-771-410-21	SWITCH, TACTILE (DISC 3)			
S1132	1-771-410-21	SWITCH, TACTILE (⏏ OPEN/CLOSE)			

****

Ref. No.	Part No.	Description			Remark
	A-1653-556-A	DMB19 BOARD, COMPLETE (GTZ2: E51/GTZ3: E2, E3, E51, AR)			
	A-1653-557-A	DMB19 BOARD, COMPLETE (GTZ2i/GTZ3i)			
	A-1719-645-A	DMB19 BOARD, COMPLETE (GTZ2: MX/GTZ3: MX)			
		**********			
		< CAPACITOR >			
C101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C102	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C103	1-164-360-11	CERAMIC CHIP	0.1uF		16V (GTZ2i/GTZ3i)
C104	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (GTZ2i/GTZ3i)
C105	1-128-994-21	ELECT CHIP	47uF	20%	10V
C106	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C108	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C111	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C112	1-128-994-21	ELECT CHIP	47uF	20%	10V
C113	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C115	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C118	1-124-779-00	ELECT CHIP	10uF	20%	16V
C119	1-137-710-91	CERAMIC CHIP	10uF	20%	6.3V
C124	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C126	1-137-710-91	CERAMIC CHIP	10uF	20%	6.3V
C127	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C144	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C145	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C146	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C149	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C150	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C151	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C152	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C153	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C154	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C155	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C168	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C169	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C172	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C175	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C179	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C180	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C181	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C183	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C188	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C190	1-128-995-21	ELECT CHIP	100uF	20%	10V
C191	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C192	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C193	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C195	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C197	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C198	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C199	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C203	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C205	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C206	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C208	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

DMB19

Ref. No.	Part No.	Description			Remark
C209	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C210	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C211	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C212	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C213	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C214	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C215	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C216	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C217	1-117-681-11	ELECT CHIP	100uF	20%	16V
C218	1-128-994-21	ELECT CHIP	47uF	20%	10V
C219	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C220	1-128-994-21	ELECT CHIP	47uF	20%	10V
C221	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C222	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C233	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C502	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C602	1-128-995-21	ELECT CHIP	100uF	20%	10V
C603	1-128-995-21	ELECT CHIP	100uF	20%	10V
C604	1-128-995-21	ELECT CHIP	100uF	20%	10V
C608	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C611	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C620	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C621	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C622	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C623	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C1504	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1505	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1506	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1507	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1512	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C4602	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C4603	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C4606	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C4608	1-124-779-00	ELECT CHIP	10uF	20%	16V
C4622	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C4623	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C4626	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
CN101	1-815-763-32	CONNECTOR, FFC/FPC 24P			
CN105	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P			
CN201	1-770-161-21	PIN, CONNECTOR (PC BOARD) 6P			
CN601	1-778-795-21	PIN, CONNECTOR (PC BOARD) 9P			
* CN1105	1-750-005-11	PIN, CONNECTOR (PC BOARD) 4P			
CN1106	1-784-861-51	CONNECTOR, FFC (LIF (NON-ZIF)) 9P			
CN4602	1-784-859-51	CONNECTOR, FFC (LIF (NON-ZIF)) 7P			
		< DIODE >			
D001	6-500-848-01	DIODE MC2840-T112-1			
D002	6-500-848-01	DIODE MC2840-T112-1			
D003	6-500-848-01	DIODE MC2840-T112-1			
D004	6-500-848-01	DIODE MC2840-T112-1			
D005	6-500-848-01	DIODE MC2840-T112-1			
		< EARTH TERMINAL >			
ET001	1-780-482-11	EARTH TERMINAL			
ET002	1-780-482-11	EARTH TERMINAL			
ET003	1-780-482-11	EARTH TERMINAL			
ET004	1-780-482-11	EARTH TERMINAL			

Note: When IC102 cannot exchange with single. When this part is damaged, exchange the entire mounted board.

Ref. No.	Part No.	Description			Remark
		< FERRITE BEAD >			
FB108	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB603	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB607	1-469-324-21	FERRITE, EMI (SMD) (2012)			
FB1264	1-469-118-21	FERRITE, EMI (SMD) (1608)			
FB1265	1-469-118-21	FERRITE, EMI (SMD) (1608)			
FB1266	1-469-118-21	FERRITE, EMI (SMD) (1608)			
FB1267	1-469-118-21	FERRITE, EMI (SMD) (1608)			
FB1268	1-469-118-21	FERRITE, EMI (SMD) (1608)			
		< FILTER >			
FL603	1-234-494-21	FILTER, EMI REMOVAL (SMD)			
		< IC >			
IC101	6-713-721-01	IC CXD9968R			
IC102	(Not supplied)	IC MX25L1605DM2I-12G			
IC104	6-711-090-01	IC K4S641632K-UC60T			
IC106	6-713-555-01	IC MFI341S2161 (GTZ2i/GTZ3i)			
IC107	6-702-302-01	IC TK11133CSCL-G			
IC111	6-706-838-01	IC MM1661JHBE			
IC201	6-704-524-01	IC FAN8036L			
IC4601	6-710-554-01	IC PCM1808PWR			
IC4602	6-704-819-01	IC CS4335-KSZR			
		< TRANSISTOR >			
Q101	6-550-008-01	FET	UM6K1N-TN		
Q102	6-550-653-01	TRANSISTOR	QST8TR		
Q103	8-729-027-52	TRANSISTOR	DTC124EKA-T146		
		< RESISTOR/FERRITE BEAD >			
R101	1-216-809-11	METAL CHIP	100	5%	1/10W
R102	1-216-864-11	SHORT CHIP	0		
R103	1-218-864-11	METAL CHIP	5.1K	0.5%	1/10W
R104	1-216-864-11	SHORT CHIP	0 (GTZ2i/GTZ3i)		
R105	1-216-864-11	SHORT CHIP	0 (GTZ2i/GTZ3i)		
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R108	1-216-857-11	METAL CHIP	1M	5%	1/10W
R109	1-216-809-11	METAL CHIP	100	5%	1/10W
R110	1-216-841-11	METAL CHIP	47K	5%	1/10W
R111	1-216-809-11	METAL CHIP	100	5%	1/10W
R112	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R113	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R114	1-216-845-11	METAL CHIP	100K	5%	1/10W
R115	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R116	1-216-821-11	METAL CHIP	1K	5%	1/10W
R117	1-216-841-11	METAL CHIP	47K	5%	1/10W
R118	1-216-801-11	METAL CHIP	22	5%	1/10W
R120	1-216-801-11	METAL CHIP	22	5%	1/10W
R121	1-216-801-11	METAL CHIP	22	5%	1/10W
R122	1-216-833-11	METAL CHIP	10K	5%	1/10W
R123	1-216-809-11	METAL CHIP	100	5%	1/10W
R124	1-216-841-11	METAL CHIP	47K	5%	1/10W
R125	1-216-833-11	METAL CHIP	10K	5%	1/10W
R133	1-216-864-11	SHORT CHIP	0		
R136	1-216-835-11	METAL CHIP	15K	5%	1/10W
R142	1-216-845-11	METAL CHIP	100K	5%	1/10W
R156	1-216-809-11	METAL CHIP	100	5%	1/10W
R204	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R206	1-216-833-11	METAL CHIP	10K	5%	1/10W
R207	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R208	1-216-839-11	METAL CHIP	33K	5%	1/10W
R209	1-216-839-11	METAL CHIP	33K	5%	1/10W
R210	1-216-841-11	METAL CHIP	47K	5%	1/10W
R212	1-216-833-11	METAL CHIP	10K	5%	1/10W
R213	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R214	1-216-835-11	METAL CHIP	15K	5%	1/10W
R215	1-216-834-11	METAL CHIP	12K	5%	1/10W
R216	1-216-834-11	METAL CHIP	12K	5%	1/10W
R219	1-216-838-11	METAL CHIP	27K	5%	1/10W
R220	1-216-821-11	METAL CHIP	1K	5%	1/10W
R221	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R223	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R225	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R226	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R230	1-218-893-11	METAL CHIP	82K	0.5%	1/10W
R231	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R232	1-218-877-11	METAL CHIP	18K	0.5%	1/10W
R233	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R234	1-216-833-11	METAL CHIP	10K	5%	1/10W
R246	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R247	1-216-821-11	METAL CHIP	1K	5%	1/10W
R256	1-216-833-11	METAL CHIP	10K	5%	1/10W
R521	1-216-833-11	METAL CHIP	10K	5%	1/10W
R605	1-216-295-91	SHORT CHIP	0		
R606	1-216-295-91	SHORT CHIP	0		
R608	1-216-295-91	SHORT CHIP	0		
R630	1-216-295-91	SHORT CHIP	0		
R1101	1-218-841-11	METAL CHIP	560	0.5%	1/10W
R1110	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R1114	1-500-903-21	EMI FERRITE (SMD)			
R1121	1-216-864-11	SHORT CHIP	0		
R1123	1-216-864-11	SHORT CHIP	0		
R1129	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1150	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1151	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1152	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1168	1-218-835-11	METAL CHIP	330	0.5%	1/10W
R1177	1-216-864-11	SHORT CHIP	0		
R1178	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1184	1-216-809-11	METAL CHIP	100	5%	1/10W
R1191	1-216-864-11	SHORT CHIP	0		
R1192	1-216-864-11	SHORT CHIP	0		
R1193	1-216-864-11	SHORT CHIP	0		
R1194	1-216-864-11	SHORT CHIP	0		
R1248	1-216-295-91	SHORT CHIP	0		
R1249	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1250	1-216-295-91	SHORT CHIP	0		
R1252	1-216-295-91	SHORT CHIP	0		
R1254	1-216-295-91	SHORT CHIP	0 (GTZ2i/GTZ3i)		
R1255	1-216-295-91	SHORT CHIP	0		
R1256	1-216-295-91	SHORT CHIP	0		
R1261	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1262	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1263	1-216-864-11	SHORT CHIP	0		
R1269	1-216-809-11	METAL CHIP	100	5%	1/10W
R1270	1-216-864-11	SHORT CHIP	0 (GTZ2i/GTZ3i)		
R1271	1-216-864-11	SHORT CHIP	0 (GTZ2i/GTZ3i)		

Ref. No.	Part No.	Description			Remark
R1276	1-216-864-11	SHORT CHIP	0		
R1277	1-216-809-11	METAL CHIP	100	5%	1/10W
R1278	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1279	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1280	1-216-864-11	SHORT CHIP	0		
R1281	1-216-864-11	SHORT CHIP	0		
R1282	1-216-864-11	SHORT CHIP	0		
R1283	1-216-864-11	SHORT CHIP	0		
R4601	1-216-809-11	METAL CHIP	100	5%	1/10W
R4602	1-216-809-11	METAL CHIP	100	5%	1/10W
R4605	1-469-112-21	FERRITE, EMI (SMD) (1608)			
R4606	1-216-801-11	METAL CHIP	22	5%	1/10W
R4608	1-216-864-11	SHORT CHIP	0		
R4609	1-216-864-11	SHORT CHIP	0		
R4611	1-216-864-11	SHORT CHIP	0		
R4833	1-216-864-11	SHORT CHIP	0		
R4834	1-216-864-11	SHORT CHIP	0		
R4835	1-216-295-91	SHORT CHIP	0		
R4837	1-216-864-11	SHORT CHIP	0		
R4838	1-216-864-11	SHORT CHIP	0		
		< COMPOSITION CIRCUIT BLOCK >			
RB105	1-234-400-21	CONDUCTOR, NETWORK (1005X4)			
RB106	1-234-400-21	CONDUCTOR, NETWORK (1005X4)			
RB107	1-234-400-21	CONDUCTOR, NETWORK (1005X4)			
RB108	1-234-400-21	CONDUCTOR, NETWORK (1005X4)			
RB111	1-234-400-21	CONDUCTOR, NETWORK (1005X4)			
RB112	1-234-400-21	CONDUCTOR, NETWORK (1005X4)			
RB113	1-234-400-21	CONDUCTOR, NETWORK (1005X4)			
RB114	1-234-400-21	CONDUCTOR, NETWORK (1005X4)			
RB115	1-234-400-21	CONDUCTOR, NETWORK (1005X4)			
		< VIBRATOR >			
X101	1-814-103-21	VIBRATOR, CRYSTAL (27MHz)			
**********					
		HEADPHONE BOARD			
		**********			
		< CAPACITOR >			
C777	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C778	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C779	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< JACK >			
J702	1-794-702-11	JACK, HEADPHONE (PHONES)			
		< FERRITE BEAD >			
R797	1-469-116-21	FERRITE, EMI (SMD) (1608)			
R798	1-469-116-21	FERRITE, EMI (SMD) (1608)			
R799	1-469-116-21	FERRITE, EMI (SMD) (1608)			
**********					
		HUB BOARD			
		**********			
		< CAPACITOR >			
C1500	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C1501	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C1502	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C1503	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V

Ref. No.	Part No.	Description			Remark
C1504	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C1505	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1506	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1507	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C1508	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C1510	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C1511	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1512	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C1513	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1514	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C1515	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1516	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1517	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C1518	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C1519	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C1520	1-126-204-11	ELECT CHIP	47uF	20%	16V
C1521	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1522	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C1523	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C1524	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C1525	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1526	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1527	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
CN1500	1-774-731-21	PIN, CONNECTOR (PC BOARD) 5P			
CN1501	1-774-729-21	PIN, CONNECTOR (PC BOARD) 10P			
CN1502	1-779-992-11	PIN, CONNECTOR (PWB) 8P			
		< EARTH TERMINAL >			
* ET1500	1-780-408-11	TERMINAL, LUG			
* ET1501	1-780-408-11	TERMINAL, LUG			
		< JUMPER RESISTOR >			
FB1500	1-216-295-91	SHORT CHIP	0		
FB1501	1-216-295-91	SHORT CHIP	0		
FB1502	1-216-295-91	SHORT CHIP	0		
FB1503	1-216-295-91	SHORT CHIP	0		
		< IC >			
IC13	6-714-034-01	IC USB2512A-AEZG			
IC1500	8-759-338-95	IC NJM2903V (TE2)			
		< RESISTOR/CAPACITOR >			
R1500	1-216-809-11	METAL CHIP	100	5%	1/10W
R1501	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1502	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1503	1-216-815-11	METAL CHIP	330	5%	1/10W
R1504	1-218-446-11	METAL CHIP	1	5%	1/10W
R1505	1-218-446-11	METAL CHIP	1	5%	1/10W
R1506	1-218-446-11	METAL CHIP	1	5%	1/10W
R1507	1-218-446-11	METAL CHIP	1	5%	1/10W
R1508	1-218-446-11	METAL CHIP	1	5%	1/10W
R1509	1-218-446-11	METAL CHIP	1	5%	1/10W
R1510	1-218-446-11	METAL CHIP	1	5%	1/10W
R1511	1-218-446-11	METAL CHIP	1	5%	1/10W
R1512	1-218-446-11	METAL CHIP	1	5%	1/10W
R1513	1-218-446-11	METAL CHIP	1	5%	1/10W
R1514	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1515	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1516	1-216-815-11	METAL CHIP	330	5%	1/10W
R1517	1-218-446-11	METAL CHIP	1	5%	1/10W
R1518	1-218-446-11	METAL CHIP	1	5%	1/10W
R1519	1-218-446-11	METAL CHIP	1	5%	1/10W
R1520	1-218-446-11	METAL CHIP	1	5%	1/10W
R1521	1-218-446-11	METAL CHIP	1	5%	1/10W
R1522	1-218-446-11	METAL CHIP	1	5%	1/10W
R1523	1-218-446-11	METAL CHIP	1	5%	1/10W
R1524	1-218-446-11	METAL CHIP	1	5%	1/10W
R1525	1-218-446-11	METAL CHIP	1	5%	1/10W
R1526	1-218-446-11	METAL CHIP	1	5%	1/10W
R1527	1-216-809-11	METAL CHIP	100	5%	1/10W
R1530	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1533	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1535	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
R1537	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1538	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1540	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1541	1-216-809-11	METAL CHIP	100	5%	1/10W
R1542	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1543	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1544	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1546	1-216-809-11	METAL CHIP	100	5%	1/10W
R1547	1-216-834-11	METAL CHIP	12K	5%	1/10W
R1549	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1550	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< VIBRATOR >			
X1500	1-760-613-21	VIBRATOR, CRYSTAL (24MHz)			

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	A-1660-520-A	MAIN BOARD, COMPLETE (GTZ2: E51)
	A-1660-525-A	MAIN BOARD, COMPLETE (GTZ3: E2, E51)
	A-1660-571-A	MAIN BOARD, COMPLETE (GTZ2i)
	A-1660-575-A	MAIN BOARD, COMPLETE (GTZ3i: AEP)
	A-1717-198-A	MAIN BOARD, COMPLETE (GTZ3i: UK)
	A-1717-201-A	MAIN BOARD, COMPLETE (GTZ3: E3)
	A-1717-204-A	MAIN BOARD, COMPLETE (GTZ3: AR)
	A-1717-950-A	MAIN BOARD, COMPLETE (GTZ2: MX)
	A-1718-045-A	MAIN BOARD, COMPLETE (GTZ3: MX)
		**********
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3

< CAPACITOR >

C101	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C102	1-126-963-11	ELECT	4.7uF	20%	50V
C105	1-112-514-91	CERAMIC CHIP	1500PF	5%	50V
C109	1-126-964-11	ELECT	10uF	20%	50V
C111	1-126-956-91	ELECT	0.1uF	20%	50V (GTZ3/GTZ3i)
C112	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GTZ3/GTZ3i)
C113	1-126-947-11	ELECT	47uF	20%	35V (GTZ3/GTZ3i)
C114	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GTZ3/GTZ3i)
C115	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C116	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C117	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C118	1-126-961-11	ELECT	2.2uF	20%	50V

Ref. No.	Part No.	Description			Remark
C119	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C120	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
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 (GTZ3/GTZ3i)
C124	1-126-960-11	ELECT	1uF	20%	50V
C127	1-136-498-81	FILM	0.12uF	5%	50V
C128	1-137-189-11	FILM	0.18uF	5%	50V
C129	1-126-961-11	ELECT	2.2uF	20%	50V
C131	1-126-964-11	ELECT	10uF	20%	50V
C132	1-136-161-00	FILM	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	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C139	1-135-834-91	CERAMIC CHIP	2.2uF		6.3V
C142	1-164-346-11	CERAMIC CHIP	1uF		16V
C143	1-164-346-11	CERAMIC CHIP	1uF		16V
C144	1-126-964-11	ELECT	10uF	20%	50V
C146	1-164-346-11	CERAMIC CHIP	1uF		16V
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	1-100-756-91	CERAMIC CHIP	0.047uF	10%	50V
C153	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C154	1-126-935-11	ELECT	470uF	20%	16V
C155	1-112-514-91	CERAMIC CHIP	1500PF	5%	50V
C169	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C177	1-137-189-11	FILM	0.18uF	5%	50V
C178	1-136-498-81	FILM	0.12uF	5%	50V
C179	1-126-961-11	ELECT	2.2uF	20%	50V
C180	1-126-960-11	ELECT	1uF	20%	50V
C181	1-126-964-11	ELECT	10uF	20%	50V
C182	1-136-161-00	FILM	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	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C192	1-164-346-11	CERAMIC CHIP	1uF		16V
C193	1-164-346-11	CERAMIC CHIP	1uF		16V
C194	1-126-964-11	ELECT	10uF	20%	50V
C201	1-126-961-11	ELECT	2.2uF	20%	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
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	1-107-903-11	ELECT	2.2uF	20%	50V (GTZ2: MX/GTZ3: MX)
C224	1-126-961-11	ELECT	2.2uF	20%	50V (GTZ2: E51/GTZ2i/GTZ3: E2, E3, E51, AR/GTZ3i)
C225	1-126-934-11	ELECT	220uF	20%	16V
C227	1-107-903-11	ELECT	2.2uF	20%	50V (GTZ2: MX/GTZ3: MX)
C227	1-126-961-11	ELECT	2.2uF	20%	50V (GTZ2: E51/GTZ2i/GTZ3: E2, E3, E51, AR/GTZ3i)

Ref. No.	Part No.	Description			Remark
C242	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C243	1-100-717-91	CERAMIC CHIP	1uF		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	1-107-903-11	ELECT	2.2uF	20%	50V (GTZ2: MX/GTZ3: MX)
C274	1-126-961-11	ELECT	2.2uF	20%	50V (GTZ2: E51/GTZ2i/GTZ3: E2, E3, E51, AR/GTZ3i)
C275	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C277	1-107-903-11	ELECT	2.2uF	20%	50V (GTZ2: MX/GTZ3: MX)
C277	1-126-961-11	ELECT	2.2uF	20%	50V (GTZ2: E51/GTZ2i/GTZ3: E2, E3, E51, AR/GTZ3i)
C281	1-162-913-11	CERAMIC CHIP	8PF	0.5PF	50V (GTZ3/GTZ3i)
C284	1-104-658-91	ELECT	100uF	20%	10V (GTZ3/GTZ3i)
C286	1-126-925-91	ELECT	470uF	20%	10V (GTZ3/GTZ3i)
C287	1-126-964-11	ELECT	10uF	20%	50V (GTZ3/GTZ3i)
C288	1-126-960-11	ELECT	1uF	20%	50V (GTZ3/GTZ3i)
C290	1-136-167-00	FILM	0.15uF	5%	50V (GTZ3/GTZ3i)
C292	1-126-960-11	ELECT	1uF	20%	50V (GTZ3/GTZ3i)
C293	1-100-717-91	CERAMIC CHIP	1uF		16V
C321	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C380	1-136-495-11	FILM	0.068uF	5%	50V (GTZ3/GTZ3i)
C382	1-136-495-11	FILM	0.068uF	5%	50V (GTZ3/GTZ3i)
C383	1-136-167-00	FILM	0.15uF	5%	50V (GTZ3/GTZ3i)
C410	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C411	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C414	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C416	1-104-655-91	ELECT	470uF	20%	6.3V
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
C464	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C483	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GTZ2: E51/GTZ3: E2, E3, E51)
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
C500	1-126-964-11	ELECT	10uF	20%	50V
C506	1-136-497-81	FILM	0.1uF	5%	50V (GTZ3/GTZ3i)
C507	1-136-497-81	FILM	0.1uF	5%	50V (GTZ3/GTZ3i)
C550	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C552	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C553	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C554	1-100-152-91	CERAMIC CHIP	100PF	5%	100V

Ref. No.	Part No.	Description			Remark
C555	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C556	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C602	1-128-548-11	ELECT	4700uF	20%	25V
C604	1-136-153-00	FILM	0.012uF	5%	50V
C605	1-136-153-00	FILM	0.012uF	5%	50V
C608	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C609	1-126-933-11	ELECT	100uF	20%	16V
C610	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C611	1-104-658-91	ELECT	100uF	20%	10V
C612	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C613	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C616	1-126-937-11	ELECT	4700uF	20%	16V
C617	1-136-153-00	FILM	0.012uF	5%	50V
C618	1-136-153-00	FILM	0.012uF	5%	50V
C620	1-128-949-31	ELECT	470uF	20%	16V
C621	1-165-733-31	ELECT	100uF	20%	25V
C623	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C624	1-128-950-21	ELECT	1000uF	20%	16V
C625	1-165-733-31	ELECT	100uF	20%	25V
C626	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C648	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C649	1-164-156-11	CERAMIC CHIP	0.1uF		25V (GTZ3/GTZ3i)
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
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
C695	1-126-956-91	ELECT	0.1uF	20%	50V
C696	1-126-960-11	ELECT	1uF	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	1-126-157-11	ELECT	10uF	20%	16V
C701	1-100-385-91	CERAMIC CHIP	0.47uF		25V
C702	1-100-158-91	CERAMIC CHIP	1000PF	5%	100V
C703	1-100-158-91	CERAMIC CHIP	1000PF	5%	100V
		< CONNECTOR >			
* CN110	1-564-506-11	PLUG, CONNECTOR 3P (GTZ3/GTZ3i)			
CN220	1-784-770-11	CONNECTOR, FFC 9P (GTZ2/GTZ3)			
CN220	1-568-830-11	CONNECTOR, FFC 11P (GTZ2i/GTZ3i)			
CN402	1-779-277-11	CONNECTOR, FFC (LIF (NON-ZIF)) 9P			
CN404	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN405	1-784-788-11	CONNECTOR, FFC 27P			
CN410	1-784-774-11	CONNECTOR, FFC 13P			
* CN470	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			
* CN478	1-573-094-11	SOCKET, CONNECTOR 13P (GTZ2/GTZ2i)			
CN479	1-573-095-11	SOCKET, CONNECTOR 15P (GTZ3/GTZ3i)			
* CN601	1-564-725-11	PIN, CONNECTOR (SMALL TYPE) 9P			
* CN690	1-564-506-11	PLUG, CONNECTOR 3P (GTZ2/GTZ2i)			
CN691	1-779-277-11	CONNECTOR, FFC (LIF (NON-ZIF)) 9P			
CN692	1-779-544-21	CONNECTOR, FFC (LIF (NON-ZIF)) 7P			
* CN693	1-564-518-11	PLUG, CONNECTOR 3P (GTZ3/GTZ3i)			
		< DIODE >			
D110	6-501-772-01	DIODE MAZ8130GMLS0 (GTZ3/GTZ3i)			
D116	6-500-848-01	DIODE MC2840-T112-1			
D201	6-500-848-01	DIODE MC2840-T112-1			
D202	6-501-817-01	DIODE MA2J1110GLS0			
D211	6-501-722-01	DIODE MAZ8043GMLS0			

Ref. No.	Part No.	Description	Remark
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	(GTZ2: E51/GTZ3: E2, E3, E51)
D501	6-501-817-01	DIODE MA2J1110GLS0 (GTZ3/GTZ3i)	
D601	6-500-360-01	DIODE D10XB20	
D607	6-500-335-01	DIODE MC2838-T112-1	
D608	6-501-726-01	DIODE MAZ8047GMLS0	
D610	6-500-522-21	DIODE 10EDB40-TB3	
D611	6-500-522-21	DIODE 10EDB40-TB3	
D612	6-500-522-21	DIODE 10EDB40-TB3	
D613	6-500-522-21	DIODE 10EDB40-TB3	
D620	6-502-272-01	DIODE RB055L-40TE25	
D621	6-502-272-01	DIODE RB055L-40TE25	
D623	6-500-522-21	DIODE 10EDB40-TB3	
D624	6-500-522-21	DIODE 10EDB40-TB3	
D628	6-501-817-01	DIODE MA2J1110GLS0	
D630	6-501-817-01	DIODE MA2J1110GLS0	
D651	6-500-522-21	DIODE 10EDB40-TB3	
D690	6-501-772-01	DIODE MAZ8130GMLS0	
D692	6-501-734-01	DIODE MAZ8056GMLS0	
D694	6-501-817-01	DIODE MA2J1110GLS0	
D700	6-500-522-21	DIODE 10EDB40-TB3	
D701	6-500-522-21	DIODE 10EDB40-TB3	
D702	6-500-522-21	DIODE 10EDB40-TB3	
		< IC >	
IC252	8-759-278-58	IC NJM4558V-TE2	
IC253	8-759-278-58	IC NJM4558V-TE2 (GTZ3/GTZ3i)	
IC401	A-1726-851-A	IC R5F3640DDFAR (for SERVICE)	
IC407	6-712-027-01	IC R2A15216FP	
IC602	6-713-032-01	IC KIA7809API-U/PF	
IC603	6-701-761-01	IC uPC3533AHF	
IC675	6-713-627-01	IC BR24S16FJ -WE2	
IC677	6-714-166-01	IC BD9701CP-V5	
IC678	6-714-167-01	IC BD9702CP-V5	
		< JACK >	
J120	1-815-045-11	JACK, PIN 2P (PC IN)	
		< TERMINAL BOARD >	
JK500	1-780-473-11	TERMINAL BOARD (SPEAKER) 1P (SUBWOOFER) (GTZ3/GTZ3i)	
		< JUMPER RESISTOR/CAPACITOR >	
JR103	1-216-864-11	SHORT CHIP 0	
JR104	1-216-864-11	SHORT CHIP 0	
JR105	1-216-864-11	SHORT CHIP 0	
JR123	1-100-597-91	CERAMIC CHIP 0.1uF 10% 25V	
JR403	1-216-864-11	SHORT CHIP 0	
JR404	1-216-296-11	SHORT CHIP 0	
JR406	1-216-864-11	SHORT CHIP 0	
JR409	1-216-864-11	SHORT CHIP 0	
JR411	1-216-864-11	SHORT CHIP 0	
JR412	1-216-864-11	SHORT CHIP 0	
JR634	1-216-296-11	SHORT CHIP 0	
JR635	1-216-296-11	SHORT CHIP 0	
JR636	1-216-296-11	SHORT CHIP 0	
JR637	1-216-864-11	SHORT CHIP 0	

Ref. No.	Part No.	Description		Remark
JR638	1-216-864-11	SHORT CHIP	0	
JR639	1-216-296-11	SHORT CHIP	0	
JR640	1-216-864-11	SHORT CHIP	0	
JR641	1-216-296-11	SHORT CHIP	0	
JR699	1-216-864-11	SHORT CHIP	0	
		< COIL >		
L600	1-457-747-11	COIL, CHOKE	100uH	
L622	1-457-752-11	COIL, CHOKE	47uH	
		< TRANSISTOR >		
Q110	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	(GTZ3/GTZ3i)
Q111	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	(GTZ3/GTZ3i)
Q112	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	(GTZ3/GTZ3i)
Q113	8-729-040-76	TRANSISTOR	KTA1273-Y-AT (GTZ3/GTZ3i)	
Q115	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	(GTZ3/GTZ3i)
Q431	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	(GTZ3/GTZ3i)
Q447	6-551-681-01	TRANSISTOR	RT1P431C-TP-1	
Q452	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	
Q500	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	(GTZ3/GTZ3i)
Q501	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	6-552-137-01	TRANSISTOR	2SA2166-T112-1W	
Q641	6-552-137-01	TRANSISTOR	2SA2166-T112-1W	
Q643	6-552-138-01	TRANSISTOR	2SC6053-T112-1F	
Q644	6-552-138-01	TRANSISTOR	2SC6053-T112-1F	
Q645	6-552-137-01	TRANSISTOR	2SA2166-T112-1W	
Q646	6-552-137-01	TRANSISTOR	2SA2166-T112-1W	
Q647	6-552-138-01	TRANSISTOR	2SC6053-T112-1F	
Q648	6-552-138-01	TRANSISTOR	2SC6053-T112-1F	
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	
Q672	8-729-038-28	TRANSISTOR	RT1N441C-TP-1	
Q673	8-729-038-28	TRANSISTOR	RT1N441C-TP-1	
Q674	8-729-038-28	TRANSISTOR	RT1N441C-TP-1	
Q675	6-551-451-01	TRANSISTOR	2SB1690TL	
Q676	6-551-451-01	TRANSISTOR	2SB1690TL	
Q677	6-551-451-01	TRANSISTOR	2SB1690TL	
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	8-729-032-94	TRANSISTOR	2SD1859TV2Q	
Q697	8-729-040-76	TRANSISTOR	KTA1273-Y-AT	
		< RESISTOR >		
R108	1-216-864-11	SHORT CHIP	0	
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
R116	1-216-809-11	METAL CHIP	100 5%	1/10W
R117	1-216-835-11	METAL CHIP	15K 5%	1/10W
R118	1-216-838-11	METAL CHIP	27K 5%	1/10W
R119	1-216-809-11	METAL CHIP	100 5%	1/10W
R120	1-216-838-11	METAL CHIP	27K 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	1-216-821-11	METAL CHIP	1K 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
R130	1-216-849-11	METAL CHIP	220K 5%	1/10W
R131	1-216-849-11	METAL CHIP	220K 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	1-216-823-11	METAL CHIP	1.5K 5%	1/10W
R138	1-216-841-11	METAL CHIP	47K 5%	1/10W
R144	1-216-820-11	METAL CHIP	820 5%	1/10W
R153	1-216-833-11	METAL CHIP	10K 5%	1/10W
⚠ R155	1-249-401-91	CARBON	47 5%	1/4W F (GTZ3/GTZ3i)
⚠ R156	1-249-401-91	CARBON	47 5%	1/4W F (GTZ3/GTZ3i)
⚠ R157	1-249-401-91	CARBON	47 5%	1/4W F (GTZ3/GTZ3i)
R158	1-216-845-11	METAL CHIP	100K 5%	1/10W (GTZ3/GTZ3i)
R159	1-216-821-11	METAL CHIP	1K 5%	1/10W (GTZ3/GTZ3i)
R165	1-216-829-11	METAL CHIP	4.7K 5%	1/10W (GTZ3/GTZ3i)
R166	1-216-829-11	METAL CHIP	4.7K 5%	1/10W (GTZ3/GTZ3i)
R167	1-216-829-11	METAL CHIP	4.7K 5%	1/10W (GTZ3/GTZ3i)
R177	1-216-821-11	METAL CHIP	1K 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	1-216-823-11	METAL CHIP	1.5K 5%	1/10W
R188	1-216-841-11	METAL CHIP	47K 5%	1/10W
R190	1-216-857-11	METAL CHIP	1M 5%	1/10W
R192	1-216-842-11	METAL CHIP	56K 5%	1/10W
R194	1-216-820-11	METAL CHIP	820 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
R204	1-216-839-11	METAL CHIP	33K 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

MAIN

Ref. No.	Part No.	Description			Remark
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
R218	1-216-833-11	METAL CHIP	10K	5%	1/10W
R220	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GTZ3/GTZ3i)
R220	1-218-707-11	METAL CHIP	4.3K	0.5%	1/10W (GTZ2/GTZ2i)
R221	1-216-817-11	METAL CHIP	470	5%	1/10W
R222	1-216-834-11	METAL CHIP	12K	5%	1/10W
R223	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GTZ2i/GTZ3i)
R223	1-216-826-11	METAL CHIP	2.7K	5%	1/10W (GTZ2: MX/GTZ3: MX)
R223	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GTZ2: E51/GTZ3: E2, E3, E51, AR)
R224	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GTZ2i/GTZ3i)
R224	1-216-826-11	METAL CHIP	2.7K	5%	1/10W (GTZ2: MX/GTZ3: MX)
R224	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GTZ2: E51/GTZ3: E2, E3, E51, AR)
R225	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GTZ2: E51/GTZ3: E2, E3, E51, AR)
R225	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (GTZ2: MX/GTZ2i/GTZ3: MX/GTZ3i)
R226	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GTZ2: E51/GTZ3: E2, E3, E51, AR)
R226	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (GTZ2: MX/GTZ2i/GTZ3: MX/GTZ3i)
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
R235	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R236	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R250	1-216-833-11	METAL CHIP	10K	5%	1/10W
R270	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GTZ3/GTZ3i)
R270	1-218-707-11	METAL CHIP	4.3K	0.5%	1/10W (GTZ2/GTZ2i)
R271	1-216-817-11	METAL CHIP	470	5%	1/10W
R272	1-216-834-11	METAL CHIP	12K	5%	1/10W
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	1-216-838-11	METAL CHIP	27K	5%	1/10W (GTZ3/GTZ3i)
R282	1-216-845-11	METAL CHIP	100K	5%	1/10W (GTZ3/GTZ3i)
R283	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (GTZ3/GTZ3i)
R284	1-216-832-11	METAL CHIP	8.2K	5%	1/10W (GTZ3/GTZ3i)
R285	1-216-841-11	METAL CHIP	47K	5%	1/10W (GTZ3/GTZ3i)
R286	1-216-841-11	METAL CHIP	47K	5%	1/10W (GTZ3/GTZ3i)
R288	1-216-841-11	METAL CHIP	47K	5%	1/10W (GTZ3/GTZ3i)
R289	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GTZ3/GTZ3i)
R291	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (GTZ3/GTZ3i)
R292	1-216-833-11	METAL CHIP	10K	5%	1/10W (GTZ3/GTZ3i)
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
R329	1-216-833-11	METAL CHIP	10K	5%	1/10W
R330	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
R381	1-216-835-11	METAL CHIP	15K	5%	1/10W
R390	1-216-833-11	METAL CHIP	10K	5%	1/10W
R391	1-216-833-11	METAL CHIP	10K	5%	1/10W
R392	1-216-811-11	METAL CHIP	150	5%	1/10W (GTZ3)
R392	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GTZ2i/GTZ3i)
R392	1-216-864-11	SHORT CHIP	0 (GTZ2)		
R393	1-216-811-11	METAL CHIP	150	5%	1/10W (GTZ3i: UK)
R393	1-216-815-11	METAL CHIP	330	5%	1/10W (GTZ3: E3)
R393	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GTZ2/GTZ3: E2, E51, MX, AR)
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
R398	1-216-809-11	METAL CHIP	100	5%	1/10W
R399	1-216-809-11	METAL CHIP	100	5%	1/10W
R404	1-216-809-11	METAL CHIP	100	5%	1/10W
R409	1-216-833-11	METAL CHIP	10K	5%	1/10W
R410	1-219-570-11	METAL CHIP	10M	5%	1/10W
R411	1-216-849-11	METAL CHIP	220K	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
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
R437	1-216-809-11	METAL CHIP	100	5%	1/10W
R438	1-216-809-11	METAL CHIP	100	5%	1/10W
R439	1-216-809-11	METAL CHIP	100	5%	1/10W
R440	1-216-809-11	METAL CHIP	100	5%	1/10W
R441	1-216-809-11	METAL CHIP	100	5%	1/10W
R450	1-216-809-11	METAL CHIP	100	5%	1/10W
R451	1-216-833-11	METAL CHIP	10K	5%	1/10W
R452	1-216-833-11	METAL CHIP	10K	5%	1/10W
R453	1-216-833-11	METAL CHIP	10K	5%	1/10W
R462	1-216-809-11	METAL CHIP	100	5%	1/10W
R463	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

Ref. No.	Part No.	Description			Remark
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 (GTZ2i/GTZ3i)
R476	1-216-809-11	METAL CHIP	100	5%	1/10W (GTZ2i/GTZ3i)
R481	1-216-821-11	METAL CHIP	1K	5%	1/10W
R483	1-216-837-11	METAL CHIP	22K	5%	1/10W (GTZ2: E51/GTZ3: E2, E3, E51)
R483	1-216-864-11	SHORT CHIP	0		(GTZ2: MX/GTZ2i/GTZ3: MX/GTZ3i)
R484	1-216-845-11	METAL CHIP	100K	5%	1/10W (GTZ2: E51/GTZ3: E2, E3, E51)
R490	1-216-821-11	METAL CHIP	1K	5%	1/10W
R491	1-216-821-11	METAL CHIP	1K	5%	1/10W
R492	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GTZ3i)
R492	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GTZ2i)
R492	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GTZ3)
R493	1-216-819-11	METAL CHIP	680	5%	1/10W (GTZ2: MX/GTZ3: MX)
R493	1-216-821-11	METAL CHIP	1K	5%	1/10W (GTZ2: E51/GTZ3: E2, E51, AR)
R493	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GTZ3: E3/GTZ3i: UK)
R493	1-216-864-11	SHORT CHIP	0 (GTZ2i/GTZ3i: 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
R501	1-216-837-11	METAL CHIP	22K	5%	1/10W
R502	1-216-821-11	METAL CHIP	1K	5%	1/10W
R503	1-216-837-11	METAL CHIP	22K	5%	1/10W
R505	1-216-811-11	METAL CHIP	150	5%	1/10W (GTZ3/GTZ3i)
R506	1-216-811-11	METAL CHIP	150	5%	1/10W (GTZ3/GTZ3i)
R507	1-216-811-11	METAL CHIP	150	5%	1/10W (GTZ3/GTZ3i)
R508	1-216-811-11	METAL CHIP	150	5%	1/10W (GTZ3/GTZ3i)
R513	1-216-821-11	METAL CHIP	1K	5%	1/10W (GTZ3/GTZ3i)
R554	1-216-797-11	METAL CHIP	10	5%	1/10W (GTZ3/GTZ3i)
R555	1-216-797-11	METAL CHIP	10	5%	1/10W (GTZ3/GTZ3i)
R556	1-216-797-11	METAL CHIP	10	5%	1/10W (GTZ3/GTZ3i)
R557	1-216-797-11	METAL CHIP	10	5%	1/10W (GTZ3/GTZ3i)
R575	1-216-864-11	SHORT CHIP	0 (GTZ2/GTZ3)		
R576	1-216-864-11	SHORT CHIP	0 (GTZ2/GTZ3)		
R601	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R602	1-216-820-11	METAL CHIP	820	5%	1/10W
R603	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R606	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R607	1-216-833-11	METAL CHIP	10K	5%	1/10W
R610	1-216-845-11	METAL CHIP	100K	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	1-216-817-11	METAL CHIP	470	5%	1/10W
R617	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R620	1-216-834-11	METAL CHIP	12K	5%	1/10W
R621	1-216-864-11	SHORT CHIP	0		
R622	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R623	1-216-833-11	METAL CHIP	10K	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
R633	1-216-837-11	METAL CHIP	22K	5%	1/10W
R634	1-216-837-11	METAL CHIP	22K	5%	1/10W
R635	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (GTZ2/GTZ2i)
R635	1-216-830-11	METAL CHIP	5.6K	5%	1/10W (GTZ3/GTZ3i)
R636	1-216-864-11	SHORT CHIP	0		
⚠ R637	1-215-890-51	METAL OXIDE	470	5%	2W F (GTZ2/GTZ2i)
⚠ R637	1-215-891-51	METAL OXIDE	680	5%	2W F (GTZ3/GTZ3i)
⚠ R638	1-215-890-51	METAL OXIDE	470	5%	2W F (GTZ2/GTZ2i)
⚠ R638	1-215-891-51	METAL OXIDE	680	5%	2W F (GTZ3/GTZ3i)
R639	1-216-809-11	METAL CHIP	100	5%	1/10W
R640	1-216-809-11	METAL CHIP	100	5%	1/10W
R641	1-216-821-11	METAL CHIP	1K	5%	1/10W
R642	1-216-841-11	METAL CHIP	47K	5%	1/10W
R643	1-216-821-11	METAL CHIP	1K	5%	1/10W
R644	1-216-841-11	METAL CHIP	47K	5%	1/10W
R645	1-216-821-11	METAL CHIP	1K	5%	1/10W
R646	1-216-821-11	METAL CHIP	1K	5%	1/10W
R647	1-216-841-11	METAL CHIP	47K	5%	1/10W
R648	1-216-841-11	METAL CHIP	47K	5%	1/10W
R649	1-216-821-11	METAL CHIP	1K	5%	1/10W
R650	1-216-841-11	METAL CHIP	47K	5%	1/10W
R651	1-216-821-11	METAL CHIP	1K	5%	1/10W
R652	1-216-841-11	METAL CHIP	47K	5%	1/10W
R653	1-216-821-11	METAL CHIP	1K	5%	1/10W
R654	1-216-821-11	METAL CHIP	1K	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
R661	1-216-857-11	METAL CHIP	1M	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
R669	1-216-851-11	METAL CHIP	330K	5%	1/10W
R670	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R671	1-216-833-11	METAL CHIP	10K	5%	1/10W
R672	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R675	1-216-833-11	METAL CHIP	10K	5%	1/10W
R677	1-216-821-11	METAL CHIP	1K	5%	1/10W
R678	1-216-821-11	METAL CHIP	1K	5%	1/10W
R679	1-216-821-11	METAL CHIP	1K	5%	1/10W
R680	1-216-821-11	METAL CHIP	1K	5%	1/10W
R681	1-216-821-11	METAL CHIP	1K	5%	1/10W
R682	1-216-817-11	METAL CHIP	470	5%	1/10W
⚠ R687	1-249-401-91	CARBON	47	5%	1/4W F
⚠ R688	1-249-401-91	CARBON	47	5%	1/4W F
⚠ R689	1-249-401-91	CARBON	47	5%	1/4W F

Ref. No.	Part No.	Description			Remark
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	1-216-817-11	METAL CHIP	470	5%	1/10W (GTZ2/GTZ2i)
R698	1-216-821-11	METAL CHIP	1K	5%	1/10W (GTZ3/GTZ3i)
R1153	1-216-821-11	METAL CHIP	1K	5%	1/10W (GTZ3/GTZ3i)
R1154	1-216-845-11	METAL CHIP	100K	5%	1/10W (GTZ3/GTZ3i)
R1155	1-216-845-11	METAL CHIP	100K	5%	1/10W (GTZ3/GTZ3i)
R1156	1-216-821-11	METAL CHIP	1K	5%	1/10W (GTZ3/GTZ3i)
R1157	1-216-827-11	METAL CHIP	3.3K	5%	1/10W (GTZ3/GTZ3i)
R1158	1-216-821-11	METAL CHIP	1K	5%	1/10W (GTZ3/GTZ3i)
		< RELAY >			
RY500	1-755-307-21	RELAY (GTZ3/GTZ3i)			
		< VIBRATOR >			
X401	1-760-252-12	VIBRATOR, 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
C707	1-124-257-00	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
C711	1-124-584-00	ELECT	100uF	20%	6.3V
C712	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C713	1-124-257-00	ELECT	2.2uF	20%	50V
C716	1-124-257-00	ELECT	2.2uF	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
C724	1-124-463-00	ELECT	0.1uF	20%	50V
		< DIODE >			
D700	6-501-579-01	DIODE MC2837			
		< IC >			
IC700	8-759-278-58	IC NJM4558V-TE2			
		< JACK >			
J700	1-822-757-11	JACK (LARGE TYPE) (MIC)			

Ref. No.	Part No.	Description			Remark
		< 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
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
		< VARIABLE RESISTOR >			
RV700	1-227-452-11	RES, VAR, CARBON 50K (MIC LEVEL)			
**********					
	A-1660-548-A	POWER AMP BOARD, COMPLETE (GTZ2: E51)			
	A-1660-551-A	POWER AMP BOARD, COMPLETE (GTZ2i)			
	A-1660-555-A	POWER AMP BOARD, COMPLETE (GTZ3)			
	A-1660-558-A	POWER AMP BOARD, COMPLETE (GTZ3i)			
	A-1717-946-A	POWER AMP BOARD, COMPLETE (GTZ2: MX)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
C803	1-137-840-11	ELECT (BLOCK)	2200uF	20%	63V
C804	1-137-840-11	ELECT (BLOCK)	2200uF	20%	63V
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 (GTZ3/GTZ3i)
C812	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C813	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (GTZ3/GTZ3i)
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 (GTZ3/GTZ3i)
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 (GTZ3/GTZ3i)
C826	1-128-560-11	ELECT	22uF	20%	100V (GTZ3/GTZ3i)
C826	1-128-562-11	ELECT	47uF	20%	100V (GTZ2/GTZ2i)
C827	1-128-560-11	ELECT	22uF	20%	100V (GTZ3/GTZ3i)
C827	1-128-562-11	ELECT	47uF	20%	100V (GTZ2/GTZ2i)
C829	1-104-658-91	ELECT	100uF	20%	10V
C830	1-126-961-11	ELECT	2.2uF	20%	50V
C832	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C833	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C834	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C835	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C837	1-136-497-81	FILM	0.1uF	5%	50V
C838	1-136-497-81	FILM	0.1uF	5%	50V

Ref. No.	Part No.	Description			Remark
C839	1-136-497-81	FILM	0.1uF	5%	50V
C840	1-136-497-81	FILM	0.1uF	5%	50V
C844	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C845	1-136-497-81	FILM	0.1uF	5%	50V (GTZ3/GTZ3i)
C846	1-136-497-81	FILM	0.1uF	5%	50V (GTZ3/GTZ3i)
		< CONNECTOR >			
* CN801	1-573-087-11	PIN, CONNECTOR 13P (GTZ2/GTZ2i)			
CN801	1-573-109-11	PIN, CONNECTOR 15P (GTZ3/GTZ3i)			
		< DIODE >			
D632	6-500-335-01	DIODE MC2838-T112-1			
D800	6-500-360-01	DIODE D10XB20			
D802	6-500-334-01	DIODE MC2836-T112-1			
D803	6-501-817-01	DIODE MA2J1110GLS0			
D807	6-501-817-01	DIODE MA2J1110GLS0			
D809	6-501-756-01	DIODE MAZ8091GMLS0			
D811	6-501-817-01	DIODE MA2J1110GLS0 (GTZ3/GTZ3i)			
		< EARTH TERMINAL >			
EP800	1-537-771-21	TERMINAL BOARD, GROUND			
EP802	1-537-771-21	TERMINAL BOARD, GROUND			
		< IC >			
⚠ IC800	6-600-562-01	IC STK433-100-E (GTZ2/GTZ2i)			
⚠ IC800	6-713-740-01	IC STK433-300-E (GTZ3/GTZ3i)			
		< TERMINAL BOARD >			
JK800	1-820-067-11	TERMINAL BOARD (SPEAKER)			(FRONT SPEAKER)
		< JUMPER RESISTOR >			
JR810	1-216-296-11	SHORT CHIP	0		
JR811	1-216-296-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q800	6-551-268-01	TRANSISTOR	2SC5625		
Q801	6-551-268-01	TRANSISTOR	2SC5625		
Q802	6-551-268-01	TRANSISTOR	2SC5625 (GTZ3/GTZ3i)		
Q803	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q804	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q806	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q807	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q808	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q809	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q811	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
		< RESISTOR/THERMISTOR >			
R630	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R631	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R804	1-216-811-11	METAL CHIP	150	5%	1/10W
R814	1-216-811-11	METAL CHIP	150	5%	1/10W
R817	1-216-811-11	METAL CHIP	150	5%	1/10W
R818	1-216-811-11	METAL CHIP	150	5%	1/10W
R821	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R822	1-216-821-11	METAL CHIP	1K	5%	1/10W (GTZ3/GTZ3i)
R823	1-216-823-11	METAL CHIP	1.5K	5%	1/10W

Ref. No.	Part No.	Description			Remark
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 (GTZ3/GTZ3i)
R827	1-216-822-11	METAL CHIP	1.2K	5%	1/10W (GTZ2/GTZ2i)
R827	1-218-457-11	METAL CHIP	910	5%	1/10W (GTZ3/GTZ3i)
R828	1-216-822-11	METAL CHIP	1.2K	5%	1/10W (GTZ2/GTZ2i)
R828	1-218-457-11	METAL CHIP	910	5%	1/10W (GTZ3/GTZ3i)
R829	1-216-817-11	METAL CHIP	470	5%	1/10W (GTZ3/GTZ3i)
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 (GTZ3/GTZ3i)
R834	1-216-821-11	METAL CHIP	1K	5%	1/10W
R835	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (GTZ3/GTZ3i)
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 (GTZ3/GTZ3i)
R848	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R849	1-216-839-11	METAL CHIP	33K	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
R852	1-216-817-11	METAL CHIP	470	5%	1/10W
R854	1-216-841-11	METAL CHIP	47K	5%	1/10W
R855	1-216-845-11	METAL CHIP	100K	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
R859	1-216-839-11	METAL CHIP	33K	5%	1/10W
R860	1-216-839-11	METAL CHIP	33K	5%	1/10W
⚠ R861	1-217-637-55	FUSIBLE	1	5%	1/4W F
⚠ R862	1-245-605-55	FUSIBLE	100	5%	1/4W F
R863	1-216-821-11	METAL CHIP	1K	5%	1/10W
⚠ R865	1-245-605-55	FUSIBLE	100	5%	1/4W F
R866	1-216-840-11	METAL CHIP	39K	5%	1/10W
R868	1-216-839-11	METAL CHIP	33K	5%	1/10W (GTZ3/GTZ3i)
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	1-216-841-11	METAL CHIP	47K	5%	1/10W
R882	1-216-845-11	METAL CHIP	100K	5%	1/10W
R883	1-216-821-11	METAL CHIP	1K	5%	1/10W
R884	1-216-841-11	METAL CHIP	47K	5%	1/10W
R885	1-216-842-11	METAL CHIP	56K	5%	1/10W (GTZ3/GTZ3i)
R887	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R888	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R889	1-216-839-11	METAL CHIP	33K	5%	1/10W (GTZ3/GTZ3i)
R890	1-216-837-11	METAL CHIP	22K	5%	1/10W (GTZ3/GTZ3i)
R891	1-216-845-11	METAL CHIP	100K	5%	1/10W
R892	1-216-845-11	METAL CHIP	100K	5%	1/10W
R900	1-216-797-11	METAL CHIP	10	5%	1/10W (GTZ3/GTZ3i)
R901	1-216-797-11	METAL CHIP	10	5%	1/10W (GTZ3/GTZ3i)
R902	1-216-797-11	METAL CHIP	10	5%	1/10W (GTZ3/GTZ3i)
R903	1-216-797-11	METAL CHIP	10	5%	1/10W (GTZ3/GTZ3i)
R904	1-804-045-11	THERMISTOR			
		< RELAY >			
RY800	1-755-307-21	RELAY			
		< JUMPER RESISTOR >			
TH801	1-216-864-11	SHORT CHIP	0		

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TRANS BOARD (GTZ3/GTZ3i)
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		< CAPACITOR >			
C903	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C904	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C908	1-128-553-11	ELECT	220uF	20%	63V
C909	1-126-964-11	ELECT	10uF	20%	50V
C910	1-126-968-11	ELECT	100uF	20%	50V
C911	1-126-767-11	ELECT	1000uF	20%	16V
C920	1-136-154-00	FILM	0.012uF	5%	50V
C921	1-136-154-00	FILM	0.012uF	5%	50V
C922	1-136-154-00	FILM	0.012uF	5%	50V
C923	1-136-154-00	FILM	0.012uF	5%	50V
C925	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C926	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C927	1-126-962-11	ELECT	3.3uF	20%	50V
		< CONNECTOR >			
CN901	1-691-961-11	PIN, CONNECTOR (PC BOARD) 3P			
* CN907	1-764-334-11	PIN, CONNECTOR 11P			
* CN908	1-564-509-11	PLUG, CONNECTOR 6P			
		< DIODE >			
D901	6-501-817-01	DIODE MA2J1110GLS0			
D906	6-501-796-01	DIODE MAZ8330GMLS0			
D908	6-500-522-21	DIODE 10EDB40-TB3			
D911	6-501-579-01	DIODE MC2837			
D912	6-501-579-01	DIODE MC2837			
D1210	6-500-335-01	DIODE MC2838-T112-1			
		< 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	1-443-927-21	TRANSFORMER, POWER (GTZ3: MX)			
⚠ PT902	1-443-928-21	TRANSFORMER, POWER (GTZ3: E2, E3, E51, AR)			
⚠ PT902	1-443-929-21	TRANSFORMER, POWER (GTZ3i)			
		< 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
R910	1-216-864-11	SHORT CHIP	0		
R911	1-216-864-11	SHORT CHIP	0		
R915	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R952	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠ R955	1-217-637-55	FUSIBLE	1	5%	1/4W F (GTZ3: MX/GTZ3i)
⚠ R955	1-219-124-55	FUSIBLE	0.68	5%	1/4W F (GTZ3: E2, E3, E51, AR)
R957	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< RELAY >			
⚠ RY901	1-755-334-11	RELAY, AC POWER			
		< SWITCH >			
⚠ S901	1-786-055-11	SELECTOR, VOLTAGE (VOLTAGE SELECTOR) (GTZ3: E2, E3, E51)			

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TRANS1S BOARD (GTZ2: E51)
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		< CAPACITOR >			
C903	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C904	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C908	1-128-553-11	ELECT	220uF	20%	63V
C909	1-126-964-11	ELECT	10uF	20%	50V
C910	1-126-968-11	ELECT	100uF	20%	50V
C911	1-126-767-11	ELECT	1000uF	20%	16V
C920	1-136-154-00	FILM	0.012uF	5%	50V
C921	1-136-154-00	FILM	0.012uF	5%	50V
C922	1-136-154-00	FILM	0.012uF	5%	50V
C923	1-136-154-00	FILM	0.012uF	5%	50V
C925	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C926	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C927	1-126-962-11	ELECT	3.3uF	20%	50V
		< CONNECTOR >			
CN901	1-691-961-11	PIN, CONNECTOR (PC BOARD) 3P			
* CN907	1-764-334-11	PIN, CONNECTOR 11P			
* CN908	1-564-509-11	PLUG, CONNECTOR 6P			
		< DIODE >			
D901	6-501-817-01	DIODE MA2J1110GLS0			
D906	6-501-796-01	DIODE MAZ8330GMLS0			
D908	6-500-522-21	DIODE 10EDB40-TB3			

Ref. No.	Part No.	Description			Remark
D911	6-501-579-01	DIODE MC2837			
D912	6-501-579-01	DIODE MC2837			
D1210	6-500-335-01	DIODE MC2838-T112-1			
		< 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	1-443-928-21	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
R910	1-216-864-11	SHORT CHIP	0		
R911	1-216-864-11	SHORT CHIP	0		
R915	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R952	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠ R955	1-217-637-55	FUSIBLE	1	5%	1/4W F
R957	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< RELAY >			
⚠ RY901	1-755-334-11	RELAY, AC POWER			
		< SWITCH >			
⚠ S901	1-786-055-11	SELECTOR, VOLTAGE (VOLTAGE SELECTOR)			
**********					
		TRANSX BOARD (GTZ2: MX/GTZ2i)			
		**********			
		< CAPACITOR >			
C903	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C904	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C908	1-128-553-11	ELECT	220uF	20%	63V
C909	1-126-964-11	ELECT	10uF	20%	50V
C910	1-126-968-11	ELECT	100uF	20%	50V
C911	1-126-767-11	ELECT	1000uF	20%	16V
C920	1-136-154-00	FILM	0.012uF	5%	50V
C921	1-136-154-00	FILM	0.012uF	5%	50V
C922	1-136-154-00	FILM	0.012uF	5%	50V
C923	1-136-154-00	FILM	0.012uF	5%	50V
C925	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C926	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V
C927	1-126-962-11	ELECT	3.3uF	20%	50V
		< CONNECTOR >			
* CN901	1-793-660-11	PIN, CONNECTOR (PC BOARD) 3P			
* CN907	1-764-334-11	PIN, CONNECTOR 11P			
* CN908	1-564-509-11	PLUG, CONNECTOR 6P			

Ref. No.	Part No.	Description			Remark
		< DIODE >			
D901	6-501-817-01	DIODE MA2J1110GLS0			
D906	6-501-796-01	DIODE MAZ8330GMLS0			
D908	6-500-522-21	DIODE 10EDB40-TB3			
D911	6-501-579-01	DIODE MC2837			
D912	6-501-579-01	DIODE MC2837			
D1210	6-500-335-01	DIODE MC2838-T112-1			
		< 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	1-443-927-21	TRANSFORMER, POWER (GTZ2: MX)			
⚠ PT902	1-443-929-21	TRANSFORMER, POWER (GTZ2i)			
		< 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
R910	1-216-864-11	SHORT CHIP	0		
R911	1-216-864-11	SHORT CHIP	0		
R915	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R952	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠ R955	1-217-637-55	FUSIBLE	1	5%	1/4W F
R957	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< RELAY >			
⚠ RY901	1-755-334-11	RELAY, AC POWER			
**********					
		USB BOARD			
		**********			
		< CAPACITOR >			
C1002	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C1003	1-126-176-11	ELECT	220uF	20%	10V
C1004	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1005	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C1006	1-126-176-11	ELECT	220uF	20%	10V
C1007	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN1000	1-819-866-11	CONNECTOR, USB (A) (USB B)			
CN1001	1-819-866-11	CONNECTOR, USB (A) (USB A)			
		< DIODE >			
D1000	6-502-513-01	LED 1L034PB12E0MTTZ1 (USB A)			
D1002	6-501-691-01	LED 1L434FV22D0TDF01 (USB B)			
D1003	6-502-513-01	LED 1L034PB12E0MTTZ1 (USB B)			

Ref. No.	Part No.	Description			Remark
D1004	6-501-579-01	DIODE MC2837			
D1005	6-501-579-01	DIODE MC2837			
D1006	6-501-579-01	DIODE MC2837			
D1007	6-501-579-01	DIODE MC2837			
D1008	6-501-579-01	DIODE MC2837			
D1009	6-501-579-01	DIODE MC2837			
D1011	6-501-743-01	DIODE MAZ8068GMLS0			
D1013	6-501-743-01	DIODE MAZ8068GMLS0			
D1015	6-501-743-01	DIODE MAZ8068GMLS0			
D1017	6-501-743-01	DIODE MAZ8068GMLS0			
D1018	6-501-743-01	DIODE MAZ8068GMLS0			
D1019	6-501-743-01	DIODE MAZ8068GMLS0			
		< JUMPER RESISTOR >			
JR101	1-216-296-11	SHORT CHIP	0		
JR102	1-216-864-11	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
R1008	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1009	1-216-821-11	METAL CHIP	1K	5%	1/10W
**********					
		VOLUME BOARD			
		**********			
		< RESISTOR >			
R1301	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1302	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< ROTARY ENCODER >			
S1300	1-480-581-11	ROTARY ENCODER (OPERATION DIAL)			
S1301	1-487-171-11	ROTARY ENCODER (MASTER VOLUME)			
**********					
		MISCELLANEOUS			
		**********			
106	A-1718-276-A	PANEL (GTL1) ASSY, DISPLAY			
107	1-829-040-11	WIRE (FLAT TYPE) (27 CORE)			
201	1-828-952-11	WIRE (FLAT TYPE) (9 CORE) (GTZ2/GTZ3)			
201	1-828-962-11	WIRE (FLAT TYPE) (11 CORE) (GTZ2i/GTZ3i)			
202	1-457-369-12	CORE, FERRITE			
205	1-693-759-11	TUNER (FM/AM) (GTZ2i/GTZ3i)			
205	1-693-764-22	TUNER (FM/AM) (GTZ2/GTZ3)			
⚠ 207	1-777-071-83	CORD, POWER (AEP, UK, E2, E3, E51)			
⚠ 207	1-829-387-11	CORD, POWER (AR)			
⚠ 207	1-829-627-11	POWER-SUPPLY CORD (MX)			
254	1-543-793-11	FILTER, CLAMP (FERRITE CORE)			
301	1-469-829-11	CORE, FERRITE			
304	1-828-311-11	WIRE (FLAT TYPE) (9 CORE)			
305	1-836-973-11	WIRE (FLAT TYPE) (7 CORE)			
306	1-828-975-11	WIRE (FLAT TYPE) (13 CORE)			
501	1-797-193-72	MECHANICAL, CD (DLM3A)			
⚠ 505	8-820-322-04	OPTICAL PICK-UP BLOCK (KHM-313CAB/C2RP) (Including sled motor, spindle motor)			
507	1-828-252-11	WIRE (FLAT TYPE) (24 CORE)			
⚠ F904	1-532-505-33	FUSE (T5AL/250V) (GTZ2/GTZ2i)			
⚠ F905	1-532-505-33	FUSE (T5AL/250V) (GTZ2/GTZ2i)			
⚠ F906	1-532-504-33	FUSE (T4AL/250V)			
⚠ F907	1-532-503-33	FUSE (T1.6AL/250V)			
⚠ F908	1-532-506-33	FUSE (T6.3AL/250V) (GTZ3/GTZ3i)			
⚠ F909	1-532-506-33	FUSE (T6.3AL/250V) (GTZ3/GTZ3i)			
M101	1-787-344-11	FAN, DC			
M102	1-763-372-11	FAN, DC (GTZ3/GTZ3i)			
⚠ PT901	1-445-601-11	POWER TRANSFORMER (GTZ3i)			
⚠ PT901	1-445-603-11	POWER TRANSFORMER (GTZ2: E51)			
⚠ PT901	1-445-605-11	POWER TRANSFORMER (GTZ3: MX)			
⚠ PT901	1-445-606-11	POWER TRANSFORMER (GTZ3: E2, E3, E51, AR)			
⚠ PT901	1-445-609-11	POWER TRANSFORMER (GTZ2i)			
⚠ PT901	1-445-610-11	POWER TRANSFORMER (GTZ2: MX)			
**********					
		ACCESSORIES			
		**********			
⚠	1-569-008-22	ADAPTOR, CONVERSION 2P (GTZ2/GTZ3: E2, E3, E51)			
⚠	1-770-019-71	ADAPTOR, CONVERSION PLUG 3P (GTZ3i: UK)			

Note: If wire (flat type) is replaced, install it after bending it in the same form as that before replacement.

HCD-GTZ2/GTZ2i/ GTZ3/GTZ3i

SONY

SERVICE MANUAL

Ver. 1.1 2009.08

AEP Model
HCD-GTZ2i/GTZ3i
UK Model
HCD-GTZ3i
E Model
HCD-GTZ2/GTZ3

SUPPLEMENT-1

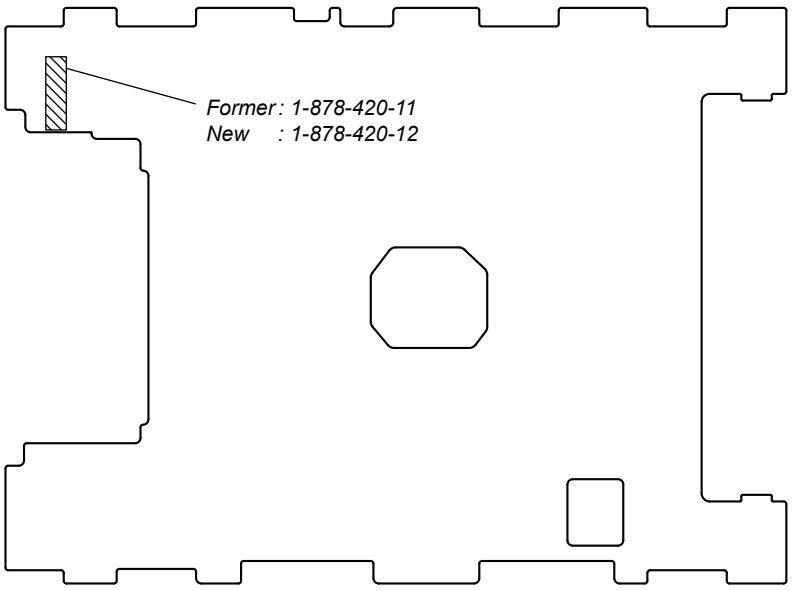
File this supplement with the service manual.

Subject: Change of DISPLAY board (Suffix-12)

In this set, DISPLAY board has been changed in the midway of production.
Printed wiring board, schematic diagram and electrical parts list of new type are described in this supplement-1.
Refer to original service manual for other information.

1. DISCRIMINATION

– DISPLAY Board (Component Side) –



9-889-506-81

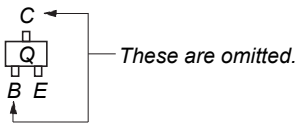
2. DIAGRAMS

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

For Printed Wiring Boards.

Note:

- o——: Parts extracted from the component side.
- ——: Parts extracted from the conductor side.
- : Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)
- Indication of transistor.



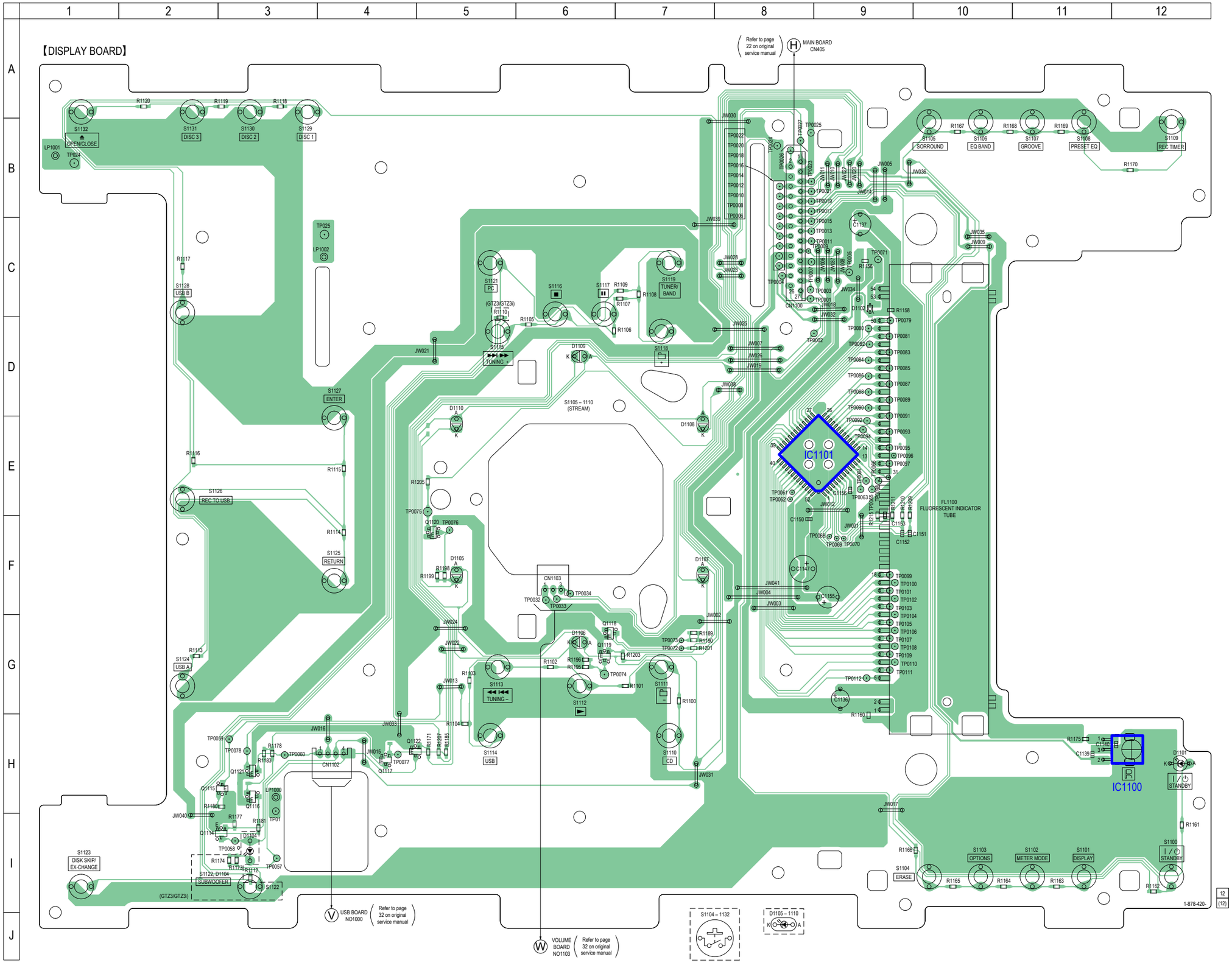
For Schematic Diagrams.

Note:

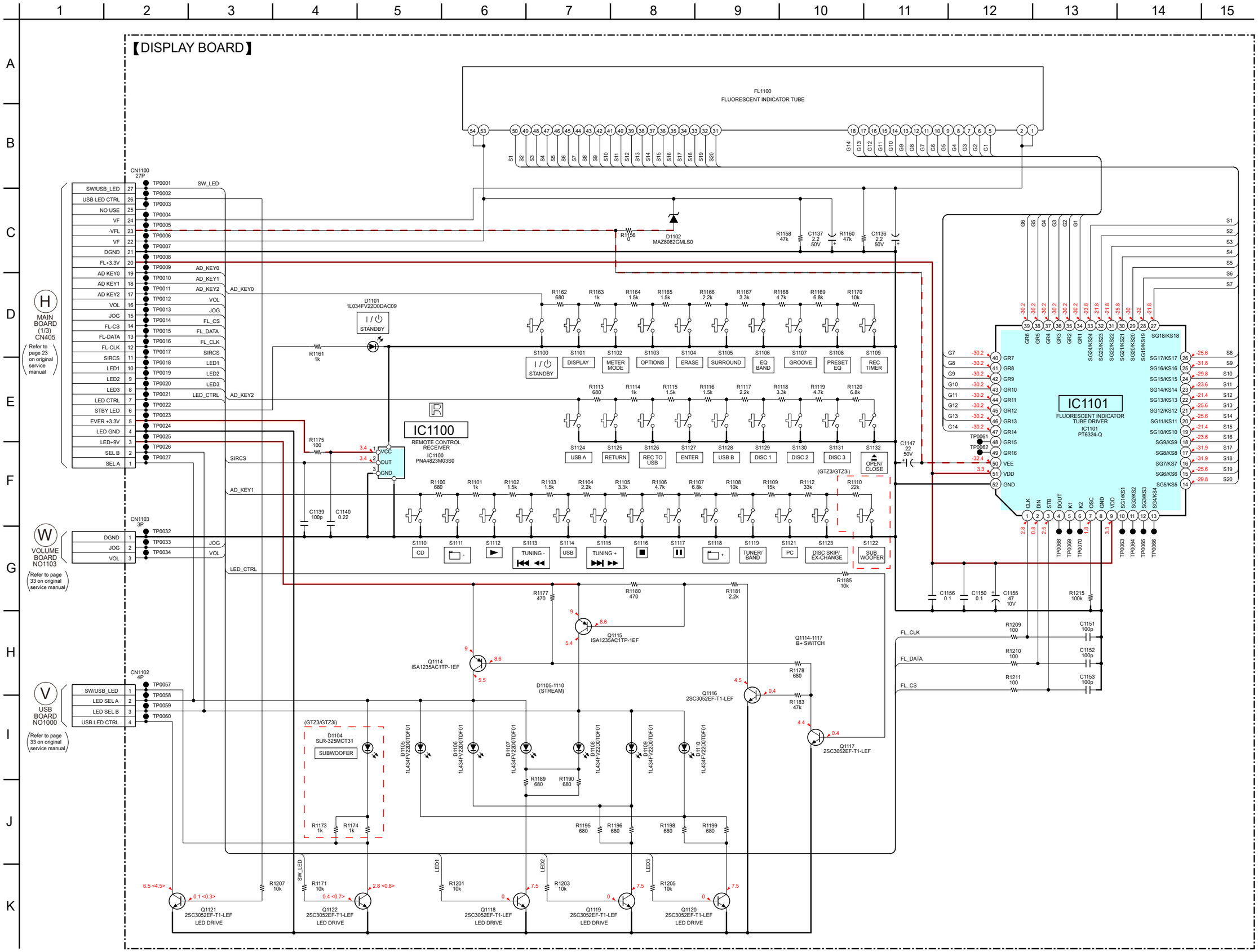
- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- : Panel designation.
- : B+ Line.
- : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: TUNER (FM/AM)
  < >: USB
- Voltages are taken with VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.

2-1. PRINTED WIRING BOARD - DISPLAY Board -

• : Uses unleaded solder.



2-2. SCHEMATIC DIAGRAM - DISPLAY Board -



3. ELECTRICAL PARTS LIST

DISPLAY

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.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- CAPACITORS
  uF: µF
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . , uPA. . , µPA. . ,
  uPB. . : µPB. . , uPC. . , µPC. . ,
  uPD. . : µPD. .

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
	A-1660-094-A	DISPLAY BOARD, COMPLETE (GTZ2/GTZ2i)			
	A-1711-928-A	DISPLAY BOARD, COMPLETE (GTZ3/GTZ3i)			
		**********			
		< CAPACITOR >			
C1136	1-126-961-11	ELECT	2.2uF	20%	50V
C1137	1-126-961-11	ELECT	2.2uF	20%	50V
C1139	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1140	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C1147	1-126-965-91	ELECT	22uF	20%	50V
C1150	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1151	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1152	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1153	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1155	1-126-947-11	ELECT	47uF	20%	35V
C1156	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN1100	1-784-788-11	CONNECTOR, FFC 27P			
CN1102	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN1103	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< DIODE >			
D1101	6-502-468-01	LED 1L034FV22D0DAC09 (I/⏻ STANDBY)			
D1102	6-501-752-01	DIODE MAZ8082GMLS0			
D1104	8-719-060-27	LED SLR-325MCT31 (SUBWOOFER)			(GTZ3/GTZ3i)
D1105	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)			
D1106	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)			
D1107	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)			
D1108	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)			
D1109	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)			
D1110	6-501-691-01	LED 1L434FV22D0TDF01 (STREAM)			
		< FLUORESCENT INDICATOR TUBE >			
FL1100	1-483-077-11	VACUUM FLUORESCENT DISPLAYS			
		< IC >			
IC1100	6-600-768-01	IC PNA4823M03S0			
IC1101	6-713-680-01	IC PT6324-Q			
		< TRANSISTOR >			
Q1114	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q1115	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
Q1116	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q1117	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q1118	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q1119	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q1120	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q1121	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
Q1122	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		
		< RESISTOR >			
R1100	1-216-819-11	METAL CHIP	680	5%	1/10W
R1101	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1102	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1103	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1104	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1105	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1107	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1108	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1109	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1110	1-216-837-11	METAL CHIP	22K	5%	1/10W (GTZ3/GTZ3i)
R1112	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1113	1-216-819-11	METAL CHIP	680	5%	1/10W
R1114	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1115	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1116	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1117	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1118	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1119	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1120	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1156	1-216-864-11	SHORT CHIP	0		
R1158	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1160	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1161	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1162	1-216-819-11	METAL CHIP	680	5%	1/10W
R1163	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1164	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1165	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1166	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1167	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1168	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1169	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1170	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1171	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1173	1-216-821-11	METAL CHIP	1K	5%	1/10W (GTZ3/GTZ3i)

DISPLAY

Ref. No.	Part No.	Description			Remark
R1174	1-216-821-11	METAL CHIP	1K	5%	1/10W (GTZ3/GTZ3i)
R1175	1-216-809-11	METAL CHIP	100	5%	1/10W
R1177	1-216-817-11	METAL CHIP	470	5%	1/10W
R1178	1-216-819-11	METAL CHIP	680	5%	1/10W
R1180	1-216-817-11	METAL CHIP	470	5%	1/10W
R1181	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1183	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1185	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1189	1-216-819-11	METAL CHIP	680	5%	1/10W
R1190	1-216-819-11	METAL CHIP	680	5%	1/10W
R1195	1-216-819-11	METAL CHIP	680	5%	1/10W
R1196	1-216-819-11	METAL CHIP	680	5%	1/10W
R1198	1-216-819-11	METAL CHIP	680	5%	1/10W
R1199	1-216-819-11	METAL CHIP	680	5%	1/10W
R1201	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1205	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1207	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1209	1-216-809-11	METAL CHIP	100	5%	1/10W
R1210	1-216-809-11	METAL CHIP	100	5%	1/10W
R1211	1-216-809-11	METAL CHIP	100	5%	1/10W
R1215	1-216-845-11	METAL CHIP	100K	5%	1/10W

< SWITCH >

S1100	1-771-410-21	SWITCH, TACTILE (I/⏻ STANDBY)
S1101	1-771-410-21	SWITCH, TACTILE (DISPLAY)
S1102	1-771-410-21	SWITCH, TACTILE (METER MODE)
S1103	1-771-410-21	SWITCH, TACTILE (OPTIONS)
S1104	1-771-410-21	SWITCH, TACTILE (ERASE)
S1105	1-771-410-21	SWITCH, TACTILE (SURROUND)
S1106	1-771-410-21	SWITCH, TACTILE (EQ BAND)
S1107	1-771-410-21	SWITCH, TACTILE (GROOVE)
S1108	1-771-410-21	SWITCH, TACTILE (PRESET EQ)
S1109	1-771-410-21	SWITCH, TACTILE (REC TIMER)
S1110	1-771-410-21	SWITCH, TACTILE (CD)
S1111	1-771-410-21	SWITCH, TACTILE (FOLDER –)
S1112	1-771-410-21	SWITCH, TACTILE (►)
S1113	1-771-410-21	SWITCH, TACTILE (TUNING –, I◄◄ ◄◄)
S1114	1-771-410-21	SWITCH, TACTILE (USB)
S1115	1-771-410-21	SWITCH, TACTILE (TUNING +, ►►I ►►)
S1116	1-771-410-21	SWITCH, TACTILE (■)
S1117	1-771-410-21	SWITCH, TACTILE (II)
S1118	1-771-410-21	SWITCH, TACTILE (FOLDER +)
S1119	1-771-410-21	SWITCH, TACTILE (TUNER/BAND)
S1121	1-771-410-21	SWITCH, TACTILE (PC)
S1122	1-771-410-21	SWITCH, TACTILE (SUBWOOFER) (GTZ3/GTZ3i)
S1123	1-771-410-21	SWITCH, TACTILE (DISC SKIP/EX-CHANGE)
S1124	1-771-410-21	SWITCH, TACTILE (USB A)
S1125	1-771-410-21	SWITCH, TACTILE (RETURN)
S1126	1-771-410-21	SWITCH, TACTILE (REC TO USB)
S1127	1-771-410-21	SWITCH, TACTILE (ENTER)
S1128	1-771-410-21	SWITCH, TACTILE (USB B)
S1129	1-771-410-21	SWITCH, TACTILE (DISC 1)
S1130	1-771-410-21	SWITCH, TACTILE (DISC 2)
S1131	1-771-410-21	SWITCH, TACTILE (DISC 3)
S1132	1-771-410-21	SWITCH, TACTILE (⏏ OPEN/CLOSE)

MEMO

REVISION HISTORY

Checking the version allows you to jump to the revised page.
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Ver.	Date	Description of Revision
1.0	2009.05	New
1.1	2009.08	Addition of Mexican model (HCD-GTZ2/GTZ3)
		Change of HP, MAIN, MIC, TRANS, TRANS1S, TRANSX, USB and VOLUME boards (Suffix-12)
		Change of DISPLAY board (Suffix-12) (SUPPLEMENT-1) (SMR-09036)