HCD-GTR33/GTR55/GTR77

SERVICE MANUAL

Ver. 1.0 2010.03

E Model

- HCD-GTR33 is the amplifier, USB, CD player, tuner and tape deck (only E4 model) section in MHC-GTR33.
- HCD-GTR55 is the amplifier, USB, CD player, tuner and tape deck (only E4 model) section in MHC-GTR55.
- HCD-GTR77 is the amplifier, USB, CD player, tuner and tape deck (only E4 model) section in MHC-GTR77.



Photo: HCD-GTR77 (E4 Model)

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CD Section	Model Name Using Similar Mechanism	HCD-GTZ4/GTZ4i/GTZ5
	CD Mechanism Type	CDM88BL-DVBU101
	Optical Pick-up Name	KHM-313CAB/C2NP
Tape Section (Only for E4 model)	Model Name Using Similar Mechanism	HCD-GT111/GT222/GT444/GT555
	Tape mechanism Type	CS-21SC-900TP

Amplifier section

MHC-GTR77

The following are measured at Mexican model: AC 127 V. 60 Hz

Other models:

AC 120 V, 220 V, 240 V, 50/60 Hz

Front/Satellite Speaker

Power Output (rated)

120 W + 120 W (at 6 Ω , 1 kHz, 1% THD)

Front Speaker

RMS output power (reference): 225 W + 225 W (per channel at 8 Ω , 1 kHz)

Satellite Speaker

RMS output power (reference): 100 W + 100 W (per channel at 24 Ω ,

1 kHz)

Subwoofer

RMS output power (reference): 130 W + 130 W (12 Ω . 100 Hz)

MHC-GTR55

The following are measured at Mexican model:

AC 127 V, 60 Hz

Other models:

AC 120 V, 220 V, 240 V, 50/60 Hz

Front Speaker

Power Output (rated):

110 W + 110 W (at 6 Ω , 1 kHz, 1% THD)

RMS output power (reference):

240 W + 240 W (per channel at 6 Ω , 1 kHz)

Subwoofer

RMS output power (reference): 240 W (6 Ω, 100 Hz)

MHC-GTR33

The following are measured at

Mexican model:

AC 127 V. 60 Hz Other models

AC 120 V, 220 V, 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): 165 W + 165 W (per channel at 6 Ω , 1 kHz)

Subwoofer

RMS output power (reference):

160 W (6 Ω, 100 Hz)

PC (AUDIO IN) L/R

Voltage 700 mV, impedance 47 kilohms

Sensitivity 1 mV, impedance 10 kilohms • (USB) port: Type A

Outputs

PHONES

Accepts headphones of 8 Ω or more

USB section

Supported bit rate

MP3 (MPEG 1 Audio Laver-3): 32 kbps - 320 kbps, VBR

WMA: 48 kbps – 192 kbps

AAC: 48 kbps – 320 kbps

Sampling frequencies MP3 (MPEG 1 Audio Layer-3):

32 kHz/44.1 kHz/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

Compact disc and digital audio system

SPECIFICATIONS Laser Diode Properties

Emission Duration: Continuous

Laser Output*: Less than 44.6 μW

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

Frequency response

20 Hz - 20 kHz

Signal-to-noise ratio More than 90 dB

Dynamic range

More than 88 dB

Tape deck section

(For African model only)

Recording system

4-track 2 channel, stereo

Tuner section

FM stereo, FM/AM superheterodyne tuner FM tuner section

Tuning range

North American models:

87.5 MHz - 108.0 MHz (100 kHz step) Other models:

87.5 MHz - 108.0 MHz (50 kHz step)

Antenna

FM lead antenna

Antenna terminals

75 ohms unbalanced

Intermediate frequency 10.7 MHz

AM tuner section

Tuning range

Pan American and Oceanian models: 530 kHz - 1,710 kHz (with 10 kHz tuning

531 kHz - 1.710 kHz (with 9 kHz tuning

Other models:

530 kHz - 1,610 kHz (with 10 kHz tuning

531 kHz - 1,602 kHz (with 9 kHz tuning

interval)

Antenna AM loop antenna, external antenna terminal

Intermediate frequency

450 kHz

General

Power requirements Oceanian model: AC 230 V - 240 V,

50/60 Hz

Mexican model: AC 127 V, 60 Hz Argentina model: AC 220 V, 50/60 Hz

Other models: AC 120 V, 220 V or

230 V - 240 V, 50/60 Hz, Adjustable with voltage selector

Power consumption

MHC-GTR77: 260 W

MHC-GTR55: 250 W MHC-GTR33: 280 W

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

231 mm × 361 mm × 429.5 mm

Mass (excl. speakers) (Approx.)

African and Pan Asian models HCD-GTR77/HCD-GTR55: 10.7 kg

HCD-GTR33: 10.5 kg Other models:

HCD-GTR77/HCD-GTR55: 10.2 kg HCD-GTR33: 10.0 kg Design and specifications are subject to change

Abbreviation

COMPACT DISC DECK RECEIVER

SONY

Sony Corporation 9-890-541-01

2010C08-1

Audio & Video Business Group

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Published by Sony EMCS (Malaysia) PG Tec

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 CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

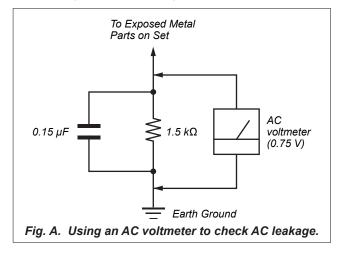
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.

Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



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.

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A 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.

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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

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 leadfree 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 $^{\circ}\text{C}.$

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

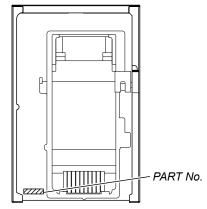
The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Releasing Procedure:

- 1. Press [I/the 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).
- 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/\(\d\ldot\) STANDBY] button.

MODEL IDENTIFICATION – Back Panel –



Model	Part No.
HCD-GTR33: E2, E51	4-164-386-0
HCD-GTR33: AR	4-164-386-1
HCD-GTR33: MX	4-164-386-2
HCD-GTR33: E4	4-164-386-4
HCD-GTR55: E2, E51	4-170-620-0
HCD-GTR55: AR	4-170-620-1
HCD-GTR55: MX	4-170-620-2
HCD-GTR55: E4	4-170-620-4
HCD-GTR77: E2, E51	4-170-621-0
HCD-GTR77: AR	4-170-621-1
HCD-GTR77: MX	4-170-621-2
HCD-GTR77: E4	4-170-621-4

Abbreviation

AR : Argentina model E2 : 120V AC area in E model

E4 : African model

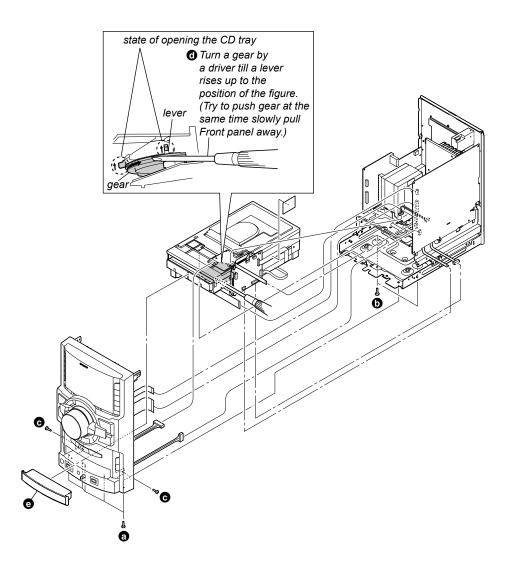
E51 : Chilean and Peruvian models

MX : Mexican model

HOW TO OPEN THE TRAY WHEN POWER SWITCH TURN OFF

Step: 1) Work after removing the case (side-R and side-L) referring to "2.2. CASE(SIDE-L/R)" on disassembly (page 5).

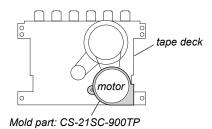
2) Work after removing the top case referring to "2-3. TOP CASE" on disassembly (page 6).



HOW TO DISTINGUISH TAPE MECHANISM DECK

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

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

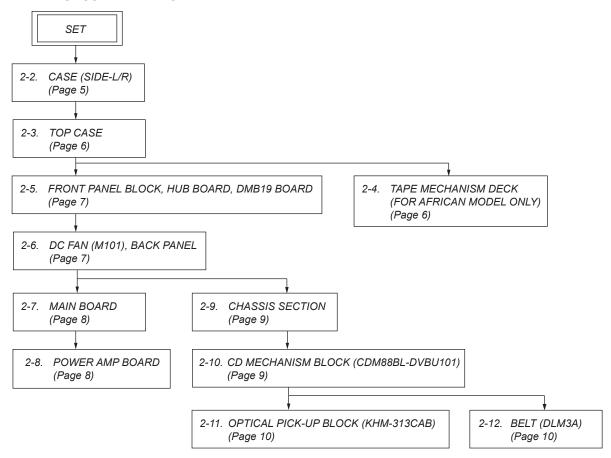


Tape Deck Name	Tape Deck Part No.	Belt Part No.
CS-21SC-900TP	1-797-575-11	2-688-621-01 BELT (R/F)
CS-215C-9001P		2-688-622-01 BELT (MAIN)

SECTION 2 DISASSEMBLY

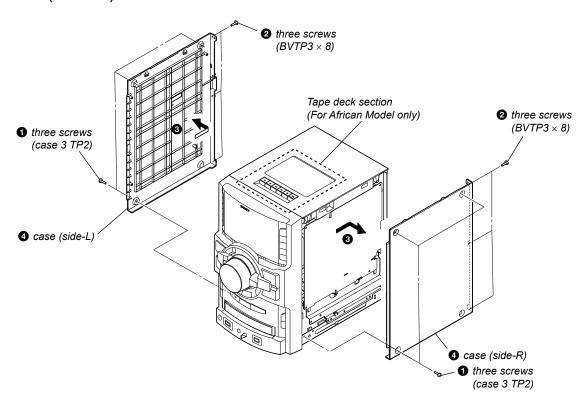
• This set can be disassembled in the order shown below.

2-1. DISASSEMBLY FLOW

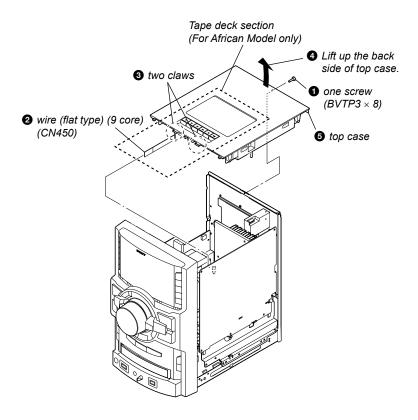


Note: Follow the disassembly procedure in the numerical order given.

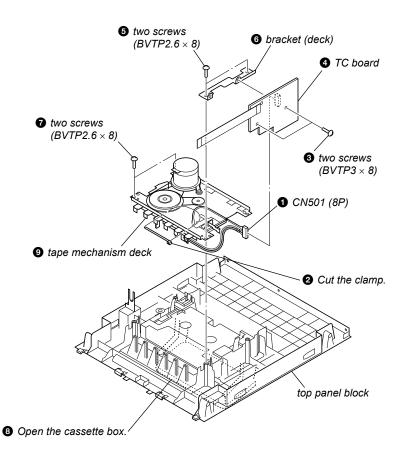
2-2. CASE (SIDE-L/R)



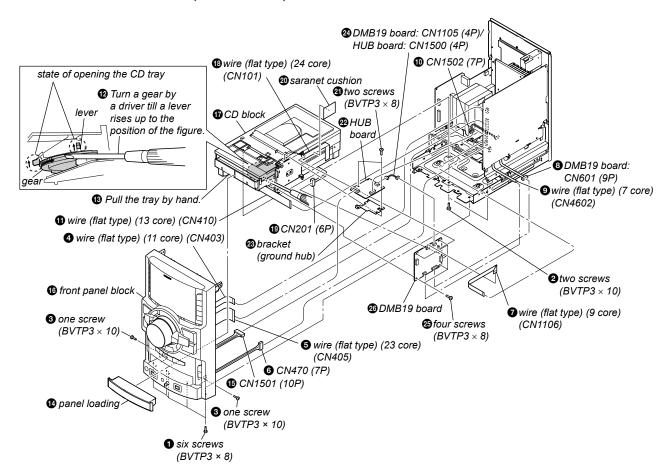
2-3. TOP CASE



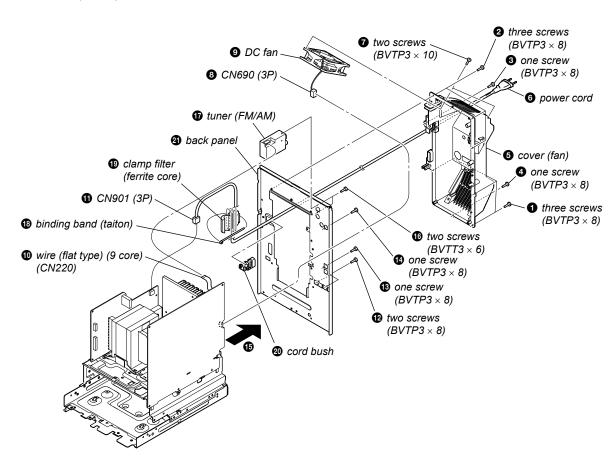
2-4. TAPE MECHANISM DECK (For African model only)



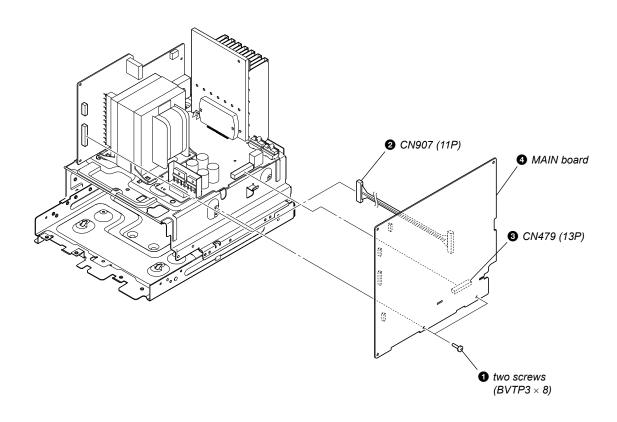
2-5. FRONT PANEL BLOCK, HUB BOARD, DMB19 BOARD



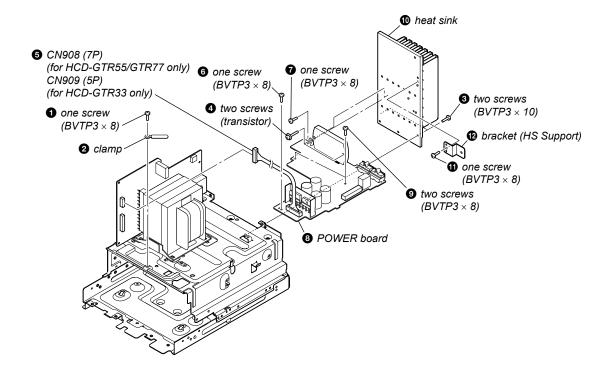
2-6. DC FAN (M101), BACK PANEL



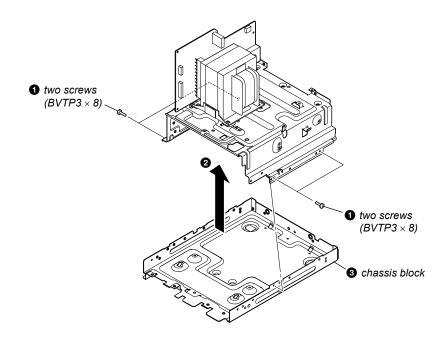
2-7. MAIN BOARD



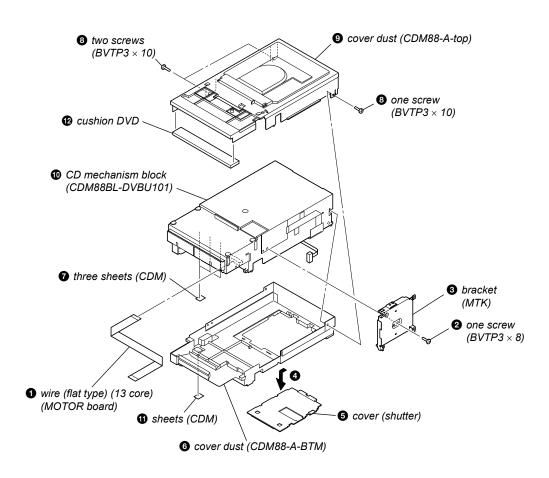
2-8. POWER BOARD



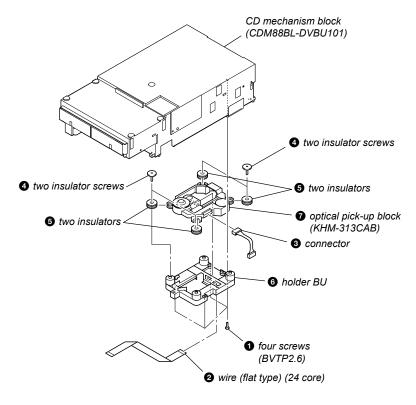
2-9. CHASSIS SECTION



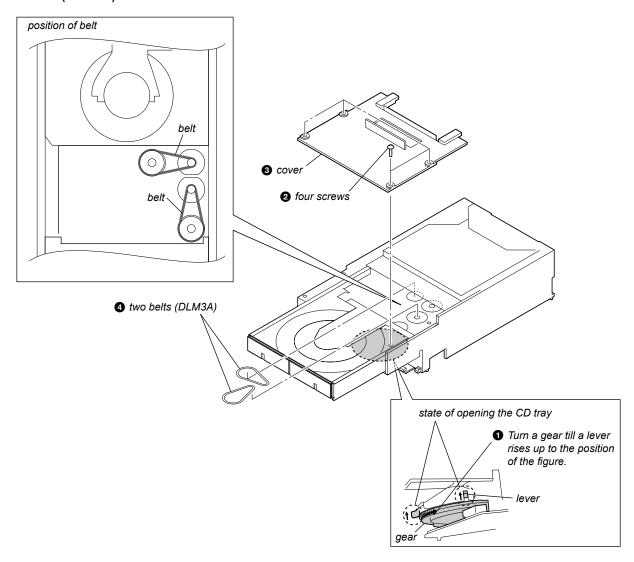
2-10. CD MECHANISM BLOCK (CDM88BL-DVBU101)



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:

- Press [■] button, [METER MODE] button and [DISC SKIP/ EX-CHANGE] button simultaneously.
- All LEDs and segments in fluorescent indicator tube are lighted up.
- When you want to enter to the software version display mode, press [DISC 1] button. The model information appears on the fluorescent indicator tube.
 - "GVX 1S" is shown for MHC-GTR33.
 - "GVX 3S" is shown for MHC-GTR55.
 - "GVX 4S" is shown for MHC-GTR77.

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, TC 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.
- In the key check mode, the fluorescent indicator tube displays "K 0 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 $0,1,2,3\dots$ if [MASTER VOLUME] knob is turned clockwise, or it decreases in the manner of $0,9,8,7\dots$ if [MASTER VOLUME] 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 Amplifier section.

Procedure:

To enter Common Test Mode

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

Check of Amplifier

 Press [EQ BAND/SURROUND] button repeatedly until a message "GEQ MAX" appears on the fluorescent indicator tube. GEQ increases to its maximum.

- Press [EQ BAND/SURROUND] button repeatedly until a message "GEQ MIN" appears on the fluorescent indicator tube. GEQ decreases to its minimum.
- 3. Press [EQ BAND/SURROUND] button repeatedly until a message "GEQ FLAT" appears on the fluorescent indicator tube. GEQ is set to flat.
- 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.
- 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

- 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/t] STANDBY] button to turn on the system.
- Press [■] button, [ENTER] button, and [I/() STANDBY] button simultaneously.
- "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.
- Press [■] button, [RETURN], and [DISPLAY] button simultaneously. The message "VACS OFF" or "VACS ON" appears on the fluorescent indicator tube.

TUNER STEP CHANGE

The step interval of AM channels can be toggled between 9 kHz and $10 \ \text{kHz}$.

Procedure:

- 1. Press [I/c 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] button and [I/O STANDBY] button simultaneously. The system turns on automatically. The message "AM 9K STEP" or "AM 10K STEP" appears on the fluorescent indicator tube and thus the channel step is changed.

CD 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 EE-PROM 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. Select CD function.
- 3. Press [■] button, [OPEN/CLOSE] button and [I/७ STAND-BY] button simultaneously. The system turns off automatically
- 4. After the "STANDBY" blinking display finishes, a message "MECHA LOCK" is displayed on the fluorescent indicator tube and the CD ship mode is set.

CD SHIP MODE (WITHOUT MEMORY CLEAR)

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

Procedure:

- 1. Press [I/ STANDBY] button to turn on the system.
- 2. Select CD function.
- Press [DISC SKIP/EX-CHANGE] button and [I/O STAND-BY] button simultaneously. The system turns off automatically.
- 4. After the "STANDBY" blinking display finishes, a message "MECHA LOCK" is displayed on the fluorescent indicator tube and the CD ship mode is set.

CD TRAY LOCK MODE

This mode let you lock the disc tray. When this mode is activated, the disc tray will not open when [OPEN/CLOSE] button or [DISC SKIP/EX-CHANGE] button is pressed. The message "LOCKED" will be displayed on the fluorescent indicator tube. This mode only applied when there is disc(s) on the tray.

Procedure:

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

FACTORY PRESET

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

Procedure:

- 1. Press [I/ STANDBY] button to turn on the system.
- Press [EQ BAND/SURROUND] button, [button, and [DISC 1] button simultaneously and the message "FACTO-RY" 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] button, [■] button and [ENTER] button simultaneously.
- 3. The fluorescent indicator tube displays "V0 AP0".
 - "V" represents Conventional VACS (Triggered by signal level) "AP" represents AP VACS (Abuse Protection Variable Attenuation Control System)
 - To release from VACS display mode

 To release from this mode, do the step (2) again.

METER SWITCH TOUCH COUNT DISPLAY

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

Procedure:

- 1. Press [I/ STANDBY] button to turn on the system.
- 2. Press [■] button, [ENTER] button and [DISPLAY] button simultaneously.
- 3. The fluorescent indicator tube displays "IxxxxxMyyyyy". "I" represents the Initial Switch touch.
 - "xxxxx" represents the total count of Initial Switch touch. (Maximum Value of "xxxxx" = 65535)
 - "M" represents the Max Switch touch."
 - "yyyyy" represents the total count of Max Switch touch. (Maximum Value of "yyyyy" = 65535)
 - To release from Meter Switch Touch Count Display Mode. To release from this mode, do the step (2) again. The fluorescent indicator tube displays "MODE OUT".

METER TEST MODE

This mode is used to check the meter device.

Procedure:

- 1. Press [I/t] STANDBY] button to turn on the system.
- Press [■] button, [ENTER] button and [METER MODE] button simultaneously.
- 3. Meter Backlight LEDs, Meter Pointer LEDs, Power Illuminator LEDs and fluorescent indicator tube are lighted up.
- 4. When you want to perform count total step from Initial Switch to Max Switch operation mode, press [▶▶ / ▶▶ / TUNING +] button. The meter pointer will move from Initial Switch to Max Switch and finally move back to the middle position. The total step count information appears on the fluorescent indicator tube. "xxx STP yy" is shown.

"xxx" represents the total step.

(Value of "xxx" should between 430 steps to 470 steps)

"yy" represents the status of total step count.

(If total step between 430 steps to 470 steps, "yy" is OK, Else "yy" is NG)

5. When you want to perform count total step from Max Switch to Initial Switch operation mode, press [◄◄ / ◄◄ / TUNING –] button. The meter pointer will move from Max Switch to Initial Switch and finally move back to the middle position. The total step count information appears on the fluorescent indicator tube. "xxx STP yy" is shown.

"xxx" represents the total step.

(Value of "xxx" should between 430 steps to 470 steps)

"yy" represents the status of total step count.

(If total step between 430 steps to 470 steps, "yy" is OK, else "yy" is NG)

• To release from Meter Test Mode.

To release from this mode, do the step (2) again.

The fluorescent indicator tube displays "TST MODE OUT".

CDM AGING MODE

This mode is used to display the total count of all disc playing. **Procedure:**

- 1. Press [I/(¹) STANDBY] button to turn on the system.
- 2. Select CD function and All DISC play mode
- 3. Put discs on all trays and close the tray.
- 4. Press [GROOVE] button, [■] button and [RETURN] button simultaneously.
- The fluorescent indicator tube displays Aging Display "AG xxxx/yyyy".

"xxxx" represents the error counter

(Maximum Value of "xxxx" = 9999)

"yyyyy" represents the cycle counter (Maximum Value of "yyyy" = 9999)

6. Press [◄ / I / TUNING –] or [► / ► / TUNING +] to search for Aging History Error Display

The fluorescent indicator tube displays "Mx E1E2E3E4".

x: error history number

E1: Loading sequence JCP high

E2: Loading sequence JCP low

E3: Loading operation JCP

E4: Cam position operation JCP

- 7. Press [RETURN] to Aging Display
 - To release from CDM Aging Mode.

To release from this mode, press [I/1 STANDBY] button or perform COLD RESET operation.

SECTION 4 MECHANICAL ADJUSTMENTS

(For African model only) PRECAUTION

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

record/playback head pinch roller rubber belts capstan idlers

- Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head magnetizer close to the erase head.)
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

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

• Tape Tension Measurement

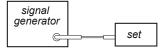
Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 80 g (more than 2.82 oz)

HCD-GTR33/GTR55/GTR77

SECTION 5 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.



0dB = 0.775V

(For African model only)

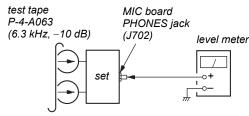
- Demagnetize the record/playback head with a head demagnetizer
- 2. Do not use a magnetized screwdriver for the adjustments.

TEST TAPE

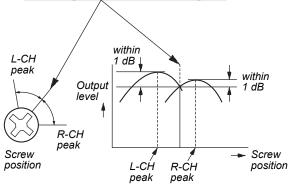
Tape	Signal	Used for
P-4-A063	6.3 kHz, -10 dB	Azimuth Adjustment

RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT Procedure:

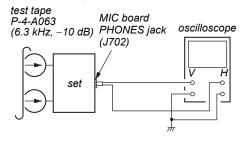
1. Mode: Playback

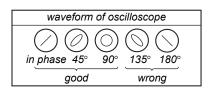


Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



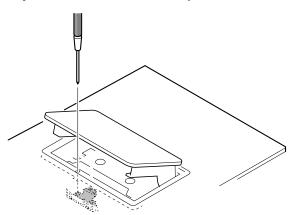
3. Mode: Playback



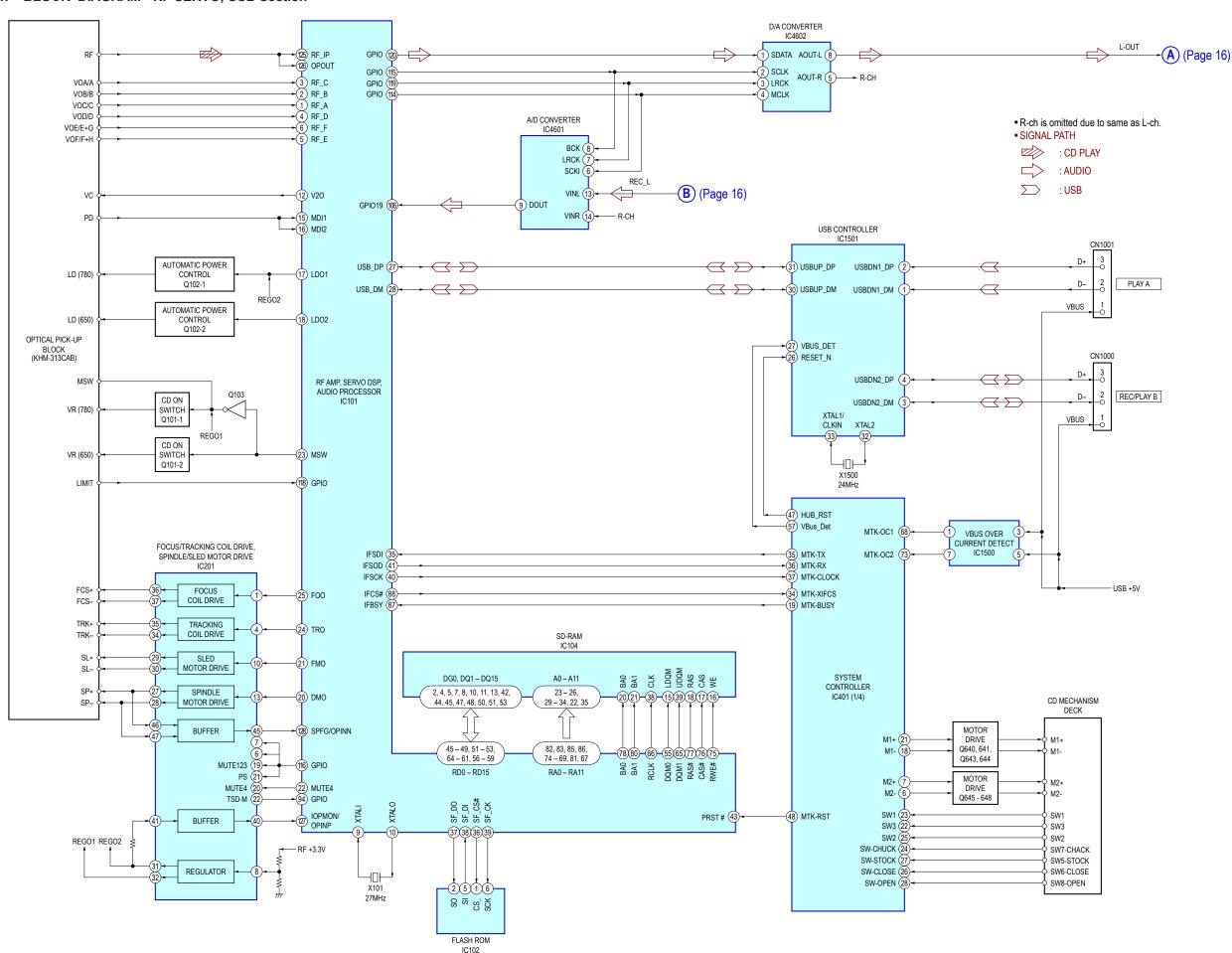


 After the adjustments, apply suitable locking compound to the pats adjusted.

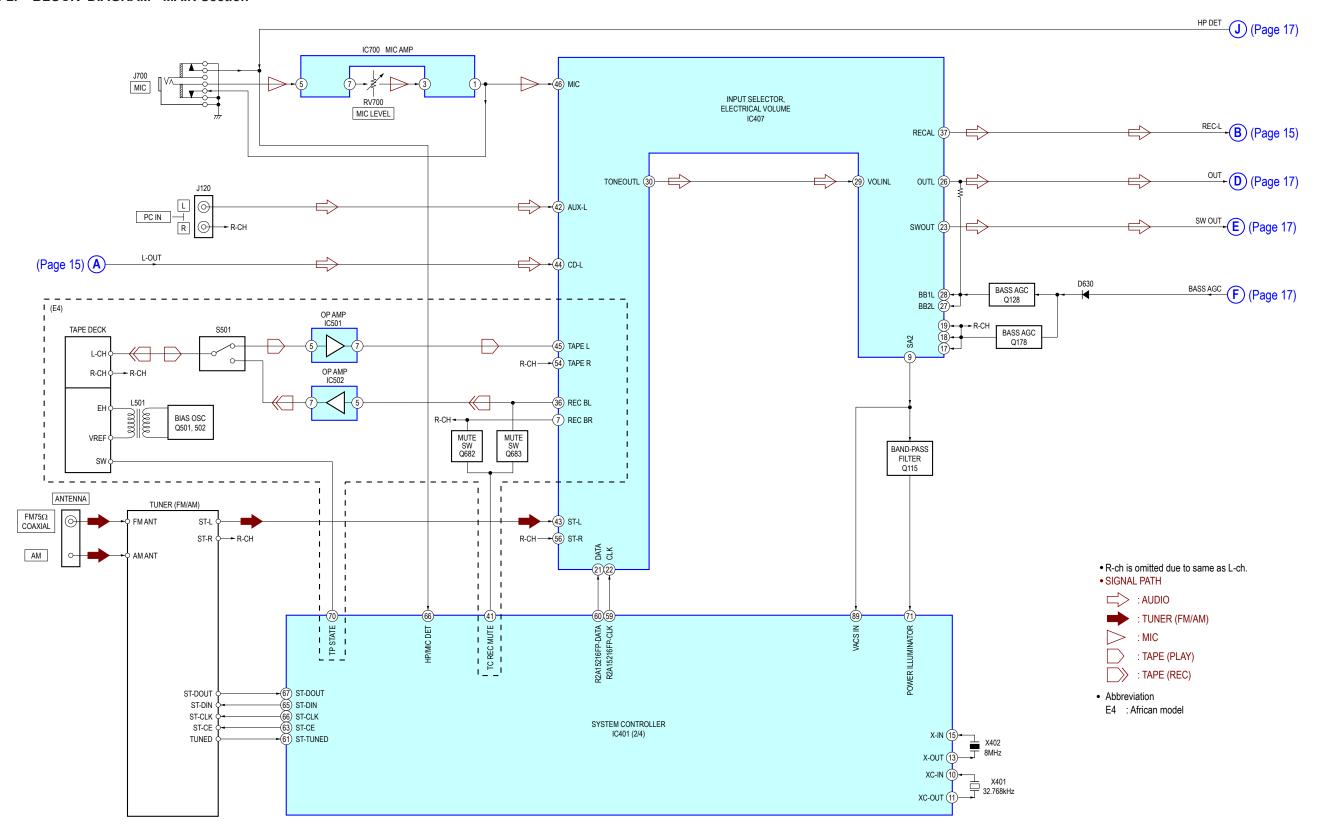
Adjustment Location: Record/Playback/Erase Head



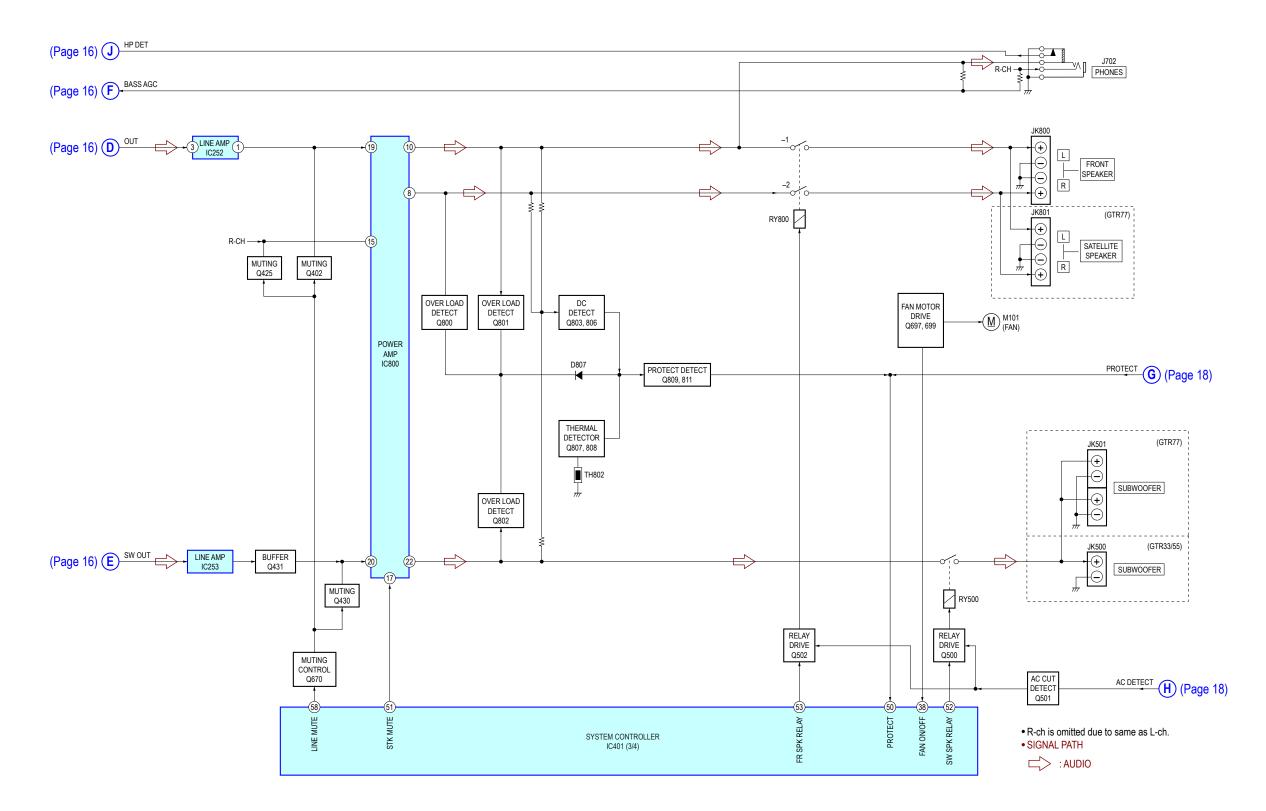
6-1. BLOCK DIAGRAM - RF SERVO, USB Section -



6-2. BLOCK DIAGRAM - MAIN Section -

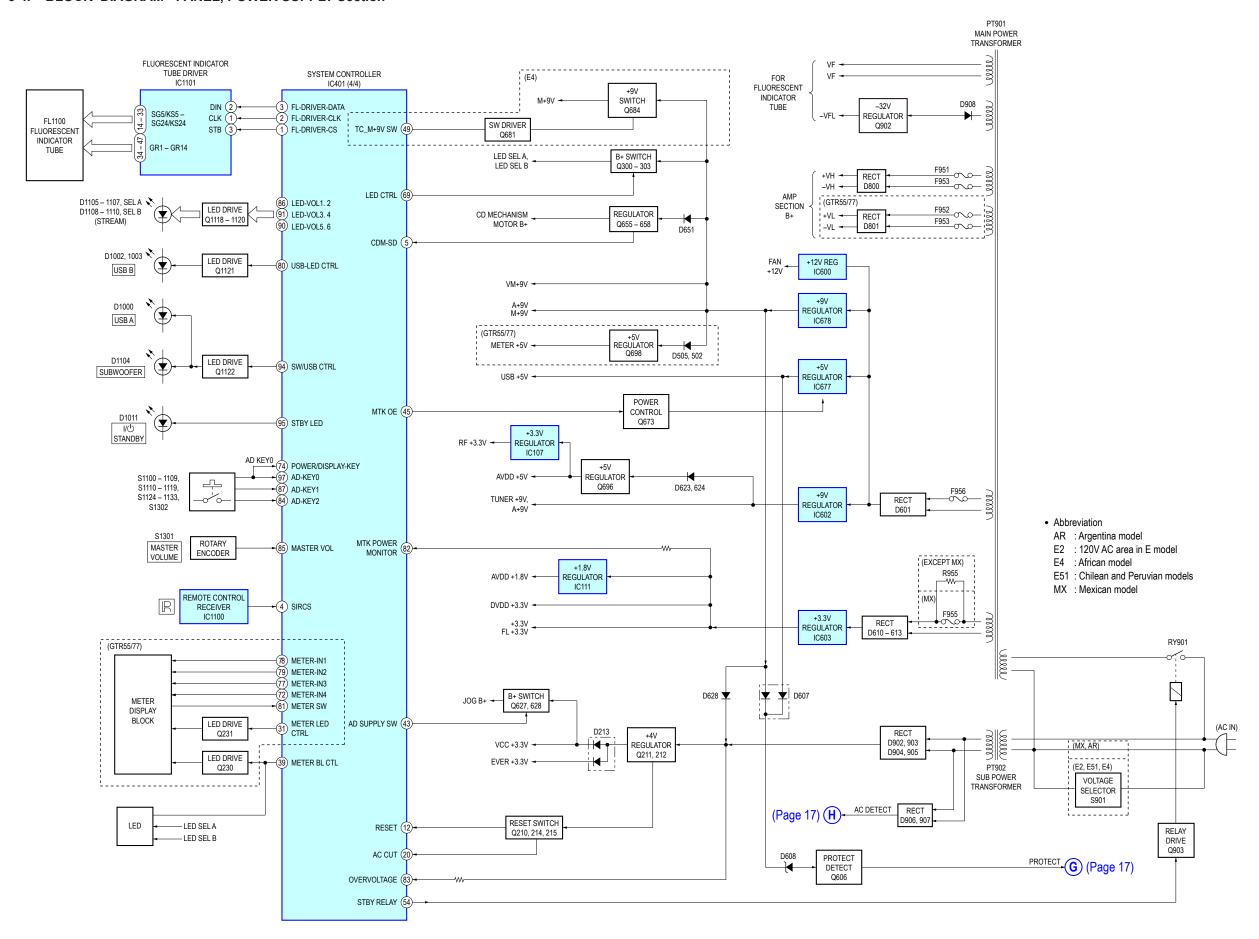


6-3. BLOCK DIAGRAM - AMP Section -



17

6-4. 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.)

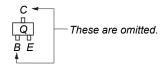
Caution:

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

Caution:

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

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





• Abbreviation

: Argentina model AR

E2 : 120V AC area in E model

: African model F4

E51 : Chilean and Peruvian models

MX : Mexican model

For Schematic Diagrams.

- 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 \triangle or dotted line with mark \triangle 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.
- TC Board -

no mark: TAPE PLAY): TAPE REC - Other Boards -

no mark: TUNER (FM/AM)

): CD PLAY << >> : TAPE PLAY]: TAPE REC > : USB

: Impossible to measure

- Voltages are taken with VOM (Input impedance 10 $M\Omega$). 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.

 \Rightarrow : AUDIO

: TUNER (FM/AM) : TAPE PLAY : TAPE REC

 \triangleright : MIC : CD PLAY : DIGITAL : USB

 Abbreviation AR

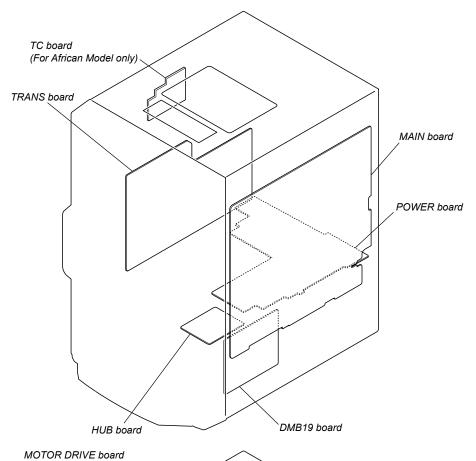
: Argentina model : 120V AC area in E model E2

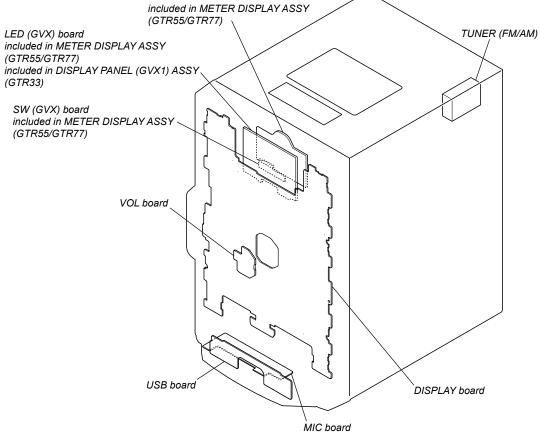
E4 : African model

: Chilean and Peruvian models E51

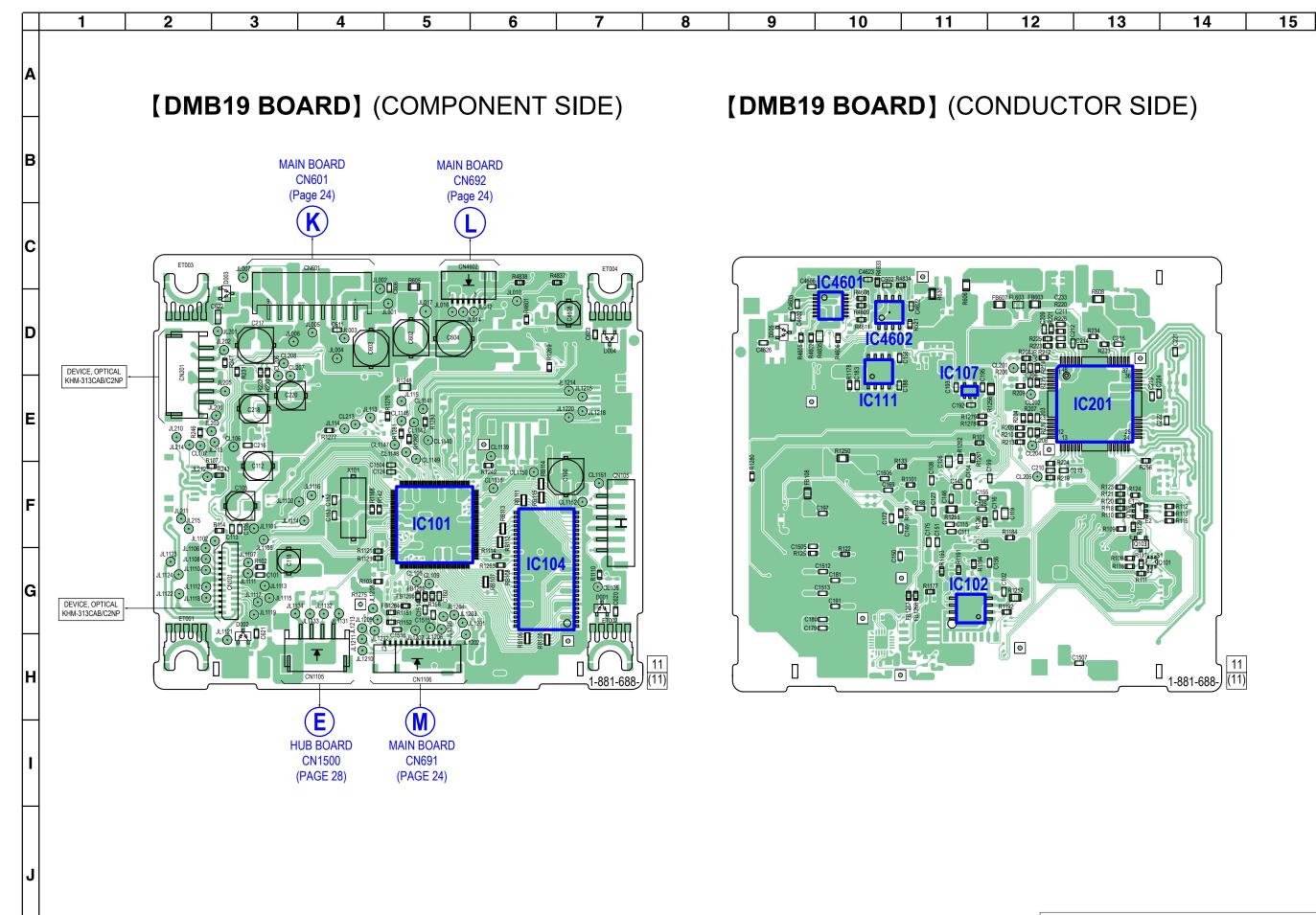
: Mexican model

Circuit Boards Location

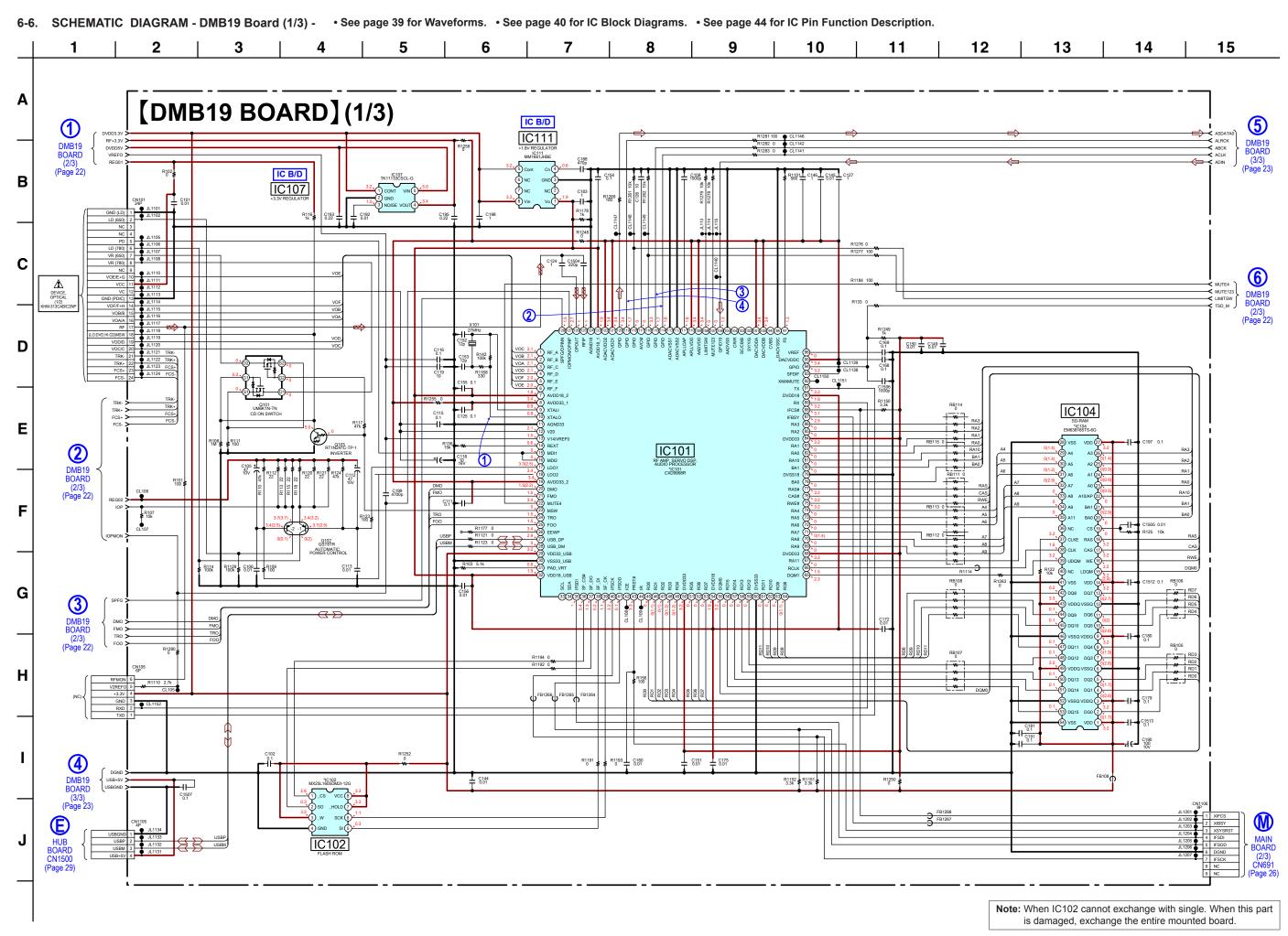


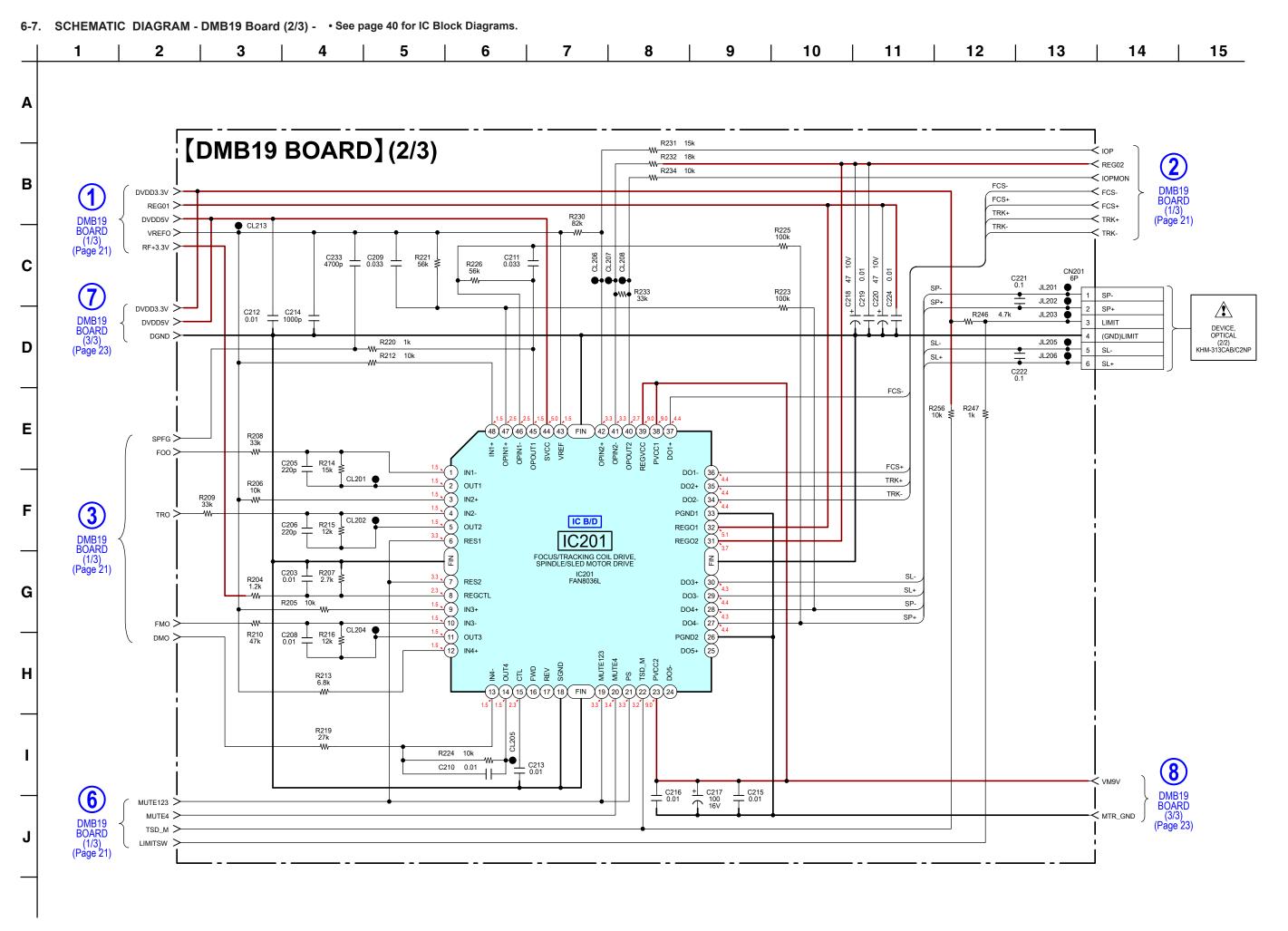


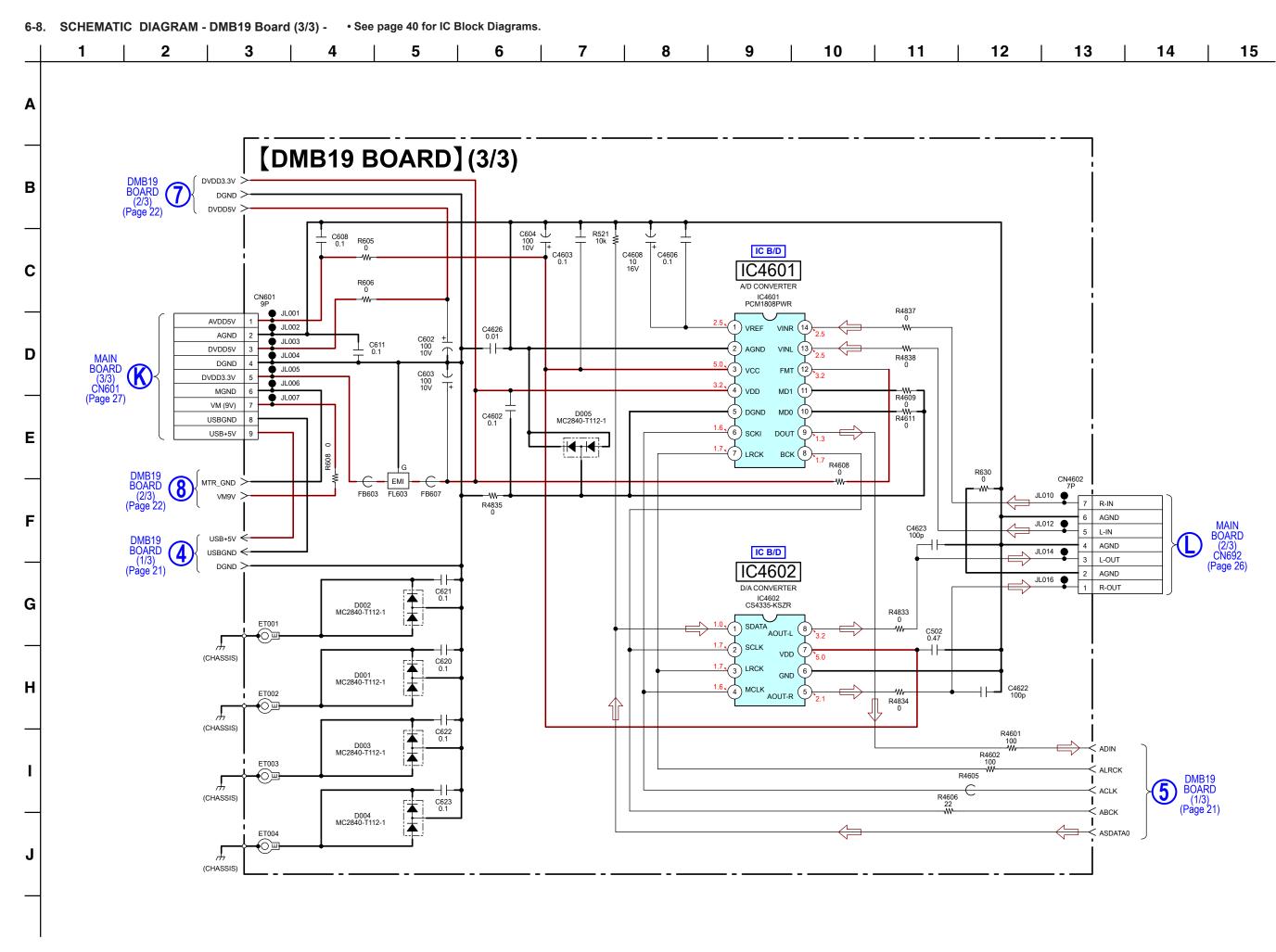
6-5. PRINTED WIRING BOARD - DMB19 Board - • See page 19 for Circuit Boards Location. • 🖅 : Uses unleaded solder.



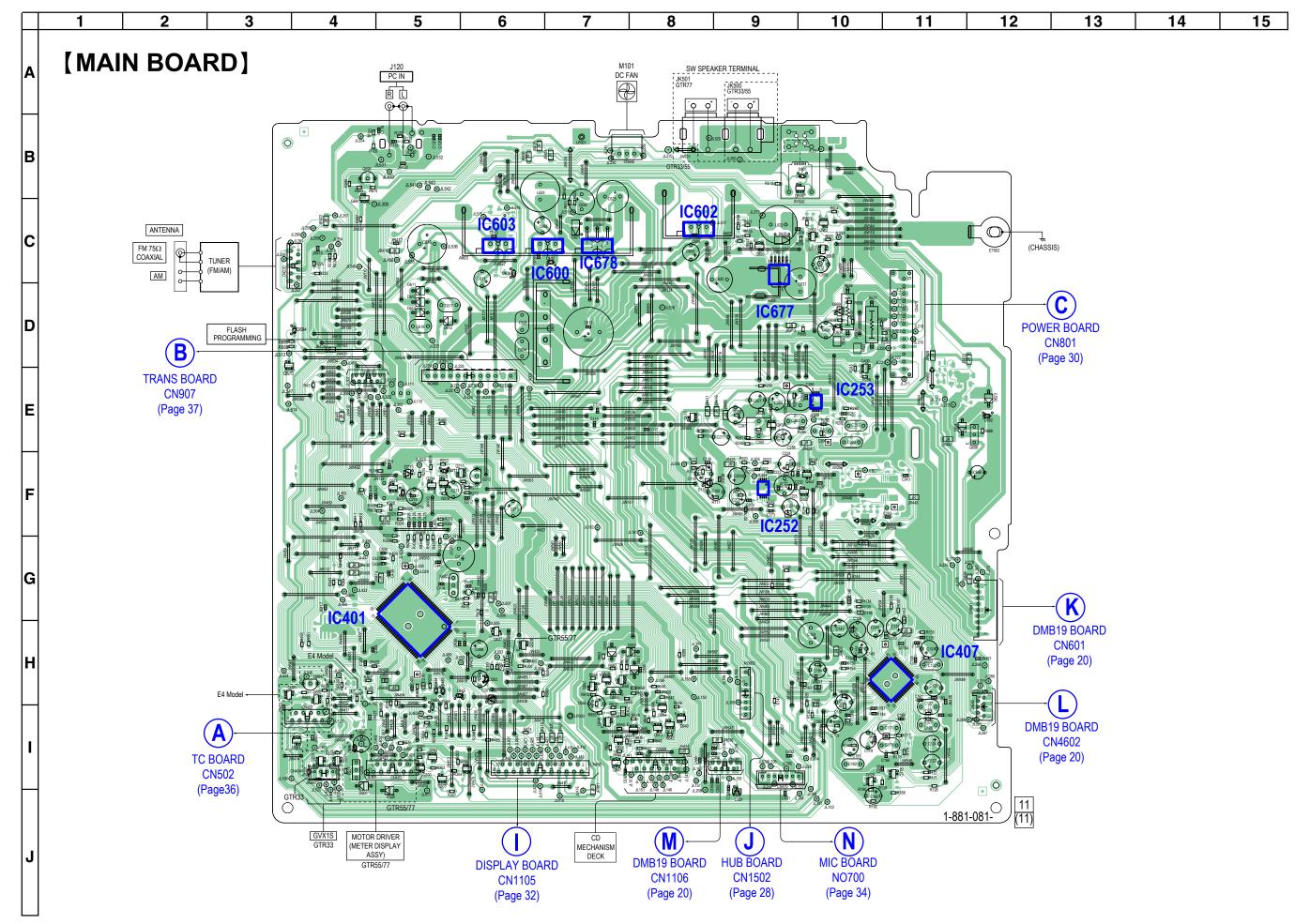
Note: When IC102 cannot exchange with single. When this part is damaged, exchange the entire mounted board.

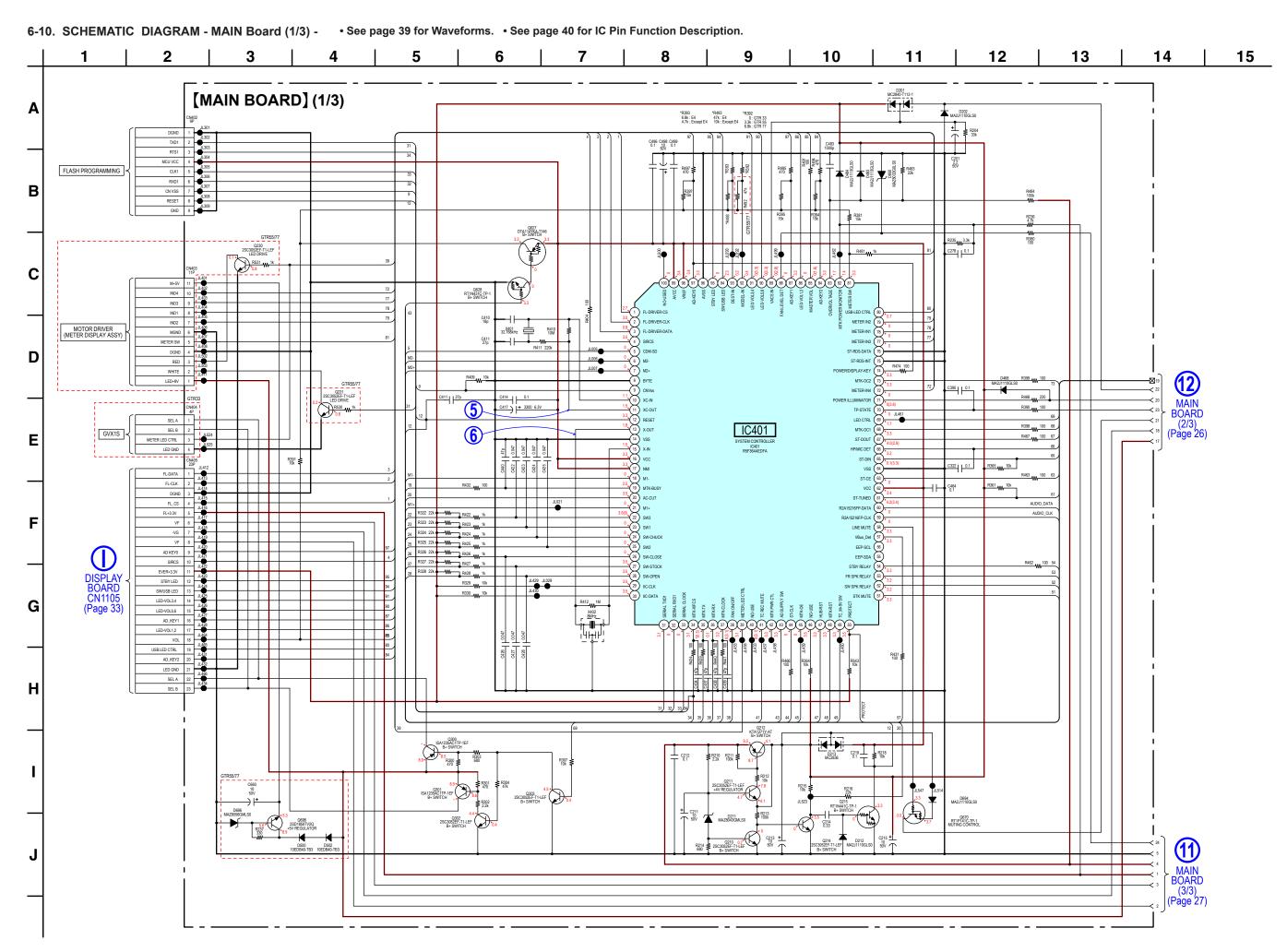




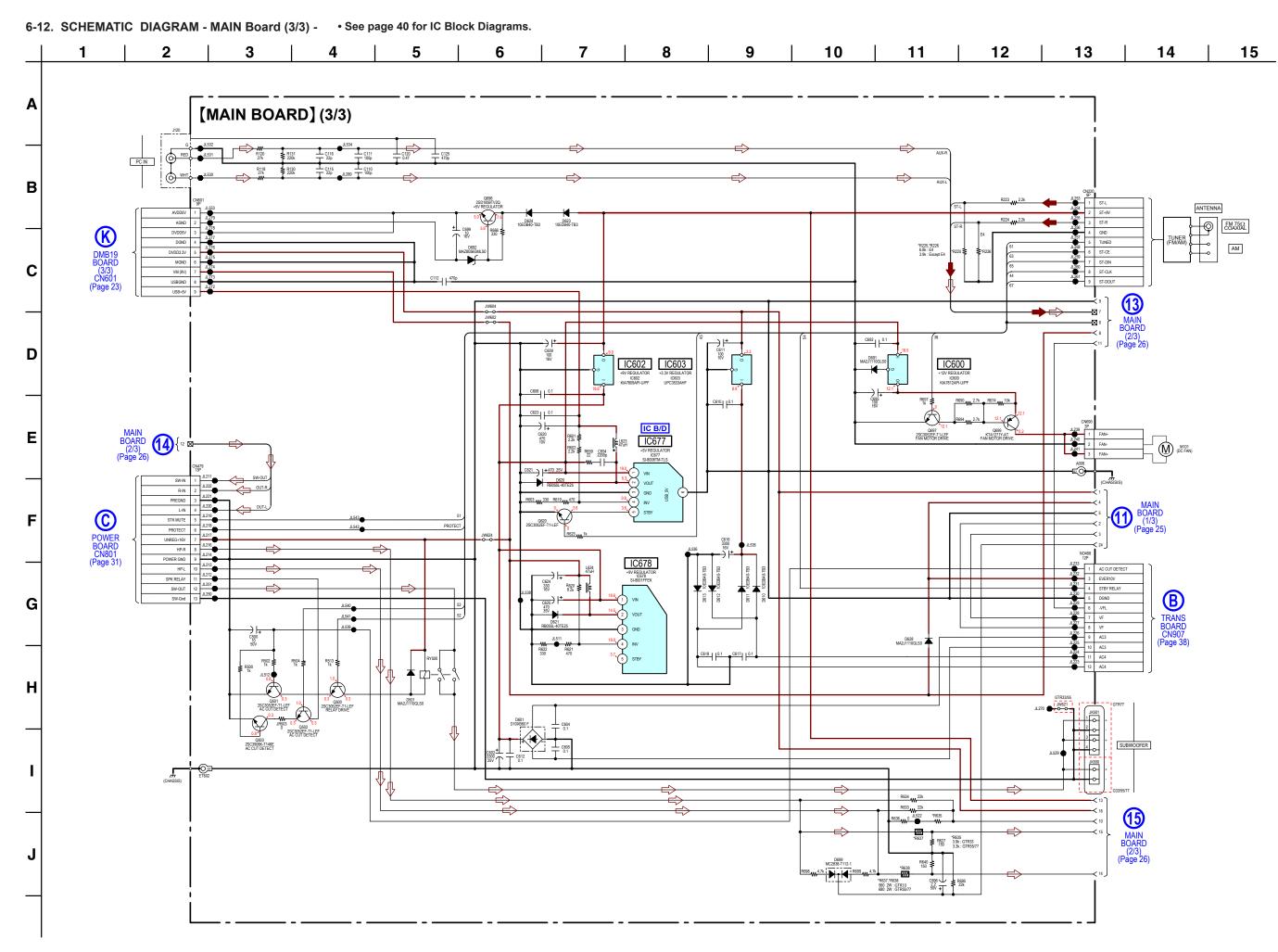


6-9. PRINTED WIRING BOARD - MAIN Board - • See page 19 for Circuit Boards Location. • 🖅 : Uses unleaded solder.

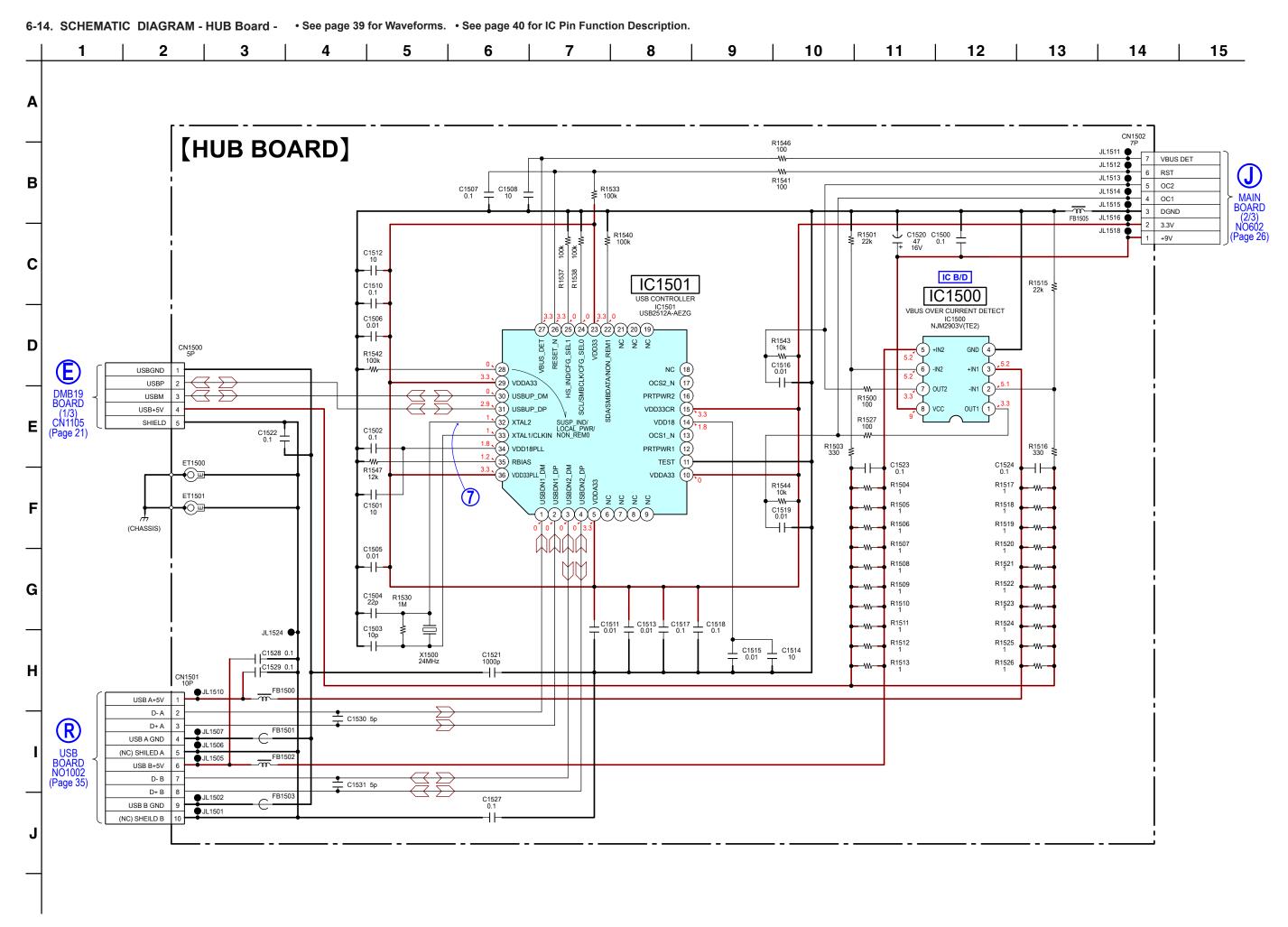




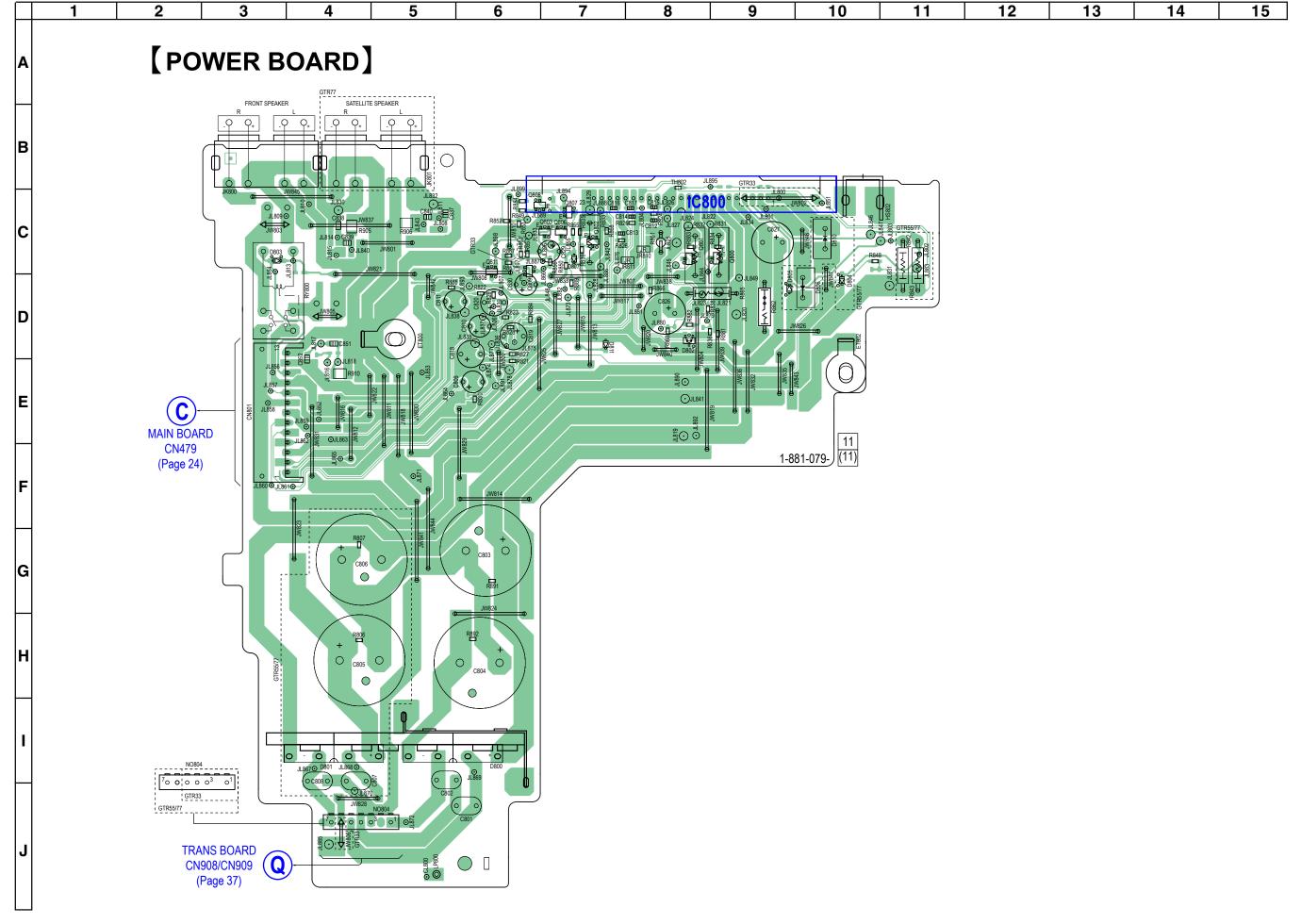
6-11. SCHEMATIC DIAGRAM - MAIN Board (2/3) - • See page 40 for IC Block Diagrams. 2 3 5 6 7 8 9 10 11 12 13 14 15 [MAIN BOARD] (2/3) CD MECHANISM DECK D MAIN BOARD (1/3) (Page 25) *C177 0.18: GTR33 0.12: GTR55/77 *C178 0.22: GTR33 0.33: GTR55/77 *R177 620: GTR33 680: GTR55/77 *R178 12k: GTR33 15k: GTR55/77 G *C380,*C382 0.068 : GTR33/55 0.056 : GTR77 IC253 IC B/D

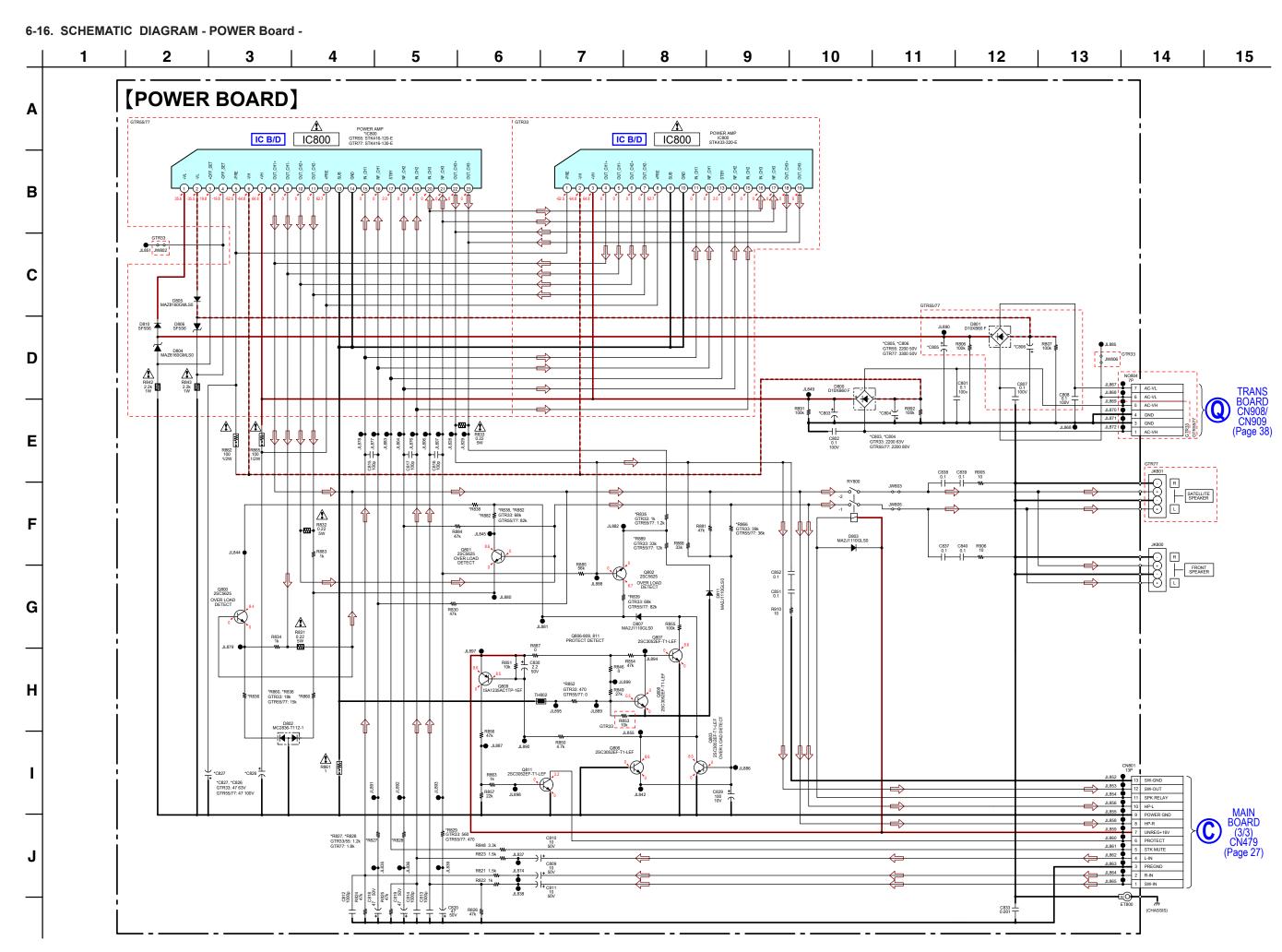


6-13. PRINTED WIRING BOARD - HUB Board - • See page 19 for Circuit Boards Location. • 🖅 : Uses unleaded solder. 15 2 9 10 11 12 13 14 [HUB BOARD] (COMPONENT SIDE) [HUB BOARD] (CONDUCTOR SIDE) **USB BOARD** (Page 34) 0 0 000 0 0 0 0 MAIN BOARD NO602 (Page 24) 1-881-132-DMB19 BOARD CN1105 (Page 20)

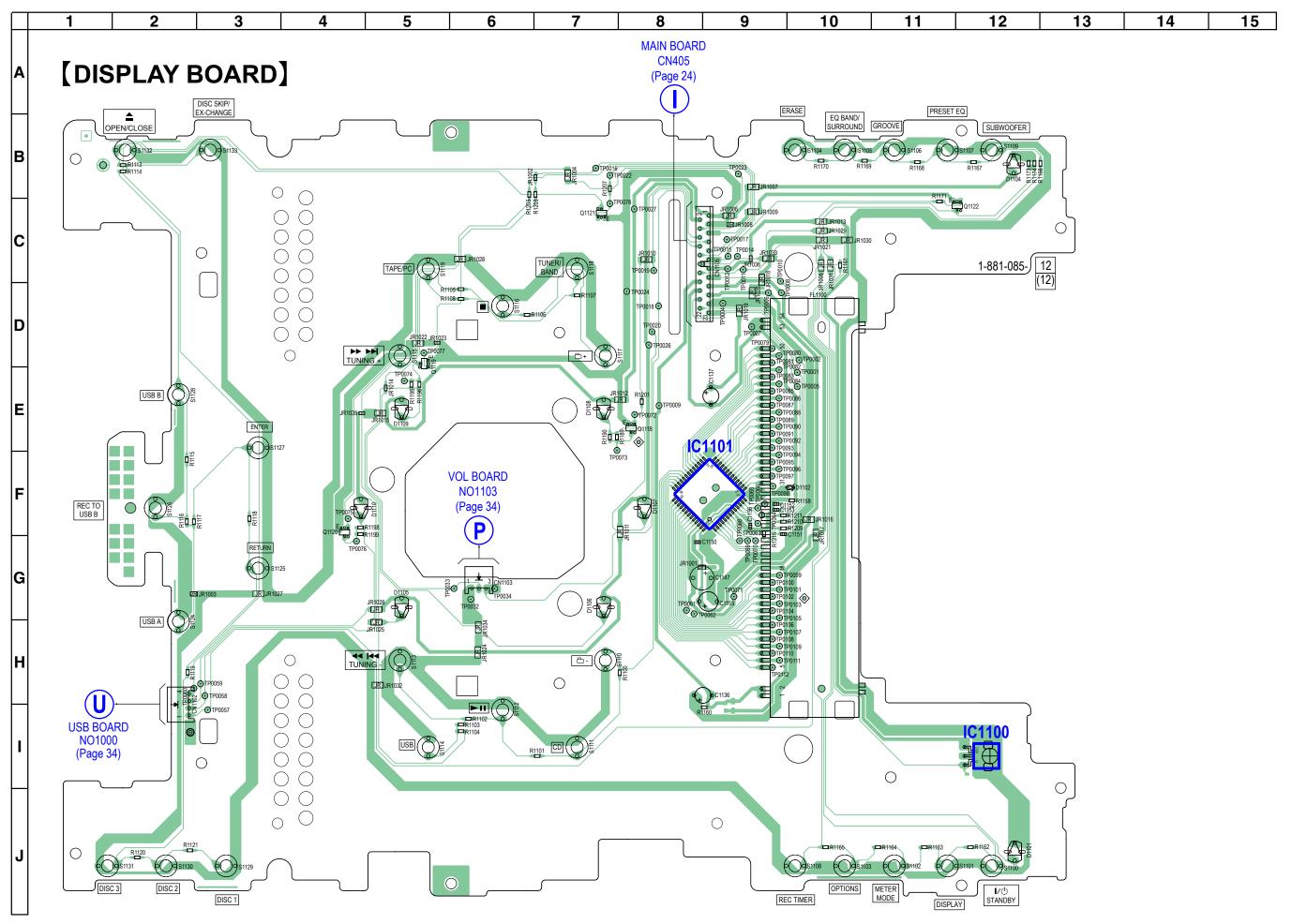


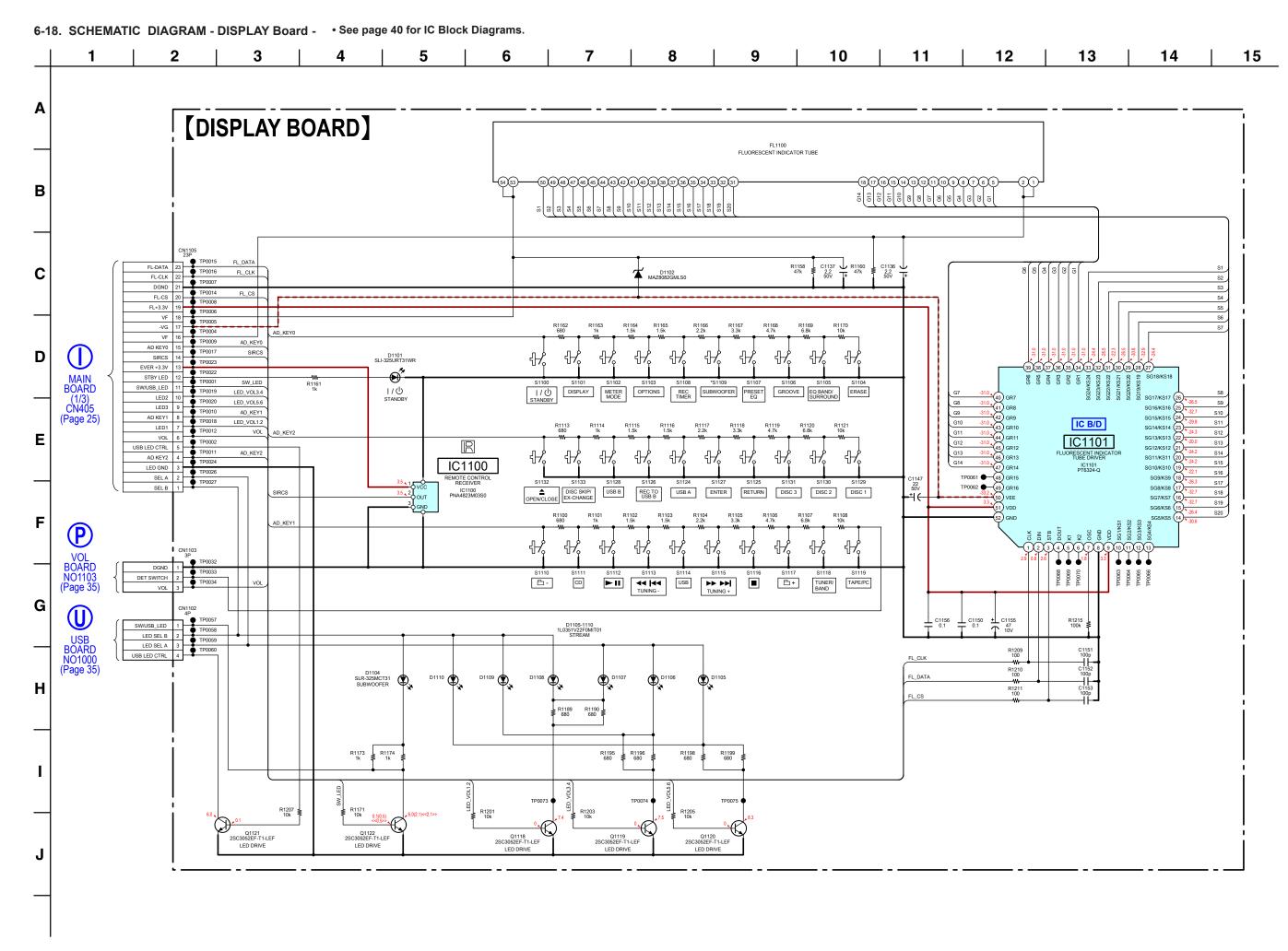
6-15. PRINTED WIRING BOARD - POWER Board - • See page 19 for Circuit Boards Location. • 🖅 : Uses unleaded solder.



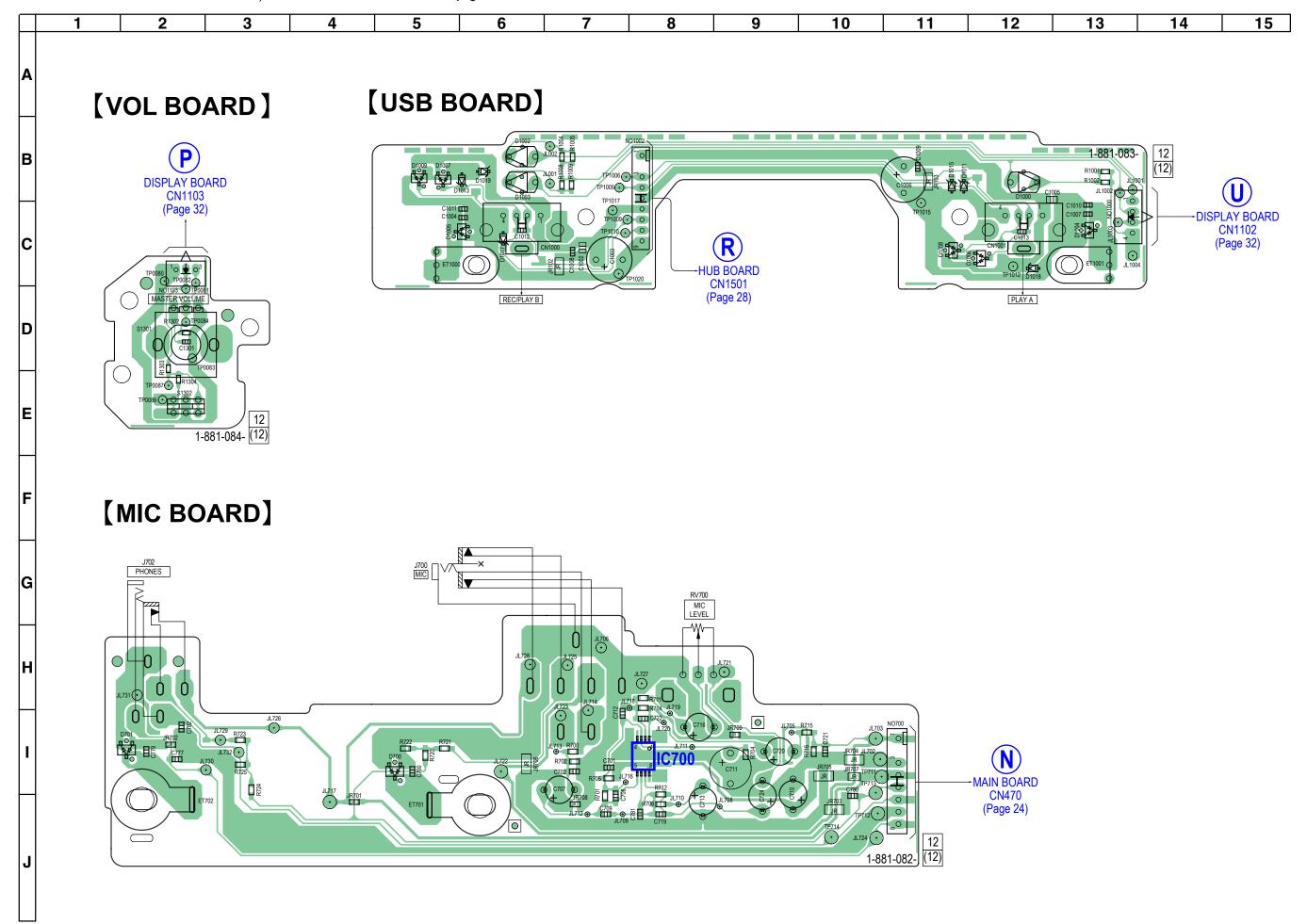


6-17. PRINTED WIRING BOARD - DISPLAY Board - • See page 19 for Circuit Boards Location. • 🖅 : Uses unleaded solder.





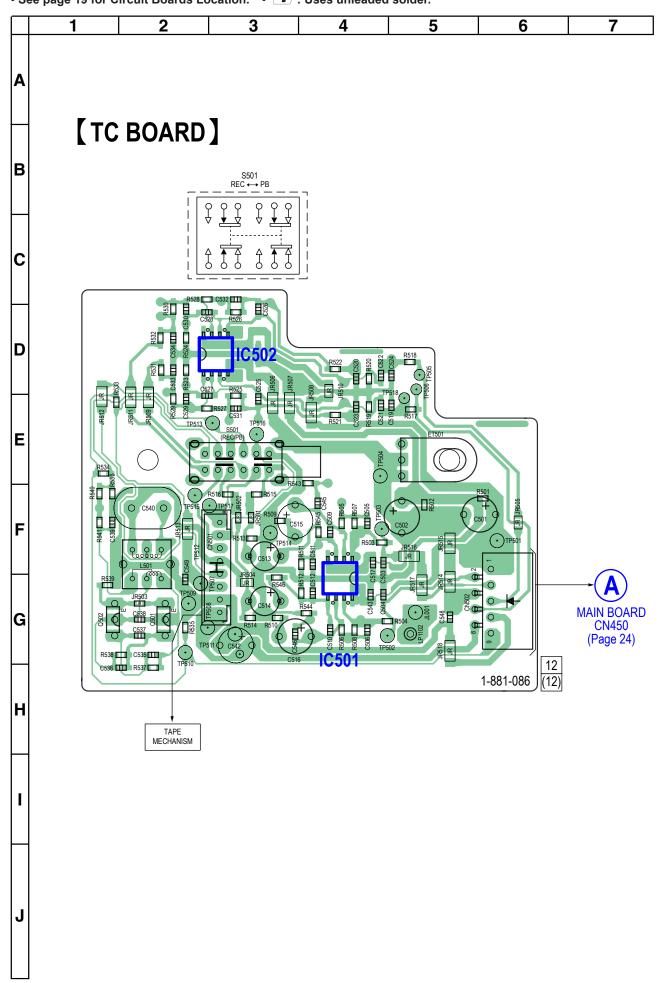
6-19. PRINTED WIRING BOARDS - MIC, USB AND VOL Board - • See page 19 for Circuit Boards Location. • 🖅 : Uses unleaded solder.

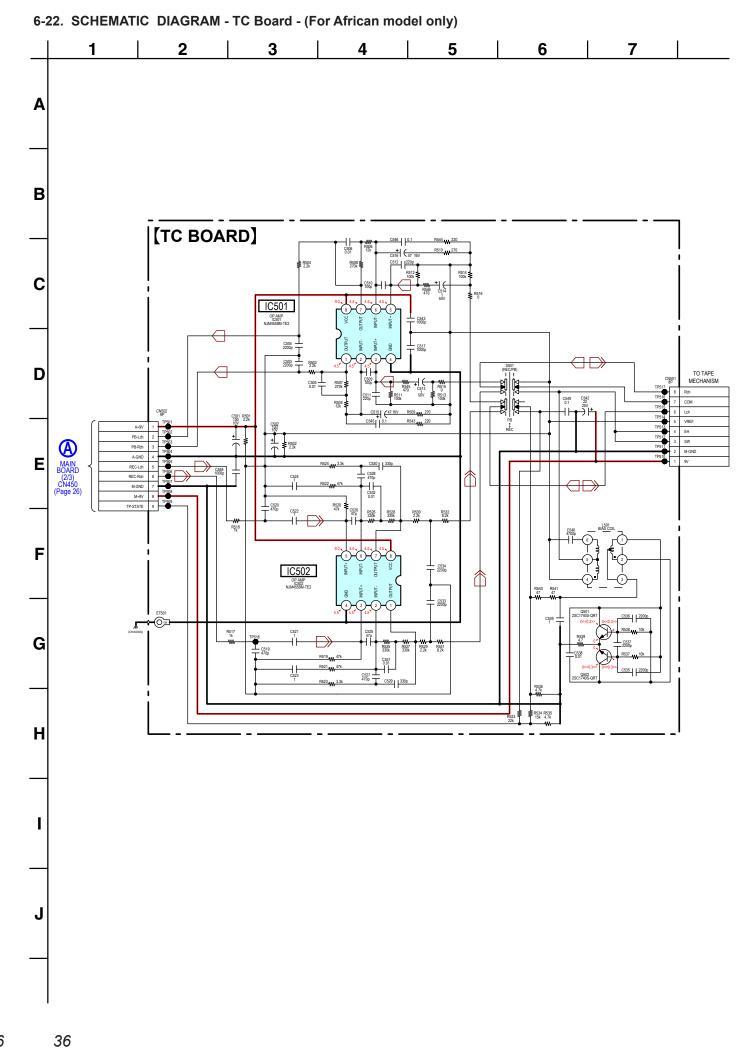


6-20. SCHEMATIC DIAGRAM - MIC, USB AND VOL Board - • See page 40 for IC Block Diagrams. 12 7 8 9 10 11 13 14 15 [USB BOARD] PLAY A [VOL BOARD] C D1000 1L0351B12C0MXT02 DET SWITCH 1 USB A+5V USB A R 3 D-A HUB BOARD CN1501 (Page 29) USB A GND USB B+5V D DISPLAY BOARD CN1102 (Page 33) LED SEL B 7P1020 9 USB B GND D+ B LED SEL A D1003 1L0351B12C0MXT02 USB LED CTRL USB B USB B R1005 R1004 1.5k ≸ 1.5k Ε [MIC BOARD] REC/PLAY B IC700 IC B/D D700 MC2837 G R721 18k 上 C702 1000p R702 **≷** ₹ R720 100k MIC SIGNAL MAIN BOARD (2/3) CN470 (Page 26) MIC/HP-DET ₹ R725 10k 1000p

6-21. PRINTED WIRING BOARD - TC Board - (For African model only)

• See page 19 for Circuit Boards Location. • **F** : Uses unleaded solder.

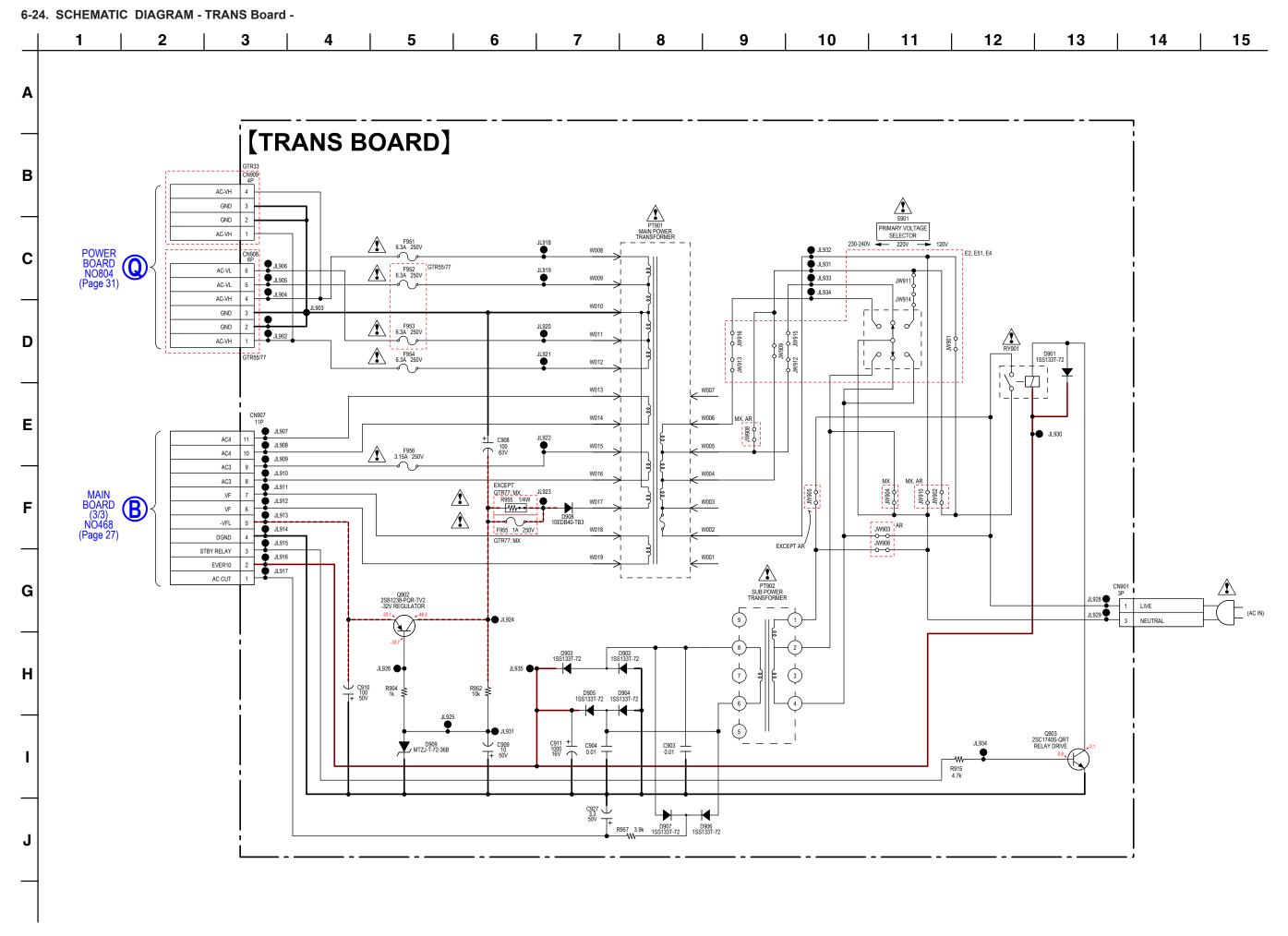




6-23. PRINTED WIRING BOARD - TRANS Board - • See page 19 for Circuit Boards Location. • 🖅 : Uses unleaded solder. 9 10 11 12 13 14 15 [TRANS BOARD] F951 Q POWER BOARD CN804 (Page 30) (B)MAIN BOARD NO468 (Page 24) S901 VOLTAGE SELECTOR \bigcirc 1-881-080-

37

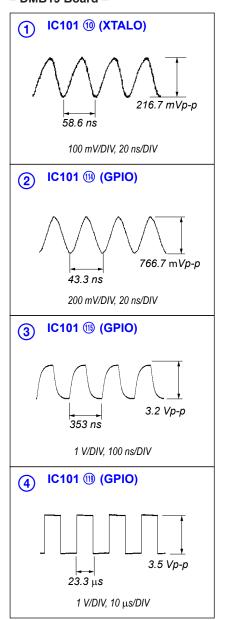
37



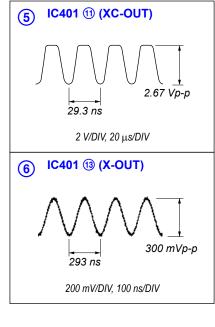
38

Waveforms

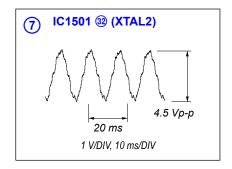
- DMB19 Board -



- MAIN Board -

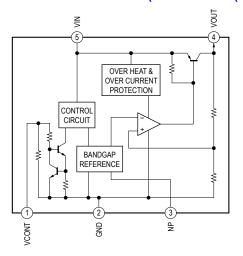


- HUB Board -

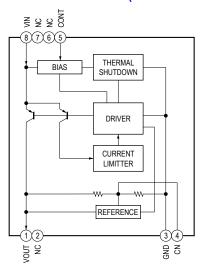


• IC Block Diagrams

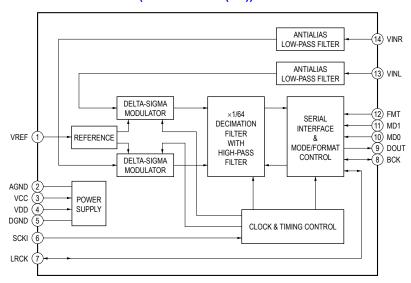
IC107 TK11133CSCL-G (DMB19 Board (1/3))



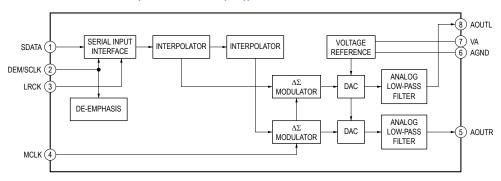
IC111 MM1661JHBE (DMB19 Board (1/3))



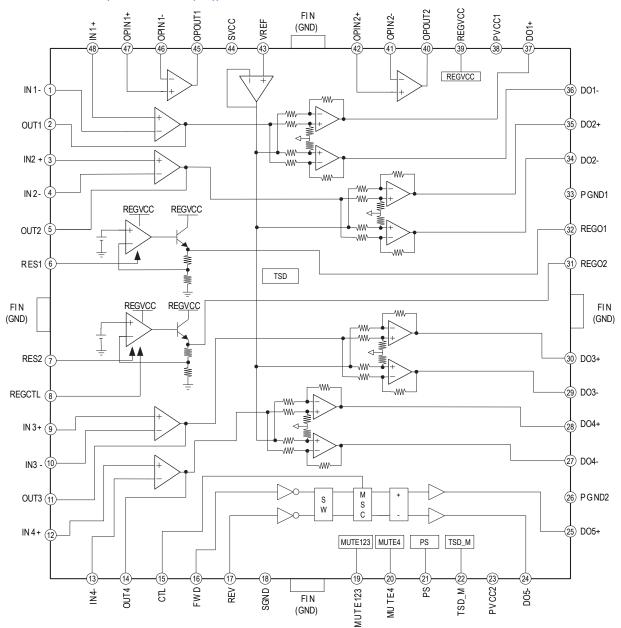
IC4601 PCM1808PWR (DMB19 Board (3/3))



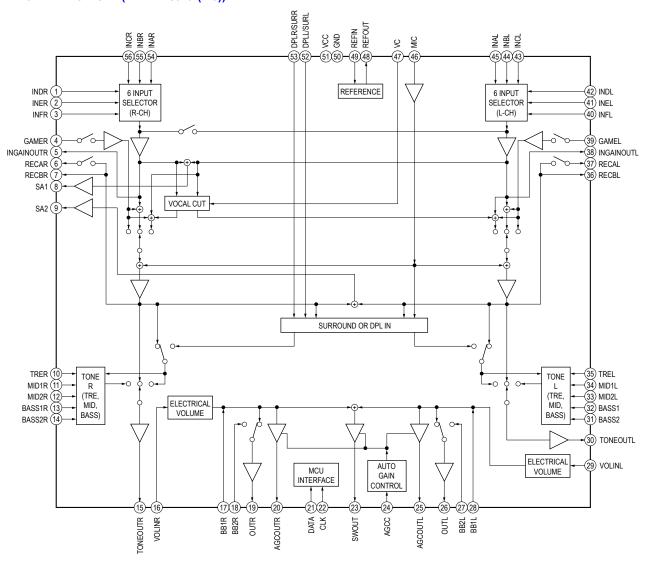
IC4602 CS4335-KSZR (DMB19 Board (3/3))



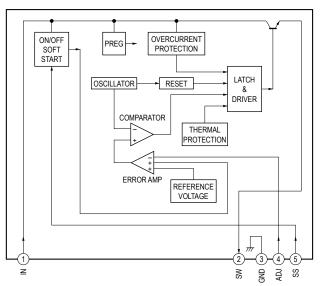
IC201 FAN8036L (DMB19 Board (2/3))



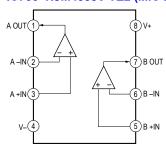
IC407 R2A15216FP (MAIN Board (2/3))



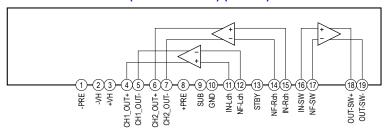
IC677 SI-8008TM-TLS (MAIN Board (3/3))



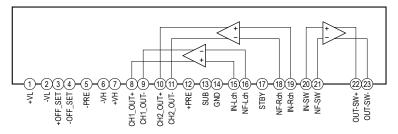
IC252, IC253 NJM4558V-TE2 (MAIN Board (2/3)) IC700 NJM4558V-TE2 (MIC Board)



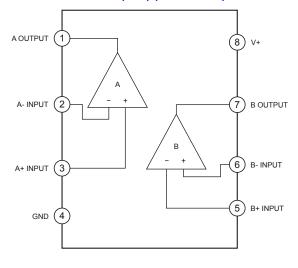
IC800 STK433-320-E (POWER Board) (GTR33)



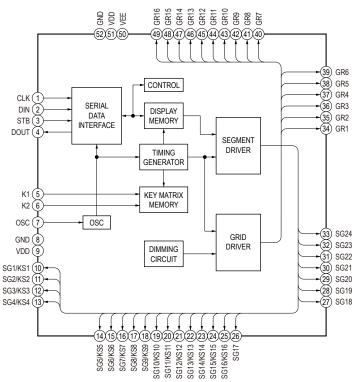
IC800 STK416-130-E (POWER Board) (GTR77) IC800 STK416-120-E (POWER Board) (GTR55)



IC1500 NJM2903V (TE2) (HUB Board)



IC1101 PT6324-Q (DISPLAY Board)



• IC Pin Function Description

DMB19 BOARD (1/3) IC101 CXD9968R (LE) (RF AMP, SERVO DSP, AUDIO PROCESSOR)

Pin No.	Pin Name	I/O	Description
1	RF_A	1	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	ı	RF main beam (A) input from the optical pick-up block
4	RF D	ı	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	AVDD10_2 AVDD33_1	_	Power supply terminal (+3.3V)
9	XTALI	1	System clock input terminal (27 MHz)
10	XTALO	0	System clock output terminal (27 MHz)
11	AGND33	-	Ground terminal
12	V2O	0	Reference voltage (+2V) output to the optical pick-up block
13	V14/VREFO	0	Reference voltage (+2.4V) output to the optical pick-up block Reference voltage (+1.4V) output terminal
14	REXT	I	Current reference input terminal Fixed at "L" in this set
15, 16		+	Laser power monitor input from the optical pick-up block
	MDI1, MDI2	0	·
17, 18	LDO1, LDO2		Laser diode drive signal output to the optical pick-up block
19 20	AVDD33_2	-	Power supply terminal (+3.3V) Spindle motor control signal output to the motor driver
	DMO	0	
21	FMO	0	Sled motor control signal output to the motor driver
	MUTE4	0	Muting signal output to the coil/motor driver (for spindle motor)
23	MSW	0	CD/DVD selection signal output terminal "L": CD, "H": DVD
24	TRO	0	Tracking coil control signal output to the coil driver
25	FOO	0	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	0	Serial clock signal output to the EEPROM (GTZ4i)
34	SDA	I/O	Two-way serial data with the EEPROM (GTZ4i)
35	IFSDI	I	Serial data input from the system controller
36	FS_CS#	0	Chip select signal output to the flash ROM
37	SF_DO	0	Serial data output to the flash ROM
38	SF_DI	I	Serial data input from the flash ROM
39	SF_CK	0	Serial clock signal output to the flash ROM
40	IFSCK	0	Serial data transfer clock signal output to the system controller
41	IFSOD	0	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	1	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	0	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	0	Data mask signal output to the SD-RAM
66	RCLK	0	Clock signal output to the SD-RAM
67	RA11	0	Address signal output to the SD-RAM
68	DVDD33	-	Power supply terminal (+3.3V)
69 to 74	RA9 to RA4	0	Address signal output to the SD-RAM
75	RWE#	0	Write enable signal output to the SD-RAM
76	CAS#	0	Column address strobe signal output to the SD-RAM
77	RAS#	0	Row address strobe signal output to the SD-RAM

78	Pin No.	Pin Name	I/O	Description
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 signal input from 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 (*1.3V) 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, DACVDDB, DACVDDB, DACVDDB O Composite video signal output terminal Not used 103 SCCB/B O Component video (*P)CD) signal output terminal Not used 104 CR/R O Component video (*P)CD) 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 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 1 Limit detection switch input terminal 117 AVCM - Audio D/A converter reference voltage terminal 118 GPIO 1 Limit detection switch input terminal 119 GPIO 0 Audio data output to the A/D converter and D/A converter 115 GPIO 0 Muting signal output to the A/D converter and D/A converter	78	BA0	0	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 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 coll/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 DACVDDA - Power supply terminal (+3.3V) 102 SYYYIG O Component video (Pb/Cb) signal output terminal Not used 104 CR/R O Component video (Pb/Cb) 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 ADACVSS2, ADACVSS2 - Ground terminal 111 APLLCAP I External capacitor connecting terminal 112 External capacitor connecting 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 1 Limit detection switch input to the A/D converter and D/A converter 117 AVCM - Audio D/A converter reference voltage terminal 118 GPIO 1 Limit detection switch input to the D/A converter and D/A converter 119 GPIO 0 Liris sampling clock signal output to the A/D converter and D/A converter	79	DVSS18	-	Ground terminal
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 XMMMUTE - 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, DACVDDB, DACVDDB - Power supply terminal (+3.3V) 102 SYYY/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 (Pb/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 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 1 Limit detection switch input terminal 117 AVCM - Audio D/A converter reference voltage terminal 118 GPIO 1 Limit detection switch input terminal 119 GPIO 0 Audio data output to the A/D converter and D/A converter	80	BA1	0	Bank address signal output to the SD-RAM
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, DACVDDB - Power supply terminal (+3.3V) 102 SYM/IG O Component video (Y) signal output terminal Not used 104 CRIR O Component video (Pb/Cb) signal output terminal Not used 105 AADVSS - Ground terminal 106 GPIO19 I Audio data input from the A/D converter (for USB) 109, 110 AADVDD, APILLYDD - Power supply terminal (+3.3V) 111 APILCAP I External capacitor connecting terminal 114 GPIO O Bit clock signal output to the A/D converter and D/A converter 115 GPIO O Master clock signal output to the A/D converter and D/A converter 116 GPIO O Master clock signal output to the A/D converter and D/A converter 117 AVCM - Audio D/A converter reference voltage terminal 118 GPIO I Limit detection switch input terminal 119 GPIO O Mating signal output to the A/D converter and D/A converter 110 Limit detection switch input terminal 111 GPIO O Mating signal output to the A/D converter and D/A converter	81 to 83	RA10, RA0, RA1	0	Address signal output to the SD-RAM
B87	84	DVDD33	-	Power supply terminal (+3.3V)
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 SYPY/G O Component video (Pb/Cb) 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 (Pb/Cb) signal output terminal Not used 105 AADVSS - Ground terminal 106 GPIO19 I Audio data input from the A/D converter (for USB) 109 ILIMITSW - Not used 109, 110 AADVDD, APLLVDD - Power supply terminal (+3.3V) 111 APLLCAP I External capacitor connecting terminal 114 GPIO O Master clock signal output to the A/D converter and D/A converter 115 GPIO O Mitring signal output to the A/D converter and D/A converter 116 GPIO O Mused round to the A/D converter and D/A converter 117 AVCM - Audio DA/C converter ference voltage terminal 119 GPIO O Lick signal output to the A/D converter and D/A converter	85, 86	RA2, RA3	0	Address signal output to the SD-RAM
88	87	IFBSY	I	Communication initialization request signal input from the system controller
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, DACVDDB, DACVDDA 102 SYNYIG O Component video (Y) signal output terminal Not used 103 SC/CBIB O Component video (Pri/Cr) signal output terminal Not used 104 CR/R O Component video (Pri/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 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 I Limit detection switch input terminal 117 AVCM - Audio D/A converter reference voltage terminal 118 GPIO I Limit detection switch input terminal 119 GPIO O Muting signal output to the A/D converter and D/A converter	88	IFCS#	0	
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, DACVDB, DA	89	RX	-	Not used
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, DACVDB, DACVD	90	DVDD18	-	Power supply terminal (+1.8V)
93 SPDIF O SPDIF signal output terminal Not used 94 GPIO I Thermal shut down signal input from the coil/motor driver 95 DACV/DDC - 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 DACV/DDB, DACV/DDB, DACV/DDA 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 (Pb/Cb) 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 AADV/DD, APLLV/DD - 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 I Limit detection switch input trom the A/D converter and D/A converter 117 AVCM - Audio D/A converter reference voltage terminal 118 GPIO I Limit detection switch input terminal 119 GPIO O Audio data output to the D/A converter and D/A converter 120 GPIO O Audio data output to the D/A converter and D/A converter	91	TX	-	
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ADACVSS1 ADACVSS1 Ground terminal 114 GPIO O Master clock signal output to the A/D converter and D/A converter 115 GPIO O Muting signal output to the coil/motor driver (for focus/tracking coil and sled motor) 117 AVCM AVCM AUGIO 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 ADACVDD1, Power supply terminal (±3 3V)	109, 110	AADVDD, APLLVDD	-	Power supply terminal (+3.3V)
112, 113 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 ADACVDD1, Power supply terminal (±3 3V)	111	APLLCAP	- 1	External capacitor connecting terminal
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, Power supply terminal (±3 3V)	112, 113		-	Ground terminal
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, Power supply terminal (±3 3V)	114	GPIO	0	Master 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, Power supply terminal (±3 3V)	115	GPIO	0	Bit clock signal output to the A/D converter and D/A converter
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121 122 ADACVDD1, Power supply terminal (+3 3V)	120	GPIO	0	
ADACVDD2 Site Septy terminal (1984)	121, 122		-	Power supply terminal (+3.3V)
123 AVDD18_1 - Power supply terminal (+1.8V)	123	AVDD18_1	-	Power supply terminal (+1.8V)
124 AGND18 - Ground terminal	124		-	Ground terminal
125, 126 RF_IP, OPOUT I AC coupled RF signal input from the optical pick-up block	125, 126	RF_IP, OPOUT	I	AC coupled RF signal input from the optical pick-up block
127 IOPMON/OPINP I Power monitor terminal			I	
128 SPFG/OPINN I Spindle motor hall sensor input from the motor driver	128	SPFG/OPINN	I	Spindle motor hall sensor input from the motor driver

HUB BOARD IC1501 USB2512A-AEZG (USB CONTROLLER)

Pin No.	Pin Name	I/O	Description
1, 2	USBDN1_DM, USBDN1_DP	ı	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	0	Not used
13	OCS1_N	1	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	0	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	- 1	Reset signal input from the system controller "L": reset
27	VBUS_DET	- 1	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	0	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)

MAIN BOARD (1/3) IC401 R5F364AEDFA (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	FL-DRIVER-CS	0	Serial data chip select signal to FL Driver, PT6324
2	FL-DRIVER-CLK	0	Serial data clock signal to FL Driver, PT6324
3	FL-DRIVER-DATA	0	Serial data output signal to FL Driver, PT6324
4	SIRCS	- 1	Remote control signal input
5	CDM-SD	- 1	CDM protector detection input signal "H": protector on
6	M2-	0	Disc change and mode change motor control signal output
7	M2+	0	Disc change and mode change motor control signal output
8	BYTE	-	Ground terminal
9	CNVss	-	Ground terminal
10	XC-IN	ı	Sub system clock input terminal (32.768kHz)
11	XC-OUT	0	Sub system clock output terminal (32.768kHz)
12	RESET	ı	System reset signal input from the reset signal IC "L": reset After the power supply rises, "L" is input for several hundreds msec and then change to "H".
13	X-OUT	0	Main system clock output terminal (8MHz)
14	VSS	-	Ground terminal
15	X-IN	1	Main system clock input terminal (8MHz)
16	VCC	-	Power supply terminal (+3.3V)
17	NMI	1	Non-maskable interrupt input terminal
	M1-		Tray/drawer transportation motor control signal output
18		0	
19	MTK-BSY	0	BUSY Signal communication between MTK Board
20	AC-CUT	1	AC off detection signal input from the reset signal IC "L": AC Cut detected
21	M1+	0	Tray/drawer transportation motor control signal output
22	SW3	I	Disc change and mode change detection signal input from CDM
23	SW1	I	Disc change and mode change detection signal input from CDM
24	SW-CHUCK		Tray chuck position detection signal from CDM
25	SW2	1	Disc change and mode change detection signal input from CDM
26	SW-CLOSE	-	Drawer close position detection signal input from CDM
27	SW-STOCK	-	Tray stock position detection signal from CDM
28	SW-OPEN	1	Drawer open position detection signal input from CDM
29	IIC-CLK	I/O	Serial data transfer clock signal output terminal
30	IIC-DATA	I/O	Serial data output terminal
31	METER BL CTL	0	Meter Backlight LED control signal. "H" LED ON (Only for HCD-GTR55 and HCD-GTR77 model)
32	NO-USE	-	Unused
33	NO-USE	-	Unused
34	MTK-XIFCS	- 1	Chip Select Signal from MTK DMB Board
35	MTK-SOD	0	Data Out Signal to MTK DMB Board
36	MTK-SIO	- 1	Data In Signal from MTK DMB Board
37	MTK-CLK	I	Clock Signal from MTK DMB Board
38	FAN CTRL ON/OFF	0	Fan Control Switch "H": fan on
39	METER LED_CTL	0	Dynamic LED drive signal output to the Meter Pointer LED and Meter Backlight LED. "H":LED on (Only for HCD-GTR33 model) Meter pointer LED Control pin. "H":LED on (Only for HCD-GTR55 and HCD-GTR77 model)
40	NO-USE	-	Unused
41	TC REC MUTE	0	TAPE muting control. "H": muting on (Only for African model)
42	MTK PWR CTL	0	Power Control pin for MTK DMB board
43	AD SUPPLY SWITCH	0	AD Power Control pin
44	ST-CLK	0	PLL serial data transfer clock signal output to the tuner unit
45	MTK-OE	0	MTK Output enable control pin
46	NO-USE	-	Unused
47	MTK HUB RST	-	MTK Hub Board reset pin
	 		
48	MTK-RESET	1	MTK DMB Board reset pin TCM never symply control signal cutruit "Ill" never on (Only for African model)
49	TC_M+9V SW	0	TCM power supply control signal output "H":power on (Only for African model)
50	PROTECT	1	Speaker protect detection signal input from speaker protect circuit "H":protector on
51	STK MUTE	0	Power amplifier on/off control signal output "H": amplifier on
52	SW SPK RELAY	0	Relay drive signal output for the subwoofer "H":relay on
53	FR SPK RELAY	0	Relay drive signal output for the front speakers "H":relay on

Pin No.	Pin Name	I/O	Description
54	STBY RELAY	0	Main power on/off control signal output "H":power on
55	NO-USE	-	Unused
56	NO-USE	-	Unused
57	MTK-VBUS-DET	0	Hub Power (V-DET) Control Port
58	LINE-MUTE	0	Line muting on/off control signal "L":muting on
59	R2A15216FP-CLK	0	Serial data transfer clock signal output to audio signal processor, R2A15216FP
60	R2A15216FP-DATA	0	Serial data output to audio signal processor, R2A15216FP
61	ST-TUNED	I	Tuned detection input from the tuner unit
62	VCC	-	Power supply terminal (+3.3V)
63	ST-CE	0	PLL chip enable signal output to the tuner unit
64	VSS	-	Ground terminal
65	ST-DIN	0	PLL serial data output to the tuner unit
66	MIC/HP_DET	I	Headphone & microphone connection detection signal input (A/D input)
67	ST-DOUT	I	PLL serial data input from the tuner unit
68	MTK-OC1	I	USB Overcurrent Detection input port 1
69	LED CTRL	0	Dynamic LED drive select signal output
70	TC-STATE	I	Tape playback/recording/stop status detection input signal (A/D input) (Only for African model)
71	ILLUMINATOR-INPUT	I	Power illuminator & METER input signal detection (A/D input)
72	METER-IN4	0	Meter motor control signal output 4 (Only for HCD-GTR55 and HCD-GTR77)
73	MTK-OC2		USB Overcurrent Detection input port 2
74	POWER/DISPLAY- KEY	I	POWER & DISPLAY key press detection signal (Interrupt input)
75	NO-USE	-	Unused
76	NO-USE	-	Unused
77	METER-IN3	0	Meter motor control signal output 3 (Only for HCD-GTR55 and HCD-GTR77)
78	METER-IN1	0	Meter motor control signal output 1 (Only for HCD-GTR55 and HCD-GTR77)
79	METER-IN2	0	Meter motor control signal output 2 (Only for HCD-GTR55 and HCD-GTR77)
80	USB-B LED	0	Dynamic LED drive signal output to the USB B Blue and Red LED "H":LED on
81	METER SW	I	Min and Max switch input signal from METER (A/D input) (Only for HCD-GTR55 and HCD-GTR77)
82	MTK PWR MON	- 1	MTK DMB Board power monitor input pin (A/D input)
83	OVERVOLTAGE	- 1	Over-voltage protection detection input terminal "L": over-voltage detected
84	AD-KEY2	- 1	Key input terminal (A/D input)
85	MASTER VOL	- 1	Jog dial pulse input from the MASTER VOLUME encoder (A/D input)
86	LED-VOL1,2	0	Dynamic LED drive signal output to the ILLUMINATION 1st indicator and 2nd indicator "H":LED on
87	AD-KEY1	I	Key input terminal (A/D input)
88	OUTPUT LEVEL DETECT	I	Speaker Output Level Detection
89	VACS-IN	I	VACS level detection signal (A/D input)
90	LED-VOL5,6	0	Dynamic LED drive signal output to the ILLUMINATION 5th indicator and 6h indicator "H":LED on
91	LED-VOL3,4	0	Dynamic LED drive signal output to the ILLUMINATION 3rd indicator and 4th indicator "H":LED on
92	MODEL-IN	-	Model setting terminal (A/D input)
93	DEST-IN	I	Destination setting terminal (A/D input)
94	SW LED/USB A LED	0	Dynamic LED drive signal output to the Subwoofer LED and USB A LED indicator "H":LED on
95	STBY LED	0	LED drive signal output of POWER indicator "H":LED on
96	AVSS	-	Ground terminal (for A/D conversion)
97	AD-KEY0	I	Key input terminal (A/D input)
98	AREF	I	A/D Converter reference voltage input terminal (+3.3V)
99	AVCC	-	Power supply terminal (+3.3V) (for A/D conversion)
100	NO-USE	-	Unused

SECTION 7 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 sup-

· Color Indication of Appearance Parts Example:

KNOB, BALANCE (WHITE) . . . (RED)

Parts Color Cabinet's Color

Abbreviation

: Argentina model AR E2 120V AC area in E model

E4 : African model

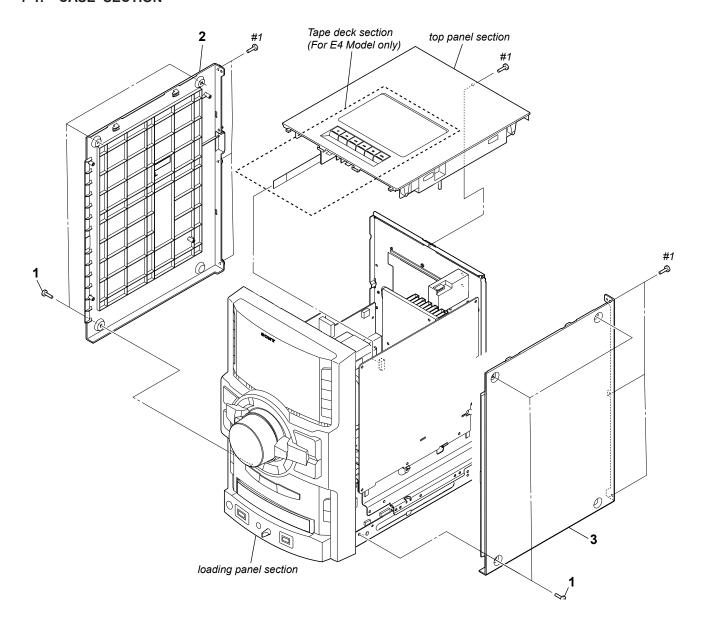
E51 : Chilean and Peruvian models

 MX : Mexican model

The components identified by mark \triangle or dotted line with mark rianlge rianlge are critical for

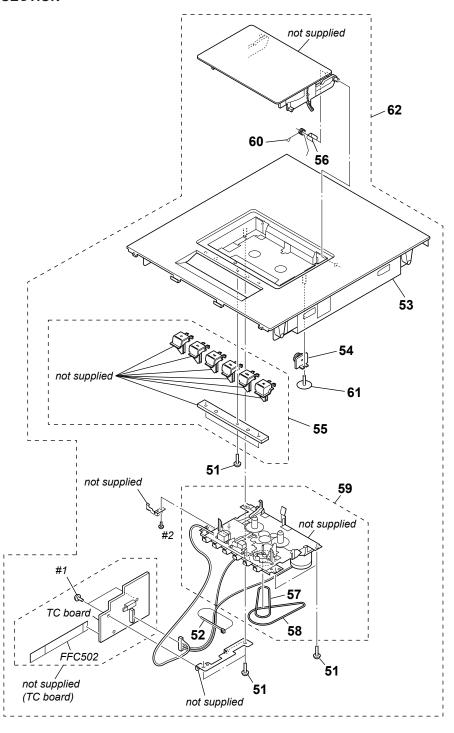
Replace only with part number specified.

7-1. CASE SECTION



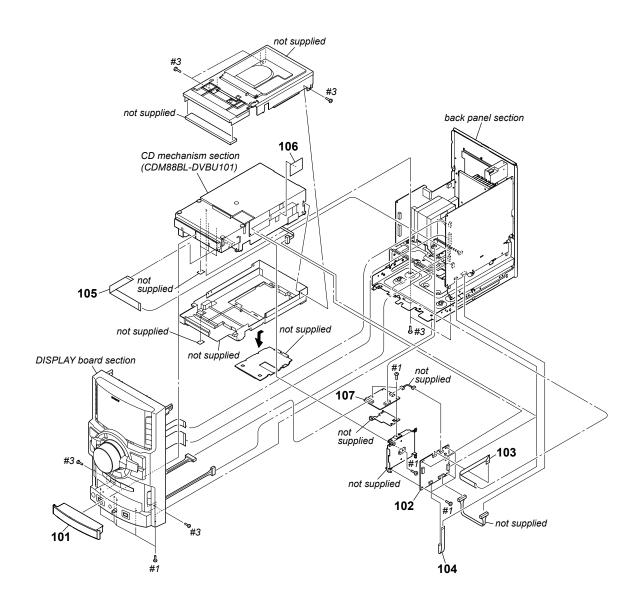
Ref. No.	Part No.	<u>Description</u>	Remark
1	3-363-099-32	SCREW (CASE 3 TP2)	
2	3-283-218-22	CASE, (SIDE-L)	
3	3-283-219-22	CASE, (SIDE-R)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

7-2. TOP PANEL SECTION



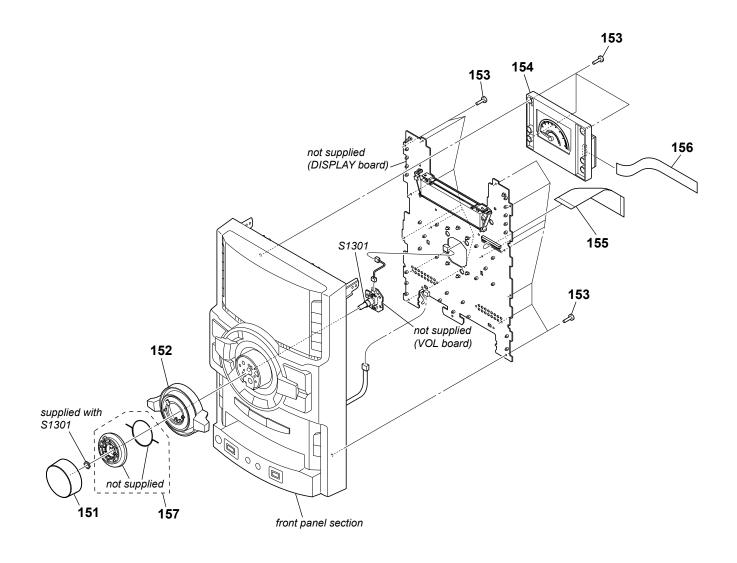
Ref. No.	Part No.	<u>Description</u>	Remark	Ref. No.	Part No.	Description	Remark
51	3-087-053-01	+BVTP2.6 (3CR) (E4)		59	1-797-575-11	DECK, MECHANICAL (E4)	
52	3-701-748-00	CLAMP (E4)		60	4-170-774-01	SPRING (CASS) (E4)	
53	4-124-215-01	CASE, TOP (EXCEPT E4)					
54	3-047-468-01	DAMPER (E4)		61	4-218-252-52	SCREW (+PTPWH M2.6), FLOATING (E	Ξ4)
55	2-649-132-21	BUTTON (CASS) (●, ▶, ◄◄, ▶▶, ■	▲ , ■■) (E4)	62	X-2546-412-1	TOP CASE ASSY (GVX1S/3S/4S) (E4)	
				FFC502	1-828-958-11	WIRE (FLAT TYPE) (9 CORE) (E4)	
56	3-917-753-41	CUSHION (SP) (E4)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3 (E4)	
57	2-688-621-01	BELT (R/F) (E4)		#2	7-685-850-04	SCREW +BVTT 2X3 (S) (E4)	
58	2-688-622-01	BELT (MAIN) (E4)					

7-3. LOADING PANEL SECTION, HUB BOARD SECTION, DMB19 BOARD SECTION



Ref. No.	Part No.	Description	Remark
101	4-164-371-11	PANEL, LOADING	
102	A-1745-142-A	DMB19 BOARD, COMPLETE	
103	1-828-311-51	WIRE (FLAT TYPE) (9 CORE)	
104	1-836-973-11	WIRE (FLAT TYPE) (7 CORE)	
105	1-828-975-11	WIRE (FLAT TYPE) (13 CORE)	
106	3-831-441-11	CUSHION, SARANET	
107	A-1750-170-A	HUB BOARD, COMPLETE	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

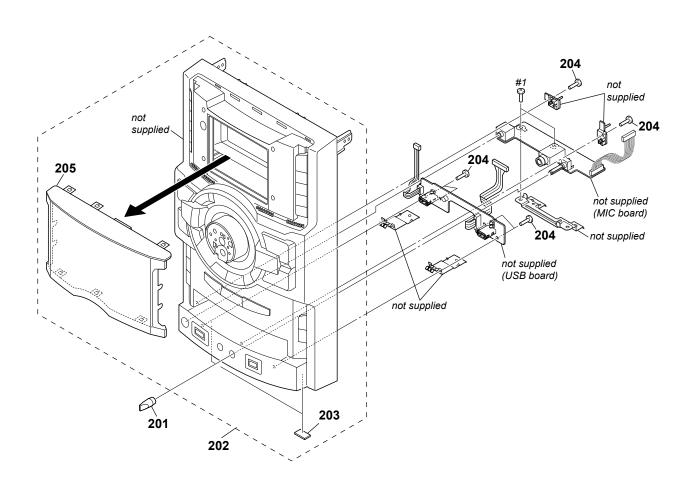
7-4. DISPLAY BOARD SECTION



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

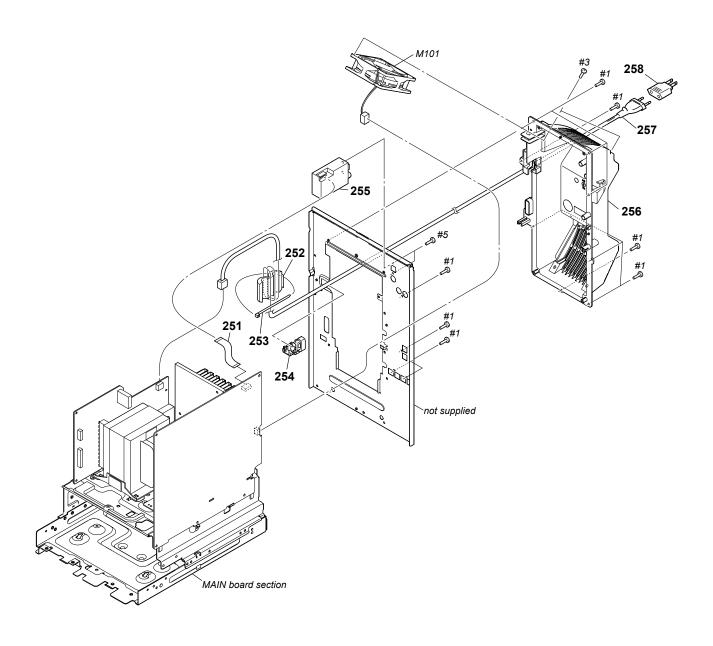
Ref. No.	Part No.	<u>Description</u>	Remark
151	4-164-361-01	KNOB (VOLUME) (GTR33/GTR55)	
151	4-164-361-11	KNOB (VOLUME) (GTR77)	
152	4-164-363-01	KNOB (JOG)	
153	3-087-053-01	+BVTP2.6 (3CR)	
154	A-1754-602-A	METER DISPLAY ASSY (GVX) (GTR55	5/GTR77)
154	A-1754-606-A	PANEL (GVX1) ASSY, DISPLAY (GTR3	3)
155	1-838-059-11	FLEXIBLE FLAT CABLE (23 CORE)	•
156	1-828-964-11	WIRE (FLAT TYPE) (11 CORE) (GTR55	5/GTR77)
157	X-2541-975-1	HOLDER (JOG) ASSY	
S1301	1-487-171-11	ROTARY ENCODER	

7-5. FRONT PANEL SECTION



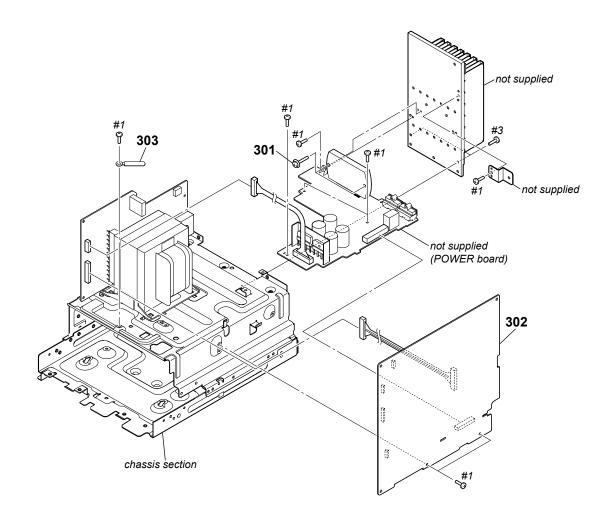
Ref. No.	Part No.	Description	Remark
201	2-895-507-01	KNOB (MIC)	CEPT E4)
202	X-2541-955-1	FRONT PANEL ASSY (GVX-COM) (EXC	
202	X-2546-463-1	FRONT PANEL ASSY (GVX-E4) (E4)	
203	4-225-252-01	CUSHION (FOOT)	
204	3-087-053-01	+BVTP2.6 (3CR)	
205	4-164-351-01	WINDOW (FL)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

7-6. BACK PANEL SECTION



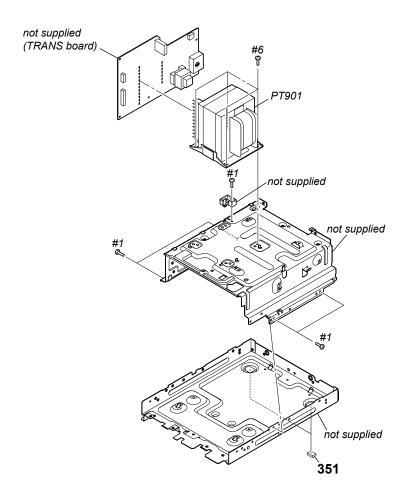
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	<u>Description</u>	Remark
251 252 253 254 255	1-828-952-11 1-457-369-12 3-655-653-11 4-966-267-12 1-693-778-31	WIRE (FLAT TYPE) (9 CORE) CORE, FERRITE BAND (TAITON), BINDING BUSHING (FBS001), CORD TUNER (FM/AM)		⚠ 258 M101 #1 #3 #5	1-569-008-21 1-787-344-21 7-685-646-79 7-685-647-79 7-685-871-01	ADAPTOR, CONVERSION (E2, E51, E4 FAN, DC SCREW +BVTP 3X8 TYPE2 IT-3 SCREW +BVTP 3X10 TYPE2 IT-3 SCREW +BVTT 3X6 (S)	1)
256 256 257 1 257 257	4-124-216-44 4-124-216-55 1-777-071-83 1-837-312-11 1-837-344-11	COVER (FAN) (E2, E51, E4) COVER (FAN) (MX, AR) CORD, POWER (E2, E51, E4) CORD, POWER-SUPPLY (AR) CORD, POWER-SUPPLY (MX)		#3	1-003-01	30KEW +BV11 3A0 (3)	

7-7. MAIN BOARD SECTION



Ref. No.	Part No.	Description	Remark	<u> </u>	Ref. No.	Part No.	<u>Description</u>	Remark
301	3-905-609-31	SCREW (TRANSISTOR)			302	A-1754-384-A	MAIN BOARD, COMPLETE (GTR55: E4)
302	A-1750-177-A	MAIN BOARD, COMPLETE			302	A-1754-390-A	MAIN BOARD, COMPLETE (GTR77: E4)
		(GTR33: AR, E	2, E51, MX)	*	303	3-703-150-11	CLAMP	
302	A-1750-180-A	MAIN BOARD, COMPLETE			#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
		(GTR55: AR, E	2, E51, MX)		#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
302	A-1750-183-A	MAIN BOARD, COMPLETE						
		(GTR77: AR, E	2, E51, MX)					
302	A-1754-378-A	MAIN BOARD, COMPLETE (GTR33: E4)					
				l				

7-8. CHASSIS SECTION

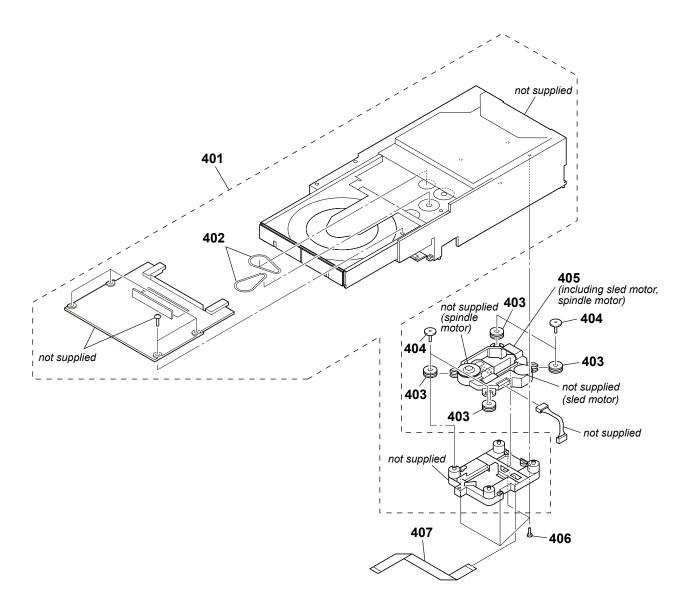


Note: If wire (flat type) is replaced, install it after bending it in the same form as that before replacement.

Ref. No.	Part No.	<u>Description</u>	Remark
351	4-225-252-01	CUSHION (FOOT)	
⚠ PT901	1-445-827-11	POWER TRANSFORMER (MAIN) (GTI	R33: MX)
	1-445-828-11	POWER TRANSFORMER (MAIN) (GTI	R33:E4)
⚠ PT901	1-445-829-11	POWER TRANSFORMER (MAIN)	
		(GTR33:	E2, E51, AR)
	1-445-830-11	POWER TRANSFORMER (MAIN) (GTI	R77:MX)
⚠ PT901	1-445-831-11	POWER TRANSFORMER (MAIN) (GTI	R77:E4)
⚠ PT901	1-445-832-11	POWER TRANSFORMER (MAIN)	
		(GTR77	':E2, E5, AR)
	1-445-834-11	POWER TRANSFORMER (MAIN) (GTI	R55: MX)

Ref. No.	Part No.	Description	Remark
⚠ PT901	1-445-835-11	POWER TRANSFORMER (MAIN)	
⚠ PT901	1-445-836-11	(GTR55) POWER TRANSFORMER (MAIN) (G	: E2, E51, AR) TR55:E4)
#1 #6	7-685-646-79 7-685-880-09	SCREW +BVTP 3X8 TYPE2 IT-3 SCREW +BVTT 4X6 (S)	

7-9. CD MECHANISM SECTION (CDM88BL-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	Ref. No.	Part No.	Description
401	1-840-387-31	MECHANICAL, CD		406	3-087-053-01	+BVTP2.6 (3CR)
402	2-632-062-11	BELT (DLM3A)		407	1-828-773-51	WIRE (FLAT TYPE) (24 CORE)
403	2-634-618-21	INSULATOR				
404	3-087-599-01	INSULATOR SCREW				
△ 405	8-820-322-04	DEVICE, OPTICAL KHM-313CAB/C2NF)			
		(Including sled motor sp	indle motor)			

Remark

DISPLAY

SECTION 8 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.

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

E4 : African model F51

: Chilean and Peruvian models

MX: Mexican model When indicating parts by reference number, please include the board name.

The components identified by mark rianlgeor dotted line with mark \triangle are critical for

Replace only with part number specified.

F: nonfla		oxide-film resisi	tor.	IVIX :	wexican mo	odei					
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
		DISPLAY BOARD)			JR1008	1-216-295-91	SHORT CHIP	0		
		*******				JR1009	1-216-296-11	SHORT CHIP	0		
						JR1010	1-216-296-11	SHORT CHIP	0		
		< CAPACITOR >							•		
						JR1011	1-216-296-11	SHORT CHIP	0		
C1136	1-124-257-00	ELECT	2.2uF	20%	50V	JR1012	1-216-296-11	SHORT CHIP	0		
C1137	1-124-257-00	ELECT	2.2uF	20%	50V	JR1013	1-216-296-11	SHORT CHIP	0		
C1147	1-128-131-11	ELECT	22uF	20%	50V	JR1014	1-216-864-11	SHORT CHIP	0		
C1150	1-164-156-11	CERAMIC CHIP	0.1uF		25V	JR1015	1-216-296-11	SHORT CHIP	0		
C1151	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	154040	4 040 000 44	OLIODE OLUD	^		
04450	4 400 007 44	OEDAMIO OLUD	400DE	F0/	E0) /	JR1016	1-216-296-11	SHORT CHIP	0		
C1152	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	JR1017	1-216-296-11	SHORT CHIP	0		
C1153 C1155	1-162-927-11	CERAMIC CHIP	100PF	5% 20%	50V	JR1018	1-216-296-11	SHORT CHIP	0		
C1155	1-126-947-11 1-164-156-11	ELECT CERAMIC CHIP	47uF	20%	35V 25V	JR1019 JR1020	1-216-296-11 1-216-296-11	SHORT CHIP SHORT CHIP	0		
C1130	1-104-150-11	CERAIVIIC CHIP	U. IUF		237	JK1020	1-210-290-11	SHOKT CHIP	U		
		< CONNECTOR	>			JR1021	1-216-296-11	SHORT CHIP	0		
						JR1022	1-216-296-11	SHORT CHIP	0		
CN1102	1-564-720-11	PIN, CONNECTO	OR (SMALL	TYPE) 4P		JR1023	1-216-864-11	SHORT CHIP	0		
CN1103	1-564-719-11	PIN, CONNECTO	OR (SMALL	TYPE) 3P		JR1024	1-216-296-11	SHORT CHIP	0		
CN1105	1-784-784-11	CONNECTOR, F	FC 23P			JR1025	1-216-296-11	SHORT CHIP	0		
		21025				15.4000	4 040 000 44	011007.0110	•		
		< DIODE >				JR1026	1-216-296-11	SHORT CHIP	0		
D4404	C F00 4C0 04	DI CLI 20CUDTA	11110			JR1027	1-216-296-11	SHORT CHIP	0		
D1101 D1102	6-502-469-01	DI SLI-325URT31				JR1028	1-216-296-11	SHORT CHIP	0		
D1102 D1104	6-501-752-01 8-719-060-27	DIODE MAZ808				JR1029 JR1030	1-216-296-11 1-216-296-11	SHORT CHIP SHORT CHIP	0		
D1104 D1105	6-503-224-01	DI 1L0351V22F0				31/1030	1-210-230-11	SHOKI CHIF	U		
D1106	6-503-224-01	DI 1L0351V22F0				JR1031	1-216-296-11	SHORT CHIP	0		
D1100	0 000 221 01	D1 12000 1 1 221 0				JR1032	1-216-296-11	SHORT CHIP	0		
D1107	6-503-224-01	DI 1L0351V22F0	MIT01			JR1033	1-216-296-11	SHORT CHIP	0		
D1108	6-503-224-01	DI 1L0351V22F0				JR1034	1-216-296-11	SHORT CHIP	0		
D1109	6-503-224-01	DI 1L0351V22F0	MIT01			JR1035	1-216-864-11	SHORT CHIP	0		
D1110	6-503-224-01	DI 1L0351V22F0	MIT01								
						JR1036	1-216-864-11	SHORT CHIP	0		
		< FLUORESCEN	II INDICATO	OK TUBE >	>			< TRANSISTOR			
FL1100	1-483-077-11	VACUUM FLUOF	RESCENT D	ISPI AYS				< TRANSISTOR			
121100	1 100 011 11	W1000W1200	(LOOLIVI D	101 1110		Q1118	8-729-620-07	TRANSISTOR	2SC3052E	F-T1-LEF	:
		< IC >				Q1119	8-729-620-07	TRANSISTOR	2SC3052E		
						Q1120	8-729-620-07	TRANSISTOR	2SC3052E	F-T1-LEF	:
IC1100	6-600-768-01	IC PNA4823M03	3S0			Q1121	8-729-620-07	TRANSISTOR	2SC3052E	F-T1-LEF	:
IC1101	6-713-680-01	IC PT6324-Q				Q1122	8-729-620-07	TRANSISTOR	2SC3052E	F-T1-LEF	
			0.700					DEGISTOR			
		< JUMPER RESI	510R >					< RESISTOR >			
JR1001	1-216-295-91	SHORT CHIP	0			R1100	1-216-819-11	METAL CHIP	680	5%	1/10W
JR1002	1-216-864-11	SHORT CHIP	0			R1101	1-216-821-11	METAL CHIP	1K	5%	1/10W
JR1003	1-216-295-91	SHORT CHIP	0			R1102	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
JR1004	1-216-296-11	SHORT CHIP	0			R1103	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
JR1005	1-216-296-11	SHORT CHIP	0			R1104	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
ID 1000	4 040 000 41	OLIODE CLUB	0			D4405	4 040 007 44	METAL OLUB	0.014	F0/	4/4014/
JR1006	1-216-296-11	SHORT CHIP	0			R1105	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
JR1007	1-216-296-11	SHORT CHIP	0			R1106	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

DISPLAY DMB19

D (N	D (N)	D			Б	L D ()	D (N	D			Б
Ref. No.	Part No.	<u>Description</u>			Remark	Ref. No.	Part No.	Description			Remark
R1107	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	S1118	1-771-410-21	SWITCH, TACTIL			
R1108 R1113	1-216-833-11 1-216-819-11	METAL CHIP METAL CHIP	10K 680	5% 5%	1/10W 1/10W	S1119	1-771-410-21	SWITCH, TACTIL	E (TAPE/PC	(ز	
IXIIIJ	1-210-019-11	WIL TAL OTTI	000	370	1/1044	S1124	1-771-410-21	SWITCH, TACTIL	E (USB A)		
R1114	1-216-821-11	METAL CHIP	1K	5%	1/10W	S1125	1-771-410-21	SWITCH, TACTIL	,)	
R1115	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	S1126	1-771-410-21	SWITCH, TACTIL	E (REC TO	USB B)	
R1116	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	S1127	1-771-410-21	SWITCH, TACTIL			
R1117	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	S1128	1-771-410-21	SWITCH, TACTIL	E (USB B)		
R1118	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	S1129	1-771-410-21	SWITCH, TACTIL	E (DISC 1)		
R1119	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	S1129 S1130	1-771-410-21	SWITCH, TACTIL			
R1120	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	S1131	1-771-410-21	SWITCH, TACTIL			
R1121	1-216-833-11	METAL CHIP	10K	5%	1/10W	S1132	1-771-410-21	SWITCH, TACTIL		/CLOSE)	
R1158	1-216-841-11	METAL CHIP	47K	5%	1/10W	S1133	1-771-410-21	SWITCH, TACTIL			
R1160	1-216-841-11	METAL CHIP	47K	5%	1/10W	*******	*********	******	******	******	*******
R1161	1-216-821-11	METAL CHIP	1K	5%	1/10W		A-1745-142-A	DMB19 BOARD,	COMDI ETE		
R1162	1-216-819-11	METAL CHIP	680	5%	1/10W		A-114J-142-A	*********			
R1163	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R1164	1-216-823-11	METAL CHIP	1.5K	5%	1/10W			< CAPACITOR >			
R1165	1-216-823-11	METAL CHIP	1.5K	5%	1/10W						
						C101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R1166	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	C102	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R1167	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	C105	1-128-994-21	ELECT CHIP	47uF	20%	10V
R1168 R1169	1-216-829-11 1-218-867-11	METAL CHIP METAL CHIP	4.7K 6.8K	5% 0.5%	1/10W 1/10W	C106 C108	1-162-970-11 1-162-965-11	CERAMIC CHIP	0.01uF 0.0015uF	10% 10%	25V 50V
R1170	1-216-833-11	METAL CHIP	10K	5%	1/10W	0100	1-102-903-11	CLINAIVIIC CI III	0.001301	10 /0	J0 V
111110	1 210 000 11	WE 17 (2 OT 11)	1011	070	171011	C111	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R1171	1-216-833-11	METAL CHIP	10K	5%	1/10W	C112	1-128-994-21	ELECT CHIP	47uF	20%	10V
R1173	1-216-821-11	METAL CHIP	1K	5%	1/10W	C113	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R1174	1-216-821-11	METAL CHIP	1K	5%	1/10W	C115	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R1189	1-216-819-11	METAL CHIP	680	5%	1/10W	C116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R1190	1-216-819-11	METAL CHIP	680	5%	1/10W	C118	1-124-779-00	ELECT CHIP	10uF	20%	16V
R1195	1-216-819-11	METAL CHIP	680	5%	1/10W	C110	1-137-710-91	CERAMIC CHIP	10uF	20%	6.3V
R1196	1-216-819-11	METAL CHIP	680	5%	1/10W	C124	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
R1198	1-216-819-11	METAL CHIP	680	5%	1/10W	C125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
R1199	1-216-819-11	METAL CHIP	680	5%	1/10W	C126	1-137-710-91	CERAMIC CHIP	10uF	20%	6.3V
R1201	1-216-833-11	METAL CHIP	10K	5%	1/10W						
D4000	1 010 000 11	METAL OLUB	4016	5 0/	4/4014/	C127	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
R1203 R1205	1-216-833-11 1-216-833-11	METAL CHIP METAL CHIP	10K 10K	5% 5%	1/10W 1/10W	C144 C145	1-162-970-11 1-162-970-11	CERAMIC CHIP	0.01uF 0.01uF	10% 10%	25V 25V
R1203	1-216-833-11	METAL CHIP	10K	5% 5%	1/10W	C145	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
R1207	1-216-809-11	METAL CHIP	100	5%	1/10W	C149	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R1210	1-216-809-11	METAL CHIP	100	5%	1/10W						
						C150	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R1211	1-216-809-11	METAL CHIP	100	5%	1/10W	C151	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R1215	1-216-845-11	METAL CHIP	100K	5%	1/10W	C152	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
		< SWITCH >				C153 C154	1-162-916-11 1-107-826-11	CERAMIC CHIP	12PF 0.1uF	5% 10%	50V 16V
		< 3WITCH >				0134	1-107-020-11	CLINAIVIIC CI III	U. IUI	10 /0	10 V
S1100	1-771-410-21	SWITCH, TACTI	LE (I/(^I) ST	ANDBY)		C155	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
S1101	1-771-410-21	SWITCH, TACTI				C156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
S1102	1-771-410-21	SWITCH, TACTI	\	- ,		C160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
S1103	1-771-410-21	SWITCH, TACTI	,	,		C168	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
S1104	1-771-410-21	SWITCH, TACTI	LE (ERASE	Ξ)		C169	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
S1105	1-771-410-21	SWITCH, TACTI	I E (EO BA	ND/SLIDDO	ווווח)	C172	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
S1105 S1106	1-771-410-21	SWITCH, TACTI			JOND)	C172	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V 25V
S1107	1-771-410-21	SWITCH, TACTI				C179	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
S1108	1-771-410-21	SWITCH, TACTI	,	,		C180	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
S1109	1-771-410-21	SWITCH, TACTI	LE (SUBW	OOFER)		C181	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
04440	4 774 440 04	CMITOLI TACT	U.E. /- `			0400	4 405 000 11	OFDAMO OUE	4	400/	40) (
S1110 S1111	1-771-410-21 1-771-410-21	SWITCH, TACTI SWITCH, TACTI				C183 C188	1-165-908-11 1-164-315-11	CERAMIC CHIP	1uF 470PF	10% 5%	10V 50V
S1111	1-771-410-21	SWITCH, TACTI	٠,			C190	1-128-995-21	ELECT CHIP	100uF	20%	10V
S1112	1-771-410-21	SWITCH, TACTI		■ TUNIN	G -)	C190	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
S1114	1-771-410-21	SWITCH, TACTI			,	C192	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
S1115	1-771-410-21	SWITCH, TACTI	,	TUNIN	G +)	C193	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
S1116	1-771-410-21	SWITCH, TACTI				C195	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
S1117	1-771-410-21	SWITCH, TACTI	∟⊏ (□+)			C197	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

DMB19

	N	D (1)	B			Б	I D ()	D (N)	B			
Ī	Ref. No.	Part No.	<u>Description</u>			Remark	Ref. No.	Part No.	<u>Description</u>			Remark
	C198	1-165-908-11	CERAMIC CHIP	1uF	10%	10V			< DIODE >			
	C199	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	D001	6-500-848-01	DIODE MC2840	T112 1		
	C203	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D001	6-500-848-01	DIODE MC2840			
	C205	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	D002	6-500-848-01	DIODE MC2840			
	C206	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	D003	6-500-848-01	DIODE MC2840			
	C208	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D004	6-500-848-01	DIODE MC2840			
	C209	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	D003	0-300-040-01	DIODE WOZO+C	-1112-1		
	0200	1 101 011 11	OLI U IIII O OI III	0.00001	1070	101			< EARTH TERMI	NAI >		
	C210	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
	C211	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	ET001	1-780-482-11	EARTH TERMINA	AL		
	C212	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	ET002	1-780-482-11	EARTH TERMINA			
	C213	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	ET003	1-780-482-11	EARTH TERMINA	AL		
	C214	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	ET004	1-780-482-11	EARTH TERMINA	AL		
	C215	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V			< FERRITE BEAL) >		
	C216	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
	C217	1-117-681-11	ELECT CHIP	100uF	20%	16V	FB108	1-469-324-21	FERRITE, EMI (S	SMD) (2012)		
	C218	1-128-994-21	ELECT CHIP	47uF	20%	10V	FB603	1-469-324-21	FERRITE, EMI (S			
	C219	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	FB607	1-469-324-21	FERRITE, EMI (S	, , ,		
							FB1264	1-469-118-21	FERRITE, EMI (S	, , ,		
	C220	1-128-994-21	ELECT CHIP	47uF	20%	10V	FB1265	1-469-118-21	FERRITE, EMI (S	SMD) (1608)		
	C221	1-164-360-11	CERAMIC CHIP	0.1uF		16V						
	C222	1-164-360-11	CERAMIC CHIP	0.1uF		16V	FB1266	1-469-118-21	FERRITE, EMI (S			
	C224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	FB1267	1-469-118-21	FERRITE, EMI (S	, , ,		
	C233	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	FB1268	1-469-118-21	FERRITE, EMI (S	SMD) (1608)		
	C502	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V			< FLUORESCEN	T INDICATO	D TI IDE S	
	C602	1-128-995-21	ELECT CHIP	100uF	20%	10V 10V			< FLOORESCEN	I INDICATO	K IUDE /	
	C603	1-128-995-21	ELECT CHIP	100ul 100uF	20%	10V 10V	FL603	1-234-494-21	FILTER, EMI REI	MOVAL (SME))	
	C604	1-128-995-21	ELECT CHIP	100uF	20%	10V 10V	1 2003	1-254-454-21	I ILILIX, LIVII IXLI	VIOVAL (SIVIL	,	
	C608	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V			< IC >			
			02.0									
	C611	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V	IC101	6-714-821-01	IC CXD9968R (LE)		
	C620	1-164-360-11	CERAMIC CHIP	0.1uF		16V	IC102	(Not supplied)	IC MX25L1605E)M2I-12G		
	C621	1-164-360-11	CERAMIC CHIP	0.1uF		16V	IC104	6-714-642-01	IC EM638165 T	SA-6G		
	C622	1-164-360-11	CERAMIC CHIP	0.1uF		16V	IC107	6-702-302-01	IC TK11133CSC	L-G		
	C623	1-164-360-11	CERAMIC CHIP	0.1uF		16V	IC111	6-706-838-01	IC MM1661JHB	E		
	04504	4 400 000 44	0504440 0140	00005	400/	50) /	10004	0.704.504.04	10 541100001			
	C1504	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	IC201	6-704-524-01	IC FAN8036L	.		
	C1505	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	IC4601	6-710-554-01	IC PCM1808PW			
	C1506	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	IC4602	6-704-819-01	IC CS4335-KSZ	.K		
	C1507 C1512	1-107-826-11 1-107-826-11	CERAMIC CHIP	0.1uF 0.1uF	10% 10%	16V 16V			< TRANSISTOR	>		
	01312	1-107-020-11	CEIVAINIC CITII	o. rui	10 /0	10 V			· ITANOISTOIC			
	C1513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	Q101	6-550-008-01	TRANSISTOR	UM6K1N-T	N	
	C1514	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	Q102	6-550-653-01	TRANSISTOR	QST8TR		
	C1515	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	Q103	8-729-027-52	TRANSISTOR	DTC124EK	(A-T146	
	C1516	1-162-919-11	CERAMIC CHIP	22PF	5%	50V						
	C4602	1-164-360-11	CERAMIC CHIP	0.1uF		16V			< RESISTOR >			
	C4603	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R101	1-216-809-11	METAL CHIP	100	5%	1/10W
	C4606	1-164-360-11	CERAMIC CHIP	0.1uF		16V	R102	1-216-864-11	SHORT CHIP	0		
	C4608	1-124-779-00	ELECT CHIP	10uF	20%	16V	R103	1-218-864-11	METAL CHIP	5.1K	0.5%	1/10W
	C4622	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R107	1-216-833-11	METAL CHIP	10K	5%	1/10W
	C4623	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R108	1-216-857-11	METAL CHIP	1M	5%	1/10W
	C4626	1 162 070 11	CEDAMIC CHID	0.01	100/	25V	D100	1-216-809-11	METAL CHID	100	E0/	1/10\\
	C4626	1-162-970-11	CERAMIC CHIP	0.01uF	10%	237	R109 R110	1-216-841-11	METAL CHIP METAL CHIP	100 47K	5% 5%	1/10W 1/10W
			< CONNECTOR >	•			R111	1-216-809-11	METAL CHIP	47K 100	5% 5%	1/10W
			- OUNINLOTOR >				R112	1-210-009-11	METAL CHIP	22	0.5%	1/10W
	CN101	1-815-763-32	CONNECTOR, FR	C/FPC 24P			R113	1-211-977-11	METAL CHIP	22	0.5%	1/10W
	CN101	1-770-470-21	PIN, CONNECTO		RD) 6P		11110	1211-011-11	WIE IAE OITH		0.070	17 1 0 4 4
	CN103	1-770-470-21	PIN, CONNECTO				R114	1-216-845-11	METAL CHIP	100K	5%	1/10W
	CN601	1-778-795-21	PIN, CONNECTO				R115	1-211-977-11	METAL CHIP	22	0.5%	1/10W
*	CN1105	1-750-005-11	PIN, CONNECTO				R116	1-216-821-11	METAL CHIP	1K	5%	1/10W
	2		, 5511112010		,		R117	1-216-841-11	METAL CHIP	47K	5%	1/10W
	CN1106	1-784-861-51	CONNECTOR, FR	C (LIF (NO	N-ZIF)) 9P		R118	1-216-801-11	METAL CHIP	22	5%	1/10W
	CN4602	1-784-859-51	CONNECTOR, FR									

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

DMB19 HUB

Dof No	Part No	Description			Domark	Ref. No.	Part No	Description			Domark
Ref. No.	Part No.	<u>Description</u>		=0/	Remark		Part No.	<u>Description</u>	417	=0/	Remark
R120	1-216-801-11	METAL CHIP	22	5%	1/10W	R1249	1-216-821-11	METAL CHIP	1K	5%	1/10W
R121 R122	1-216-801-11 1-216-833-11	METAL CHIP METAL CHIP	22 10K	5% 5%	1/10W 1/10W	R1250 R1252	1-216-295-91 1-216-295-91	SHORT CHIP SHORT CHIP	0		
R123	1-216-809-11	METAL CHIP	100	5%	1/10W	R1255	1-216-295-91	SHORT CHIP	0		
R124	1-216-841-11	METAL CHIP	47K	5%	1/10W	R1256	1-216-295-91	SHORT CHIP	0		
D405	4 040 000 44	METAL CLUB	101/	E0/	4/40\\	D4004	4 040 000 44	METAL CLUB	101/	F0/	4/40\\\
R125 R133	1-216-833-11 1-216-864-11	METAL CHIP SHORT CHIP	10K 0	5%	1/10W	R1261 R1262	1-216-833-11 1-216-833-11	METAL CHIP METAL CHIP	10K 10K	5% 5%	1/10W 1/10W
R136	1-216-835-11	METAL CHIP	15K	5%	1/10W	R1263	1-216-864-11	SHORT CHIP	0	370	1/1000
R142	1-216-845-11	METAL CHIP	100K	5%	1/10W	R1269	1-216-809-11	METAL CHIP	100	5%	1/10W
R156	1-216-809-11	METAL CHIP	100	5%	1/10W	R1276	1-216-864-11	SHORT CHIP	0	0,70	.,
R204	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	R1277	1-216-809-11	METAL CHIP	100	5%	1/10W
R205	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1278	1-216-833-11	METAL CHIP	10K	5%	1/10W
R206	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1279	1-216-833-11	METAL CHIP	10K	5%	1/10W
R207	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	R1280	1-216-864-11	SHORT CHIP	0		
R208	1-216-839-11	METAL CHIP	33K	5%	1/10W	R1281	1-216-864-11	SHORT CHIP	0		
R209	1-216-839-11	METAL CHIP	33K	5%	1/10W	R1282	1-216-864-11	SHORT CHIP	0		
R210	1-216-841-11	METAL CHIP	47K	5%	1/10W	R1283	1-216-864-11	SHORT CHIP	0		
R212	1-216-833-11	METAL CHIP	10K	5%	1/10W	R4601	1-216-809-11	METAL CHIP	100	5%	1/10W
R213	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	R4602	1-216-809-11	METAL CHIP	100	5%	1/10W
R214	1-216-835-11	METAL CHIP	15K	5%	1/10W	R4605	1-469-112-11	FERRITE, EMI (S	SMD) (1608)		
R215	1-216-834-11	METAL CHIP	12K	5%	1/10W	R4606	1-216-801-11	METAL CHIP	22	5%	1/10W
R216	1-216-834-11	METAL CHIP	12K	5%	1/10W	R4608	1-216-864-11	SHORT CHIP	0		
R219	1-216-838-11	METAL CHIP	27K	5%	1/10W	R4609	1-216-864-11	SHORT CHIP	0		
R220	1-216-821-11	METAL CHIP	1K	5%	1/10W	R4611	1-216-864-11	SHORT CHIP	0		
R221	1-218-889-11	METAL CHIP	56K	0.5%	1/10W	R4833	1-216-864-11	SHORT CHIP	0		
R223	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	R4834	1-216-864-11	SHORT CHIP	0		
R224	1-216-833-11	METAL CHIP	10K	5%	1/10W	R4835	1-216-295-91	SHORT CHIP	0		
R225	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	R4837	1-216-864-11	SHORT CHIP	0		
R226	1-218-889-11	METAL CHIP	56K	0.5%	1/10W	R4838	1-216-864-11	SHORT CHIP	0		
R230	1-218-893-11	METAL CHIP	82K	0.5%	1/10W			< COMPOSITION		I OCK >	
R231	1-218-875-11	METAL CHIP	15K	0.5%	1/10W			< COMPOSITIO	N CIRCUIT E	LUCK >	
R232	1-218-877-11	METAL CHIP	18K	0.5%	1/10W	RB105	1-234-400-21	CONDUCTOR, N	NETWORK (1	005X4)	
R233	1-218-883-11	METAL CHIP	33K	0.5%	1/10W	RB106	1-234-400-21	CONDUCTOR, N	NETWORK (1	005X4)	
R234	1-216-833-11	METAL CHIP	10K	5%	1/10W	RB107	1-234-400-21	CONDUCTOR, N	,	,	
R246	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	RB108 RB111	1-234-400-21 1-234-400-21	CONDUCTOR, N CONDUCTOR, N	,	,	
R247	1-216-821-11	METAL CHIP	1K	5%	1/10W	וווטא	1-234-400-21	CONDUCTOR, I	VL I WORK (1003/4)	
R256	1-216-833-11	METAL CHIP	10K	5%	1/10W	RB112	1-234-400-21	CONDUCTOR, N	NETWORK (1	005X4)	
R521	1-216-833-11	METAL CHIP	10K	5%	1/10W	RB113	1-234-400-21	CONDUCTOR, N	,	,	
R605	1-216-295-91	SHORT CHIP	0			RB114	1-234-400-21	CONDUCTOR, N			
R606	1-216-295-91	SHORT CHIP	0			RB115	1-234-400-21	CONDUCTOR, N	NETWORK (1	005X4)	
R608	1-216-295-91	SHORT CHIP	0					< VIBRATOR >			
R630	1-216-295-91	SHORT CHIP	0								
R1101	1-218-841-11	METAL CHIP	560	0.5%	1/10W	X101	1-814-103-21	VIBRATOR, CRY			
R1110	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	*******	******	******	******	*****	******
R1114	1-500-903-21	EMI FERRITE (S	MD)				A-1750-170-A	HUB BOARD, CO	OMDLETE		
R1121	1-216-864-11	SHORT CHIP	0				Λ-1130-110-A	********			
R1123	1-216-864-11	SHORT CHIP	0								
R1129	1-216-845-11	METAL CHIP	100K	5%	1/10W			< CAPACITOR >			
R1150	1-216-827-11	METAL CHIP	3.3K	5%	1/10W						
R1151	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	C1500	1-100-597-91	CERAMIC CHIP		10%	25V
R1152	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	C1501 C1502	1-165-989-11 1-100-597-91	CERAMIC CHIP	10uF 0.1uF	10% 10%	6.3V 25V
R1168	1-218-835-11	METAL CHIP	330	0.5%	1/10W	C1502	1-100-597-91	CERAMIC CHIP	10PF	0.5PF	25 V 50 V
R1177	1-216-864-11	SHORT CHIP	0	0.5 /0	1/1044	C1503	1-162-919-11	CERAMIC CHIP	22PF	5%	50V 50V
R1177	1-216-821-11	METAL CHIP	1K	5%	1/10W	01004	1 102-010-11	OLI CAMIO OI IIF	<i>ـ</i> ــــ ۱	J /0	00 V
R1184	1-216-809-11	METAL CHIP	100	5%	1/10W	C1505	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C1506	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
R1191	1-216-864-11	SHORT CHIP	0			C1507	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
R1192	1-216-864-11	SHORT CHIP	0			C1508	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
R1193	1-216-864-11	SHORT CHIP	0			C1510	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
R1194	1-216-864-11	SHORT CHIP	0			04544	1 160 070 44	CEDAMIC CLUB	0.04	100/	251/
R1248	1-216-295-91	SHORT CHIP	0			C1511 C1512	1-162-970-11 1-165-989-11	CERAMIC CHIP	0.01uF 10uF	10% 10%	25V 6.3V
						1 01012	1-100-202-11	OLNAMIC CHIP	IUUF	1070	0.5 v

HUB MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
-	1-162-970-11		0.04 5	400/	25V				4	F0/	
C1513 C1514	1-162-970-11	CERAMIC CHIP	0.01uF 10uF	10%	25V 6.3V	R1522 R1523	1-218-446-11 1-218-446-11	METAL CHIP METAL CHIP	1	5% 5%	1/10W 1/10W
C1514 C1515	1-162-989-11	CERAMIC CHIP	0.01uF	10% 10%	6.3V 25V	R1523	1-218-446-11	METAL CHIP	1	5% 5%	1/10W
01313	1-102-970-11	CERAIVIIC CHIP	U.UTUF	10 %	237	R1524	1-218-446-11	METAL CHIP	1	5% 5%	1/10W
C1516	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	R1526	1-218-446-11	METAL CHIP	1	5%	1/10W
C1517	1-100-597-91	CERAMIC CHIP	0.01di 0.1uF	10%	25V 25V	1(1320	1-210-440-11	WE TAL OTH	1	J /0	1/1000
C1518	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	R1527	1-216-809-11	METAL CHIP	100	5%	1/10W
C1519	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	R1530	1-216-857-11	METAL CHIP	1M	5%	1/10W
C1520	1-137-765-21	ELECT CHIP	47uF	20%	16V	R1533	1-216-845-11	METAL CHIP	100K	5%	1/10W
						R1537	1-216-845-11	METAL CHIP	100K	5%	1/10W
C1521	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	R1538	1-216-845-11	METAL CHIP	100K	5%	1/10W
C1522	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V						
C1523	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	R1540	1-216-845-11	METAL CHIP	100K	5%	1/10W
C1524	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	R1541	1-216-809-11	METAL CHIP	100	5%	1/10W
C1527	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	R1542	1-216-845-11	METAL CHIP	100K	5%	1/10W
0.4500	4 400 507 04	0554440 0145	0.4.5	400/	05) (R1543	1-216-833-11	METAL CHIP	10K	5%	1/10W
C1528	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	R1544	1-216-833-11	METAL CHIP	10K	5%	1/10W
C1529 C1530	1-100-597-91	CERAMIC CHIP	0.1uF 5PF	10% 0.25PF	25V 50V	D1546	1-216-809-11	METAL CLUD	100	5%	1/10\\\
C1530	1-162-910-11 1-162-910-11	CERAMIC CHIP		0.25PF		R1546 R1547	1-216-834-11	METAL CHIP METAL CHIP	100 12K	5% 5%	1/10W 1/10W
C 133 I	1-102-910-11	CERAIVIIC CHIP	SFF	0.23FF	30 V	K1341	1-210-034-11	METAL CHIP	IZK	370	1/1000
		< CONNECTOR	>					< VIBRATOR >			
CN1500	1-774-731-21	PIN, CONNECTO				X1500	1-760-613-21	VIBRATOR, CRY:			and the standards of the standards
CN1501	1-774-729-21	PIN, CONNECTO				******	******	****	*****	*****	****
CN1502	1-785-728-21	PIN (PC BOARD)), CONNECT	IOR /P			A 1750 177 A	MAIN DOADD C	OMDLETE		
		< EARTH TERMI	NIAI S				A-1750-177-A	MAIN BOARD, CO (GTR33: E2, E51)			
		CARITITERIVII	NAL /				A-1750-180-A		. ,		
* ET1500	1-780-408-11	TERMINAL, LUG					A-1730-100-A	(GTR55: E2, E51.			
* ET1501	1-780-408-11	TERMINAL, LUG					A-1750-183-A	,			
211001	1 700 100 11	121111111111111111111111111111111111111					71 1100 100 71	(GTR77: E2, E51,			
		< FERRITE BEAL) >				A-1754-378-A	MAIN BOARD, CO	OMPLETE (
. =5.1=00							A-1754-384-A	,			
* FB1500	1-400-973-21	INDUCTOR (EMI	,				A-1754-390-A	MAIN BOARD, CO		31R//: E	4)
FB1501	1-216-295-91	SHORT CHIP	0					*****	****		
* FB1502 FB1503	1-400-973-21 1-216-295-91	INDUCTOR (EMI SHORT CHIP	0				7-685-646-79	SCREW +BVTP 3	VO TVDEO I	тэ	
* FB1505	1-400-973-21	INDUCTOR (EMI	-				7-003-040-79	SCILW TOVIE	DAO IIFLZI	1-5	
1 1 1000	1 400 070 21	II VDOOTOIT (EMI	r Eraare)					< CAPACITOR >			
		< IC >									
						C102	1-126-963-11	ELECT	4.7uF	20%	50V
IC1500	8-759-338-95	IC NJM2903V (7				C109	1-126-964-11	ELECT	10uF	20%	50V
IC1501	6-714-034-01	IC USB2512A-A	EZG			C110	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
						C111	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
		< RESISTOR >				C112	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
D4500	4 040 000 44	METAL CLUD	100	F0/	4/40\4/	0445	1 100 010 11	CEDAMIC CUID	2205	F0/	F0\/
R1500	1-216-809-11 1-216-837-11	METAL CHIP METAL CHIP	100 22K	5%	1/10W	C115	1-162-919-11 1-162-919-11	CERAMIC CHIP	22PF 22PF	5%	50V 50V
R1501 R1503	1-216-815-11	METAL CHIP	330	5% 5%	1/10W 1/10W	C116 C118	1-102-919-11	CERAMIC CHIP ELECT	2.2uF	5% 20%	50V 50V
R1504	1-218-446-11	METAL CHIP	1	5%	1/10W	C120	1-100-385-91	CERAMIC CHIP	0.47uF	2070	25V
R1505	1-218-446-11	METAL CHIP	1	5%	1/10W	C123	1-126-964-11	ELECT	10uF	20%	50V
				0 / 0		0.20				2070	
R1506	1-218-446-11	METAL CHIP	1	5%	1/10W	C124	1-126-960-11	ELECT	1uF	20%	50V
R1507	1-218-446-11	METAL CHIP	1	5%	1/10W	C125	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
R1508	1-218-446-11	METAL CHIP	1	5%	1/10W	C127	1-137-190-91	FILM	0.22uF	5%	50V
R1509	1-218-446-11	METAL CHIP	1	5%	1/10W						(GTR33)
R1510	1-218-446-11	METAL CHIP	1	5%	1/10W	C127	1-136-171-00	FILM	0.33uF	5%	50V
5.15.11				=0/	4/4014	0.400		=	0.40 =		R55/GTR77)
R1511	1-218-446-11	METAL CHIP	1	5%	1/10W	C128	1-136-498-81	FILM	0.12uF	5%	50V
R1512	1-218-446-11	METAL CHIP	1	5%	1/10W					(GT	R55/GTR77)
R1513 R1515	1-218-446-11 1-216-837-11	METAL CHIP METAL CHIP	1 22K	5% 5%	1/10W 1/10W	C128	1-137-189-11	FILM	0.18uF	5%	50V
R1515	1-216-837-11	METAL CHIP	330	5% 5%	1/10W	U120	1-101-109-11	ı ILIVI	U. 10UF	J /0	(GTR33)
K1910	1-2 10-0 13-11	IVIL IAL UNIF	550	J /0	1/ 10 0 0	C129	1-126-961-11	ELECT	2.2uF	20%	(G1R33) 50V
R1517	1-218-446-11	METAL CHIP	1	5%	1/10W	C131	1-126-964-11	ELECT	10uF	20%	50V
R1518	1-218-446-11	METAL CHIP	1	5%	1/10W	C132	1-136-161-00	FILM	0.047uF	5%	50V
R1519	1-218-446-11	METAL CHIP	1	5%	1/10W	C133	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
R1520	1-218-446-11	METAL CHIP	1	5%	1/10W						
R1521	1-218-446-11	METAL CHIP	1	5%	1/10W	C134	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C135	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C137	1-126-964-11	ELECT	10uF	20%	50V

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Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C139	1-135-834-91	CERAMIC CHIP	2.2E+06PF		6.3V 10V	C275 C277	1-162-964-11 1-126-964-11	CERAMIC CHIP ELECT	0.001uF	10% 20%	50V 50V
C142	1-117-720-11	CERAMIC CHIP	4.7uF		100	C277	1-126-964-11	CERAMIC CHIP	10uF 0.1uF	10%	50V 50V
C143	1-117-720-11	CERAMIC CHIP	4.7uF		10V	C281	1-162-913-11	CERAMIC CHIP	8PF	0.5PF	50V
C144	1-126-964-11	ELECT	10uF	20%	50V	C284	1-104-658-91	ELECT	100uF	20%	10V
C145	1-117-720-11	CERAMIC CHIP	4.7uF		10V			0== 11110 01115		400/	=0\/
C146 C147	1-117-720-11 1-126-959-11	CERAMIC CHIP ELECT	4.7uF 0.47uF	20%	10V 50V	C285 C286	1-162-964-11 1-126-935-11	CERAMIC CHIP ELECT	0.001uF 470uF	10% 20%	50V 16V
C147	1-120-959-11	ELECT	0.47 ur	20%	30 V	C287	1-126-933-11	ELECT	10uF	20%	50V
C148	1-104-658-91	ELECT	100uF	20%	10V	C288	1-126-960-11	ELECT	1uF	20%	50V
C149	1-104-658-91	ELECT	100uF	20%	10V	C290	1-136-164-00	FILM	0.082uF	5%	50V
C150	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V						
C151 C152	1-100-597-91 1-100-756-91	CERAMIC CHIP	0.1uF 0.047uF	10% 10%	25V 50V	C292	1-137-194-81	FILM	0.47uF	5%	50V (CTP55)
0102	1-100-750-91	CERAINIC CHIP	0.047uF	10 %	30 V	C292	1-136-176-00	FILM	0.82uF	5%	(GTR55) 50V
C153	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	0202			0.020.	0,0	(GTR33)
C154	1-126-935-11	ELECT	470uF	20%	16V	C292	1-137-198-81	FILM	1uF	5%	50V
C160	1-162-923-11	CERAMIC CHIP	47PF	5%	50V			0== 11110 01115			(GTR77)
C161	1-162-962-11	CERAMIC CHIP	470PF 470PF	10%	50V 50V	C293	1-100-717-91 1-162-963-11	CERAMIC CHIP	1uF 680PF	100/	16V 50V
C162	1-162-962-11	CERAMIC CHIP	4/UPF	10%	50 V	C321	1-102-903-11	CERAMIC CHIP	DOUPF	10%	201
C163	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C322	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
C164	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C380	1-136-162-00	FILM	0.056uF	5%	50V
C165	1-162-962-11	CERAMIC CHIP	470PF	10%	50V						(GTR77)
C177	1-136-498-81	FILM	0.12uF	5%	50V	C380	1-136-495-11	FILM	0.068uF	5%	50V
C177	1-137-189-11	FILM	0.18uF	5%	R55/GTR77) 50V	C382	1-136-162-00	FILM	0.056uF	5%	R33/GTR55) 50V
0111	1 107 100 11	I ILIVI	0.1001	0 70	(GTR33)	0002	1 100 102 00	I ILIVI	0.00001	070	(GTR33)
					(/	C382	1-136-495-11	FILM	0.068uF	5%	50V
C178	1-137-190-91	FILM	0.22uF	5%	50V					(GT	R55/GTR77)
0470	1 120 171 00	EU M	0.22	F0/	(GTR33)	0202	4 427 400 44	TII M	0.40	Ε0/	F0\/
C178	1-136-171-00	FILM	0.33uF	5% (GTI	50V R55/GTR77)	C383 C390	1-137-189-11 1-115-339-11	FILM CERAMIC CHIP	0.18uF 0.1uF	5% 10%	50V 50V
C179	1-126-961-11	ELECT	2.2uF	20%	50V	C410	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C180	1-126-960-11	ELECT	1uF	20%	50V	C411	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C181	1-126-964-11	ELECT	10uF	20%	50V	C414	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
0400	4 400 404 00	EU M	0.047 5	F0/	F0\/	0447	4 400 047 44	FLEOT	2200 5	000/	0.01/
C182 C183	1-136-161-00 1-162-970-11	FILM CERAMIC CHIP	0.047uF 0.01uF	5% 10%	50V 25V	C417 C422	1-126-917-11 1-165-176-11	ELECT CERAMIC CHIP	3300uF 0.047uF	20% 10%	6.3V 16V
C184	1-164-227-11	CERAMIC CHIP	0.01ui 0.022uF	10%	25V 25V	C423	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C185	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C424	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C187	1-126-964-11	ELECT	10uF	20%	50V	C425	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
0400	4 447 700 44	OEDAMIO OLUB	47.5		40)/	0.400	4 405 470 44	OEDAMIO OLUB	0.047 5	400/	40)/
C192 C193	1-117-720-11 1-117-720-11	CERAMIC CHIP	4.7uF 4.7uF		10V 10V	C426 C427	1-165-176-11 1-165-176-11	CERAMIC CHIP	0.047uF 0.047uF	10% 10%	16V 16V
C193	1-117-720-11	ELECT	4.7 ui 10uF	20%	50V	C427	1-165-176-11	CERAMIC CHIP	0.047ul 0.047uF	10%	16V
C195	1-117-720-11	CERAMIC CHIP	4.7uF	2070	10V	C431	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C201	1-126-961-11	ELECT	2.2uF	20%	50V	C432	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
0044	4 400 004 44	FLEOT	40 =	000/	F0\/	0404	4 400 000 44	OFDAMIO OLUD	47DE	F0/	F0\/
C211 C212	1-126-964-11 1-164-156-11	ELECT CERAMIC CHIP	10uF 0.1uF	20%	50V 25V	C434 C437	1-162-923-11 1-162-923-11	CERAMIC CHIP	47PF 47PF	5% 5%	50V 50V
C212	1-126-964-11	ELECT	10uF	20%	50V	C437	1-162-923-11	CERAMIC CHIP	47FF	5%	50V
C214	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V	C439	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C215	1-126-964-11	ELECT	10uF	20%	50V	C440	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
0040	4 407 000 44	0504440 0140	0.4.5	100/	40)/	0.404	4 400 507 04	0554440 0145	0.4.5	400/	05) (
C219 C220	1-107-826-11 1-126-947-11	CERAMIC CHIP ELECT	0.1uF 47uF	10% 20%	16V 35V	C464 C483	1-100-597-91 1-162-964-11	CERAMIC CHIP	0.1uF 0.001uF	10% 10%	25V 50V
C222	1-162-923-11	CERAMIC CHIP	47PF	5%	50V	C403	1-102-597-91	CERAMIC CHIP	0.00 Tul 0.1uF	10%	25V
C223	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C498	1-126-964-11	ELECT	10uF	20%	50V
C224	1-126-964-11	ELECT	10uF	20%	50V	C499	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
0005	4 400 004 44	FLEOT	000 5	000/	401/	0500	4 400 004 44	FLEOT	40 5	000/	F0\/
C225 C227	1-126-934-11 1-126-964-11	ELECT ELECT	220uF 10uF	20% 20%	16V 50V	C500 C550	1-126-964-11 1-162-919-11	ELECT CERAMIC CHIP	10uF 22PF	20% 5%	50V 50V
C232	1-120-964-11	CERAMIC CHIP	0.001uF	10%	50V 50V	C552	1-162-919-11	CERAMIC CHIP	22PF 22PF	5% 5%	50V 50V
C233	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C553	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C242	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C554	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
0040	4 400 747 04	OFDAMO OUE	4		401/	0555	1 100 010 11	OFDAMO OUE	0005	F0/	F0) /
C243 C270	1-100-717-91 1-126-947-11	CERAMIC CHIP ELECT	1uF 47uF	20%	16V 35V	C555 C556	1-162-919-11 1-162-919-11	CERAMIC CHIP	22PF 22PF	5% 5%	50V 50V
C270	1-120-947-11	CERAMIC CHIP	47uF 47PF	20% 5%	50V	C602	1-102-919-11	ELECT	3300uF	20%	25V
C273	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C604	1-136-497-81	FILM	0.1uF	5%	50V
C274	1-126-964-11	ELECT	10uF	20%	50V	C605	1-136-497-81	FILM	0.1uF	5%	50V

Ē	Ref. No.	Part No.	<u>Description</u>			Remark	Ref. No.	Part No.	Description		Remark
	C608	1-100-597-91		0.1uF	10%	25V	D621	6-502-272-01	DI RB055L-40TE	25	
	C609 C610	1-126-933-11 1-100-597-91	ELECT CERAMIC CHIP	100uF 0.1uF	20% 10%	16V 25V	D623	6-500-522-21	DIODE 10EDB4	0 TD2	
	C610	1-100-597-91	ELECT	100uF	20%	10V	D623	6-500-522-21	DIODE 10EDB4		
	C612	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	D628	6-501-817-01	DIODE MA2J11		
	0040		=====		000/	4017	D630	6-501-817-01	DIODE MA2J11		
	C616 C617	1-126-936-11 1-136-497-81	ELECT FILM	3300uF 0.1uF	20% 5%	16V 50V	D650	6-501-713-01	DIODE MAZ803	3G0LS0	
	C618	1-136-497-81	FILM	0.1uF	5%	50V	D651	6-500-522-21	DIODE 10EDB4	0-TB3	
	C620	1-135-372-31	ELECT	470uF	20%	10V	D652	6-500-522-21	DIODE 10EDB4		
	C621	1-128-953-31	ELECT	470uF	20%	25V	D653	6-500-522-21	DIODE 10EDB4		
	C624	1-165-728-31	ELECT	330uF	20%	16V	D691 D692	6-501-817-01 6-501-734-01	DIODE MA2J11 DIODE MAZ805		
	C625	1-126-951-11	ELECT	470uF	20%	35V	2002		2.022		
	C654	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	D694	6-501-817-01	DIODE MA2J11		
	C655 C656	1-126-923-91 1-164-156-11	ELECT CERAMIC CHIP	220uF 0.1uF	20%	10V 25V	D696	6-501-734-01	DIODE MAZ805	66GMLS0	(GTR55/GTR77)
	C030	1-104-150-11	CLIVAINIC CITII	o. rui		25 V	D699	6-500-335-01	DIODE MC2838	3-T112-1	(011133/01117)
	C660	1-126-964-11	ELECT	10uF	20%	50V					
	0000	4 400 507 04	CEDAMIC CLUD	0.4		R55/GTR77)			< IC >		
	C692 C695	1-100-597-91 1-126-933-11	CERAMIC CHIP ELECT	0.1uF 100uF	10% 20%	25V 16V	IC252	8-759-278-58	IC NJM4558V-T	F2	
	C696	1-126-961-11	ELECT	2.2uF	20%	50V	IC253	8-759-278-58	IC NJM4558V-T		
	C697	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	IC401	A-1778-942-A	IC R5F364AEDF)
	C698	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	IC407 IC600	6-712-027-01 6-713-034-01	IC R2A15216FFIC KIA7812API-		
	C699	1-100-597-91	ELECT	10uF	20%	16V	10000	0-7 13-034-01	IC KIA/012API-	U/FF	
							IC602	6-713-032-01	IC KIA7809API-	U/PF	
			< CONNECTOR >	>			IC603	6-701-761-01	IC uPC3533AHF		
	CN220	1-784-770-11	CONNECTOR, FF	=C 9P			IC677 IC678	6-712-617-01 6-713-826-01	IC SI-8008TM-T		
	CN402	1-779-277-11	CONNECTOR, FF		N-ZIF)) 9P		10070	0-7 13-020-01	10 01-000111 EI	`	
	CN403	1-568-830-11	CONNECTOR, FF	FC 11P					< JACK >		
	CN404	1-564-706-11	PIN, CONNECTO	D (SMALL T	,	R55/GTR77)	J120	1-822-758-11	JACK, PIN 2P (P	C INI)	
	C11404	1-304-700-11	FIIN, CONNECTO	IN (SIVIALL I	1747	(GTR33)	3120	1-022-730-11	JACK, FIN 2F (F	C IIV)	
	CN405	1-784-784-11	CONNECTOR, FF	FC 23P		()			< JACK >		
	CN410	1-784-774-11	CONNECTOR, FF	FC 13P			JK500	1-780-812-11	TERMINAL BOAF	RD (SPEAKER) ((SUBWOOFFR)
	CN450	1-784-770-11	CONNECTOR, FF							,	(GTR33/GTR55)
	CN470	1-564-709-11	PIN, CONNECTO		YPE) 7P		JK501	1-820-067-21	TERMINAL BOAF	RD (SPEAKER) (
	CN479 CN601	1-573-094-11 1-564-725-11	SOCKET, CONNE PIN, CONNECTO		YPF) 9P						(GTR77)
	011001	1-304-725-11	T IIV, OOIVINEOTO	TT (OWIALL I	11 L) 31				< JUMPER RESI	STOR >	
*			PLUG, CONNECT								
	CN691 CN692	1-779-277-11 1-779-544-21	CONNECTOR, FF				JR103 JR104	1-216-864-11 1-216-864-11	SHORT CHIP SHORT CHIP	0	
	CN092	1-113-344-21	CONNECTOR, 11	C (LII (NOI	N-ZII)) 1 F		JR401	1-216-296-11	SHORT CHIP	0	
			< DIODE >				JR402	1-216-296-11	SHORT CHIP	0	
	D44C	C F00 040 04	DIODE MOSSAS	T110 1			JR403	1-216-864-11	SHORT CHIP	0	
	D116 D201	6-500-848-01 6-500-848-01	DIODE MC2840- DIODE MC2840-				JR404	1-216-296-11	SHORT CHIP	0	
	D202	6-501-817-01	DIODE MA2J111				JR405	1-216-296-11	SHORT CHIP	0	
	D211	6-501-722-01	DIODE MAZ8043				JR406	1-216-864-11	SHORT CHIP	0	
	D212	6-501-817-01	DIODE MA2J111	10GLS0			JR407 JR408	1-216-864-11 1-216-296-11	SHORT CHIP SHORT CHIP	0	
	D213	6-500-334-01	DIODE MC2836-	-T112-1			311400	1-210-230-11	SHOKI CHIF	U	
	D321	6-501-579-01	DIODE MC2837				JR409	1-216-864-11	SHORT CHIP	0	
	D468	6-501-817-01	DIODE MA2J111				JR410	1-216-296-11	SHORT CHIP	0	
	D483 D484	6-501-817-01 6-501-817-01	DIODE MA2J111 DIODE MA2J111				JR411 JR412	1-216-296-11 1-216-864-11	SHORT CHIP SHORT CHIP	0	
							JR413	1-216-296-11	SHORT CHIP	0	
	D500	6-500-522-21	DIODE 10EDB40	•	55/GTR77)	10444	4 040 000 44	CHOPT OF UP	0	
	D501 D502	6-501-817-01 6-500-522-21	DIODE MA2J111 DIODE 10EDB40		55/GTR77)	JR414 JR415	1-216-296-11 1-216-864-11	SHORT CHIP SHORT CHIP	0	
	D601	6-502-994-01	DI D10XB60 F			,	JR416	1-216-296-11	SHORT CHIP	0	
	D610	6-500-522-21	DIODE 10EDB40	0-TB3			JR417	1-216-864-11	SHORT CHIP	0	
	D611	6-500-522-21	DIODE 10EDB40	U-TB3			JR418	1-216-296-11	SHORT CHIP	0	
	D611	6-500-522-21	DIODE 10EDB40				JR419	1-216-296-11	SHORT CHIP	0	
	D613	6-500-522-21	DIODE 10EDB40	0-TB3			JR420	1-216-296-11	SHORT CHIP	0	
	D620	6-502-272-01	DI RB055L-40TE2	25			JR421	1-216-296-11	SHORT CHIP	0	

Ref. No.	Part No.	Description	<u> </u>	Remark	Ref. No.	Part No.	Description			Remark
JR422	1-216-296-11	SHORT CHIP	0		Q620	8-729-620-07	TRANSISTOR	2SC3052E		F
JR423	1-216-864-11	SHORT CHIP	0		Q627	8-729-027-26	TRANSISTOR	DTA114Yk		
JR424	1-216-296-11	SHORT CHIP	0		Q628	6-551-276-01	TRANSISTOR	RT1N4310	J-1P-1	
JR425	1-216-296-11	SHORT CHIP	0		Q640	8-729-024-43	TRANSISTOR	2SA1365-	T112_1 F I	=
JR426	1-216-296-11	SHORT CHIP	0		Q641	8-729-024-43	TRANSISTOR	2SA1365-		
JR427	1-216-864-11	SHORT CHIP	0		Q643	8-729-047-62	TRANSISTOR	2SC3440-		
JR428	1-216-296-11	SHORT CHIP	0		Q644	8-729-047-62	TRANSISTOR	2SC3440-		
					Q645	8-729-024-43	TRANSISTOR	2SA1365-		=
JR429	1-216-864-11	SHORT CHIP	0							
JR430	1-216-296-11	SHORT CHIP	0		Q646	8-729-024-43	TRANSISTOR	2SA1365-	T112-1EF	=
JR431	1-216-864-11	SHORT CHIP	0		Q647	8-729-047-62	TRANSISTOR	2SC3440-	T12-1F	
JR432	1-216-296-11	SHORT CHIP	0		Q648	8-729-047-62	TRANSISTOR	2SC3440-		
JR433	1-216-296-11	SHORT CHIP	0		Q655	8-729-040-76	TRANSISTOR	KTA1273-		_
10424	1 016 006 11	CLIODT CLIID	0		Q656	8-729-620-07	TRANSISTOR	2SC3052E	:F-11-LE	F
JR434 JR435	1-216-296-11 1-216-296-11	SHORT CHIP SHORT CHIP	0		Q657	6-551-696-01	TRANSISTOR	ISA1235A	C1TD 1E	:=
JR435 JR436	1-216-296-11	SHORT CHIP	0		Q658	6-551-696-01	TRANSISTOR	ISA1235A		
JR437	1-216-864-11	SHORT CHIP	0		Q670	8-729-027-23	TRANSISTOR	DTA114Ek		.1
JR438	1-216-864-11	SHORT CHIP	0		Q681	6-551-276-01	TRANSISTOR	RT1N4310		-4)
011100	1 210 001 11	CHOILT CHIII	•		Q682	8-729-620-07	TRANSISTOR	2SC3052E	,	,
JR439	1-216-296-11	SHORT CHIP	0							()
JR440	1-216-296-11	SHORT CHIP	0		Q683	8-729-620-07	TRANSISTOR	2SC3052E	F-T1-LE	F (E4)
JR447	1-216-296-11	SHORT CHIP	0		Q684	8-729-037-13	TRANSISTOR	KTA1271Y	′ (E4)	
JR449	1-216-296-11	SHORT CHIP	0		Q696	8-729-032-94	TRANSISTOR	2SD1859T		
JR500	1-216-864-11	SHORT CHIP	0 (E4)		Q697	8-729-620-07	TRANSISTOR	2SC3052E		F
15.500		011007.0110	•		Q698	8-729-032-94	TRANSISTOR	2SD1859T		·
JR503	1-216-864-11	SHORT CHIP	0						(G	TR55/GTR77)
JR634 JR635	1-216-296-11 1-216-296-11	SHORT CHIP SHORT CHIP	0		Q699	8-729-037-13	TRANSISTOR	KTA1271Y	,	
JR636	1-216-296-11	SHORT CHIP	0		Q099	0-729-037-13	TRANSISTOR	NIAIZ/II		
JR637	1-216-290-11	SHORT CHIP	0				< RESISTOR >			
011007	1 210 004 11	OHORRI OHIII	V				TREGIOTORY			
JR638	1-216-296-11	SHORT CHIP	0		R110	1-216-845-11	METAL CHIP	100K	5%	1/10W
JR639	1-216-296-11	SHORT CHIP	0		R111	1-216-845-11	METAL CHIP	100K	5%	1/10W
JR640	1-216-864-11	SHORT CHIP	0		R112	1-216-817-11	METAL CHIP	470	5%	1/10W
					R113	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
		< COIL >			R116	1-216-809-11	METAL CHIP	100	5%	1/10W
1.000	4 400 404 04	INDUCTOR	47 11		D447	4 040 007 44	METAL OLUB	001/	E0/	4/40\4/
L623 L624	1-400-424-21 1-457-822-11	INDUCTOR INDUCTOR	47uH 47uH		R117 R118	1-216-837-11 1-216-838-11	METAL CHIP METAL CHIP	22K 27K	5% 5%	1/10W 1/10W
L024	1-437-022-11	INDUCTOR	47un		R120	1-216-838-11	METAL CHIP	27K 27K	5%	1/10W
		< TRANSISTOR	>		R121	1-216-833-11	METAL CHIP	10K	5%	1/10W
					R122	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q115	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF							
Q128	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		R127	1-216-819-11	METAL CHIP	680	5%	1/10W
Q178	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF							(GTR55)
Q210	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		R127	1-220-373-11	METAL CHIP	620	5%	1/10W
Q211	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		D400	4 040 004 44	METAL OLUB	4017		TR33/GTR77)
0212	0 700 027 12	TDANCICTOD	VTA 1071V		R128	1-216-834-11	METAL CHIP	12K	5%	1/10W
Q212 Q214	8-729-037-13 8-729-620-07	TRANSISTOR TRANSISTOR	KTA1271Y 2SC3052EF-T1-LEF		R128	1-216-835-11	METAL CHIP	15K	5%	(GTR33) 1/10W
Q214 Q215	8-729-038-28	TRANSISTOR	RT1N441C-TP-1		11120	1-210-033-11	WIL TAL CITII	IJIX		TR55/GTR77)
Q230	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		R129	1-216-864-11	SHORT CHIP	0	()	11100/01111/
4200	0 . 20 020 0.			5/GTR77)	0		0.1011.			
Q231	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF	,	R130	1-216-849-11	METAL CHIP	220K	5%	1/10W
			(GTR55	5/GTR77)	R131	1-216-849-11	METAL CHIP	220K	5%	1/10W
					R132	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q300	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		R133	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q301	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		R134	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
Q302	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		D425	1 046 000 44	METAL CLUD	101/	E0/	1/10\\\
Q303	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		R135	1-216-833-11	METAL CHIP	10K 2.7K	5% 5%	1/10W
Q402	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		R136 R137	1-216-826-11 1-216-833-11	METAL CHIP METAL CHIP	2.7K 10K	5% 5%	1/10W 1/10W
Q430	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		R138	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q430 Q431	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		R144	1-216-820-11	METAL CHIP	820	5%	1/10W
Q452	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF				0////		- / -	
Q500	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		R145	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
Q501	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF		R153	1-216-833-11	METAL CHIP	10K	5%	1/10W
					R177	1-216-819-11	METAL CHIP	680	5%	1/10W
Q502	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF							(GTR55)
Q503	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF							

Ref. No.	Part No.	<u>Description</u>			Remark	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
R177	1-220-373-11	METAL CHIP	620	5% (GT	1/10W R33/GTR77)	R242	1-216-830-11	METAL CHIP	5.6K	5%	1/10W (GTR55)
R178	1-216-834-11	METAL CHIP	12K	5%	1/10W (GTR33)	R242	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (GTR77)
					(011100)	R243	1-216-821-11	METAL CHIP	1K	5%	1/10W
R178	1-216-835-11	METAL CHIP	15K	5% (GT	1/10W R55/GTR77)	R270	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R179	1-216-864-11	SHORT CHIP	0	(01	1100/01111/	11270	1 2 10 020 11	ME I/ LE OI III	7.710	070	(GTR33)
R182	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R270	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R183	1-216-829-11	METAL CHIP	4.7K	5%	1/10W					(GT	R55/GTR77)
R184	1-216-823-11	METAL CHIP	1.5K	5%	1/10W	R271	1-216-817-11	METAL CHIP	470	5% `	1/10W
						R272	1-216-994-11	METAL CHIP	13K	5%	1/10W
R185	1-216-823-11	METAL CHIP	1.5K	5%	1/10W						(GTR33)
R186	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	R272	1-218-725-11	METAL CHIP	24K	0.5%	1/10W ´
R187	1-216-833-11	METAL CHIP	10K	5%	1/10W					(GT	R55/GTR77)
R188	1-216-841-11	METAL CHIP	47K	5%	1/10W					,	,
R190	1-216-857-11	METAL CHIP	1M	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
R192	1-216-842-11	METAL CHIP	56K	5%	1/10W	R278	1-216-821-11	METAL CHIP	1K	5%	1/10W
R194	1-216-820-11	METAL CHIP	820	5%	1/10W	R279	1-216-821-11	METAL CHIP	1K	5%	1/10W
R195	1-216-833-11	METAL CHIP	10K	5%	1/10W	R280	1-216-838-11	METAL CHIP	27K	5%	1/10W
R200	1-216-801-11	METAL CHIP	22	5%	1/10W	11200	1 210 000 11	MEDIE OTH	2710	070	171011
R201	1-216-841-11	METAL CHIP	47K	5%	1/10W	R282	1-216-845-11	METAL CHIP	100K	5%	1/10W
11201	121004111	WIL IT IL OT III	7711	070	17 10 **	R283	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R202	1-216-809-11	METAL CHIP	100	5%	1/10W	R284	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R204	1-216-839-11	METAL CHIP	33K	5%	1/10W	R285	1-216-841-11	METAL CHIP	47K	5%	1/10W
R210	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R286	1-216-841-11	METAL CHIP	47K	5%	1/10W
R210	1-216-845-11	METAL CHIP	100K	5%	1/10W	N200	1-210-041-11	WIL TAL CITIF	4/11	J /0	1/1000
R211	1-216-833-11	METAL CHIP	100K	5%	1/10W	R288	1-216-841-11	METAL CHIP	47K	5%	1/10W
NZIZ	1-210-055-11	WIL TAL CITIF	TUIX	J /0	1/1000	R289	1-216-821-11	METAL CHIP	1K	5%	1/10W
D012	1-216-845-11	METAL CHIP	100K	5%	1/10W	R209 R291	1-218-867-11		6.8K	0.5%	
R213								METAL CHIP			1/10W
R214	1-216-819-11	METAL CHIP	680	5%	1/10W	R292	1-216-833-11	METAL CHIP	10K	5%	1/10W
R215	1-216-833-11	METAL CHIP	10K	5%	1/10W	R300	1-216-817-11	METAL CHIP	470	5%	1/10W
R216	1-216-837-11	METAL CHIP	22K	5%	1/10W	D204	4 040 047 44	METAL OLUB	470	E0/	4/40/4/
R218	1-216-833-11	METAL CHIP	10K	5%	1/10W	R301	1-216-817-11	METAL CHIP	470	5%	1/10W
D000	1 010 000 11	METAL OLUB	4.71/	5 0/	4/4014/	R302	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R220	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R303	1-216-819-11	METAL CHIP	680	5%	1/10W
					(GTR33)	R304	1-216-841-11	METAL CHIP	47K	5%	1/10W
R220	1-216-830-11	METAL CHIP	5.6K	5% (GT	1/10W R55/GTR77)	R307	1-216-833-11	METAL CHIP	10K	5%	1/10W
R221	1-216-817-11	METAL CHIP	470	5% `	1/10W	R322	1-216-837-11	METAL CHIP	22K	5%	1/10W
R222	1-216-994-11	METAL CHIP	13K	5%	1/10W	R323	1-216-837-11	METAL CHIP	22K	5%	1/10W
					(GTR33)	R324	1-216-837-11	METAL CHIP	22K	5%	1/10W
R222	1-218-725-11	METAL CHIP	24K	0.5%	1/10W	R325	1-216-837-11	METAL CHIP	22K	5%	1/10W
				(GT	R55/GTR77)	R326	1-216-837-11	METAL CHIP	22K	5%	1/10W
R223	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R327	1-216-837-11	METAL CHIP	22K	5%	1/10W
R224	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R328	1-216-837-11	METAL CHIP	22K	5%	1/10W
R225	1-216-828-11	METAL CHIP	3.9K	5%	1/10W	R329	1-216-833-11	METAL CHIP	10K	5%	1/10W
NZZJ	1-210-020-11	WIL TAL CITIF	3.31		EXCEPT E4)	R330	1-216-833-11	METAL CHIP	10K	5%	1/10W
R225	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	R361	1-216-833-11	METAL CHIP	10K	5%	1/10W
RZZS	1-210-007-11	WIETAL CHIP	0.01	0.5%	(E4)	K301	1-210-033-11	METAL CHIP	IUK	370	1/1000
R226	1-216-828-11	METAL CHIP	3.9K	5%	1/10W ` ´	R364	1-216-833-11	METAL CHIP	10K	5%	1/10W
				(EXCEPT E4)	R365	1-216-833-11	METAL CHIP	10K	5%	1/10W
				,		R380	1-216-809-11	METAL CHIP	100	5%	1/10W
R226	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	R381	1-216-835-11	METAL CHIP	15K	5%	1/10W
					(E4)	R390	1-216-809-11	METAL CHIP	100	5%	1/10W
R227	1-216-841-11	METAL CHIP	47K	5%	1/10W ´						
R228	1-216-821-11	METAL CHIP	1K	5%	1/10W	R391	1-216-833-11	METAL CHIP	10K	5%	1/10W
R229	1-216-821-11	METAL CHIP	1K	5%	1/10W	R392	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R235	1-216-827-11	METAL CHIP	3.3K	5%	1/10W				0.0.1	0,10	(GTR55)
11200	1 2 10 021 11	ME I/ LE OF III	0.011	070	17 1011	R392	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R236	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	11002	1 210 001 11	MEDIE OTH	0.011	0.070	(GTR77)
R237	1-216-815-11	METAL CHIP	330	5%	1/10W	R392	1-216-864-11	SHORT CHIP	0 (GTR33)		(011(11)
1/201	1-210-010-11	WIL IAL OITE	000		R55/GTR77)	R393	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R238	1-216-821-11	METAL CHIP	1K	5%	1/10W	17030	1-210-007-11	WIL IAL UNIF	0.0IN	U.J /0	(E4)
R239	1-216-845-11	METAL CHIP	100K	5% 5%	1/10W						(⊏4)
R239 R240	1-216-845-11	METAL CHIP	100K 100K	5% 5%	1/10W	R393	1-216-841-11	METAL CHIP	47K	5%	1/10W
11240	1-210-040-11	WIL IAL OFF	1001	J /0	1/ 10 0 0	17333	1-210-041-11	WIL IAL UNIF	7117		EXCEPT E4)
R241	1-216-821-11	METAL CHIP	1K	5%	1/10W	R394	1-216-835-11	METAL CHIP	15K	5%	1/10W
R241	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R395	1-216-835-11	METAL CHIP	15K 15K	5%	1/10W
11444	1-210-021-11	ME IAL OITH	0.01	J /0	(GTR33)	R397	1-216-835-11	METAL CHIP	15K	5%	1/10W
					(31133)	11001	1-210-033-11	WIL IAL OITE	1011	J /0	1/1044

Dof No	Dort No.	Description			Domork	Dof No	Dort No.	Description			Domork
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R398	1-216-809-11	METAL CHIP	100	5%	1/10W	R619	1-218-839-11	METAL CHIP	470	0.5%	1/10W
						R620	1-218-869-11	METAL CHIP	8.2K	0.5%	1/10W
R399	1-216-809-11	METAL CHIP	100	5%	1/10W	R621	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R404	1-216-809-11	METAL CHIP	100	5%	1/10W	D000	4 040 005 44	METAL OLUB	000	0.50/	4/40)4/
R409	1-216-833-11	METAL CHIP	10K	5%	1/10W	R622	1-218-835-11	METAL CHIP	330	0.5%	1/10W
R410	1-219-570-11	METAL CHIP	10M	5%	1/10W	R623	1-216-821-11	METAL CHIP	1K	5%	1/10W
R411	1-216-849-11	METAL CHIP	220K	5%	1/10W	R627 R633	1-246-024-21 1-216-837-11	METAL CHIP METAL CHIP	150 22K	5% 5%	1/2W 1/10W
R422	1-216-821-11	METAL CHIP	1K	5%	1/10W	R634	1-216-837-11	METAL CHIP	22K 22K	5% 5%	1/10W
R423	1-216-821-11	METAL CHIP	1K	5%	1/10W	1034	1-210-037-11	WIL TAL OTTE	ZZIN	J /0	1/1000
R424	1-216-821-11	METAL CHIP	1K	5%	1/10W	R635	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R425	1-216-821-11	METAL CHIP	1K	5%	1/10W	11000	1 210 027 11	WE IT IE OT III	0.010		R55/GTR77)
R426	1-216-821-11	METAL CHIP	1K	5%	1/10W	R635	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
											(GTR33)
R427	1-216-821-11	METAL CHIP	1K	5%	1/10W	R636	1-216-864-11	SHORT CHIP	0		
R428	1-216-821-11	METAL CHIP	1K	5%	1/10W	R637	1-215-891-11	METAL OXIDE	680	5%	2W
R431	1-216-809-11	METAL CHIP	100	5%	1/10W					(GT	R55/GTR77)
R432	1-216-809-11	METAL CHIP	100	5%	1/10W	R637	1-216-455-11	METAL OXIDE	560	5%	2W
R434	1-216-809-11	METAL CHIP	100	5%	1/10W						(GTR33)
R439	1-216-809-11	METAL CHIP	100	5%	1/10W	R638	1-215-891-11	METAL OXIDE	680	5%	2W
R440	1-216-809-11	METAL CHIP	100	5%	1/10W						R55/GTR77)
R441	1-216-809-11	METAL CHIP	100	5%	1/10W	R638	1-216-455-11	METAL OXIDE	560	5%	2W
R462	1-216-809-11	METAL CHIP	100	5%	1/10W	5040	4 0 4 0 0 0 4 0 4	METAL OLUB	450	5 0/	(GTR33)
R463	1-216-809-11	METAL CHIP	100	5%	1/10W	R640	1-246-024-21	METAL CHIP	150	5%	1/2W
R466	1-216-809-11	METAL CHIP	100	5%	1/10W	R641 R642	1-216-817-11 1-216-841-11	METAL CHIP METAL CHIP	470 47K	5% 5%	1/10W 1/10W
R467	1-216-809-11	METAL CHIP	100	5% 5%	1/10W	R042	1-210-041-11	WE TAL CHIP	4/K	370	1/1000
R468	1-216-813-11	METAL CHIP	220	5% 5%	1/10W	R643	1-216-817-11	METAL CHIP	470	5%	1/10W
R474	1-216-809-11	METAL CHIP	100	5%	1/10W	R644	1-216-841-11	METAL CHIP	47K	5%	1/10W
R481	1-216-821-11	METAL CHIP	1K	5%	1/10W	R645	1-216-818-11	METAL CHIP	560	5%	1/10W
11401	1 210 021 11	WEI/LEOIIII	111	070	171000	R646	1-216-818-11	METAL CHIP	560	5%	1/10W
R483	1-216-837-11	METAL CHIP	22K	5%	1/10W	R647	1-216-841-11	METAL CHIP	47K	5%	1/10W
R484	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R491	1-216-809-11	METAL CHIP	100	5%	1/10W	R648	1-216-841-11	METAL CHIP	47K	5%	1/10W
R492	1-216-841-11	METAL CHIP	47K	5%	1/10W	R649	1-216-817-11	METAL CHIP	470	5%	1/10W
				(GT	R55/GTR77)	R650	1-216-841-11	METAL CHIP	47K	5%	1/10W
R493	1-216-833-11	METAL CHIP	10K	5%	1/10W	R651	1-216-817-11	METAL CHIP	470	5%	1/10W
				(EXCEPT E4)	R652	1-216-841-11	METAL CHIP	47K	5%	1/10W
R493	1-216-841-11	METAL CHIP	47K	5%	1/10W	R653	1-216-818-11	METAL CHIP	560	5%	1/10W
					(E4)	R654	1-216-818-11	METAL CHIP	560	5%	1/10W
R494	1-216-817-11	METAL CHIP	470	5%	1/10W	R655	1-216-841-11	METAL CHIP	47K	5%	1/10W
R495	1-216-817-11	METAL CHIP	470	5%	1/10W	R656	1-216-841-11	METAL CHIP	47K	5%	1/10W
R497	1-216-817-11	METAL CHIP	470	5%	1/10W	R657	1-216-790-11	METAL CHIP	2.7	5%	1/10W
R500	1-216-821-11	METAL CHIP	1K	5%	1/10W	R658	1-216-790-11	METAL CHIP	2.7	5%	1/10W
R502	1-216-821-11	METAL CHIP	1K	5%	1/10W	R659	1-216-801-11	METAL CHIP	22	5%	1/10W
R504	1-216-821-11	METAL CHIP	1K	5%	1/10W	R660	1-216-790-11	METAL CHIP	2.7	5%	1/10W
R513	1-216-821-11	METAL CHIP	1K	5%	1/10W	R662	1-216-839-11	METAL CHIP	33K	5%	1/10W
R520	1-216-833-11	METAL CHIP	10K	5%	1/10W	R663	1-216-837-11	METAL CHIP	22K	5%	1/10W
				-,-	(E4)						
R525	1-216-825-11	METAL CHIP	2.2K	5%	1/10W ` ´	R664	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
					(E4)	R666	1-216-815-11	METAL CHIP	330	5%	1/10W
					` ′	R668	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R526	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	R669	1-216-853-11	METAL CHIP	470K	5%	1/10W
					(E4)	R674	1-216-833-11	METAL CHIP	10K	5%	1/10W
R530	1-216-821-11	METAL CHIP	1K	5%	1/10W						
					R55/GTR77)	R683	1-216-821-11	METAL CHIP	1K	5%	1/10W
R531	1-216-821-11	METAL CHIP	1K	5%	1/10W						(E4)
					R55/GTR77)	R690	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R543	1-216-833-11	METAL CHIP	10K	5%	1/10W	R694	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R601	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	R695	1-216-837-11	METAL CHIP	22K	5%	1/10W
DCCC	4 040 055 44	METAL OLUB	0.014	0.50/	4/40\4/	R697	1-216-821-11	METAL CHIP	1K	5%	1/10W
R602	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	DCCC	1 040 000 44	METAL OUID	1 71/	F0/	1/10\\
R603	1-218-835-11	METAL CHIP	330	0.5%	1/10W	R698	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R613	1-216-825-11	METAL CHIP	2.2K	5% 5%	1/10W	R699	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R614 R615	1-216-817-11 1-216-833-11	METAL CHIP	470 10K	5% 5%	1/10W 1/10W			< RELAY >			
U019	1-210-033-11	METAL CHIP	IUN	J 7/0	1/1000			`NLLAT >			
R616	1-216-818-11	METAL CHIP	560	5%	1/10W	RY500	1-755-653-11	RELAY			
R617	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	111000	1 700-000-11	111111			
1.017	. 2.0 020-11	/ \L OI III	211	370	17 1011						

MAIN MIC POWER

Ref. No.	Part No.	<u>Description</u>			Remark	Ref. No.	Part No.	<u>Description</u>			Remark
		< VIBRATOR >				R706	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
X401	1-760-252-12	RELAY (32.768kH	J-/			R711 R712	1-216-833-11 1-216-836-11	METAL CHIP METAL CHIP	10K 18K	5% 5%	1/10W 1/10W
X401 X402	1-781-472-21	VIBRATOR, CER	,	<u>z</u>)		R714	1-216-849-11	METAL CHIP	220K	5%	1/10W
		******			*****	R715	1-216-809-11	METAL CHIP	100	5%	1/10W
		MIC BOARD				R716	1-216-845-11	METAL CHIP	100K	5%	1/10W
		*****				R720 R721	1-216-845-11 1-216-836-11	METAL CHIP METAL CHIP	100K 18K	5% 5%	1/10W 1/10W
		< CAPACITOR >				R721	1-216-833-11	METAL CHIP	10K	5% 5%	1/10W
						R723	1-216-836-11	METAL CHIP	18K	5%	1/10W
C700	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D704	4 040 044 44	METAL OLUB	4717	F0/	4/4014/
C701 C702	1-164-156-11 1-162-964-11	CERAMIC CHIP	0.1uF 0.001uF	10%	25V 50V	R724 R725	1-216-841-11 1-216-833-11	METAL CHIP METAL CHIP	47K 10K	5% 5%	1/10W 1/10W
C707	1-124-257-00	ELECT	2.2uF	20%	50V	11720	1 210 000 11	WE IN LE OT III	1011	070	1,1011
C708	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V			< VARIABLE RES	SISTOR >		
C709	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	RV700	1-227-452-11	RES, VAR, CARE			
C710	1-126-157-11	ELECT	10uF	20%	16V	******	******	******	******	*****	*****
C711 C712	1-124-584-00 1-162-923-11	ELECT CERAMIC CHIP	100uF 47PF	20% 5%	6.3V 50V			POWER BOARD			
C712	1-102-923-11	ELECT	2.2uF	20%	50V			********	:		
C716	1-124-257-00	ELECT	2.2uF	20%	50V		7-685-647-79	SCREW +BVTP 3	X10 TVPE2	IT_3	
C719	1-162-961-11	CERAMIC CHIP	330PF	10%	50V		1-003-041-13	(GTR55/GTR77)	// 10 111 LZ	11-0	
C720	1-124-257-00	ELECT	2.2uF	20%	50V						
C721 C722	1-164-156-11 1-164-218-11	CERAMIC CHIP	0.1uF 180PF	5%	25V 50V			< CAPACITOR >			
						C801	1-130-777-00	MYLAR	0.1uF	5%	100V
C724	1-124-463-00	ELECT	0.1uF	20%	50V	C802	1-130-777-00	MYLAR	0.1uF	5%	100V
C777 C779	1-162-964-11 1-164-156-11	CERAMIC CHIP	0.001uF 0.1uF	10%	50V 25V	C803	1-137-840-11	ELECT (BLOCK)	2200uF	20%	63V (GTR33)
C780	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C803	1-137-842-11	ELECT (BLOCK)	2200uF	20%	80V
C781	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	0004	4 407 040 44	EL EQT (DL QQIA)	0000 5	•	R55/GTR77)
C782	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C804	1-137-840-11	ELECT (BLOCK)	2200uF	20%	63V (GTR33)
		< DIODE >				C804	1-137-842-11	ELECT (BLOCK)	2200uF	20%	80V
D700	0 504 570 04	DIODE MONOS				0005	4 407 044 44	FLEOT (DLOOK)	2200 5	,	R55/GTR77)
D700 D701	6-501-579-01 6-501-579-01	DIODE MC2837 DIODE MC2837				C805	1-127-811-11	ELECT (BLOCK)	3300uF	20%	50V (GTR77)
Divi	0 001 013 01	DIODE MOZOOF				C805	1-137-839-11	ELECT (BLOCK)	2200uF	20%	50V
		< IC >				0000	4 407 044 44	EL EQT (DL QQIA)	0000 5	000/	(GTR55)
IC700	8-759-278-58	IC NJM4558V-T	E2			C806	1-127-811-11	ELECT (BLOCK)	3300uF	20%	50V (GTR77)
						C806	1-137-839-11	ELECT (BLOCK)	2200uF	20%	50V
		< JACK >									(GTR55)
J700 J702	1-822-757-11 1-794-702-11	JACK (LARGE T) JACK, HEADPHO	, , ,	=6/		C807	1-130-777-00	MYLAR	0.1uF	5% (CT	100V R55/GTR77)
3702	1-754-702-11	JAON, FILADETIC	JNL (FIIONI	_3)		C808	1-130-777-00	MYLAR	0.1uF	5%	100V
		< JUMPER RESIS	STOR >			0000	4 400 004 44	FLEOT	40 5		R55/GTR77)
JR701	1-216-864-11	SHORT CHIP	0			C809 C810	1-126-964-11 1-126-964-11	ELECT ELECT	10uF 10uF	20% 20%	50V 50V
JR702	1-216-864-11	SHORT CHIP	0			C811	1-126-964-11	ELECT	10uF	20%	50V
JR703	1-216-296-11	SHORT CHIP	0								
JR704 JR705	1-216-296-11	SHORT CHIP	0			C812 C813	1-162-964-11 1-162-964-11	CERAMIC CHIP	0.001uF 0.001uF	10% 10%	50V 50V
JK/03	1-216-296-11	SHORT CHIP	U			C814	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V 50V
JR706	1-216-296-11	SHORT CHIP	0			C815	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
JR707	1-216-295-91	SHORT CHIP	0			C816	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
JR708 JR709	1-216-864-11 1-216-864-11	SHORT CHIP SHORT CHIP	0			C817	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
011100	1 2 10-004-11	SHORT OTH	v			C818	1-102-927-11	ELECT	47uF	20%	50V
		< RESISTOR >				C819	1-126-967-11	ELECT	47uF	20%	50V
D700	4 040 004 44	METAL OLUB	41/	F0/	4/40\4/	C820	1-126-967-11	ELECT	47uF	20%	50V
R700 R701	1-216-821-11 1-216-845-11	METAL CHIP METAL CHIP	1K 100K	5% 5%	1/10W 1/10W	C826	1-128-552-51	ELECT	47uF	20%	63V (GTR33)
R702	1-216-833-11	METAL CHIP	10K	5%	1/10W						(511.00)
R704	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	C826	1-128-562-11	ELECT	47uF	20%	100V
R705	1-216-829-11	METAL CHIP	4.7K	5%	1/10W					(GT	R55/GTR77)

POWER

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
			47F	200/	63V				1 51/	E0/	·
C827	1-128-552-51	ELECT	47uF	20%		R821 R822	1-216-823-11 1-216-821-11	METAL CHIP	1.5K 1K	5% 5%	1/10W 1/10W
C827	1-128-562-11	ELECT	47uF	20%	(GTR33) 100V	R823	1-216-821-11	METAL CHIP METAL CHIP	1.5K	5% 5%	1/10W
G021	1-120-302-11	ELECT	47UF		R55/GTR77)	Rozo	1-210-023-11	WE IAL OHP	1.5K	3%	1/1000
C829	1-104-658-91	ELECT	100uF	20%	10V ´	R824	1-216-841-11	METAL CHIP	47K	5%	1/10W
C830	1-126-961-11	ELECT	2.2uF	20%	50V	R825	1-216-841-11	METAL CHIP	47K	5%	1/10W
						R826	1-216-841-11	METAL CHIP	47K	5%	1/10W
C837	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	R827	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
C838	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V					(G	TR33/GTR55)
C839	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	R827	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
C840	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V						(GTR77)
C851	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V						
						R828	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
C852	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V					,	TR33/GTR55)
		CONNECTOR				R828	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
		< CONNECTOR :	>			D000	4 040 047 44	METAL OLUB	470	E0/	(GTR77)
* CN801	4 572 007 44	DINI CONNECTO	D 42D			R829	1-216-817-11	METAL CHIP	470	5%	1/10W
* CN801	1-573-087-11	PIN, CONNECTO	IK ISP			R829	1-216-818-11	METAL CHID	560	5%	TR55/GTR77) 1/10W
		< DIODE >				1029	1-210-010-11	METAL CHIP	300	J /0	(GTR33)
		\ DIODL >				R830	1-216-841-11	METAL CHIP	47K	5%	1/10W
D800	6-502-994-01	DI D10XB60 F				11000	1 210 041 11	ME I/ LE OI III	7710	070	171000
D801	6-502-994-01	DI D10XB60 F (G	TR55/GTR7	7)		R831	1-220-893-11	METAL	0.22	10%	5W
D802	6-500-334-01	DIODE MC2836		,		R832	1-220-893-11	METAL	0.22	10%	5W
D803	6-501-817-01	DIODE MA2J11				R833	1-220-893-11	METAL	0.22	10%	5W
D804	6-501-778-01	DIODE MAZ816	0GMLS0			R834	1-216-821-11	METAL CHIP	1K	5%	1/10W
				(GT	R55/GTR77)	R835	1-216-821-11	METAL CHIP	1K	5%	1/10W
											(GTR33)
D805	6-501-778-01	DIODE MAZ816	0GMLS0								
				,	R55/GTR77)	R835	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
D806	6-501-412-01	DIODE SF5S6 ((77)							TR55/GTR77)
D807	6-501-817-01	DIODE MA2J11				R836	1-216-835-11	METAL CHIP	15K	5%	1/10W
D810	6-501-412-01	DIODE SF5S6 ((77)		D000	4 040 000 44	METAL OLUB	4017	,	TR55/GTR77)
D811	6-501-817-01	DIODE MA2J11	10GLS0			R836	1-216-836-11	METAL CHIP	18K	5%	1/10W
		< IC >				R838	1-216-843-11	METAL CHIP	68K	5%	(GTR33) 1/10W
		< 10 >				1030	1-210-043-11	WE TAL CHIP	OOK	370	(GTR33)
⚠ IC800	6-600-674-01	IC STK416-130-	F (GTR77)			R838	1-216-844-11	METAL CHIP	82K	5%	1/10W
△ IC800	6-600-675-01	IC STK416-120-	,			1,000	1 210 011 11	ME I/ LE OI III	OLIK		TR55/GTR77)
△ IC800	6-712-281-01	IC STK433-320-								(-	, , ,
			,			R839	1-216-843-11	METAL CHIP	68K	5%	1/10W
		< JACK >									(GTR33)
						R839	1-216-844-11	METAL CHIP	82K	5%	1/10W
JK800	1-820-067-21	TERMINAL BOAF	,	ER)						,	TR55/GTR77)
		(FRONT SPEAKE				R842	1-215-871-11	METAL OXIDE	2.2K	5%	1W
JK801	1-820-067-21	TERMINAL BOAF				5040			0.017	,	TR55/GTR77)
		(SATELLITE SPE	AKER) (GT	۲//)		R843	1-215-871-11	METAL OXIDE	2.2K	5%	1W
		. ILIMDED DECK	OTOD S			D040	4 040 007 44	METAL CLUD	2.21/		TR55/GTR77)
		< JUMPER RESIS	STUR >			R848	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
JR810	1-216-296-11	SHORT CHIP	0			R849	1-216-838-11	METAL CHIP	27K	5%	1/10W
JR811	1-216-296-11	SHORT CHIP	0			R850	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
011011	1 210 200 11	OHORRI OHII	· ·			R851	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< TRANSISTOR :	>			R852	1-216-817-11	METAL CHIP	470	5%	1/10W
						1.002				0,0	(GTR33)
Q800	6-551-268-01	TRANSISTOR	2SC5625			R852	1-216-864-11	SHORT CHIP	0 (GTR55/	GTR77)	(
Q801	6-551-268-01	TRANSISTOR	2SC5625						,	,	
Q802	6-551-268-01	TRANSISTOR	2SC5625			R853	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q803	8-729-620-07	TRANSISTOR	2SC3052E								(GTR33)
Q806	8-729-620-07	TRANSISTOR	2SC3052E	F-T1-LEF		R854	1-216-841-11	METAL CHIP	47K	5%	1/10W
						R855	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q807	8-729-620-07	TRANSISTOR	2SC3052E			R856	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q808	8-729-620-07	TRANSISTOR	2SC3052E			R857	1-216-837-11	METAL CHIP	22K	5%	1/10W
Q809	6-551-696-01	TRANSISTOR	ISA1235A0			Doco	4 040 005 44	METAL CLUD	451/	F0/	4/40\4/
Q811	8-729-620-07	TRANSISTOR	2SC3052E	r-II-LEF		R860	1-216-835-11	METAL CHIP	15K	5%	1/10W
		< RESISTOR >				R860	1-216-836-11	METAL CHIP	18K	(G 5%	TR55/GTR77) 1/10W
		> KESISTUK >				1,000	1-210-030-11	IVIE IAL UNIP	101	J%	(GTR33)
R806	1-216-845-11	METAL CHIP	100K	5%	1/10W		1-217-637-55	FUSIBLE	1	5%	(GTR33) 1/4W
11000	1 210-070-11	WE IAL OITH	10011		R55/GTR77)	⚠ R862	1-250-336-11	FUSIBLE	100	5%	1/4VV 1/2W
R807	1-216-845-11	METAL CHIP	100K	5%	1/10W	R863	1-216-821-11	METAL CHIP	1K	5%	1/10W
		-			R55/GTR77)			-		-	
				•	•						

POWER TC

Reference Refe	Def Ne	Dark Na	Description			Damada	Def Ne	Dark Na	Danadation			Damada
R866 1-216-94-11	Ref. No.	Part No.	<u>Description</u>			Remark	Ref. No.	Part No.	<u>Description</u>			Remark
CST 1-76-840-11 METAL CHIP 39K 59K 110W CST 1-162-99H 1-76-840-11 METAL CHIP 30K 59K 110W CST 1-162-99H 1-76-840-11 METAL CHIP 37K 59K 110W CST 1-162-99H 1-76-840-11 METAL CHIP 47K 59K 110W CST 1-162-99H 1-76-840-11 METAL CHIP 47K 59K 110W CST 1-162-99H 1-76-840-11 METAL CHIP 47K 59K 110W CST 1-162-99H 1-76-840-11 METAL CHIP 22K 59K 110W CST 1-162-99H 1-76-840-11 METAL CHIP 22K 59K 110W CST 1-162-99H 1-76-840-11 METAL CHIP 12K 59K 110W CST 1-162-99H 1-76-840-11 METAL CHIP 12K 59K 110W CST 1-162-99H 1-76-840-11 METAL CHIP 12K 59K 110W CST 1-162-99H 1-76-840-11 METAL CHIP 25K 59K 110W CST 1-162-99H 1-76-840-11 METAL CHIP 10K 59K 110W CST 1-162-99H 10K 110W 10K 12W 1-76-940 1-76-9												
R866 1-216-80-11 METAL CHIP 98K 5N 110W (GTR33)	R866	1-202-926-11	METAL CHIP	36K								
R886 1-216-839-11 METAL CHIP 33K 5% 1/10W CS34 1-162-86-11 CERAMIC CHIP 0.0022_6 10% 50V CS34 1-162-86-11 CERAMIC CHIP 0.0022_6 10% 50V CS35 1-162-86-11 CERAMIC CHIP 0.0022_6 10% 50V CERAMIC CHIP 0.0022_6 10% CERAMIC CHIP	2000			2017								
R888 1.216.843-11 METAL CHIP 33K 5% 11/10W C534 1-162.966-11 CERAMIC CHIP 0.0022µF 10% 50V C535 1-162.966-11 CERAMIC CHIP 0.0022µF 10% 50V C536 1-162.966-11 CERAMIC CHIP 0.0022µF 10% 50V C546 1-100.987-91 CERAMIC CHIP 0.0022µF 10% 50V C546 1-160.987-91 CERAMIC CHIP 0.0022µF 10% 50V C546 1-160.986-11 CERAMIC CHIP 0.0022µF 10% 50V C546 1-160.986-11 CERAMIC CHIP 0.0022µF 10% 50V C546 1-160.986-11 CERAMIC CHIP 0.0022µF 10% 50V C546 1-	R866	1-216-840-11	METAL CHIP	39K	5%							
R881 1-216-843-11 METAL CHIP 47K 5% 1/10W C553 1-162-866-11 CERAMIC CHIP 0.0022uF 10% 50V C555 1-1	Doco	4 040 000 44	METAL OLUD	2214	E0/	,	C533	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
R882 1-216-843-11 METAL CHIP 68K 5% 1/10W C378-361-37 1-62-96-11 CERAMIC CHIP 00022uF 10% 50V 50V 678-361 1-216-844-11 METAL CHIP 87K 5% 1/10W C378-3618T77 1-62-96-11 CERAMIC CHIP 00022uF 10% 50V 50V 1/10W C378-3618T77 1-62-96-11 CERAMIC CHIP 00022uF 10% 50V 50V 1/10W 1							0534	4 400 000 44	CEDAMIC CLUD	0.0000	400/	F0\/
R82	R881	1-216-841-11	METAL CHIP	4/K	5%	1/1000						
R882 1-216-84-11 METAL CHIP 82K 5% 11/0W (GTRSS)GTR77/ R883 1-216-84-11 METAL CHIP 1K 5% 11/0W CS45 1-216-84-11 METAL CHIP 1K 5% 11/0W CS45 1-216-84-11 METAL CHIP 5K 5% 11/0W CS45 1-216-84-11 METAL CHIP 5K 5% 11/0W CS45 1-216-28-11 MILAR 0047uF 5% 5W CS42 1-127-96-11 LECT 20uF 25% 5W CS45 1-127-96-11 LECT 20uF 25% 5W CS45 1-127-28-11 LECT 100uF 20% 11/0W CS45 1-100-38-73-1 CERAMIC CHIP 100uF 20% 11/0W CS45 1-100-38-73-1 CERAMIC CHIP 100uF 20% 11/0W CS45 1-100-38-73-1 CERAMIC CHIP 0.00uF 10% 5W CS45 1-100-38-73-1 CERAMIC CHIP 0.00uF 20% 11/0W CS45 1-100-38-73-1 CERAMIC C	D002	1 016 040 11	METAL CLUD	COI	E0/	1/10\\\						
R882 1-216-84-11 METAL CHIP 26X 5% 1/10W C3T8-0610TR-77 C	K002	1-210-843-11	METAL CHIP	DON	5%							
Comparison Com	D882	1 216 9// 11	METAL CHID	82K	E0/.	,						
R883	1002	1-210-044-11	WIL TAL OTTE	0211			0330	1-102-370-11	CLIVAIVIIC CITII	0.0 Tul	10 /0	23 V
R886	R883	1-216-821-11	METAL CHIP	1K			C539	1-115-156-11	CERAMIC CHIP	1uF		10\/
R886 1-216-842-11 METAL CHIP 56K 5% 1/10W C542 1-126-786-11 ELECT 2016 50V 50V C543 1-126-786-11 ELECT 2016 50V 50V C548 1-162-95-11 C548 C543 C543 C543 C543 C543 C543 C543 C544 C543 C543 C543 C543 C544 C543 C5											5%	
R887												
R889												
C546 1-10-957-91 CERAMIC CHIP 0.1 10 50 50	R887	1-216-864-11	SHORT CHIP	0			C545	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V
R889 1-216-383-11 METAL CHIP 33K 5% 1/10W C549 1-164-58-11 CERAMIC CHIP 0.001uF 10% 59V 29V R892 1-216-345-11 METAL CHIP 100K 5% 1/10W CN59 1-164-58-11 CERAMIC CHIP 0.01uF 29V CN502 1-764-731-11 CNNECTOR SMALL TYPE) & CONNECTOR SMALL TYPE) & CNS02 1-762-312-21 METAL CHIP 10 5% 1/2W CN502 1-764-731-11 CNNECTOR SMALL TYPE) & CNNECTOR SMALL TYPE) & CNS02 1-764-731-11 CNS02 S-759-100-96 10 uPC455862 CM502 CM50	R889	1-216-834-11	METAL CHIP	12K	5%	1/10W						
CSTA23 1-216-845-11 METAL CHIP 100K 5% 170W					(GT	R55/GTR77)	C546	1-100-597-91	CERAMIC CHIP	0.1uF	10%	
R891 1-216-845-11 METAL CHIP 100K 5% 1/10W R995 1-226-845-11 METAL CHIP 10 0 5% 1/2W R996 1-250-312-21 METAL CHIP 10 5% 1/2W R996 1-250-312-21 METAL CHIP 10 5% 1/2W R996 1-250-312-21 METAL CHIP 10 5% 1/2W R997 1-250-312-21 METAL CHIP 10 5% 1/2W R998 1-250-312-21 METAL CHIP 10 5% 1/2W R998 1-250-312-21 METAL CHIP 10 5% 1/2W R999 1-250-312-21 METAL CHIP 10 10 5% 1/2W R999 1-250-312-21 METAL CHIP 10 10 5% 1/2W R999 1-250-312-21 METAL CHIP 10 10 10 10 10 10 10 10 10 10 10 10 10	R889	1-216-839-11	METAL CHIP	33K	5%	1/10W	C548	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
R892						(GTR33)	C549	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R905				100K	5%							
R906	R892	1-216-845-11	METAL CHIP	100K	5%	1/10W			< CONNECTOR :	>		
R906												
R910											YPE) 8P	
RY800							CN502	1-784-731-11	CONNECTOR, F	FC 9P		
RY800	R910	1-250-312-21	METAL CHIP	10	5%	1/2W			. 10			
RY800 1-755-653-11 RELAY			, DELAY						< IC >			
THROID			< RELAY >				ICE01	0.750.400.00	ICDC4EE9C2			
TH802	DV900	1 755 650 11	DELAY									
TH802 1-804-045-11 THERMISTOR TC BOARD (E4) ***********************************	K1000	1-700-000-11	KELAT				10502	0-759-100-90	IC UPC4556G2			
TH802 1-804-045-11 THERMISTOR TC BOARD (E4) ***********************************			< THEDMISTOR	,					< IIIMPER RESI	STOR >		
TC BOARD (E4)			\ TILKWISTOK						VOOMI LIVILON	OTORY		
TC BOARD (E4)	TH802	1-804-045-11	THERMISTOR				JR501	1-216-864-11	SHORT CHIP	0		
Second S				******	*****	******						
TC BOARD (E4)												
**************************************			TC BOARD (E4)									
C501									SHORT CHIP			
C501												
C501			< CAPACITOR >				JR506	1-216-296-11	SHORT CHIP	0		
C502							JR507	1-216-296-11	SHORT CHIP	0		
C503	C501		ELECT	100uF	20%	10V	JR508	1-216-296-11	SHORT CHIP	0		
C504		1-104-658-91			20%	10V	JR509					
C505							JR510	1-216-295-91	SHORT CHIP	0		
C506							.=					
C506	C505	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C509	0500	4 400 070 44	OEDAMIO OLUB	0.04 5	400/	05) /						
C510												
C511												
C512 1-162-960-11 CERAMIC CHIP 220PF 10% 50V JR516 1-216-296-11 SHORT CHIP 0 C513 1-126-160-11 ELECT 1uF 20% 50V JR518 1-216-296-11 SHORT CHIP 0 C514 1-126-160-11 ELECT 1uF 20% 50V C515 1-126-786-11 ELECT 47uF 20% 35V C516 1-126-947-11 ELECT 47uF 20% 35V C517 1-162-964-11 CERAMIC CHIP 0.001uF 10% 50V L501 1-456-094-11 TRANSFORMER, BIAS OSCILLATION C519 1-162-962-11 CERAMIC CHIP 470PF 10% 50V C520 1-162-962-11 CERAMIC CHIP 1uF 10% 6.3V C521 1-125-837-91 CERAMIC CHIP 1uF 10% 6.3V C523 1-125-837-91 CERAMIC CHIP 1uF 10% 6.3V C526 1-162-923-11 CERAMIC CHIP 1uF 10% 6.3V C526 1-162-923-11 CERAMIC CHIP 47PF 5% 50V R501 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C526 1-162-962-11 CERAMIC CHIP 47PF 10% 50V R503 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 47PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 47PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 47PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 47PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 47PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 47PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 47PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 47PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 47PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 47PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 47PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 47PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 47PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 47PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 47PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5%							JK515	1-210-290-11	SHUKI CHIP	U		
C513							IR516	1_216_206_11	SHORT CHIP	0		
C513	0312	1-102-300-11	OLIVAIVIIO OLIIP	22VI'I	10 /0	JU V						
C514	C513	1-126-160-11	FLECT	1uF	20%	50V						
C515							011010	1 210 200 11	OHOITH OHII	Ü		
C516									< COIL >			
C517 1-162-964-11 CERAMIC CHIP 0.001uF 10% 50V L501 1-456-094-11 TRANSFORMER, BIAS OSCILLATION C519 1-162-962-11 CERAMIC CHIP 470PF 10% 50V C520 1-162-962-11 CERAMIC CHIP 470PF 10% 50V C521 1-125-837-91 CERAMIC CHIP 1uF 10% 6.3V Q501 8-729-119-78 TRANSISTOR 2SC2785-HFE C522 1-125-837-91 CERAMIC CHIP 1uF 10% 6.3V Q502 8-729-119-78 TRANSISTOR 2SC2785-HFE C523 1-125-837-91 CERAMIC CHIP 1uF 10% 6.3V C525 1-162-923-11 CERAMIC CHIP 1uF 10% 6.3V C525 1-162-923-11 CERAMIC CHIP 47PF 5% 50V R501 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C526 1-162-923-11 CERAMIC CHIP 47PF 5% 50V R502 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C527 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R503 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-216-825-11 CERAMIC CHIP 470PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W												
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C520												
C521 1-125-837-91 CERAMIC CHIP 1uF 10% 6.3V Q501 8-729-119-78 TRANSISTOR 2SC2785-HFE C522 1-125-837-91 CERAMIC CHIP 1uF 10% 6.3V Q502 8-729-119-78 TRANSISTOR 2SC2785-HFE C523 1-125-837-91 CERAMIC CHIP 1uF 10% 6.3V C524 1-125-837-91 CERAMIC CHIP 1uF 10% 6.3V C525 1-162-923-11 CERAMIC CHIP 47PF 5% 50V R501 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C526 1-162-923-11 CERAMIC CHIP 47PF 5% 50V R502 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C527 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R503 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W	C519	1-162-962-11	CERAMIC CHIP	470PF	10%	50V			< TRANSISTOR :	>		
C522 1-125-837-91 CERAMIC CHIP 1uF 10% 6.3V			CERAMIC CHIP	470PF		50V						
C523 1-125-837-91 CERAMIC CHIP 1uF 10% 6.3V		1-125-837-91			10%	6.3V						
C524 1-125-837-91 CERAMIC CHIP 1uF 10% 6.3V C525 1-162-923-11 CERAMIC CHIP 47PF 5% 50V R501 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C526 1-162-923-11 CERAMIC CHIP 47PF 5% 50V R502 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C527 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R503 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W			CERAMIC CHIP	1uF	10%		Q502	8-729-119-78	TRANSISTOR	2SC2785-H	HFE	
C524 1-125-837-91 CERAMIC CHIP 1uF 10% 6.3V C525 1-162-923-11 CERAMIC CHIP 47PF 5% 50V R501 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C526 1-162-923-11 CERAMIC CHIP 47PF 5% 50V R502 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C527 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R503 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W	C523	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V						
C525 1-162-923-11 CERAMIC CHIP 47PF 5% 50V R501 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C526 1-162-923-11 CERAMIC CHIP 47PF 5% 50V R502 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C527 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R503 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W									< RESISTOR >			
C526 1-162-923-11 CERAMIC CHIP 47PF 5% 50V R502 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C527 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R503 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W								4 040 00= **	METAL OLUM	0.011	FC'	4146111
C527 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R503 1-216-825-11 METAL CHIP 2.2K 5% 1/10W C528 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W												
C528 1-162-962-11 CERAMIC CHIP 470PF 10% 50V R504 1-216-825-11 METAL CHIP 2.2K 5% 1/10W												
KOUO -210-834-1 METAL CMIP 12K 5% 1/10W	C528	1-162-962-11	CERAMIC CHIP	4/UPF	10%	5UV						
							CUCH	1-210-034-11	IVIE IAL UTIP	IZŇ	J 70	1/1000

TC TRANS USB

Dof No	Dort No.	Description			Domark	Dof No	Dort No.	Description			Domork
Ref. No.	Part No.	<u>Description</u>	101/	F0/	Remark	Ref. No.	Part No.	-	TOD CD		Remark
R506 R507	1-216-834-11 1-216-850-11	METAL CHIP METAL CHIP	12K 270K	5% 5%	1/10W 1/10W	* CN908	1-564-509-11	PLUG, CONNEC	TUR 6P	(GT	R55/GTR77)
R508	1-216-850-11	METAL CHIP	270K	5%	1/10W	* CN909	1-564-507-11	PLUG, CONNEC	TOR 4P (GT		,
R509	1-216-814-11	METAL CHIP	270	5%	1/10W			< DIODE >			
R510	1-216-814-11	METAL CHIP	270	5%	1/10W			< DIODE >			
R511	1-216-845-11	METAL CHIP	100K	5%	1/10W	D901	8-719-991-33	DIODE 1SS133			
R512	1-216-845-11	METAL CHIP	100K	5%	1/10W	D902	8-719-991-33	DIODE 1SS133			
R513 R514	1-216-845-11 1-216-845-11	METAL CHIP METAL CHIP	100K 100K	5% 5%	1/10W 1/10W	D903 D904	8-719-991-33 8-719-991-33	DIODE 1SS133 DIODE 1SS133			
R514 R515	1-216-864-11	SHORT CHIP	0	370	1/1000	D904	8-719-991-33	DIODE 188133			
R516	1-216-864-11	SHORT CHIP	0 1K	E0/	1/10\\	D906 D907	8-719-991-33 8-719-991-33	DIODE 1SS133 DIODE 1SS133			
R517 R518	1-216-821-11 1-216-821-11	METAL CHIP METAL CHIP	1K	5% 5%	1/10W 1/10W	D907	6-500-522-21	DIODE 10EDB4			
R519	1-216-841-11	METAL CHIP	47K	5%	1/10W	D909	8-719-983-92	DIODE MTZJ-T-			
R520	1-216-841-11	METAL CHIP	47K	5%	1/10W						
DE04	4 040 044 44	METAL OLUB	471/	E0/	4/4014/			< FUSE >			
R521 R522	1-216-841-11 1-216-841-11	METAL CHIP METAL CHIP	47K 47K	5% 5%	1/10W 1/10W	F951	1-523-080-11	FUSE 6.3A 250V			
R522 R523	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	△ F952	1-523-080-11	FUSE 6.3A 250V	(GTR55/GT	R77)	
R524	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	△ F953	1-523-080-11	FUSE 6.3A 250V			
R525	1-216-851-11	METAL CHIP	330K	5%	1/10W	△ F954	1-523-080-11	FUSE 6.3A 250V	(,	
						⚠ F955	1-523-082-11	FUSE 1A 250V (0	GTR77: MX)		
R526	1-216-851-11	METAL CHIP	330K	5%	1/10W	* 5050	4 500 000 44	FUCE 2 454 050\	,		
R527 R528	1-216-851-11 1-216-851-11	METAL CHIP METAL CHIP	330K 330K	5% 5%	1/10W 1/10W	F956	1-523-086-11	FUSE 3.15A 250\	/		
R529	1-216-825-11	METAL CHIP	2.2K	5%	1/10W			< TRANSFORME	R >		
R530	1-216-825-11	METAL CHIP	2.2K	5%	1/10W			THU WOT OTHER			
						⚠ PT902	1-443-927-21	TRANSFORMER		, , ,	
R531	1-216-832-11	METAL CHIP	8.2K	5%	1/10W	⚠ PT902	1-445-875-11	POWER TRANSF	FORMER (S	UB) (EXC	EPT MX)
R532 R533	1-216-832-11 1-216-837-11	METAL CHIP METAL CHIP	8.2K 22K	5% 5%	1/10W 1/10W			< TRANSISTOR :			
R533	1-216-835-11	METAL CHIP	15K	5%	1/10W			\ TRANSISTOR			
R535	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	Q902	8-729-048-66	TRANSISTOR	2SB1238-I	PQR-TV2	
						Q903	8-729-119-78	TRANSISTOR	2SC2785-	HFE	
R536	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R537	1-216-833-11	METAL CHIP	10K	5%	1/10W			< RESISTOR >			
R538 R539	1-216-833-11 1-216-793-11	METAL CHIP METAL CHIP	10K 4.7	5% 5%	1/10W 1/10W	R904	1-247-831-91	CARBON	1K	5%	1/4W
R540	1-216-805-11	METAL CHIP	4.7	5%	1/10W	R915	1-247-847-91	CARBON	4.7K	5%	1/4W
11010	1210 000 11	ME II LE OI III	.,	070	171011	R952	1-249-429-11	CARBON	10K	5%	1/4W
R541	1-216-805-11	METAL CHIP	47	5%	1/10W	⚠ R955	1-217-637-55	FUSIBLE	1	5%	1/4W
R543	1-216-813-11	METAL CHIP	220	5%	1/10W						GTR77: MX)
R544	1-216-813-11	METAL CHIP	220	5%	1/10W	R957	1-249-424-11	CARBON	3.9K	5%	1/4W
R545 R546	1-216-817-11 1-216-817-11	METAL CHIP METAL CHIP	470 470	5% 5%	1/10W 1/10W			< RELAY >			
11040	1-210-017-11	WE TAL OTH	470	J /0	1/1000			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
		< SWITCH >				⚠ RY901	1-755-334-11	RELAY, AC POW	ER		
S501	1-762-369-11	SWITCH, SLIDE	(REC/PB)					< SWITCH >			
		******	*****	*****	*****						
		TDANC DOADD				△ S901	1-786-055-31	SELECTOR, VOL			*******
		TRANS BOARD									
								USB BOARD			
		< CAPACITOR >						*******			
C903	1-136-153-00	FILM	0.01uF	5%	50V			< CAPACITOR >			
C904	1-136-153-00	FILM	0.01uF	5%	50V						
C908	1-128-576-11	ELECT	100uF	20%	63V	C1002	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C909	1-126-964-11	ELECT	10uF	20%	50V	C1003	1-126-176-11	ELECT	220uF	20%	10V
C910	1-126-968-11	ELECT	100uF	20%	50V	C1004	1-164-156-11	CERAMIC CHIP	0.1uF	100/	25V
C911	1-126-767-11	ELECT	1000uF	20%	16V	C1005 C1006	1-165-989-11 1-126-176-11	CERAMIC CHIP ELECT	10uF 220uF	10% 20%	6.3V 10V
C911	1-126-767-11	ELECT	3.3uF	20%	50V	01000	1-140-110-11	LLLUI	ZZUUI'	ZU /0	101
						C1007	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR	>			C1008	1-164-156-11	CERAMIC CHIP	0.1uF		25V
CNIOO4	1 604 064 44	DINI CONNECTO		םט/ אם		C1009	1-164-156-11	CERAMIC CHIP	0.1uF	100/	25V
CN901 * CN907	1-691-961-11 1-764-334-11	PIN, CONNECTO PLUG, CONNEC	*	,		C1010 C1011	1-162-964-11 1-162-964-11	CERAMIC CHIP	0.001uF 0.001uF	10% 10%	50V 50V
011007	1 1 UT-004-11	. LOO, OOMINEO				0.011	. 102 00 1 -11	JEI WINNO OF III	0.00 (0)	1070	001

USB VOL

Dof No	Part No	Description			Domark	Dof No	Part No.	Description	Remark
Ref. No.	Part No.		-D-	0.0505	Remark	Ref. No.	<u>raitino.</u>	<u>Description</u>	Remark
C1012 C1013	1-162-910-11 1-162-910-11	CERAMIC CHIP CERAMIC CHIP	5PF 5PF	0.25PF 0.25PF	50V 50V			MISCELLANEOUS *********	
		< CONNECTOR :	>			59	1-797-575-11	DECK, MECHANICAL (E4)	
0114000	1 040 000 44	0011150705 11	00 (4) (050	(DI A) (D)		103	1-828-311-51	WIRE (FLAT TYPE) (9 CORE)	
CN1000 CN1001	1-819-866-11 1-819-866-11	CONNECTOR, U	` ' '	,		104 105	1-836-973-11 1-828-975-11	WIRE (FLAT TYPE) (7 CORE) WIRE (FLAT TYPE) (13 CORE)	
0111001	1010 000 11	CONTRACTOR, C	05 (1) (1 51	174)		155	1-838-059-11	FLEXIBLE FLAT CABLE (23 CC	
		< DIODE >				450	4 000 004 44	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(OTD55(OTD77)
D1000	6-502-795-01	DI 1L0351B12C0	MXT02			156 251	1-828-964-11 1-828-952-11	WIRE (FLAT TYPE) (11 CORE) WIRE (FLAT TYPE) (9 CORE)	(G1R55/G1R77)
D1002	6-503-224-01	DI 1L0351V22F0I				252	1-457-369-12	CORE, FERRITE	
D1003	6-502-795-01	DI 1L0351B12C0				255	1-693-778-31	TUNER (FM/AM)	
D1004 D1005	6-501-579-01 6-501-579-01	DIODE MC2837 DIODE MC2837				△ 257	1-777-071-83	CORD, POWER (E2, E51, E4)	
D 1000	0 001 010 01	DIODE MOZGOT				₾ 257	1-837-312-11	CORD, POWER-SUPPLY (AR)	
D1006	6-501-579-01	DIODE MC2837				1 257	1-837-344-11	CORD, POWER-SUPPLY (MX)	
D1007 D1008	6-501-579-01 6-501-579-01	DIODE MC2837 DIODE MC2837				<u></u>	1-569-008-21 1-840-387-31	ADAPTOR, CONVERSION (E2 MECHANICAL, CD	, E51, E4)
D1000	6-501-579-01	DIODE MC2837				<u> </u>	8-820-322-04	DEVICE, OPTICAL KHM-313C/	AB/C2NP)
D1011	6-501-743-01	DIODE MAZ806					0 020 022 0 .		motor, spindle motor)
D4042	C FO4 742 04	DIODE MAZOO	.00M100			407	4 000 770 54	MIDE (ELATIME) (24 CODE)	
D1013 D1015	6-501-743-01 6-501-743-01	DIODE MAZ806 DIODE MAZ806				407 M101	1-828-773-51 1-787-344-21	WIRE (FLAT TYPE) (24 CORE) FAN, DC	
D1017	6-501-743-01	DIODE MAZ806				⚠ PT901	1-445-827-11	POWER TRANSFORMER (MA	IN) (GTR33: MX)
D1018	6-501-743-01	DIODE MAZ806				⚠ PT901	1-445-828-11	POWER TRANSFORMER (MA	, \
D1019	6-501-743-01	DIODE MAZ806	i8GMLS0			⚠ PT901	1-445-829-11	POWER TRANSFORMER (MA	IN) GTR33: E2, E51, AR)
		< JUMPER RESI	STOR >			<u></u>	1-445-830-11	POWER TRANSFORMER (MA	,
JR102	1-216-296-11	SHORT CHIP	0			⚠ PT901	1-445-831-11	POWER TRANSFORMER (MA	
JR103	1-216-296-11	SHORT CHIP	0			⚠ PT901	1-445-832-11	POWER TRANSFORMER (MA	IN)
		< RESISTOR >				<u></u>	1-445-834-11)) POWER TRANSFORMER (MA	GTR77: E2, E51, AR)
		< KLSISTOR >				⚠ PT901	1-445-835-11	POWER TRANSFORMER (MA	, ,
R1001	1-216-817-11	METAL CHIP	470	5%	1/10W			` (0	STR55: E2, E51, AR)
R1002 R1004	1-216-817-11 1-216-823-11	METAL CHIP	470 1.5K	5%	1/10W 1/10W	PT901	1 445 026 11	DOWED TRANSCORMED (MA	IN) (CTDEE, E4)
R1004 R1005	1-216-823-11	METAL CHIP METAL CHIP	1.5K 1.5K	5% 5%	1/10W	********	1-445-836-11 ******	POWER TRANSFORMER (MA ************************************	
R1008	1-216-817-11	METAL CHIP	470	5%	1/10W				
R1009	1-216-817-11	METAL CHIP	470	5%	1/10W				

		VOL BOARD							

		< CAPACITOR >							
04004	4 400 004 44	OFDAMIO OLUD	0.004 5	400/	F0\/				
C1301	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V				
		< RESISTOR >							
R1302	1-216-833-11	METAL CHIP	10K	5%	1/10W				
R1303	1-216-835-11	METAL CHIP	15K	5%	1/10W				
R1304	1-216-837-11	METAL CHIP	22K	5%	1/10W				
		< SWITCH >							
S1301	1-487-171-11	ROTARY ENCOD	DER (MASTE	R VOLUM	1E)				
S1302	1-786-289-31	SWITCH, DETEC	CTION (DETE	ECTION S'	WÍTCH)				
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REVISION HISTORY

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

Ver.	Date	n at the top of the revised page allows you to jump to the next revised page. Description of Revision
1.0	2010.03	New