JVC

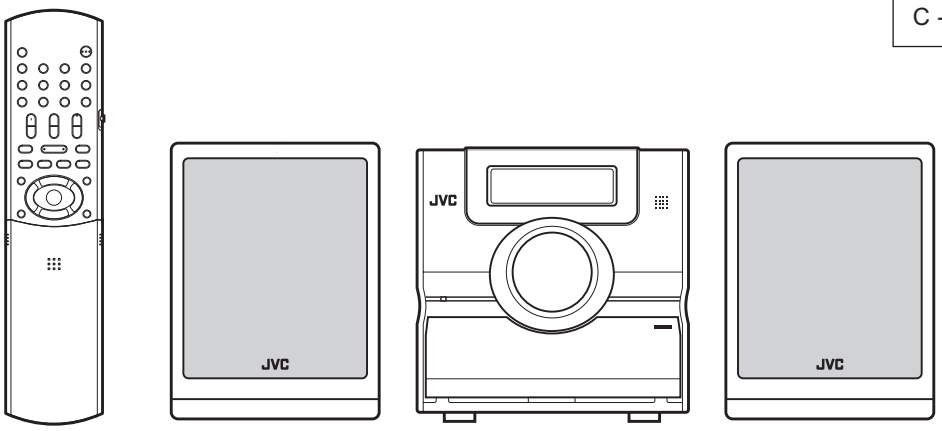
SERVICE MANUAL

COMPACT COMPONENT SYSTEM

EX-D5

Area suffix

J ---------- U.S.A.
C ---------- Canada



SP-EXD1 CA-EXD5 SP-EXD1

WOOD CONE DVD AUDIO /VIDEO DOLBY DIGITAL dts 2.0+DIGITAL OUT COMPACT disc SUPER VIDEO

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

TABLE OF CONTENTS

No.MB433
2005/7

SPECIFICATION

General	Power source		AC 120 V , 60 Hz
	Power consumption		25 W (in operation) 1.0 W (on standby)
	Weight		3.0 kg (6.7 lbs)
	External dimensions (W × H × D)		150 mm × 152 mm × 246 mm (5-15/16 in. × 6 in. × 9-11/16 in.)
DVD player	Playable discs		DVD VIDEO, DVD AUDIO, VCD,SVCD, CD, CD-R/RW (CD, VCD,MP3, WMA, JPEG format),DVD-R/-RW (video format)
Video output	Color system		NTSC
	Horizontal resolution		500 lines
	Composite × 1		1.0 V (p-p)/75 Ω, synchronization negative
	S-video × 1		Y output: 1.0 V (p-p)/75 Ω, synchronization negative C output: 0.286 V (p-p)/75 Ω
	Component × 1		Y output: 1.0 V (p-p)/75 Ω PB/PR output: 0.7 V (p-p)/75 Ω
Audio output	Analog sound output	Speakers × 2	Output power: 18 W per channel, min. RMS, at 4 Ω at 1 kHz with no more than 10% total harmonic distortion. Fitting impedance: 4 Ω to 16 Ω
		Headphones × 1	11 mW/32 Ω Fitting impedance: 16 Ω to 1 kΩ
		Subwoofer × 1	500 mVrms/10 kΩ
	Digital sound output	Optical × 1	-21 dBm to -15 dBm
Audio input	Sound input	AUX × 1	400 mV/50 kΩ
USB Wireless Transmission			The USB wireless transmitter supplied with this System supports Direct Sequence Spreading Spectrum (DSSS) using 2.4 GHz frequency band.
Tuner	FM tuner	Receiving frequency	87.5 MHz to 108.0 MHz
		Antenna	75 Ω- Unbalanced type
	AM tuner	Receiving frequency	530 kHz to 1 710 kHz
		Antenna	External antenna jack (loop antenna)
Speaker	Type		Full range 1-way bass-reflex type Magnetically shielded type
	Speaker		8cm (3 3/16 inches) cone × 1
	Frequency response		55 to 20 000 Hz
	Power handling capacity		30 W
	Impedance		4Ω
	Sound pressure level		80 dB/W m
	Dimension (W × H × D)		120 mm × 151 mm × 241 mm (4-3/4 in. × 6 in. × 9-1/2 in.)
	Weight		1.8 kg (4.0 lbs) each

Designs and specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 Safety Precautions

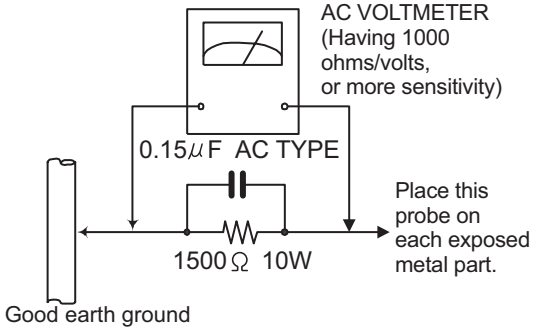
(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.

(4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

(5) Leakage shock hazard testing
After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.Do not use a line isolation transformer during this check.
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000Ω per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
Measure the AC voltage across the resistor with the AC voltmeter.
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

(1) This equipment has been designed and manufactured to meet international safety standards.
(2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
(3) Repairs must be made in accordance with the relevant safety standards.
(4) It is essential that safety critical components are replaced by approved parts.
(5) If mains voltage selector is provided, check setting for local voltage.

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.
Therefore, pay attention to such burrs in the case of preforming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▮) and ICP (●) or identified by the " ⚠ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.
(This regulation dose not Except the J and C version)

1.5 Preventing static electricity

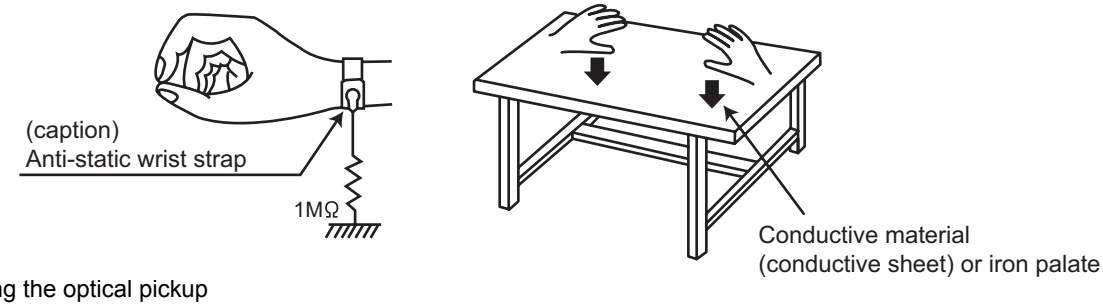
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.5.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products.
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench
Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself
Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup
- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

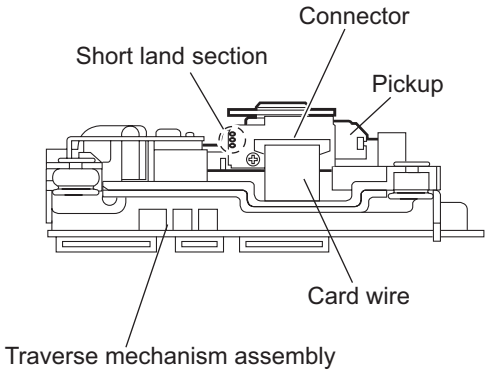
1.6 Handling the traverse unit (optical pickup)

(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
(3) Handle the flexible cable carefully as it may break when subjected to strong force.
(4) I t is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

1.7 Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for the pickup unit.**

- Apply solder to the short land sections before the flexible wire is disconnected from the connecto on the servo board. (If the flexible wire is disconnected without applying solder, the pickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land sections after connecting the flexible wire.



SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3
DISASSEMBLY

3.1 Main body section

3.1.1 Removing the side panel L and side panel R (See Figs.1 to 4)

(1) From the back side of the main body, remove the four screws **A** attaching the side panels L/R. (See Fig.1.)
(2) From the bottom side of the main body, remove the four screws **B** attaching the side panels L/R. (See Fig.2.)
(3) From the both sides of the main body, release the joint **a** in the direction of the arrow and remove the side panels L/R toward this side. (See Figs.3 and 4.)

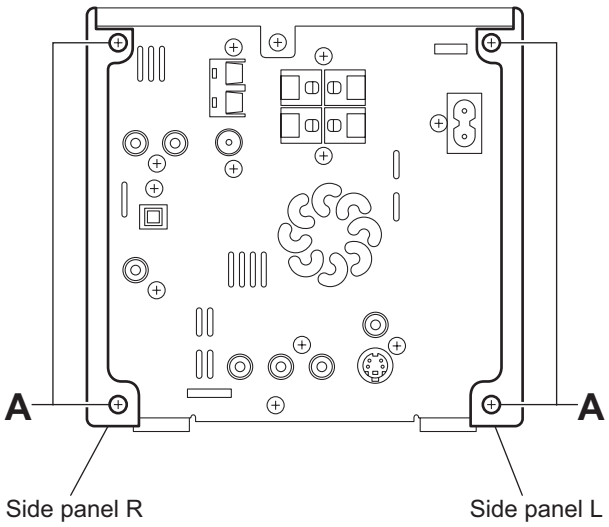


Fig.1

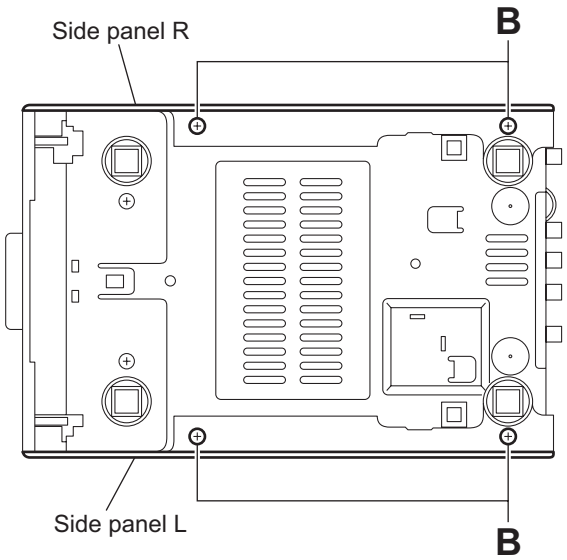


Fig.2

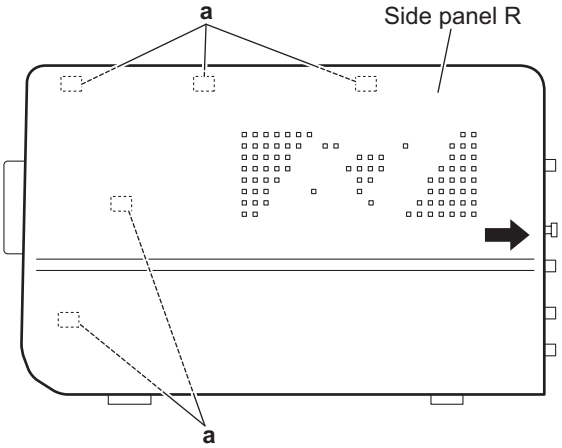


Fig.3

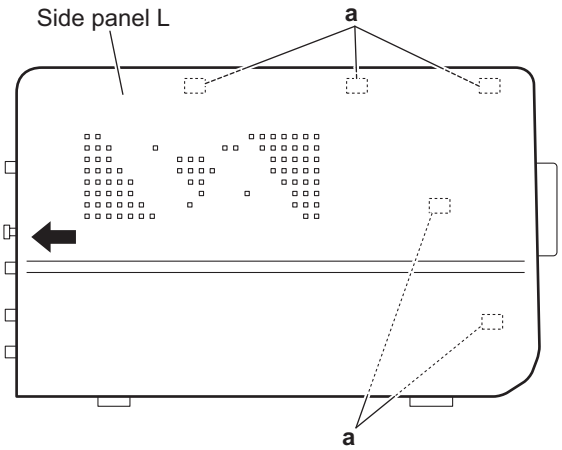


Fig.4

3.1.2 Removing the top panel assembly (See Figs.5 to 6)

- Remove the side panels L/R.

(1) From the front side of the main body, pull out the volume knob assembly in the direction of the arrow. (See Fig.5.)

(2) Remove the two screws **C** and remove the volume ornament. (See Fig.5.)

(3) From the both sides of the main body, remove the two screws **D**, two screws **E** and screw **F**. (See Figs.5 and 6)

Reference:

When attaching the screw **F**, attach the earth wire with it. (See Fig.6.)

(4) From the back side of the main body, remove the screw **G** attaching the top panel assembly. (See Fig.6.)

(5) From the both sides of the main body, release the joints **b** and remove the joints **c** in the direction of the arrow. (See Figs.5 and 6.)

(6) Disconnect the card wire from the connector CN427 on the micom board while lifting the top panel assembly. (See Fig.5.)

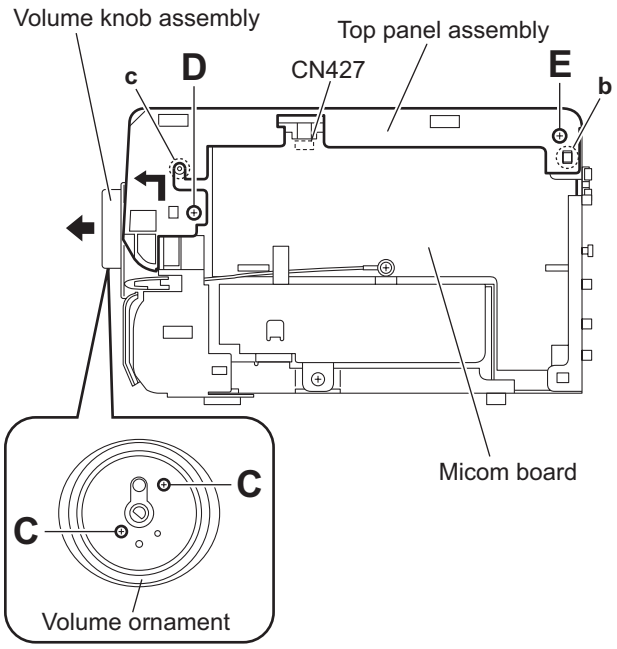


Fig.5

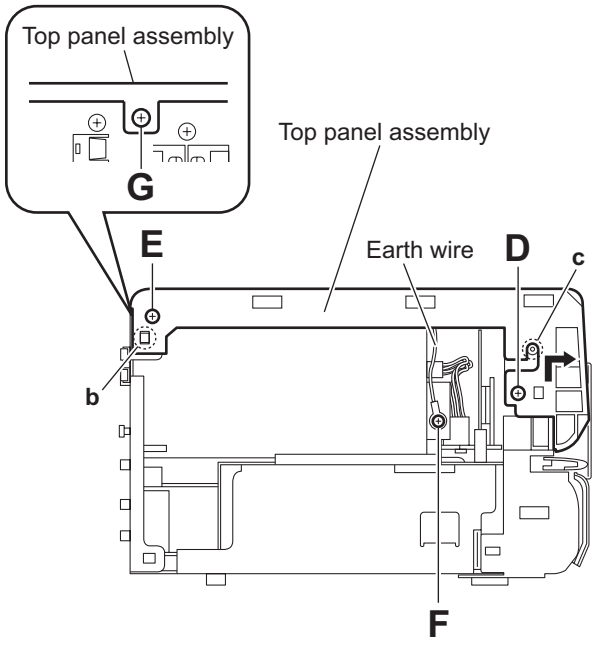


Fig.6

3.1.3 Removing the front panel assembly (See Figs.7 to 9)

- Remove the side panels L/R and top panel assembly.
  (1) From the bottom side of the main body, remove the two screws **H** attaching the front panel assembly. (See Fig.7.)
  (2) From the forward side of the micom board, disconnect the card wire from the connector CN426. (See Fig.8.)
  (3) Disconnect the wire from the connector CN501 on the micom board. (See Fig.8.)
  (4) From the right side of the main body, remove the screw **J** and remove the earth wire. (See Fig.8.)

  Reference:
  - When attaching the screw **J**, attach the earth wire with it as before. (See Fig.8.)
  - After attaching the earth wire, fix it with the spacer as before. (See Fig.8.)

  (5) From the bottom and both sides of the main body, release the joints (**d**, **e**) of the front panel assembly and remove the front panel assembly in the direction of the arrow. (See Figs.7 to 9.)

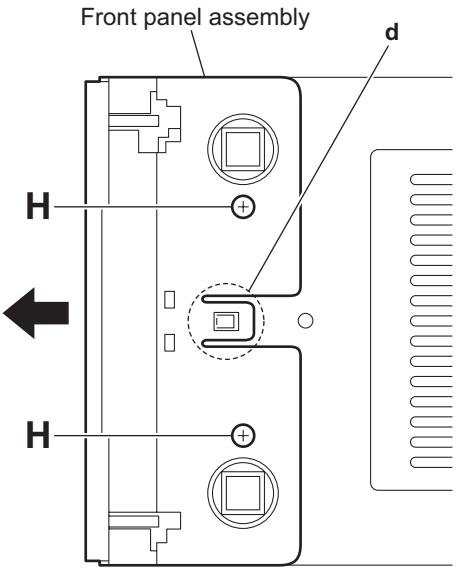


Fig.7

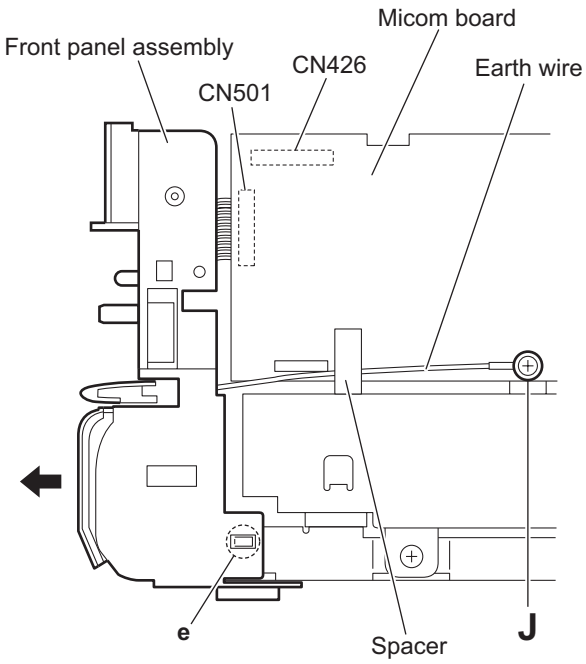


Fig.8

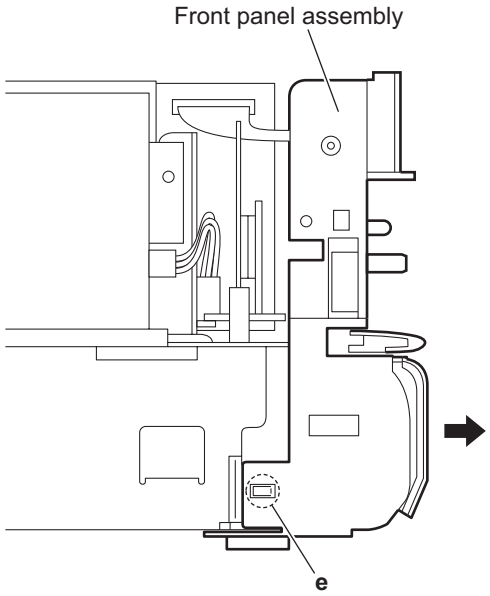


Fig.9

3.1.4 Removing the tuner (See Figs.10 and 11)

- Remove the side panels L/R and top panel assembly.
  (1) From the back side of the main body, remove the two screws **K** attaching the tuner to the rear panel. (See Fig.10.)
  (2) Disconnect the card wire from the connector CN1 on the tuner. (See Fig.11.)

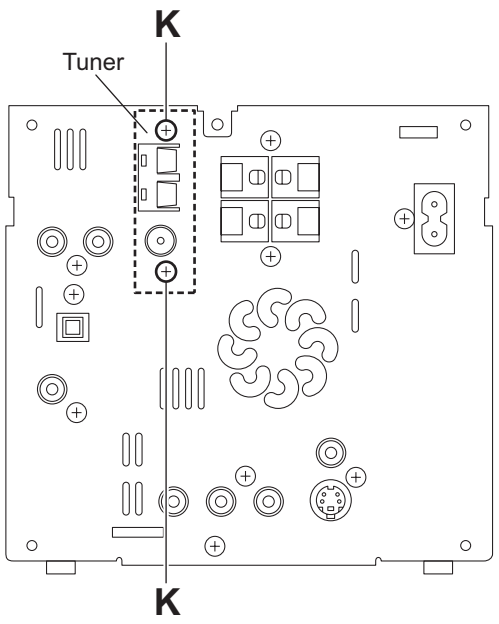


Fig.10

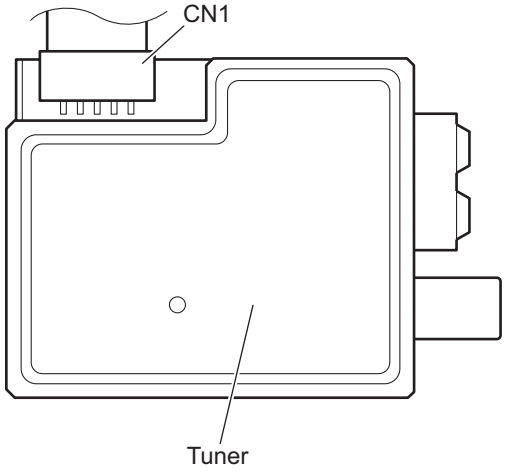


Fig.11

3.1.5 Removing the rear panel (See Fig.12)

- Remove the side panels L/R and top panel assembly.
  (1) From the back side of the main body, remove the ten screws **M** and screw **N** attaching the rear panel.
  (2) From the top side of the main body, disconnect the earth wire from the rear panel in the direction of the arrow.
  (3) From the both sides of the main body, release the joints **f** and remove the rear panel.

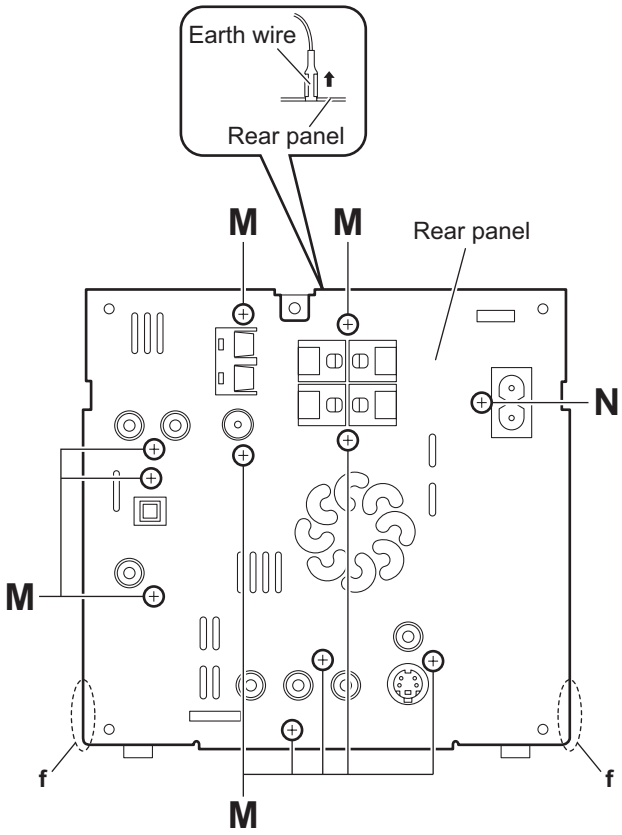


Fig.12

3.1.6 Removing the switching power supply (See Figs.13 and 14)

- Remove the side panels L/R, top panel assembly and rear panel.
  (1) From the top side of the main body, disconnect the wire from the connector CN200 on the regulator board. (See Fig.13.)
  (2) Take out the switching power supply in the direction of the arrow. (See Fig.14.)

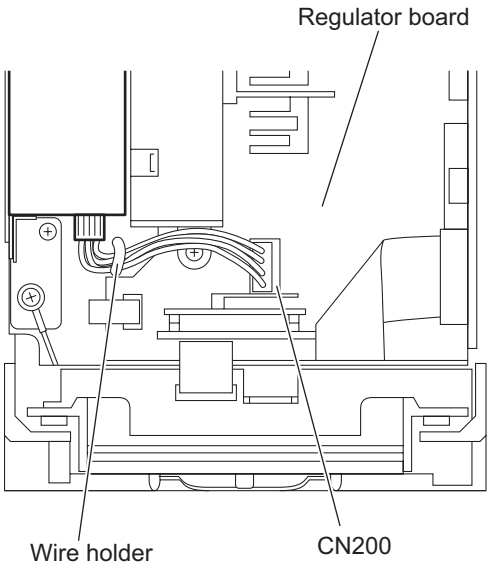


Fig.13

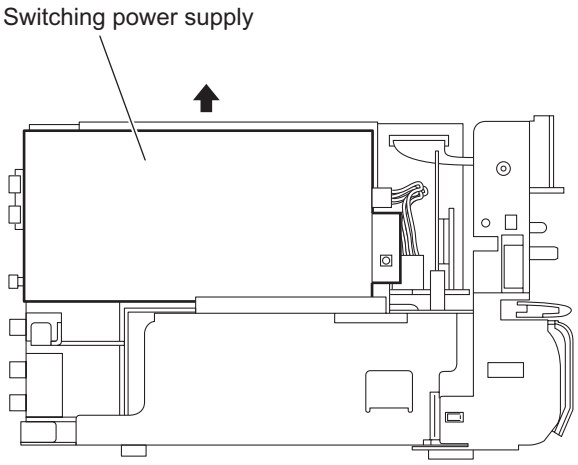


Fig.14

3.1.7 Removing the digital amplifier board assembly (See Figs.15 and 16)

- Remove the side panels L/R, top panel assembly, rear panel and switching power supply.
  (1) From the top side of the main body, remove the screw **P** attaching the digital amplifier board assembly. (See Fig.15.)
  (2) From the left side of the main body, disconnect the connectors (CN310, CN311, CN312) on the digital amplifier board assembly from the regulator board. (See Fig.16.)
  (3) Release the joint **g** of the shield case B in the direction of the arrow and take out the digital amplifier board assembly from the main body. (See Fig.16.)

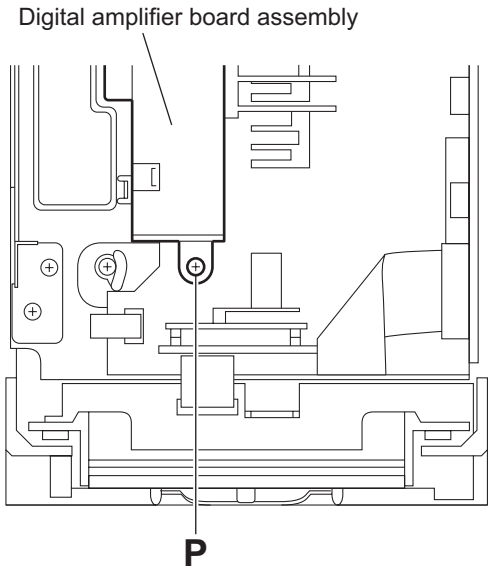


Fig.15

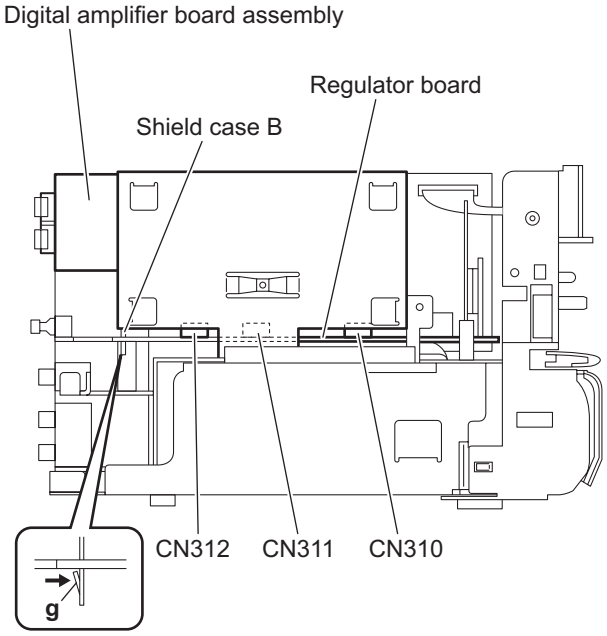


Fig.16

3.1.8 Removing the digital amplifier board (See Figs.17 to 22)

- Remove the side panels L/R, top panel assembly, rear panel, switching power supply and digital amplifier board assembly.
  (1) From the forward side of the digital amplifier board assembly, remove the screw **Q**. (See Fig.17.)
  (2) From the top and bottom sides of the digital amplifier board assembly, remove the three screws **R**. (See Figs.18 and 19.)
  (3) Release the joints (**h**, **j**, **k**, **m**) and remove the shield case B with the heat sink in the direction of the arrow. (See Figs.18 to 21.)
  (4) From the forward side of the digital amplifier board, remove the screw **R** attaching the heat sink. (See Fig.22.)
  (5) Remove the solders from the soldered sections (n, p) and bend the sections (q, r) of the shield case A in the direction of the arrow. (See Fig.22.)
  (6) Take out the digital amplifier board from the shield case A.

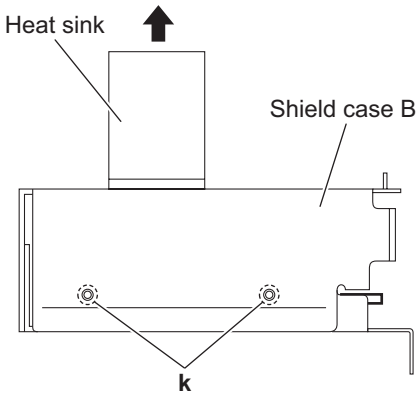


Fig.20

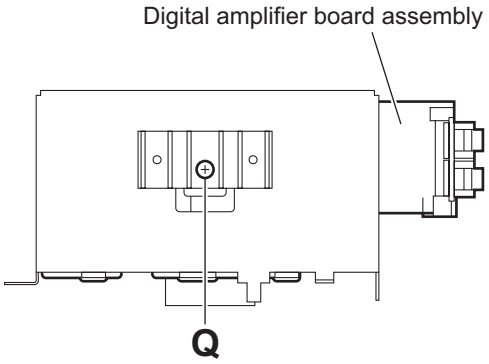


Fig.17

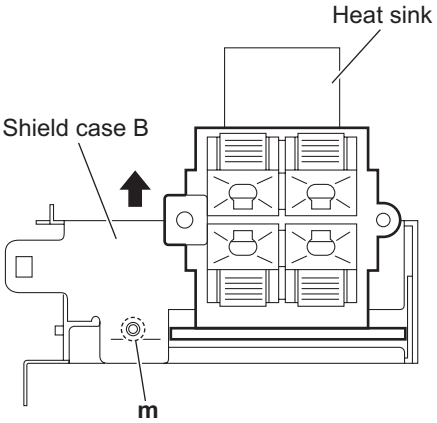


Fig.21

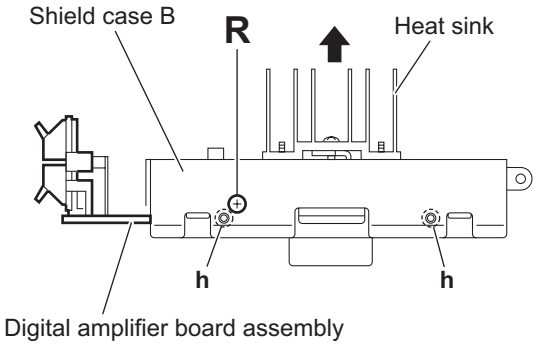


Fig.18

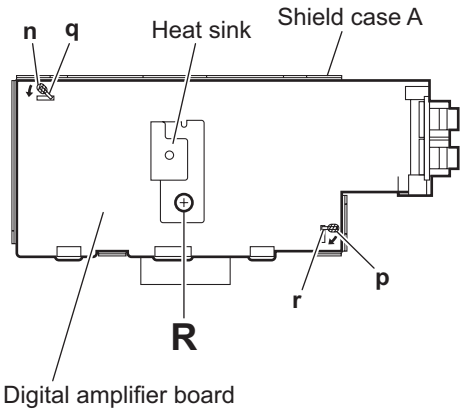


Fig.22

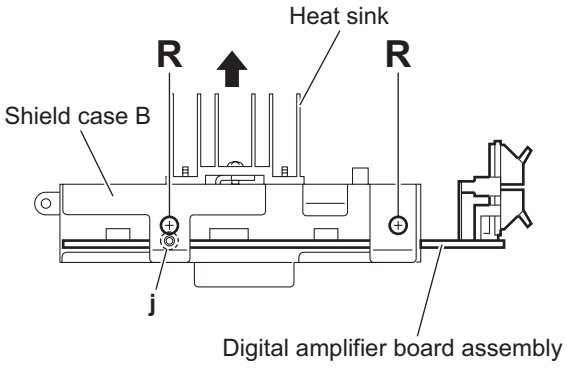


Fig.19

3.1.9 Removing the micom board (See Fig.23)

- Remove the side panels L/R, top panel assembly and rear panel.
  (1) From the right side of the main body, remove the screw **S** attaching the micom board.

  Reference:
  - When attaching the screw **S**, attach the earth wire with it.
  - After attaching the earth wire, fix it with the spacer as before.

  (2) Disconnect the card wire from the connector CN421 on the forward side of the micom board.

  Reference:
  Remove the tuner as required. (See Figs.10 and 11.)

  (3) Disconnect the card wire from the connector CN426 on the forward side of the micom board.
  (4) Disconnect the wire from the connector CN501 on the forward side of the micom board.
  (5) Disconnect the connectors (CN423, CN424, CN425) on the micom board from the regulator and video boards toward this side to remove the micom board.

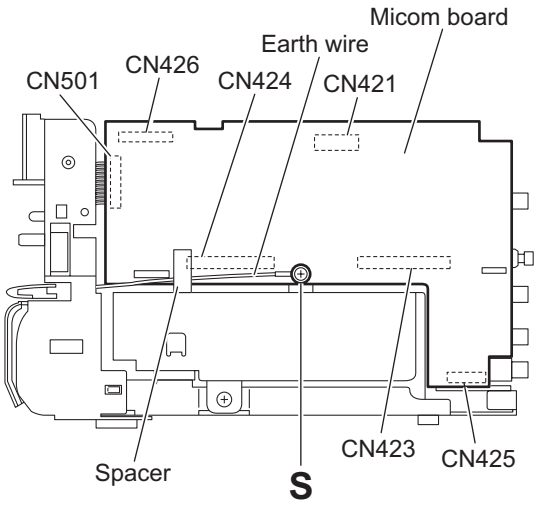


Fig.23

3.1.10 Removing the regulator board
(See Fig.24)

- Remove the side panels L/R, top panel assembly, tuner, rear panel, switching power supply, digital amplifier board assembly and micom board.

(1) From the top side of the main body, disconnect the card wires from the connectors (CN208, CN210) on the regulator board.

Reference:

When connecting the card wire to the connector CN208, pass it through the hole s of the regulator board as before.

(2) Remove the screw **T**, screw **T'** and screw **T"**.

Reference:

- When attaching the screw **T'**, attach the wire holder with it.
- When attaching the screw **T"**, attach the earth wires with it.

(3) Remove the screw **U** to remove the earth wire and take out the regulator board.

Reference:

When attaching the screw **U**, attach the earth wire with it.

3.1.11 Removing the transmitter board
(See Fig.24)

- Remove the side panels L/R, top panel assembly, tuner, rear panel, switching power supply, digital amplifier board assembly and micom board.

Disconnect the transmitter board from the regulator board while releasing the claw t of the connector CN203 on the regulator board.

Note:

- When releasing the claw t, take care not to break it.
- After attaching the transmitter board on the regulator board, attach the spacer as before.

3.1.12 Removing the video board
(See Fig.24)

- Remove the side panels L/R, top panel assembly, tuner, rear panel, switching power supply, digital amplifier board assembly and micom board.

Reference:

Remove the regulator board as required.

(1) From the top side of the main body, remove the screw **U** and screw **V**.

Reference:

When attaching the screw **U**, attach the earth wire with it.

(2) Take out the video board in the direction of the arrow.

(3) Disconnect the card wire from the connector CN703 on the video board.

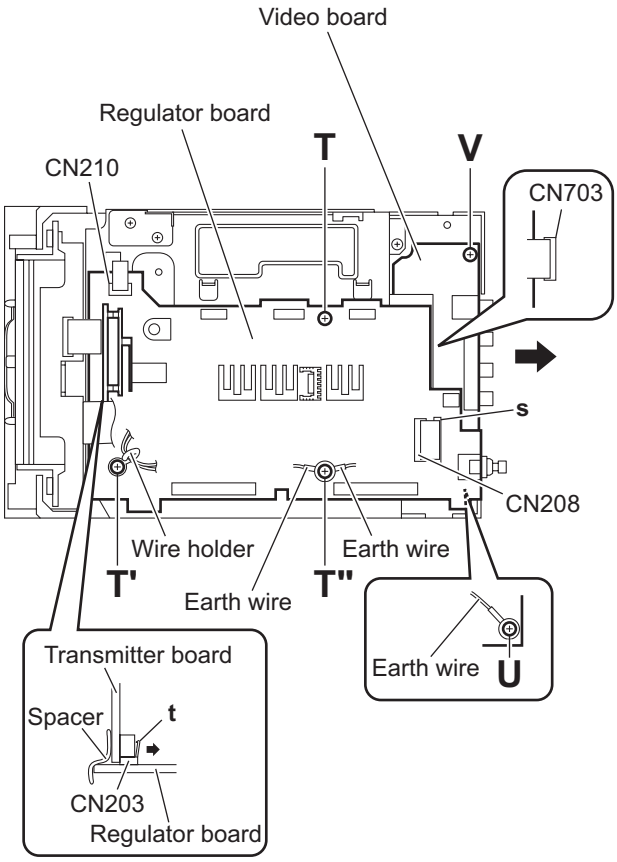


Fig.24

3.1.13 Removing the DVD mechanism assembly (See Figs.25 to 28)

- Remove the side panels L/R, top panel assembly, front panel assembly, tuner, rear panel, switching power supply, digital amplifier board assembly, micom board and regulator board.
  (1) From the right side of the main body, remove the screw **W** attaching the metal chassis. (See Fig.25.)
  (2) From the top side of the main body, remove the three screws **X** and take out the metal chassis. (See Fig.26.)

  Reference:
  When attaching the metal chassis, pass the card wire through the hole u on the metal chassis as before.
  (3) Disconnect the card wire from the connector CN703 on the video board. (See Fig.27.)
  (4) Remove the screw **Y** and take out the DVD mechanism assembly from the bottom chassis. (See Fig.27.)

Reference:
When the resolution of DVD mechanism assembly is done sequentially, remove a CD fitting in the direction of the arrow. (See Fig.28.)

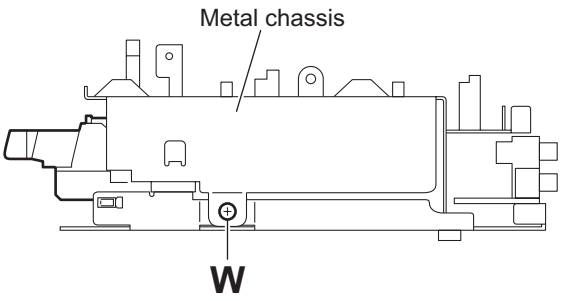


Fig.25

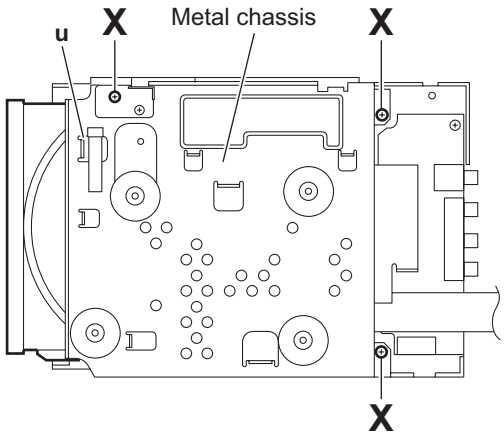


Fig.26

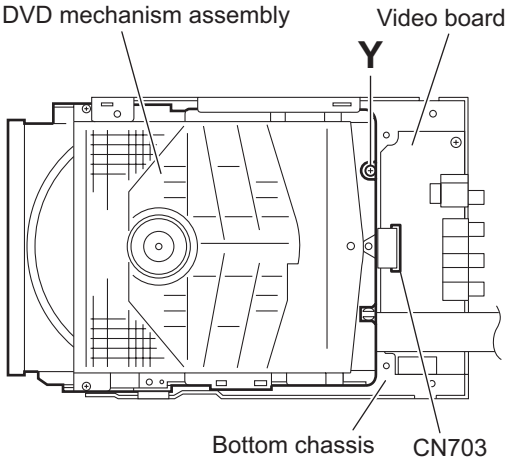


Fig.27

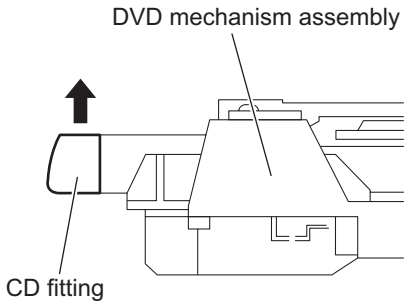


Fig.28

3.1.14 Removing the switch board
(See Fig.29)

• Remove the side panels L/R and top panel assembly.

From the inside of the top panel assembly, remove the three screws **Z** and take out the switch board.

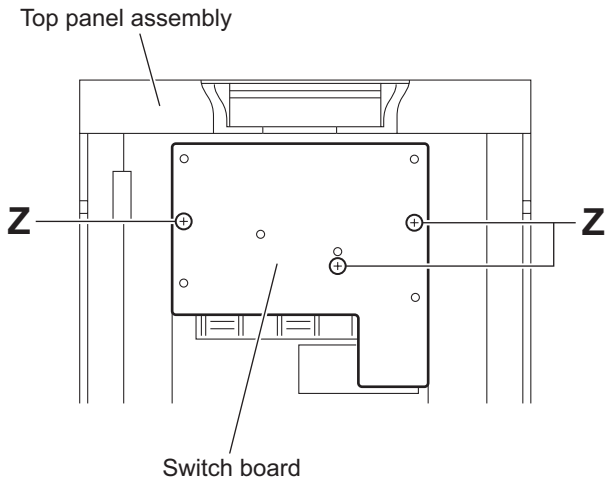


Fig.29

3.1.15 Removing the front board
(See Fig.30)

• Remove the side panels L/R, top panel and front panel assemblies.
  (1) From the inside of the front panel assembly, disconnect the card wire from the connector CN605 on the front board.
  (2) Remove the five screws **AA** and take out the front board.

3.1.16 Removing the FL board
(See Fig.30)

• Remove the side panels L/R, top panel assembly, front panel assembly and front board.

Remove the two screws **AA** and take out the FL board.

3.1.17 Removing the headphone and LED boards
(See Fig.30)

• Remove the side panels L/R, top panel and front panel assemblies.
  (1) Remove the two screws **AA**.
  (2) Take out the headphone board with the LED board.

Reference:

After attaching the headphone and LED boards, attach the spacers as before.

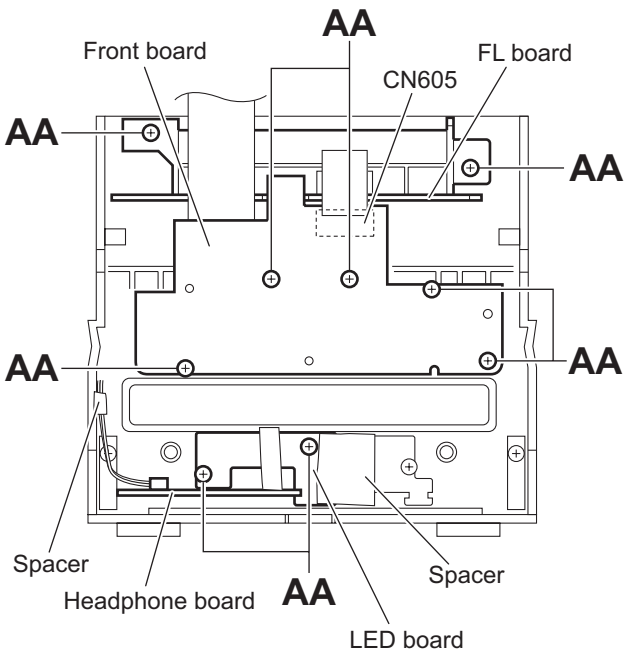


Fig.30

3.2 DVD mechanism section

- Remove the DVD mechanism assembly from the main body. (See "Removing the DVD mechanism assembly".)

3.2.1 Removing the clamper base (See Fig.1)

(1) From the top side of the DVD mechanism assembly, remove the two screws **A** attaching the clamper base.
(2) Lift the clamper base in an upward direction to remove it from the projections **a** of the DVD mechanism assembly.
(3) Slide the clamper base in the direction of the arrow and remove it from the joints **b**.

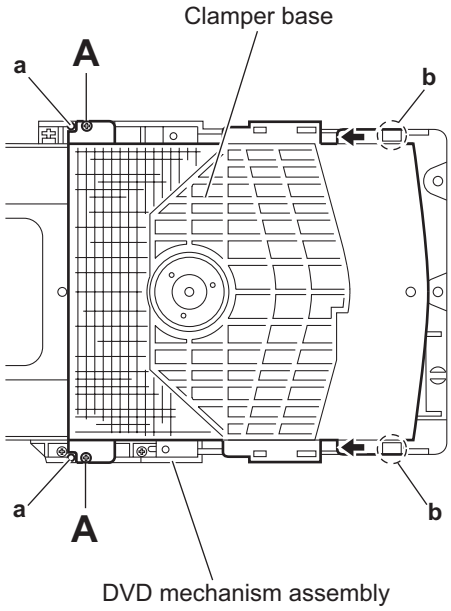


Fig.1

3.2.2 Removing the tray assembly (See Fig.2)

(1) From the top side of the DVD mechanism assembly, remove the two screws **B** attaching the shaft guide of the tray assembly.
(2) Remove the tray assembly from the projections **c** of the DVD mechanism assembly and take out the tray assembly.

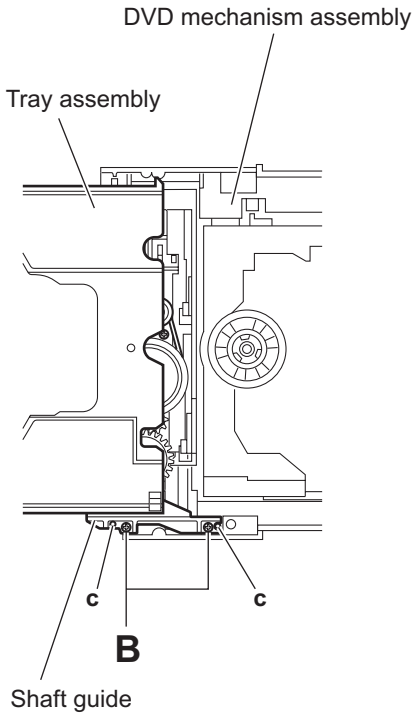


Fig.2

3.2.3 Removing the traverse mechanism assembly (See Figs.3)

(1) From the bottom side of the DVD mechanism assembly, remove the four screws **C** attaching the traverse mechanism assembly.
(2) Take out the traverse mechanism assembly with the DVD module board.

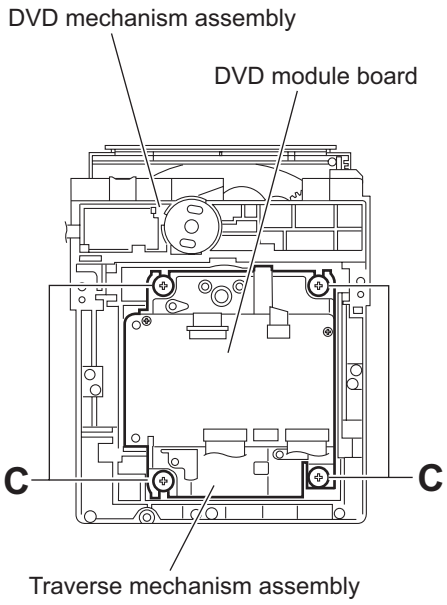


Fig.3

3.2.4 Removing the DVD module board (See Figs.4 and 5)

• Remove the traverse mechanism assembly.
(1) From the side of the traverse mechanism assembly, solder the short land sections **d** on the pickup. (See Fig.4.)
(2) From the bottom side of the traverse mechanism assembly, release the lock of the connector CN101 on the DVD module board in the direction of the arrow 1 and disconnect the card wire. (See Fig.5.)

Caution:
- Solder the short land sections **d** on the pickup before disconnecting the card wire from the connector CN101 on the DVD module board. If the card wire is disconnected without attaching solder, the pickup may be destroyed by static electricity. (See Figs.4 and 5.)
- When attaching the DVD module board, be sure to remove solders from the short land sections **d** after connecting the card wire to the connector CN101 on the DVD module board. (See Figs.4 and 5.)

(3) Disconnect the card wire from the connector CN201 on the DVD module board. (See Fig.5.)
(4) Remove the two screws **D** attaching the DVD module board. (See Fig.5.)
(5) Remove the DVD module board from the projection **e** in an upward direction and remove the engagement section **g** in the direction 3 while removing the engagement section **f** in the direction of the arrow 2. (See Fig.5.)

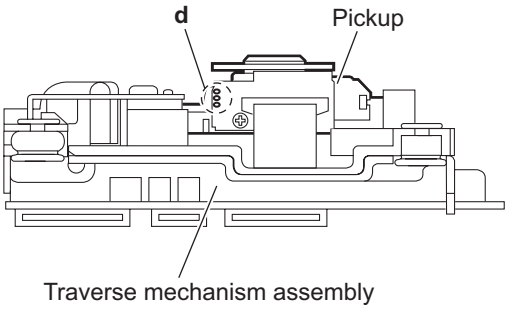


Fig.4

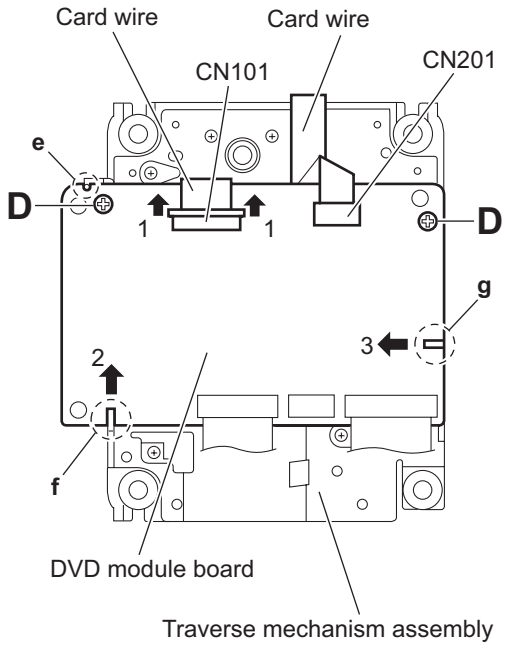


Fig.5

3.2.5 Removing the pickup (See Figs.4,6 to 8)

- Remove the traverse mechanism assembly.
  (1) From the side of the traverse mechanism assembly, solder the short land sections **d** on the pickup. (See Fig.4.)
  (2) Release the lock of the connector on the pickup in the direction of the arrow and disconnect the card wire. (See Fig.6.)

  Caution:
  - Solder the short land sections **d** on the pickup before disconnecting the card wire from the connector on the pickup. If the card wire is disconnected without attaching solder, the pickup may be destroyed by static electricity. (See Figs.4 and 6.)
  - When attaching the pickup, be sure to remove solders from the short land sections **d** after connecting the card wire to the connector on the pickup. (See Figs.4 and 6.)

  (3) Remove the screw **E** attaching the plate and thrust spring. (See Fig.6.)
  (4) Remove the engagement section **h** attaching the plate to the feed holder and remove the plate. (See Fig.6.)
  (5) Remove the engagement sections (**i**, **j**), remove the thrust spring. (See Fig.6.)
  (6) Remove the shaft of the pickup from the section **k** on the traverse mechanism assembly and remove the shaft from the section **m** while moving it in the direction of the arrow. (See Fig.7.)
  (7) Remove the pickup from the section **n** of the traverse mechanism assembly and take out the pickup with the shaft. (See fig.7.)
  (8) From the bottom side of the pickup, remove the two screws **F** attaching the SW actuator and lead spring. (See Fig.8.)
  (9) Pull the shaft out of the pickup. (See Fig.8.)

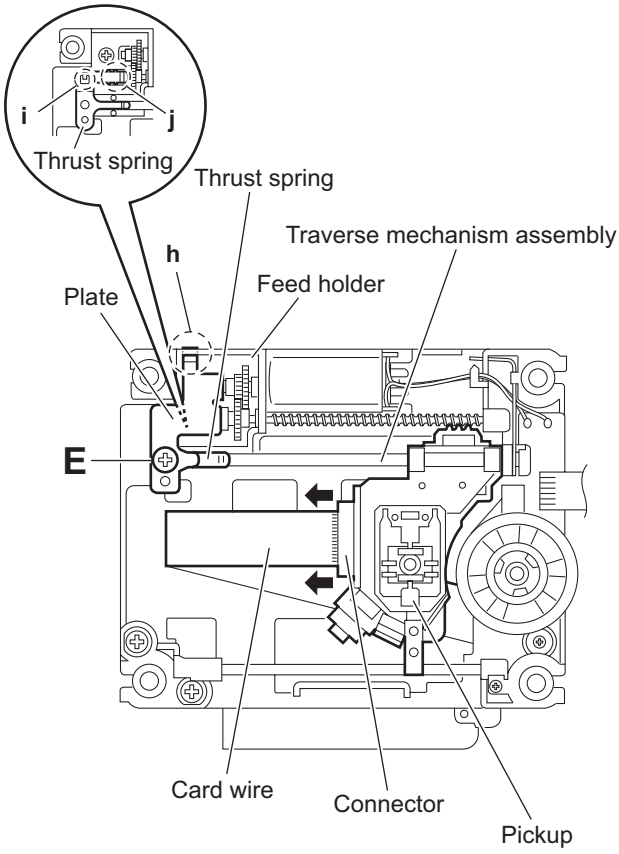


Fig.6

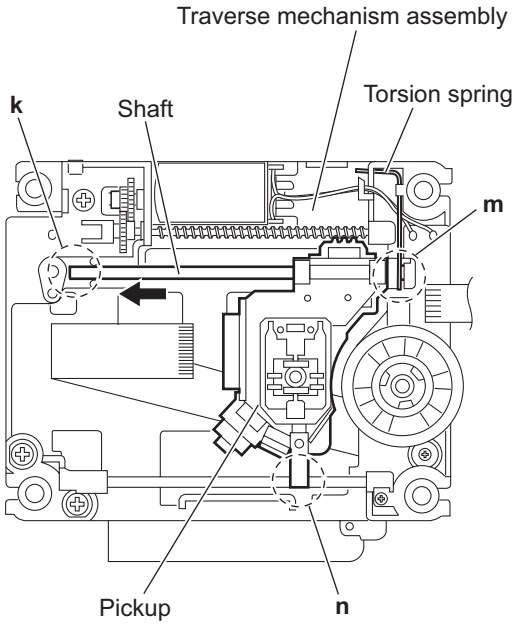


Fig.7

3.2.6 Attaching the pickup (See Figs.4,6 to 9)

- See "3.2.5 Removing the pickup".

(1) Attach the shaft, SW actuator and lead spring to the pickup. (See Fig.8.)

(2) Align the pickup to the section **n** of the traverse mechanism assembly first and set the both ends of the shaft of the pick-up in the sections (**k**, m) of the traverse mechanism assembly. (See Fig.7.)

Note:

When attaching the shaft to the section **m**, attach it under the torsion spring. (See Fig.7.)

(3) Attach the plate and thrust spring. (See Fig.6.)

(4) Remove solders from the short land sections **d** after connecting the card wire to the connector on the pickup. (See Figs.4 and 6.)

(5) Turn the feed gear M in the direction of the arrow 1 to move the pickup in the direction of the arrow 2. (See Fig.9.)

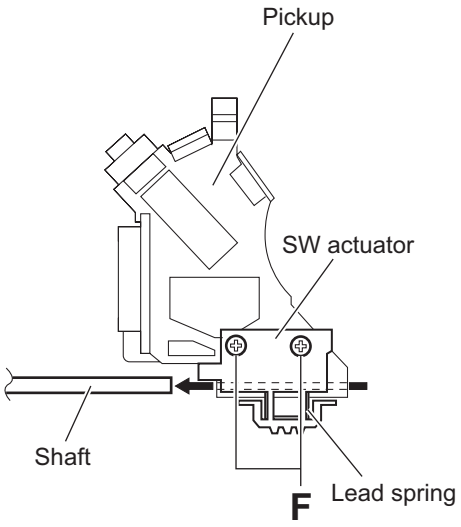


Fig.8

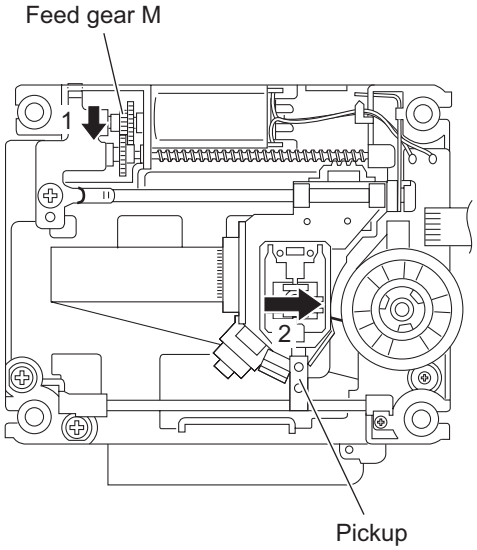


Fig.9

3.2.7 Removing the feed motor (See Figs.10 to 12)

- Remove the traverse mechanism assembly.
  (1) From the top side of the traverse mechanism assembly, remove the screw **G** attaching the plate and thrust spring. (See Fig.10.)
  (2) Remove the engagement section **p** attaching the plate to the feed holder and remove the plate. (See Fig.10.)
  (3) Remove the engagement sections (**q**, **r**), remove the thrust spring. (See Fig.10.)
  (4) Remove the wires from the soldered section **s** on the spindle motor board. (See Fig.11.)

  Reference:
  When attaching the feed motor, pass the wire through the section **t** on the spindle base. (See Fig.11.)
  (5) Remove the feed holder, feed motor, lead screw, feed gear E and feed gear M at the same time after removing the three screws **H** attaching the feed holder. (See Fig.11.)
  (6) From the side of the feed holder, remove the two screws **J** attaching the feed motor. (See Fig.12.)

3.2.8 Removing the spindle motor board (See Figs.11 and 13)

- Remove the traverse mechanism assembly and DVD module board.
  (1) From the top side of the traverse mechanism assembly, remove the wires from the soldered section **s** on the spindle motor board. (See Fig.11.)
  (2) From the bottom side of the traverse mechanism assembly, remove the three screws **K** attaching the spindle motor board. (See Fig.13.)

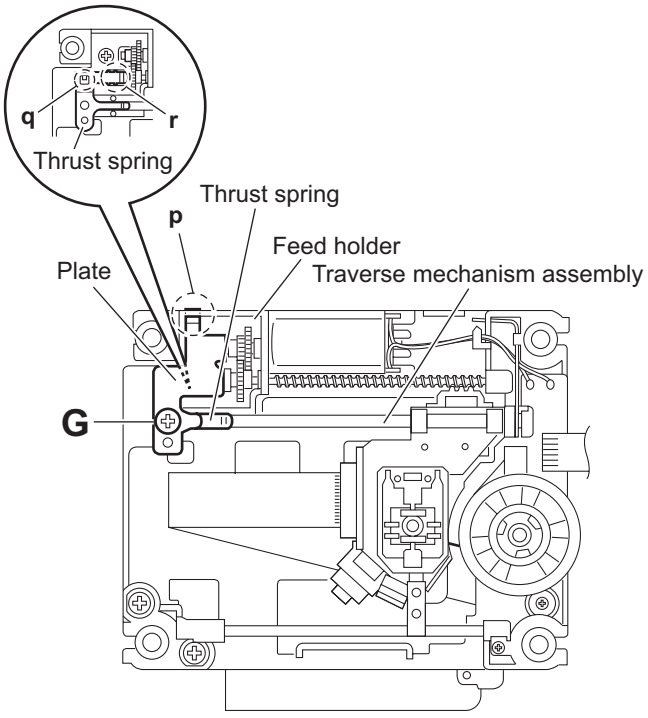


Fig.10

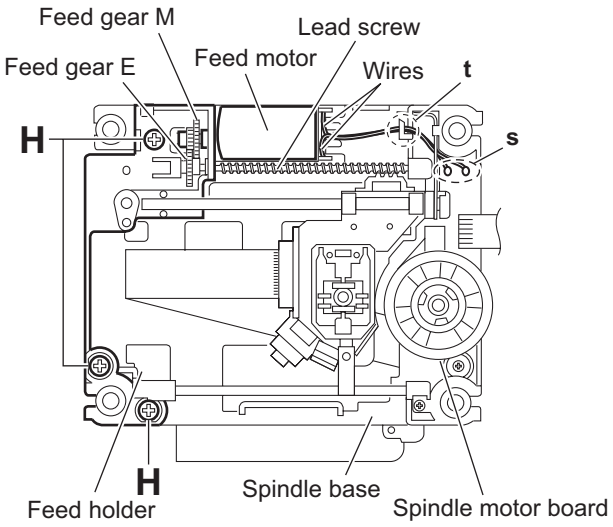


Fig.11

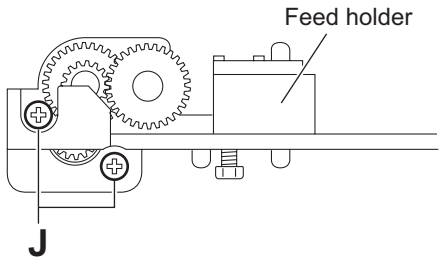


Fig.12

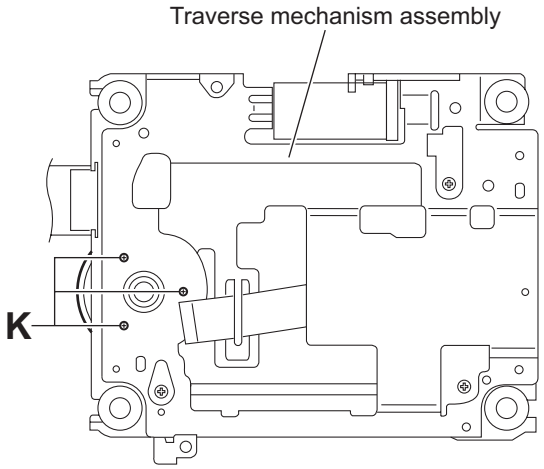


Fig.13

3.2.9 Removing the switch board (See Fig.14.)

(1) From the bottom side of the DVD mechanism assembly, remove the screw **L** attaching the switch board.
(2) Disconnect the card wire from the connector CN1 on the switch board.
(3) Remove the wires from the soldered section **u** on the switch board.
(4) Lift the switch board while pressing the claw v of the DVD mechanism assembly in the direction of the arrow and remove it from the section **w**.

Reference:

Put the wires on the section **x** after attaching the switch board to the DVD mechanism assembly.

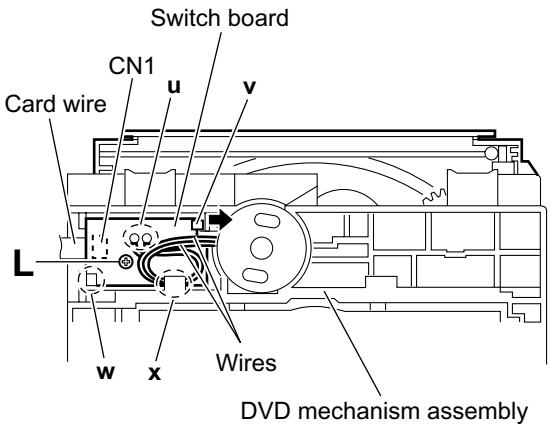


Fig.14

3.2.10 Removing the motor (See Figs.14 and 15)

• Remove the clamper base and tray assembly.

(1) From the bottom side of the DVD mechanism assembly, remove the wires from the soldered section **u** on the switch board. (See Fig.14.)
(2) From the top side of the DVD mechanism assembly, remove the belt from the motor pulley. (See Fig.15.)

Note:

Take care not to attach grease on the belt.

(3) Remove the two screws **M** attaching the motor to the DVD mechanism assembly and take out the motor from the bottom side of the DVD mechanism assembly. (See Fig.15.)

Reference:

Put the wires on the section **x** after attaching the motor to the DVD mechanism assembly. (See Fig.14.)

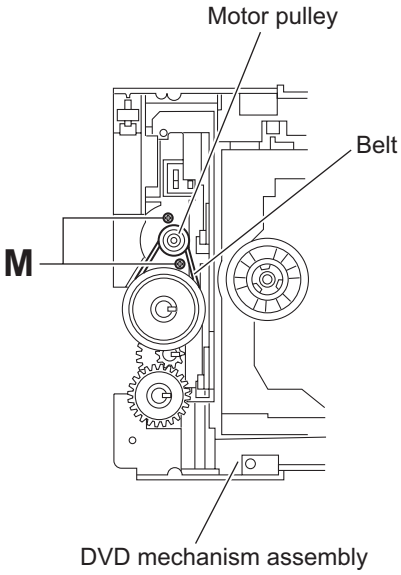


Fig.15

SECTION 4
ADJUSTMENT

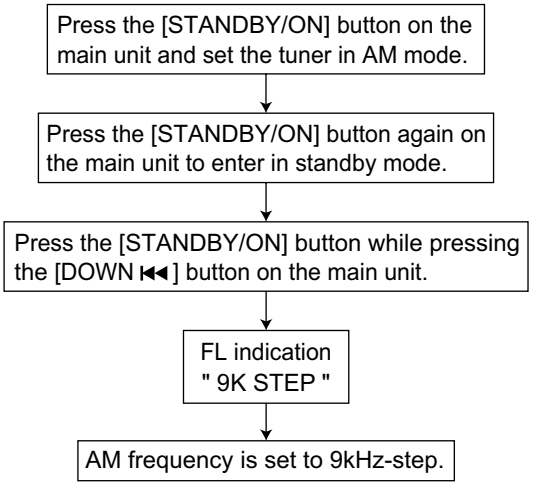
4.1 Service mode

4.1.1 Confirming contents

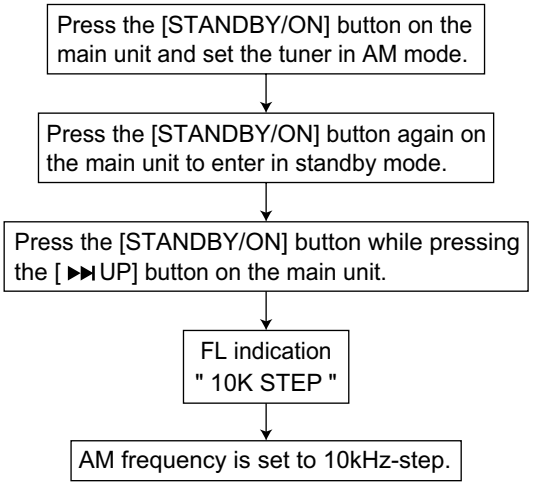
(1) Tuner AM switch to 9kHz-step
(2) Tuner AM switch to 10kHz-step
(3) Cold start
(4) Tray lock
(5) DVD test mode
(6) DVD initialize

4.1.2 Confirming methods

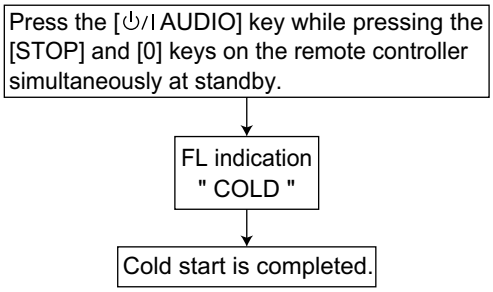
1. Tuner AM switch to 9kHz-step
AM frequency change to 9kHz at U & A-version.



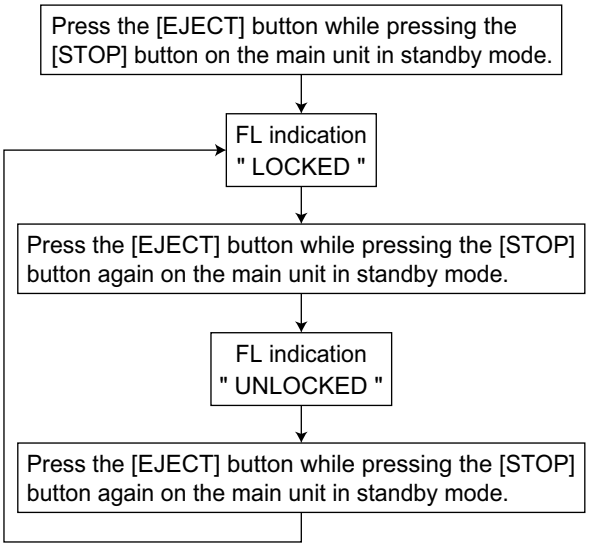
2. Tuner AM switch to 10kHz-step
AM frequency change to 10kHz at U & A-version.



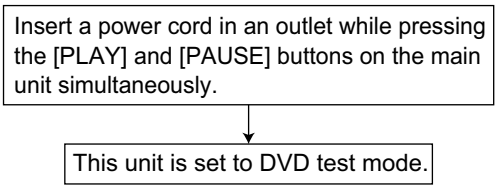
3. Cold start
Cold start processing.



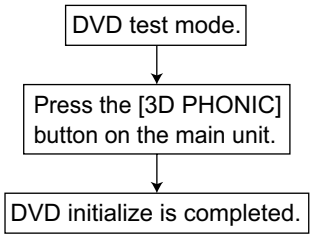
4. Tray lock
Loader-mecha is locked.
EJECT processing isn't done by pushing EJECT key at tray lock on state.
Then display to LOCKED / UNLOCKED.
EJECT is pushed, pushing STOP again, tray lock is off.
Back up to tray locked ON/OFF.



5. DVD test mode
In to the DVD test mode.
Test mode contents is refer to module specification.
DVD test mode is canceled by POWER OFF and except source DVD.



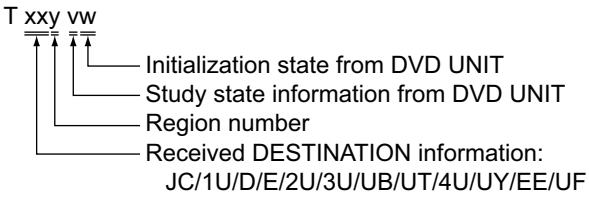
6. DVD initialize
DVD module initialized.
LCD segment is light on at initialize command.



∗ **The details refer to "4.1.3 DVD test mode".**

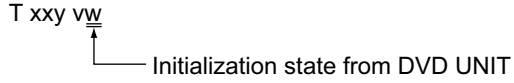
4.1.3 DVD test mode

1. To enter DVD TEST mode,
(1) AC POWER ON while holding PLAY+PAUSE keys.
(2) DVD Mecha will start in TEST MODE, FL will display:

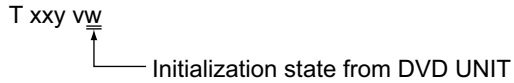


2. To exit DVD TEST mode,
- During TEST MODE (except for Device Key write & DVD Region Re-write), press POWER KEY.
- To exit TEST mode for Device Key Write & DVD Region Re-write, first AC OFF, then AC ON again to return to normal state.

3. EEPROM INITIALIZATION
3.1 NORMAL INITIALIZE
(1) During DVD TEST MODE, press STOP key on remote control to start NORMAL EEPROM INITIALIZATION.
(2) FL will display:



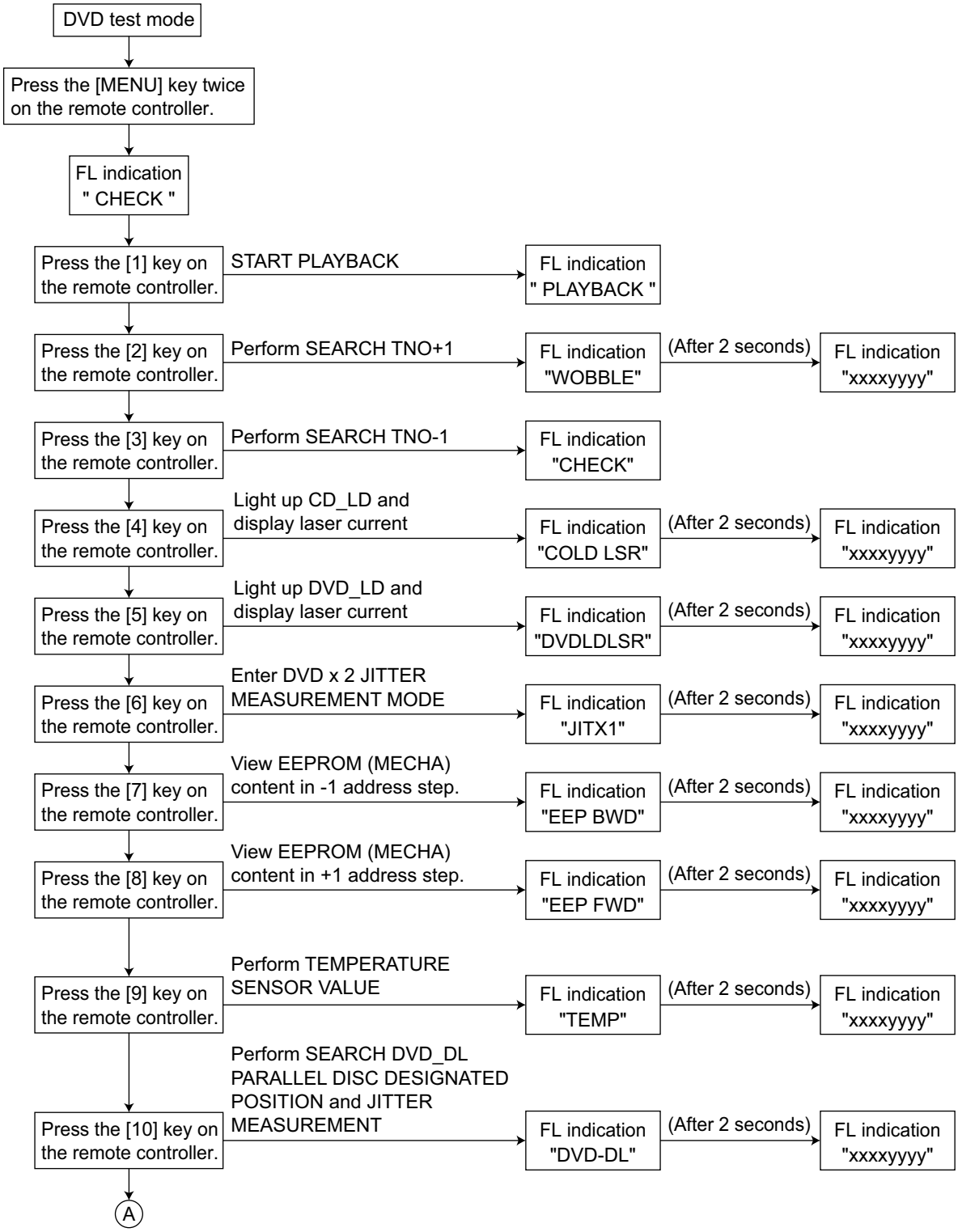
3.2 FULL INITIALIZE
(1) During DVD TEST MODE, press >>| key on set 2 seconds control to start FULL EEPROM INITIALIZATION.
(2) FL will display:

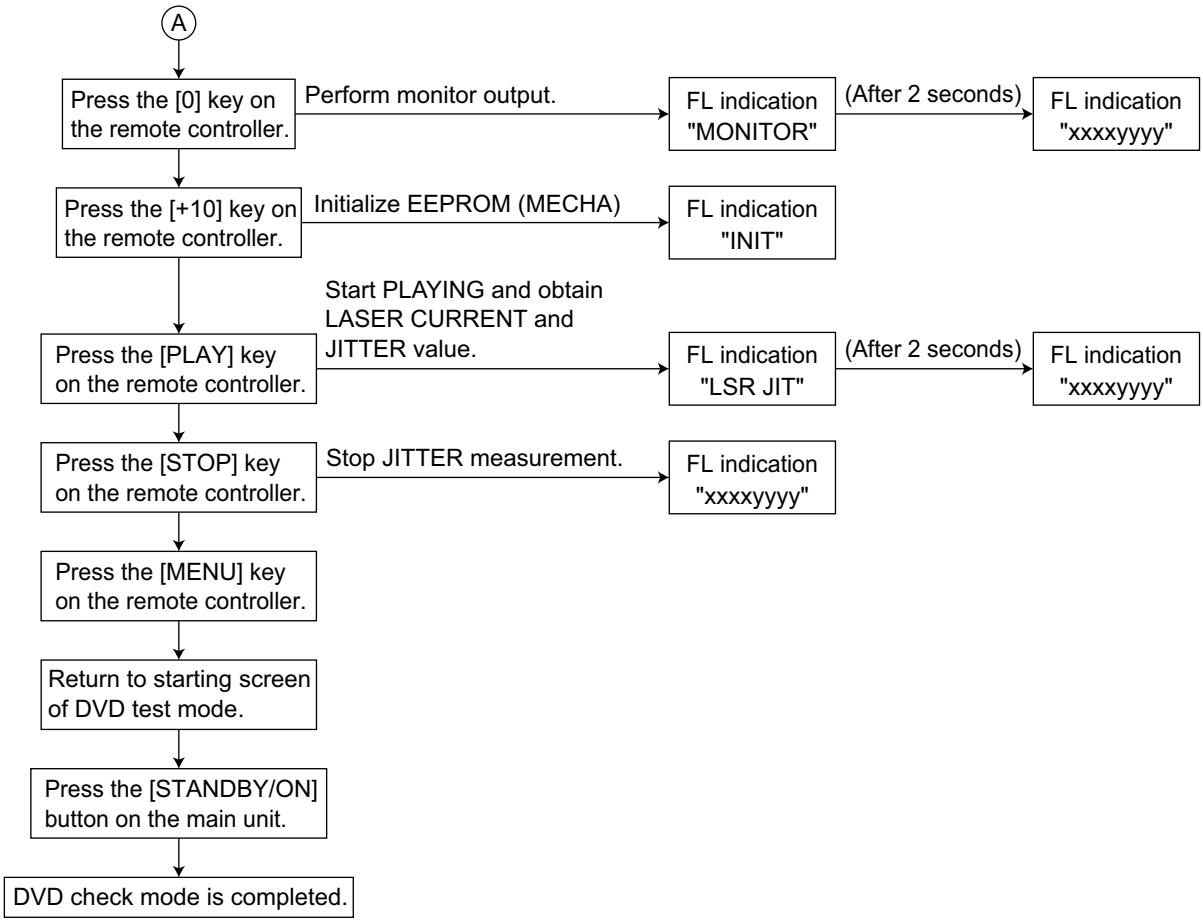


4. DEVICE KEY CHECKSUM DISPLAY
(1) During DESTINATION INFO display screen (1), press MENU key to enter DEVICE KEY CHECKSUM display.
(2) FL will display:

DKxxxx (Example) DK470B

5. DVD check mode




A
Press the [0] key on the remote controller.
Perform monitor output.
FL indication "MONITOR"
(After 2 seconds)
FL indication "xxxxyyyy"
Press the [+10] key on the remote controller.
Initialize EEPROM (MECHA)
FL indication "INIT"
Press the [PLAY] key on the remote controller.
Start PLAYING and obtain LASER CURRENT and JITTER value.
FL indication "LSR JIT"
(After 2 seconds)
FL indication "xxxxyyyy"
Press the [STOP] key on the remote controller.
Stop JITTER measurement.
FL indication "xxxxyyyy"
Press the [MENU] key on the remote controller.
Return to starting screen of DVD test mode.
Press the [STANDBY/ON] button on the main unit.
DVD check mode is completed.

4.2 Indicating check for FL display

4.2.1 FL display (DVD function)

No.	Function	FL display											Note
1	DVD				D		V		D				
2	OPEN DVD				O	P	E	N					Under tray OPEN operation, and OPEN state.
	Other source												The last source is displayed.
3	CLOSE DVD				C	L	O	S	E				Under tray CLOSE operation.
	Other source												The last source is displayed.
4	NO DISC DVD			N	O		D	I	S	C			At the time of DISC-less decision.
	Other source												The last source is displayed.
5	TOC READING			R	E	A	D	I	N	G			
6	POWER OFF			S	E	E		Y	O	U			Under POWER OFF processing. Other keys are not received while carrying out this processing.
7	ERROR DISC REGION CODE ERROR	R	E	G	I	O	N		0 E	: R	0 R	0 .	When DISC classification is 0x00 or 0x0C.
	TRAY LOCK			L	O	C	K	E	D				At the time of TRAY LOCK
	TRAY UNLOCK		U	N	L	O	C	K	E	D			At the time of TRAY LOCK release
8	DVD AUDIO STOP		D	V	D		A	U	D	I	O		
		G D	3 V	 D	 A		S G	T 3	O	P T		1	
	PLAY (TOP MENU/MENU)	D D	V V	D D	A A		M M	E E	N N	U U			
	PLAY	T D	0 V	1 D	 A	1	: G	2 1	3	: T	4 0	5 1	
	SEARCH	T D	0 V	1 D	 A	-	: G	- 1	-	: T	- 1	- -	
	+10 KEY INPUT	T D	1 V	- D	 A	1	: G	2 1	3	: T	4 1	5 -	
	GROUP +10 KEY INPUT	G D	1 V	- D	 A	1	:	2 -	3	: T	4	5 1	

No.	Function	FL display											Note
	REPEAT GROUP	display of Current condition											
	REPEAT TRACK	display of Current condition											
	PROGRAM (NO ENTRY)			P	R	O	G	R	A	M			
	PROGRAM (STOP)	P		2		G		2		T	1	5	
	PROGRAM (PLAY)	T	1	5		0	:	0	1	:	2	3	
	RANDOM (STOP)			R	A	N	D	O	M				
	RANDOM (SEARCH)	T	x	x		-	:	-	-	:	-	-	
	RANDOM (PLAY/PAUSE)	T		1		1	:	2	3	:	4	5	
	RESUME			R	E	S	U	M	E				
	DOWNMIX PROHIBITED		M	L U	R L	T	O I	N	L C	Y H			
	WATER MARK		N	O		A	U	D	I	O			
9	DVD VIDEO												
	STOP	T D	1 V	5 D		T	S 1	T 5	O	P C	-	-	UNDER FL DISPLAY MODE
	PLAY (TITLE/MENU)	D D	V V	D D		M M	E E	N N	U U				UNDER FL DISPLAY MODE
	PLAY	C D	1 V	3 D		1 T	: 1	2 2	3	: C	4 1	5 3	UNDER FL DISPLAY MODE
	PAUSE	C D	1 V	3 D		1 T	: 1	2 2	3	: C	4 1	5 3	UNDER FL DISPLAY MODE
	SEARCH	C D	V	2 D		- T	: 1	- 2	-	: C	- 1	- 4	UNDER FL DISPLAY MODE
	+10 KEY INPUT	C D	1 V	- D		1 T	: 1	2 2	3	: C	4 1	5 -	Blink display (ON : 0.5s / OFF : 0.5s) UNDER FL DISPLAY MODE
	TITLE+10 KEY INPUT	T D	1 V	- D		1 T	: 1	2 -	3	: C	4 1	5 3	Blink display (ON : 0.5s / OFF : 0.5s) UNDER FL DISPLAY MODE
	REPEAT TITLE	C		2		0	:	0	0	:	0	0	
	REPEAT CHAPTER	C		2		0	:	0	0	:	0	0	
	REPEAT A-B	C		2		0	:	0	0	:	0	0	
	PROGRAM (NO ENTRY)			P	R	O	G	R	A	M			
	PROGRAM (STOP)	P		1		T		1		C		1	
	PROGRAM (PLAY)	C		1		0	:	0	1	:	2	3	
	RANDOM (STOP)			R	A	N	D	O	M				
	RANDOM (SEARCH)	T	x	x		-	:	-	-	:	-	-	
	RANDOM (PLAY/PAUSE)	T	0	1		1	:	2	3	:	4	5	
	REGION CODE ERROR	R	E	G	I	O	N		E	R	R	.	
	RESUME			R	E	S	U	M	E				

No.	Function	FL display											Note
10	VCD (SVCD)												
	STOP	V	C	D	1	2		4	8	:	1	2	Total time is displayed. After 4 seconds EACH-displays.
	SELECT (PBC DISC)	V	C	D					P	B	C		
	PLAY (PBC DISC)	V	C	D		1			P	B	C		
	SEARCH (PBC DISC)	V	C	D		1			P	B	C		
	PLAY (NORMAL)	V	C	D		1			0	:	2	3	
	SEARCH (NORMAL)	V	C	D		1			-	:	-	-	
	+10 KEY INPUT	V	C	D	1	-			0	:	2	3	Blink display (ON : 0.5s / OFF : 0.5s)
	PROGRAM (NO ENTRY)			P	R	O	G	R	A	M			
	PROGRAM (STOP)	P		1					T			3	
	PROGRAM (PLAY)	V	C	D		3			1	:	2	3	
	RANDOM (STOP)			R	A	N	D	O	M				
	RANDOM (SEARCH)	V	C	D	x	x		-	-	:	-	-	
	RANDOM (PLAY/PAUSE)	V	C	D		1			0	:	2	3	
	REPEAT ALL	V	C	D		1			0	:	2	3	
	REPEAT 1	V	C	D		1			0	:	2	3	
	REPEAT A-B	V	C	D		1			0	:	2	3	
	RESUME			R	E	S	U	M	E				
11	CD												
	STOP	C	D	1	2			4	8	:	1	2	Total time is displayed. After 4 seconds EACH-displays.
	PLAY	C	D		1				0	:	2	3	
	SEARCH	C	D		1				-	:	-	-	
	+10 KEY INPUT	C	D	1	-				0	:	2	3	Blink display (ON : 0.5s / OFF : 0.5s)
	RANDOM (STOP)			R	A	N	D	O	M				
	RANDOM (SEARCH)	C	D	x	x			-	-	:	-	-	
	RANDOM (PLAY/PAUSE)	C	D		1				0	:	2	3	
	PROGRAM (NO ENTRY)			P	R	O	G	R	A	M			
	PROGRAM (STOP)	P		1					T			1	
	PROGRAM (PLAY)	C	D	1					1	:	2	3	
	REPEAT ALL	C	D	1					0	:	2	3	
	REPEAT 1	C	D	1					0	:	2	3	
	REPEAT A-B	C	D	1					0	:	2	3	

No.	Function	FL display											Note
12	MP3												The light is always switched on at the time of MP3.
	STOP	T	R			1			0	:	0	0	
		M	P	3		G	1	2	T	1	2	3	
	PLAY	T	R	1	2	3		2	3	:	4	5	
		M	P	3		G	1	2	T	1	2	3	UNDER FL DISPLAY MODE
	SEARCH	T	R	1	2	4		-	-	:	-	-	
	+10 KEY INPUT	T	R		1	-		2	3	:	4	5	Blink display (ON : 0.5s / OFF : 0.5s)
		M	P	3		G	1	2	T		1	-	UNDER FL DISPLAY MODE
	GROUP+10 KEY INPUT	G	1	-				2	3	:	4	5	Blink display (ON : 0.5s / OFF : 0.5s)
		M	P	3		G	1	-	T	1	2	3	UNDER FL DISPLAY MODE
	REPEAT ALL	T	R	1	2	3		2	3	:	4	5	
	REPEAT 1	T	R	1	2	3		2	3	:	4	5	
	PROGRAM (NO ENTRY)			P	R	O	G	R	A	M			
	PROGRAM (STOP)	P		1	G		1		T			1	
	PROGRAM (PLAY)	T	R			1			1	:	2	3	
	RANDOM (STOP)			R	A	N	D	O	M				
	RANDOM (SEARCH)	T	R	x	x	x		-	-	:	-	-	
	RANDOM (PLAY/PAUSE)	T	R			1			1	:	2	3	
	WMA												
	STOP	T	R			1			0	:	0	0	
		W	M	A		G	1	2	T	1	2	3	
	PLAY	T	R	1	2	3		2	3	:	4	5	
		W	M	A		G	1	2	T	1	2	3	
	SEARCH	T	R	1	2	3		-	-	:	-	-	
	+10 KEY INPUT	T	R		1	-		2	3	:	4	5	
		W	M	A		G	1	2	T		1	-	
	GROUP+10 KEY INPUT	G	1	-				2	3	:	4	5	
		W	M	A		G	1	-	T	1	2	3	
	REPEAT ALL	T	R	1	2	3		2	3	:	4	5	
	REPEAT 1	T	R	1	2	3		2	3	:	4	5	
	PROGRAM (NO ENTRY)			P	R	O	G	R	A	M			
	PROGRAM (STOP)	P		1	G		1		T			1	
	PROGRAM (PLAY)	T	R			1			1	:	2	3	
	RANDOM (STOP)			R	A	N	D	O	M				
	RANDOM (SEARCH)	T	R	x	x	x		-	-	:	-	-	
	RANDOM (PLAY/PAUSE)	T	R			1			1	:	2	3	

No.	Function	FL display											Note
	JPEG												
	Under a display	J	P	G		G	1	2	F	1	2	3	
	+10 KEY INPUT	J	P	G		G	1	2	F		1	-	Blink display (ON : 0.5s / OFF : 0.5s)
	GROUP+10 KEY INPUT	J	P	G		G	1	-	F	1	2	3	Blink display (ON : 0.5s / OFF : 0.5s)
	MPEG4												
	STOP	T	R			1			0	:	0	0	
		A	S	F		G	1	2	T	1	2	3	
	PLAY	T	R	1	2	3		2	3	:	4	5	
		A	S	F		G	1	2	T	1	2	3	UNDER FL DISPLAY MODE
	SEARCH	T	R	1	2	4		-	-	:	-	-	
	+10 KEY INPUT	T	R		1	-		2	3	:	4	5	
		A	S	F		G	1	2	T		1	-	Blink display (ON : 0.5s / OFF : 0.5s)
	GROUP+10 KEY INPUT	G	1	-				2	3	:	4	5	
		A	S	F		G	1	-	T	1	2	3	Blink display (ON : 0.5s / OFF : 0.5s)
	REPEAT ALL	T	R	1	2	3		2	3	:	4	5	
	REPEAT 1	T	R	1	2	3		2	3	:	4	5	
	PROGRAM (NO ENTRY)			P	R	O	G	R	A	M			
	PROGRAM (STOP)	P		1	G		1		T			1	
	PROGRAM (PLAY)	T	R			1			1	:	2	3	
	RANDOM (STOP)			R	A	N	D	O	M				
	RANDOM (SEARCH)	T	R	x	x	x		-	-	:	-	-	
	RANDOM (PLAY/PAUSE)	T	R			1			1	:	2	3	
Other	SCAN MODE												
			I	N	T	E	R	L	A	C	E		E,J,Ver.
		P	R	O	G	R	E	S	S	I	V	E	
					N	T	S	C					U Ver.
			N	T	S	C		P	R	O	G	.	
					P	A	L		P	R	O	G	.	
	UPGRADE			U	P	G	R	A	D	E			When DISC classification is 0x0F.

4.2.2 FL display (Except DVD)

No.	Function	FL display											Note
1	SOURCE DVD			R	D E	A	V ↓ D	I	D N	G			About fine contents, it is based on DVD specification. After displaying for 2 seconds, it shifts to the following displays.
	AUX				A		U		X				
	AM	1	0			A	↓ 5	M 3	1	k			After displaying for 2 seconds, it shifts to the following displays. It displays only at the time of a PRESET call.
	FM	1	0		1	F 0	↓ 3	M .	5	0	M		After displaying for 2 seconds, it shifts to the following displays. It displays only at the time of a PRESET call.
2	MUTING			M	U	T	I	N	G				At FADE MUTING After cancel, return to nomal display.
3	VOLUME UP/DOWN		V	O	L	U	M	E		2	0		It displays for 5 seconds. It returns to a normal display after 5 seconds.
4	SLEEP	S S	L L	E E	E E	P P	1	5 O	0 F	m F	i	n	It displays for 5 seconds. It returns to a normal display after 5 seconds.
5	DIMMER		D D A D	I I U I	M M T M	M M O M	E E	R R D R	I	M O	1 2 M F	F	AT PRESS DIMMER KEY(REMOCON), 5-SECOND INDICATE.
6	BASS	B B B	A A A	S S S	S S S				+ -		5 0 5		+5 ～ 0 ～ -5
7	TREBLE	T T T	R R R	E E E	B B B	L L L	E E E		+ -		5 0 5		+5 ～ 0 ～ -5
8	AM STEP		1	9 0	k k		S S	T T	E E	P P			It displays for 5 seconds. It returns to a normal display after 5 seconds.
9	RDS DISPLAY			N N N	O O O		P P R	S T T	Y				No PS information. No PTY information. No RT information.

No.	Function	FL display											Note
10	PTY SELECTION	S	E	L	E	C	T		P	T	Y		PRESS SHIFT+ON SCREEN (PTY SEARCH) SELECT and PTY will display alternatively for 500msec each. PRESS PTY SELECT+/- TO SELECT PTY CODE. THE SELECTED PTY CODE WILL BLINK (0.5sec ON/OFF).
					N	E	W	S					
		S	E	A	R	C	H		N	E	W	S	PRESS SHIFT+ON SCREEN (PTY SEARCH) to begin search. DISPLAY 'SEARCH' and PTY code each for 500msec.
		F	O	U	N	D			N	E	W	S	If the RDS station with the select PTY code is found. The found PTY code will blink for 8 seconds (0.5sec ON/OFF). Then, display shows the PRESET RDS station for 1 sec. Then display PS information.
		X	X	X	X			X	X		X	X	
			N	O	T		F	O	U	N	D		IF CANNOT FOUND, DISPLAY 'NOT FOUND' FOR 2 SEC. RETURN TO PREVOUS DISPLAY.
11	SUBWOOFER		S	U	B	W	O	O	F	E	R		It displays for 5 seconds. It returns to a normal display after 5 seconds.
						O	F	F					It displays for 5 seconds. It returns to a normal display after 5 seconds.
12	DVD LEVEL			N M	O I H	R D I	M D G	A L H	L E				AT PRESS DVD LEVEL KEY(REMOCON), 5-SECOND INDICATE.
13	AUTO STANDBY		A	.	S	T	A	N	D	B	Y		AT PRESS AUTO STANDBY KEY(REMOCON), 5-SECOND INDICATE.

SECTION 5
TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.

JVC
Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB433)

Printed in Japan
VPT

PARTS LIST

[EX-D5]

* All printed circuit boards and its assemblies are not available as service parts.

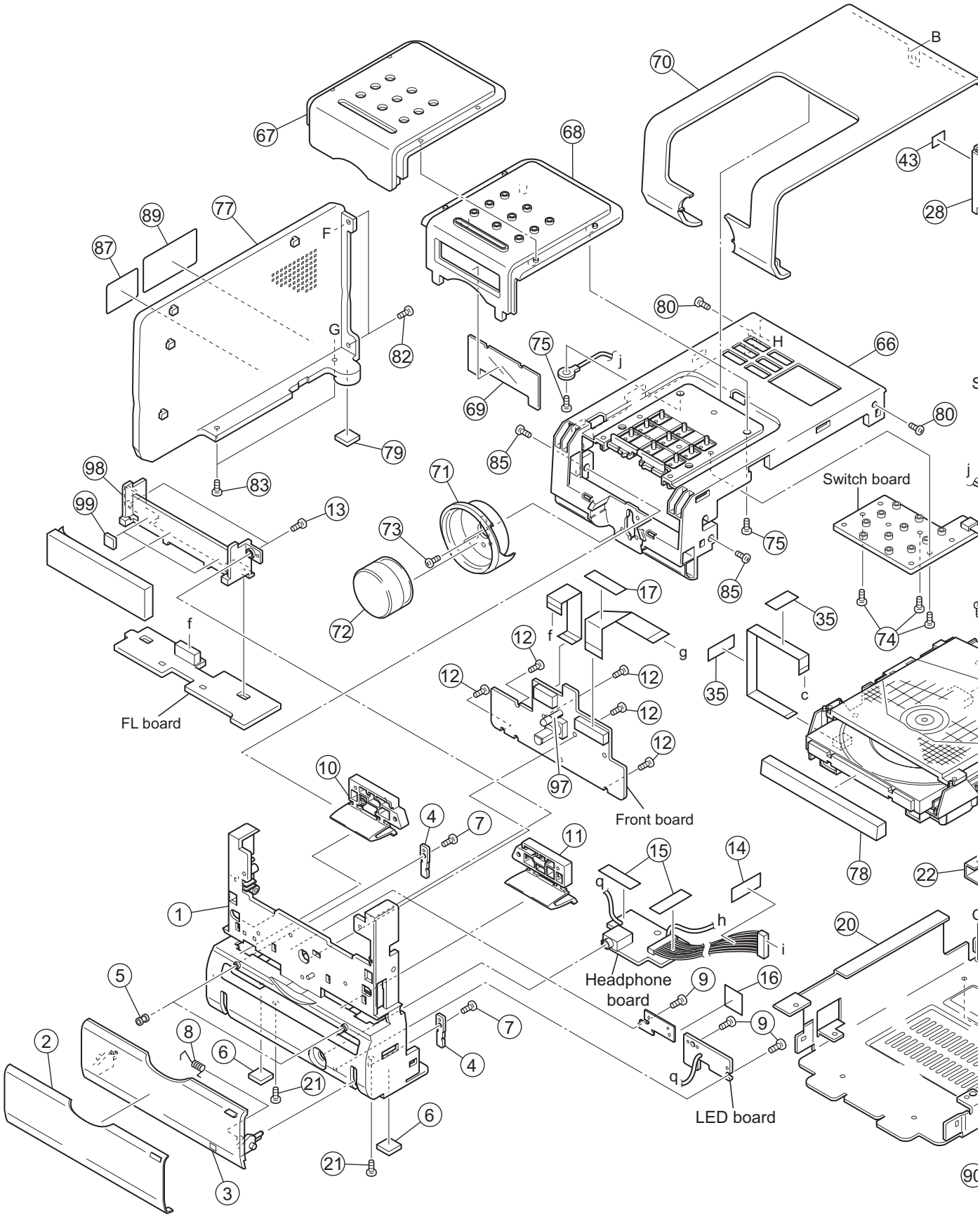
Area suffix

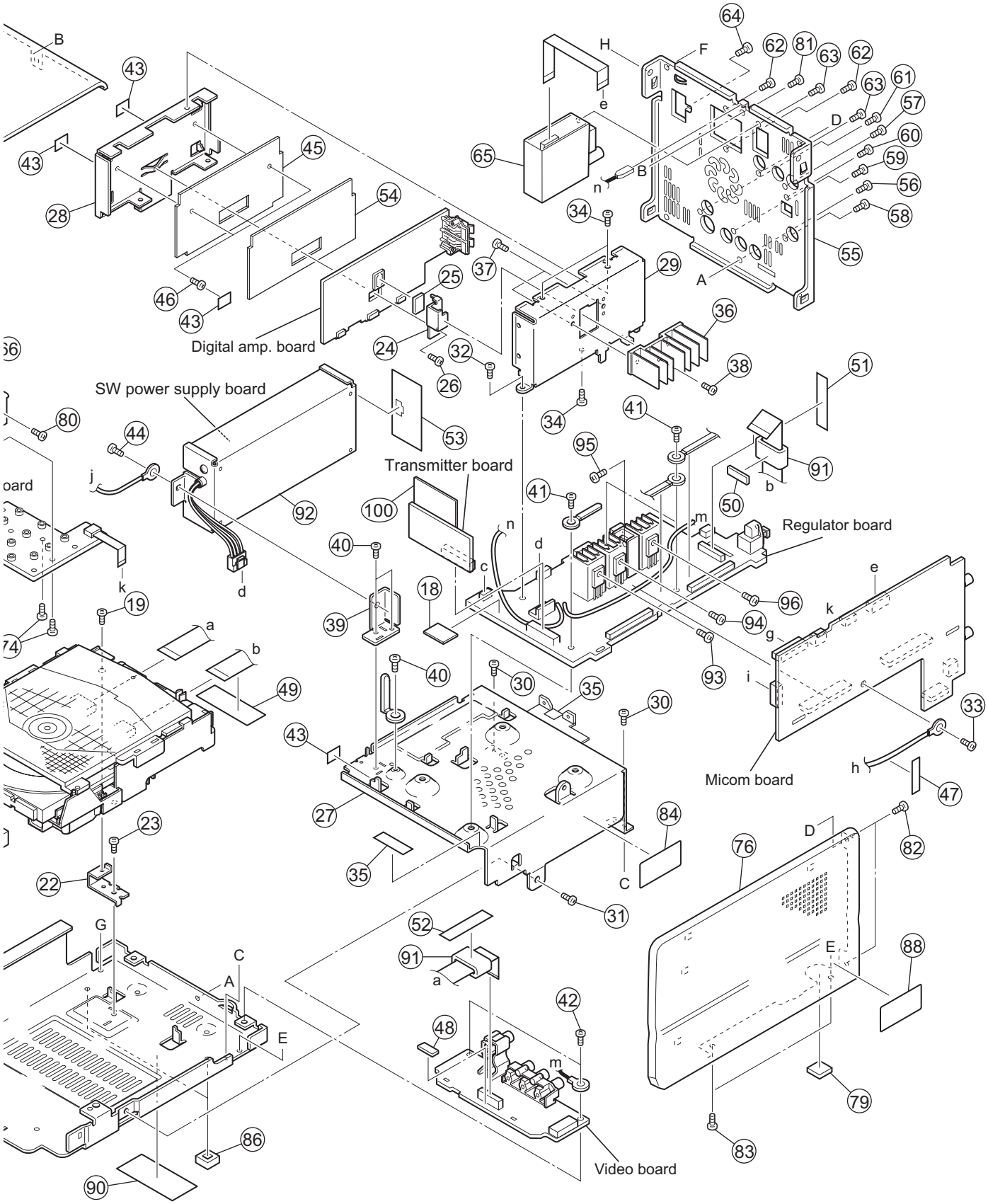
J ---------- U.S.A.
C ---------- Canada

- Contents -

Exploded view of general assembly and parts list

Block No. M 1 M M




Digital amp. board
SW power supply board
Transmitter board
Regulator board
Micom board
Video board

General Assembly

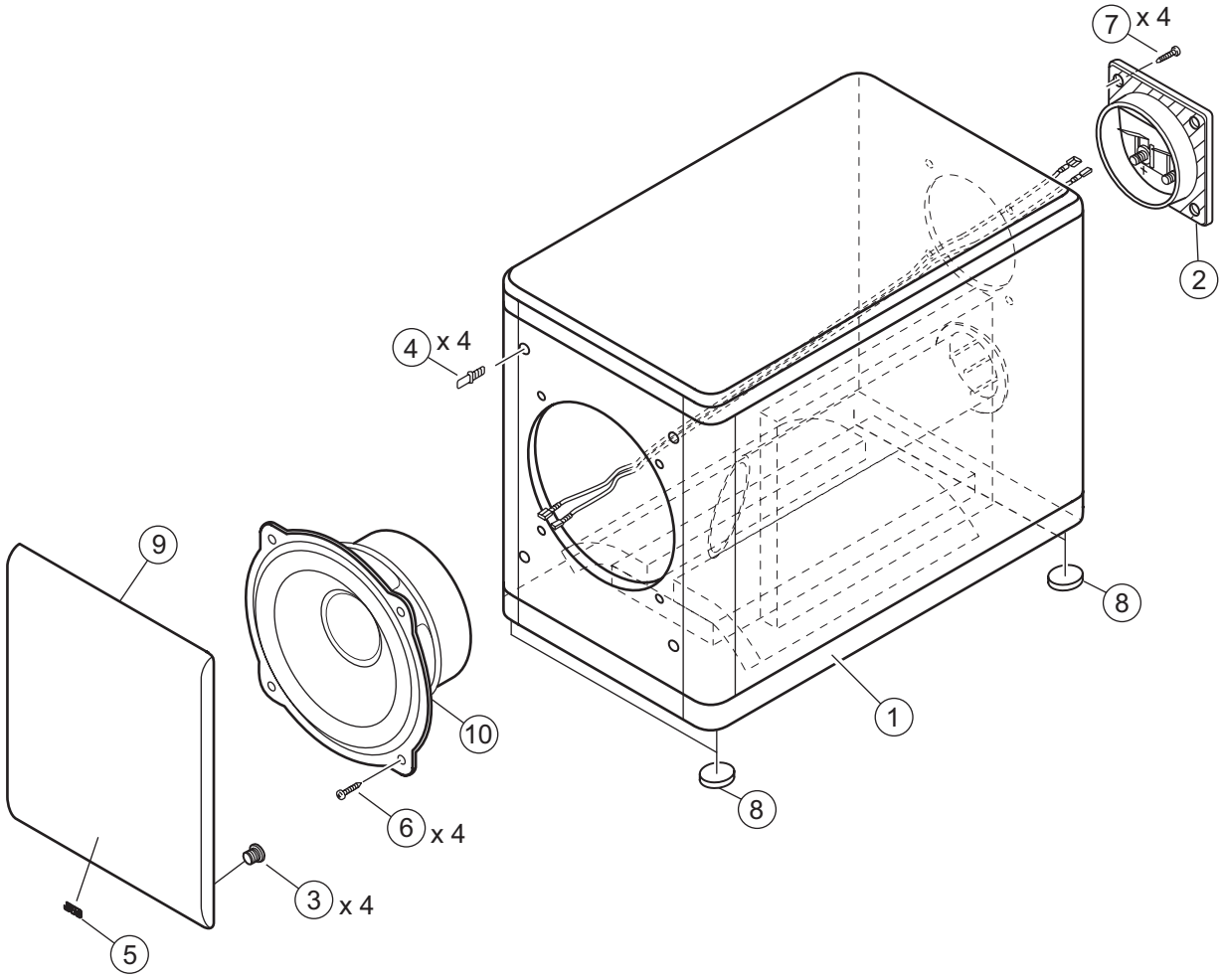
Block No. [M][1][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	GV30712-001A	FRONT PANEL ASSY		
	2	GV30679-002A	FR.ALUMI PLATE		
	3	GV20339-002A	CD DOOR		
	4	GV40594-001A	DOOR BRACKET	(x2)	
	5	E69897-002	CUSHION	(x2)	
	6	GV40313-002A	FELT SPACER	(x2)	
	7	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x2)	
	8	GV40576-001A	CD DOOR SPRING		
	9	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x3)	
	10	GV40615-001A	POWER BUTTON		
	11	GV30695-001A	EJECT BUTTON		
	12	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x5)	
	13	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x2)	
	14	GV30349-001A	SPACER		
	15	GV30349-010A	SPACER	(x2)	
	16	GV30349-052A	SPACER		
	17	GV30349-007A	SPACER		
	18	GV30349-058A	SPACER		
	19	QYSBSG3008EA	TAP SCREW	M3 x 8mm	
	20	GV10248-002A	BOTTOM CHASSIS		
	21	QYSSST3008ZA	TAP SCREW	M3 x 8mm(x2)	
	22	GV40573-001A	MECHA HOLDER		
	23	QYSBSGY3006EA	TAP SCREW	M3 x 6mm	
	24	GV40575-001A	HEAT SINK		
	25	GV40509-001A	THERMAL SHEET		
	26	QYSDST2606EA	TAP SCREW	M2.6 x 6mm	
	27	GV10249-002A	METAL CHASSIS		
	28	GV30682-003A	SHIELD CASE A		
	29	GV30683-002A	SHIELD CASE B		
	30	QYSBSGY3006EA	TAP SCREW	M3 x 6mm(x2)	
	31	QYSSST3008EA	TAP SCREW	M3 x 8mm	
	32	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	33	QYSBSTG3006EA	TAP SCREW	M3 x 6mm	
	34	QYSDST2606EA	TAP SCREW	M2.6 x 6mm(x3)	
	35	GV30349-001A	SPACER	(x4)	
	36	GV40616-001A	HEAT SINK		
	37	QYSDSG3008EA	TAP SCREW	M3 x 8mm(x2)	
	38	QYSDSG3008EA	TAP SCREW	M3 x 8mm	
	39	GV40624-002A	BRACKET		
	40	QYSBSGY3006EA	TAP SCREW	M3 x 6mm(x3)	
	41	QYSBSG3008EA	TAP SCREW	M3 x 8mm(x3)	
	42	QYSBSG3008EA	TAP SCREW	M3 x 8mm(x2)	
	43	GV30349-023A	SPACER	(x5)	
	44	QYSBSG3008EA	TAP SCREW	M3 x 8mm	
	45	GV40621-001A	COPPER PLATE		
	46	QYSDST2604EA	TAP SCREW	M2.6 x 4mm(x2)	
	47	GV30349-006A	SPACER		
	48	GV30349-037A	SPACER		
	49	GV30349-005A	SPACER		
	50	GV30349-049A	SPACER		
	51	GV30349-004A	SPACER		
	52	GV30349-004A	SPACER		
	53	GV40632-001A	SPACER		
	54	GV40654-001A	PROTECT SHEET		
	55	GV10250-031A	REAR PANEL		
	56	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	57	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	58	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	59	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	60	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	61	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	62	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
	63	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
	64	QYSBSG3008NA	TAP SCREW	M3 x 8mm	
	65	QAU0346-001	TUNER	TU 1	
	66	GV10243-001A	TOP PANEL		
	67	GV20338-003A	TOP LENS		
	68	GV10244-201A	BUTTON PANEL		
	69	GV40580-201A	FL FILTER		
	70	GV10247-001A	TOP ALUMI PLATE		
	71	GV30680-001A	VOLUME ORNAMENT		
	72	GV30690-005A	VOL KNOB ASSY		
	73	QYSBSF2610EA	TAP SCREW	M2.6 x 10mm(x2)	
	74	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x3)	

⚠	Symbol No.	Part No.	Part Name	Description	Local
	75	QYSDSF2606ZA	TAP SCREW	M2.6 x 6mm(x2)	
	76	GV10245-001A	SIDE PANEL L		
	77	GV10246-001A	SIDE PANEL R		
	78	GV30681-001A	CD FITTING		
	79	GV40313-002A	FELT SPACER	(x2)	
	80	QYSSST3008ZA	TAP SCREW	M3 x 8mm(x2)	
	81	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	82	QYSBSG3008EA	TAP SCREW	M3 x 8mm(x4)	
	83	QYSSST3008ZA	TAP SCREW	M3 x 8mm(x4)	
	84	LV42035-002A	LASER CAUTION		
	85	QYSSSF3008ZA	TAP SCREW	M3 x 8mm(x2)	
	86	GV40613-002A	SPACER	(x2)	
	87	GV40622-001A	DHHS LABEL		
	88	GV40623-001A	DOLBY LABEL		
	89	LV43835-001A	EMC LABEL		
	90	GV40526-001A	CAUTION LABEL		
	91	QQR1658-001	FERRITE CORE	(x2)	
	92	----------	SW P.SUPPLY MOD	QAL0693-001	
	93	QYSBSG3008ZA	TAP SCREW	M3 x 8mm	
	94	QYSBSG3008ZA	TAP SCREW	M3 x 8mm	
	95	QYSBSG3006ZA	TAP SCREW	M3 x 6mm	
	96	QYSBSG3008ZA	TAP SCREW	M3 x 8mm	
	97	GV40508-001A	LED HOLDER		
	98	GV30692-001A	FL HOLDER		
	99	GV30349-021A	SPACER	(x2)	
	100	QAL0718-001	LAN MODULE		

Speaker assembly and parts list

Block No. M 2 M M



The parts without symbol number are not service.

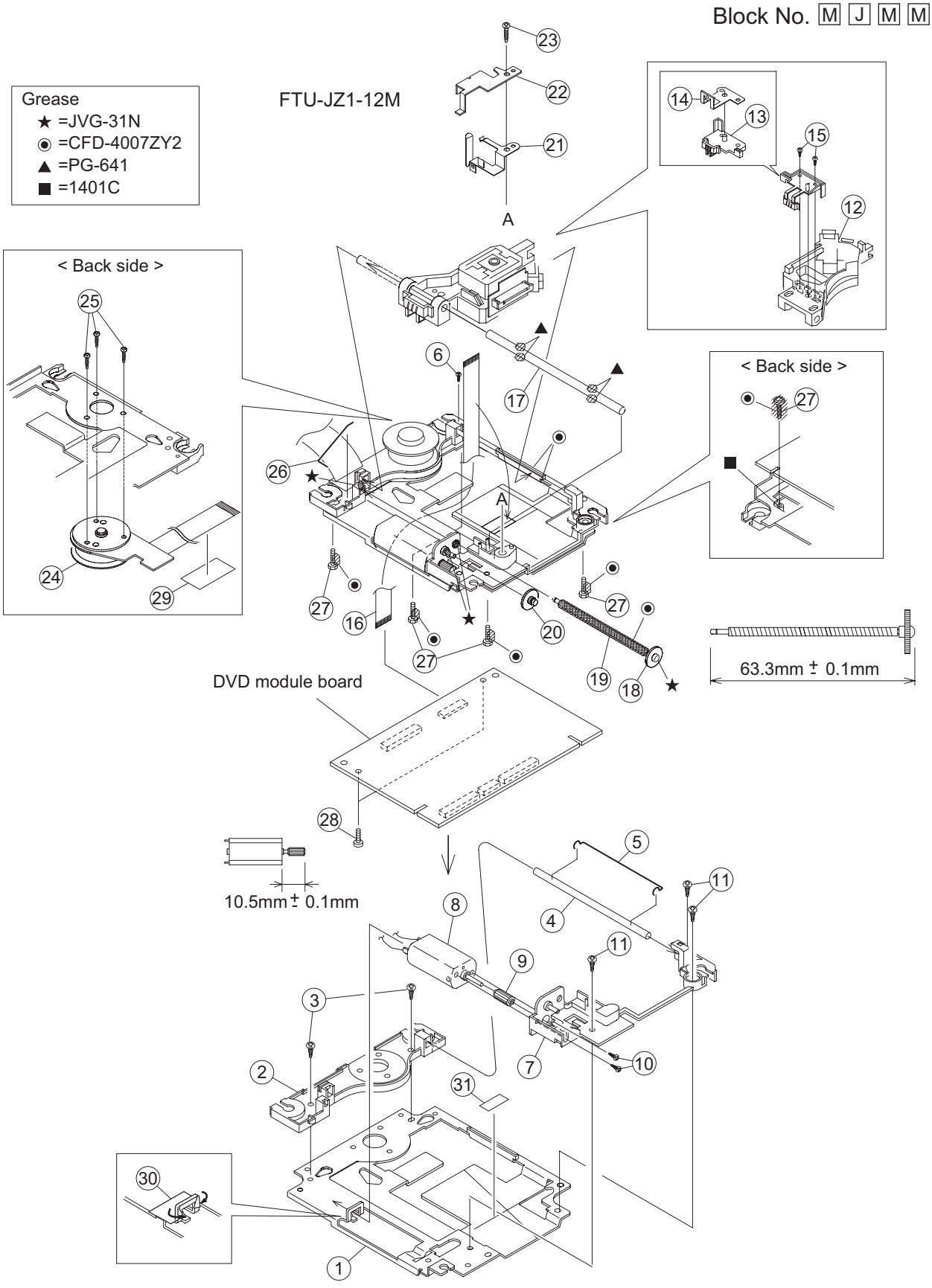
Speaker

Block No. [M][2][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	5100021501	CABINET ASSY	(x2)	
	2	1030004601	SPEAKER TERMINAL	(x2)	
	3	5600008001	HOLDER	(x8)	
	4	5800023731	LATCH	(x8)	
	5	E75939-222	JVC MARK	(x2)	
	6	7008142004	TAPPING SCREW	(x8)	
	7	7001841606	TAPPING SCREW	(x8)	
	8	9000005351	FOOT(FRONT/SURROUND)	(x8)	
	9	LV35832-001A	NET ASSY	(x2)	
	10	LE10008-031A	CONE SPEAKER	(x2)	

DVD mechanism assembly and parts list

Block No. M J M M



The parts without symbol number are not service.

DVD mechanism

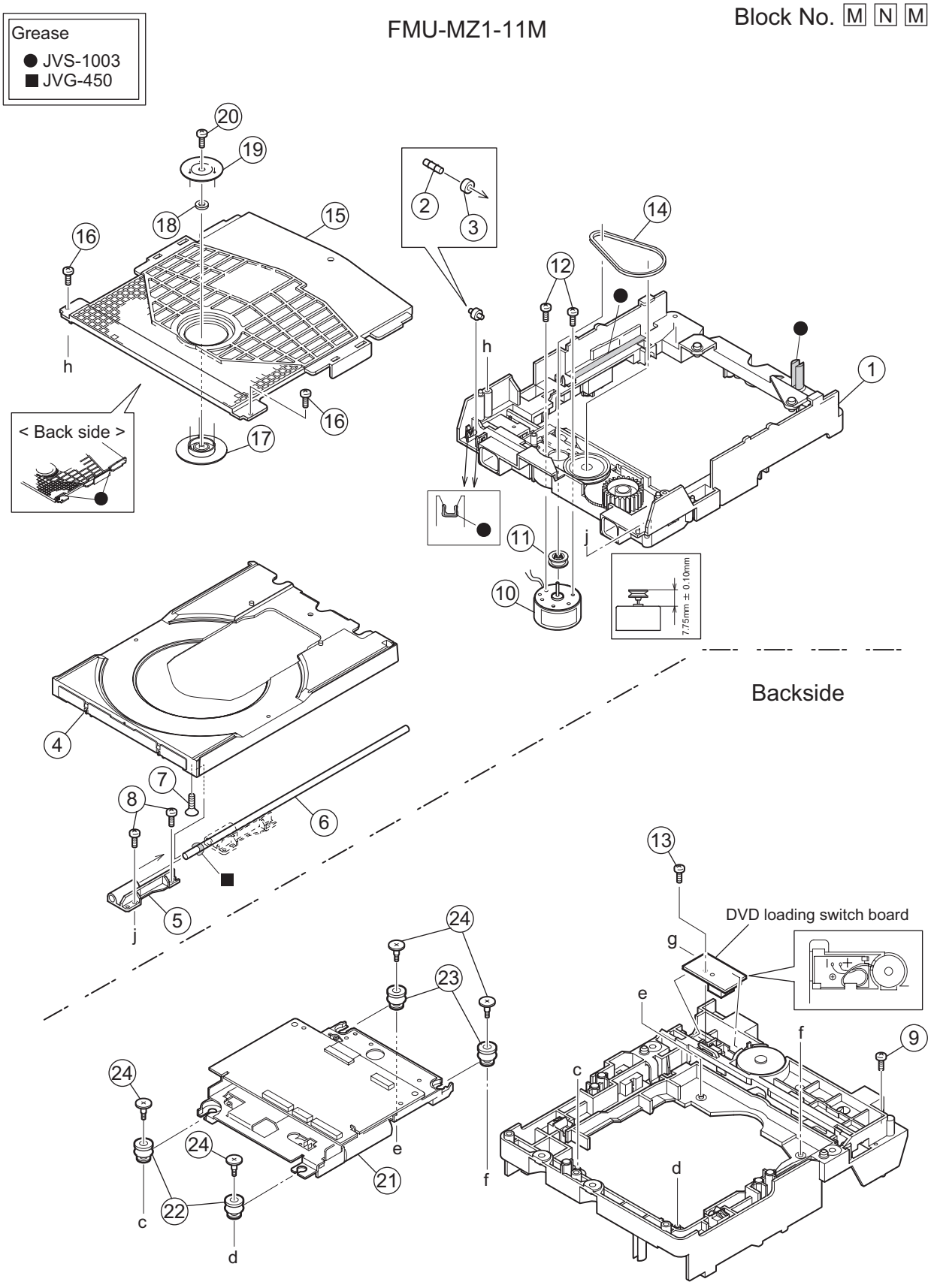
Block No. [M][J][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LV21814-001A	MECHA BASE		
	2	LE20731-002A	SPINDLE BASE		
	3	QYSDST2605MA	TAP SCREW	M2.6 x 5mm(x2)	
	4	LE40931-001A	SHAFT		
	5	LE40995-001A	BAR SPRING		
	6	QYSPSTU2080MA	TAP SCREW	M2 x 8mm	
	7	LE20730-002A	FEED HOLDER		
	8	QAR0165-001	FEED MOTOR		
	9	LV41510-201A	FEED GEAR T		
	10	QYSPSPU2040MA	SCREW	M2 x 4mm(x2)	
	11	QYSDST2605MA	TAP SCREW	M2.6 x 5mm(x3)	
	12	QAL0577-001	P.UP		
	13	LE20732-001A	SW ACTUATOR		
	14	LE31093-001A	LEAD SPRING		
	15	QYSPSFU1740ZA	TAP SCREW	M1.7 x 4mm(x2)	
	16	QUQ105-2412AC	FFC WIRE	24pin 12cm	
	17	LE40931-001A	SHAFT		
	18	LE40855-002A	FEED GEAR E		
	19	LV41517-003A	LEAD SCREW		
	20	LE40930-001A	FEED GEAR M		
	21	LE40928-002A	THURUST SPRING		
	22	LE40927-002A	PLATE		
	23	QYSDST2614ZA	TAP SCREW	M2.6 x 14mm	
	24	QAR0334-001	S.MOTOR		
	25	QYSPSPU1760ZA	SCREW	M1.7 x 6mm(x3)	
	26	LE40994-001A	T.SPRING		
	27	LE40858-002A	SPECIAL SCREW	(x4)	
	28	QYSDST2004ZA	TAP SCREW	M2 x 4mm(x2)	
	29	LV30225-0X6A	SPACER		
	30	LV30225-0X5A	SPACER		
	31	LV44007-001A	TAPE		

DVD loading base assembly and parts list

FMU-MZ1-11M

Block No. M N M M



The parts without symbol number are not service.

DVD loading base

Block No. [M][N][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LV11065-002A	LOADER SUB ASSY		
	2	E407140-001SS	C.D ROLLER		
	3	E407149-001SS	RUBBER TUBE		
	4	LV10979-002A	TRAY		
	5	LV35499-001A	SHAFT GUIDE		
	6	LV44022-001A	SHAFT		
	7	QYSSSF2008ZA	TAP SCREW	M2 x 8mm	
	8	QYSDSF2008ZA	TAP SCREW	M2 x 8mm(x2)	
	9	LV41741-004A	SPECIAL SCREW		
	10	QAR0197-001	MOTOR		
	11	LV43844-002A	MOTOR PULLEY		
	12	QYSPSPU1730ZA	SCREW	M1.7 x 3mm(x2)	
	13	QYSDSF2008ZA	TAP SCREW	M2 x 8mm	
	14	LV43974-001A	BELT		
	15	LV21852-003A	CLAMPER BASE		
	16	QYSDSF2008ZA	TAP SCREW	M2 x 8mm(x2)	
	17	LV35056-002A	DVD CLAMPER		
	18	LV42930-003A	P.C.MAGNET		
	19	LV43848-001A	YOKE		
	20	LE40906-002A	SPECIAL SCREW		
	21	----------	DVD TRAMECHA UN		
	22	LE40900-003A	INSULATOR	(x2)	
	23	LE40900-005A	INSULATOR	(x2)	
	24	LE40901-002A	SPECIAL SCREW	(x4)	

Electrical parts list

Main board

Block No. [0][1]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC111	NJM4580M-X	IC		
IC112	NJU7109F3-X	IC		
IC113	SN74AHC1G00V-X	IC		
IC121	NJM4580M-X	IC		
IC122	NJU7109F3-X	IC		
IC123	SN74AHC1G00V-X	IC		
IC131	NJM2115V-W	IC		
⚠ IC132	STA506A-W	IC		
⚠ IC200	KIA78R10API	IC		
⚠ IC202	PQ033ES3MX-T	IC		
IC235	LB1641	IC		
⚠ IC250	PQ1CG21H2FZ	IC	Regulator	
IC295	GP1FAV30TK0F	OPTICAL JACK		
IC301	SN74HCU04ANS-X	IC		
IC302	SN74LV00ANS-X	IC		
⚠ IC303	NJM78L05A-T	IC		
IC400	MN101C61GFM1	MASK ROM		
IC410	BR24L08F-W-X	IC(DIGITAL)		
IC500	LC75342M-X	IC		
IC510	RC4580ID-X	IC		
IC520	HA17558AF-X	IC		
IC701	BH7868FS-X	IC		
IC880	MM1565AF-X	IC		
Q1101	KRA109S-X	D.TRANSISTOR		
Q1102	KRA109S-X	D.TRANSISTOR		
Q1103	2SC3661-X	TRANSISTOR		
Q1104	UMY1N-W	TRANSISTOR		
Q1201	KRA109S-X	D.TRANSISTOR		
Q1202	KRA109S-X	D.TRANSISTOR		
Q1203	2SC3661-X	TRANSISTOR		
Q1204	UMY1N-W	TRANSISTOR		
Q2006	2SB709A/R/-X	TRANSISTOR		
Q2007	KTC3875/YG/-X	SI TRANSISTOR		
⚠ Q2015	KTC1027/OY/-T	TRANSISTOR		
⚠ Q2020	KTC2026/Y/	TRANSISTOR		
⚠ Q2040	KTC3203/OY/-T	TRANSISTOR		
Q2041	2SB709A/R/-X	TRANSISTOR		
Q2042	KRC102S-X	DIGI TRANSISTOR		
Q2043	KTB772/Y/	TRANSISTOR		
Q2050	KRC102S-X	DIGI TRANSISTOR		
⚠ Q2060	KTA1046/Y/	TRANSISTOR		
Q2061	KTC3875/YG/-X	SI TRANSISTOR		
Q2070	KRC102S-X	DIGI TRANSISTOR		
Q2071	KRC102S-X	DIGI TRANSISTOR		
Q3002	KTA1267/YG/-T	TRANSISTOR		
Q3003	KTC3875/YG/-X	SI TRANSISTOR		
Q3004	KTC3875/YG/-X	SI TRANSISTOR		
Q3005	KTC3875/YG/-X	SI TRANSISTOR		
Q3006	2SB709A/R/-X	TRANSISTOR		
Q3007	KRA103S-X	DIGI TRANSISTOR		
Q4201	KRA102S-X	DIGI TRANSISTOR		
Q4202	KRC107S-X	DIGI TRANSISTOR		
Q4600	2SA1037AK/RS/-X	TRANSISTOR		
Q4601	KRC111S-X	TRANSISTOR		
Q5371	KTC3875/YG/-X	SI TRANSISTOR		
Q5372	KTC3875/YG/-X	SI TRANSISTOR		
Q5373	KTC3875/YG/-X	SI TRANSISTOR		
⚠ Q5511	2SC2001/LK/-T	TRANSISTOR		
Q5810	2SD2114K/VW/-X	TRANSISTOR		
Q5811	2SD2114K/VW/-X	TRANSISTOR		
Q5812	KRA101S-X	D.TRANSISTOR		
Q5813	2SD2114K/VW/-X	TRANSISTOR		
Q5814	2SD2114K/VW/-X	TRANSISTOR		
Q5911	KTC3875/YG/-X	SI TRANSISTOR		
Q5912	KRA109S-X	D.TRANSISTOR		
Q5913	2SD2114K/VW/-X	TRANSISTOR		
Q8300	KRC102S-X	DIGI TRANSISTOR		
D1104	MA152WK-X	SI DIODE		
D1203	UDZS6.8B-X	Z DIODE		
D2006	MTZJ24B-T2	Z DIODE		

⚠ Symbol No.	Part No.	Part Name	Description	Local
D2010	MTZJ11C-T2	Z DIODE		
D2011	1N4003S-T5	SI DIODE		
D2015	MTZJ5.6A-T2	Z DIODE		
D2016	MTZJ5.6C-T2	Z DIODE		
D2020	MTZJ7.5B-T2	Z DIODE		
D2022	MTZJ7.5B-T2	Z DIODE		
D2025	MTZJ3.6B-T2	Z DIODE		
D2026	MTZJ3.6B-T2	Z DIODE		
D2035	MTZJ4.7C-T2	Z DIODE		
D2036	1N4003S-T5	SI DIODE		
D2037	1N4003S-T5	SI DIODE		
D2038	1N4003S-T5	SI DIODE		
D2043	MTZJ5.6B-T2	Z DIODE		
D2050	11DF2-FD	DIODE		
D2052	MTZJ6.2C-T2	Z DIODE		
D2060	1SS133-T2	SI DIODE		
D2061	MTZJ3.9B-T2	Z DIODE		
D2071	1SS133-T2	SI DIODE		
D2072	1SS133-T2	SI DIODE		
D2076	1SS133-T2	SI DIODE		
D3001	MA152WK-X	SI DIODE		
D3003	MA152WK-X	SI DIODE		
D4058	MTZJ2.4B-T2	Z DIODE		
D4201	MTZJ2.2A-T2	S.B.DIODE		
D4202	1SS133-T2	SI DIODE		
D5371	1SS133-T2	SI DIODE		
D5372	MTZJ5.1B-T2	Z DIODE		
D5501	MTZJ10B-T2	Z DIODE		
C1101	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C1102	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1103	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1104	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C1105	QTE1H06-475Z	E CAPACITOR	4.7uF 50V	
C1106	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C1107	NCB31HK-122X	C CAPACITOR	1200pF 50V K	
C1108	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C1109	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C1110	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C1111	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C1113	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1114	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C1115	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C1118	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1123	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C1124	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C1125	QFVF1HJ-684Z	MF CAPACITOR	0.68uF 50V J	
C1126	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1127	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1128	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1129	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1130	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1132	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C1133	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C1134	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C1137	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C1138	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C1140	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1141	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C1142	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C1143	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C1144	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C1181	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C1182	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C1184	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C1201	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C1202	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1203	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1204	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C1205	QTE1H06-475Z	E CAPACITOR	4.7uF 50V	
C1206	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C1207	NCB31HK-122X	C CAPACITOR	1200pF 50V K	
C1208	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C1209	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C1210	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C1211	NDC31HJ-220X	C CAPACITOR	22pF 50V J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C1213	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1214	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C1215	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C1218	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1222	QTE1C06-336Z	E CAPACITOR	33uF 16V	
C1223	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C1224	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C1225	QFVF1HJ-684Z	MF CAPACITOR	0.68uF 50V J	
C1226	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1227	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1228	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1229	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1230	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C1232	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C1233	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C1234	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C1237	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C1238	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C1240	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1241	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C1242	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C1243	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C1244	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C1281	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C1282	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C1284	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C1301	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C1302	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1303	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1304	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1305	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C1306	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
⚠ C1307	QTMN1EM-477Z	E CAPACITOR	470uF 25V M	
C1308	QTE1E06-226Z	E CAPACITOR	22uF 25V	
C1309	NFV41HJ-333X	MPPS CAPACITOR	0.033uF 50V J	
C1310	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1381	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2000	QTE1E28-476Z	E CAPACITOR	47uF 25V	
C2002	QFG32AJ-223Z	PP CAPACITOR	0.022uF 100V J	
C2003	QEZ0536-828	E CAPACITOR	8200uF	
C2004	QTE1E06-476Z	E CAPACITOR	47uF 25V	
C2006	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C2010	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C2011	QTE1E06-476Z	E CAPACITOR	47uF 25V	
C2012	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2015	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2016	QFLC1HJ-472Z	M CAPACITOR	4700pF 50V J	
C2017	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C2018	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C2020	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C2021	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2022	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2025	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2026	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C2027	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2035	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2036	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2037	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2040	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2041	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2042	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C2043	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C2050	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C2051	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2052	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C2060	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C2061	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2080	QTE1E06-476Z	E CAPACITOR	47uF 25V	
C2095	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C3002	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C3003	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C3004	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C3005	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C3006	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3007	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3008	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C3009	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C3010	NCS31HJ-470X	C CAPACITOR	47pF 50V J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C3011	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3012	QFVF1HJ-334Z	MF CAPACITOR	0.33uF 50V J	
C3013	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C3015	QER61HM-106Z	E CAPACITOR	10uF 50V M	
C3016	QER61HM-106Z	E CAPACITOR	10uF 50V M	
C3017	QER61HM-106Z	E CAPACITOR	10uF 50V M	
C3018	QER61HM-106Z	E CAPACITOR	10uF 50V M	
C3019	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C3020	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C3021	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C3022	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C3025	QER61HM-106Z	E CAPACITOR	10uF 50V M	
C3026	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3027	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3031	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C3034	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4109	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4110	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4111	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C4112	NCS31HJ-200X	C CAPACITOR	20pF 50V J	
C4113	NCS31HJ-200X	C CAPACITOR	20pF 50V J	
C4207	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M	
C4208	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C4210	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4600	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
C4707	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C4708	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5172	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C5173	QFZ0225-473Z	MYLAR CAPA	0.047uF	
C5174	QFZ0225-473Z	MYLAR CAPA	0.047uF	
C5175	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C5272	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C5273	QFZ0225-473Z	MYLAR CAPA	0.047uF	
C5274	QFZ0225-473Z	MYLAR CAPA	0.047uF	
C5275	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C5371	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C5372	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C5373	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C5374	QTE1C06-476Z	E CAPACITOR	47uF 16V	
C5401	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C5402	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C5403	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C5404	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C5405	QFZ0225-473Z	MYLAR CAPA	0.047uF	
C5406	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C5407	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C5408	QFG32AJ-272Z	PP CAPACITOR	2700pF 100V J	
C5409	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C5410	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C5501	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C5502	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C5503	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C5504	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C5505	QFZ0225-473Z	MYLAR CAPA	0.047uF	
C5506	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C5507	QTE1V06-106Z	E CAPACITOR	10uF 35V	
C5508	QFG32AJ-272Z	PP CAPACITOR	2700pF 100V J	
C5509	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C5510	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C5520	QTE1C06-476Z	E CAPACITOR	47uF 16V	
C5521	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5530	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C5531	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C5532	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C5602	QTE1C06-107Z	E CAPACITOR	100uF 16V	
C5603	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C5604	QTE1C06-226Z	E CAPACITOR	22uF 16V	
C5710	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C5711	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C5720	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C5721	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C5730	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C5802	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C5804	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C5810	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C5811	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C5812	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C5813	QETN1CM-107Z	E CAPACITOR	100uF 16V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C5814	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C5815	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C5816	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C5817	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C5818	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C5819	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C5820	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C5830	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C5912	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C5913	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5914	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5915	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C5916	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C5918	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C7005	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7006	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C7007	QETN1EM-226Z	E CAPACITOR	22uF 25V M	
C7008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7010	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C7011	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C7012	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C7013	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C7014	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C7015	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C7016	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C7017	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C7018	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C7019	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C7020	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C7021	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7022	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C7023	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C7024	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C7025	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C7028	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C7031	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C7032	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C8100	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C8101	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C8102	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C8103	QTE1C06-226Z	E CAPACITOR	22uF 16V	
C8105	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C8106	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C8107	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8108	NCB31HK-471X	C CAPACITOR	470pF 50V K	
R1101	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R1102	NRSA63J-113X	MG RESISTOR	11kΩ 1/16W J	
R1103	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R1104	NRSA63J-163X	MG RESISTOR	16kΩ 1/16W J	
R1105	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1106	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R1107	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1108	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R1110	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R1111	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R1112	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1113	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1115	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1116	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1117	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R1118	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1119	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1120	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1122	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1123	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1124	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
⚠ R1125	NRS016J-470X	MG RESISTOR	47Ω 1W J	
⚠ R1126	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1127	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1129	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1131	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1132	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1133	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1134	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R1135	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1136	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1137	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R1138	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1142	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R1143	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R1201	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R1202	NRSA63J-113X	MG RESISTOR	11kΩ 1/16W J	
R1203	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R1204	NRSA63J-163X	MG RESISTOR	16kΩ 1/16W J	
R1205	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1206	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R1207	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1208	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R1210	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R1211	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R1212	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1213	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1215	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1216	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1217	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R1218	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1219	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1220	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1222	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1223	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R1224	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
⚠ R1225	NRS016J-470X	MG RESISTOR	47Ω 1W J	
⚠ R1226	NRS016J-470X	MG RESISTOR	47Ω 1W J	
R1227	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1228	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R1229	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1231	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1232	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R1233	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1234	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R1235	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1236	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1237	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R1238	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R1242	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R1243	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R1301	NRSA63F-102X	MG RESISTOR	1kΩ 1/16W F	
R1302	NRSA63F-102X	MG RESISTOR	1kΩ 1/16W F	
R1303	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1304	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1308	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1309	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R1310	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R1311	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R2006	NRSA63J-363X	MG RESISTOR	36kΩ 1/16W J	
R2007	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R2008	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2009	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R2015	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2021	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2022	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
⚠ R2025	QRZ9006-4R7X	F.RESISTOR	4.7Ω 1/4W J	
R2036	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2037	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2040	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2041	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2042	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2045	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R2046	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R2047	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R2050	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2051	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R2052	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2060	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R2061	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2070	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2071	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2073	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2074	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2095	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3003	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R3004	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R3005	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R3006	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R3007	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R3008	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R3009	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
⚠ R3010	QRK126J-271X	UNF C RESISTOR	270Ω 1/2W J	
R3011	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3012	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3013	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3014	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3015	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R3016	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3017	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3018	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3019	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
⚠ R3020	QRJ146J-221X	UNF C RESISTOR	220Ω 1/4W J	
⚠ R3022	QRK126J-271X	UNF C RESISTOR	270Ω 1/2W J	
R3023	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3025	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3027	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3029	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R3031	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R3032	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R3033	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R3034	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R3035	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3036	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R3037	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4002	NRSA63J-362X	MG RESISTOR	3.6kΩ 1/16W J	
R4003	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4004	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4005	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4006	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4007	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4018	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4019	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4020	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4021	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4022	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4023	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4024	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4026	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4028	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4032	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4033	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4035	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4036	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4037	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4038	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4039	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4040	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4043	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4044	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4045	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4046	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4051	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4052	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4053	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4054	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4057	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4058	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4059	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4060	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4061	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4062	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4063	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4064	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4065	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4066	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4067	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4068	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4069	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4070	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4071	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4072	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4073	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4074	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4075	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4077	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4078	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4079	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R4080	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4102	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4103	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4104	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4105	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4106	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4107	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4148	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4152	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R4165	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4166	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4169	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4171	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4172	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4175	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4201	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4203	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4400	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4402	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4600	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R4601	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5100	QRE141J-331Y	C RESISTOR	330Ω 1/4W J	
R5171	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R5172	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R5173	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R5174	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R5175	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R5176	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R5177	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R5178	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R5179	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5271	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R5272	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R5273	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R5274	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R5275	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R5276	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R5277	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R5278	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R5279	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5371	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R5372	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R5373	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5374	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5375	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R5376	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R5377	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5378	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5392	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R5398	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R5402	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R5403	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R5404	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R5405	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R5406	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R5407	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R5501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R5503	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R5504	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R5505	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R5506	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R5507	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R5601	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R5610	QRE141J-471Y	C RESISTOR	470Ω 1/4W J	
R5710	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R5711	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R5720	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R5721	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R5810	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R5811	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R5812	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R5813	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R5814	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5815	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5817	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	
R5819	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R5820	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R5821	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R5822	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R5823	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5824	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R5825	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R5826	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5827	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R5828	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R5829	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R5830	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5831	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R5832	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5901	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R5902	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R5911	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5912	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R5913	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R5914	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R5915	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5916	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R5917	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R7006	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7007	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7008	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7009	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7010	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7011	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R7021	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R7022	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R7023	NRSA63J-361X	MG RESISTOR	360Ω 1/16W J	
R7024	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R7025	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R7026	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R7027	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R7028	NRSA63J-910X	MG RESISTOR	91Ω 1/16W J	
R7029	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R7030	NRSA63J-910X	MG RESISTOR	91Ω 1/16W J	
R8101	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R8200	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8203	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R8204	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8205	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R8206	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8210	NRSA63J-753X	MG RESISTOR	75kΩ 1/16W J	
R8211	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8212	NRSA63J-753X	MG RESISTOR	75kΩ 1/16W J	
R8213	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8218	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8219	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
L1101	QQLZ037-220	COIL	22uH	
L1102	QQLZ037-220	COIL	22uH	
L1201	QQLZ037-220	COIL	22uH	
L1202	QQLZ037-220	COIL	22uH	
L2000	QQLZ003-1R0	COIL	1uH	
L2050	QQL31AK-221Z	COIL	220uH K	
L2095	QQL231K-4R7Y	COIL	4.7uH K	
L4001	QQL244K-100Z	COIL	10uH K	
L7006	QQL25CK-221Z	COIL	220uH K	
CN200	QGA3901C1-04	CONNECTOR	W-B (1-4)	
CN201	QGB2024J1-20S	CONNECTOR	B-B (1-20)	
CN202	QGB2024J1-20S	CONNECTOR	B-B (1-20)	
CN203	QGB2510J1-10	CONNECTOR	B-B (1-10)	
CN208	QGF1036C1-19	CONNECTOR	FFC/FPC (1-19)	
CN210	QGF1036C1-05	CONNECTOR	FFC/FPC (1-5)	
CN300	QGB2024K1-04S	CONNECTOR	B-B (1-4)	
CN301	QGB2024K1-06S	CONNECTOR	B-B (1-6)	
CN302	QGB2024K1-04S	CONNECTOR	B-B (1-4)	
CN310	QGB2024J1-04S	CONNECTOR	B-B (1-4)	
CN311	QGB2024J1-06S	CONNECTOR	B-B (1-6)	
CN312	QGB2024J1-04S	CONNECTOR	B-B (1-4)	
CN421	QGF1205F1-11	CONNECTOR	FFC/FPC (1-11)	
CN423	QGB2024K1-20S	CONNECTOR	B-B (1-20)	
CN424	QGB2024K1-20S	CONNECTOR	B-B (1-20)	
CN425	QGB1214J1-12S	CONNECTOR	B-B (1-12)	
CN426	QGF1205C1-18	CONNECTOR	FFC/FPC (1-18)	
CN427	QGF1205F1-05	CONNECTOR	FFC/FPC (1-5)	
CN428	QGF1210G1-05	CONNECTOR	FFC/FPC (1-5)	
CN501	QGA2001C1-10	CONNECTOR	W-B (1-10)	
CN702	QGB1214K1-12S	CONNECTOR	B-B (1-12)	
CN703	QGF1036C1-17	CONNECTOR	FFC/FPC (1-17)	
CN800	QGG1201M1-24X	CONNECTOR	(1-24)	
CN801	QGG1201M1-24X	CONNECTOR	(1-24)	
CN802	QGB2510K1-10	CONNECTOR	B-B (1-10)	
CP250	ICP-N25-T	IC PROTECTOR	1.0A	
HS200	LV40057-002A	HEAT SINK		
HS202	LV40057-002A	HEAT SINK		
HS206	GV40520-002A	HEAT SINK		
HS250	GV40614-001A	HEAT SINK		
J701	QNN0624-001	PIN JACK		
J702	QNN0434-001	PIN JACK		
J3001	QNB0118-004	SPK TERMINAL		
J5000	QNN0420-001	SURROUND JACK		
J5001	QNN0284-001	PIN JACK		
K2080	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K2081	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K2082	QQR0621-001Z	FERRATE BEADS		
K2083	QQR0621-001Z	FERRATE BEADS		
K2084	QQR0621-001Z	FERRATE BEADS		
K2085	QQR0621-001Z	FERRATE BEADS		
K2086	QQR0621-001Z	FERRATE BEADS		
K2087	QQR0621-001Z	FERRATE BEADS		
K2088	QQR0621-001Z	FERRATE BEADS		
K2089	QQR0621-001Z	FERRATE BEADS		
K2090	QQR0621-001Z	FERRATE BEADS		
K2095	NQR0007-002X	FERRITE BEADS		
K3001	NQR0389-003X	FERRITE BEADS		
K3002	NQR0389-003X	FERRITE BEADS		
K3003	NQR0389-003X	FERRITE BEADS		
K3004	NQR0389-003X	FERRITE BEADS		
K3005	NQR0389-003X	FERRITE BEADS		
K4001	QQR0621-001Z	FERRATE BEADS		
PP1	QZW0112-001	WIRE CLAMP		
X3001	QAX0734-001	C RESONATOR	400.00kHz	
X3002	QAX0735-001	C RESONATOR	420.00kHz	
X4100	QAX0711-002Z	CRYSTAL	8.000000MHz	

FL board

Block No. [0][2]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC617	GP1UE281YK0F	IC		
Q6110	KTC3199/GL/-T	TRANSISTOR		
Q6111	KTC3199/GL/-T	TRANSISTOR		
Q6240	KRC102M-T	DIGI TRANSISTOR		
D6110	SPR-325MVW/L/-T	LED	GREEN-RED	
D6113	SELU1E54CM-S	LED		
D6114	1SS133-T2	SI DIODE		
D6115	1SS133-T2	SI DIODE		
D6240	SELU2E10C-P	LED		
C6113	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C6116	QER61CM-476Z	E CAPACITOR	47uF 16V M	
C6120	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C6121	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C6150	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C6151	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C6152	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C6153	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6154	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C6155	NCF21HZ-104X	C CAPACITOR	0.1uF 50V Z	
C6156	NCF21HZ-104X	C CAPACITOR	0.1uF 50V Z	
C6157	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C6158	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C6159	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C6160	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C6171	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C6172	QEKC0JM-107Z	E CAPACITOR	100uF 6.3V M	
C6200	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6201	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6202	NCB20JK-155X	C CAPACITOR	1.5uF 6.3V K	
C6203	NCB20JK-155X	C CAPACITOR	1.5uF 6.3V K	
C6204	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6240	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
R6001	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6002	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R6003	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R6004	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R6006	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6007	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R6008	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R6009	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R6010	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R6011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6012	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R6100	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R6101	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R6105	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R6110	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R6111	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R6113	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6116	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R6118	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R6150	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R6151	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R6170	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6200	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6240	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6242	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
CN600	QGF1205F1-05	CONNECTOR	FFC/FPC (1-5)	
CN605	QGF1210G1-11	CONNECTOR	FFC/FPC (1-11)	
CN610	QGF1205F1-18	CONNECTOR	FFC/FPC (1-18)	
CN615	QGF1205C1-11	CONNECTOR	FFC/FPC (1-11)	
FL615	QLF0153-001	FL TUBE		
FW620	QUM023-07Z4Z4-E	WIRE		
FW621	WJK0218-001A-E	SOCKET		
J620	QNS0173-001	JACK		
JS612	QSW1130-001	ROTARY ENCODER		
K6200	NQR0007-002X	FERRITE BEADS		
K6201	NQR0007-002X	FERRITE BEADS		
K6202	NQR0007-002X	FERRITE BEADS		
S6000	QSW1121-001Z	PUSH SW I.M		
S6001	QSW1121-001Z	PUSH SW I.M		
S6002	QSW1121-001Z	PUSH SW I.M		
S6003	QSW1121-001Z	PUSH SW I.M		
S6005	QSW1121-001Z	PUSH SW I.M		
S6006	QSW1121-001Z	PUSH SW I.M		
S6007	QSW1121-001Z	PUSH SW I.M		
S6008	QSW1121-001Z	PUSH SW I.M		
S6009	QSW1121-001Z	PUSH SW I.M		
S6011	QSW1121-001Z	PUSH SW I.M		
S6012	QSW1121-001Z	PUSH SW I.M		
S6100	QSW1121-001Z	PUSH SW I.M		
S6101	QSW1121-001Z	PUSH SW I.M		

SW power supply board

Block No. [0][3]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC1	TEA1533AT/N1	I.C(MONO-OTHER)		
IC2	KA431AZ	I.C(MONO-OTHER)		
L1	TLF24Y-030004A	COIL		
L2	SL8104R7K	COIL		
L3	SL8104R7K	COIL		
T1	MS-0147	TRANSFORMER		
F1	382T4.0A	FUSE		
INLET	NC-133LH1	AC INLET		
PHC1	PC123FY2	PHOTO COUPLER		

DVD module board

Block No. [0][4]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC201	LA6502-X	IC		
IC301	MN2DS0003AA-H	IC		
IC302	LM1117MP-ADJ-X	IC		
IC453	S-80827CNNB-G-W	IC		
IC505	K4S641632H-UC75	IC		
IC509	----------	IC		
IC701	AK4384VT-X	IC		
IC701	or AK4384ET-X	IC		
Q101	KTA1001/Y/-X	TRANSISTOR		
Q101	or 2SB1424/R/-W	TRANSISTOR		
Q102	2SC4617/R/-X	TRANSISTOR		
Q103	KTA1001/Y/-X	TRANSISTOR		
Q103	or 2SB1424/R/-W	TRANSISTOR		
Q104	2SC4617/R/-X	TRANSISTOR		
Q105	UN2119-X	TRANSISTOR		
Q105	or KRA116S-X	TRANSISTOR		
C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C102	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C104	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C105	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C106	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C107	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C108	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C111	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C204	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C205	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C206	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C208	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C211	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C212	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C217	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C251	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C253	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C255	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C256	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C257	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C258	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C259	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C260	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C261	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C262	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C264	NEAF0JM-227X	E CAPACITOR	220uF 6.3V M	
C265	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C266	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C267	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C301	NEAF0GM-227X	E CAPACITOR	220uF 4V M	
C302	NEAF0GM-476X	E CAPACITOR	47uF 4V M	
C303	NEAF0GM-476X	E CAPACITOR	47uF 4V M	
C304	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C305	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C306	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C307	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C308	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C309	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C310	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C311	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C312	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C313	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C314	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C315	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C316	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C317	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C318	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C319	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C320	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C321	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C322	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C323	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C324	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C325	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C326	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C327	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C330	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C331	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C332	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C333	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C334	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C335	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C337	NCB31CK-183X	C CAPACITOR	0.018uF 16V K	
C338	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C339	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C340	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C341	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C347	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C348	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C349	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C350	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C356	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C359	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C371	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C374	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C391	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C392	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C455	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C505	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C506	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C507	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C508	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C509	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C510	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C547	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C551	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C552	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C553	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C554	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C555	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C556	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C557	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C558	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C559	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C704	NEAF0JM-227X	E CAPACITOR	220uF 6.3V M	
C706	NEAF1CM-106X	E CAPACITOR	10uF 16V M	
C707	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C721	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C902	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C903	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C904	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C906	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R103	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R104	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R105	NRS125J-180X	MG RESISTOR	18Ω 1/2W J	
R106	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R107	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R108	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R109	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R110	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R111	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R112	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R113	NRS125J-270X	MG RESISTOR	27Ω 1/2W J	
R114	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R115	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R116	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R117	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R118	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R119	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R120	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R122	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R123	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R125	NRS125J-1R0X	MG RESISTOR	1Ω 1/2W J	
R126	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	
R128	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R204	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R205	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R206	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R207	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R208	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R213	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R215	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R219	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R220	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R221	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R251	NRS125J-R47X	MG RESISTOR	0.47Ω 1/2W J	
R252	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R254	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R255	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R257	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R259	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R302	NRSA63J-240X	MG RESISTOR	24Ω 1/16W J	
R303	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R306	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R307	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R308	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R309	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R310	NRS125J-R47X	MG RESISTOR	0.47Ω 1/2W J	
R312	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R313	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R314	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R315	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R316	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R317	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R318	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R319	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R320	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R322	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R325	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R326	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R333	NRSA63J-163X	MG RESISTOR	16kΩ 1/16W J	
R334	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R335	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R336	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R337	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R338	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R339	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R340	NRSA63D-303X	MG RESISTOR	30kΩ 1/16W D	
R341	NRSA63D-362X	MG RESISTOR	3.6kΩ 1/16W D	
R342	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R343	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R344	NRSA63J-6R8X	MG RESISTOR	6.8Ω 1/16W J	
R345	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R351	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R352	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R357	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R358	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R361	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R362	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R363	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R372	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R373	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R374	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R375	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R376	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R377	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R378	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R379	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R384	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R385	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R390	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R391	NAD0025-103X	N THERMISTOR	10kΩ	
R392	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R393	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R394	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R395	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R457	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R458	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R501	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R502	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R503	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R530	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R551	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R558	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R701	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R702	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R711	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R712	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R713	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R716	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R718	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R719	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R723	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R724	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R725	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R727	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R728	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R909	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R911	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
L501	NQL044K-100X	COIL	0.26Ω 10uH K	
CN101	QGF0523F1-24W	CONNECTOR	FFC/FPC (1-24)	
CN201	QGF1016F2-08W	CONNECTOR	FFC/FPC (1-8)	
CN501	QGF1016F2-19W	CONNECTOR	FFC/FPC (1-19)	
CN502	QGF1016F2-08W	CONNECTOR	FFC/FPC (1-8)	
CN503	QGF1016F2-17W	CONNECTOR	FFC/FPC (1-17)	
K101	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K102	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K251	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K252	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
K301	NQR0354-001X	FERRITE BEADS		
K302	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
K303	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
K304	NQR0502-001X	FERRITE BEADS		
K501	NQR0129-002X	FERRITE BEADS		
K551	NQR0129-002X	FERRITE BEADS		
K552	NQR0129-002X	FERRITE BEADS		
K553	NQR0129-002X	FERRITE BEADS		
K554	NQR0129-002X	FERRITE BEADS		
K555	NQR0022-005X	FERRITE BEADS		
K556	NQR0129-002X	FERRITE BEADS		
K563	NQR0129-002X	FERRITE BEADS		
K564	NQR0129-002X	FERRITE BEADS		
K565	NQR0129-002X	FERRITE BEADS		
K566	NQR0129-002X	FERRITE BEADS		
K567	NQR0129-002X	FERRITE BEADS		
K710	NQR0129-002X	FERRITE BEADS		
K721	NQR0251-004X	FERRITE BEADS		
K722	NQR0251-004X	FERRITE BEADS		
K723	NQR0251-004X	FERRITE BEADS		
X351	NAX0550-001X	CRYSTAL	27.000MHz	

DVD loading switch board

Block No. [0][5]

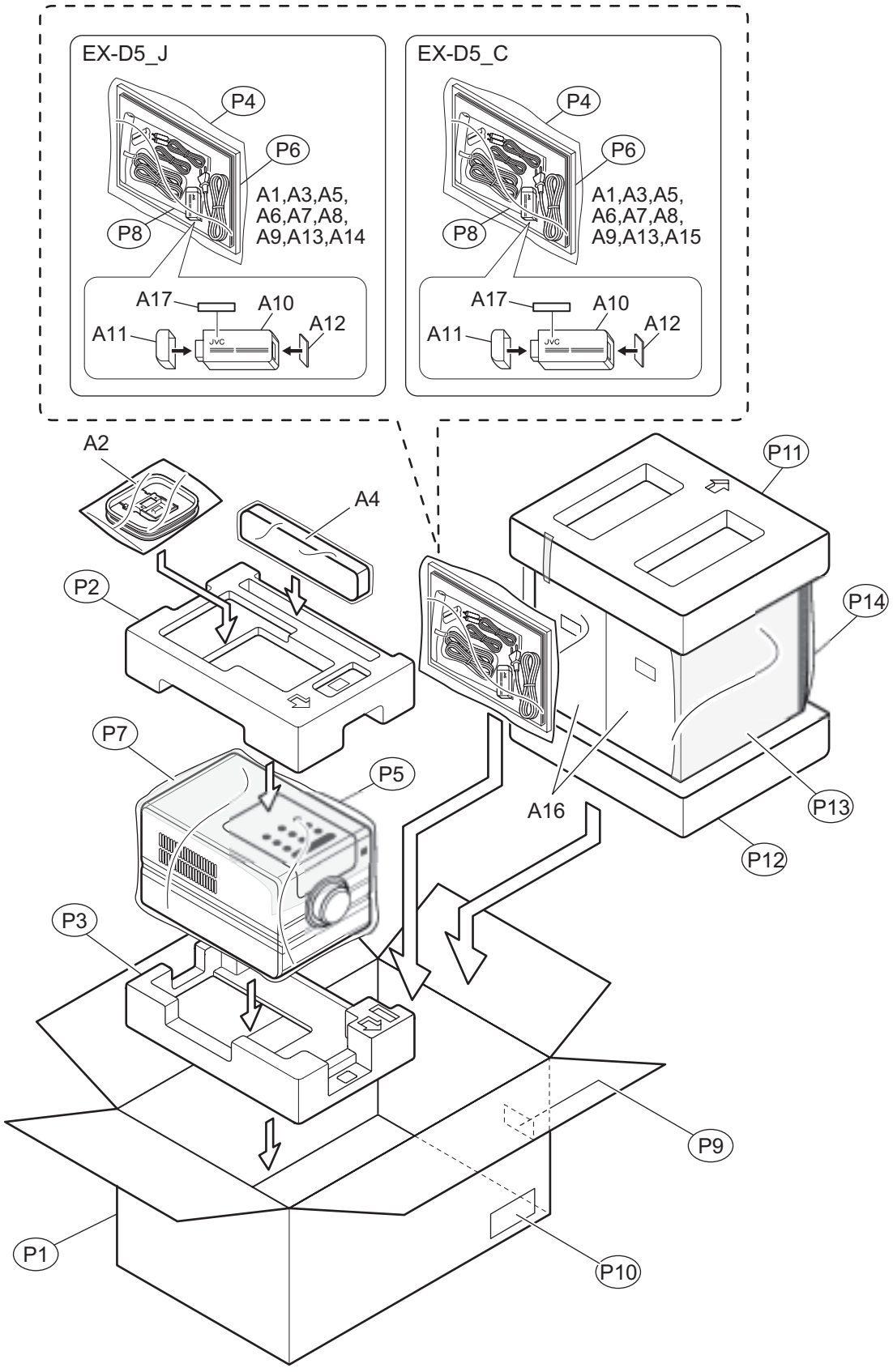
⚠ Symbol No.	Part No.	Part Name	Description	Local
CN1	QGF1016F3-05	CONNECTOR	FFC/FPC (1-5)	
S1	QSW1074-001	DETECT SWITCH		

<MEMO>

Packing materials and accessories parts list

Block No. M 3 M M

No additional / supplemental order of WARRANTY CARDs are available



Packing and Accessories

Block No. [M][3][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	A 1	GVT0144-002A	INST BOOK	ENG FRE	C
	A 1	GVT0144-001A	INST BOOK	ENG	J
	A 2	QAL0014-002	AM LOOP ANT		
	A 3	QAL0457-001	ANT.WIRE		
	A 4	RM-SEEXD5A	REMOCON UNIT		
	A 5	----------	BATTERY	(x2)	
	A 6	YU20333	SAFETY INST.		
⚠	A 7	QMPE180-183-JN	POWER CORD(US/CA)	1.83m BLACK	
	A 8	QAM0530-001	SPEAKER CORD		
	A 9	QAM0216-001	SIGNAL CORD		
	A 10	QAL0708-001	LAN MODULE		
	A 11	QZW0166-001	COVER		
	A 12	QZW0165-001	COVER		
	A 13	QAM0733-001	USB CABLE		
	A 14	BT-51034-2	REGISTRATION CARD		J
	A 15	----------	WARRANTY CARD	BT-52006-2	C
	A 16	AB080075-01	SPK WITH BOX	(x2)	
	A 17	LV35302-001A	SERIAL LABEL		
	P 1	GV20358-007A	CARTON ASSY		
	P 2	GV10251-001A	CUSHION TOP		
	P 3	GV10252-001A	CUSHION BOTTOM		
	P 4	QPC02503515P	POLY BAG	25cm x 35cm	
	P 5	QPC04504515P	POLY BAG	45cm x 45cm	
	P 6	GV40237-009A	CARTON SPACER		
	P 7	GV40437-004A	CLOTH		
	P 8	QPC01401830	POLY BAG	14cm x 18cm	
	P 9	CL0020-001	COMPUTER LABEL		
	P 10	LE40796-001A	VERANCE LABEL		
	P 11	LV21976-001A	TOP CUSHION		
	P 12	LV21976-002A	BOTTOM CUSHION		
	P 13	8500048041	MIRROR MAT	(x2)	
	P 14	8500051931	POLY BAG	(x2)	

JVC

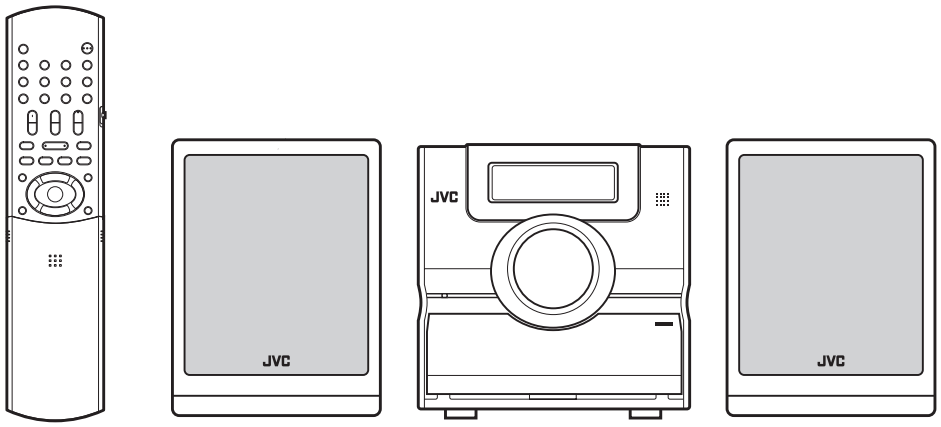
SCHEMATIC DIAGRAMS

COMPACT COMPONENT SYSTEM

EX-D5

CD-ROM No.SML200507

Area suffix	
J	U.S.A.
C	Canada



(SP-EXD1) (CA-EXD5) (SP-EXD1)

WOOD CONE DVD AUDIO/VIDEO DOLBY DIGITAL dts 2.0+DIGITAL OUT COMPACT disc SUPER VIDEO

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

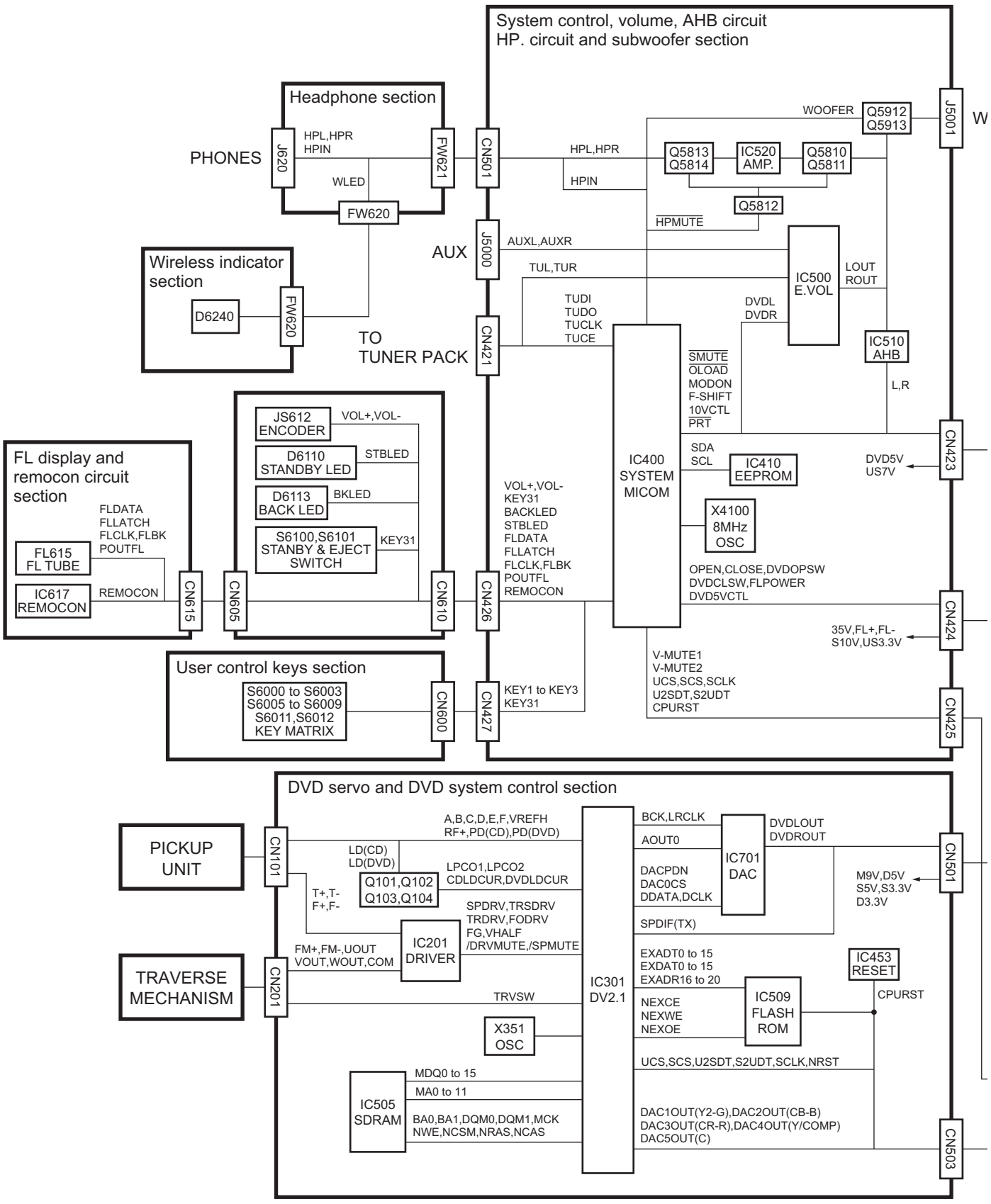
Contents

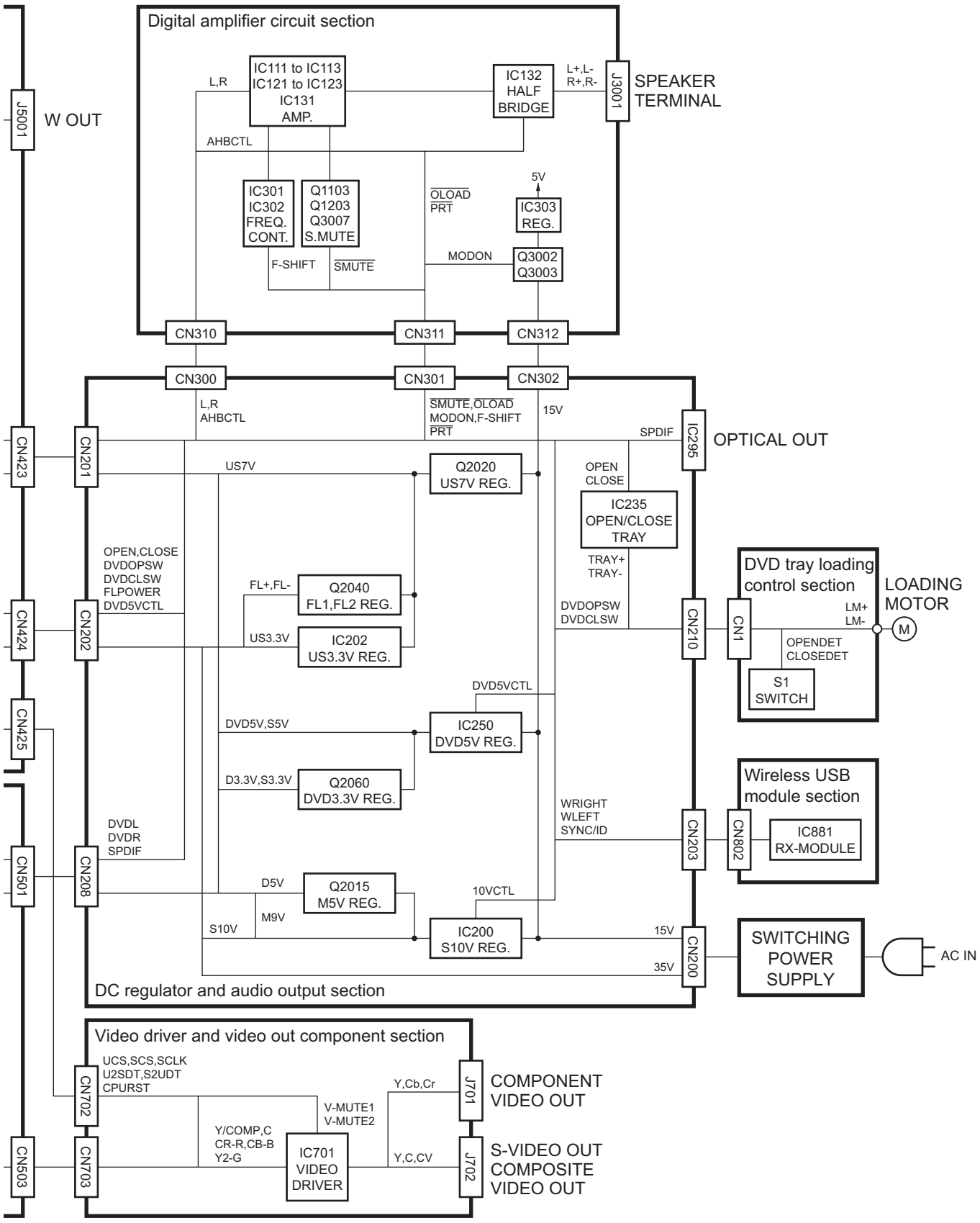
No.MB433SCH
2005/7

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▬) and ICP (⬤) or identified by the "⚠" mark nearby are critical for safety.

< MEMO >

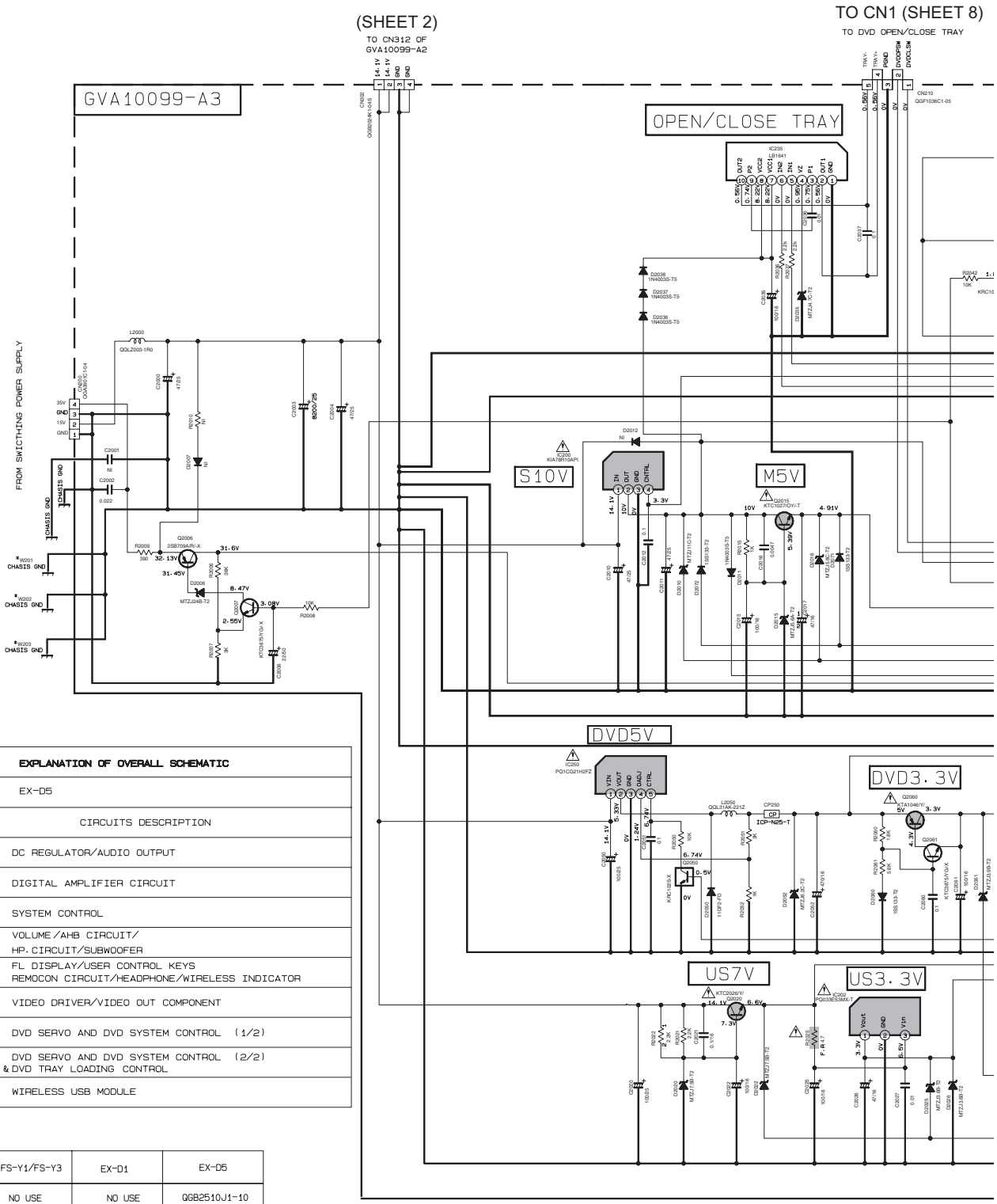
Block diagram




Digital amplifier circuit section
J5001
W OUT
L,R
IC111 to IC113
IC121 to IC123
IC131
AMP.
IC132
HALF
BRIDGE
L+,L-
R+,R-
J3001
SPEAKER
TERMINAL
AHBCTL
IC301
IC302
FREQ.
CONT.
Q1103
Q1203
Q3007
S.MUTE
OLOAD
PRT
5V
IC303
REG.
MODON
Q3002
Q3003
F-SHIFT
SMUTE
CN310
CN311
CN312
CN300
CN301
CN302
L,R
AHBCTL
SMUTE,OLOAD
MODON,F-SHIFT
PRT
15V
SPDIF
IC295
OPTICAL OUT
CN423
CN201
US7V
Q2020
US7V REG.
OPEN
CLOSE
IC235
OPEN/CLOSE
TRAY
OPEN,CLOSE
DVDOPSW
DVDCLSW
FLPOWER
DVD5VCTL
TRAY+
TRAY-
DVD tray loading
control section
LOADING
MOTOR
FL+,FL-
Q2040
FL1,FL2 REG.
DVDOPSW
DVDCLSW
LM+
LM-
M
CN424
CN202
US3.3V
IC202
US3.3V REG.
CN210
CN1
OPENDET
CLOSEDET
S1
SWITCH
DVD5VCTL
CN425
DVD5V,S5V
IC250
DVD5V REG.
D3.3V,S3.3V
Q2060
DVD3.3V REG.
Wireless USB
module section
WRIGHT
WLEFT
SYNC/ID
DVDL
DVDR
SPDIF
CN203
CN802
IC881
RX-MODULE
CN501
CN208
D5V
Q2015
M5V REG.
10VCTL
M9V
S10V
IC200
S10V REG.
15V
35V
CN200
SWITCHING
POWER
SUPPLY
AC IN
DC regulator and audio output section
Video driver and video out component section
UCS,SCS,SCLK
U2SDT,S2UDT
CPURST
CN702
Y,Cb,Cr
J701
COMPONENT
VIDEO OUT
V-MUTE1
V-MUTE2
Y/COMP,C
CR-R,CB-B
Y2-G
IC701
VIDEO
DRIVER
Y,C,CV
J702
S-VIDEO OUT
COMPOSITE
VIDEO OUT
CN503
CN703

Standard schematic diagrams

■ DC regulator and audio output section



EXPLANATION OF OVERALL SCHEMATIC	
MODEL	EX-D5
SHEET NUMBER	CIRCUITS DESCRIPTION
1	DC REGULATOR/AUDIO OUTPUT
2	DIGITAL AMPLIFIER CIRCUIT
3	SYSTEM CONTROL
4	VOLUME/AHB CIRCUIT/ HP. CIRCUIT/SUBWOOFER
5	FL DISPLAY/USER CONTROL KEYS REMOCON CIRCUIT/HEADPHONE/WIRELESS INDICATOR
6	VIDEO DRIVER/VIDEO OUT COMPONENT
7	DVD SERVO AND DVD SYSTEM CONTROL (1/2)
8	DVD SERVO AND DVD SYSTEM CONTROL (2/2) & DVD TRAY LOADING CONTROL
9	WIRELESS USB MODULE

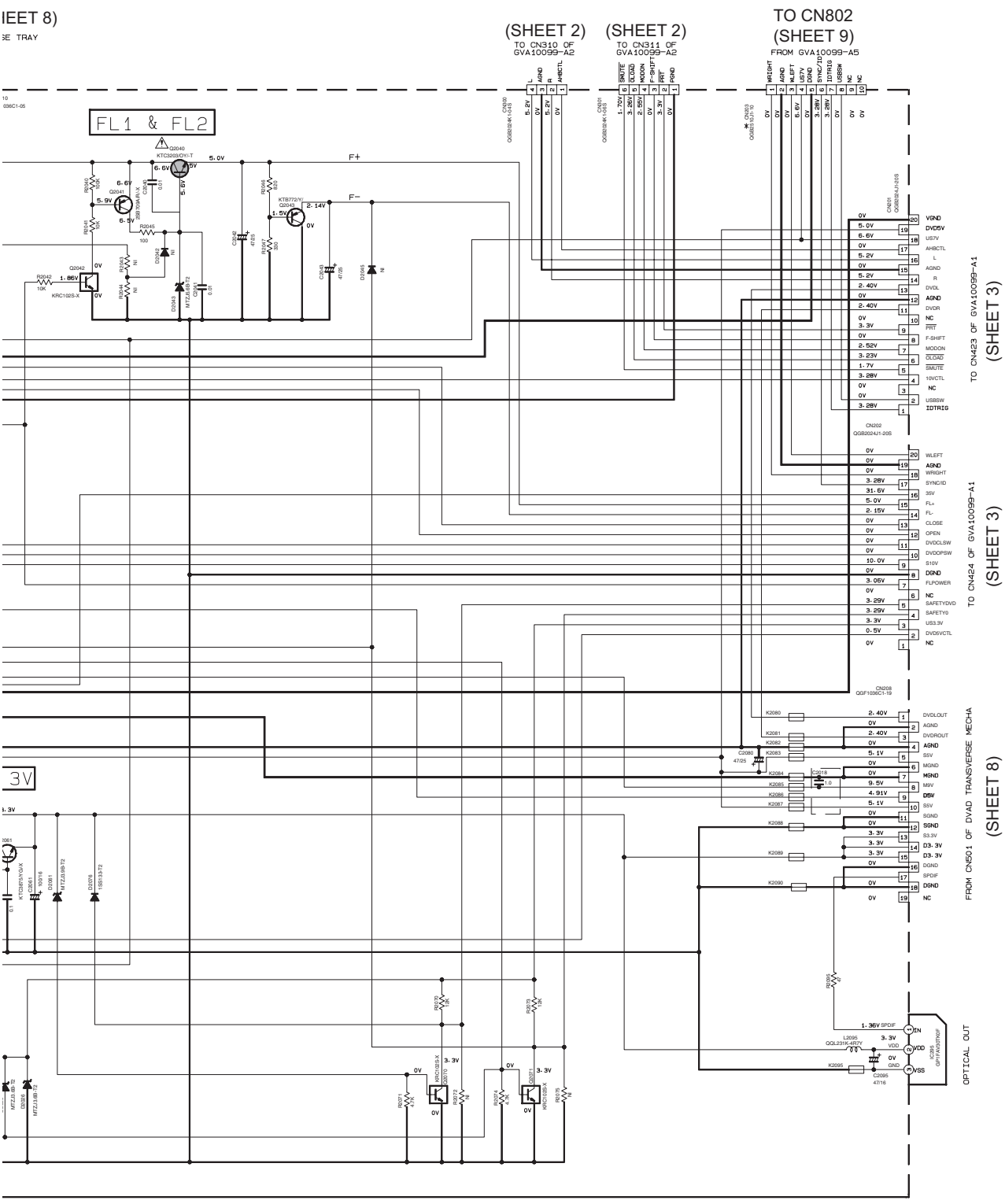
✳ MARK

REF.NO \ MODEL	FS-Y1/FS-Y3	EX-D1	EX-D5
CN203	NO USE	NO USE	QGB2510J1-10
W201	QUB030-30FPHM-E	WJZ0160-002A-E	WJZ0160-002A-E
W202	QUB030-31FPQT-E	WJZ0161-002A-E	WJZ0161-002A-E
W203	NO USE	WJZ0165-001A-E	WJZ0165-001A-E

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL V
CONDITION-CD STOP MODE

KRC102S-X KRA102S-X



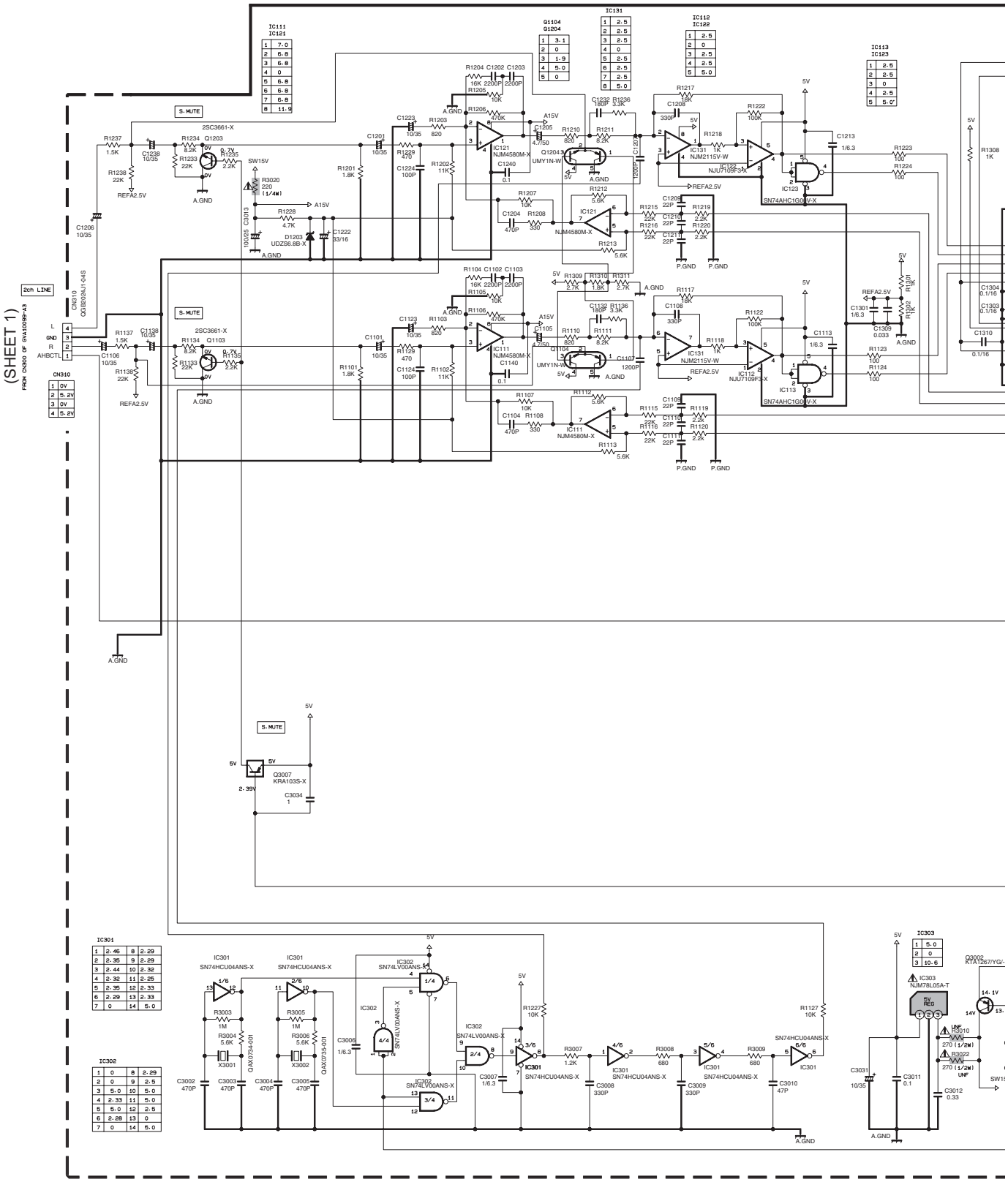
⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

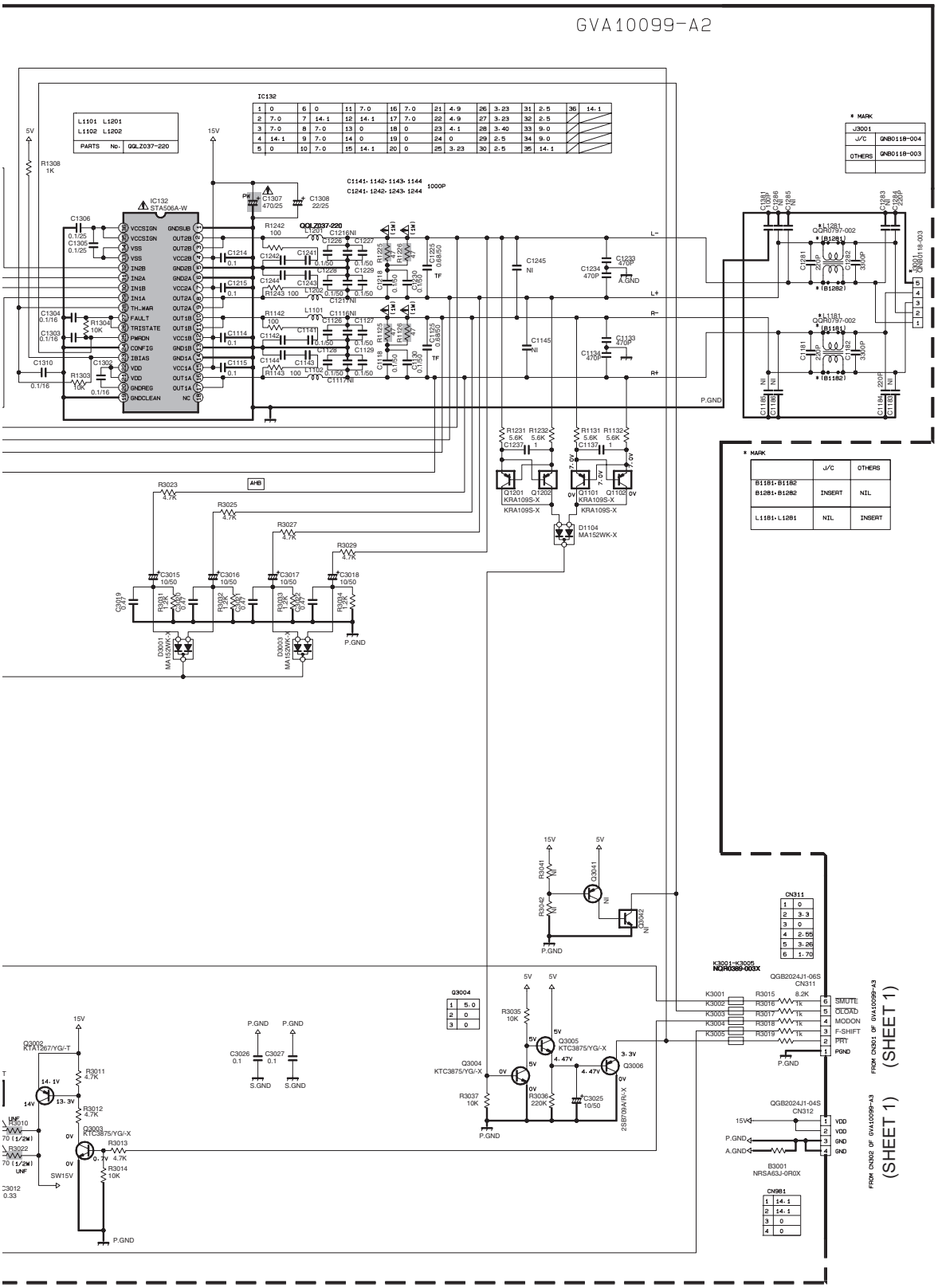
A DIGITAL VOLT METER WITHOUT INPUT SIGNAL

2. UNLESS OTHERWISE SPECIFIED.
RESISTORS ARE 1/16W ± 5% METAL GLAZED RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL INDUCTANCE VALUES ARE IN μH(m=mH).
ALL E.CAPACITORS ARE SHOWN IN THE FORM RESET OF INH CAPACITANCE (μF)/RATED VOLTAGE(V).

SHEET 1

■ Digital amplifier circuit section





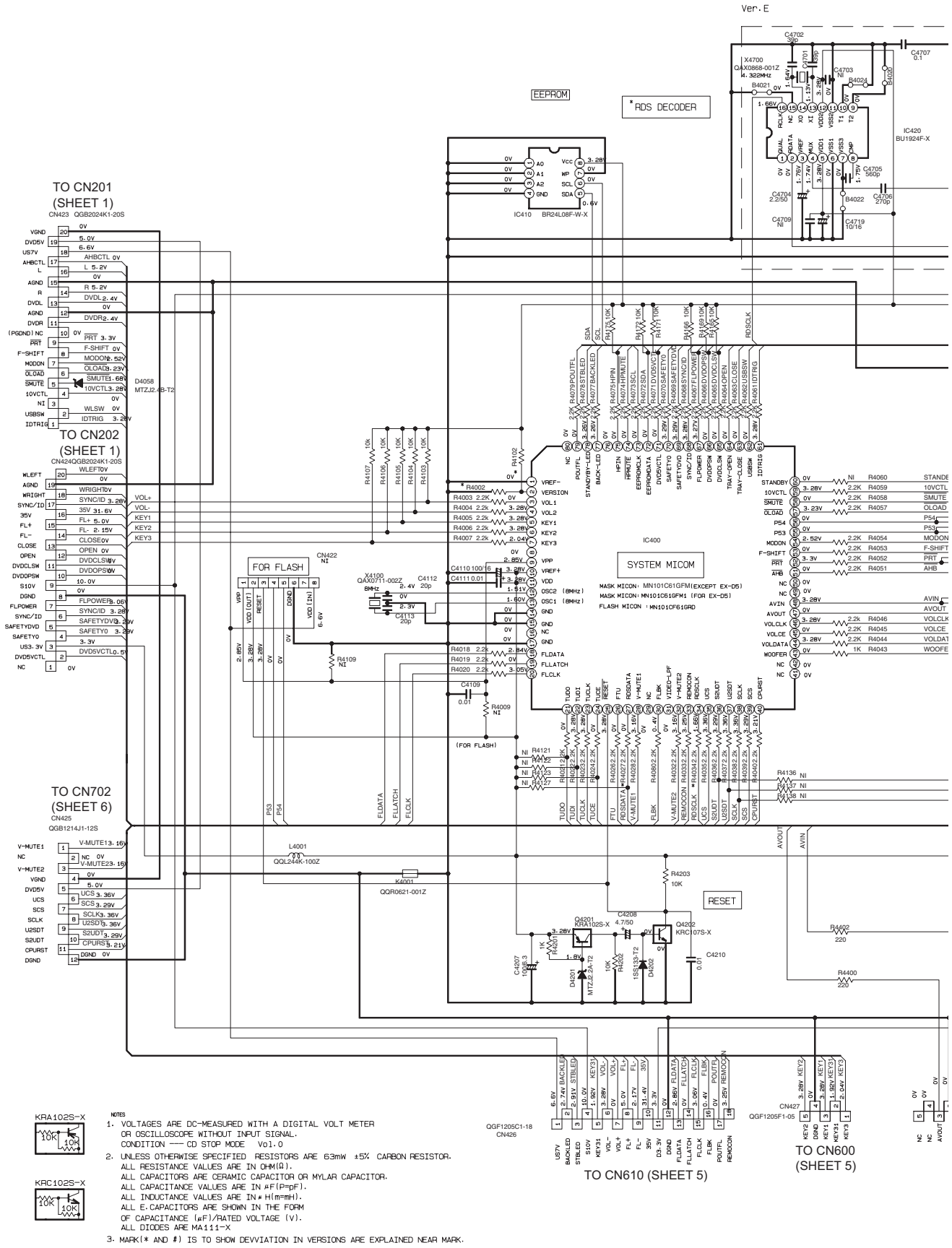
Parts are safety assurance parts.
When replacing those parts make sure to use the specified one.

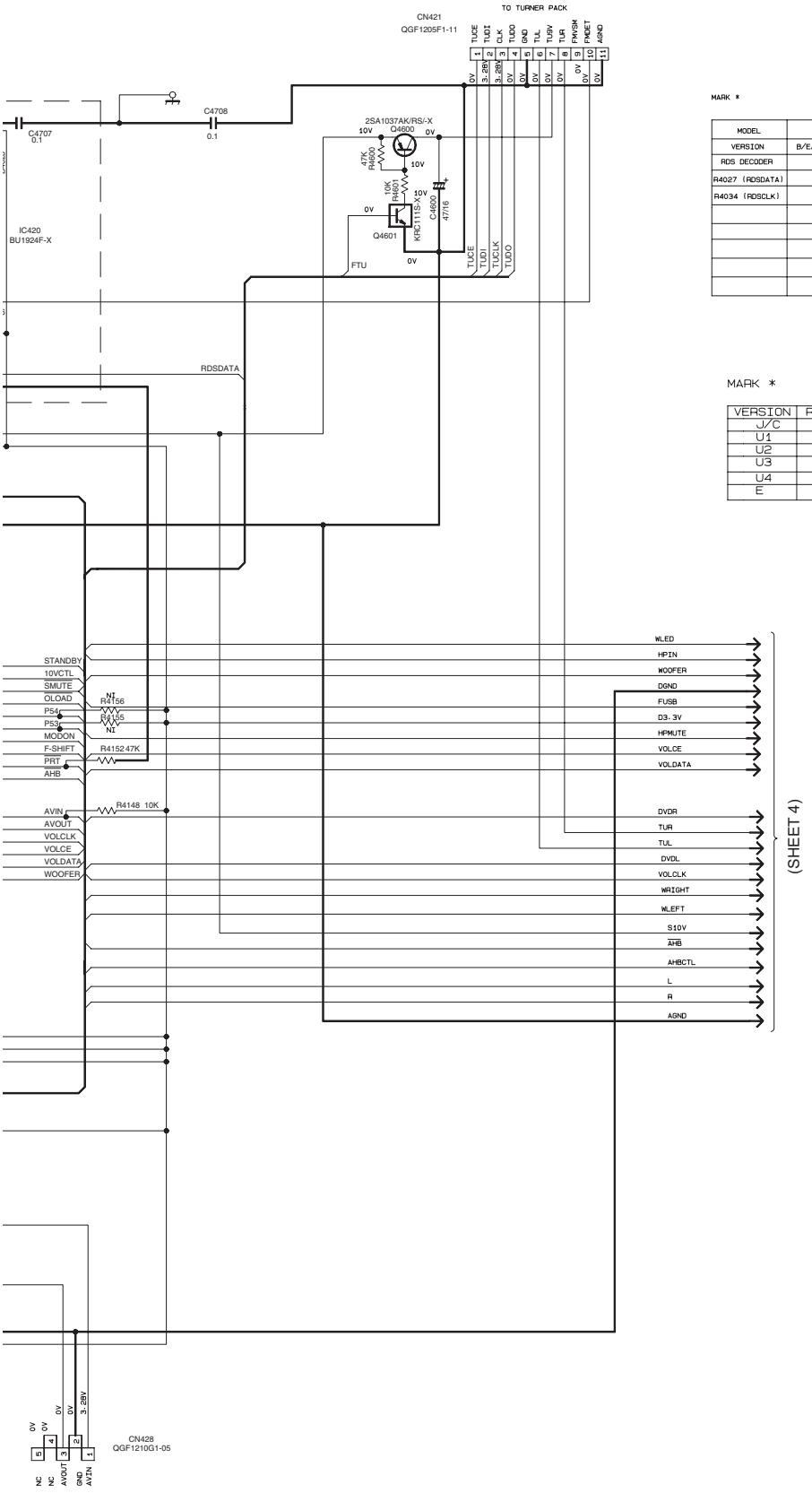
MYLAR CAPACITOR.

ET OF INH CAPACITANCE

SHEET 2

■ System control section





MARK *

MODEL	EX-D1	EX-D5	FS-Y1/FS-Y3
VERSION	B/E/EN/EV/EE	B/E/EN/EV/EE	B/E/EN/EV/EE
RDS DECODER	USE	USE	USE
R4027 (RDSDATA)	USE	USE	USE
R4034 (RDSCLK)	USE	USE	USE

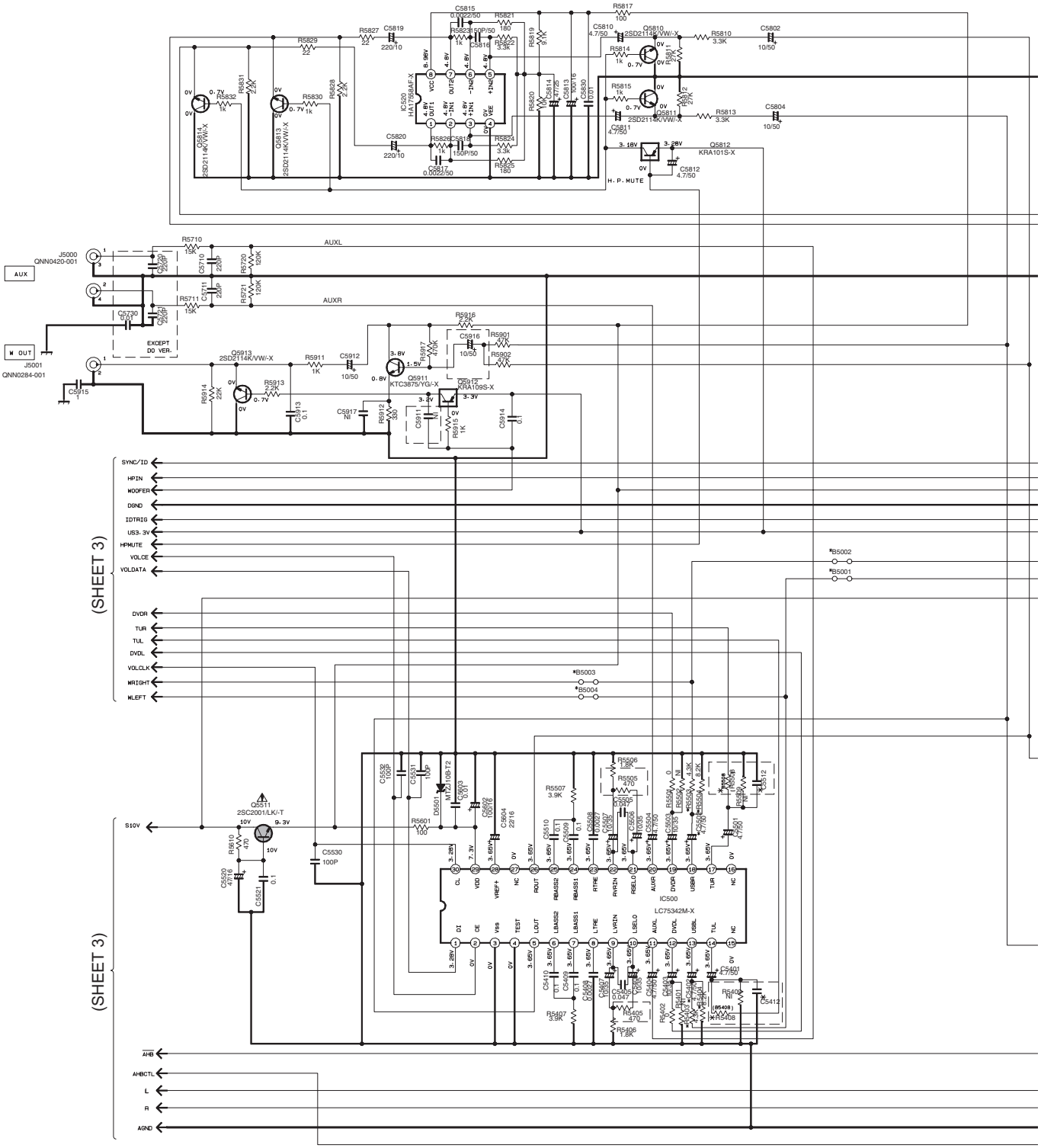
MARK *

VERSION	R4102	R4002
J/C	10K	3.6K
U1	10K	8.2K
U2	10K	16K
U3	10K	39K
U4	10K	NONE
E	NONE	10K

SHEET 3

■ Volume, AHB circuit, HP. circuit and subwoofer section

TC



MARK *

	EX-D1	EX-D5	FS-Y1/ FS-Y3
B5001	USE	NONE	NONE
B5002	USE	NONE	NONE
B5003	NONE	USE	NONE
B5004	NONE	USE	NONE
R5403	4.3K	4.3K	NONE
R5404	8.2K	8.2K	NONE
R5503	4.3K	4.3K	NONE
R5504	8.2K	8.2K	NONE
C5402	4.7/50	4.7/50	NONE
C5502	4.7/50	4.7/50	NONE

MARK *

	EX-D1		EX-D5		FS-Y1/ FS-Y3	
	B/E/EN/EV/EE	OTHERS	B/E/EN/EV/EE	OTHERS	B/E/EN/EV/EE	OTHERS
R5408	4.7K	NONE	4.7K	NONE	4.7K	NONE
R5508	4.7K	NONE	4.7K	NONE	4.7K	NONE
B5408	NONE	USE	NONE	USE	NONE	USE
B5508	NONE	USE	NONE	USE	NONE	USE
C5412	3300p	NONE	3300p	NONE	3300p	NONE
C5512	3300p	NONE	3300p	NONE	3300p	NONE
R5100	NONE		USE · 330		NONE	
C5750	USE		NONE		NONE	
Q5750	USE		NONE		NONE	
R5750	USE		NONE		NONE	

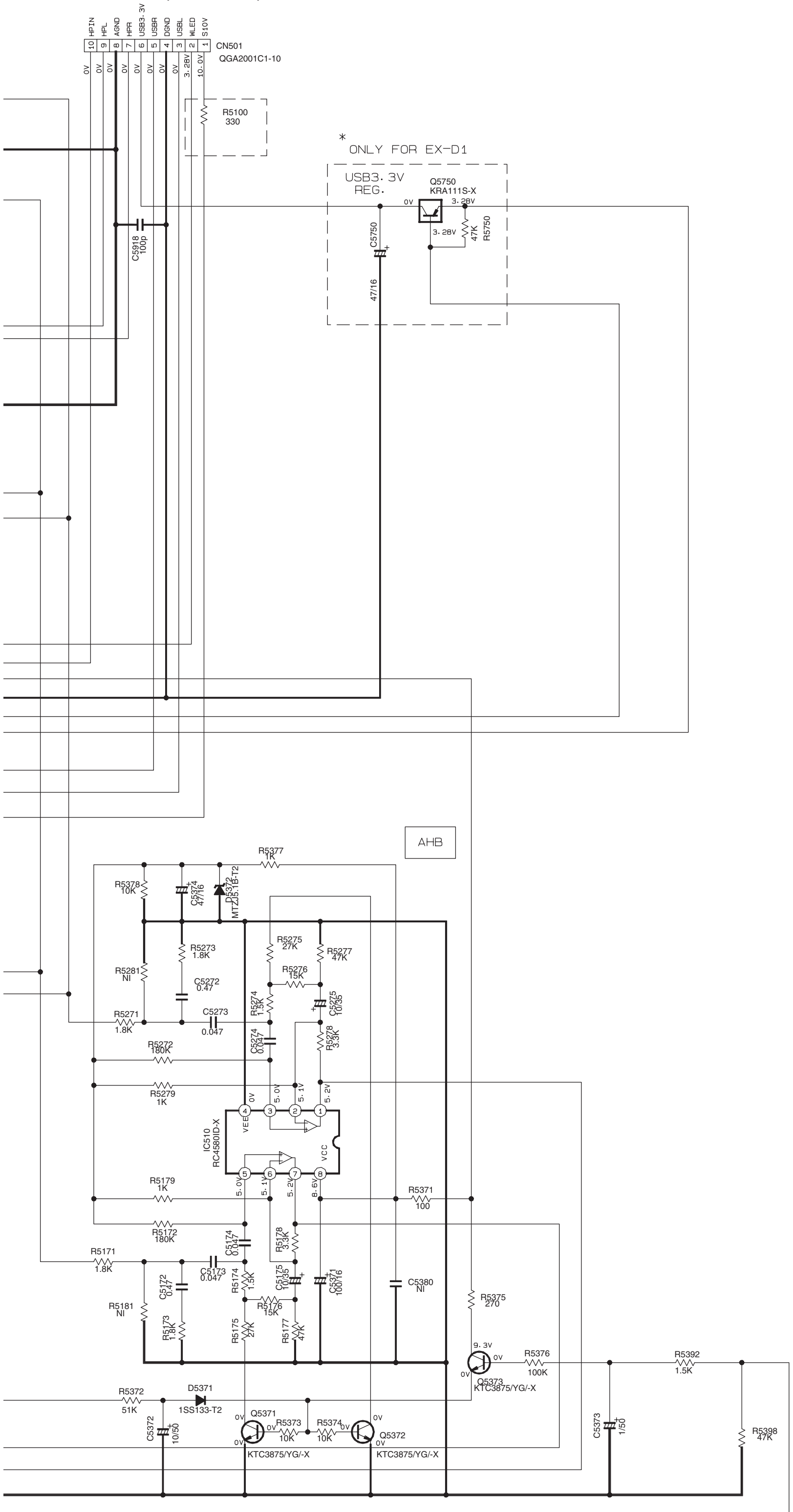
NOTES

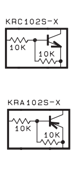
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION- CD STOP MODE
2. UNLESS OTHERWISE SPECIFIED.

ALL RESISTANCE VALUES ARE IN OHM[Ω].
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYL CAPACITOR.
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL INDUCTANCE VALUES ARE IN μH(m=mH).
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).

ALL DIODES ARE 1SS133-T2

TO FW621 (SHEET 5)





⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

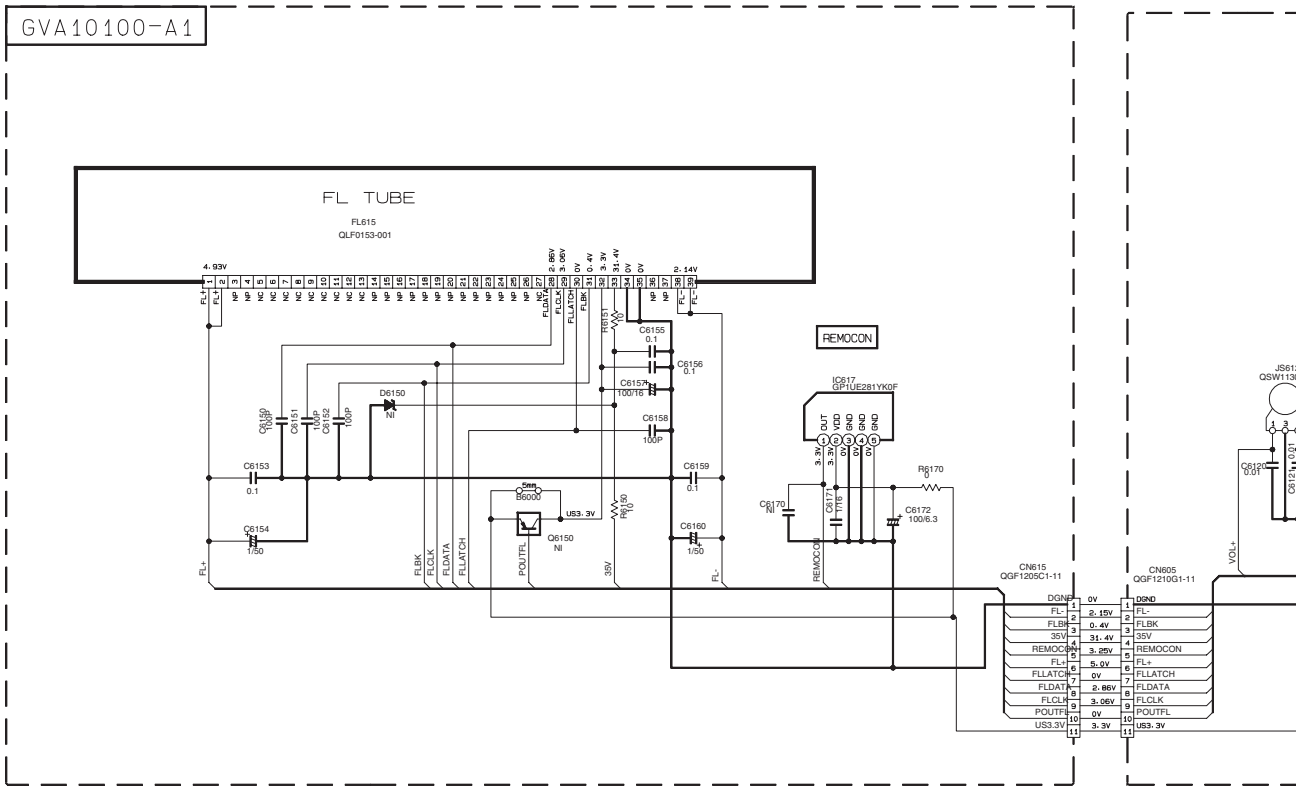
A DIGITAL VOLT METER
GNAL.

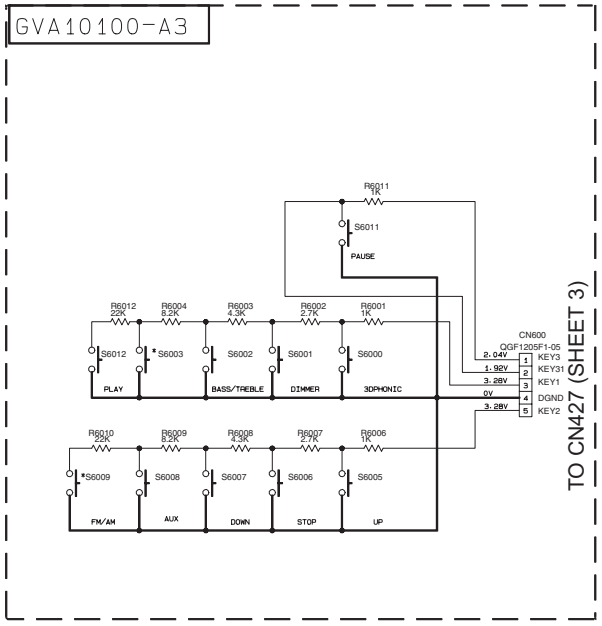
OHM(Ω).
PACITOR OR MYLAR

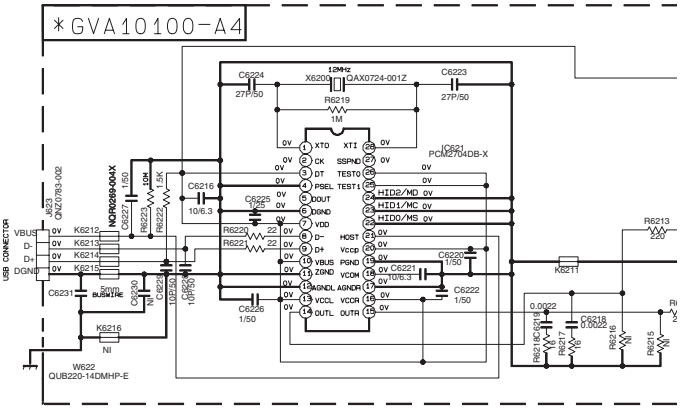
μF(P=pF).
H(m=mH).
THE FORM OF
AGE (V).

SHEET 4

■ FL display, user control keys, remocon circuit, headphone and wireless indicator section







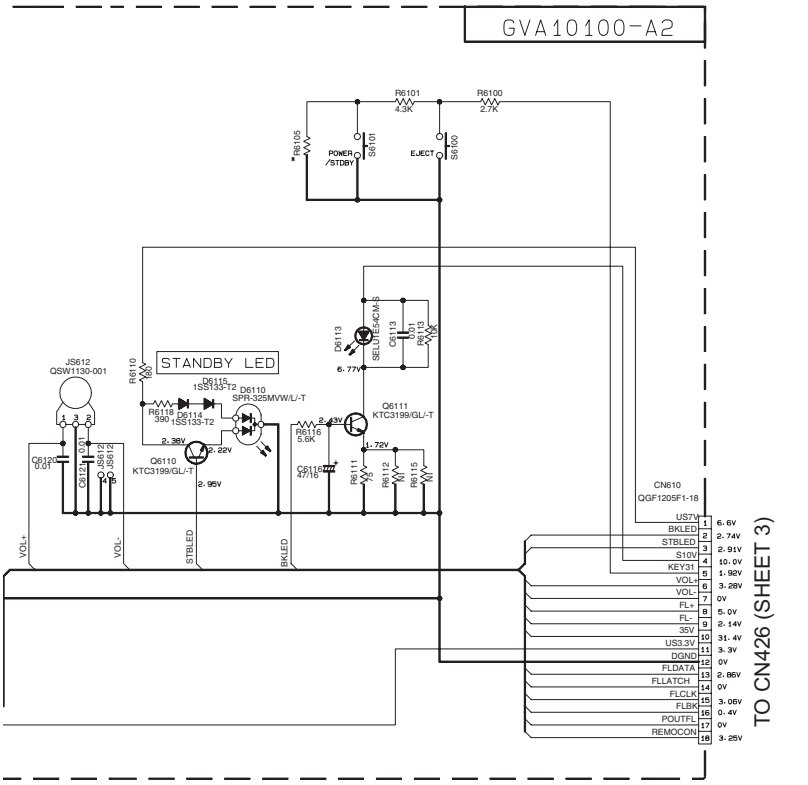
MARK *

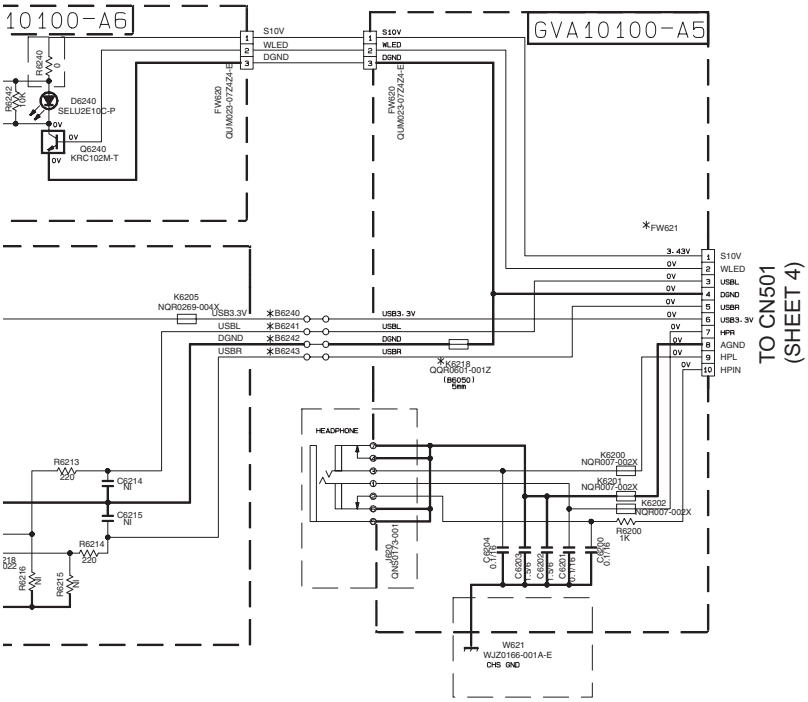
MODEL	EX-D1	EX-D5	FS-Y1/FS-Y3
S6003	USB	WIRELESS	FM
S6009	FM/AM	FM/AM	AM
R6105	8.2K	33K	NONE
K6218	QQR0601-001Z	NONE	NONE
B6050	NONE	GUY150-050Y	GUY150-050Y
B6240, B6241 B6242, B6243	GUY15B-075Y	NONE	NONE
GVA10100-A4	USE	NONE	NONE
GVA10100-A5	NONE	USE	NONE
FW621	WJK021B-001A-E	WJK021B-001A-E	GJK043-041520-E

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGIT
   OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION ---- CD STOP MODE Vol.0
2. UNLESS OTHERWISE SPECIFIED RESISTORS A
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR
   ALL CAPACITANCE VALUES ARE IN ★F(PmpF).
   ALL INDUCTANCE VALUES ARE IN ★H(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM
   OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE MA111-X
3. MARK(* AND #) IS TO SHOW DEVVIATION IN
   ALL SWITCHES ARE QSW1121-001Z

ction



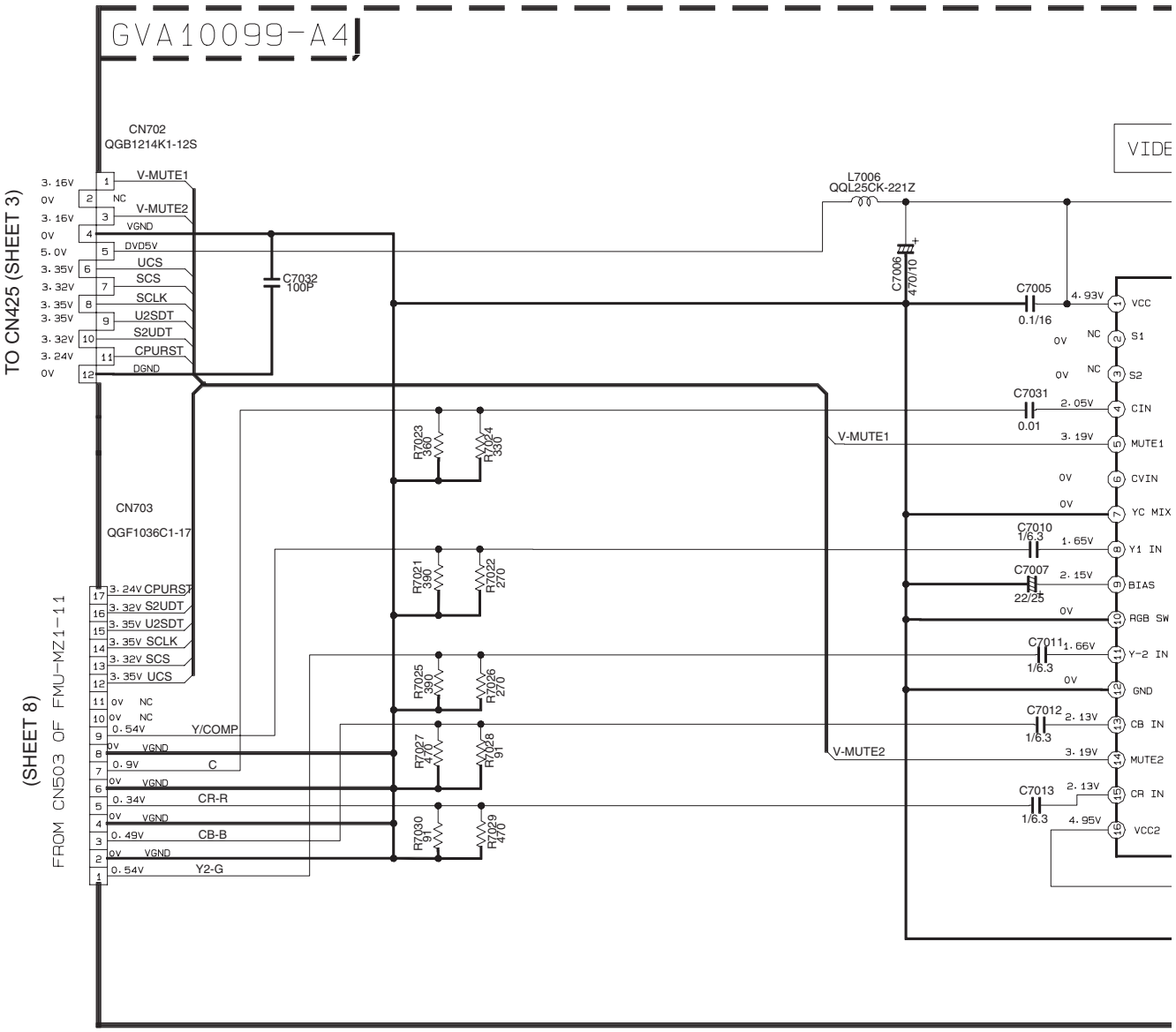


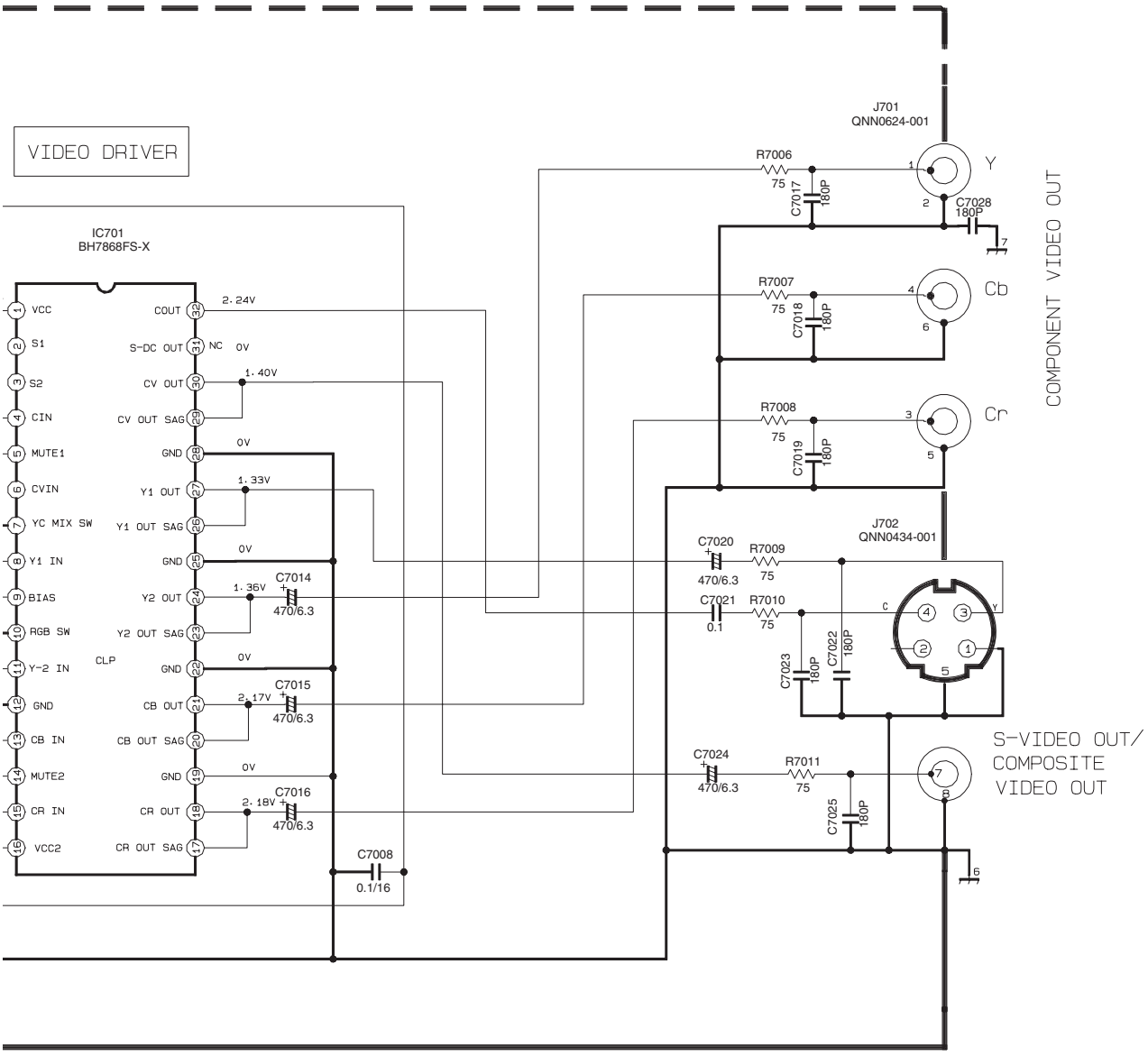
WITH A DIGITAL VOLT METER
NPUT SIGNAL.
: Vol.O
) RESISTORS ARE 1/8W ±5% CARBON RESISTOR.
IN OHM(Ω).
) CAPACITOR OR MYLAR CAPACITOR.
E IN ∗F(P=pF).
IN ∗H(m=mH).
N IN THE FORM
VOLTAGE (V).

DEVVIATION IN VERSIONS ARE EXPLAINED NEAR MARK.
21-001Z

SHEET 5

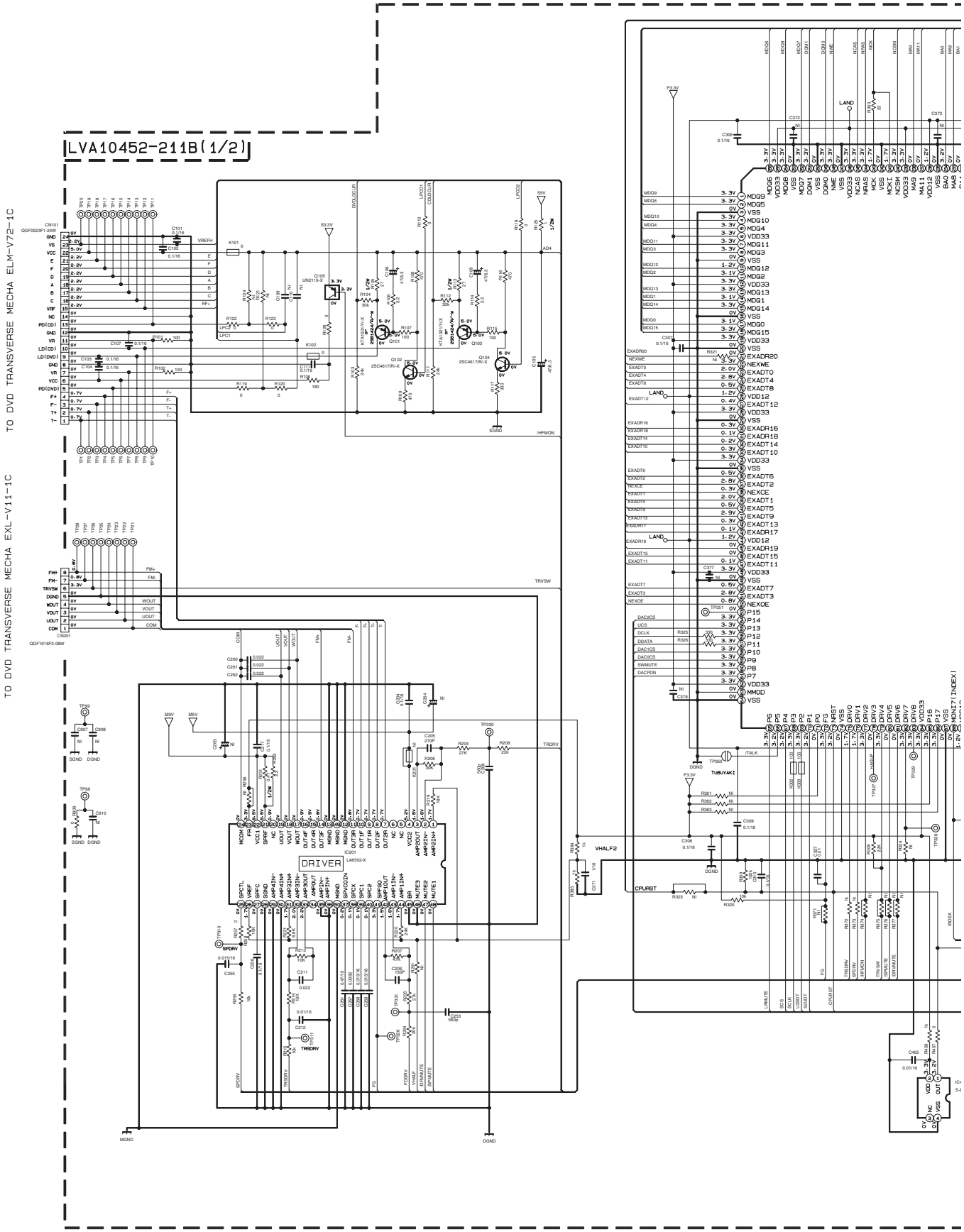
■ Video driver and video out component section

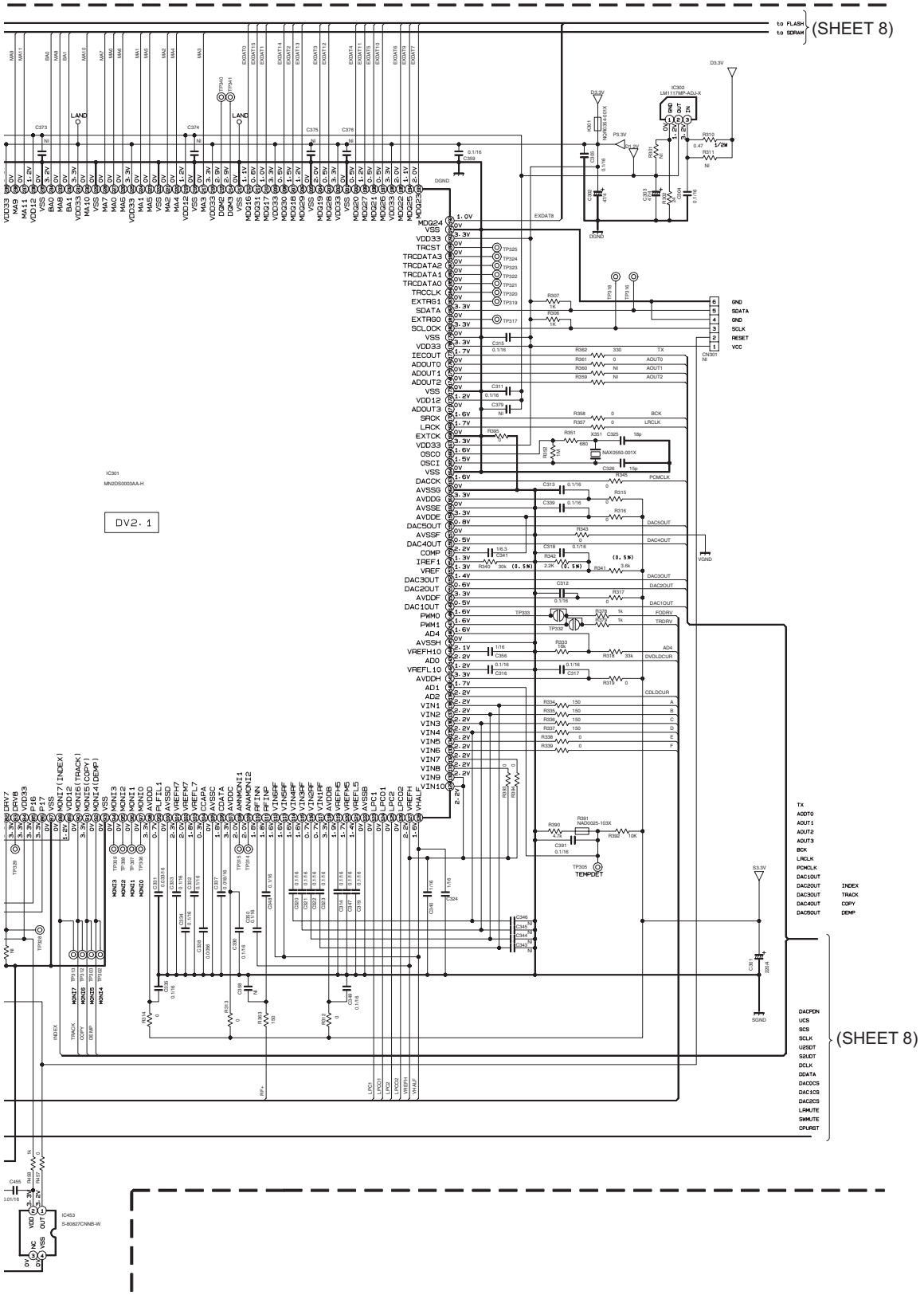



VIDEO DRIVER
IC701
BH7868FS-X
VCC
S1
S2
CIN
MUTE1
CVIN
YC MIX SW
Y1 IN
BIAS
RGB SW
Y-2 IN
GND
CB IN
MUTE2
CR IN
VCC2
COUT
S-DC OUT
CV OUT
CV OUT SAG
GND
Y1 OUT
Y1 OUT SAG
GND
Y2 OUT
Y2 OUT SAG
GND
CB OUT
CB OUT SAG
GND
CR OUT
CR OUT SAG
CLP
2.24V
NC 0V
1.40V
0V
1.33V
0V
1.36V
2.17V
0V
2.18V
C7014
C7015
C7016
470/6.3
C7008
0.1/16
J701
QNN0624-001
Y
Cb
Cr
R7006
R7007
R7008
75
C7017
C7018
C7019
180P
C7028
J702
QNN0434-001
C7020
C7021
R7009
R7010
C7022
C7023
R7011
C7024
C7025
0.1
COMPONENT VIDEO OUT
S-VIDEO OUT/
COMPOSITE
VIDEO OUT

SHEET 6

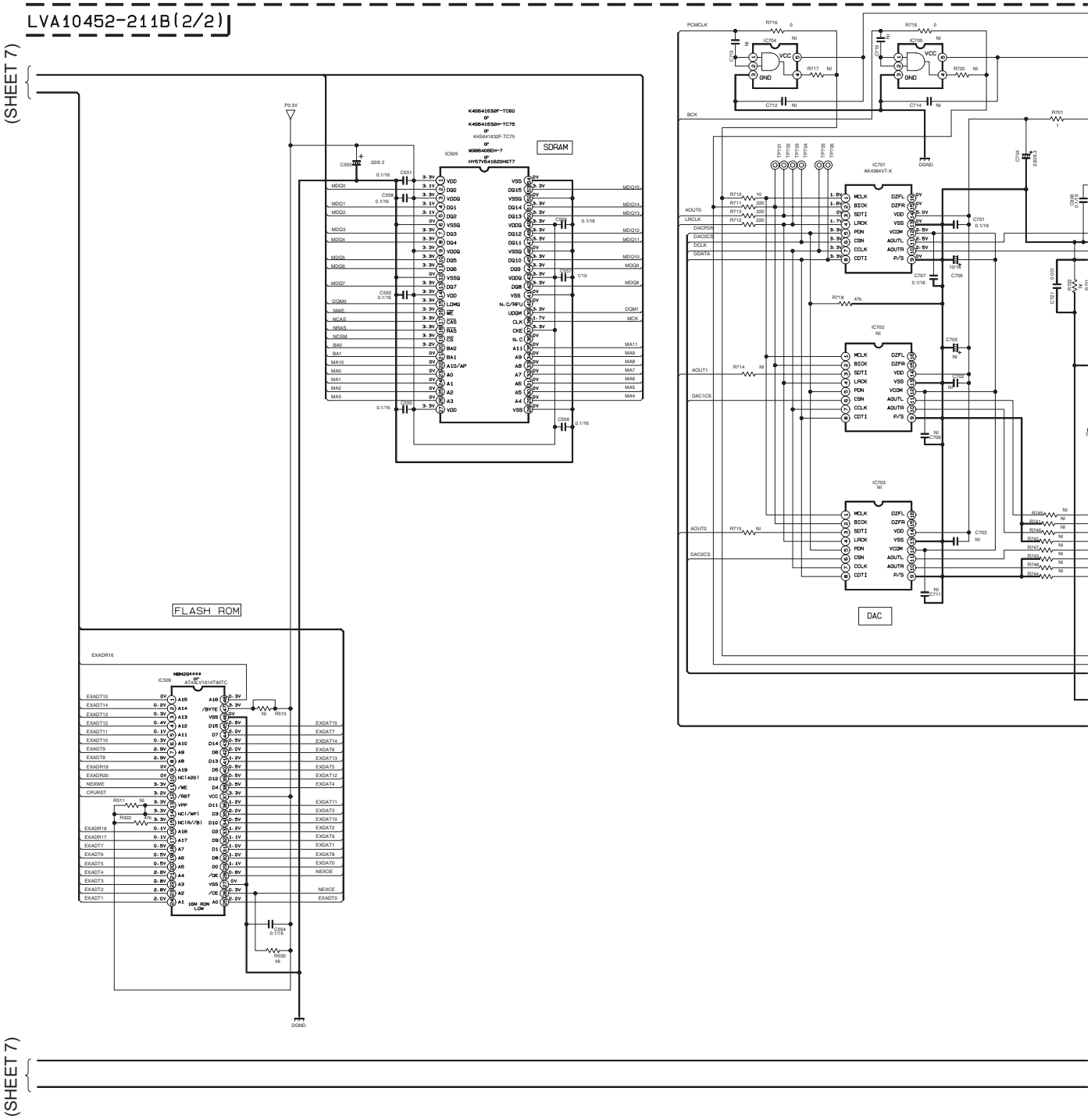
■ DVD servo and DVD system control section (1/2)




to FLASH
to SDRAM
(SHEET 8)
DV2.1
IC301
MN2DS0003AA-H
TEMPDET
(SHEET 8)

SHEET 7

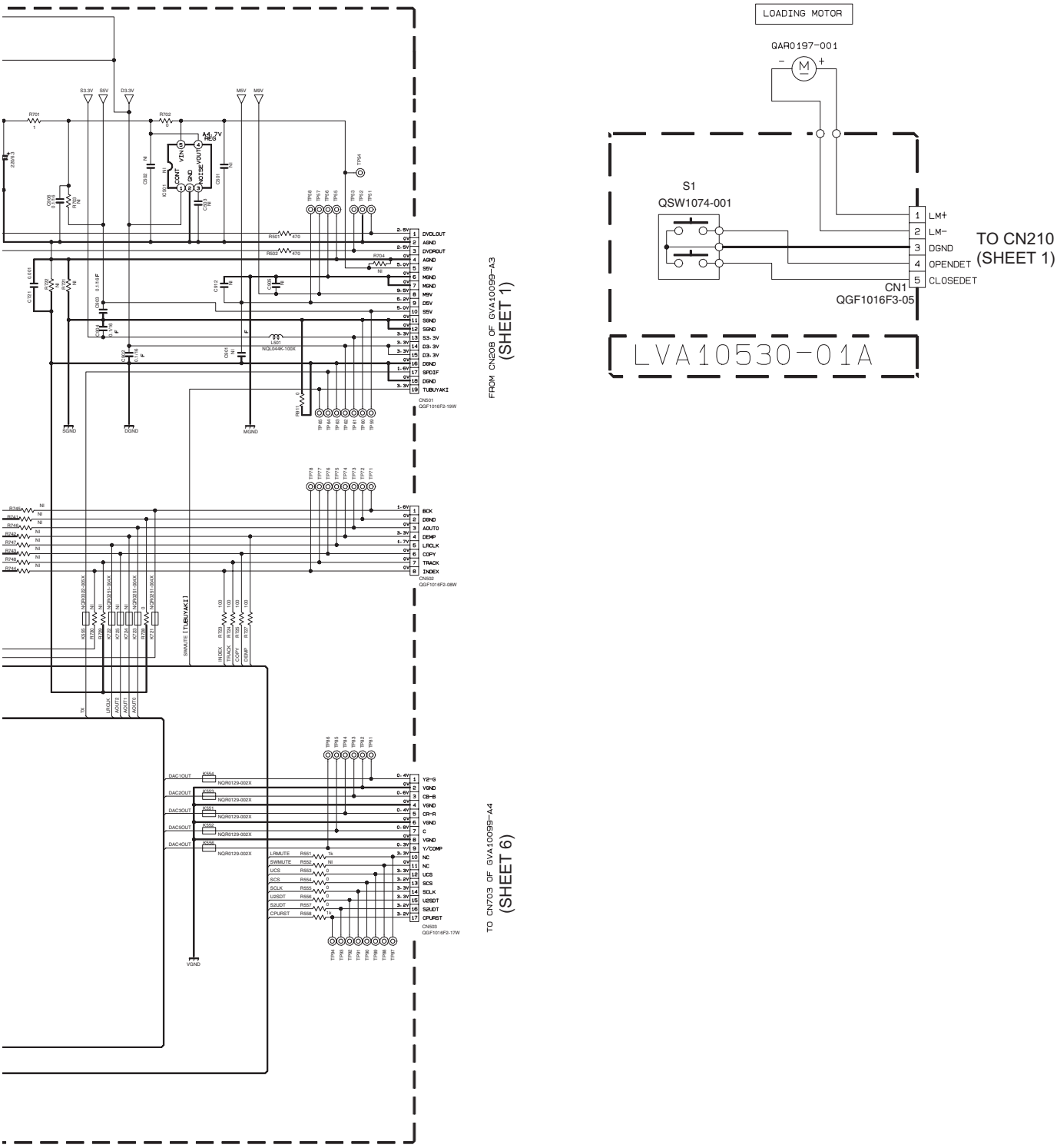
■ DVD servo and DVD system control section (2/2) / DVD tray loading control section



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT S
   CONDITION: DVD DISC IN. MODE: DVD STOP
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR. OR 0.5% METAL
   ALL CAPACITORS ARE 50V OF 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(p=pF).
   ALL E CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF) /RATED
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
3. NI STANDS FOR NOT INSERTED PARTS.
4. DIGITAL TRANSISTOR

KRC102S-X KRA102S-X



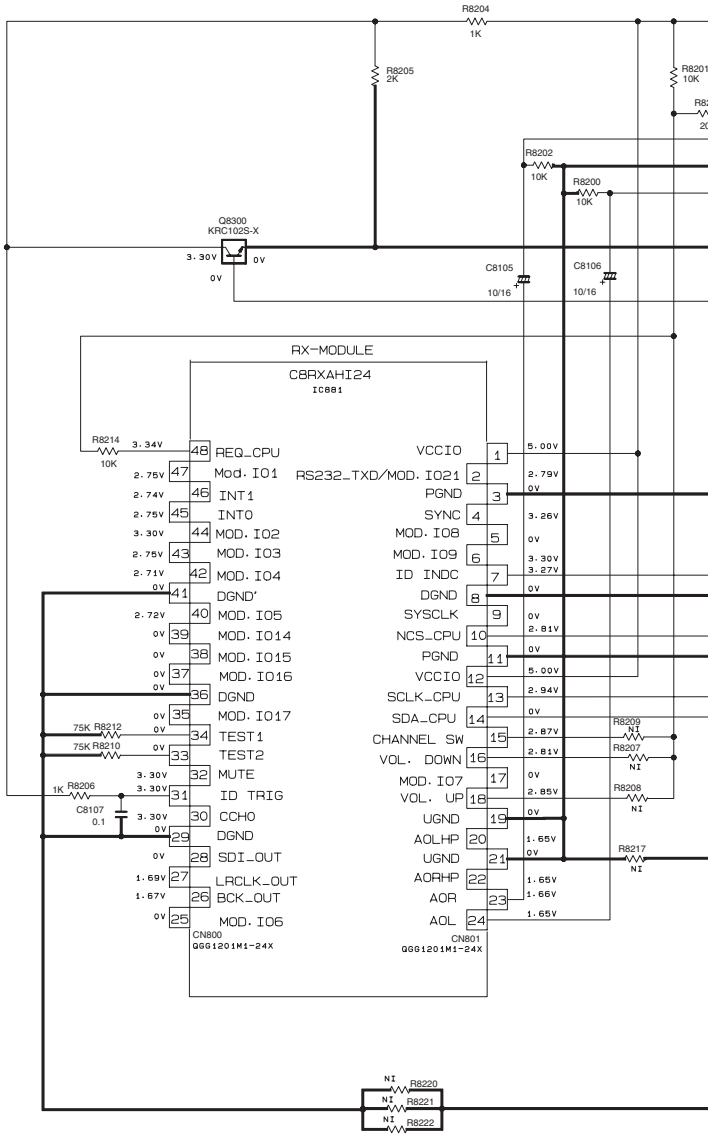
I WITHOUT INPUT SIGNAL.

OR 0.5% METAL GLAZE RESISTOR.

TANCE(μF)/RATED VOLTAGE (V).

■ Wireless USB module section

GVA10099-A5



NOTES

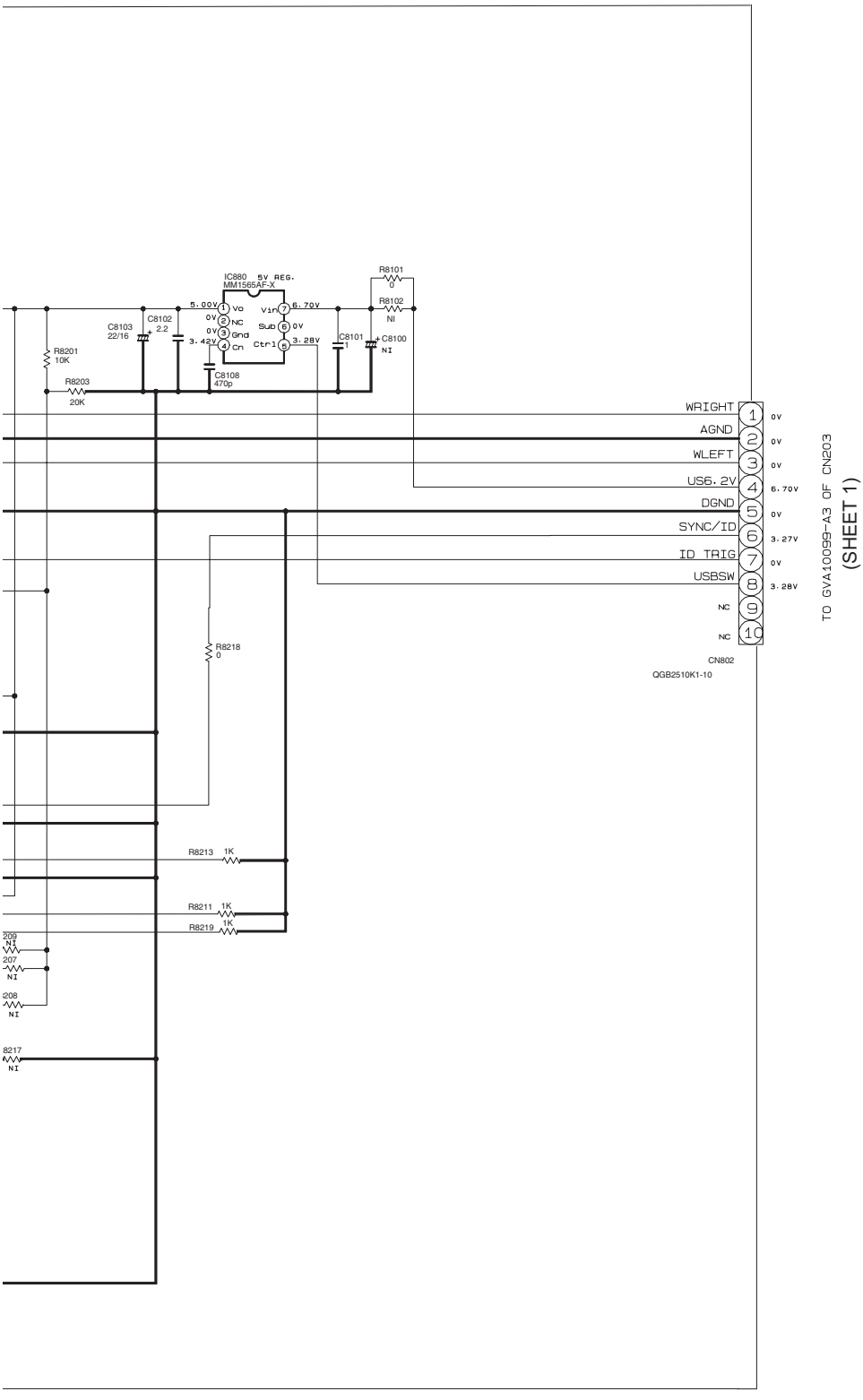
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
   CONDITION: POWER ON MODE : WIRELESS CONNECTED WITHOUT SIGNAL

2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16 W. 5% THICK FILM CHIP RESISTORS
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN HENRY(H).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF) /RATED VOLTAGE (v).

3. NI INDICATES COMPONENT NOT INSERTED

4. DIGITAL TRANSISTOR

KRC102S-X = 10K 10K


IC880 5V REG.
MM1565AF-X
R8101
0
R8102
NI
5.00V
Vo
0V
NC
0V
Gnd
3.42V
Cn
Vin
6.70V
Sub
0V
Ctrl
3.28V
C8103
22/16
C8102
2.2
C8108
470p
C8101
1
C8100
NI
R8201
10K
R8203
20K
WRIGHT
AGND
WLEFT
US6.2V
DGND
SYNC/ID
ID TRIG
USBSW
NC
NC
1
2
3
4
5
6
7
8
9
10
0V
0V
0V
6.70V
0V
3.27V
0V
3.28V
CN802
QGB2510K1-10
TO GVA10099-A3 OF CN203
(SHEET 1)
R8218
0
R8213 1K
R8211 1K
R8219 1K
209
NI
207
NI
208
NI
8217
NI

SHEET 9

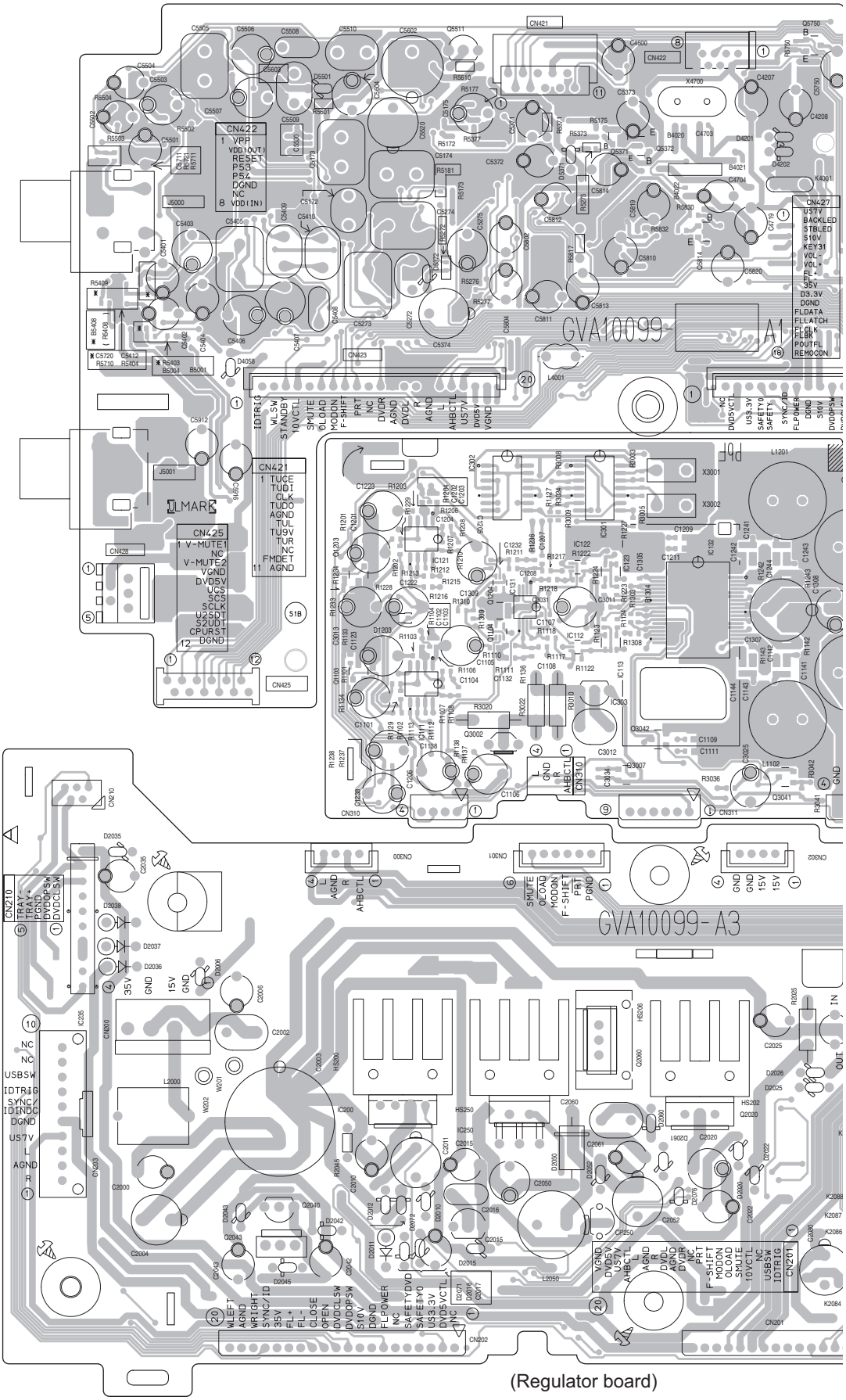
Printed circuit boards

■ Main board (1/2)

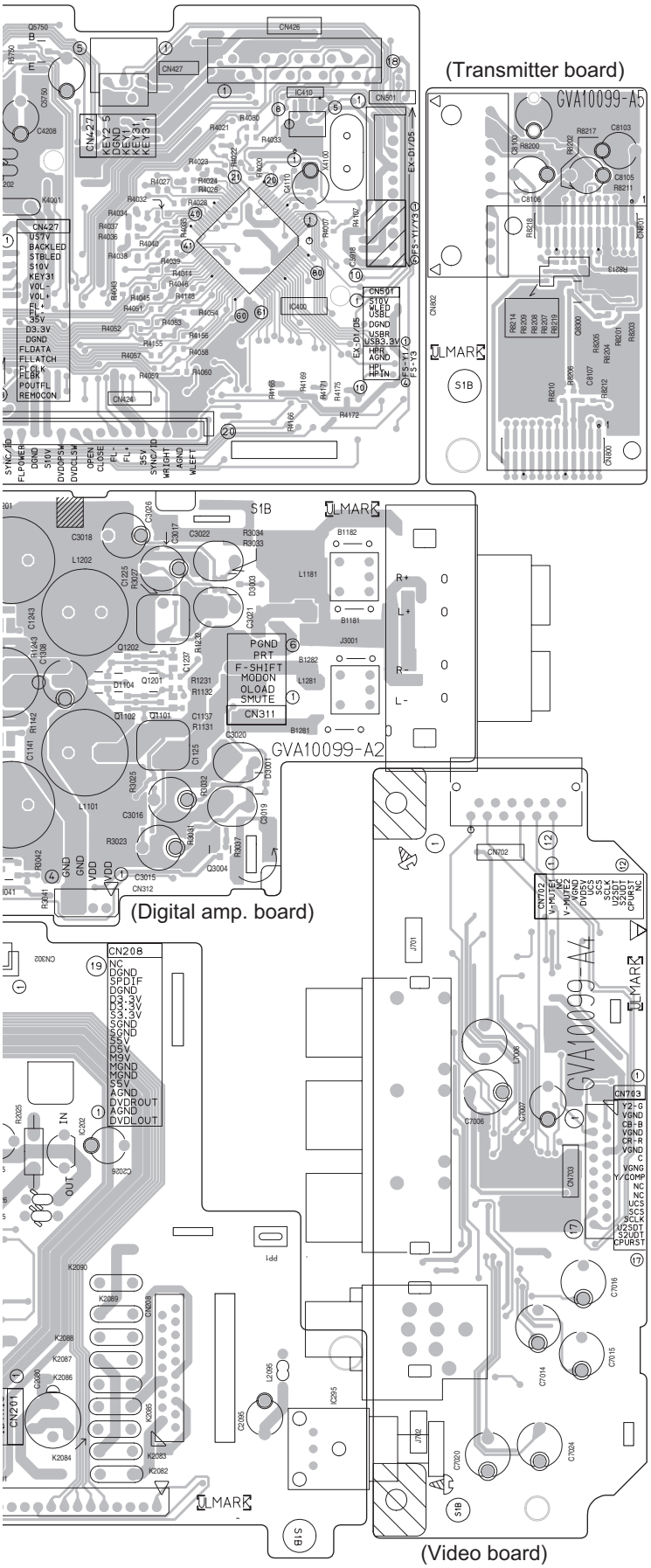
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

(Micom board)

Forward side

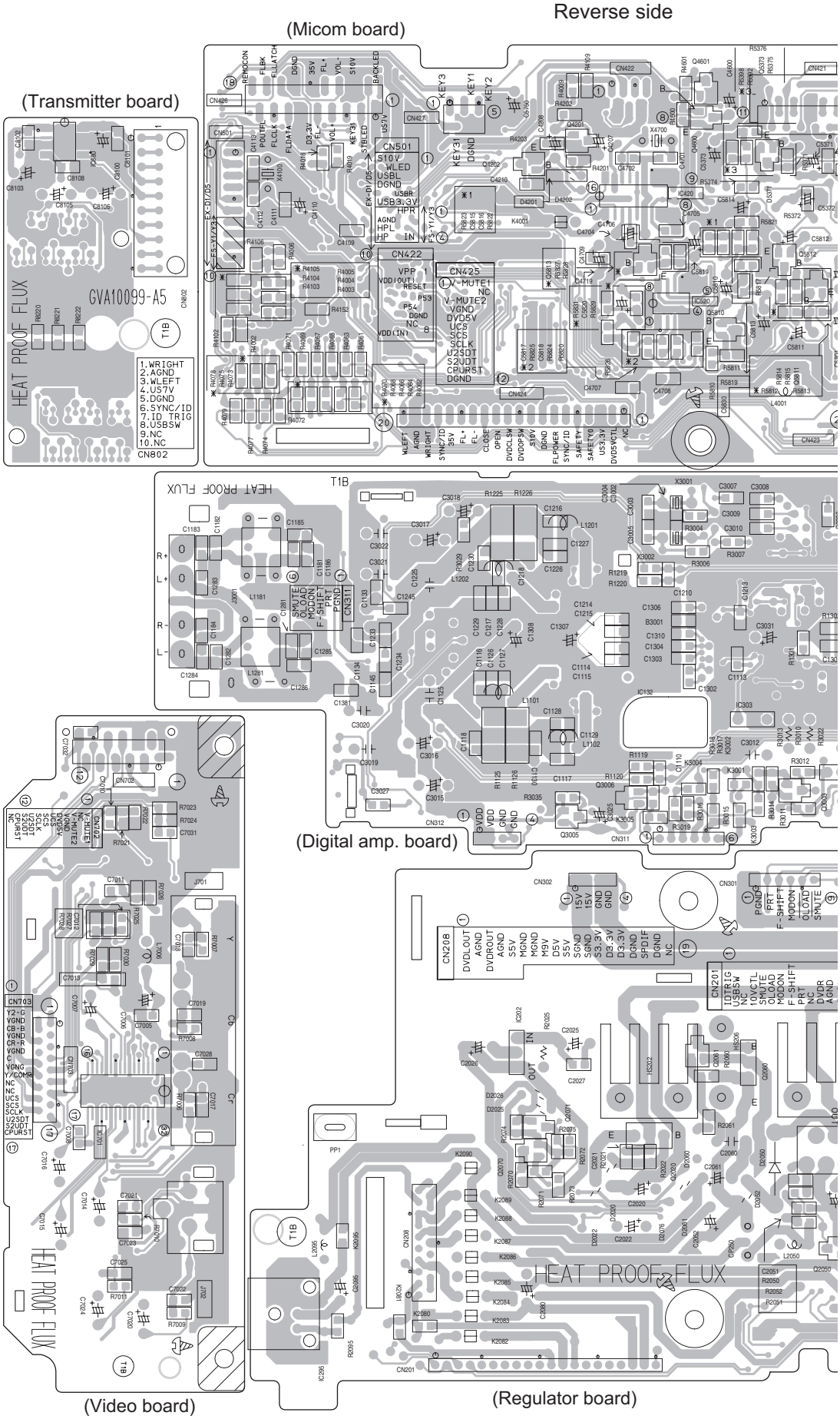


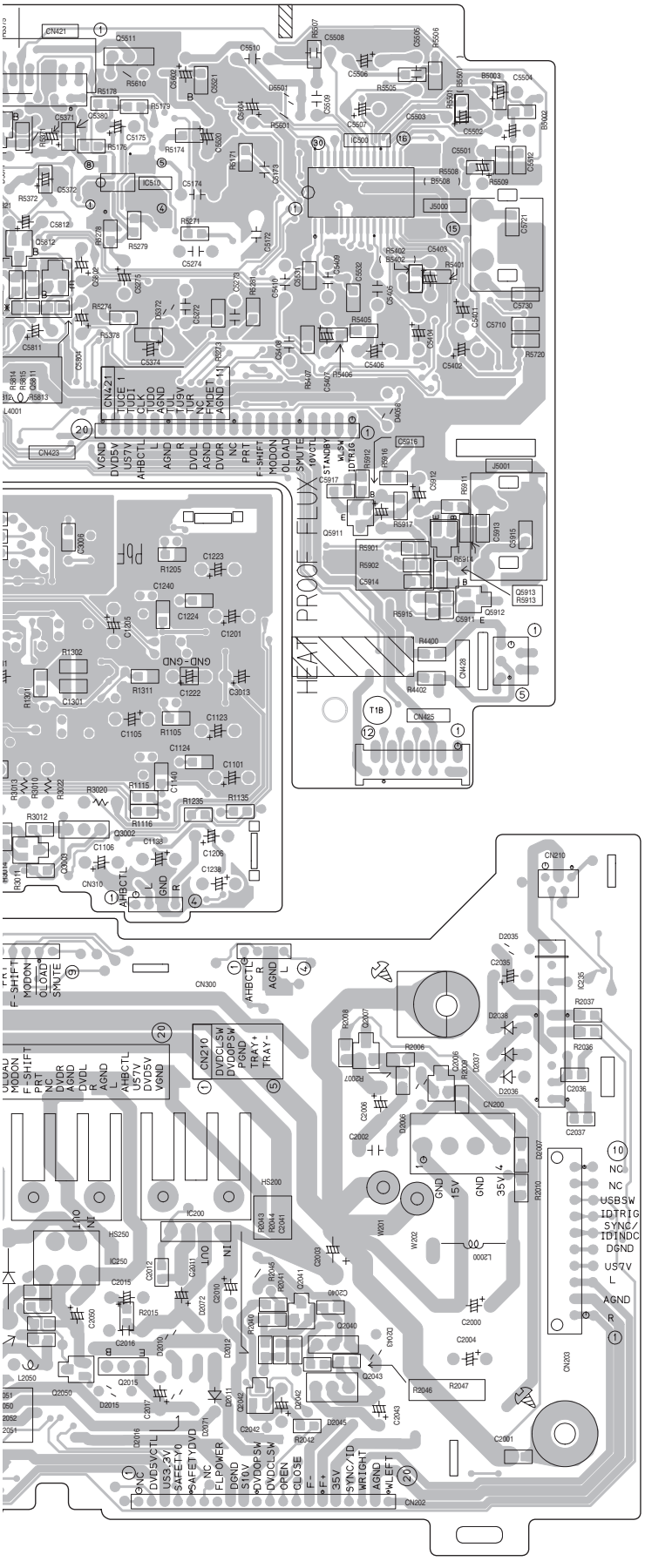
(Regulator board)


(Transmitter board)
GVA10099-A5
(Digital amp. board)
GVA10099-A2
(Video board)
GVA10099-A4

■ Main board (2/2)

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

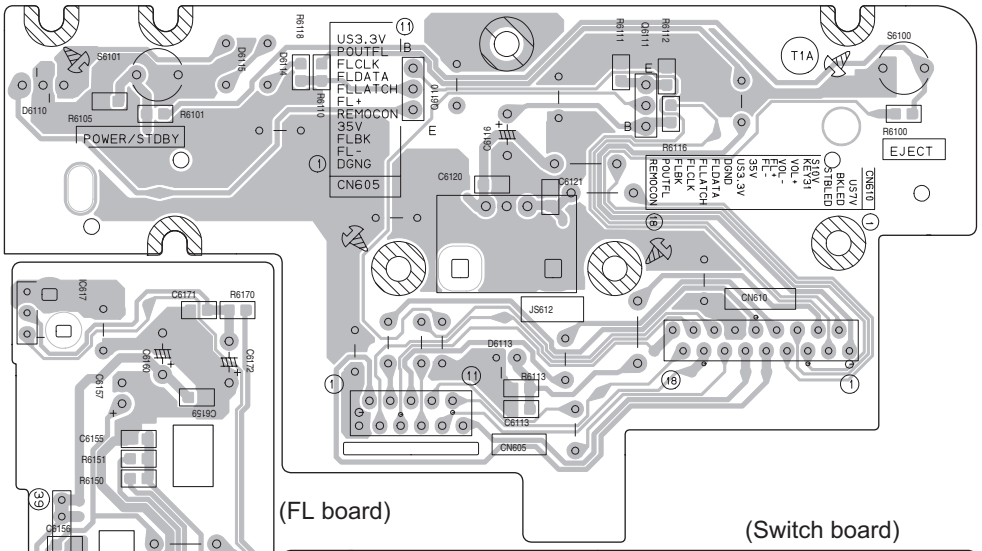



CN421
CN423
CN425
CN428
CN310
CN300
CN210
CN200
CN202
CN203
IC300
IC510
IC200
IC250
J5000
J5001
T1B
HEAT PROOF FLUX
F_SHIFT
MODON
OLOAD
SMUTE
AHBCTL
US7V
DVD5V
VGND
DVDCLSW
DVDOPSW
PGND
TRAY+
TRAY-
PRT
NC
DVDR
AGND
DVDL
R
L
STANDBY
WLSW
IDTRIG
SYNC/ID
WRIGHT
WLEFT
SAFETYDVD
FL_POWER
DGND
S10V
OPEN
CLOSE
35V
15V
GND
USBSW
IDINDC
US7V
AGND

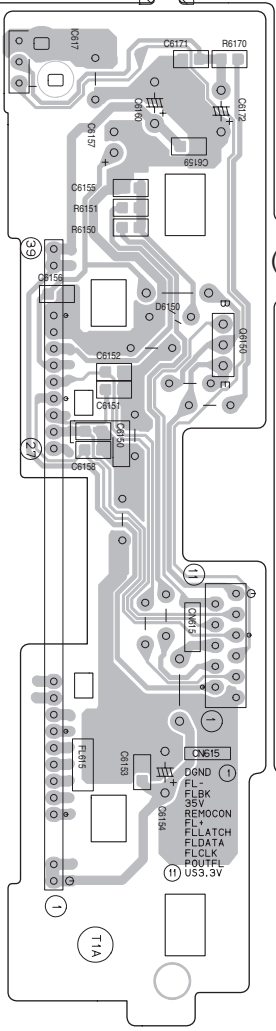
■ FL board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

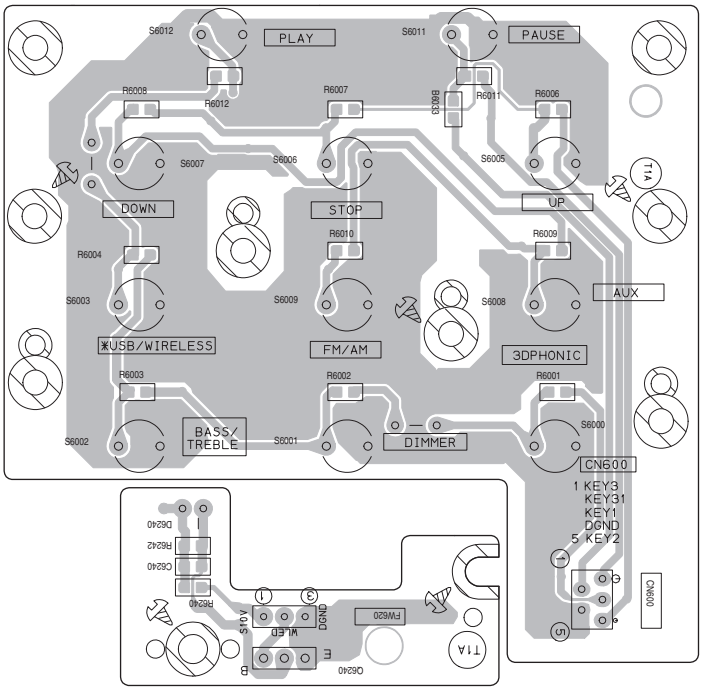
(Front board)



(FL board)

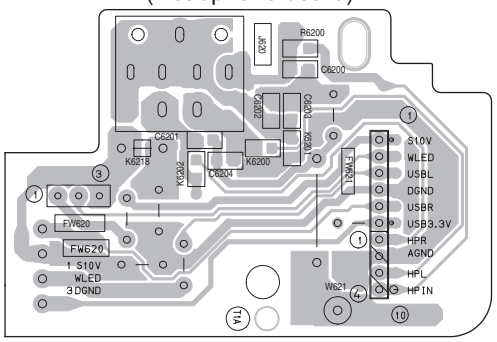


(Switch board)



(LED board)

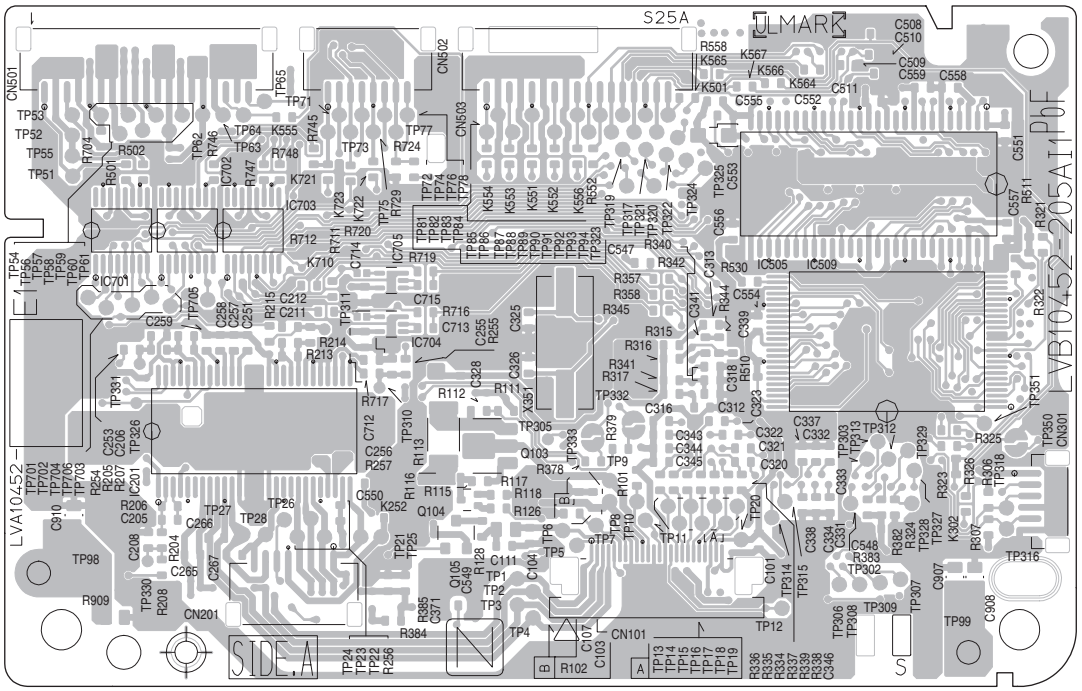
(Headphone board)



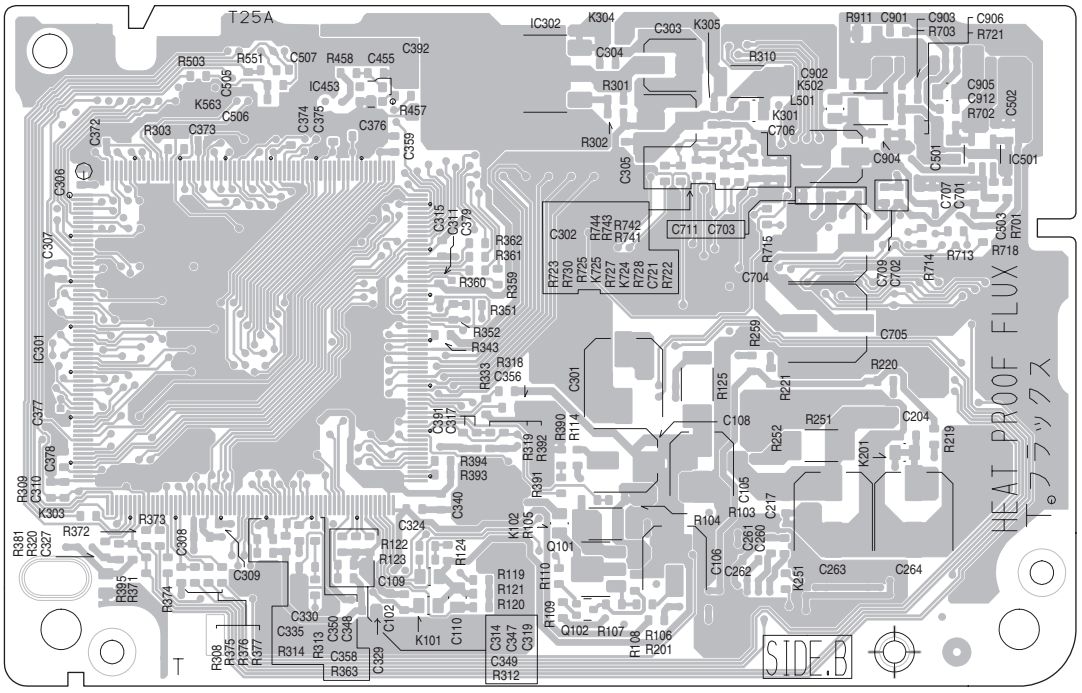
■ DVD module board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Forward side

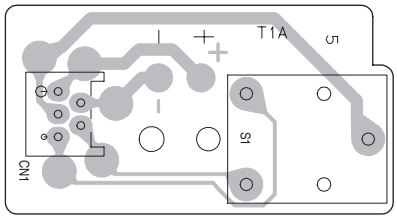


Reverse side



■ DVD loading switch board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)



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