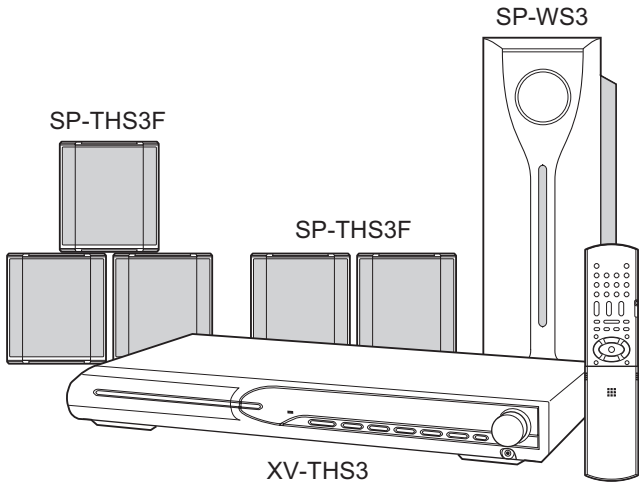
JVC

SERVICE MANUAL

DVD DIGITAL CINEMA SYSTEM

TH-S3

Area suffix	
A	Australia
B	U.K.
E	Continental Europe
EN	Northern Europe
EV	Eastern Europe
EE	Russian Federation



R·D·S DVD AUDIO/VIDEO COMPACT disc SUPER VIDEO DOLBY DIGITAL PRO LOGIC II DIGITAL dts SURROUND *Digital Direct Progressive Scan*

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No.MB187
2004/5

SPECIFICATION

Center unit (XV-THS3)

Audio section	Total Harmonic Distortion	0.02%
	Digital input*1	OPTICAL DIGITAL IN: -21 dBm to -15 dBm (660 nm E30 nm)
Video section	Video System	PAL
	Horizontal Resolution	500 lines
	Signal-to-Noise Ratio	64 dB (Composite signal when "RGB" is selected)
	Video output level	Composite: 1.0 V(p-p)/75 W
		S-video-Y: 1.0 V(p-p)/75 Ω
		S-video-C: 0.3 V(p-p)/75 Ω
		Component-Y: 1.0 V(p-p)/75 Ω
		Component-PB/PR: 0.7 V(p-p)/75 Ω
Tuner section	Tuning Range	FM: 87.50 MHz to 108.00 MHz
		AM: 522 kHz to 1 629 kHz
General	Power Requirements	AC 230 V , 50 Hz
	Power Consumption	75 W (at operation), 1.0 W (in standby mode)
	Dimensions (W × H × D)	360 mm × 65 mm × 370 mm
	Mass	5.3 kg

*1 : Corresponding to Linear PCM, Dolby Digital, and DTS Digital Surround (with sampling frequency - 32 kHz, 44.1 kHz, 48kHz)

Front speakers (SP-THS3F)

Type	1-Way Bass-Reflex Type (Magnetically-shielded Type)
Speaker	8.0 cm cone M 1
Power Handling Capacity	52 W
Impedance	6 Ω
Frequency Range	85 Hz to 20 000 Hz
Sound Pressure Level	82 dB/W·m
Dimensions (W × H × D)	105 mm × 118 mm × 98 mm
Mass	0.60 kg each

Surround speakers (SP-THS3F)

Type	1-Way Bass-Reflex Type (Magnetically-shielded Type)
Speaker	8.0 cm cone M 1
Power Handling Capacity	52 W
Impedance	6 Ω
Frequency Range	85 Hz to 20 000 Hz
Sound Pressure Level	80 dB/W·m
Dimensions (W × H × D)	105 mm × 118 mm × 98 mm
Mass	0.55 kg each

Center speaker (SP-THS3F)

Type	1-Way Bass-Reflex Type (Magnetically-shielded Type)
Speaker	8.0 cm cone M 1
Power Handling Capacity	52 W
Impedance	6 Ω
Frequency Range	85 Hz to 20 000 Hz
Sound Pressure Level	82 dB/W·m
Dimensions (W × H × D)	105 mm × 118 mm × 98 mm
Mass	0.65 kg

Subwoofer (SP-WS3)

Type	1-Way Bass-Reflex Type (Magnetically-shielded Type)
Speaker	16.0 cm cone M 1
Power Handling Capacity	52 W
Impedance	6 Ω
Frequency Range	40 Hz to 1 800 Hz
Sound Pressure Level	85 dB/W·m
Dimensions (W × H × D)	139 mm × 350 mm × 408 mm
Mass	4.0 kg

Designs & specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 Safety Precautions

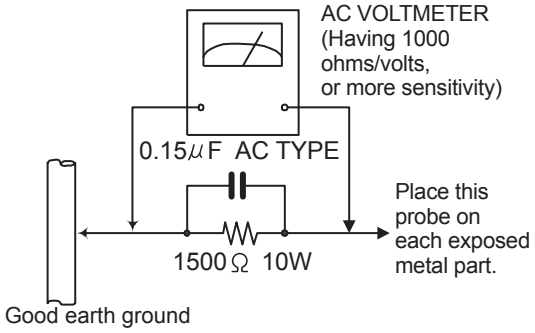
(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the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

(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.
(2) Any unauthorised design alterations or additions will void the manufacturer's guarantee; furthermore the manufacturer cannot accept responsibility for personal injury or property damage resulting therefrom.
(3) Essential safety critical components are identified by (⚠) on the Parts List and by shading on the schematics, and must never be replaced by parts other than those listed in the manual. Please note however that many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection. Parts other than specified by the manufacturer may not have the same safety characteristics as the recommended replacement parts shown in the Parts List of the Service Manual and 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 re-assembling.

1.5.1 Warning

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

⚠ ***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.**

1.6 Preventing static electricity

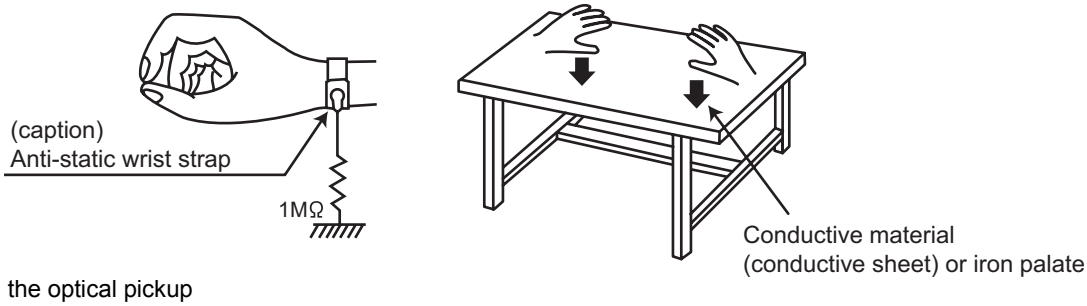
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.6.1 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.

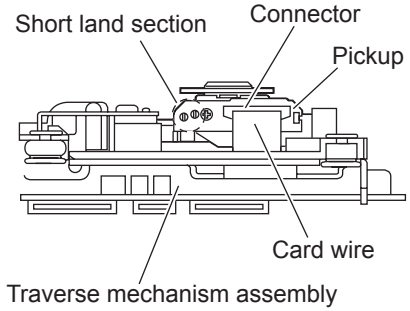
1.7 Handling the traverse unit (optical pickup)

(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.

1.8 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.



1.9 Important for laser products

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The CD,MD and DVD player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure.

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated.
AVOID DIRECT EXPOSUREBTO BEAM.

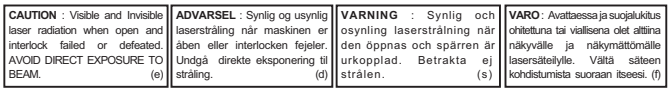
ADVARSEL : Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling.

VARNING : Synlig och osynlig laserstråling när den öppnas och spärren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL



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 metal cover (See Figs.1 to 4)

(1) From the both sides of the main body, remove the four screws **A** attaching the metal cover. (See Figs.1 and 2.)
(2) From the back side of the main body, remove the five screws **B** attaching the metal cover. (See Fig.3.)
(3) Lift the rear section of the metal cover in the direction of the arrow while extending the lower sections of the metal cover, release the claws a using a longer screwdriver from the inside as required. (See Fig.4.)

Note:

Do not damage any parts and boards inside the main body when releasing the joints **a** using the longer screwdriver. (See Fig.4.)

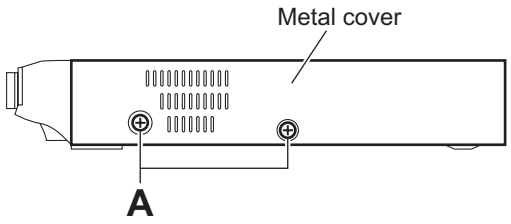


Fig.1

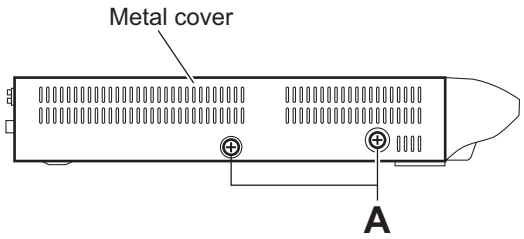


Fig.2

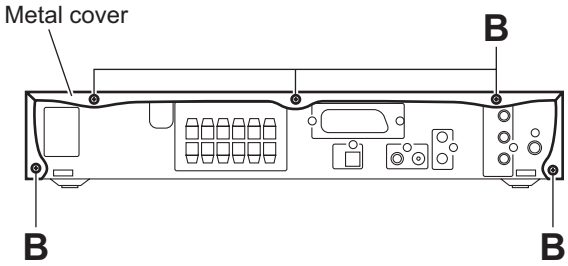


Fig.3

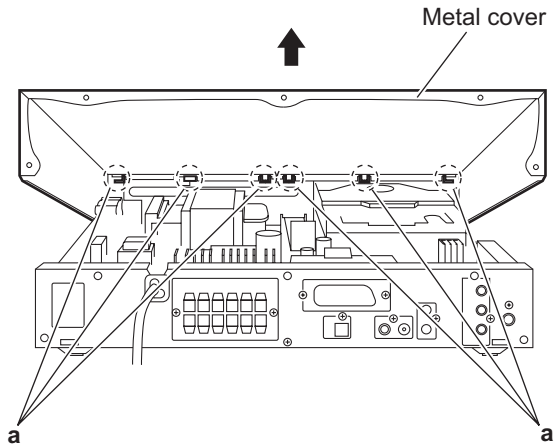


Fig.4

3.1.2 Removing the front panel assembly (See Figs.5 to 7)

- Remove the metal cover.

(1) From the right side of the DVD mechanism assembly, push the slide cam and pull the tray assembly out of the main body in the direction of the arrow. (See Fig.5.)

(2) From the front side of the main body, remove the CD fitting assembly from the tray assembly in the direction of the arrow and push in the tray assembly as before. (See Fig.6.)

(3) From the top side of the main body, disconnect the card wire from the connector CN428 on the main board. (See Fig.5.)

Reference:

When reassembling, connect the card wire to the connector CN428 on the main board after passing it through the lower part of the holder board. (See Fig.5.)

(4) Disconnect the card wire from the connectors CN454 on the HP terminal board. (See Fig.5.)

(5) From the bottom side of the main body, remove the three screws **C** attaching the front panel assembly. (See Fig.7.)

(6) From the both and bottom sides of the main body, remove the front panel assembly in the direction of the arrow while releasing the engagement sections **b** and **c**. (See Fig.7.)

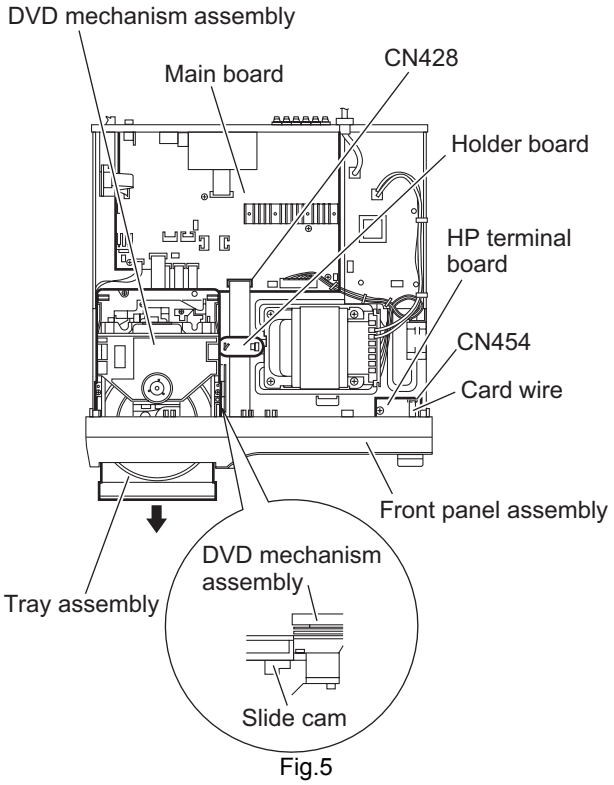


Fig.5

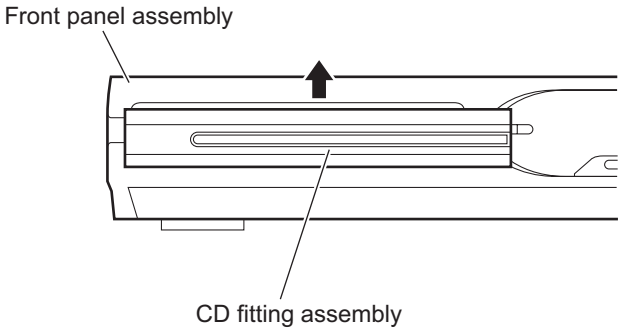


Fig.6

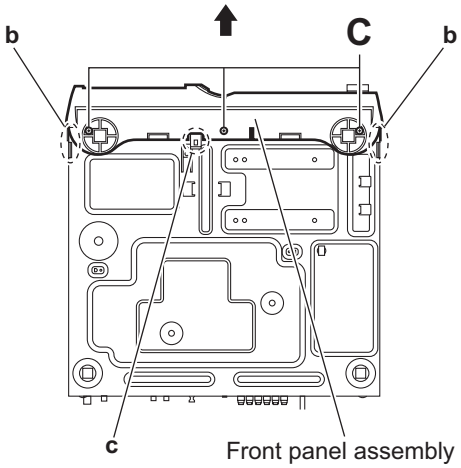


Fig.7

3.1.3 Removing the DVD mechanism assembly (See Figs.5,6 and 8)

- Remove the metal cover.
  (1) From the right side of the DVD mechanism assembly, push the slide cam and pull the tray assembly out of the main body in the direction of the arrow. (See Fig.5.)
  (2) From the front side of the main body, remove the CD fitting assembly from the tray assembly in the direction of the arrow and push in the tray assembly as before. (See Fig.6.)
  (3) From the top side of the main body, disconnect the card wires from the connectors (CN422 to CN426) on the main board. (See Fig.8.)
  (4) Disconnect the wire from the connector CN430 on the main board. (See Fig.8.)
  (5) Remove the three screws **D** attaching the DVD mechanism assembly on the chassis base. (See Fig.8.)

Reference:

When attaching the DVD mechanism assembly, align the holes of the chassis base to the projections **d** of the DVD mechanism assembly. (See Fig.8.)

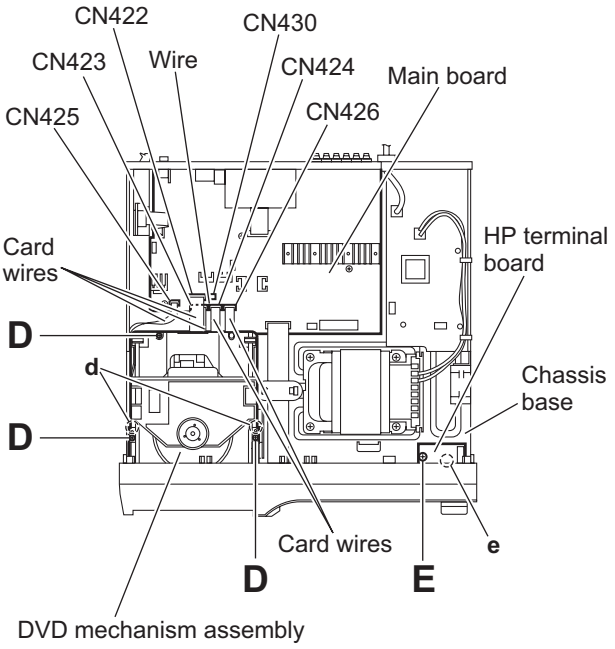


Fig.8

3.1.4 Removing the HP terminal board (See Fig.8)

- Remove the metal cover and front panel assembly.
  (1) From the top side of the main body, remove the screw **E** attaching the HP terminal board on the chassis base.
  (2) Take out the HP terminal board from the main body.

Reference:

When attaching the HP terminal board, align the hole on the HP terminal board to the projection **e** of the chassis base before attaching the screw **E**.

3.1.5 Removing the rear panel (See Fig.9)

- Remove the metal cover.
  (1) From the back side of the main body, remove the strain relief attaching the power cord in the direction of the arrow.
  (2) Remove the eight screws **F** and two screws **F'** attaching the rear panel. **[B/E/EN/EV/EE version]**
  (3) Remove the eight screws **F** attaching the rear panel. **[A version]**
  (4) Release the engagement sections **f** and remove the rear panel from the main body.

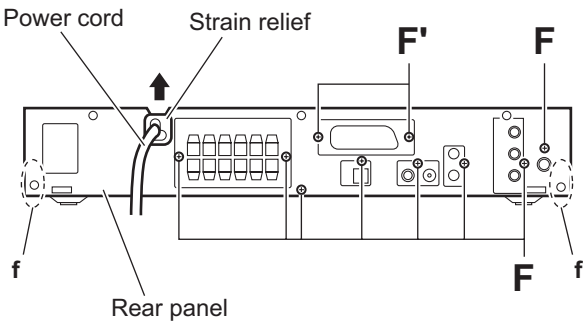


Fig.9

3.1.6 Removing the tuner assembly (See Figs.10 and 11)

- Remove the metal cover.
  (1) From the top side of the main body, disconnect the card wire from the connector CN1 on the tuner assembly. (See Fig.10.)
  (2) From the back side of the main body, remove the screw **G** attaching the tuner assembly to the rear panel. (See Fig.11.)
  (3) Take out the tuner assembly from the main body.

3.1.7 Removing the scart terminal board [B/E/EN/EV/EE version] (See Figs.10 and 11)

- Remove the metal cover.
  (1) From the top side of the main body, disconnect the card wire from the connector CN340 on the scart terminal board. (See Fig.10.)
  (2) From the back side of the main body, remove the two screws **H** attaching the scart terminal board to the rear panel. (See Fig.11.)
  (3) Take out the scart terminal board from the main body.

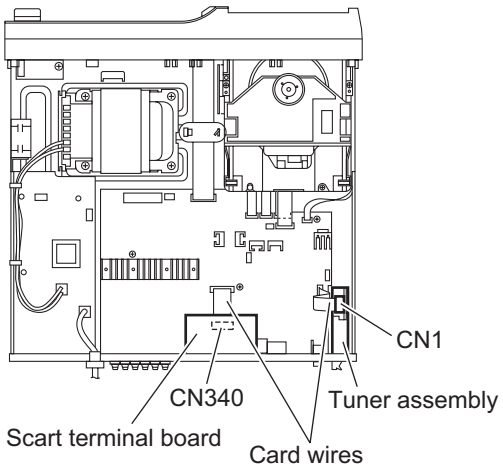


Fig.10

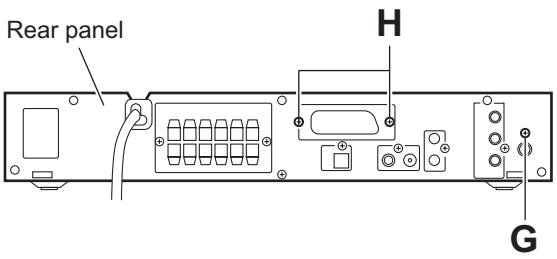


Fig.11

3.1.8 Removing the main board (See Figs.12 and 13)

- Remove the metal cover.

(1) From the top side of the main body, disconnect the card wires from the connectors (CN341, CN422 to CN428) on the main board. **[B/E/EN/EV/EE version]** (See Fig.12.)

(2) From the top side of the main body, disconnect the card wires from the connectors (CN422 to CN428) on the main board. **[A version]** (See Fig.12.)

(3) Disconnect the wires from the connectors (CN190, CN430, CN901) on the main board. (See Fig.12.)

Reference:

After connecting the wires to the connectors (CN190, CN901), fix the wires with the wire holder. (See Fig.12.)

(4) Disconnect the power cord and wire from the connectors (CN950, CN953) on the transformer board. (See Fig.12.)

(5) Remove the three screws **J** and screw **J'** attaching the main board on the chassis base. (See Fig.12.)

Reference:

When attaching the screw **J'**, attach the wire holder with it. (See Fig.12.)

(6) From the back side of the main body, remove the six screws **K** attaching the main board to the rear panel. (See Fig.13.)

(7) Release the engagement sections **g** and remove the rear panel together with the scart terminal board and tuner assembly. (See Fig.13.)

(8) Take out the main board from the main body.

Reference:

When attaching the main board, align the hole on the main board to the projections **h** of the chassis base before attaching the screws **J** and **J'**. (See Fig.12.)

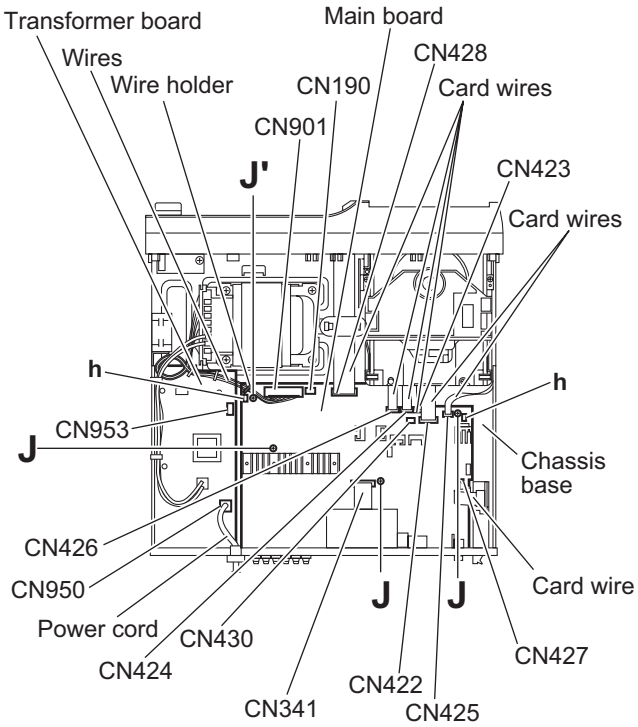


Fig.12

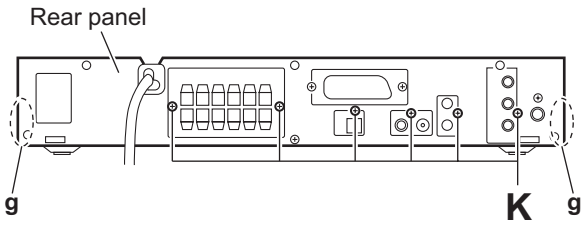


Fig.13

3.1.9 Removing the heat sink
(See Fig.14)

- Remove the metal cover and main board.
  From the reverse side of the main board, remove the four screws **L** attaching the heat sink.

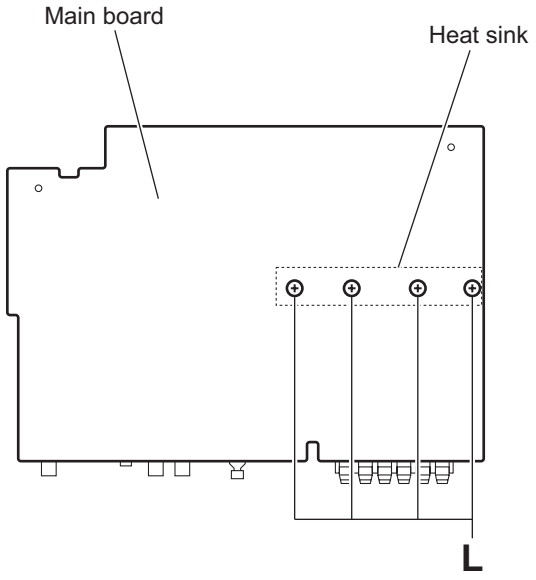


Fig.14

3.1.10 Removing the transformer board
(See Fig.15)

- Remove the metal cover.
  (1) From the top side of the main body, disconnect the wires from the connectors (CN952, CN953) on the transformer board.
  (2) Disconnect the power cord from the connector CN950 on the transformer board.
  (3) Remove the wire holders bundling the wires.

  Reference:
  After attaching the transformer board, bundle the wires with the wire holders as before.
  (4) Remove the two screws **M** and screw **M'** attaching the transformer board.

  Reference:
  When attaching the screw **M'**, attach the shield with it as before.
  (5) Release the holder using a pliers and take out the transformer board from the main body.

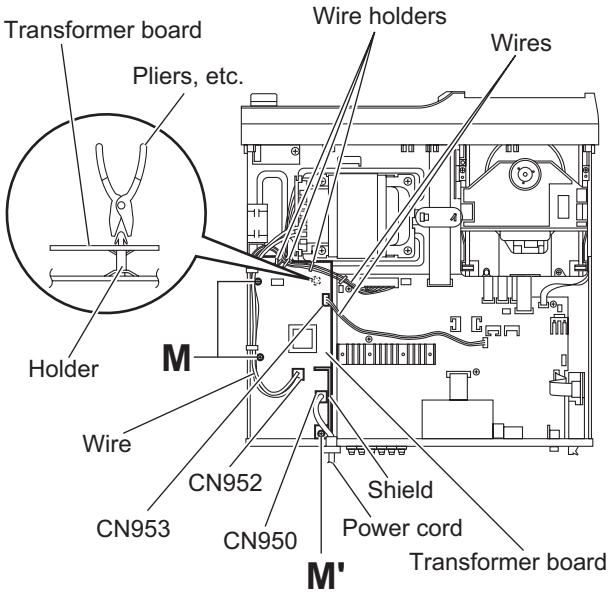


Fig.15

3.1.11 Removing the power transformer (See Fig.16)

- Remove the metal cover.

(1) From the top side of the main body, remove the tie bands and wire holders bundling the wires.

(2) Disconnect the wire from the connector CN952 on the transformer board.

(3) Disconnect the wire from the connector CN901 on the main board.

Reference:

After connecting the wires to the connector, bundle the wires with the wire holders and new tie bands as before.

(4) Remove the four screws **N** and take out the power transformer from the main body.

3.1.12 Removing the fan motor (See Figs.16 and 17)

- Remove the metal cover.

(1) From the top side of the main body, remove the wire holders bundling the wires. (See Fig.16.)

(2) Disconnect the wire from the connector CN190 on the main board. (See Fig.16.)

(3) From the right side of the main body, remove the two screws **P** and take out the fan motor from the chassis base. (See Fig.17.)

Reference:

After connecting the wire to the connector CN190, bundle the wires with the wire holders as before. (See Fig.16.)

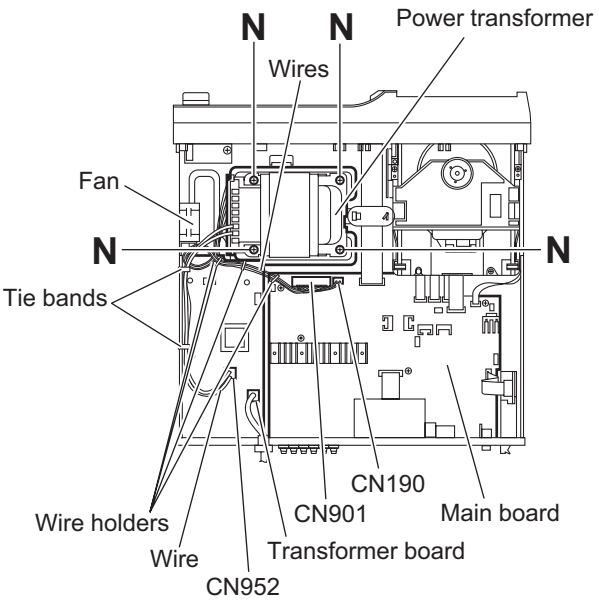


Fig.16

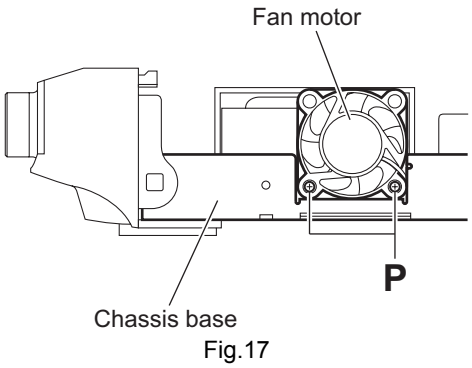


Fig.17

3.1.13 Removing the front board and LED illuminate board (See Figs.18 to 20)

- Remove the metal cover and front panel assembly.

(1) From the front side of the front panel assembly, pull out the volume knob in the direction of the arrow. (See Fig.18.)

(2) From the inside of the front panel assembly, remove the six screws **Q** attaching the front board. (See Fig.19.)

(3) Take out the front board from the front panel assembly.

Reference:

When attaching the front board, align the projections **i** of the front panel assembly to the holes of the front board. (See Fig.19.)

(4) From the forward side of the front board, disconnect the LED illuminate board from the connector CN451 on the front board. (See Fig.20.)

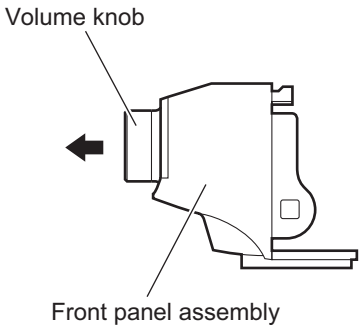


Fig.18

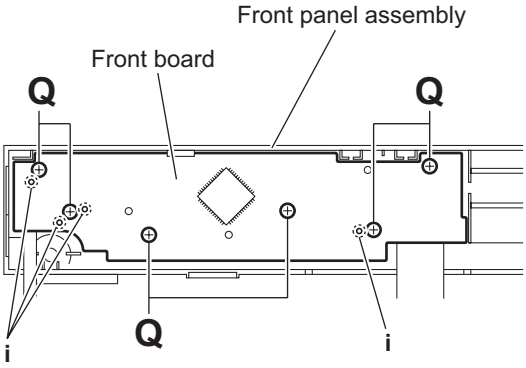


Fig.19

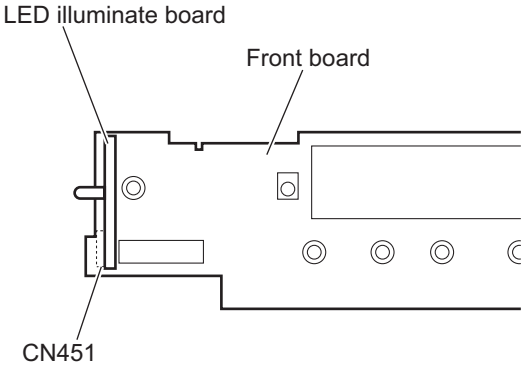


Fig.20

3.2 DVD mechanism section

- Remove the DVD mechanism assembly from the main body. (See "3.1.3 Removing the DVD mechanism assembly".)

3.2.1 Removing the tray assembly (See Figs.1 to 3)

(1) From the right side of the DVD mechanism assembly, push the slide cam and pull the tray assembly out of the DVD mechanism assembly in the direction of the arrow. (See Fig.1.)
(2) From the top side of the DVD mechanism assembly, remove the two screws **A** attaching the leaf spring to the bushing and remove the leaf spring. (See Fig.2.)
(3) Remove the bushing of the tray assembly from the projection **a** on the DVD mechanism assembly and move the tray assembly in the direction of the arrow. (See Fig.3.)
(4) Remove the claw **b** of the tray assembly from the DVD mechanism assembly and take out the tray assembly. (See Fig.3.)

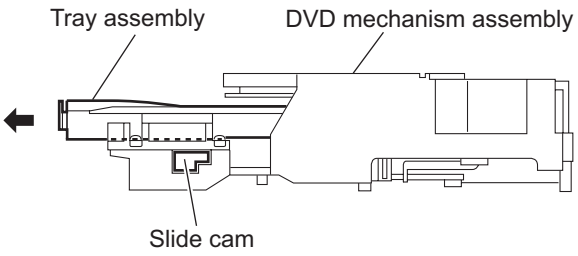


Fig.1

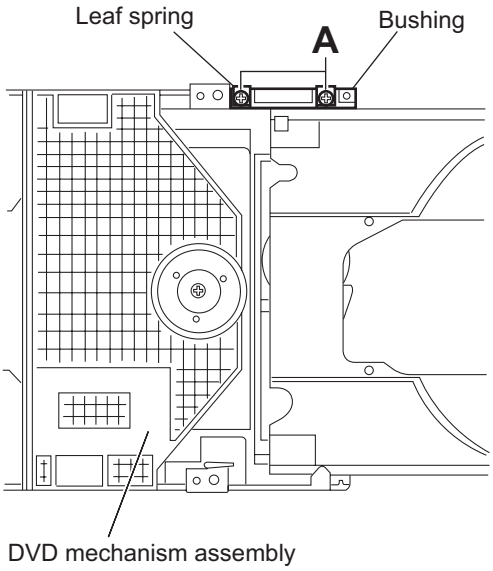


Fig.2

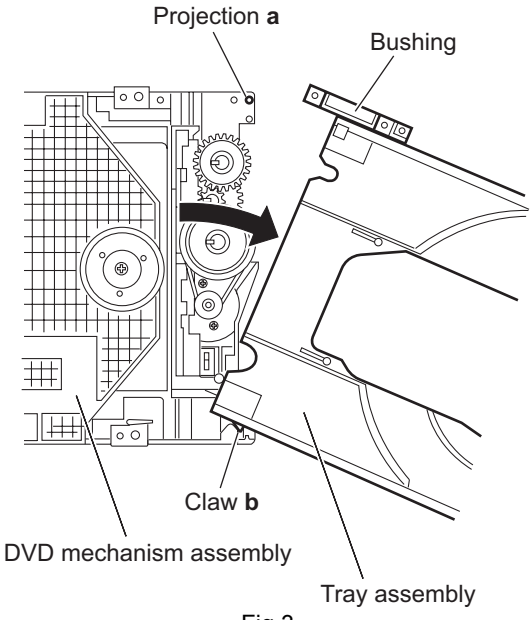


Fig.3

3.2.2 Removing the traverse mechanism assembly (See Figs.4)

From the bottom side of the DVD mechanism assembly, remove the three screws **B** and screw **B'** attaching the traverse mechanism assembly and take out the DVD traverse mechanism assembly with the DVD servo board.

Reference:

When attaching the screw **B'**, attach the washer with it.

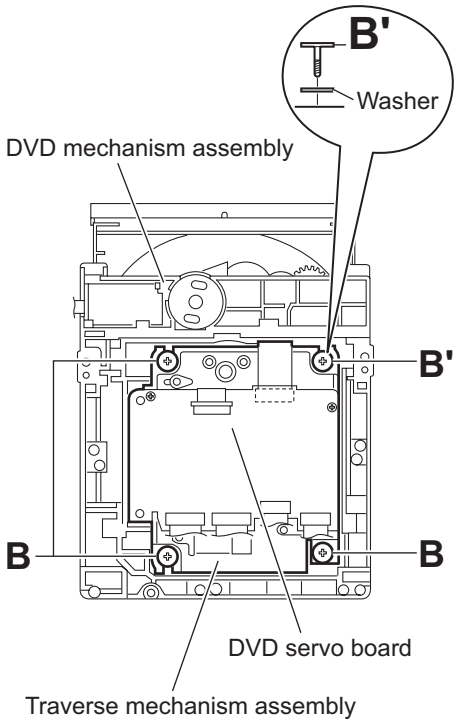


Fig.4

3.2.3 Removing the DVD servo board (See Figs.5 and 6)

- Remove the traverse mechanism assembly.
  (1) From the side of the traverse mechanism assembly, solder the short land sections **c** on the pickup. (See Fig.5.)
  (2) From the bottom side of the traverse mechanism assembly, release the lock of the connector CN101 on the DVD servo board in the direction of the arrow 1 and disconnect the card wire. (See Fig.6.)

  Caution:
  - Solder the short land sections **c** on the pickup before disconnecting the card wire from the connector CN101 on the DVD servo board. If the card wire is disconnected without attaching solder, the pickup may be destroyed by static electricity. (See Figs.5 and 6.)
  - When attaching the DVD servo board, be sure to remove solders from the short land sections **c** after connecting the card wire to the connector CN101 on the DVD servo board. (See Figs.5 and 6.)

  (3) Disconnect the card wire from the connector CN201 on the DVD servo board. (See Fig.6.)
  (4) Remove the two screws **C** attaching the DVD servo board. (See Fig.6.)
  (5) Remove the DVD servo board from the engagement section **d** in an upward and remove the engagement section **f** in the direction 3 while removing the engagement section **e** in the direction of the arrow 2. (See Fig.6.)

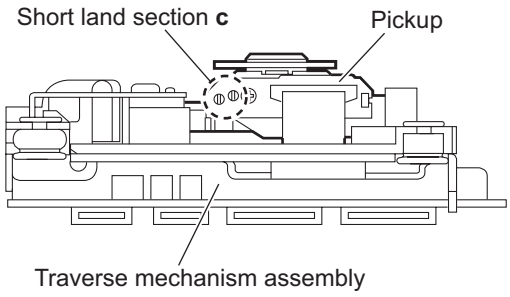


Fig.5

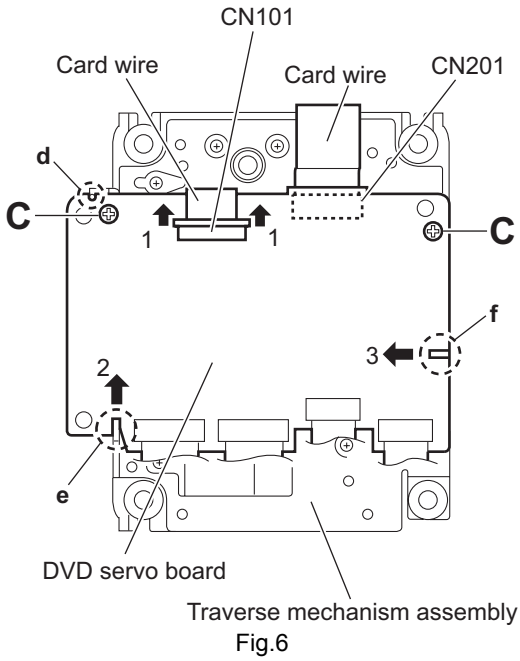


Fig.6

3.2.4 Removing the pickup (See Figs.5,7 to 9)

- Remove the traverse mechanism assembly.
  (1) From the side of the traverse mechanism assembly, solder the short land sections **c** on the pickup. (See Fig.5.)
  (2) Release the lock of the connector on the pickup in the direction of the arrow and disconnect the card wire. (See Fig.7.)

  Caution:
  - Solder the short land sections **c** 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.5 and 7.)
  - When attaching the pickup, be sure to remove solders from the short land sections **c** after connecting the card wire to the connector on the pickup. (See Figs.5 and 7.)

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

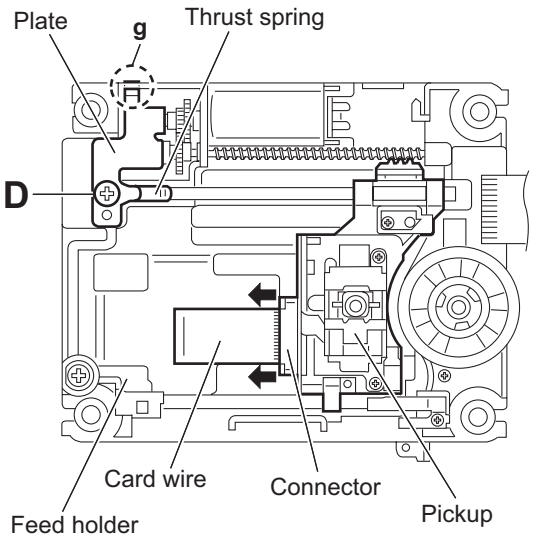


Fig.7

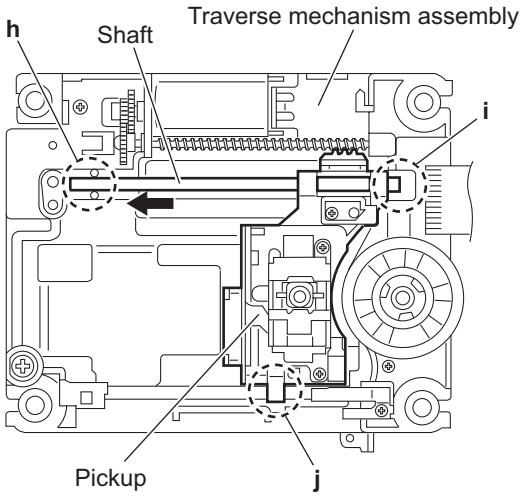


Fig.8

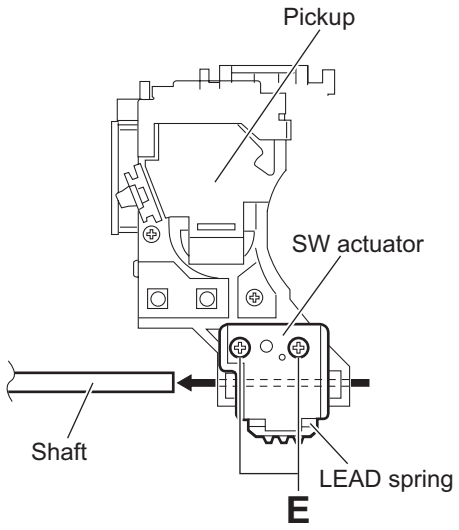


Fig.9

3.2.5 Attaching the pickup (See Figs.5,7 to 10)

- See "3.2.4 Removing the pickup".
  (1) Attach the shaft, SW actuator and LEAD spring to the pickup. (See Fig.9.)
  (2) Align the pickup to the section **j** of the traverse mechanism assembly first, and set the both ends of the shaft of the pickup in the sections **g** and **i** of the traverse mechanism assembly. (See Fig.8.)
  (3) Attach the plate and thrust spring. (See Fig.7.)
  (4) Remove solders from the short land sections **c** after connecting the card wire to the connector on the pickup. (See Figs.5 and 7.)
  (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.10.)

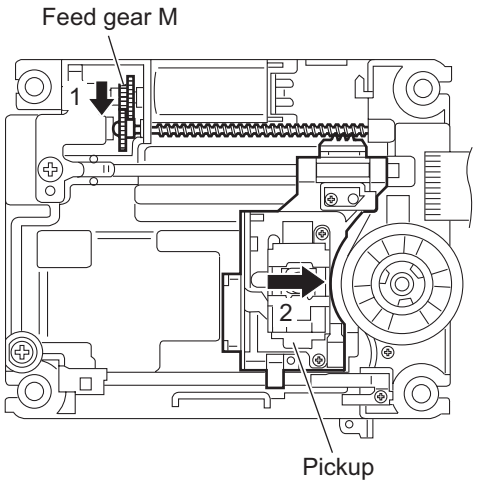


Fig.10

3.2.6 Removing the feed motor (See Figs.7,11 and 12)

- Remove the traverse mechanism assembly.
  (1) From the top side of the traverse mechanism assembly, remove the screw **D** attaching the plate and thrust spring. (See Fig.7.)
  (2) Remove the engagement section **g** attaching the plate to the feed holder and remove the plate with the thrust spring. (See Fig.7.)
  (3) Remove the wires from the soldered section **k** on the spindle motor board. (See Fig.11.)

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

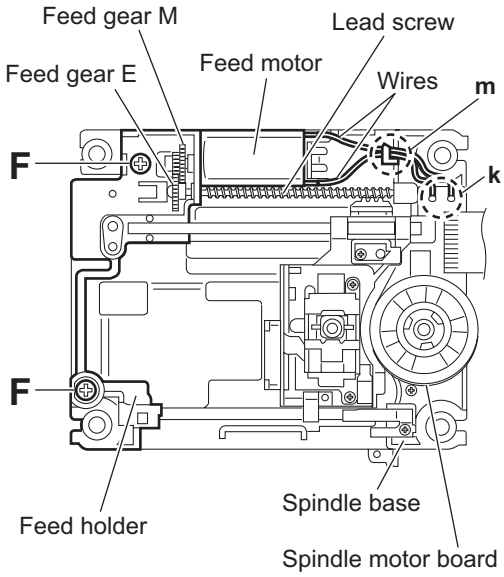


Fig.11

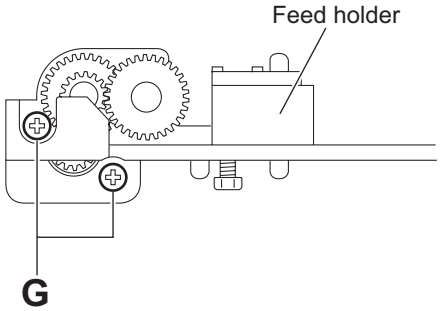


Fig.12

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

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

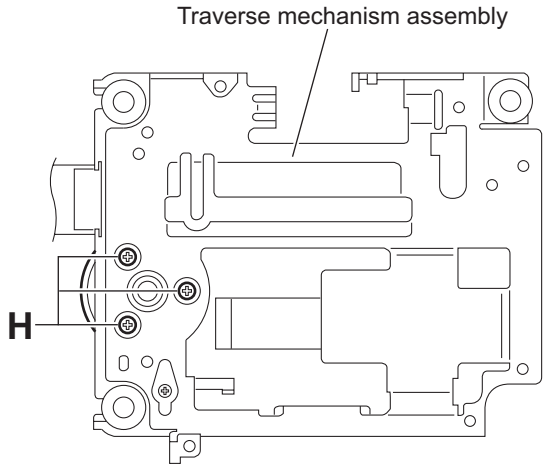


Fig.13

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

(1) From the bottom side of the DVD mechanism assembly, remove the wires from the soldered section **n** on the switch board.
(2) Lift the switch board while pressing the claw **p** of the DVD mechanism assembly in the direction of the arrow and remove it from the section **q**.

Reference:

- Put the wires on the section **r** after attaching the switch board to the DVD mechanism assembly.
- Fix the claw **p** on the DVD mechanism assembly with bonds after attaching the switch board.

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

- Remove the tray assembly.
  (1) From the bottom side of the DVD mechanism assembly, remove the wires from the soldered section **n** 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 **J** 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 **r** after attaching the motor to the DVD mechanism assembly. (See Fig.14.)

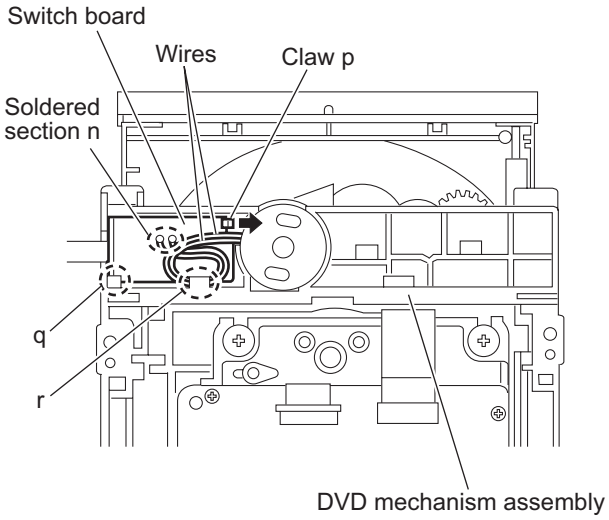


Fig.14

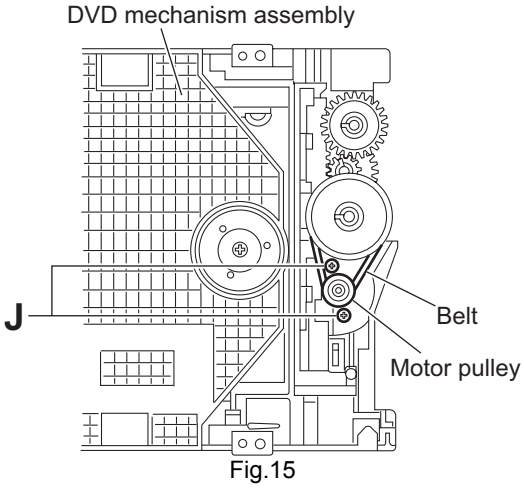


Fig.15

3.3 Subwoofer section

3.3.1 Removing the cloth frame assembly (See Fig.1)

(1) From the right side of the subwoofer main body, release the joints **a** to remove the cloth frame assembly.
(2) Remove the cloth frame assembly from the subwoofer main body.

Reference:

When attaching the cloth frame assembly, apply the bonds to the claws a of the cloth frame assembly.

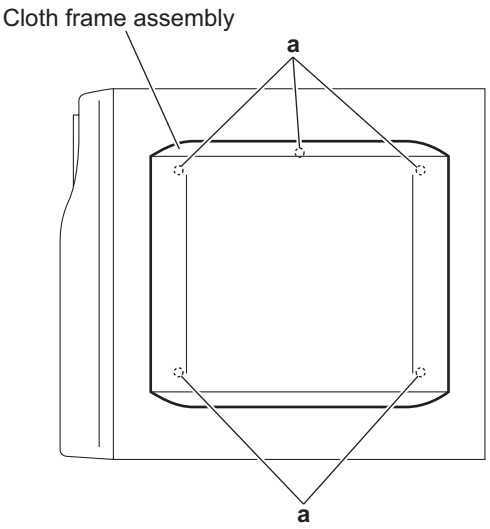


Fig.1

3.3.2 Removing the woofer unit (See Figs.2 and 3)

• Remove the cloth frame assembly.
(1) Remove the four screws **A** attaching the woofer unit. (See Fig.2.)
(2) Take out the woofer unit from the subwoofer main body.
(3) From the back side of the woofer unit, disconnect the wire from the terminal. (See Fig.3.)

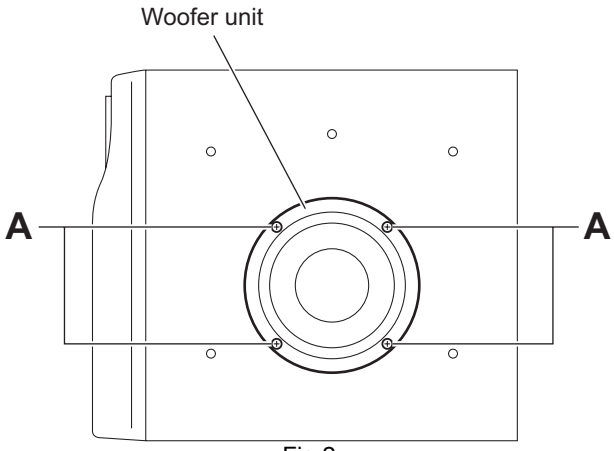


Fig.2

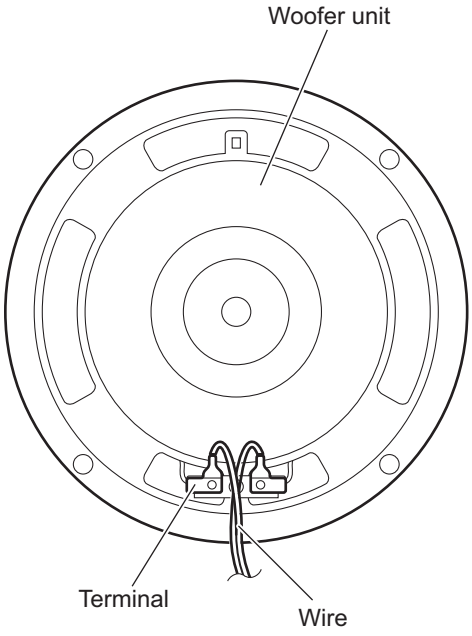


Fig.3

SECTION 4
ADJUSTMENT

4.1 Special mode

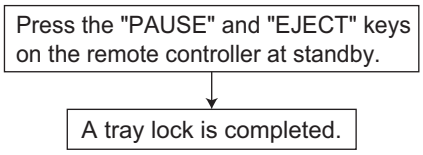
4.1.1 Outline

The contents in the special mode of operation, and the definition of a key (remote controller or main unit)

4.1.2 Special mode

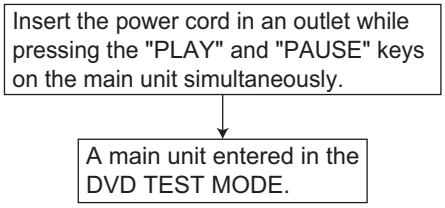
(1) TRAYLOCK

A loader mechanism's tray lock is carried out.
In the tray lock function ON state, EJECT processing is not performed to the EJECT key.
And, a LOCK display is performed at this time. (___LOCKED___/_UNLOCKED_)
When it turns off a tray lock function, STOP and EJECT KEY are pushed simultaneously again.
Back up ON/OFF of a tray lock.



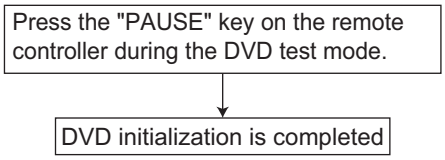
(2) DVD TEST MODE

It goes into the TEST mode of DVD.
Refer to the DVD specifications for the contents performed in TEST mode.
DVD test mode is canceled by except DVD source, and POWER OFF.
It is referring to the "4.2 DVD test mode" for details.



(3) DVD INITIALIZE

DVD is initialized.
The RDS segment of FL is made to turn on at the time of an initialization end.
It is referring to the "4.2 DVD test mode" for details.



(4) DVD region check mode

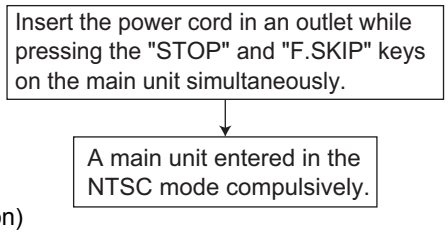
A region No. display is performed to FL by the toggle in DVD test mode.
It is referring to the "4.2 DVD test mode" for details.

(5) Compulsive NTSC mode

It is made compulsive NTSC mode.

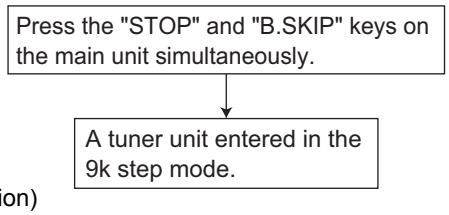
From this, with regards to the input of NTSEL_SW, there is nothing only at the time of 1st power on, and it performs NTSC starting. (Command specification is performed to a module.)

A mode clearance is performed by power off.



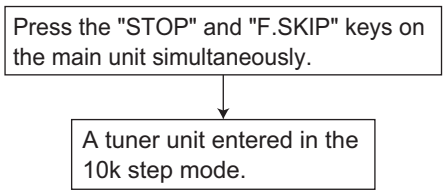
(6) TUNER AM 9k step SW (only U version)

AM frequency is changed with 9k STEP.



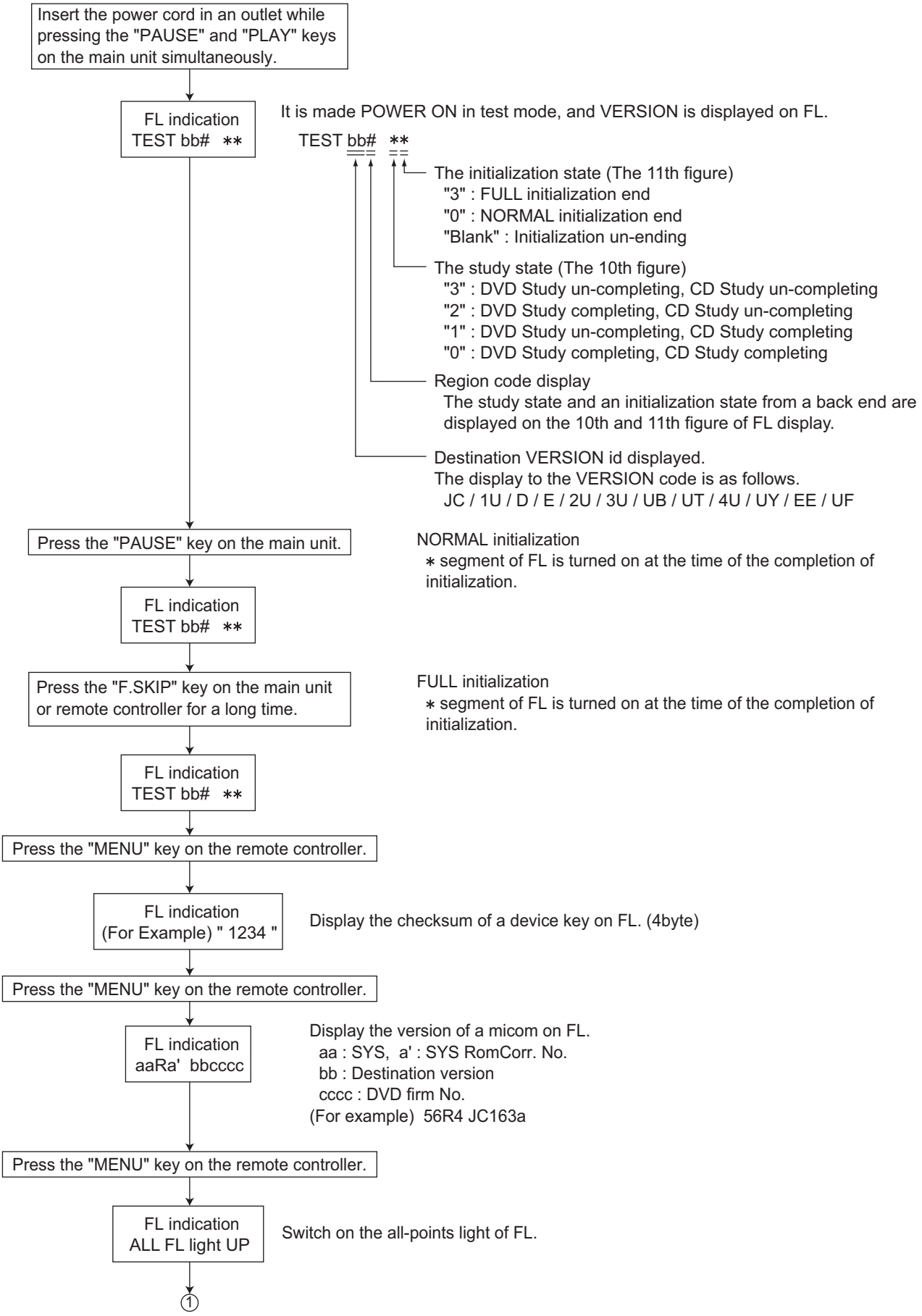
(7) TUNER AM 10k step SW (only U version)

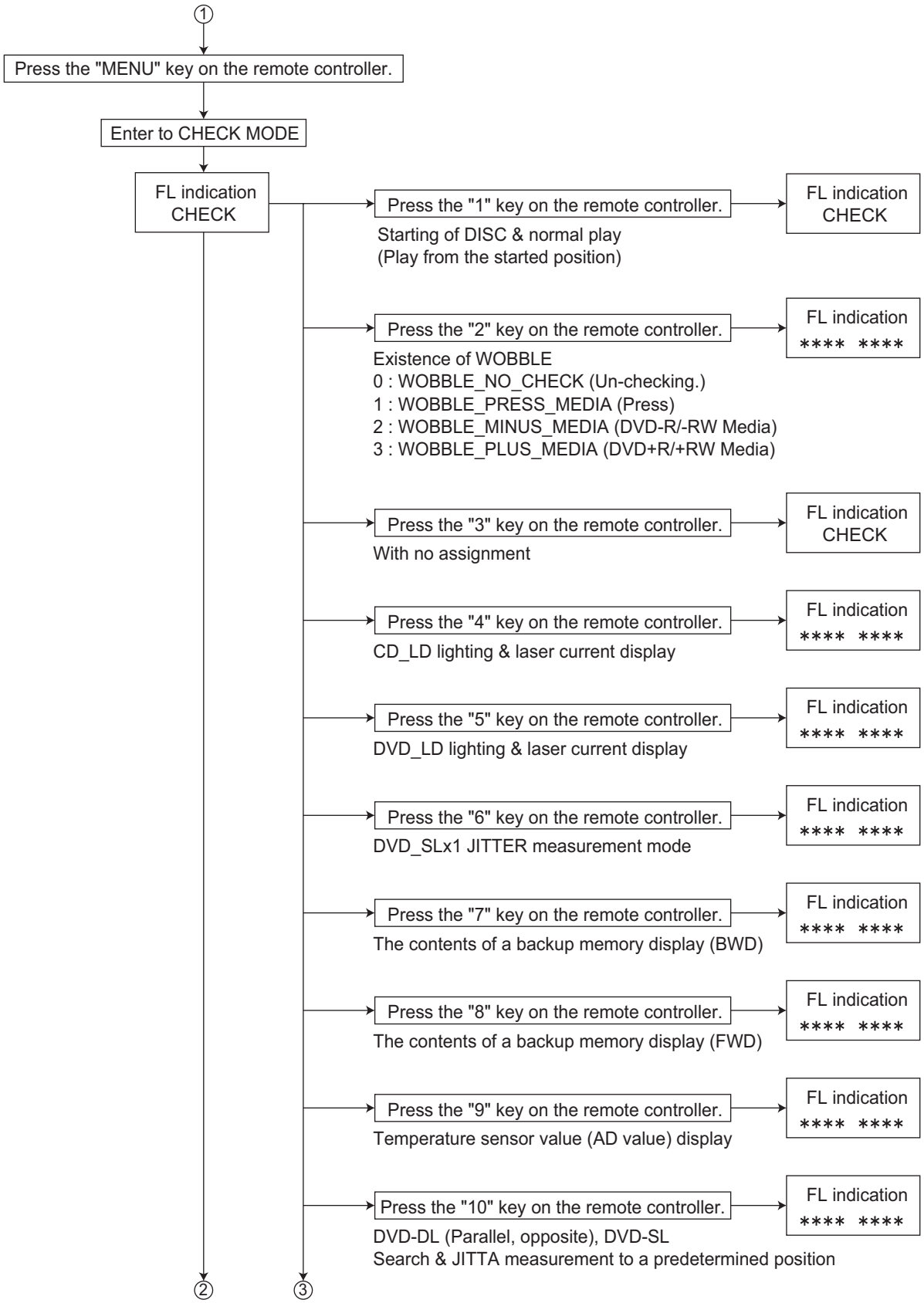
AM frequency is changed with 9k STEP.

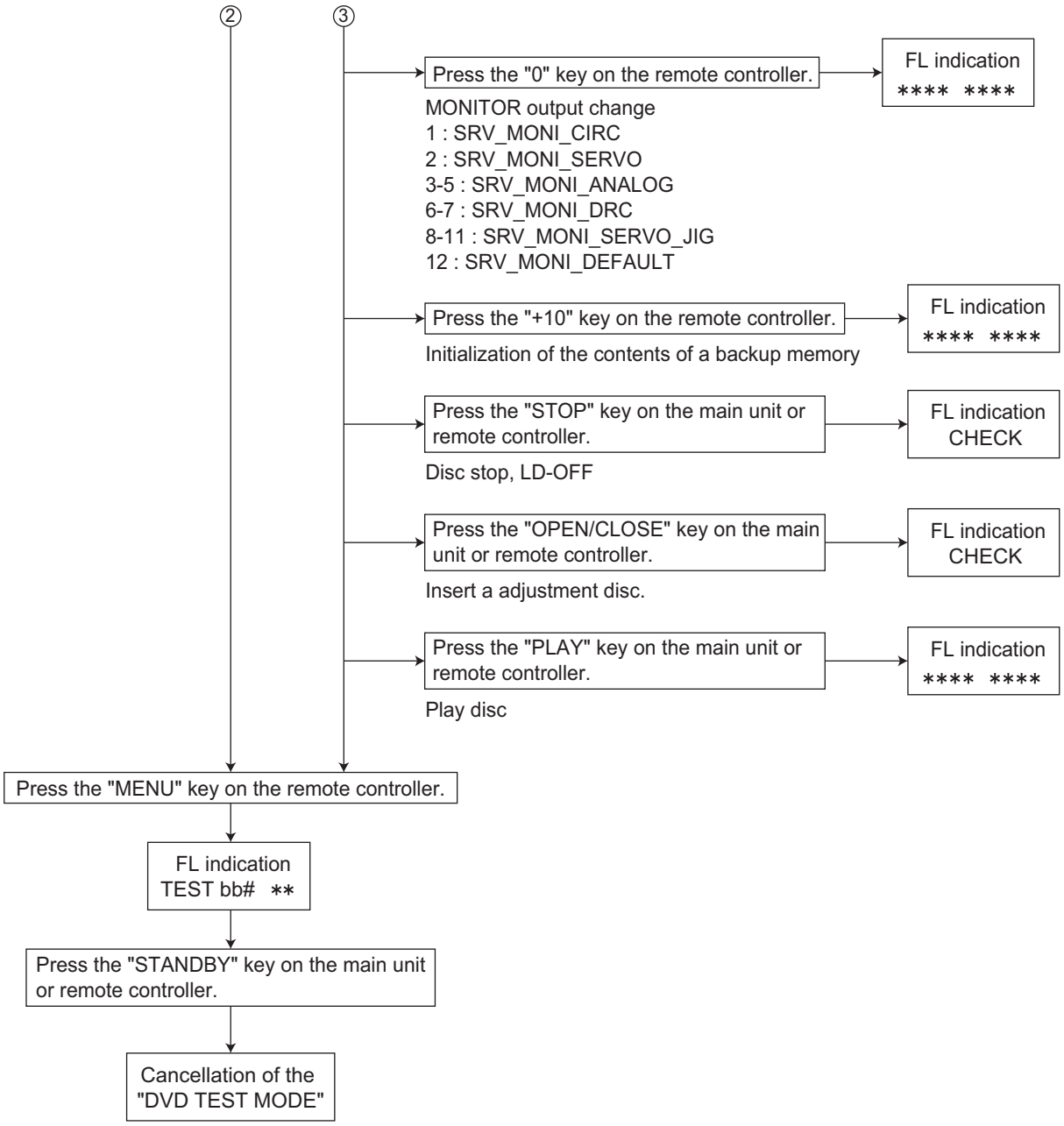


4.2 DVD TEST MODE

Refer to "4.2.2 Indication of FL display in the DVD test mode" as required




①
Press the "MENU" key on the remote controller.
Enter to CHECK MODE
FL indication CHECK
Press the "1" key on the remote controller.
FL indication CHECK
Starting of DISC & normal play
(Play from the started position)
Press the "2" key on the remote controller.
FL indication **** ****
Existence of WOBBLE
0 : WOBBLE_NO_CHECK (Un-checking.)
1 : WOBBLE_PRESS_MEDIA (Press)
2 : WOBBLE_MINUS_MEDIA (DVD-R/-RW Media)
3 : WOBBLE_PLUS_MEDIA (DVD+R/+RW Media)
Press the "3" key on the remote controller.
FL indication CHECK
With no assignment
Press the "4" key on the remote controller.
FL indication **** ****
CD_LD lighting & laser current display
Press the "5" key on the remote controller.
FL indication **** ****
DVD_LD lighting & laser current display
Press the "6" key on the remote controller.
FL indication **** ****
DVD_SLx1 JITTER measurement mode
Press the "7" key on the remote controller.
FL indication **** ****
The contents of a backup memory display (BWD)
Press the "8" key on the remote controller.
FL indication **** ****
The contents of a backup memory display (FWD)
Press the "9" key on the remote controller.
FL indication **** ****
Temperature sensor value (AD value) display
Press the "10" key on the remote controller.
FL indication **** ****
DVD-DL (Parallel, opposite), DVD-SL
Search & JITTA measurement to a predetermined position
②
③


②
③
Press the "0" key on the remote controller.
FL indication
**** ****
MONITOR output change
1 : SRV_MONI_CIRC
2 : SRV_MONI_SERVO
3-5 : SRV_MONI_ANALOG
6-7 : SRV_MONI_DRC
8-11 : SRV_MONI_SERVO_JIG
12 : SRV_MONI_DEFAULT
Press the "+10" key on the remote controller.
FL indication
**** ****
Initialization of the contents of a backup memory
Press the "STOP" key on the main unit or remote controller.
FL indication
CHECK
Disc stop, LD-OFF
Press the "OPEN/CLOSE" key on the main unit or remote controller.
FL indication
CHECK
Insert a adjustment disc.
Press the "PLAY" key on the main unit or remote controller.
FL indication
**** ****
Play disc
Press the "MENU" key on the remote controller.
FL indication
TEST bb# **
Press the "STANDBY" key on the main unit or remote controller.
Cancellation of the "DVD TEST MODE"

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.MB187)

Printed in Japan
WPC

PARTS LIST

[TH-S3]

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

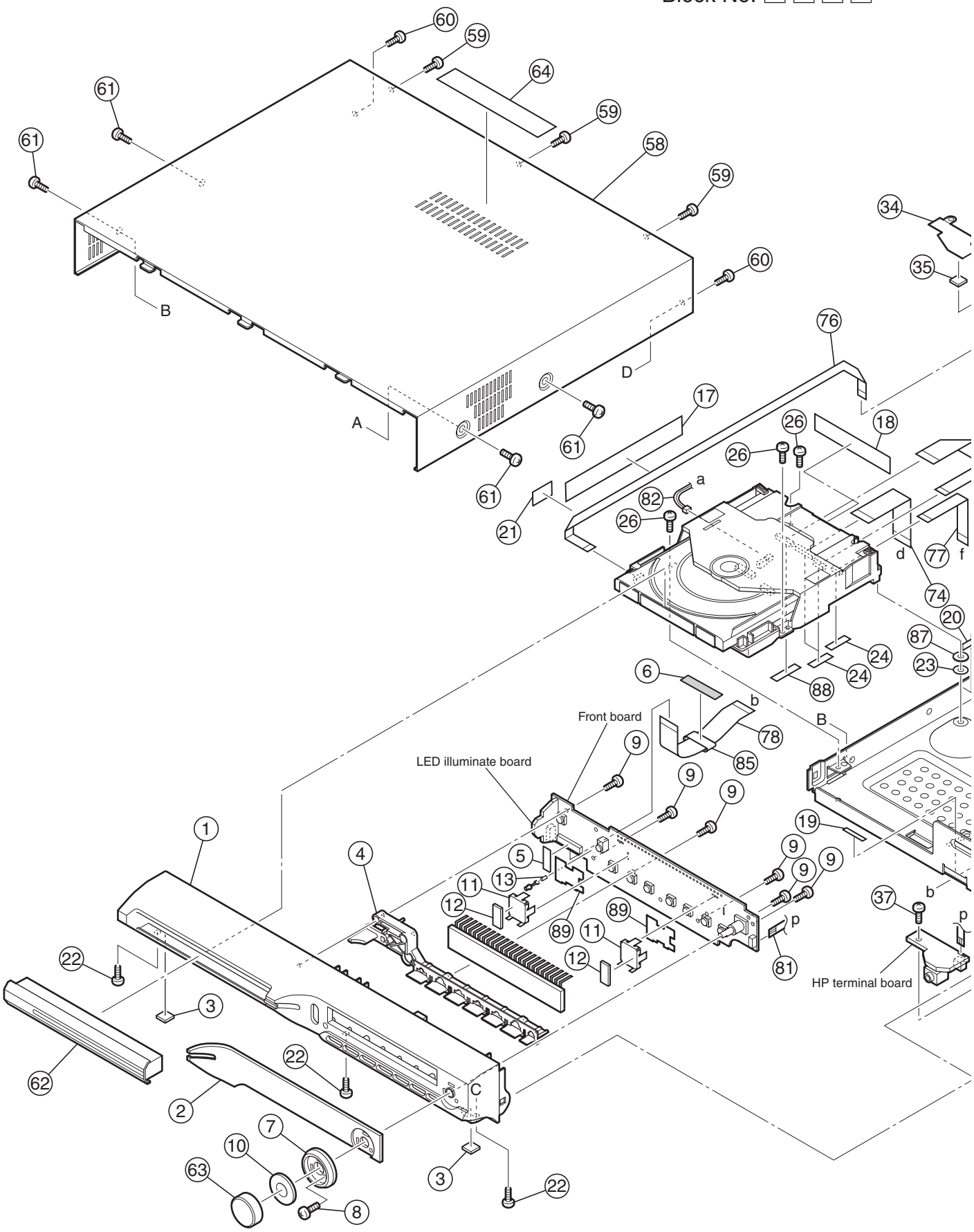
Area suffix

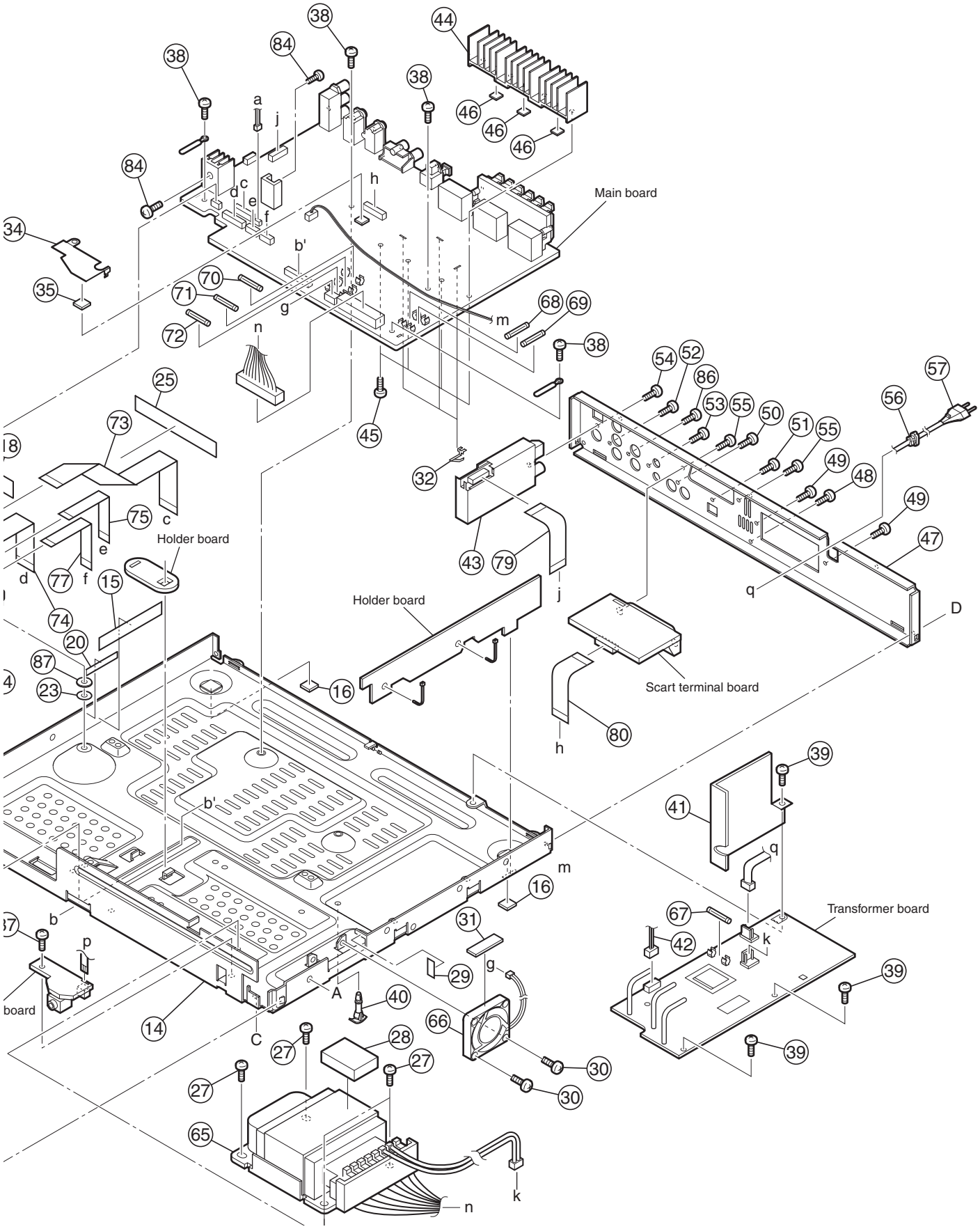
A ---------- Australia
B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe
EV ---------- Eastern Europe
EE --------- Russian Federation

- Contents -

Exploded view of general assembly and parts list

Block No. M 1 M M




Main board
Holder board
Holder board
Scart terminal board
Transformer board

General Assembly

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

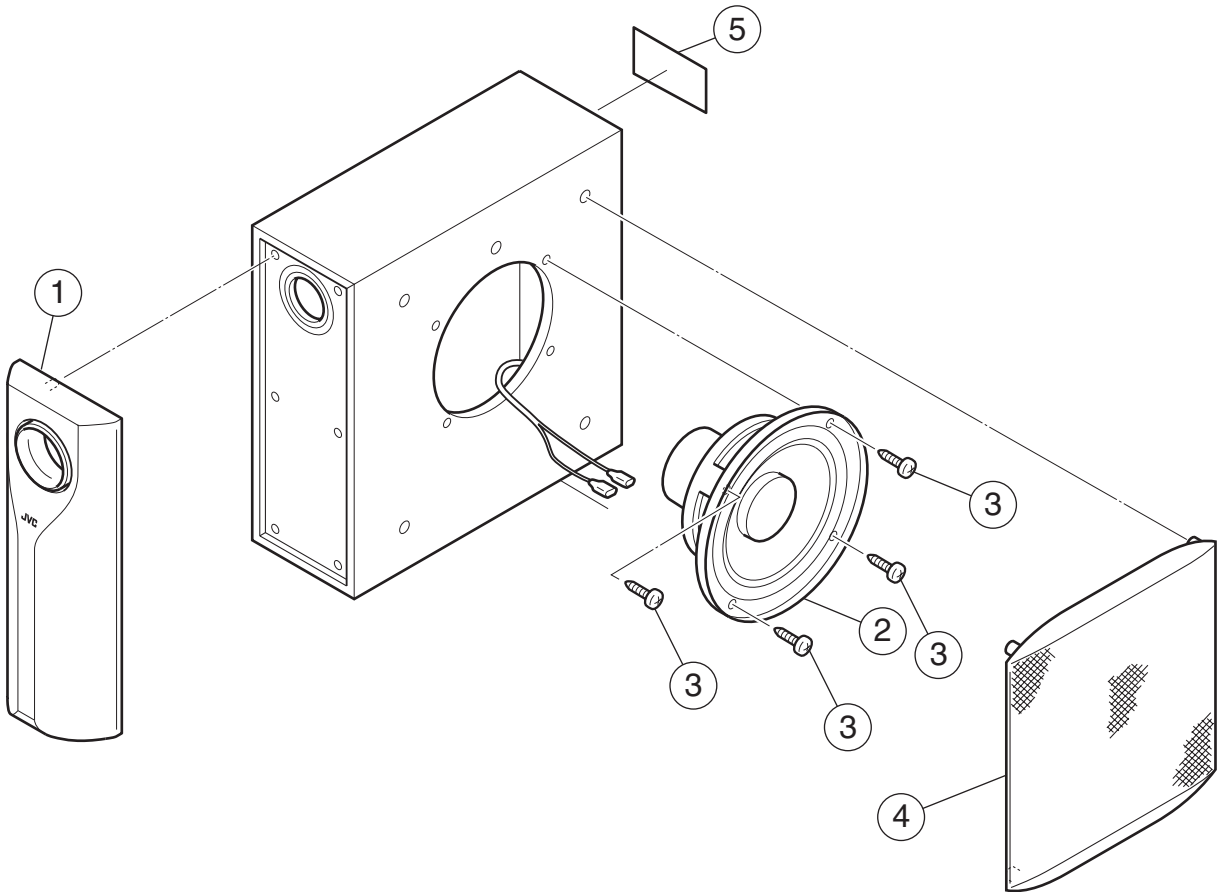
⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	GV10166-003A	FRONT PANEL		S3A
	1	GV10166-002A	FRONT PANEL		S3B,S3E,S3EE,S3EN,S3EV
	2	GV30519-004A	WINDOW LENS		
	3	LV40301-001A	FELT SPACER	(x2)	
	4	GV10167-001A	CONTROL BUTTON		
	5	GV40121-005A	SPACER		
	6	GV30349-028A	SPACER		
	7	GV30522-001A	VOL RING		
	8	QYSDSF2608Z	SCREW	2.6mm x 8mm	
	9	QYSDSF2608Z	SCREW	2.6mm x 8mm(x6)	
	10	GV40476-001A	VOL.SHEET		
	11	LV43659-001A	FL HOLDER	(x2)	
	12	GV30349-020A	FELT SPACER	(x2)	
	13	GV40531-001A	LED HOLDER		
	14	GV10168-002A	CHASSIS BASE		
	15	LV41843-002A	LASER CAUTION		
	16	LV40301-002A	FELT SPACER	(x2)	
	17	GV30349-032A	SPACER		
	18	GV30349-033A	SPACER		
	19	LV30225-011A	SPACER		
	20	GV30349-025A	SPACER		
	21	LV30225-035A	SPACER		
	22	QYSBSG3008Z	TAPPING SCREW	3mm x 8mm(x3)	
	23	LV30226-039A	SPACER		
	24	GV40121-005A	SPACER	(x3)	
	25	GV30349-028A	SPACER		
	26	QYSBST3010Z	TAPPING SCREW	3mm x 10mm(x3)	
	27	QYSDST4008Z	TAP SCREW	M4 x 8mm(x4)	
	28	GV30349-029A	SPACER		
	29	GV30349-026A	SPACER		
	30	QYSPSG3022Z	TAP SCREW	M3 x 22mm(x2)	
	31	GV30349-030A	SPACER		
	32	GV40525-001A	GROUND PLATE	(x3)	
	34	GV40529-001A	IC SHEILD		
	35	E3400-431	SPECER		
	37	QYSBSGG3008E	TAPPING SCREW	3mm x 8mm	
	38	QYSBST3006Z	TAPPING SCREW	3mm x 6mm(x4)	
	39	QYSBST3006Z	TAPPING SCREW	3mm x 6mm(x3)	
	40	GV40500-001A	HOLDER		
	41	GV40533-001A	SHIELD		
	42	GV40343-004A	VINYL TUBE		
	43	QAU0356-001	TUNER ASSY.	TU 1	
	44	GV40477-002A	HEATSINK		
	45	QYSDSG3012M	TAP SCREW	M3 x 12mm(x4)	
	46	GV40509-001A	THERMAL SHEET	(x3)	
	47	GV10169-036A	REAR PANEL		S3A
	47	GV10169-031A	REAR PANEL		S3EE
	47	GV10169-030A	REAR PANEL		S3B,S3E,S3EN
	47	GV10169-032A	REAR PANEL		S3EV
	48	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm	
	49	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm(x2)	
	50	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm	
	51	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm	
	52	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm	
	53	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm	
	54	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm	
	55	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm(x2)	S3B,S3E,S3EE,S3EN,S3EV
⚠	56	QZW0033-001	STRAIN RELIEF		
⚠	57	QMPG150-244-JC	POWER CORD(AST)	2.44m BLACK	S3A
⚠	57	QMPN150-200-JC	POWER CORD(EU)	2m BLACK	S3B
⚠	57	QMPK210-205-JN	POWER CORD(EU)	2.05m BLACK	S3E,S3EE,S3EN,S3EV
	58	GV10170-005A/S/	METAL COVER		
	59	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm(x3)	
	60	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm(x2)	
	61	E406308-004	SPECIAL SCREW	(x4)	
	62	GV30549-002A	CD FITTING ASSY		
	63	GV30521-001A	VOLUME KNOB		
	64	E409396-001	CAUTION LABEL		
⚠	65	QQT0442-005	POWER TRANSF	T 901	S3A
⚠	65	QQT0442-001	POWER TRANSF	T 901	S3B,S3E,S3EE,S3EN,S3EV
	66	QAR0329-001	FAN MOTOR		
⚠	67	QMF51W2-1R6-J8	FUSE	F 950 1.6A AC250V	
⚠	68	QMF51W2-6R3-J8	FUSE	F 901 6.3A AC250V	
⚠	69	QMF51W2-6R3-J8	FUSE	F 902 6.3A AC250V	

⚠	Symbol No.	Part No.	Part Name	Description	Local
⚠	70	QMF51W2-2R0-J8	FUSE	F 903 2A AC250V	
⚠	71	QMF51W2-2R0-J8	FUSE	F 904 2A AC250V	
⚠	72	QMF51W2-1R6-J8	FUSE	F 905 1.6A AC250V	
	73	WJU0008-002A	FFC SHIELD WIRE		
	74	QUQ110-1711AJ	FFC WIRE		
	75	QUQ110-0911AJ	FFC WIRE		
	76	QUQ110-0524AJ	FFC WIRE		
	77	QUQ110-0811AJ	FFC WIRE		
	78	QUQ110-2122AJ	FFC WIRE		
	79	QUQ412-1009CJ	FFC WIRE		
	80	QUQ412-1307CJ	FFC WIRE		S3B,S3E,S3EE,S3EN,S3EV
	81	QUQ412-0408DJ	FFC WIRE		
	82	QJJ060-031306	WIRE		
	84	QYSBSG3010Z	TAPPING SCREW	3mm x 10mm(x2)	
	85	QQR1516-001	FERRITE CORE		
	86	QYSBSGY3008M	SPECIAL SCREW	3mm x 8mm	S3A
	87	LV30226-041A	SPACER		
	88	GV40121-004A	SPACER		
	89	GV40536-001A	SPACER	(x2)	

Speaker assembly and parts list

Block No. M 2 M M

(Subwoofer)



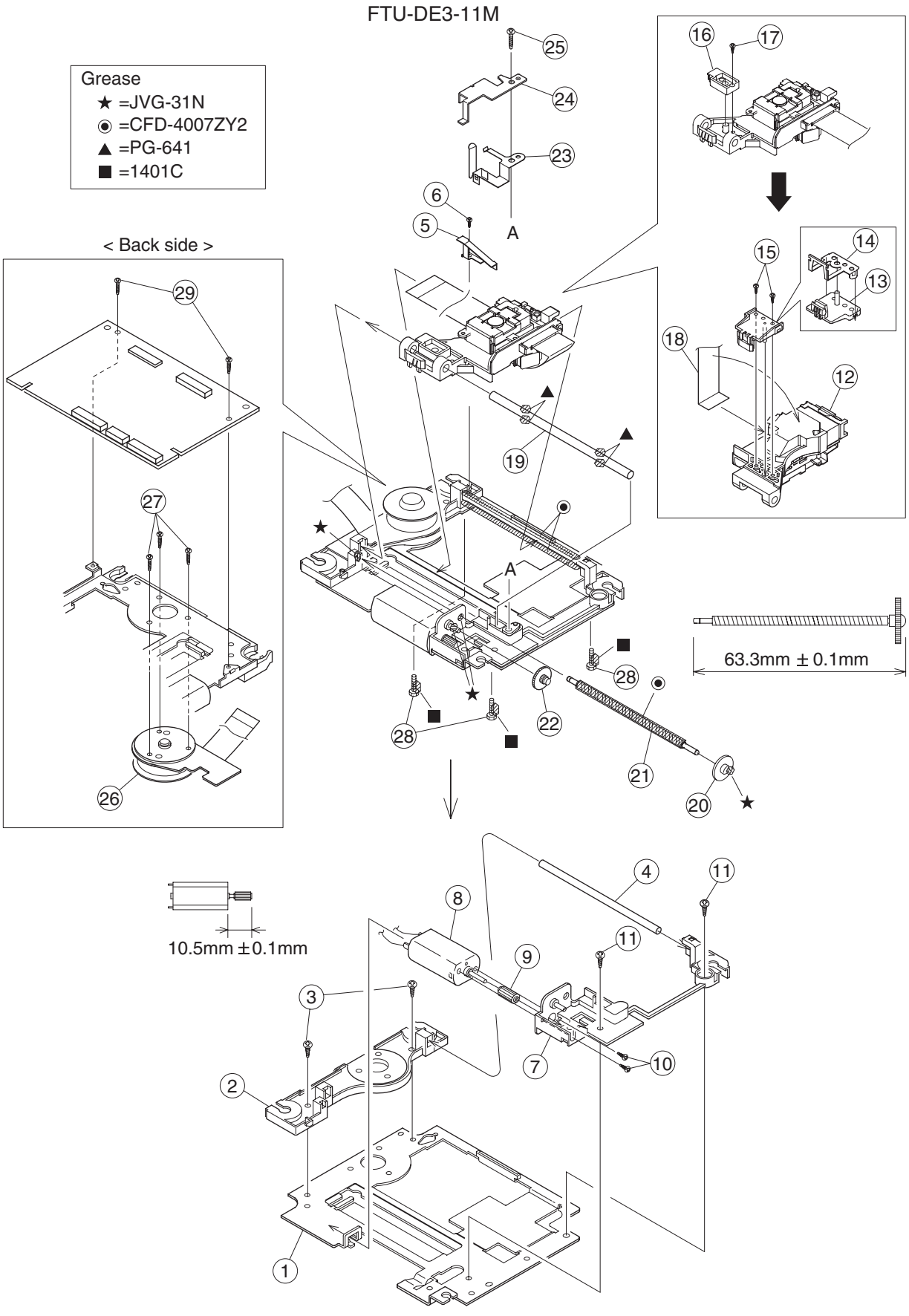
Speaker(Subwoofer)

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

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	J200-THS300S-30	SUB F.PANEL		
	2	300-J0THS31600	WOOFER UNIT		
	3	411-B84016AB1	SCREW	(x4)	
	4	J201-THS300B-10	CLOTH FRAME ASY		
	5	600-0WS300-00	SPEC LABEL		S3B,S3E,S3EN,S3EV
	5	600-0WS301-00	SPEC LABEL		S3A
	5	600-0WS302-00	SPEC LABEL		S3EE

DVD mechanism assembly and parts list

Block No. M J M M



DVD mechanism

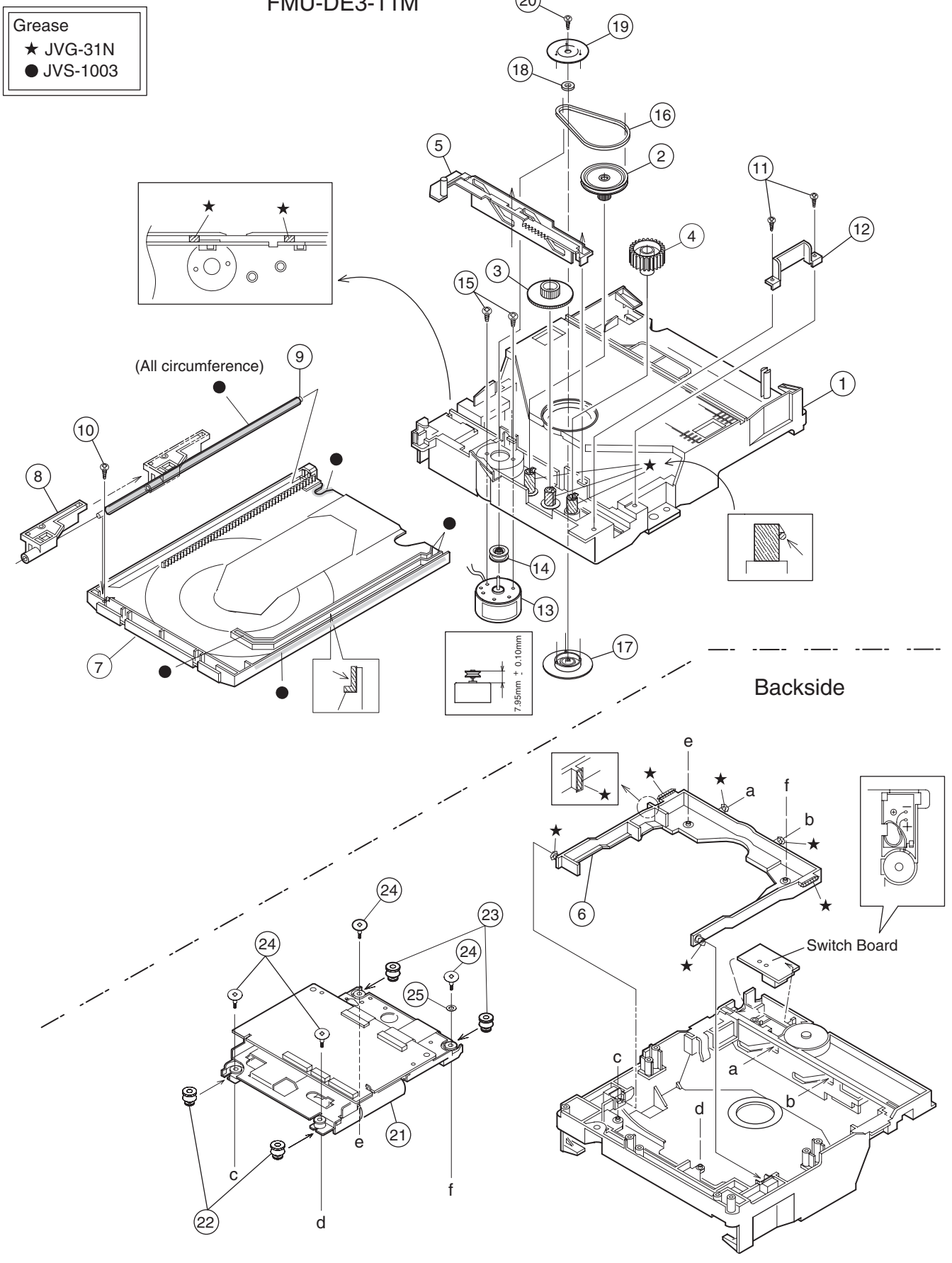
Block No. [M][J][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LE20725-001A	MECHA BASE		
	2	LE20699-002A	SPINDLE BASE		
	3	QYSDST2605M	TAP SCREW	M2.6 x 5mm(x2)	
	4	LE40931-001A	SHAFT		
	5	LV33991-001A	ADJUST SPRING		
	6	QYSPSFU2040M	TAP SCREW	M2 x 4mm	
	7	LE20698-004A	FEED HOLDER		
	8	QAR0215-001	FEED MOTOR		
	9	LV41510-201A	FEED GEAR T		
	10	QYSPSPU2040M	SCREW	M2 x 4mm(x2)	
	11	QYSDST2605M	TAP SCREW	M2.6 x 5mm(x2)	
	12	QAL0507-001	PICK UP		
	13	LE20700-001A	SW ACTUATOR		
	14	LE31067-002A	LEAD SPRING		
	15	QYSPSFU1740Z	TAP SCREW	M1.7 x 4mm(x2)	
	16	LE40929-001A	SW.LEVER		
	17	QYSPSFU1740Z	TAP SCREW	M1.7 x 4mm	
	18	QUQ105-2411AC	FFC		
	19	LE40931-001A	SHAFT		
	20	LE40855-002A	FEED GEAR E		
	21	LV41517-003A	LEAD SCREW		
	22	LE40930-001A	FEED GEAR M		
	23	LE40928-002A	THURUST SPRING		
	24	LE40927-002A	PLATE		
	25	QYSDST2614Z	TAPPING SCREW	M2.6 x 14mm	
	26	QAR0316-001	SPINDLE MOTOR		
	27	QYSPSPU1740Z	SCREW	M1.7 x 4mm(x3)	
	28	LE40858-002A	SPECIAL SCREW	(x3)	
	29	QYSDST2004Z	SCREW	2mm x 4mm(x2)	

DVD loading base assembly and parts list

Block No. M N M M

FMU-DE3-11M



DVD loading base

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

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LE10275-006A	LOADING BASE		
	2	LE31043-001A	PULLEY GEAR		
	3	LE31042-001A	MIDDLE GEAR		
	4	LE31044-001A	IDLE GEAR		
	5	LE20665-005A	SLIDE CAM		
	6	LE20666-003A	ELEVATOR		
	7	LE10276-002A	TRAY		
	8	LE31045-001A	BUSHING		
	9	LE40898-001A	SHAFT		
	10	QYSSSF2008Z	TAP SCREW	M2 x 8mm	
	11	QYSDSF2008Z	TAP SCREW	M2 x 8mm(x2)	
	12	LE40937-002A	LEAF SPRING		
	13	QAR0197-001	MOTOR		
	14	LV42087-002A	MOTOR PULLEY		
	15	QYSPSPU1730Z	SCREW	M1.7 x 3mm(x2)	
	16	LE40897-001A	BELT		
	17	LE31046-003A	CLAMPER		
	18	LV42930-003A	P.C.MAGNET		
	19	LE40899-001A	YOKE		
	20	LE40906-001A	SPECIAL SCREW		
	21	----------	DVD TRAMECHA		
	22	LE40900-003A	INSULATOR	(x2)	
	23	LE40900-005A	INSULATOR	(x2)	
	24	LE40901-001A	SPECIAL SCREW	(x4)	
	25	QYWFM419025	WASHER	9mm/4.1mm x 0.25mm	
	26	LV43828-001A	SPACER		

Electrical parts list

Main board

Block No. [0][1][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ IC130	KIA7809API	IC		
⚠ IC140	PQ050RDA1SZ	IC		
⚠ IC150	PQ033RD01SZ	IC		
⚠ IC180	PQ033ES3MXP	IC		
IC210	CD4052BNS-X	IC		
IC220	CS5342-CZZ-X	IC(DIGITAL)		
IC225	SN74AHC126NS-X	IC		
IC230	SN74AHC2GU04T-X	IC		
IC231	SN74LV00ANS-X	IC		
IC235	TC7WH74FU-X	IC(DIGITAL)	FLIP FLOP	
⚠ IC240	STA308-HT	IC (DIGITAL)		
IC241	PQ1X251M2ZP-W	IC		
⚠ IC250	STA506-X	IC		
⚠ IC254	STA506-X	IC		
⚠ IC258	STA506-X	IC		
IC270	TS482-W	IC		
IC300	MM1501XN-X	IC		
IC310	MM1623XF-X	IC		
IC400	BU1924F-X	IC		S3B, S3E, S3EE, S3EN, S3EV
IC410	MN101C61GFJ	MASK ROM		
IC411	BD4826G-X	IC		
IC412	BR24L08F-W-X	IC(DIGITAL)		
IC420	LB1641	IC		
IC451	GP1FA352RZ	OPT RECEIVER		
IC500	MN101C35DKW	IC(MPU)		
IC501	GP1UE271XK	IR DETECT UNIT		
IC600	SN74LV00ANS-X	IC		
IC601	TC7WH74FU-X	IC(DIGITAL)	FLIP FLOP	
⚠ Q1000	KTA1267/YG/-T	TRANSISTOR		
⚠ Q1100	KTA1046/Y/	TRANSISTOR		
Q1101	2SD601A/QR/-X	TRANSISTOR		
Q1102	2SD601A/QR/-X	TRANSISTOR		
⚠ Q1200	KTC2026/Y/	TRANSISTOR		
Q1600	KTA1023/OY/-T	TRANSISTOR		
Q1601	2SD601A/QR/-X	TRANSISTOR		
⚠ Q1900	2SA1037AK/RS/-X	TRANSISTOR		
Q1901	UN221L-X	DIGI TRANSISTOR		
Q2110	KTA1267/YG/-T	TRANSISTOR		
Q2650	2SD601A/QR/-X	TRANSISTOR		
Q2651	2SD601A/QR/-X	TRANSISTOR		
Q2652	2SD601A/QR/-X	TRANSISTOR		
Q2653	UN2111-X	TRANSISTOR		
Q2654	2SD601A/QR/-X	TRANSISTOR		
Q2655	2SD601A/QR/-X	TRANSISTOR		
Q2656	2SD601A/QR/-X	TRANSISTOR		
Q2657	2SD601A/QR/-X	TRANSISTOR		
Q2660	UN211E-X	DIGI TRANSISTOR		
Q2661	UN211E-X	DIGI TRANSISTOR		
Q2662	UN211E-X	DIGI TRANSISTOR		
Q2663	UN211E-X	DIGI TRANSISTOR		
Q2664	UN211E-X	DIGI TRANSISTOR		
Q2665	UN211E-X	DIGI TRANSISTOR		
Q2666	UN211E-X	DIGI TRANSISTOR		
Q2667	UN211E-X	DIGI TRANSISTOR		
Q2668	UN211E-X	DIGI TRANSISTOR		
Q2669	UN211E-X	DIGI TRANSISTOR		
Q2670	UN211E-X	DIGI TRANSISTOR		
Q2671	UN211E-X	DIGI TRANSISTOR		
Q2672	UN2213-X	DIGI TRANSISTOR		
Q2700	2SD601A/QR/-X	TRANSISTOR		
Q2720	2SD601A/QR/-X	TRANSISTOR		
Q2750	UN2111-X	TRANSISTOR		
Q3020	2SD601A/QR/-X	TRANSISTOR		S3B, S3E, S3EE, S3EN, S3EV
Q4101	UN2214-X	TRANSISTOR		
Q4102	UN2211-X	TRANSISTOR		
Q4300	UN2211-X	TRANSISTOR		
Q5000	UN2211-X	TRANSISTOR		
Q5001	UN2211-X	TRANSISTOR		
Q5004	UN2211-X	TRANSISTOR		
Q5100	UN2215-X	TRANSISTOR		
Q5101	UN2211-X	TRANSISTOR		
Q6001	2SA1037AK/RS/-X	TRANSISTOR		
⚠ D901	6A10E2	SI DIODE		
⚠ D902	6A10E2	SI DIODE		
⚠ D903	6A10E2	SI DIODE		
⚠ D904	6A10E2	SI DIODE		
⚠ D906	6A10E2	SI DIODE		
⚠ D907	6A10E2	SI DIODE		
⚠ D908	6A10E2	SI DIODE		
⚠ D909	6A10E2	SI DIODE		
⚠ D913	2A02-M	DIODE		
⚠ D914	2A02-M	DIODE		
⚠ D916	2A02-M	DIODE		
⚠ D917	2A02-M	DIODE		
⚠ D918	2A02-M	DIODE		
⚠ D919	2A02-M	DIODE		
⚠ D1000	1N4003S-T5	SI DIODE		
⚠ D1001	1N4003S-T5	SI DIODE		
⚠ D1002	1N4003S-T5	SI DIODE		
D1003	UDZS24B-X	Z DIODE		
D1004	UDZS6.8B-X	Z DIODE		
D1100	UDZS12B-X	Z DIODE		
D1200	UDZS6.2B-X	Z DIODE		
D1201	MA111-X	SI DIODE		
D1400	1N4003S-T5	SI DIODE		
D1401	1N4003S-T5	SI DIODE		
D1402	1N4003S-T5	SI DIODE		
D1500	RB160M-30-X	SB DIODE		
D1600	MA111-X	SI DIODE		
D1601	UDZS6.8B-X	Z DIODE		
D1800	UDZS3.6B-X	Z DIODE		
D2110	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
D2200	MA111-X	SI DIODE		
D2201	MA111-X	SI DIODE		
D2301	MA111-X	SI DIODE		
D2302	MA111-X	SI DIODE		
D2650	UDZS12B-X	Z DIODE		
D2651	UDZS12B-X	Z DIODE		
D2652	UDZS12B-X	Z DIODE		
D2680	MTZJ39A-T2	Z DIODE		
D3150	UDZS12B-X	Z DIODE		
D4103	MA111-X	SI DIODE		
D4104	RB160M-30-X	SB DIODE		
D4105	MA111-X	SI DIODE		
D4106	MA111-X	SI DIODE		
D4200	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
D4300	MA111-X	SI DIODE		
D4301	MA111-X	SI DIODE		
D4302	MA111-X	SI DIODE		
D4303	MA111-X	SI DIODE		
D4304	UDZS6.8B-X	Z DIODE		
D4305	MA111-X	SI DIODE		
D4306	MA111-X	SI DIODE		
D4307	MA111-X	SI DIODE		
D4308	UDZS9.1B-X	Z DIODE		
D4309	UDZS13B-X	Z DIODE		
D4400	UDZS6.8B-X	Z DIODE		
D5001	SLR-342VC-T15	LED		
D5100	SELU2E10C-P-T08	LED		
C901	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C902	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C903	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C904	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C905	QEZ0223-478	E CAPACITER	4700uF	
C913	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C914	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C915	QETM1EM-688	E CAPACITOR	6800uF 25V M	
C917	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C918	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C919	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C920	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C921	QETM1CM-688	E CAPACITOR	6800uF 16V M	
C1000	QETN1HM-227Z	E CAPACITOR	220uF 50V M	
C1001	QETN1HM-227Z	E CAPACITOR	220uF 50V M	
C1002	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1003	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C1004	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1101	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1102	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C1103	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1200	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C1201	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C1202	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1300	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C1301	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C1400	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1401	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1500	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C1501	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C1600	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C1601	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C1800	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C1801	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1900	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C2000	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C2001	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C2004	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C2100	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C2101	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2102	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2103	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C2110	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C2111	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2112	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2200	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C2201	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C2202	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C2203	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2204	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C2205	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2206	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2207	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2208	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2209	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2210	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2250	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2300	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C2301	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C2302	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2303	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2350	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2400	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2401	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2402	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2403	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2404	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2406	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C2407	NCB31HK-122X	C CAPACITOR	1200pF 50V K	
C2408	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2409	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2410	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2413	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2414	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2415	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2416	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2417	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2418	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2419	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C2420	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2422	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2423	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2424	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2425	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2426	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2430	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C2431	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C2500	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C2501	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2502	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2503	NCB21HK-683X	C CAPACITOR	0.068uF 50V K	
C2504	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2505	NCB21HK-683X	C CAPACITOR	0.068uF 50V K	
C2506	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C2507	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2508	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2509	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2510	QETN1HM-337Z	E CAPACITOR	330uF 50V M	
C2512	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2513	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2514	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2520	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C2521	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2522	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2523	NCB21HK-683X	C CAPACITOR	0.068uF 50V K	
C2524	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2525	NCB21HK-683X	C CAPACITOR	0.068uF 50V K	
C2526	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C2527	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2528	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2529	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2530	QETN1HM-337Z	E CAPACITOR	330uF 50V M	
C2531	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2532	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2540	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C2541	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2542	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2543	NCB21HK-683X	C CAPACITOR	0.068uF 50V K	
C2544	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2545	NCB21HK-683X	C CAPACITOR	0.068uF 50V K	
C2546	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C2547	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2548	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2549	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2550	QETN1HM-337Z	E CAPACITOR	330uF 50V M	
C2552	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2553	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2554	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2560	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C2561	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2562	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2563	NCB21HK-683X	C CAPACITOR	0.068uF 50V K	
C2564	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2565	NCB21HK-683X	C CAPACITOR	0.068uF 50V K	
C2566	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C2567	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2568	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2569	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2570	QETN1HM-337Z	E CAPACITOR	330uF 50V M	
C2571	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2572	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2580	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C2581	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2582	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2583	NCB21HK-683X	C CAPACITOR	0.068uF 50V K	
C2584	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2585	NCB21HK-683X	C CAPACITOR	0.068uF 50V K	
C2586	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C2587	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2588	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2589	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2590	QETN1HM-337Z	E CAPACITOR	330uF 50V M	
C2592	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2593	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2594	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2600	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C2601	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2602	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2603	NCB21HK-683X	C CAPACITOR	0.068uF 50V K	
C2604	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2605	NCB21HK-683X	C CAPACITOR	0.068uF 50V K	
C2606	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C2607	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2608	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2609	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C2610	QETN1HM-337Z	E CAPACITOR	330uF 50V M	
C2611	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2612	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C2660	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M	
C2661	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M	
C2662	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M	
C2663	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M	
C2664	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M	
C2665	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M	
C2700	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C2701	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C2702	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C2703	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C2704	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C2720	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C2721	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C2722	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C2723	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C2724	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C2750	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C2751	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2801	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2808	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C3000	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3001	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3002	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C3003	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3100	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3101	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C3102	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C3103	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3104	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C3105	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3106	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3107	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3108	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3109	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C3110	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C3111	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
C3112	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C3150	QETN1CM-106Z	E CAPACITOR	10uF 16V M	
C3200	NDC31HJ-470X	C CAPACITOR	47pF 50V J	S3A
C3201	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	S3A
C3202	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	S3A
C3203	NDC31HJ-470X	C CAPACITOR	47pF 50V J	S3A
C3204	NDC31HJ-470X	C CAPACITOR	47pF 50V J	S3A
C3205	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	S3A
C4000	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	S3B, S3E, S3EE, S3EN, S3EV
C4001	NCS31HJ-330X	C CAPACITOR	33pF 50V J	S3B, S3E, S3EE, S3EN, S3EV
C4002	NCS31HJ-330X	C CAPACITOR	33pF 50V J	S3B, S3E, S3EE, S3EN, S3EV
C4003	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	S3B, S3E, S3EE, S3EN, S3EV
C4004	QETN1CM-106Z	E CAPACITOR	10uF 16V M	S3B, S3E, S3EE, S3EN, S3EV
C4005	NCS31HJ-561X	C CAPACITOR	560pF 50V J	S3B, S3E, S3EE, S3EN, S3EV
C4006	NCS31HJ-271X	C CAPACITOR	270pF 50V J	S3B, S3E, S3EE, S3EN, S3EV
C4008	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	S3B, S3E, S3EE, S3EN, S3EV
C4013	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C4014	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C4100	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4102	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4103	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C4104	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4108	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C4109	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C4110	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C4200	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4201	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C4202	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4400	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C4401	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C4501	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5000	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C5001	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C5002	QEKC0JM-227Z	E CAPACITOR	220uF 6.3V M	
C5003	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C5005	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C5007	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C5008	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C5009	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C5010	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C5011	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C5012	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C5100	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C6001	NCS31HJ-220X	C CAPACITOR	22pF 50V J	
C6002	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
⚠ R1000	QRZ9006-4R7X	F.RESISTOR	4.7Ω 1/4W J	
R1001	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1002	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R1100	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1101	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1102	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1103	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
⚠ R1200	QRZ9042-2R2X	F RESISTOR	2.2Ω	
R1201	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1600	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R1601	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R1900	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2000	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R2001	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R2002	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2003	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2110	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2200	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2201	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2202	NRSA63J-5R1X	MG RESISTOR	5.1Ω 1/16W J	
R2203	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2204	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2205	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2207	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2208	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2250	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R2252	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2300	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R2301	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R2302	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R2303	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2304	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2305	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2401	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2402	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R2410	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R2411	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R2412	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R2413	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R2414	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R2415	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R2416	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R2417	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R2418	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R2419	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R2420	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R2421	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R2422	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2423	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2424	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2425	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2430	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2500	NRSA63J-6R2X	MG RESISTOR	6.2Ω 1/16W J	
R2502	NRSA63J-6R2X	MG RESISTOR	6.2Ω 1/16W J	
R2503	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2504	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2520	NRSA63J-6R2X	MG RESISTOR	6.2Ω 1/16W J	
R2522	NRSA63J-6R2X	MG RESISTOR	6.2Ω 1/16W J	
R2523	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2540	NRSA63J-6R2X	MG RESISTOR	6.2Ω 1/16W J	
R2542	NRSA63J-6R2X	MG RESISTOR	6.2Ω 1/16W J	
R2543	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2544	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2560	NRSA63J-6R2X	MG RESISTOR	6.2Ω 1/16W J	
R2562	NRSA63J-6R2X	MG RESISTOR	6.2Ω 1/16W J	
R2563	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2580	NRSA63J-6R2X	MG RESISTOR	6.2Ω 1/16W J	
R2582	NRSA63J-6R2X	MG RESISTOR	6.2Ω 1/16W J	
R2583	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2584	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2600	NRSA63J-6R2X	MG RESISTOR	6.2Ω 1/16W J	
R2602	NRSA63J-6R2X	MG RESISTOR	6.2Ω 1/16W J	
R2603	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R2650	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2651	NRS181J-560X	MG RESISTOR	56Ω 1/8W J	
R2652	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2653	NRS181J-560X	MG RESISTOR	56Ω 1/8W J	
R2654	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2655	NRS181J-560X	MG RESISTOR	56Ω 1/8W J	
R2656	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2657	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2660	NRSA63J-433X	MG RESISTOR	43kΩ 1/16W J	
R2661	NRSA63J-433X	MG RESISTOR	43kΩ 1/16W J	
R2662	NRSA63J-433X	MG RESISTOR	43kΩ 1/16W J	
R2663	NRSA63J-433X	MG RESISTOR	43kΩ 1/16W J	
R2664	NRSA63J-433X	MG RESISTOR	43kΩ 1/16W J	
R2665	NRSA63J-433X	MG RESISTOR	43kΩ 1/16W J	
R2666	NRSA63J-433X	MG RESISTOR	43kΩ 1/16W J	
R2667	NRSA63J-433X	MG RESISTOR	43kΩ 1/16W J	
R2668	NRSA63J-433X	MG RESISTOR	43kΩ 1/16W J	
R2669	NRSA63J-433X	MG RESISTOR	43kΩ 1/16W J	
R2670	NRSA63J-433X	MG RESISTOR	43kΩ 1/16W J	
R2671	NRSA63J-433X	MG RESISTOR	43kΩ 1/16W J	
R2673	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R2674	NRSA63J-362X	MG RESISTOR	3.6kΩ 1/16W J	
R2680	QRE141J-154Y	C RESISTOR	150kΩ 1/4W J	
R2700	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2701	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2702	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2703	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2704	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2705	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2706	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R2708	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R2710	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2711	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R2712	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R2720	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2721	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2722	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2723	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2724	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2725	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2726	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R2728	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R2730	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2731	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R2732	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R2800	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2803	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2809	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2810	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R2851	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2852	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3000	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3004	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R3005	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3006	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R3007	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3008	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R3009	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R3010	NRSA63J-361X	MG RESISTOR	360Ω 1/16W J	S3A
R3010	NRSA63J-431X	MG RESISTOR	430Ω 1/16W J	S3B, S3E, S3EE, S3EN, S3EV
R3011	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3012	NRSA63J-361X	MG RESISTOR	360Ω 1/16W J	S3A
R3012	NRSA63J-431X	MG RESISTOR	430Ω 1/16W J	S3B, S3E, S3EE, S3EN, S3EV
R3013	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3020	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	S3B, S3E, S3EE, S3EN, S3EV
R3021	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	S3B, S3E, S3EE, S3EN, S3EV
R3022	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	S3B, S3E, S3EE, S3EN, S3EV
R3100	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3150	NRS181J-202X	MG RESISTOR	2kΩ 1/8W J	
R3151	NRS181J-202X	MG RESISTOR	2kΩ 1/8W J	
R3200	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	S3A
R3201	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	S3A
R3202	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	S3A
R3203	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	S3A
R3204	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	S3A
R3300	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R3301	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R3302	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4012	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4013	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R4014	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R4016	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4101	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4102	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4103	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	S3A
R4104	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4105	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4111	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4112	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4117	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4118	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R4119	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4120	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4121	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4124	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4126	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4127	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R4128	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R4129	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R4130	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4132	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4133	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4151	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4152	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4153	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4154	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4155	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4156	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4157	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4158	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4159	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4160	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4161	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4162	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4163	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4164	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4171	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4200	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4301	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R4302	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4303	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R4304	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R4305	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R4306	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R4307	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4400	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4401	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4501	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R5000	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5001	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R5002	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5003	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5004	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5005	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5006	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R5007	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5008	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R5009	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R5010	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R5011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5012	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R5013	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R5014	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R5015	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R5100	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R5101	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R5102	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R6001	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R6002	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R6050	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6051	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L2501	QQL72AM-220	COIL	22uH M	
L2502	QQL72AM-220	COIL	22uH M	
L2521	QQL72AM-220	COIL	22uH M	
L2522	QQL72AM-220	COIL	22uH M	
L2541	QQL72AM-220	COIL	22uH M	
L2542	QQL72AM-220	COIL	22uH M	
L2561	QQL72AM-220	COIL	22uH M	
L2562	QQL72AM-220	COIL	22uH M	
L2581	QQL72AM-220	COIL	22uH M	
L2582	QQL72AM-220	COIL	22uH M	
L2601	QQL72AM-220	COIL	22uH M	
L2602	QQL72AM-220	COIL	22uH M	
L3100	QQL25CK-221Z	COIL	220uH K	
L4200	QQL244K-100Z	COIL	10uH K	
CN190	QGA2501C1-02	CONNECTOR	W-B (1-2)	
CN341	QGF1205C1-13	CONNECTOR	FFC/FPC (1-13)	S3B, S3E, S3EE, S3EN, S3EV
CN422	QGF1036C1-15	CONNECTOR	FFC/FPC (1-15)	
CN423	QGF1036C1-17	CONNECTOR	FFC/FPC (1-17)	
CN424	QGF1036C1-09	CONNECTOR	FFC/FPC (1-9)	
CN425	QGF1036C1-05	CONNECTOR	FFC/FPC (1-5)	
CN426	QGF1036C1-08	CONNECTOR	FFC/FPC (1-8)	
CN427	QGF1205C1-10	CONNECTOR	FFC/FPC (1-10)	
CN428	QGF1036C1-21	CONNECTOR	FFC/FPC (1-21)	
CN430	QGA1002C1-03X	CONNECTOR	W-B (1-3)	
CN450	QGF1036F1-21	CONNECTOR	FFC/FPC (1-21)	
CN451	QGB2024K1-04S	CONNECTOR	B-B (1-4)	
CN452	QGB2024J1-04S	CONNECTOR	B-B (1-4)	
CN454	QGF1210G1-04	CONNECTOR	FFC/FPC (1-4)	
CN901	QGA3901C1-10	CONNECTOR	W-B (1-10)	
⚠ CP410	ICP-N5-T	IC PROTECTOR	250mA	
DI500	QLF0131-001	FL TUBE		
HS110	LE40505-001A	HEAT SINK		
HS120	LE40505-001A	HEAT SINK		
HS130	LE40505-001A	HEAT SINK		
HS140	GV40520-002A	HEAT SINK		
HS150	LV40057-H30B	HEAT SINK		
IH500	VYH7653-003	IC HOLDER		
J2000	QNN0662-001	PIN JACK		
J2600	QNB0189-001	SPK TERMINAL		
J3200	QNN0557-002	PIN JACK		S3A
J3300	QNN0658-001	COMPONENT OUT		
J4400	QNS0089-001	3.5 JACK		
JS500	QSW1059-001	JOG VOLUME		
K2300	NQR0502-001X	FERRITE BEADS		
K2301	NQR0502-001X	FERRITE BEADS		
K2302	NQR0360-003X	FERRITE BEADS		
K2400	NQR0389-003X	FERRITE BEADS		
K2401	NQR0389-003X	FERRITE BEADS		
K2800	NQR0360-002X	FERRITE BEADS		
K2801	NQR0360-002X	FERRITE BEADS		
K2802	NQR0360-002X	FERRITE BEADS		
K2803	NQR0360-002X	FERRITE BEADS		
K2804	NQR0360-002X	FERRITE BEADS		
K2805	NQR0360-002X	FERRITE BEADS		
K2807	NQR0360-002X	FERRITE BEADS		
K2808	NQR0360-002X	FERRITE BEADS		
K2809	NQR0360-002X	FERRITE BEADS		
K2810	NQR0360-002X	FERRITE BEADS		
K2811	NQR0360-002X	FERRITE BEADS		
⚠ RY260	QSK0127-001	RELAY		
⚠ RY261	QSK0127-001	RELAY		
⚠ RY262	QSK0127-001	RELAY		
S5000	QSW0683-001Z	PUSH SW		
S5001	QSW0683-001Z	PUSH SW		
S5002	QSW0683-001Z	PUSH SW		
S5003	QSW0683-001Z	PUSH SW		
S5004	QSW0683-001Z	PUSH SW		
S5005	QSW0683-001Z	PUSH SW		
S5006	QSW0683-001Z	PUSH SW		
S5007	QSW0683-001Z	PUSH SW		
SP268	E3400-431	SPECER		
SP601	E3400-431	SPECER		
SP602	E3400-431	SPECER		
TB121	QWTG640-015	SHRINK TUBE		
TB130	QWTG640-015	SHRINK TUBE		
TB131	QWTG640-015	SHRINK TUBE		
TB140	QWTG640-015	SHRINK TUBE		
TB141	QWTG640-015	SHRINK TUBE		
W601	QUB450-05A2A2	SIN TWIST WIRE		
X2300	QAX0800-001Z	C RESONATOR		
X4000	QAX0263-001Z	CRYSTAL	4.332MHz	S3B, S3E, S3EE, S3EN, S3EV
X4100	QAX0246-001Z	C RESONATOR	8.00MHz	
X5000	NAX0623-001X	C RESONATOR		
Z901	QNG0003-001Z	FUSE CLIP		
Z902	QNG0003-001Z	FUSE CLIP		
Z903	QNG0003-001Z	FUSE CLIP		
Z904	QNG0003-001Z	FUSE CLIP		
Z905	QNG0003-001Z	FUSE CLIP		
Z906	QNG0003-001Z	FUSE CLIP		
Z907	QNG0003-001Z	FUSE CLIP		
Z908	QNG0003-001Z	FUSE CLIP		
Z909	QNG0003-001Z	FUSE CLIP		
Z910	QNG0003-001Z	FUSE CLIP		

Trans board

Block No. [0][2][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q951	KTB772/Y/	TRANSISTOR		
Q952	KTC3199/GL/-T	TRANSISTOR		
Q953	KTC3199/GL/-T	TRANSISTOR		
Q954	KTC3199/GL/-T	TRANSISTOR		
Q955	KTC3199/GL/-T	TRANSISTOR		
Q3400	KRC102M-T	DIGI TRANSISTOR		S3B, S3E, S3EE, S3EN, S3EV
Q3401	KRC102M-T	DIGI TRANSISTOR		S3B, S3E, S3EE, S3EN, S3EV
Q3402	KRA102M-T	DIGI TRANSISTOR		S3B, S3E, S3EE, S3EN, S3EV
Q3403	KRC102M-T	DIGI TRANSISTOR		S3B, S3E, S3EE, S3EN, S3EV
D950	1SS133-T2	DIODE		
D951	1N4003S-T5	SI DIODE		
D953	MTZJ5.6B-T2	Z DIODE		
D954	MTZJ3.6B-T2	Z DIODE		
D955	1N4003S-T5	SI DIODE		
⚠ C950	QCZ9105-472	C CAPACITOR	4700pF 250V M	
C951	QETM1EM-108	E CAPACITOR	1000uF 25V M	
C954	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C955	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C956	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C957	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C958	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
⚠ C959	QFZ9075-683	MPP CAPACITOR	0.068uF AC275V M	
⚠ C960	QCZ9079-101	C CAPACITOR	100pF AC250V K	
⚠ C961	QCZ9079-101	C CAPACITOR	100pF AC250V K	
C2780	QCBB1HK-104Y	C CAPACITOR	0.1uF 50V K	
C2781	QCBB1HK-104Y	C CAPACITOR	0.1uF 50V K	
C2782	QCBB1HK-104Y	C CAPACITOR	0.1uF 50V K	
C2783	QCBB1HK-223Y	C CAPACITOR	0.022uF 50V K	
C2784	QCBB1HK-103Y	C CAPACITOR	0.01uF 50V K	
C3400	QCBB1HK-331Y	C CAPACITOR	330pF 50V K	S3B, S3E, S3EE, S3EN, S3EV
C3401	QCBB1HK-331Y	C CAPACITOR	330pF 50V K	S3B, S3E, S3EE, S3EN, S3EV
C3402	QCBB1HK-331Y	C CAPACITOR	330pF 50V K	S3B, S3E, S3EE, S3EN, S3EV
C3405	QCBB1HK-331Y	C CAPACITOR	330pF 50V K	S3B, S3E, S3EE, S3EN, S3EV
C3406	QCSB1HJ-470Y	C CAPACITOR	47pF 50V J	S3B, S3E, S3EE, S3EN, S3EV
C3407	QCSB1HJ-470Y	C CAPACITOR	47pF 50V J	S3B, S3E, S3EE, S3EN, S3EV
C3408	QCSB1HJ-470Y	C CAPACITOR	47pF 50V J	S3B, S3E, S3EE, S3EN, S3EV
C3409	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	S3B, S3E, S3EE, S3EN, S3EV
C3410	QCSB1HJ-470Y	C CAPACITOR	47pF 50V J	S3B, S3E, S3EE, S3EN, S3EV
R953	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R954	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R955	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R956	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R957	QRE141J-271Y	C RESISTOR	270Ω 1/4W J	
R958	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R2780	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R2781	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R3400	QRE141J-202Y	C RESISTOR	2kΩ 1/4W J	S3B, S3E, S3EE, S3EN, S3EV
R3401	QRE141J-202Y	C RESISTOR	2kΩ 1/4W J	S3B, S3E, S3EE, S3EN, S3EV
R3402	QRE141J-821Y	C RESISTOR	820Ω 1/4W J	S3B, S3E, S3EE, S3EN, S3EV
R3403	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J	S3B, S3E, S3EE, S3EN, S3EV
R3404	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	S3B, S3E ,S3EE ,S3EN ,S3EV
R3405	QRE141J-223Y	C RESISTOR	22kΩ 1/4W J	S3B, S3E, S3EE, S3EN, S3EV
R3406	QRE141J-393Y	C RESISTOR	39kΩ 1/4W J	S3B, S3E, S3EE, S3EN, S3EV
R3407	QRE141J-151Y	C RESISTOR	150Ω 1/4W J	S3B, S3E, S3EE, S3EN, S3EV
R3409	QRE141J-151Y	C RESISTOR	150Ω 1/4W J	S3B, S3E, S3EE, S3EN, S3EV
R3411	QRE141J-393Y	C RESISTOR	39kΩ 1/4W J	S3B, S3E, S3EE, S3EN, S3EV
R3412	QRE141J-750Y	C RESISTOR	75Ω 1/4W J	S3B, S3E, S3EE, S3EN, S3EV
R3413	QRE141J-750Y	C RESISTOR	75Ω 1/4W J	S3B, S3E, S3EE, S3EN, S3EV

⚠ Symbol No.	Part No.	Part Name	Description	Local
R3414	QRE141J-750Y	C RESISTOR	75Ω 1/4W J	S3B, S3E, S3EE, S3EN, S3EV
R3415	QRE141J-101Y	C RESISTOR	100Ω 1/4W J	S3B, S3E, S3EE, S3EN, S3EV
R3416	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	S3B, S3E, S3EE, S3EN, S3EV
R3417	QRE141J-750Y	C RESISTOR	75Ω 1/4W J	S3B, S3E, S3EE, S3EN, S3EV
⚠ T950	QQT0253-002	POWER TRANSF		
CN340	QGF1205F1-13	CONNECTOR	FFC/FPC (1-13)	S3B, S3E, S3EE, S3EN, S3EV
CN453	QGF1210G1-04	CONNECTOR	FFC/FPC (1-4)	
CN950	QGA7901C1-02	CONNECTOR	W-B (1-2)	
CN952	QGA7901C1-02	CONNECTOR	W-B (1-2)	
CN953	QGA2001C1-04	CONNECTOR	W-B (1-4)	
EP950	QNZ0136-001Z	EARTH PLATE		
J2780	QNS0170-001	HEADPHONE JACK		
J3400	QNZ0625-001	RGB CONNECTOR		S3B, S3E, S3EE, S3EN, S3EV
K2780	QQR0601-001Z	COIL		
K2781	QQR0601-001Z	COIL		
K2782	QQR0601-001Z	COIL		
⚠ LF950	QQR1360-001	LINE FILTER		
PP950	QZW0112-001	WIRE CLAMP		
PP951	QZW0112-001	WIRE CLAMP		
PP952	QZW0112-001	WIRE CLAMP		
⚠ RY950	QSK0124-001	RELAY		
Z950	QNG0003-001Z	FUSE CLIP		
Z951	QNG0003-001Z	FUSE CLIP		

DVD servo board

Block No. [0][3][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC201	LA6502-X	IC		
IC301	MN2DS0004AA-H	IC		
IC302	LM1117MP-ADJ-X	IC		
IC305	MM1563DF-X	IC	3.3V Regulator	
IC453	S-80827CNNB-W	IC		
IC505	K4S643232F-TC60	IC		
IC505 or	K4S643232H-TC60	IC		
IC509	AT49BV322AT70TI	IC(FLASH)		
IC512	SN74LVC373APW-X	IC(DIGITAL)		
IC513	SN74LVC373APW-X	IC(DIGITAL)		
IC706	SN74AHC1G08DC-X	IC C.M .		
IC707	SN74AHC1G04DC-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		
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	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
C106	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
C107	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C108	NEA70JM-476X	E CAPACITOR	47uF 6.3V M	
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	
C211	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C217	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C251	NCB31AK-474X	C CAPACITOR	0.47uF 10V 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	
C300	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C301	NEA70GM-227X	E CAPACITOR	220uF 4V M	
C302	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C303	NEA70GM-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	NCB30JK-105X	C CAPACITOR	1uF 6.3V 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	
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	
C328	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C329	NCB31CK-104X	C CAPACITOR	0.1uF 16V 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	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
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	
C351	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C352	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C353	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C354	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C356	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C371	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C380	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C381	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C382	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C391	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C455	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C551	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C552	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C553	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C554	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C555	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C556	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C557	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C558	NEA70GM-476X	E CAPACITOR	47uF 4V M	
C751	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C757	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C758	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C759	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
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-270X	MG RESISTOR	27Ω 1/2W J	
R106	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R107	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R108	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R109	NRSA63J-471X	MG RESISTOR	470Ω 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	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R127	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R128	NRSA63J-163X	MG RESISTOR	16kΩ 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	
R213	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R214	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	
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-270X	MG RESISTOR	27Ω 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	
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-6R8X	MG RESISTOR	6.8Ω 1/16W J	
R317	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R319	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R320	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R331	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R332	NRSA63J-331X	MG RESISTOR	330Ω 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	
R345	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R346	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R347	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R351	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R352	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R353	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R354	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R355	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R356	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R357	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R358	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R359	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R360	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R362	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R363	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R367	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R368	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R369	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R372	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R373	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R384	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R385	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R388	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
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	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R399	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R452	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R457	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R458	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R530	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R531	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R533	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R534	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R562	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R728	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R729	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R732	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R754	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R758	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R759	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R761	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R990	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
CN101	QGF0523F1-24W	CONNECTOR	FFC/FPC (1-24)	
CN201	QGF1037F1-08W	CONNECTOR	FFC/FPC (1-8)	
CN501	QGF1016F2-08W	CONNECTOR	FFC/FPC (1-8)	
CN502	QGF1016F2-09W	CONNECTOR	FFC/FPC (1-9)	
CN503	QGF1016F2-17W	CONNECTOR	FFC/FPC (1-17)	
CN504	QGF1016F2-15W	CONNECTOR	FFC/FPC (1-15)	
CN505	QGA1002F1-03X	CONNECTOR	W-B (1-3)	
K101	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K102	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
K350	NQR0502-001X	FERRITE BEADS		
K352	NQR0502-001X	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		
K721	NQR0251-004X	FERRITE BEADS		
K722	NQR0251-004X	FERRITE BEADS		
K723	NQR0251-004X	FERRITE BEADS		
K724	NQR0251-004X	FERRITE BEADS		
K725	NQR0251-004X	FERRITE BEADS		
K730	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K731	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K732	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K733	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K734	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K735	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K736	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K752	NQR0502-001X	FERRITE BEADS		
K758	NQR0360-003X	FERRITE BEADS		
K759	NQR0360-003X	FERRITE BEADS		
K766	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K767	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
TH301	NAD0025-103X	N THERMISTOR	10kΩ	
X351	NAX0550-001X	CRYSTAL	27.000MHz	

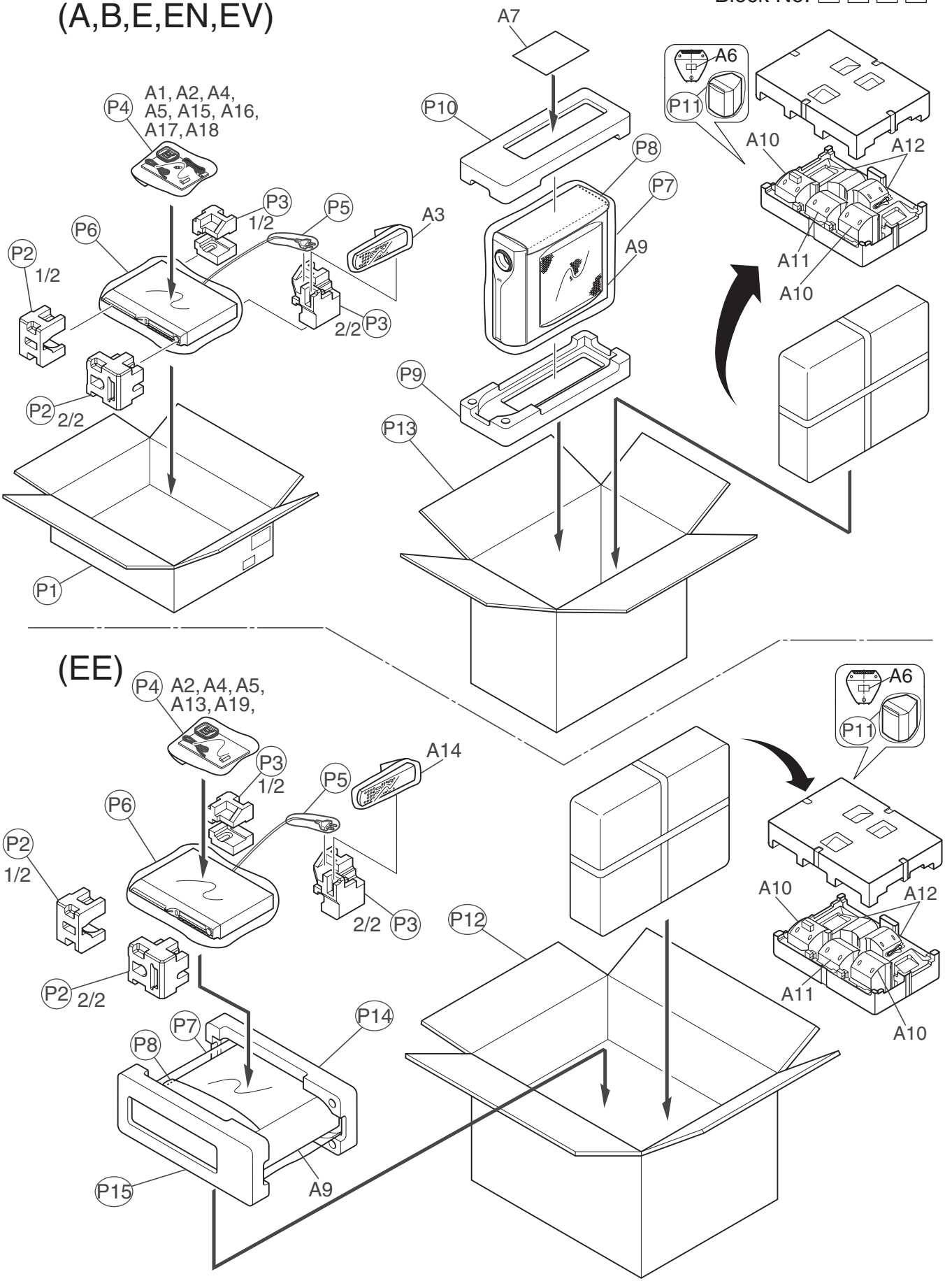
DVD loading switch board

Block No. [0][4][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
CN1	QGF1016F3-05	CONNECTOR	FFC/FPC (1-5)	
S1	QSW1007-001	DETECT SWITCH		

Packing materials and accessories parts list

Block No. M 3 M M



Packing and Accessories

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

⚠	Symbol No.	Part No.	Part Name	Description	Local
	A 1	GVT0133-005A	INST BOOK	ENG	S3A
	A 1	GVT0133-008A	INST BOOK	ENG	S3B
	A 1	GVT0133-006A	INST BOOK	GER,FRE,DUT	S3E
	A 1	GVT0133-007A	INST BOOK	GER,FRE,SPA,ITA,SWE,FIN,DAN	S3EN
	A 1	GVT0133-009A	INST BOOK	POL,HUN,CZE	S3EV
	A 2	QAL0014-001	AM LOOP ANT		
	A 3	RM-STHS3U	REMOCON		S3A
	A 3	RM-STHS3R	REMOCON		S3B,S3E,S3EN,S3EV
	A 4	QAL0457-001	ANT.WIRE		
	A 5	----------	BATTERY	(x2)	
	A 6	600-FHS3F0-00	SPEC LABEL(F)	FRONT(x2)	
	A 6	600-CHS3F0-00	SPEC LABEL(C)	CENTER	
	A 6	600-RHS3F0-00	SPEC LABEL(S)	SURROUND(x2)	
	A 7	650-THS300-00	INST.MANUAL	ENG,GER,FRE,DUT,SPA,ITA,SWE,DAN,FIN	S3B,S3E,S3EN,S3EV
	A 7	650-THS301-00	INST.MANUAL	ENG,SPA,POR,CHI,ARA	S3A
	A 9	SPPWS3E-SPBOX	SPEAKER BOX	SUB WOOFER	
	A 10	SPTHS3FFE-SPBOX	SPEAKER BOX	FRONT(x2)	
	A 11	SPTHS3FCE-SPBOX	SPEAKER BOX	CENTER	
	A 12	SPTHS3FSE-SPBOX	SPEAKER BOX	SURROUND(x2)	
	A 13	GVT0133-010A	INST BOOK	RUS	S3EE
	A 14	RM-STHS3R	REMOCON		S3EE
	A 15	QAM0216-001	SIGNAL CORD		S3A
	A 16	BT-56012-1	WARRANTY CARD		S3A
	A 16	BT-54013-7	WARRANTY CARD		S3B,S3E,S3EN,S3EV
	A 17	VNA3000-204	REGISTER CARD		S3B
	A 18	BT-56002-2	S.CENTER LIST		S3A
	A 19	BT-54013-7	WARRANTY CARD		S3EE
	P 1	GV30599-002A	CARTON BOX		S3A
	P 1	GV30599-001A	CARTON BOX		S3B,S3E,S3EN,S3EV
	P 2	GV20256-001A	FRONT CUSHION		
	P 3	GV20257-001A	REAR CUSHION		
	P 4	QPA02503503P	POLY BAG	25cm x 35cm	
	P 5	QPA01002503	POLY BAG	10cm x 25cm	
	P 6	QPC05006530P	POLY BAG	50cm x 65cm	
	P 7	700-120085-10	HDPE BAG		
	P 8	715-250089-00	MIRAMAT SHEET		
	P 9	720-THS3B0-00	BOTTOM CUSHION		S3A,S3B,S3E,S3EN,S3EV
	P 10	720-THS3T0-00	TOP CUSHION		S3A,S3B,S3E,S3EN,S3EV
	P 11	700-120087-10	HDPE BAG	(x5)	
	P 12	GV30524-002A	CARTON BOX		S3EE
	P 13	730-THS300-00	CARTON (E)		S3B,S3E,S3EN,S3EV
	P 13	730-THS301-00	CARTON (U/UX)		S3A
	P 14	720-THS3B1-00	BOTTOM CUSHION		S3EE
	P 15	720-THS3T1-00	TOP CUSHION		S3EE

JVC

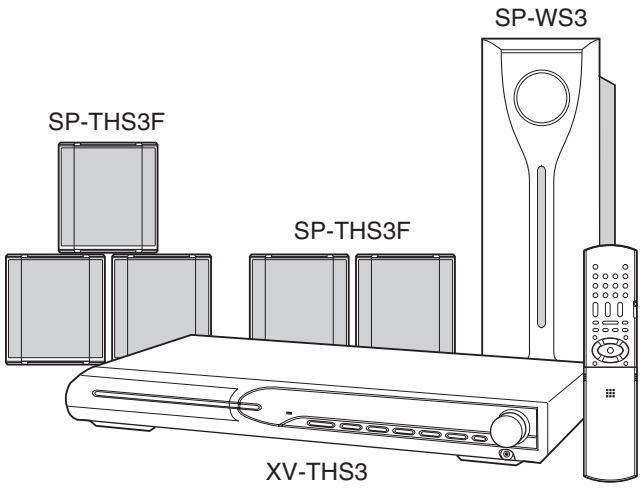
SCHEMATIC DIAGRAMS

DVD DIGITAL CINEMA SYSTEM

TH-S3

CD-ROM No.SML200405

Area suffix
A ---------- Australia
B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe
EV ---------- Eastern Europe
EE -------- Russian Federation



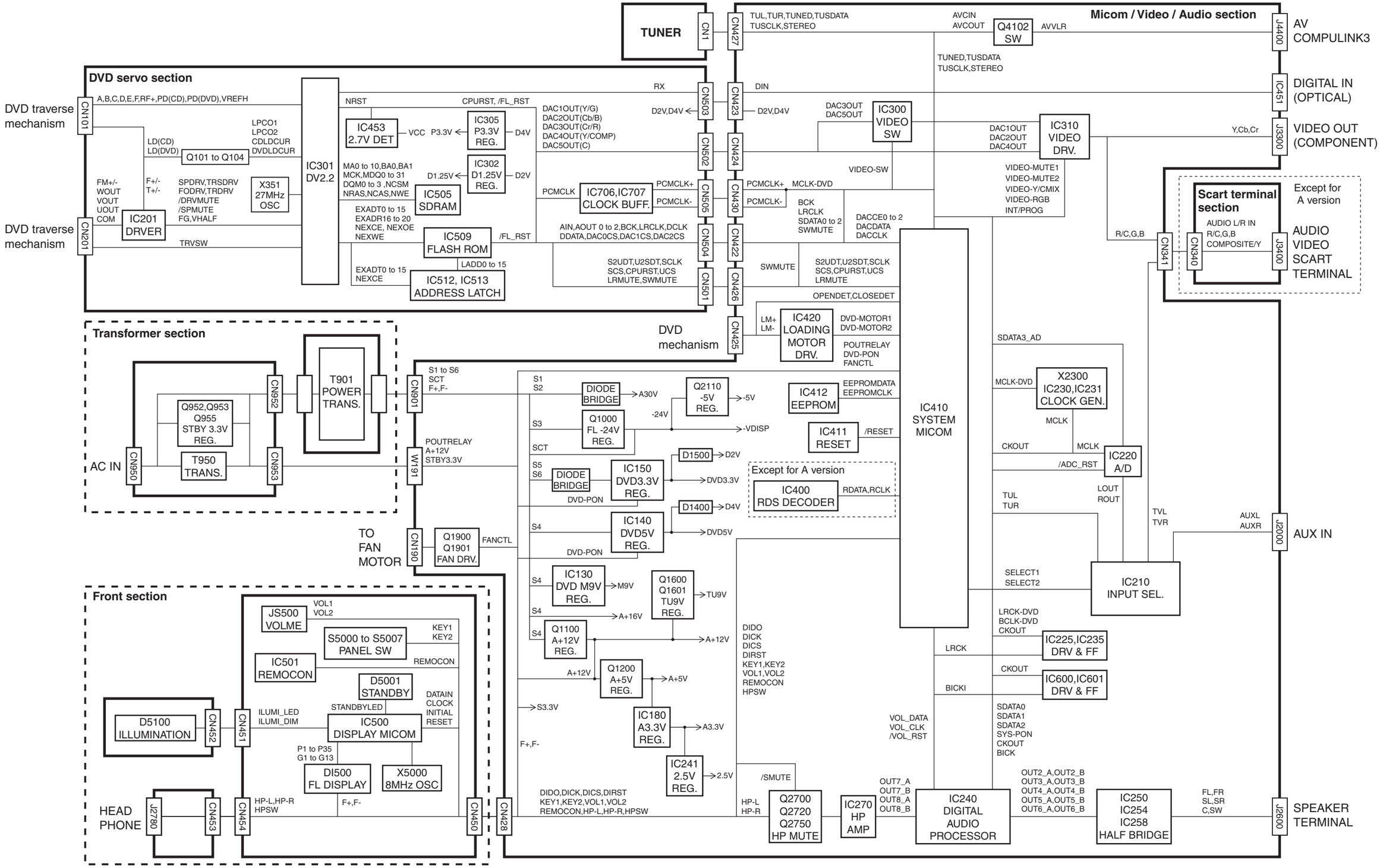
R·D·S DVD AUDIO/VIDEO COMPACT disc SUPER VIDEO DOLBY DIGITAL PRO LOGIC II DIGITAL dts SURROUND *Digital Direct Progressive Scan*

Contents

No.MB187SCH
2004/5

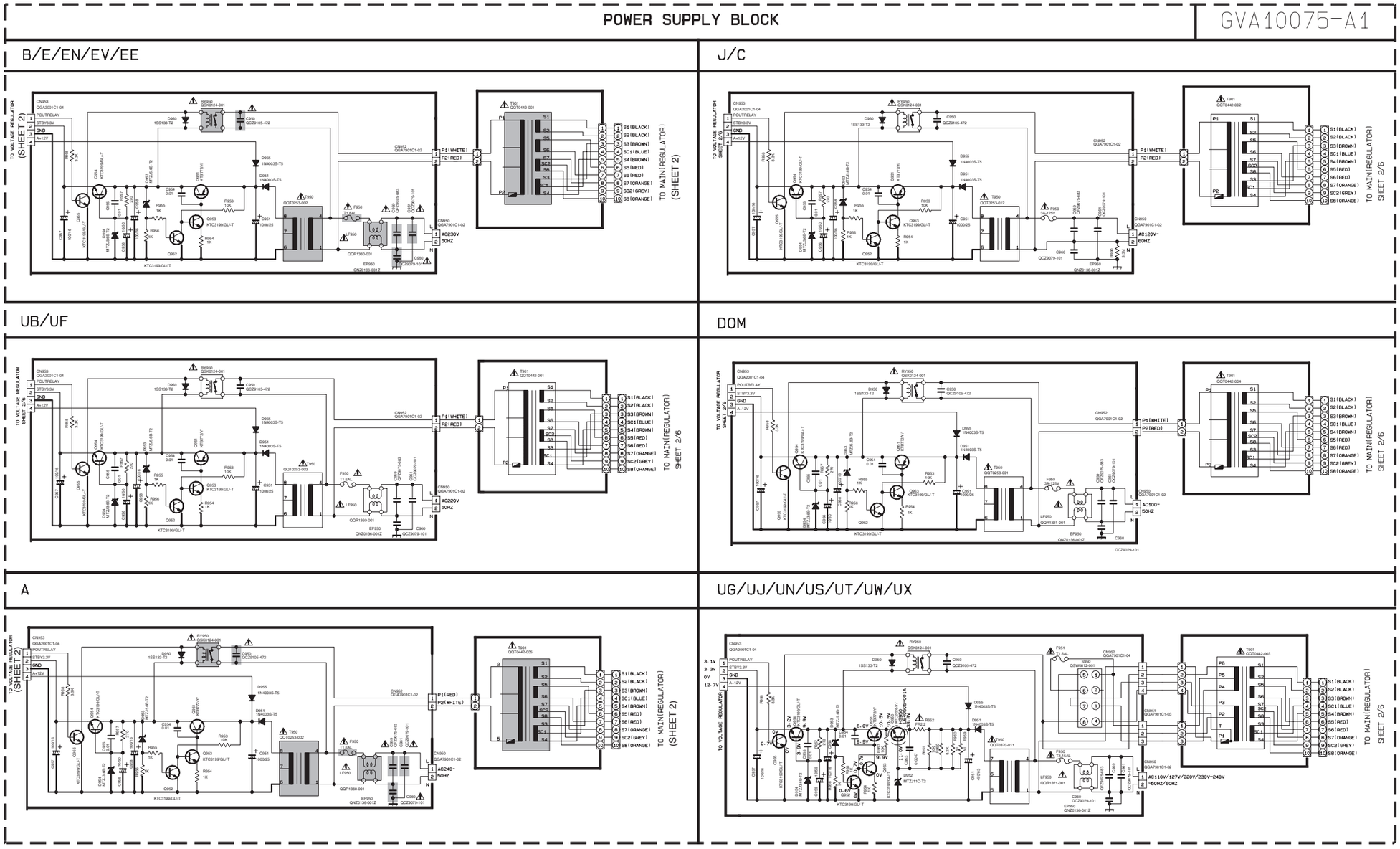
In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▬) and ICP (●) or identified by the "⚠" mark nearby are critical for safety.
(This regulation does not correspond to J and C version.)

Block diagram



Standard schematic diagrams

■ Transformer section



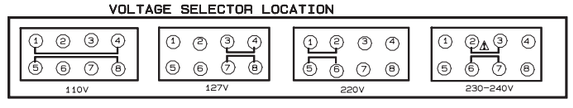
VERSION CODES

A: AUSTRALIA
B: GREAT BRITAIN
C: CANADA
D: JAPAN
E: GERMANY/FRANCE/HOLLAND
EE: RUSSIA
EN: SWEDEN/NORWAY/FINLAND/DENMARK
EV: EAST EUROPE
J: U.S.A.
UB: HONG KONG
UF: CHINA
UG: TURKEY/EGYPT/SOUTHAFRICA
UJ: USA MILITALY BASE
US: SINGAPORE
UT: TAIWAN
UW: BRAZIL/MEXICO/PERU
UX: SAUDI ARABIA
UY: ARGENTINA

NOTES

1. VOLTAGE ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL
   INSIDE BRACKET VALUES ARE OTHER FUNCTIONS
2. UNLESS OTHERWISE SPECIFIED. RESISTOR ARE 1/4W ±5% CARBON RESISTOR
   ALL RESISTOR VALUES ARE IN OHM.
   ALL CAPACITOR ARE CERAMIC CAPACITOR OR MYLAR CAPAPACITOR.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF).
   ALL INDUCTANCE VALUES ARE IN uH(M=mH).
   ALL E.CAPACITOR ARE SHOWN IN THE FORM OF CAPACITANCE (uF)/RATED VOLTAGE(V).
3. FOR VERSION B/E/EN/EV/EE/UB/UF/A/J/C/DOM CIRCUIT VOLTAGE,
   PLEASE REFER TO UG/UJ/UN/US/UT/UW/UX/ CIRCUIT VOLTAGE

VOLTAGE SELECTOR LOCATION

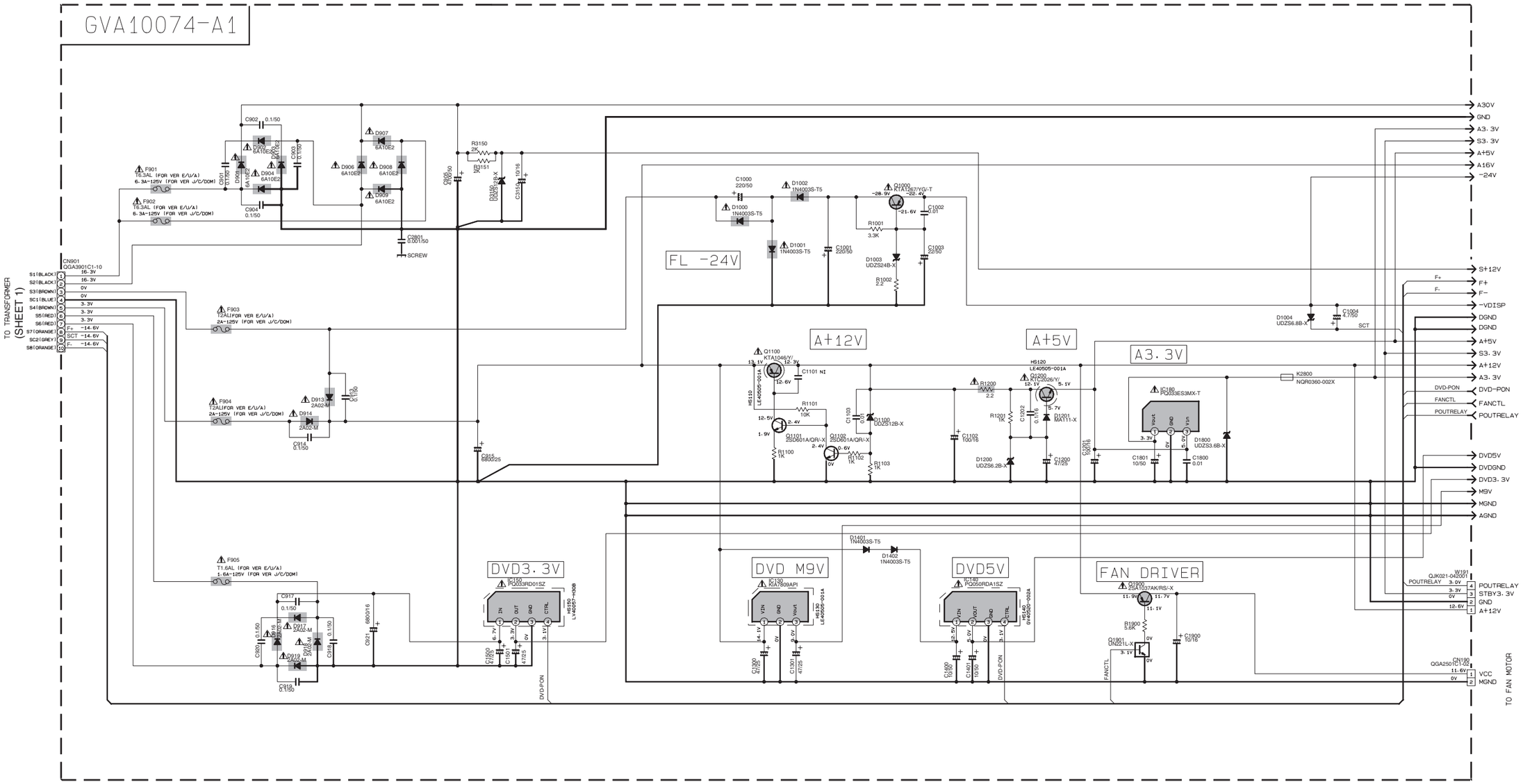


⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

TRANSFORMER

SHEET 1

■ Regulator section



NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION ---- CD STOP MODE Vol.0
2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN #F(P=pF).
   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 VERSIONS ARE EXPLAINED NEAR MARK.

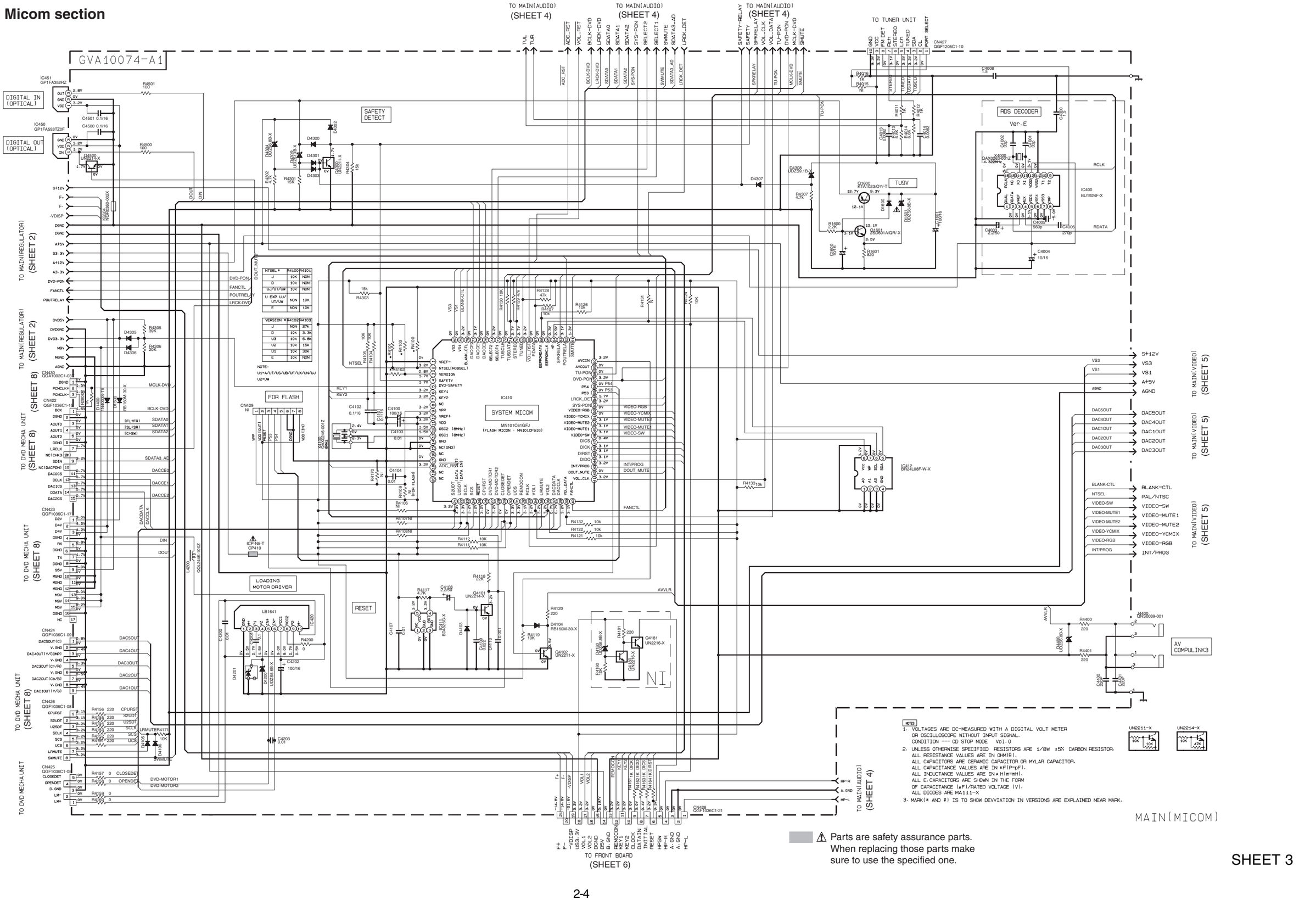
UN2211L-X

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

MAIN(REGULATOR)

SHEET 2

■ Micom section

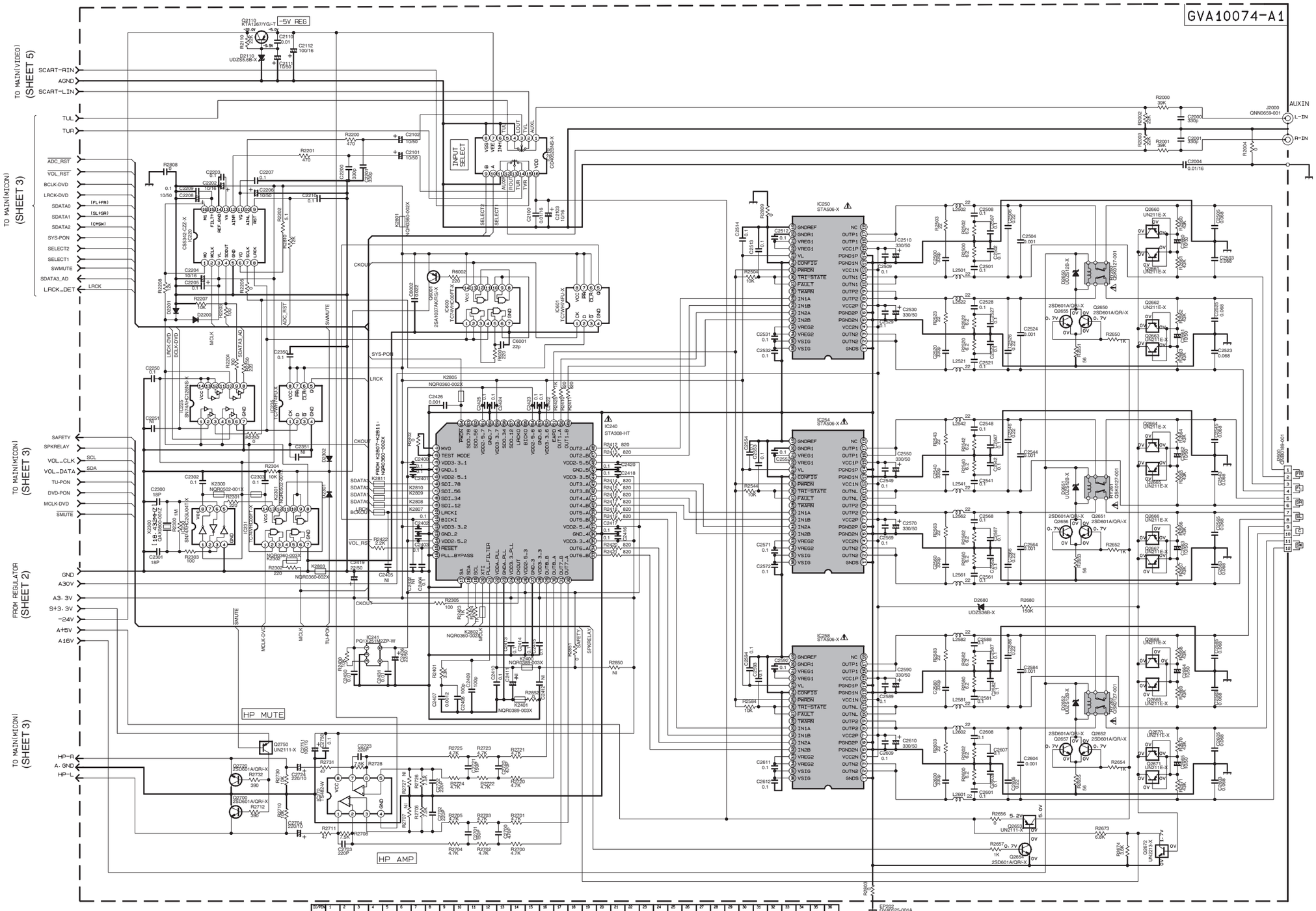


NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION ---- CD STOP MODE Vol.0
2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/8W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN #F(P=pF).
   ALL INDUCTANCE VALUES ARE IN # H(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (#F)/RATED VOLTAGE (V).
   ALL DIODES ARE MA111-X
3. MARK(* AND #) IS TO SHOW DEVVIATION IN VERSIONS ARE EXPLAINED NEAR MARK.

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

SHEET 3

■ Audio section



NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION --- CD STOP MODE Vol.0
2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/8W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN #F(P=pF).
   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 VERSIONS ARE EXPLAINED NEAR MARK.

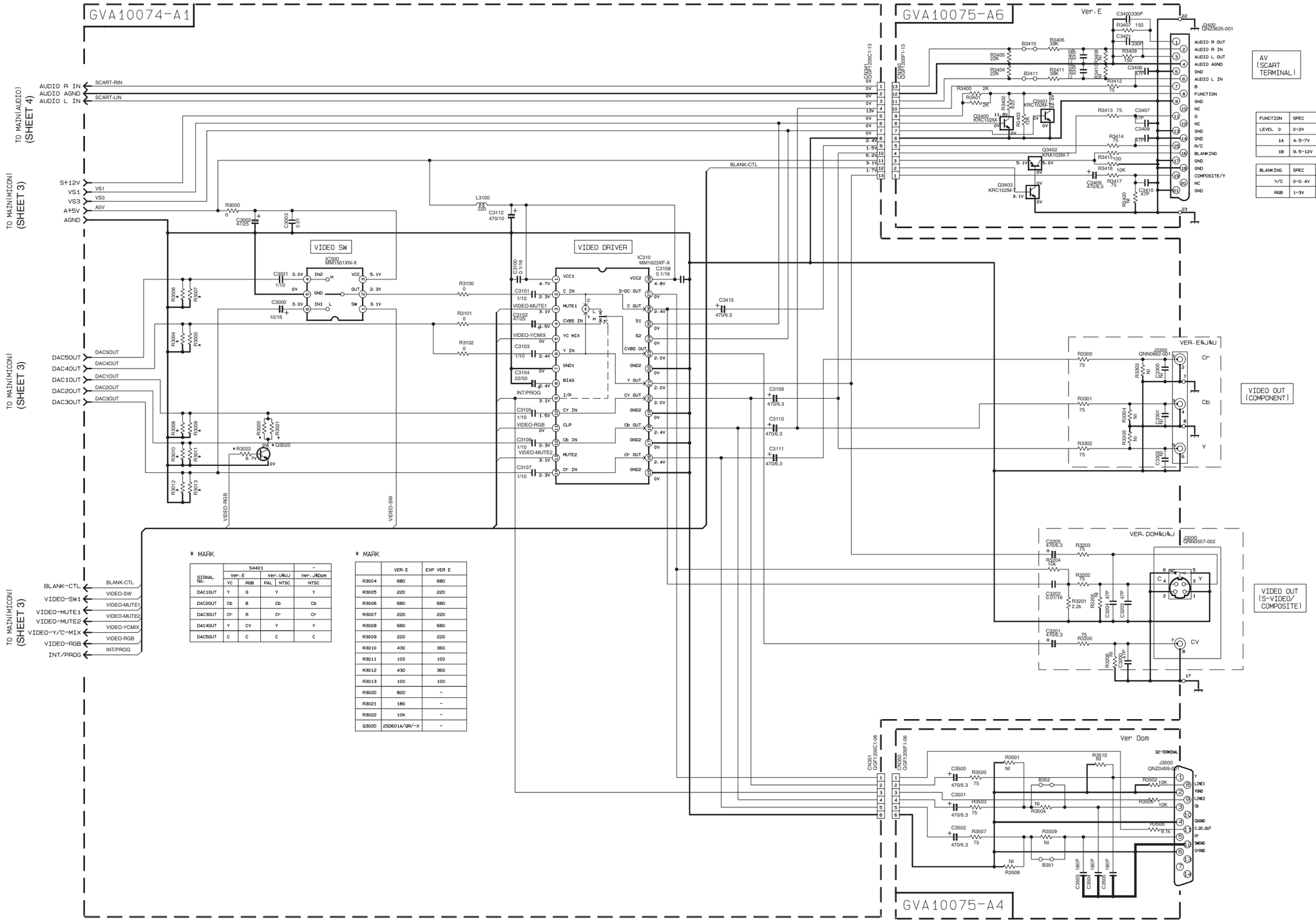
UN2213-X: 47K, 47K
UN211E-X: 47K, 22K
UN2111-X: 10K, 10K

IC/PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
IC200	0V	0V	0V	0V	0V	0V	-5.0V	0V	3.1V	3.1V	0V	0V	0V	0V	0V	5.1V																				
IC220	3.3V	1.5V	3.3V	1.3V	0V	3.3V	1.6V	1.7V	3.2V	1.6V	1.6V	1.6V	3.3V	0V	3.3V	3.3V																				
IC225	3.3V	1.6V	1.7V	3.3V	1.7V	1.7V	0V	1.3V	1.3V	3.3V	0.7V	0.7V	3.3V																							
IC230	3.3V	1.3V	1.3V	0V	1.8V	1.6V	0V	3.3V																												
IC231	1.5V	3.3V	1.7V	1.7V	3.3V	1.5V	0V	3.3V																												
IC235	1.6V	1.7V	1.7V	0V	1.7V	1.7V	3.3V	3.3V	0V	0V	3.3V	0V	1.9V	3.3V																						
IC241	3.3V	0V	3.1V	1.2V	2.5V																															
IC250	0V	0V	0V	32.4V	0V	0V	32.1V	0V	0V	0V	0V	32.1V	0V	0V	32.1V	0V	0V	NC	0V	0V	5.0V	5.0V	3.3V	0V	3.3V	3.3V	3.3V	NC	0V	0V	0V	0V	27.0V	27.0V	32.1V	32.1V
IC254	0V	0V	0V	32.4V	0V	0V	32.1V	0V	0V	0V	0V	32.1V	0V	0V	32.1V	0V	0V	NC	0V	0V	5.0V	5.0V	3.3V	0V	3.3V	3.3V	3.3V	NC	0V	0V	0V	0V	27.0V	27.0V	32.1V	32.1V
IC258	0V	0V	0V	32.4V	0V	0V	32.1V	0V	0V	0V	0V	32.1V	0V	0V	32.1V	0V	0V	NC	NC	0V	0V	5.0V	5.0V	3.3V	0V	3.3V	3.3V	3.3V	NC	0V	0V	0V	0V	27.0V	27.0V	32.1V	32.1V
IC270	0V	0.6V	0.6V	-5.0V	0.6V	0.6V	0V	3.3V																												
IC240	0V	0V	3.3V	0V	2.5V	0V	0V	0V	0V	1.7V	1.7V	3.3V	0V	2.5V	3.2V	0V	0V	3.2V	3.2V	1.6V	1.6V	2.5V	0V	3.3V	1.7V	2.5V	0V	3.3V	0V	0V	0V	0V	0V	3.3V	0V	
IC/PIN	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64								
IC240	2.5V	0V	0V	0V	0V	0V	0V	3.3V	0V	2.5V	0V	0V	0V	0V	2.2V	3.3V	0V	2.5V	NC	NC	NC	NC	3.3V	0V	2.5V	0V	0.6V	0.3V								

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

SHEET 4

■ Video section



FUNCTION	SPEC	10K	∞
LEVEL 0	0-2V	0V	0V
1A	4.5-7V	5.49V	5.91V
1B	9.5-12V	10.4V	12.08V

BLANKING	SPEC	∞
Y/C	0-0.4V	0V
RGB	1-3V	4.9V

* MARK

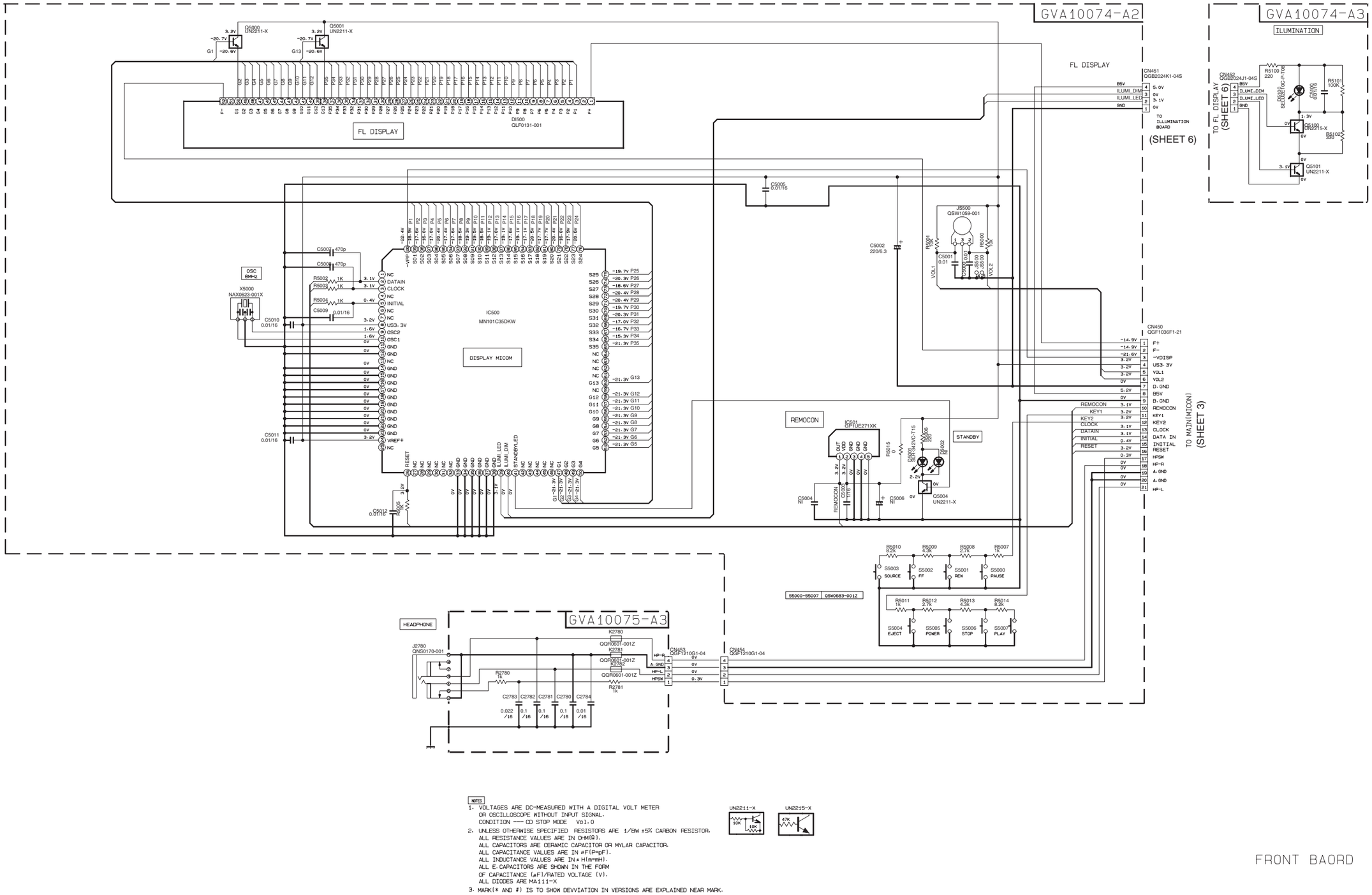
SIGNAL NO.	S4401				–
	Ver.E		Ver.U&U,J		Ver.J&Dom
	YC	RGB	PAL	NTSC	NTSC
DAC1OUT	Y	G	Y	Y	Y
DAC2OUT	Cb	B	Cb	Cb	Cb
DAC3OUT	Cr	R	Cr	Cr	Cr
DAC4OUT	Y	CV	Y	Y	Y
DAC5OUT	C	C	C	C	C

* MARK

	VER.E	EXP VER E
R3004	680	680
R3005	220	220
R3006	680	680
R3007	220	220
R3008	680	680
R3009	220	220
R3010	430	360
R3011	100	100
R3012	430	360
R3013	100	100
R3020	820	–
R3021	180	–
R3022	10K	–
Q3020	2SD601A/QR/-X	–

MAIN(VIDEO) SHEET 5

■ Front section

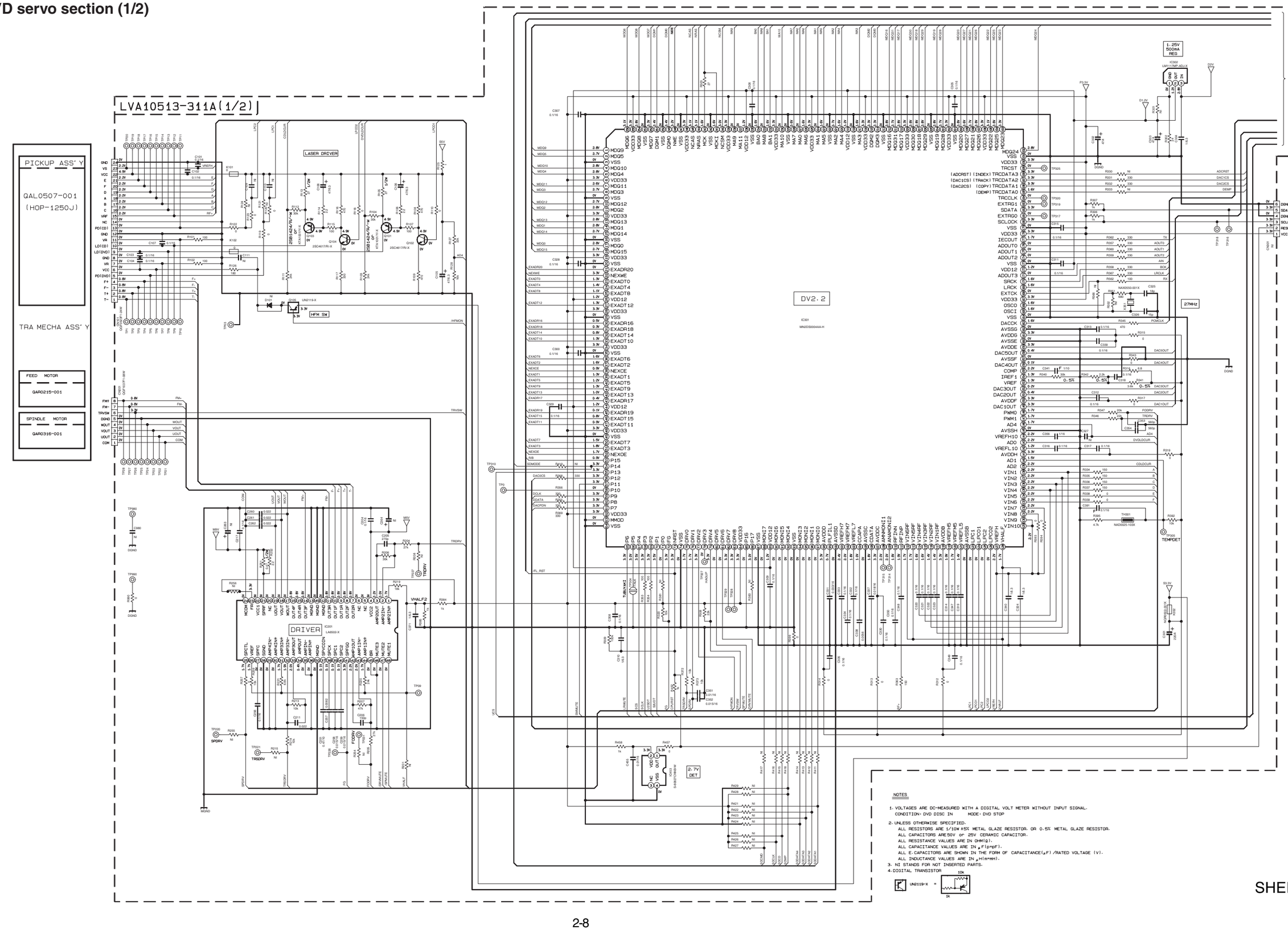


NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION --- CD STOP MODE Vol.0
2. UNLESS OTHERWISE SPECIFIED RESISTORS ARE 1/8W ±5% CARBON RESISTOR. ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN #F(P=pF). 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 VERSIONS ARE EXPLAINED NEAR MARK.

UN2211-X: 10K, 10K
UN2215-X: 47K

SHEET 6

■ DVD servo section (1/2)



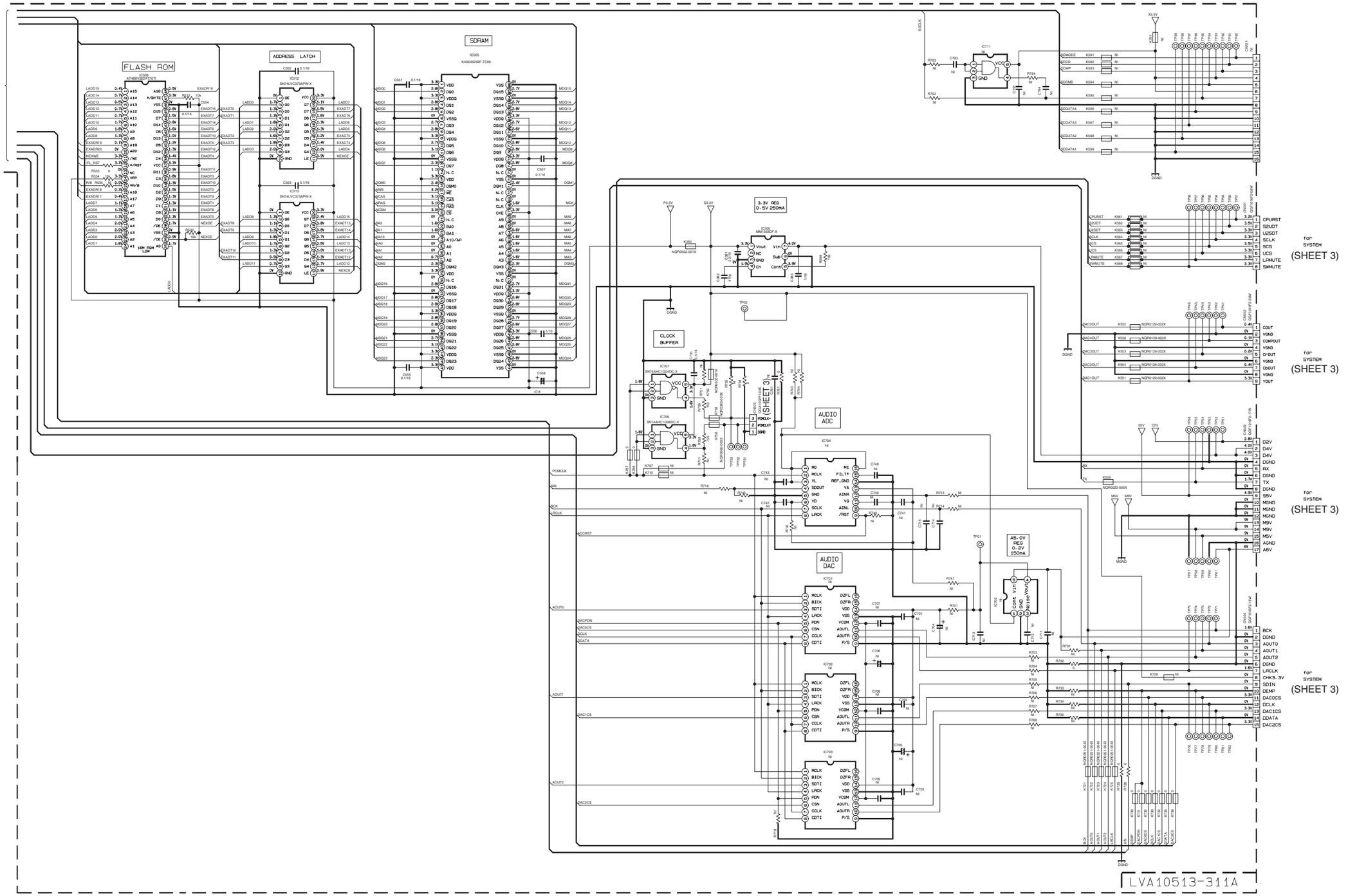
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION: DVD DISC IN MODE: DVD STOP
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR. OR 0.5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V or 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 VOLTAGE (V).
   ALL INDUCTANCE VALUES ARE IN μH(n=nH).
3. NI STANDS FOR NOT INSERTED PARTS.
4. DIGITAL TRANSISTOR

UN2119-X = 10k / 1k

■ DVD servo section (2/2)

(SHEET 7)



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION:DVD DISC IN MODE:DVD STOP

2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR. OR 0.5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V or 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 VOLTAGE (V).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
3. NI STANDS FOR NOT INSERTED PARTS.

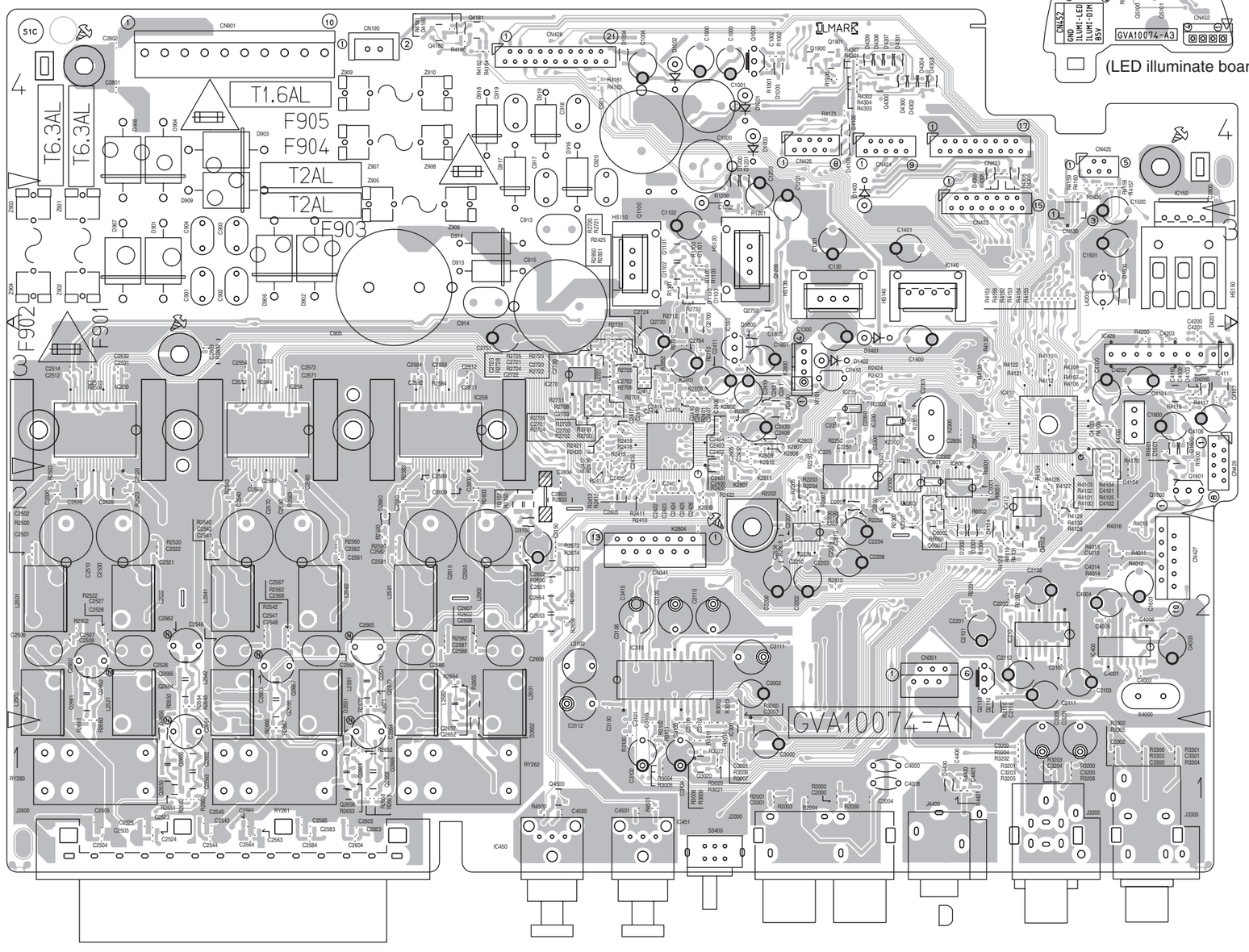
SHEET 8

Printed circuit boards

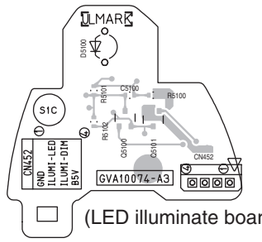
■ Main board (1/2)

Forward side

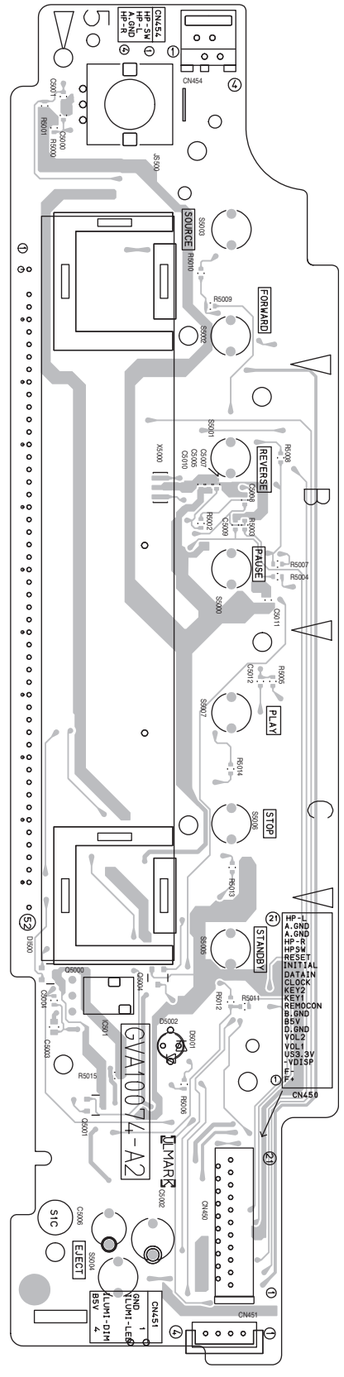
(Main board)



(LED illuminate board)

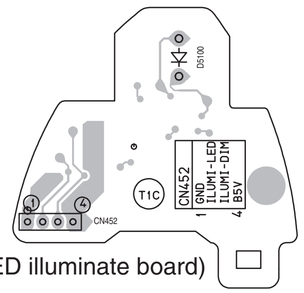


(Front board)



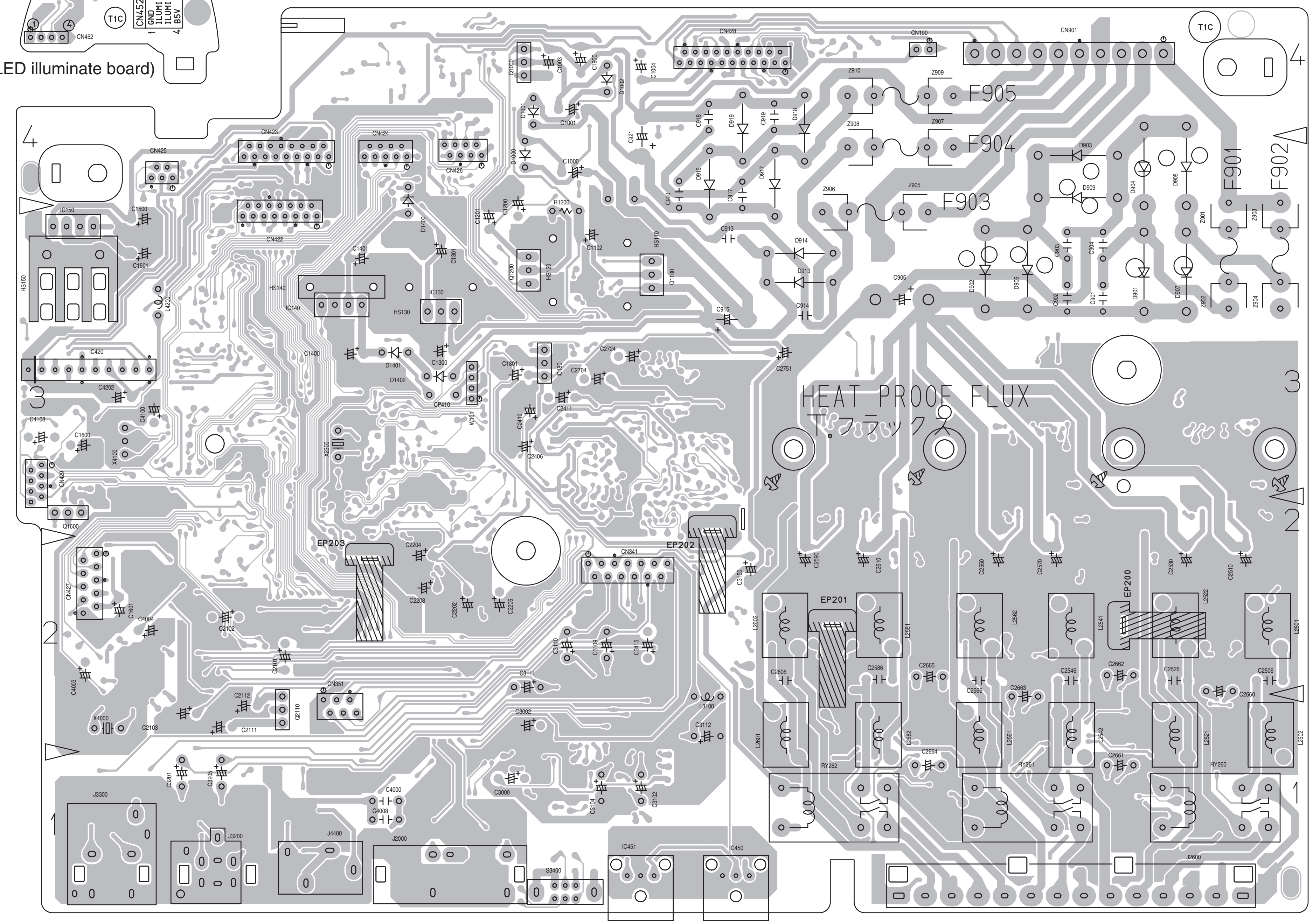
■ Main board (2/2)

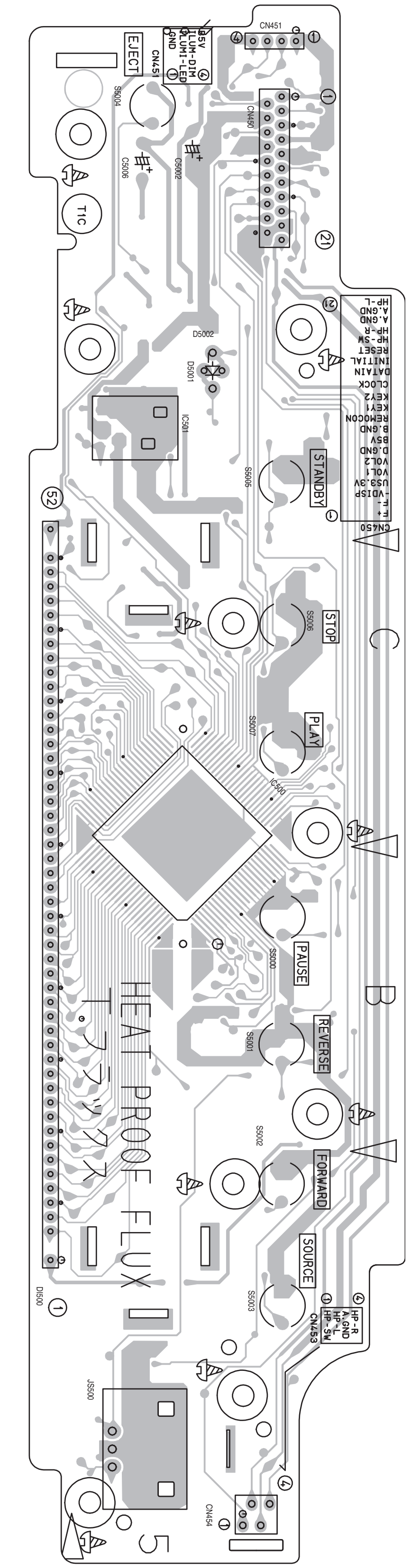
Reverse side



(LED illuminate board)

(Main board)

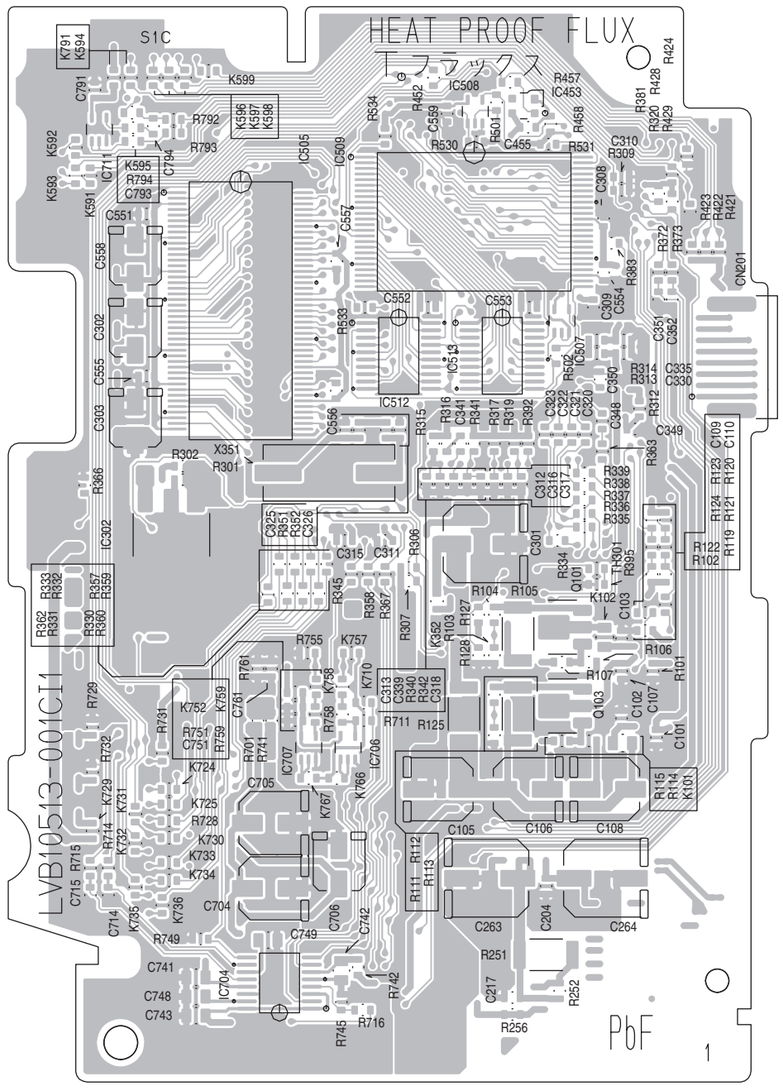




(Front board)

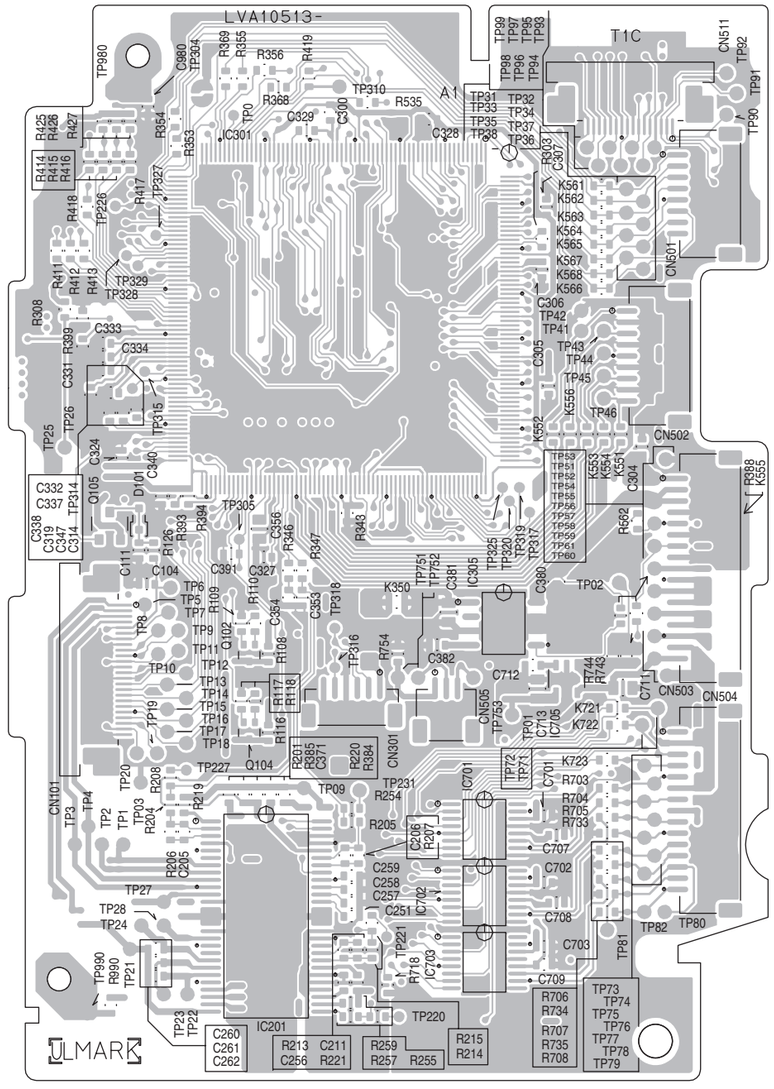
■ DVD servo board (1/2)

Forward side

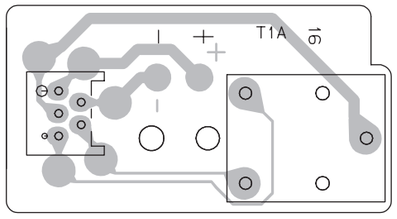


■ DVD servo board (2/2)

Reverse side

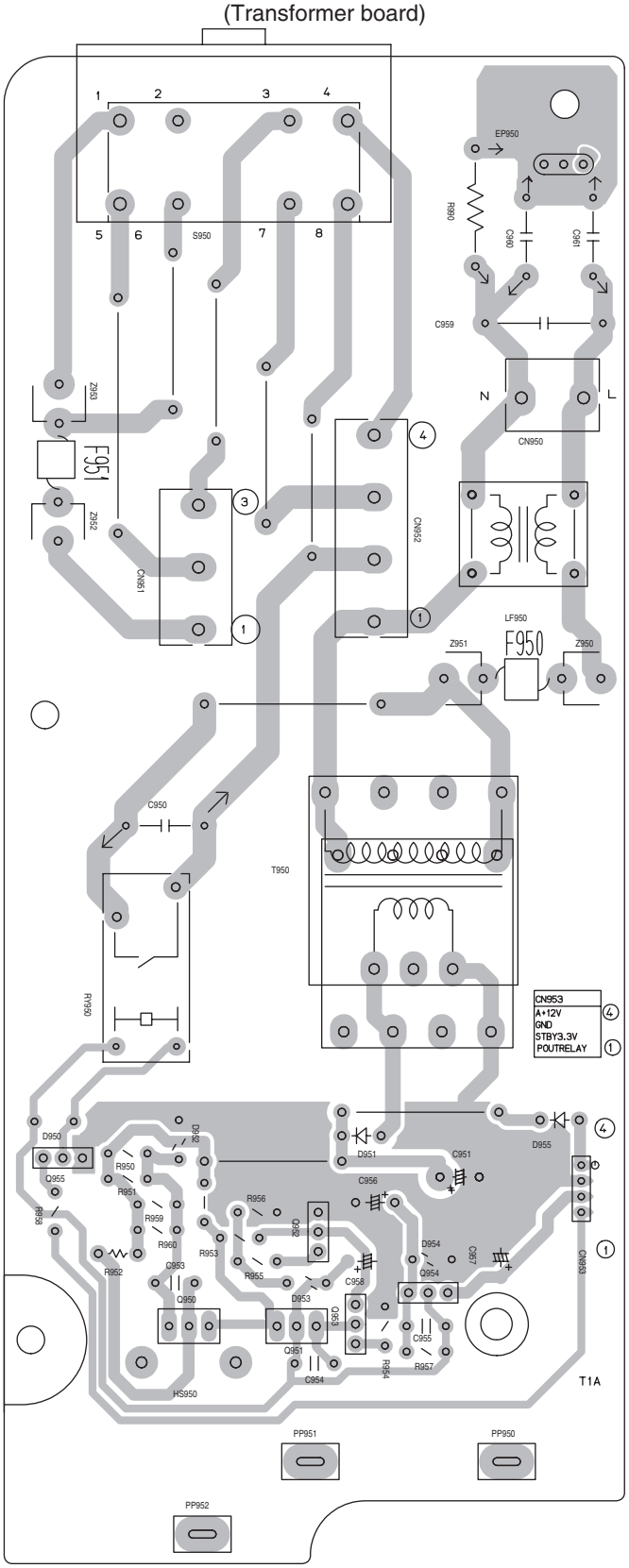


■ DVD loading switch board

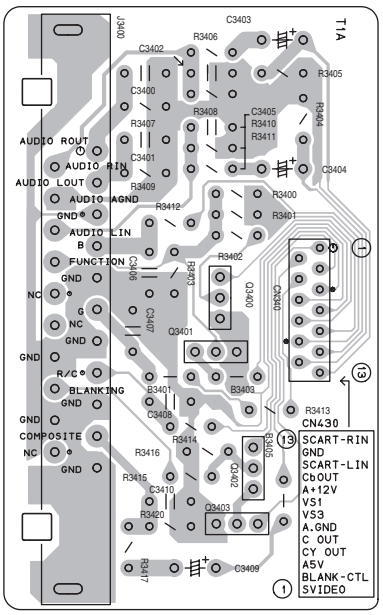


■ Trans board

(Transformer board)



(Scart terminal board)



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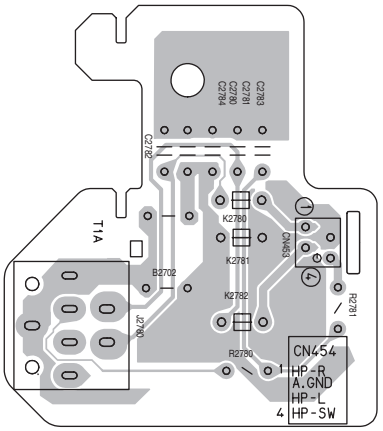

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