

JVC

SERVICE MANUAL

DVD VIDEO PLAYER

XV-N50BK,XV-N55SL

Area Suffix (XV-N50BK)

J U.S.A.
C Canada

Area Suffix (XV-N55SL)

J U.S.A.
C Canada
B U.K.
E Continental Europe
EN Northern Europe
EV Eastern Europe
EE Russian Federation
UF China

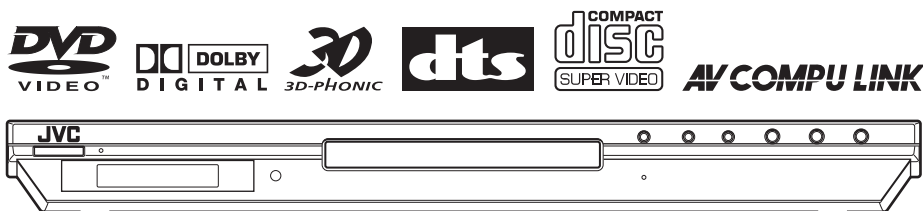


TABLE OF CONTENTS

1	Important Safety Precautions	1-3
2	Disassembly method	1-8
3	Adjustment.....	1-15
4	Description of major ICs.....	1-25

SPECIFICATION

General	Readable discs	DVD VIDEO, DVD-R (Video format), DVDRW(Video format), +RW (Video format),SVCD, Video CD, Audio CD (CD-DA),MP3/WMAformat, JPEG, CD-R/RW(CDDA,SVCD,Video CD, MP3/WMA format, JPEG)
	Video format	NTSC, 480i (Interlaced scan) / 480p(Progressive scan) selectable
Other	Power requirements	AC 120 V, 60 Hz
	Power consumption	11 W (POWER ON), 0.7 W (STANDBYmode)
	Mass	2.1 kg (4.7 lbs)
	Dimensions (W xH x D)	435 mm x 45 mm x 270.5 mm (17-3/16 inch x 2-13/16 inch x 10-11/16 inch)
Video outputs	COMPONENT (pin jacks)	Y Output: 1.0 Vp-p (75 ohm)
		PB/PR Output: 0.7 Vp-p (75 ohm)
	VIDEO OUT (pin jack)	1.0 Vp-p (75 ohm)
	S-VIDEO OUT (S jack)	Y Output: 1.0 Vp-p (75 ohm)
		C Output: 286 mVp-p (75 ohm)
	Horizontal resolution	500 lines or more
Audio outputs	ANALOG OUT (pin jack)	2.0 Vrms (10 kohm)
	DIGITAL OUT (COAXIAL)	0.5 Vp-p (75 ohm termination)
	DIGITAL OUT (OPTICAL)	-21 dBm to -15 dBm (peak)
Audio characteristics	Frequency response	CD (sampling frequency 44.1 kHz):2 Hz to 20 kHz
		DVD (sampling frequency 48 kHz):2 Hz to 22 kHz(4 Hz to 20 kHz for DTS and Dolby Digital bitstream signals)
		DVD (sampling frequency 96 kHz)2 Hz to 44 kHz
	Dynamic range	16 bit: More than 98 dB
		20/24 bit: More than 100 dB
	Wow and flutter	Unmeasurable (less than + 0.002%)
	Total harmonic distortion	less than 0.006%

- Specifications and appearance are subject to change without prior notice.
- Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademark of Dolby Laboratories.
- Manufactured under license from Digital Theater Systems, Inc. “DTS” and “DTS Digital Surround” are registered trademarks of Digital Theater Systems, Inc.

SECTION 1

Important Safety Precautions

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 manufacturer's warranty and will further relieve the manufacturer 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 (Δ) 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.

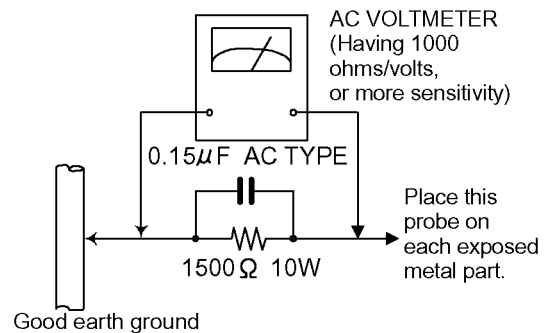
Do not use a line isolation transformer during this check.

- 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, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohm 10W resistor paralleled by a 0.15 μ F 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 pre-forming 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 ($\blacksquare$), diode ($\blacktriangle$) and ICP ($\bullet$) or identified by the " Δ " 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. (Except the JC version)

1.5 Preventing static electricity

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

1.5.1 Grounding to prevent damage by static electricity

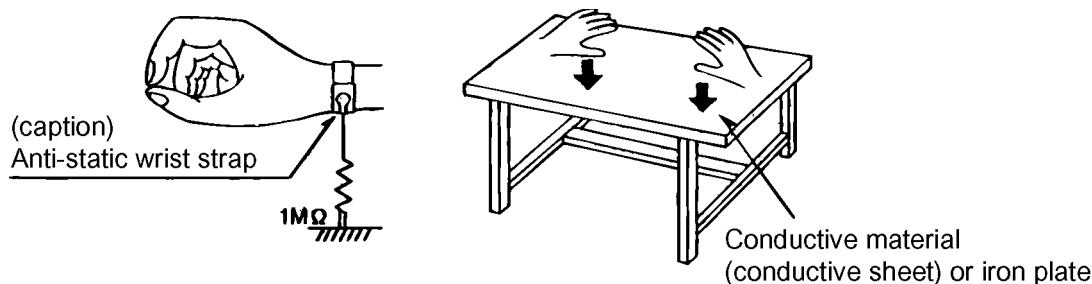
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as DVD players. Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench

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

(2) Ground yourself

Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup

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

1.6 Handling the traverse unit (optical pickup)

(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.

(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.

(3) Handle the flexible cable carefully as it may break when subjected to strong force.

(4) It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

1.8 Important for laser products

- (1) **CLASS 1 LASER PRODUCT**

(2) **DANGER** : Invisible laser radiation when open and interlock 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 compact disc 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 herein may result in hazardous radiation exposure.

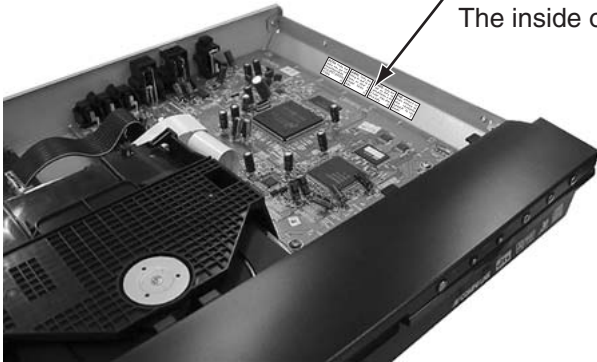
CAUTION
Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

VARNING Osynlig laserstrålning är denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.	ADVARSEL Usynlig laserstrålning ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.
VARO Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.	ADVARSEL Usynlig laserstrålning ved åbning, når sikkerhedsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABEL and PRINT

WARNING LABEL and PRINT

CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	ADVARSEL : Synlig og usynlig laserstrålning når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling. (d)	VARNING : Synlig och osynlig laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	VARO : Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkymättömälle lasersäteilylle. Vältä säteeseen kohdistumista suoraan itseesi. (f)
---	---	--	---



The inside of a chassis base

1.9 Precautions for Service

1.9.1 Handling of Traverse Unit and Laser Pickup

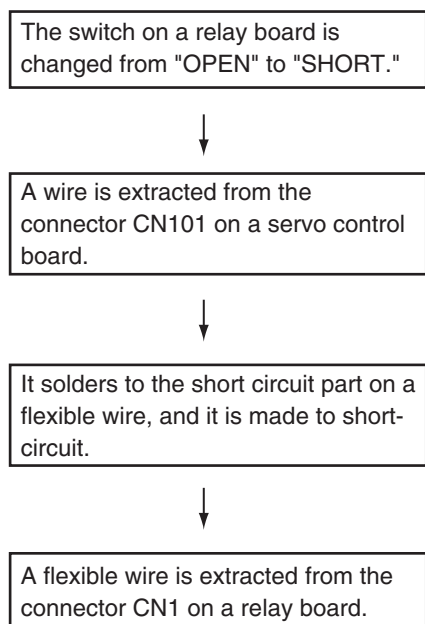
- (1) Do not touch any peripheral element of the pickup or the actuator.
- (2) The traverse unit and the pickup are precision devices and therefore must not be subjected to strong shock.
- (3) Do not use a tester to examine the laser diode. (The diode can easily be destroyed by the internal power supply of the tester.)
- (4) To replace the traverse unit, pull out the metal short pin for protection from charging.
- (5) When replacing the pickup, after mounting a new pickup, remove the solder on the short land which is provided at the center of the flexible wire to open the circuit.
- (6) Half-fixed resistors for laser power adjustment are adjusted in pairs at shipment to match the characteristics of the optical block.
Do not change the setting of these half-fixed resistors for laser power adjustment.

1.9.2 Destruction of Traverse Unit and Laser Pickup by Static Electricity

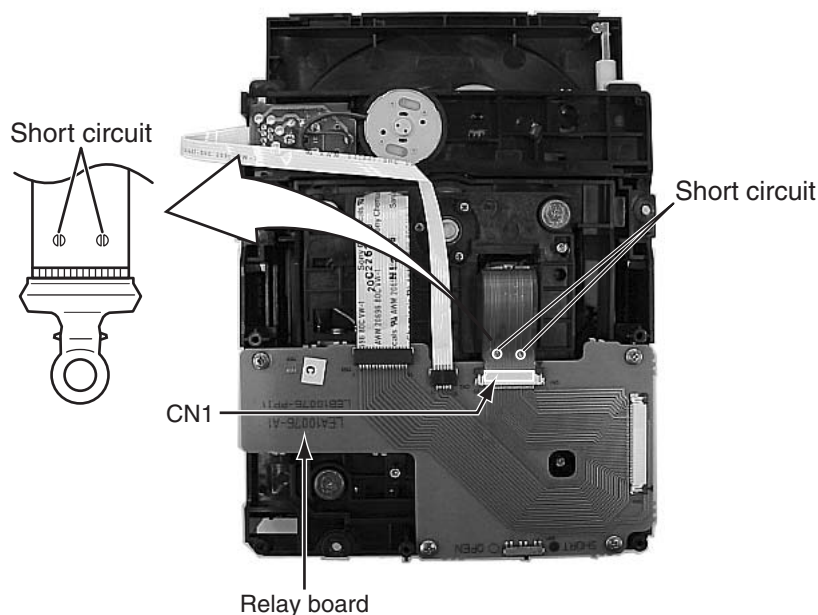
Laser diodes are easily destroyed by static electricity charged on clothing or the human body. Before repairing peripheral elements of the traverse unit or pickup, be sure to take the following electrostatic protection:

- (1) Wear an antistatic wrist wrap.
- (2) With a conductive sheet or a steel plate on the workbench on which the traverse unit or the pick up is to be repaired, ground the sheet or the plate.
- (3) Please be sure to make the switch of a relay board into the "SHORT" side before drawing out a wire from the connector CN101 on a servo control board, when taking out a mechanism assembly from a main body.
And please be sure to make a switch into the "OPEN" side after connecting a wire to CN101, when it mounts a mechanism assembly in a main body.
- (4) After removing the flexible wire from the connector (CN1), short-circuit the flexible wire by the metal clip.
- (5) Short-circuit the laser diode by soldering the land which is provided at the center of the flexible wire for the pickup.
After completing the repair, remove the solder to open the circuit.

The procedure for protecting a pickup



In case you assemble, please do all work conversely.



SECTION 2

Disassembly method

2.1 Main body section

2.1.1 Removing the top cover (See Figure 1)

- (1) Remove the two screws **A** attaching the top cover on both sides of the main body.
- (2) Remove the three screws **B** attaching the top cover on the back of the main body.
- (3) Raise the both sides and lower part of the rear of the top cover, with opening them slightly in an outward direction. And the top cover will be removed.



Fig.1

2.1.2 Removing the front panel assembly (See Figure 2, Figure 3, Figure 4)

- Prior to performing the following procedure, remove the top cover.
- There is no need to remove the mechanism assembly.
- (1) Insert a kind of screwdriver in a hole located in the right side of mechanism assembly, and push a lever until it cannot be inserted any further.
- (2) And then, a tray will come out. Remove the tray in an upper direction, with slightly opening the lower part of fitting in an outward direction.
- (3) Disconnect the card wire from connector CN901 on the power supply board.
- (4) Hook **a** and **b** are removed respectively, and the front panel assembly is removed.

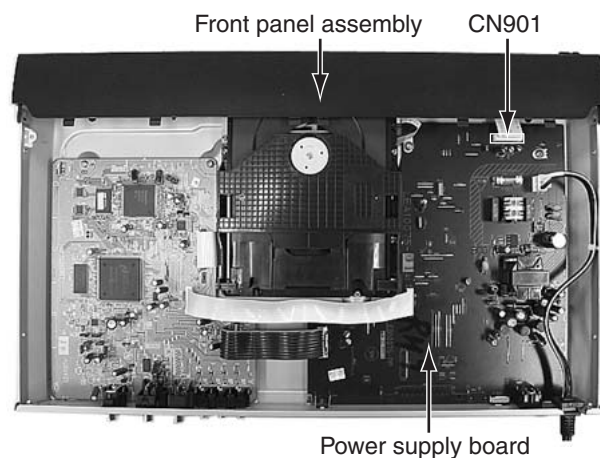


Fig.3

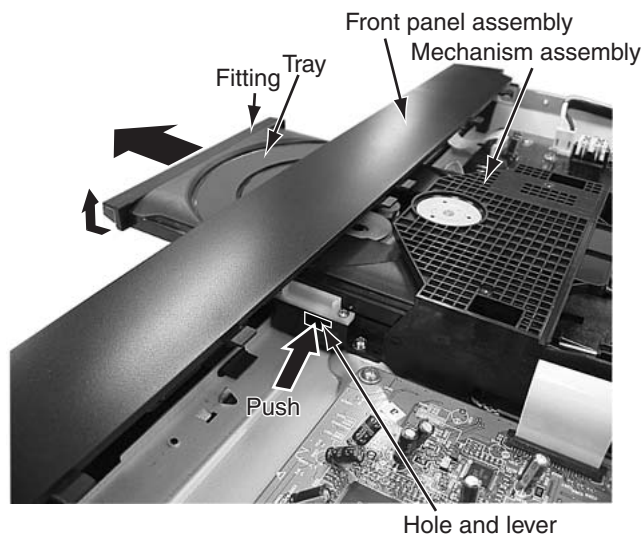


Fig.2

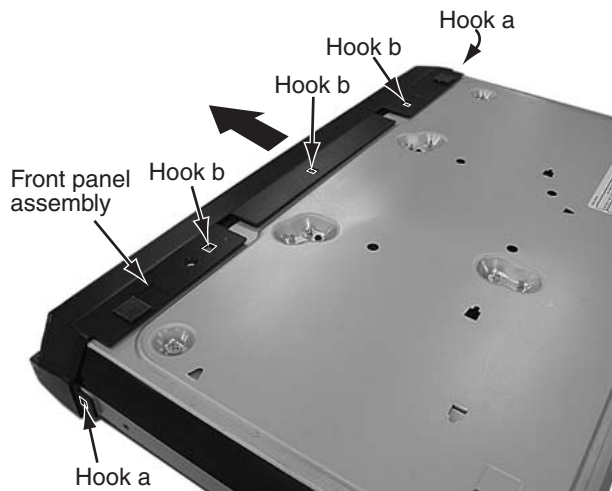


Fig.4

2.1.3 Removing the mechanism assembly (See Figure 2, Figure 5, Figure 6)

- Prior to performing the following procedure, remove the top cover.
- There is no need to remove the front panel assembly.
 - (1) Insert a kind of screwdriver in a hole located in the right side of mechanism assembly, and push a lever until it cannot be inserted any further. (See Figure 2)
 - (2) And then, a tray will come out. Remove the tray in an upper direction, with slightly opening the lower part of fitting in an outward direction. (See Figure 2)
 - (3) Remove the three screws **C** attaching the mechanism assembly.
 - (4) The switch on a relay board is made into the "SHORT" side.
 - (5) Disconnect the card wire from connector CN101 on the servo control and signal output terminal board.
 - (6) Remove the mechanism assembly by lifting the rear part of the mechanism assembly.

ATTENTION:

Please be sure to make the switch on a relay board into a "SHORT" side before disconnect a card wire from the connector CN101 on servo control and signal output terminal board. Moreover, please be sure to make a switch into the "OPEN" side after inserting a card wire in a connector CN101 at the time of an assembly. There is a possibility of destroying the laser diode of a pick-up unit with static electricity.

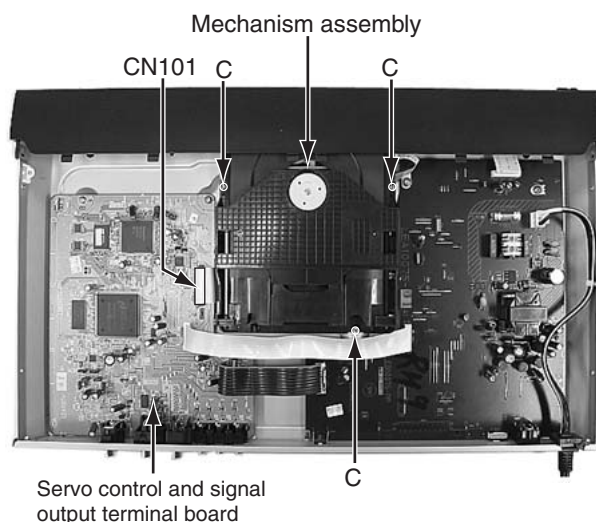


Fig.5

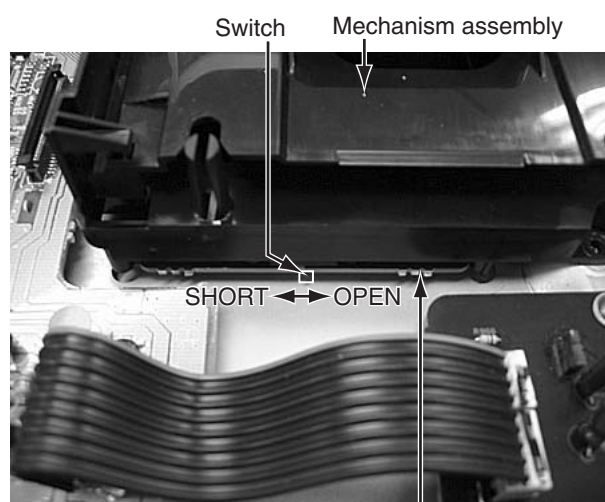


Fig.6

2.1.4 Removing the relay board (See Figure 7)

- Prior to performing the following procedure, remove the mechanism assembly.
 - (1) Remove the four screws **D** attaching the relay board.
 - (2) Disconnect the card wire from connector CN2, CN3 on the relay board respectively.
 - (3) Disconnect the flexible wire from connector CN1 on the relay board from pick-up unit.

ATTENTION:

At this time, please extract the wire after short-circuited of two places on the wire in part **c** with solder. Please remove the solder two places of part **c** after connecting the wire with CN1 when reassembling. There is a possibility of destroying the laser diode of a pick-up unit with static electricity.

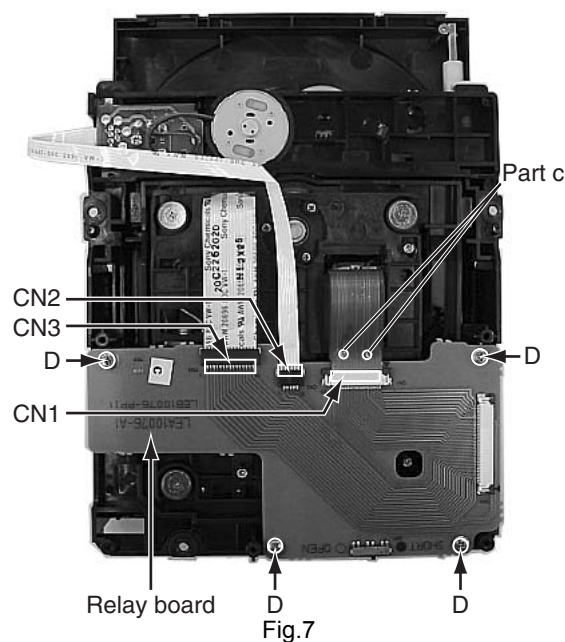
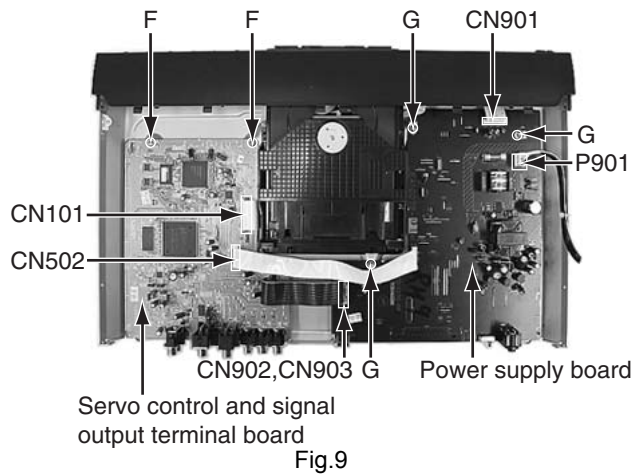
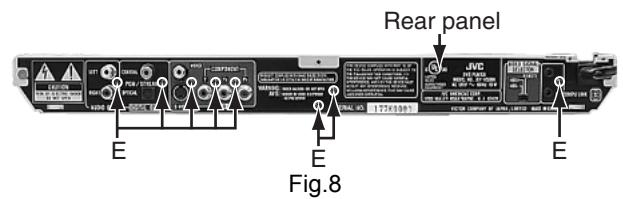


Fig.7

2.1.5 Removing the rear panel (See Figure 8, Figure 9)

- Prior to performing the following procedure, remove the top cover.
- (1) Remove the eight screws **E** attaching the rear panel.
- (2) Disconnect the power cord from connector P901 on the power supply board
- (3) Remove tie band.



2.1.6 Removing the servo control and signal output terminal board. (See Figure 9)

- Prior to performing the following procedure, remove the top cover/rear panel.
- (1) Remove the two screws **F** attaching the servo control and signal output terminal board.
- (2) Disconnect the card wire from connector CN101,CN502 on the servo control and signal output terminal board.
- (3) Disconnect the flat wire from connector CN902,CN903 on the power supply board.

2.1.7 Removing the power supply board. (See Figure 9)

- Prior to performing the following procedure, remove the top cover/rear panel.
- (1) Remove the three screws **G** attaching the power supply board.
- (2) Disconnect the wire from connector CN901,CN902, CN903,CN904 on the power supply board.
- (3) Disconnect the socket wire from socket P901 on the power supply board.

2.2 Loading mechanism assembly

2.2.1 Removing the tray (See Figure 1, Figure 2, Figure 3, Figure 4, Figure 5, Figure 6)

- (1) Push **a** of the slide cam on the hole in the right side of the loading base by using a driver until it stops. (See Figure 1.)
- (2) The tray comes out. Pull the tray in a front direction until it stops.
- (3) Remove the two screws **A** attaching the slide bracket. (See Figure 2.)
- (4) Tilt the tray in a direction of the arrow around the point in the left rear part of the tray. (See Figure 3.)
- (5) The rail of the tray is removed from **b** of the loading base. Then, remove the tray upward. (See Figure 4.)

Attaching the tray:

Engage **c** of the loading base to the projection of the tray while tilting the tray to the left. Turn the tray in a direction of the arrow, and attach the slide bracket. (See Figure 5.)

Note:

Prior to the procedure above, move the slide cam in a direction of the arrow so that **d** of the slide cam can be inserted in **e** of the tray. (See Figure 6.)

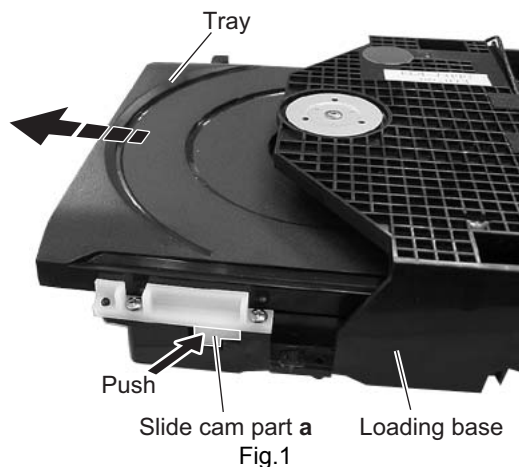


Fig.1

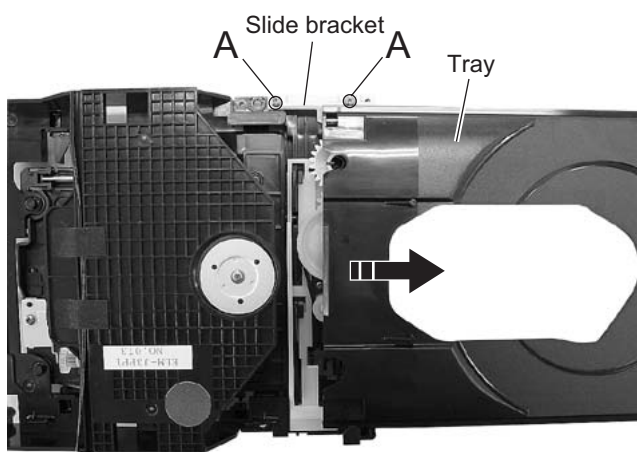


Fig.2

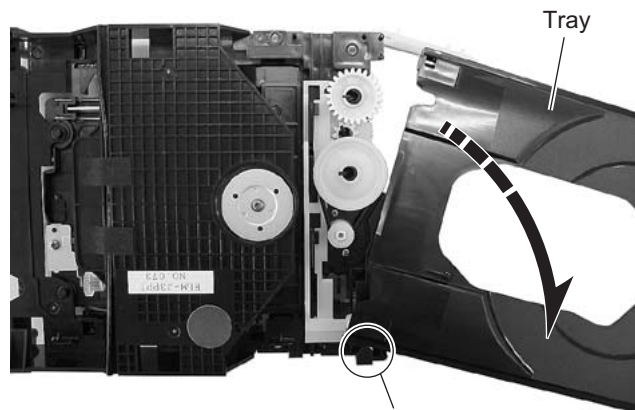


Fig.3

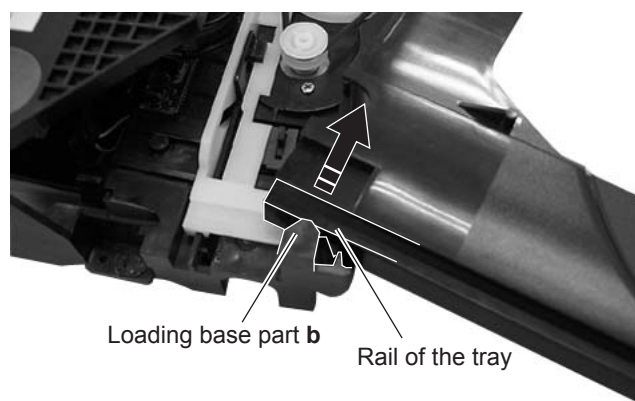


Fig.4

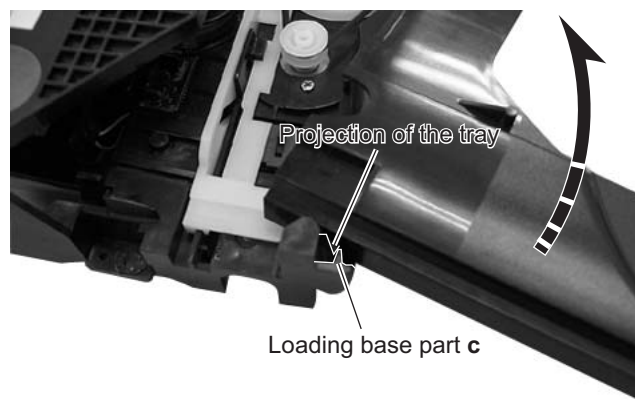


Fig.5

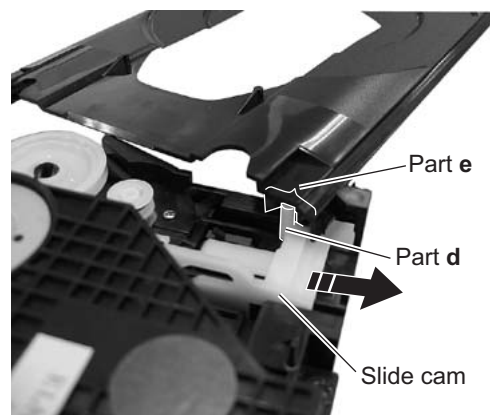


Fig.6

2.2.2 Removing the traverse mechanism assembly (See Figure 7)

Reverse the loading mechanism assembly. Remove the four screws **B** attaching the traverse mechanism assembly. Remove the traverse mechanism assembly upward.

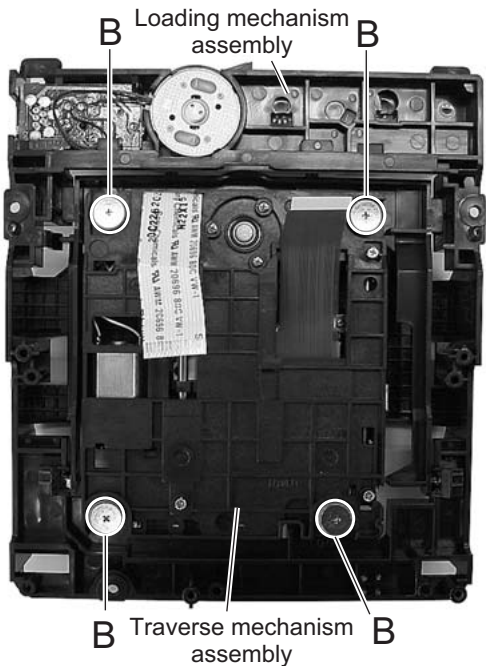


Fig.7

2.2.3 Removing the elevator (See Figure 8 and Figure 9)

- Prior to the following procedure, remove the traverse mechanism assembly.
- (1) Remove the two arms of the elevator from the two parts **f** by moving the arms in a direction of the arrow.
- (2) Pull out the elevator in a rear direction.

Attaching the elevator:

Engage the two holes **g** to the two shafts on the front part of the elevator. And then, attach the elevator.

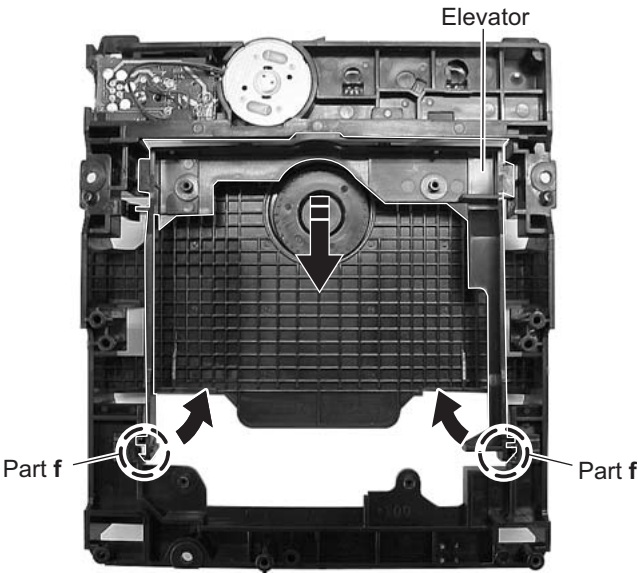


Fig.8

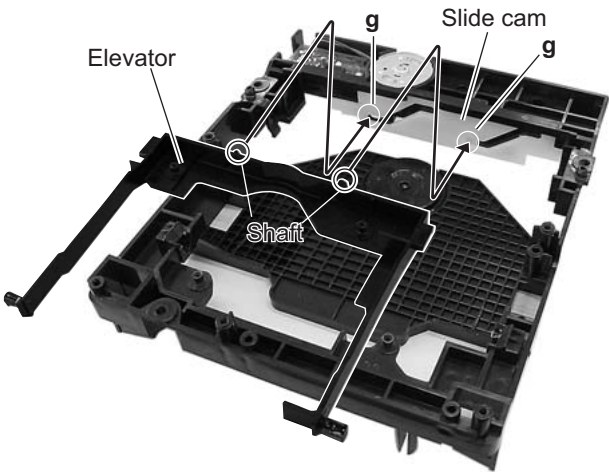


Fig.9

2.2.4 Removing the loading motor (See Figure 10 and Figure 11)

- Prior to the following procedure, remove the tray, the traverse mechanism assembly, and the elevator.
- (1) Remove the belt from the pulley.
 - (2) Remove two screws **C** attaching the loading motor.
 - (3) Remove two solders **h** on the switch board.

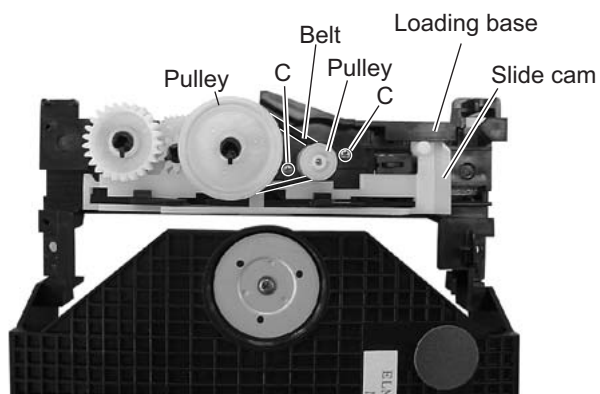


Fig.10

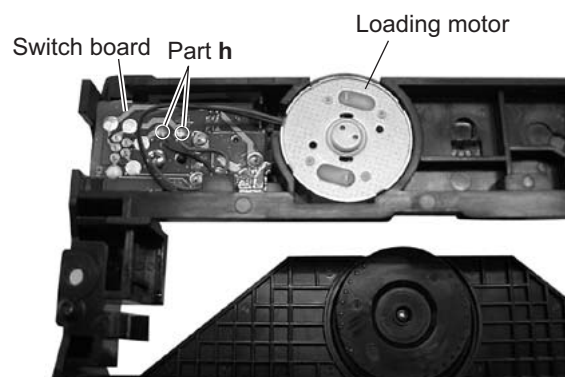


Fig.11

2.3 Traverse mechanism assembly

2.3.1 Removing the pickup (See Figure 12, Figure 13, and Figure 14)

- Prior to the following procedure, remove the traverse mechanism assembly.
 - (1) Remove one screw **D** attaching the plate.
 - (2) Remove the plate and the leaf spring.
 - (3) Lift **i** of the shaft **1**, and pull out the shaft **1** from **j**.
 - (4) Remove **k** of the pickup from the shaft **2**.

Attaching the pickup:

- (1) Engage **k** of the pickup to the shaft **2**.

Note:

- As Figure 14 shows, the spring must come under the shaft **2**.
- (2) Insert the shaft **1** in **j**, and attach the shaft **1** to **i**.
 - (3) Attach the leaf spring, and then attach the plate. Fix the leaf spring and the plate by using the screw **D**.

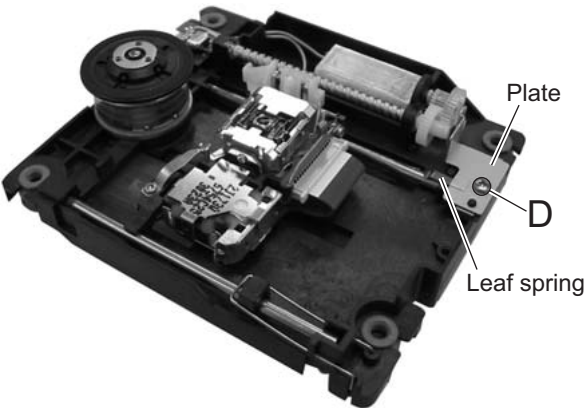


Fig.12

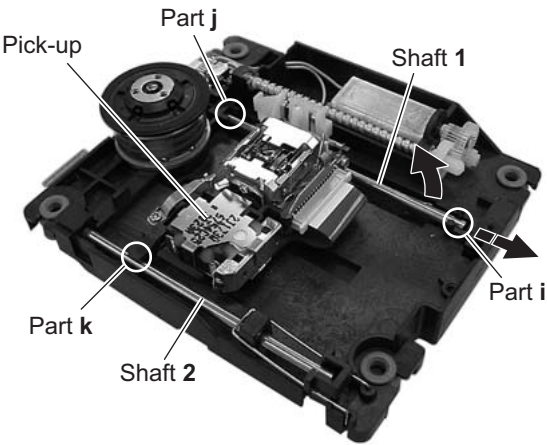


Fig.13

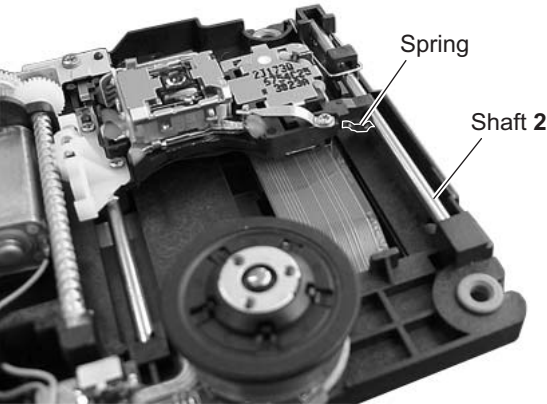


Fig.14

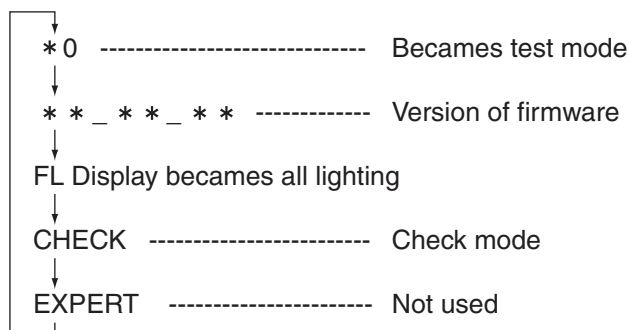
SECTION 3 Adjustment

3.1 Test mode setting method

- (1) Unplug the power plug.
- (2) Insert power plug into outlet while pressing both "PLAY" key and "STOP" key of the main body.
- (3) The FL display shows "*0", and the main body turns to test mode. "*" means the destination, and "0" means parameter adjustment status.
- (4) To release test mode, press "POWER" key of the main body.

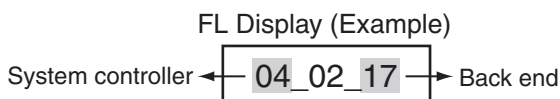
NOTE:

Each pressing of "CHOICE" key of the remote controller in test mode changes the mode as follows.



3.2 Method of displaying version of firmware

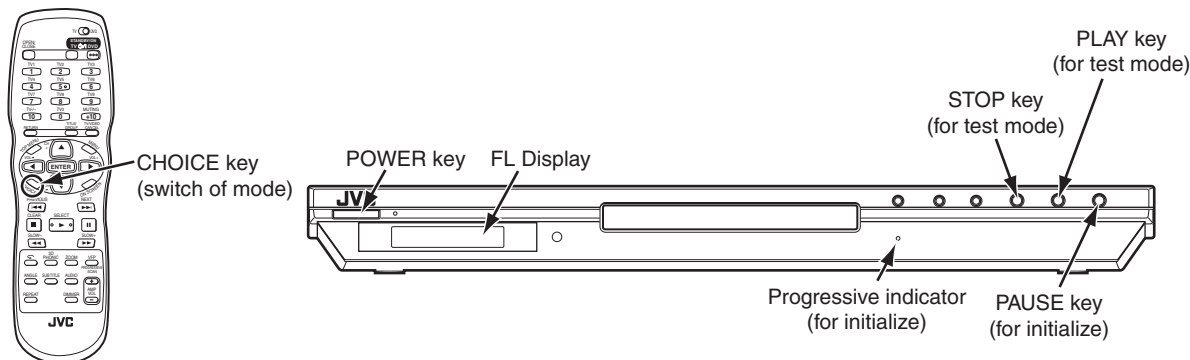
- (1) Set the main body at test mode.
- (2) Press "CHOICE" key of the remote controller once. Then, version number and alphabetical letter of the system controller and the back end are displayed in the FL display as follows:



3.3 Initialization method

Please initialize according to the following procedures in the following case:

- Just after you upgrade the firmware.
- After you confirm the symptoms that a customer points out. First Initialize, and then confirm whether the symptoms are improved or not.
- After servicing, before returning the main body to a customer. (Initialized main body should be returned to a customer.)
 - (1) Set the main body at test mode.
 - (2) Press "PAUSE" key of the main body.
 - (3) When initialization is completed, the FL display changes from "*0" to "*00" and a progressive indicator lights up.
(The left "0" of "00" is not always "0". It shows parameter adjustment status.)



3.4 All-initialization method

Please perform all-initialization according to the following procedures in the following case:

- Just after you exchange the pick-up.
- Just after you exchange the spindle motor.
- Just after you exchange the traverse mechanism base.

NOTE:

Please perform all-initialization when you exchange the parts above and also when you remove the parts above.

- Just after the flap adjustment of the pick-up guide shaft

- (1) Set the main body at test mode.
- (2) Press and hold "BACKWARD SKIP" key of the main body for more than 2 seconds.
- (3) When all-initialization is completed, the FL display changes from "*0" to "*33".

NOTE:

After all-initialization, be sure to perform optimization adjustment of Front End parameter.

3.5 Optimization adjustment of Front End parameter

Adjustment to optimize Front End parameter must be performed in each mechanism assembly of this model for high-speed starting. Please perform optimization according to the following procedures just after all-initialization is completed and when FL display shows anything except "*0" (For example when FL display shows "*1", "*2", and "*3") at test mode.

- (1) Press "POWER" key of the main body to turn the main body on (not to set the main body at test mode).
- (2) Insert the test disc VT-501 or commercial dual-layer DVD software.
- (3) Remove the disc when the FL display changes from "READ" to disc information.
- (4) Perform the same procedures as in (2) and (3) above by using the test disc CTS-1000 or commercial CD-DA software.
- (5) Set the main body at test mode, and check that the FL display shows "*0".

NOTE:

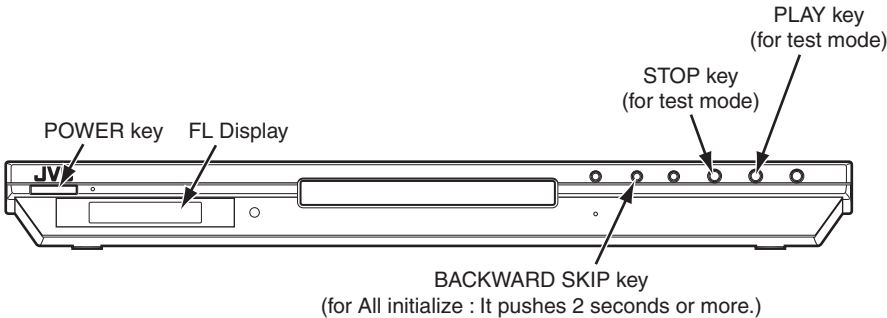
Status of this adjustment can be judged by the number displayed at test mode as follows:

DVD adjustment	CD adjustment	FL display at test mode
Adjusted	Adjusted	*0
Not adjusted	Adjusted	*1
Adjusted	Not adjusted	*2
Not adjusted	Not adjusted	*3

NOTE:

As for a disc used for adjustment,

- Disc should be mounted. ("Mounting" means to display "READ" after the disc is inserted and then display the disc information.) Disc need not be played.
- If you do not have test disc either VT-501 (DVD) or CTS-1000 (CD-DA), use a commercial disc (for DVD, dual-layer software) after seeing and checking that the disc is neither curved nor foreseen that it may shake at the time of playback. If you use a disc with bad features, starting time may be slow or disc may not be read.



3.6 Display of current value of laser

- (1) Set the main body at test mode.
- (2) Press "CHOICE" key of the remote controller three times. Then, FL display is displayed "CHECK".
- (3) The laser current value can be switched between the value of CD and that of DVD by pressing the following key of the remote controller.

FL Display (Example)

2530 0000

Remote controller "4" key --- Laser of CD

Remote controller "5" key --- Laser of DVD

The number shown in the FL display shows mA of current value of laser.

The first two numbers ("25" in "2530") shows current value of laser at the time of adjustment after the latest all-initialization, 25mA in this example.

The last two numbers ("30" in "2530") shows the present current value of laser, 30mA in this example.

The first two numbers ("25" in "2530") usually shows current value of laser at the time of shipment, so you can see how the product has been deteriorated by comparing the first two numbers ("25" in "2530") and the last two numbers ("30" in "2530").

CD:

The laser current value of 49 mA or less is normal.

The laser current value of over 50 mA is not normal. Laser diode of the pickup has been deteriorated.

DVD:

The laser current value of 64 mA or less is normal.

The laser current value of over 65 mA is not normal. Laser diode of the pickup has been deteriorated.

To return to test mode, press "STOP" key of the main body.

3.7 Flap adjustment of the pick-up guide shaft

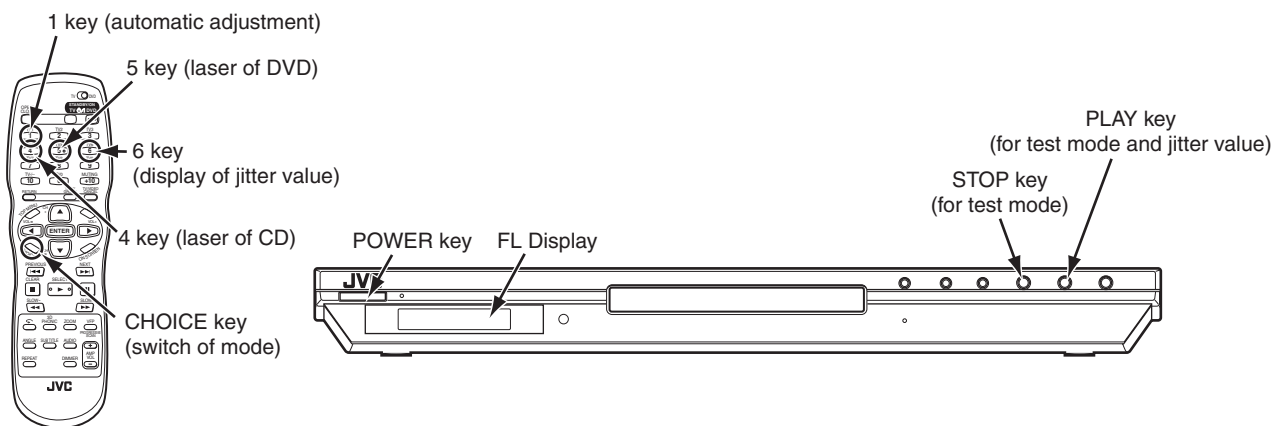
Please perform flap adjustment of the pick-up guide shaft in the following case:

- Just after you exchange the pick-up.
- Just after you exchange the spindle motor.
- Just after you exchange the traverse mechanism base.

NOTE:

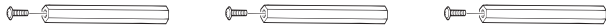
Please perform flap adjustment of the pick-up guide shaft when you exchange the parts above and also when you remove the parts above.

- When the reading accuracy of the signal is bad (There is a block noise in the screen, Screen stops in the outer circumference of a disc, etc.)



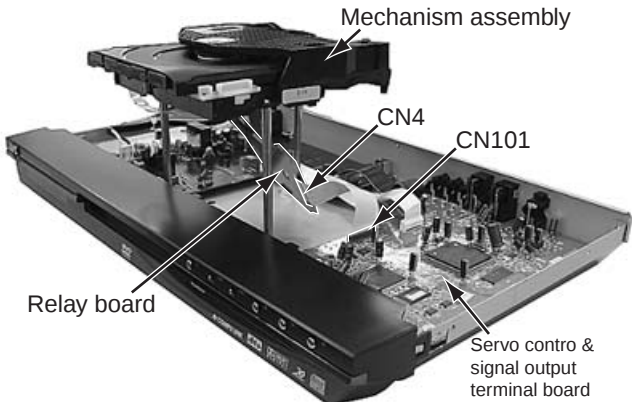
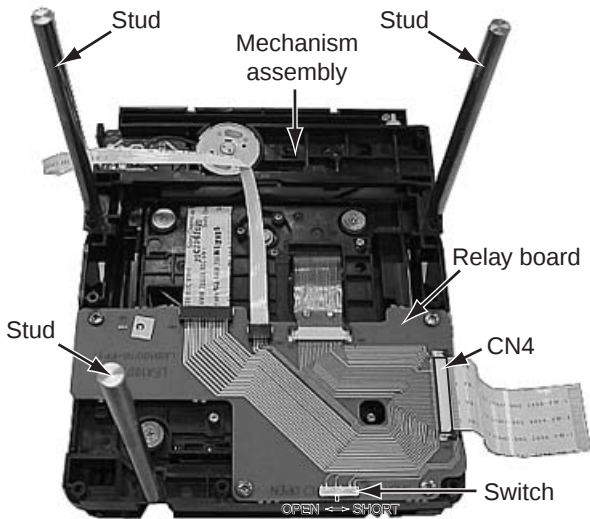
3.7.1 Tool for adjustment

*Stud: One set (four studs), Part number: JIGXVS40 (Note: One of the four studs is not used here.)



3.7.2 Preparation for adjustment

- (1) See the disassembly procedure, and remove the Mechanism assembly from the main body.
- (2) Remove the relay board attached to the mechanism assembly.
(If you disconnect the wires connected to the Relay board, connect them again.)
- (3) Attach the three studs to the Mechanism assembly.
- (4) Put the Mechanism assembly in the center of the main body, and connect the 50 pin wire from the connector CN4 on the Relay board to the connector CN101 on the Servo control & signal output terminal board.



3.7.3 Adjustment

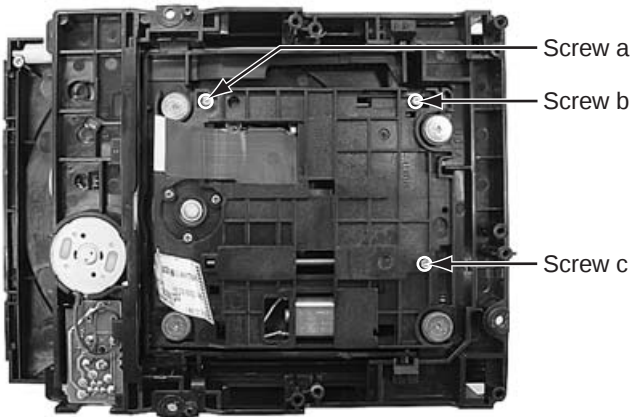
- (1) Set the unit to test mode.
- (2) Press the "CHOICE" key of the remote controller three times, and the FL display is displayed "CHECK".
- (3) Insert a test disc (VT-501), and press the numeric key "1" of the remote controller for automatic adjustment.
- (4) After a few seconds, press the numeric key "6" of the remote controller. Then, the FL display displays a jitter value.
- (5) Turn the adjustment screws on the underside of the traverse mechanism with phillips screw driver until the **maximum** jitter value is displayed on the FL display. (In this model, a bigger jitter value means a better result.)

NOTE:

During operation, the switch on the Relay board should be switched to "OPEN".
Reference values to judge whether the jitter is allowable or not are displayed, instead of actual jitter values.

POINT:

Turn the adjustment screws a and b to the same angle in the right direction. And turn the adjustment screws a and b to the same angle in the left direction. Then, turn the screws a and b in either the right or the left direction to increase the number of jitter. Don't turn the adjustment screw c.



3.8 Upgrading of firmware

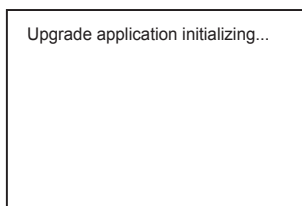
The latest firmware for upgrading is updated in "Optical disc CSG" page in JS-net.

At the time of service, compare the version of the product and the latest version, and upgrade the old version into the latest version.

- (1) Press "POWER" key of the main body to turn the main body on
- (2) Insert the upgrade disc.
- (3) When FL display of the main body changes from "READ" to "UP", press "cursor UP" key (▲) of the remote controller.
- (4) The entire screen becomes blue, and upgrading starts.
- (5) The tray opens automatically. Remove the upgrade disc.
- (6) The screen returns to the normal screen. Then, press "POWER" key of the main body. When the stand-by indicator is lighted, upgrading is completed.
- (7) Set the main body at test mode, and perform initialization. Then, confirm the version of the firmware.



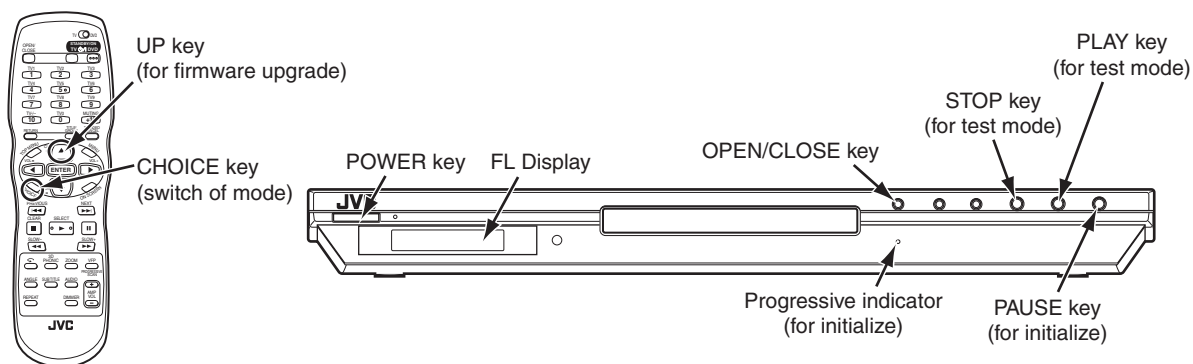
After inserting the up-grade disc



While upgrading (blue screen)



When up-grade is completed



3.9 Attention when pick-up is exchanged

- (1) Flexible wire, pick-up spring, switch actuator, and lead spring are removed from an old pick-up (broken the one).

Guide:

Flexible wire, pick-up spring and switch actuator, lead spring are removed without each decomposing while assembled.

- (2) The above-mentioned parts are installed in a new pick-up (non-defective article).
- (3) A flexible wire is inserted in the connector which has taken side with the pick-up, and solder is put up to short land part "a" two places on a flexible wire.
- (4) The electrostatic breakdown protection circuit attached to the pick-up is cut.

ATTENTION:

Please cut the electrostatic breakdown protection circuit attached to the pick-up after solder is put up to two places on a flexible wire short land part "a" of the insertion of a flexible wire this time in the connector without fail.

The procedure might be mistaken and if solder has not surely adhered to two places on a flexible wire short land part "a", the laser diode in the pick-up be destroyed again.

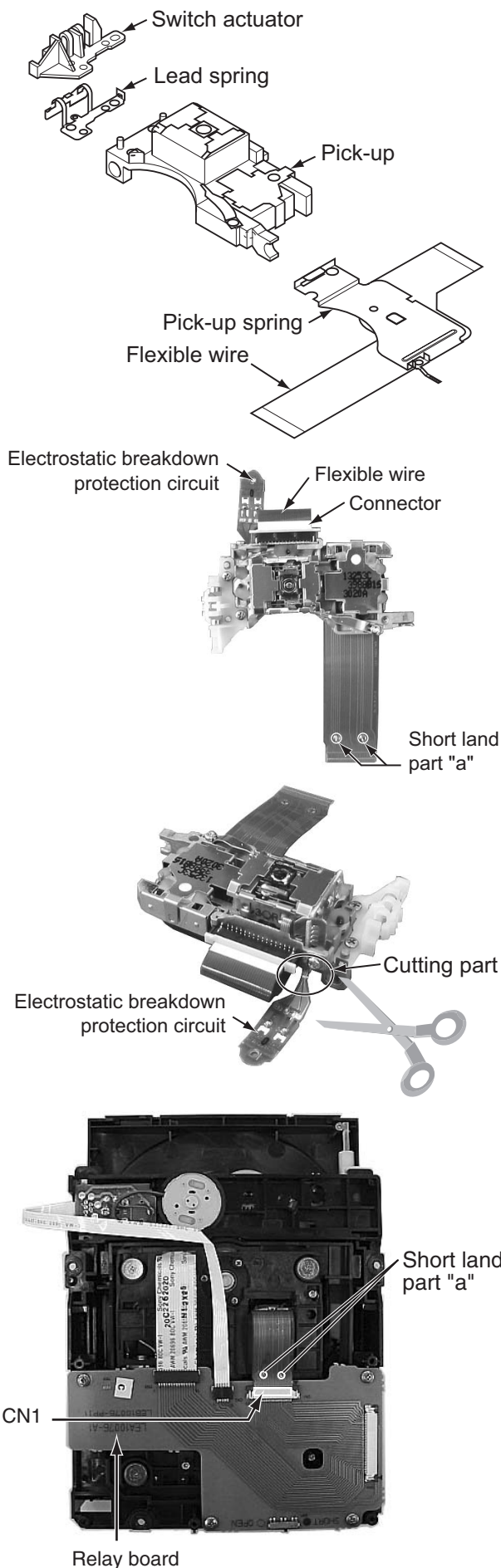
- (5) The pick-up is installed in the traverse mechanism.
- (6) A flexible wire is connected with connector CN101 on the servo control board by installing the traverse mechanism in the loading mechanism.
- (7) Solder in two places on a flexible wire in part "a" is removed.

ATTENTION :

Please remove solder in two places in part "a" after connecting a flexible wire with connector CN1 on the relay board without fail this time.

When the procedure is mistaken, the laser diode in the pick-up might be destroyed.

Please remove solder in two places in part "a" surely.



3.10 Confirm method of operation

Please confirm the operation of the undermentioned item after doing the repair and the upgrade of the firmware.

Initialize	Refer to the initialization method.
All-initialize	Refer to the All-initialization method.
Parameter adjustment status	Set the main body at test mode, and check that the FL display shows "*0".
Opening picture check (Power ON)	It should be display "JVC"
Muting working	The noise must not be had to the performance beginning when you push "PLAY" button or at ON/STANDBY.
FL Display	The mark and the logo, etc. displayed by each operation must be displayed correctly. FL Display should light correctly without any unevenness.
All Function button	All function buttons should worked correctly with moderate click feeling.
Open and close movement of tray	When press OPEN/CLOSE button the tray should move smoothly without any noise.
Remote controller unit working	Check the correctly operation in use of remote controller unit.
Reading of TOC	Be not long in the malfunction.
Search	Both forward-searches and backward-searches should be able to be done. Do not stop be searching or after the search.
Skip	Both forward-skip and backward-skip should be able to be done. Do not stop be after the skip.
Playback	Do not find abnormality etc. of tone quality and the picture quality.
Most outside TITLE playback check	Play VT-501 TITLE 59 CHAPTER 1 , check normal playback.

3.11Troubleshooting

3.11.1 Servo volume

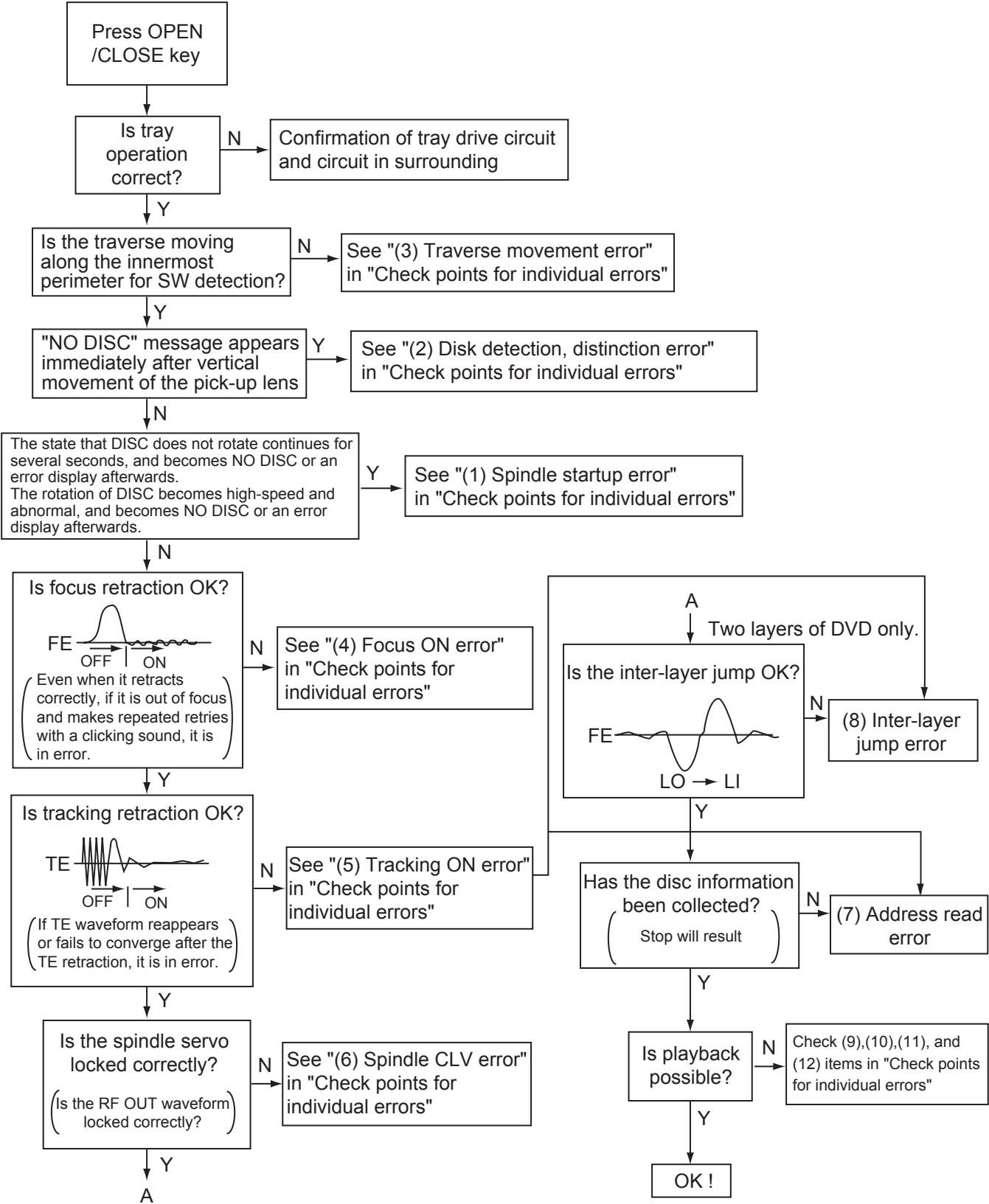


Fig.1

3.12 Check points for each error

3.12.1 Spindle start error

(1) Defective spindle motor

- Are there several ohms resistance between each pin of CN101 "5-6","6-7","5-7"?
(The power supply is turned off and measured.)
- Is the sign wave of about 100mVp-p in the voltage had from each terminal?
[CN101"9"(H1+),"10"(H1-),"11"(H2+),"12"(H2-),"13"(H3+),"14"(H3-)]

(2) Defective spindle motor driver (IC251)

- Has motor drive voltage of a sine wave or a rectangular wave gone out to each terminal(SM1~3) of CN101"5,6,7" and IC251"2,4,7"?
- Is FG pulse output from the terminal of IC251"24"(FG) according to the rotation of the motor?
- Is it "L(about 0.9V)" while terminal of IC251"15"(VH) is rotating the motor?

(3) Has the control signal come from servo IC or the microcomputer?

- Is it "L" while the terminal of IC251"18"(SBRK) is operating?
Is it "H" while the terminal of IC251"23"(/SPMUTE) is operating?
- Is the control signal input to the terminal of IC251"22"(EC)?
(changes from VHALF voltage while the motor is working.)
- Is the VHALF voltage input to the terminal of IC251"21"(ECR)?

(4) Is the FG signal input to the servo IC?

- Is FG pulse input to the terminal of IC301"69"(FG) according to the rotation of the motor?

3.12.2 Disc Detection, Distinction error (no disc, no RFENV)

- Laser is defective.
- Front End Processor is defective (IC101).
- APC circuit is defective. --- Q101,Q102.
- Pattern is defective. --- Lines for CN101 - All patterns which relate to pick-up and patterns between IC101
- IC101 --- For signal from IC101 to IC301, is signal output from IC101 "21" (ASOUT) and IC101 "36"(RFENV) and IC101 "20" (FEOUT)?

3.12.3 Traverse movement NG

(1) Defective traverse driver

- Has the voltage come between terminal of CN101 "49" and "50" ?

(2) Defective BTL driver (IC201)

- Has the motor drive voltage gone out to IC201"17" or "18"?

(3) Has the control signal come from servo IC or the microcomputer?

- Is it "H" while the terminal of IC201"9"(STBY1) ?
- TRSDRV Is the signal input? (IC301 "67")

(4) TRVSW is the signal input from microcomputer? (IC301 "56")

3.12.4 Focus ON NG

- Is FE output ? --- Pattern, IC101
- Is FODRV signal sent ? (R209) --- Pattern, IC301 "115"
- Is driving voltage sent ?
- IC201 "13", "14" --- If NG, pattern, driver, mechanical unit .
- Mechanical unit is defective.

3.12.5 Tracking ON NG

- When the tracking loop cannot be drawn in, TE shape of waves does not settle.
- Mechanical unit is defective.
Because the self adjustment cannot be normally adjusted, the thing which cannot be normally drawn in is thought.
- Periphery of driver (IC201)
Constant or IC it self is defective.
- Servo IC (IC301)
When improperly adjusted due to defective IC.

3.12.6 Spindle CLV NG

- IC101 -- "27"(ARF-), "26(ARF+).
- Does not the input or the output of driver's spindle signal do the grip?
- Has the tracking been turned on?
- Spindle motor and driver is defective.
- Additionally, "IC101 and IC301" and "Mechanism is defective(jitter)", etc. are thought.

3.12.7 Address read NG

- Besides, the undermentioned cause is thought though specific of the cause is difficult because various factors are thought.
Mechanism is defective. (jitter)
IC301
The disc is dirty or the wound has adhered.

3.12.8 Between layers jump NG (double-layer disc only)

Mechanism defective
Defect of driver's IC(IC201)
Defect of servo control IC(IC301)

3.12.9 Neither picture nor sound is output

(1) It is not possible search

- Has the tracking been turned on?
- To "(5) Tracking ON NG" in "Check points for each error" when the tracking is not normal.
- Is the feed operation normal?
To "(3) traverse movement NG" in "Check points for each error" when it is not normal.
Are not there caught of the feeding mechanism etc?

3.12.10 Picture is distorted or abnormal sound occurs at intervals of several seconds.

Is the feed operation normal?
Are not there caught of the feeding mechanism etc?

3.12.11 Others

- The image is sometimes blocked, and the image stops.
- The image is blocked when going to outer though it is normal in surroundings in the disk and the stopping symptom increases.

There is a possibility with bad jitter value for such a symptom.

3.12.12 CD During normal playback operation

(1) Is TOC reading normal?

- Displays total time for CD-DA.
- Shifts to double-speed mode for V-CD

(2) Is playback afterwards possible?

(3) When can not do a normal playback

- --:-- is displayed during FL search.
According to [It is not possible to search] for DVD(9), check the feed and tracking systems.
- No sound is output although the time is displayed.(CA-DA)
DAC, etc, other than servo.
- The passage of time is not stable, or picture is abnormal.(V-CD)
- The wound of the disc and dirt are confirmed.

SECTION 4

Description of major ICs

4.1 74LVC373APW-X (IC512, IC513) : Octal D-type transparent latch

- Pin Layout

OE	1	20	VCC
Q0	2	19	Q7
D0	3	18	D7
D1	4	17	D6
Q1	5	16	Q6
Q2	6	15	Q5
D2	7	14	D5
D3	8	13	D4
Q3	9	12	Q4
GND	10	11	LE

(TOP VIEW)

- Pin function

Symbol	Description
D0-D7	Data Inputs
LE	Latch enable Input (active-high)
OE	Output enable Input (active-low)
Q0-Q7	Data outputs
GND	Connect to ground
Vcc	Power supply

- Truth table

Operating modes	Inputs			Internal latches	Outputs
	OE	LE	Dn		Q0 to Q7
Enable and read register (transparent mode)	L	H	L	L	L
	L	H	H	H	H
Latch and read register	L	L	l	L	H
	L	L	h	H	H
Latch register and disable outputs	H	L	l	L	Z
	H	L	h	H	Z

H=HIGH Voltage Level

h=HIGH Voltage level one setup time prior to the HIGH-to-LOW LE transition

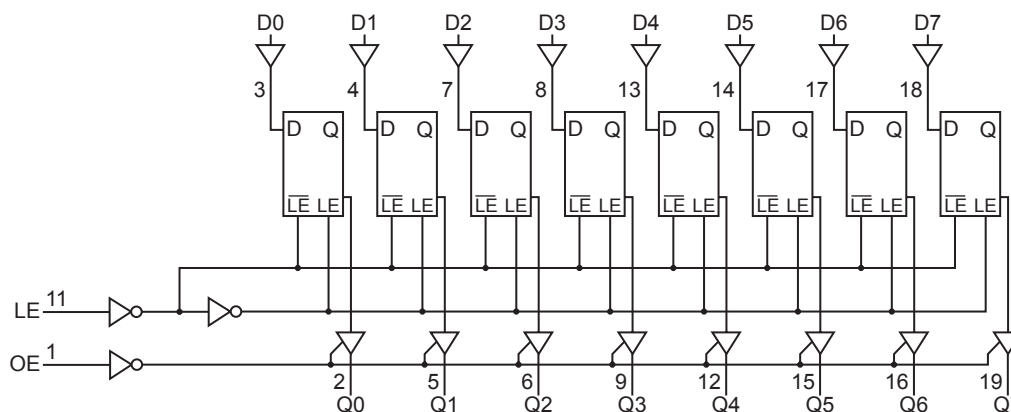
L=LOW Voltage Level

l=LOW Voltage level one setup time prior to the HIGH-to-LOW LE transition

X=Don't care

Z=High Impedance OFF-state

- Block Diagram

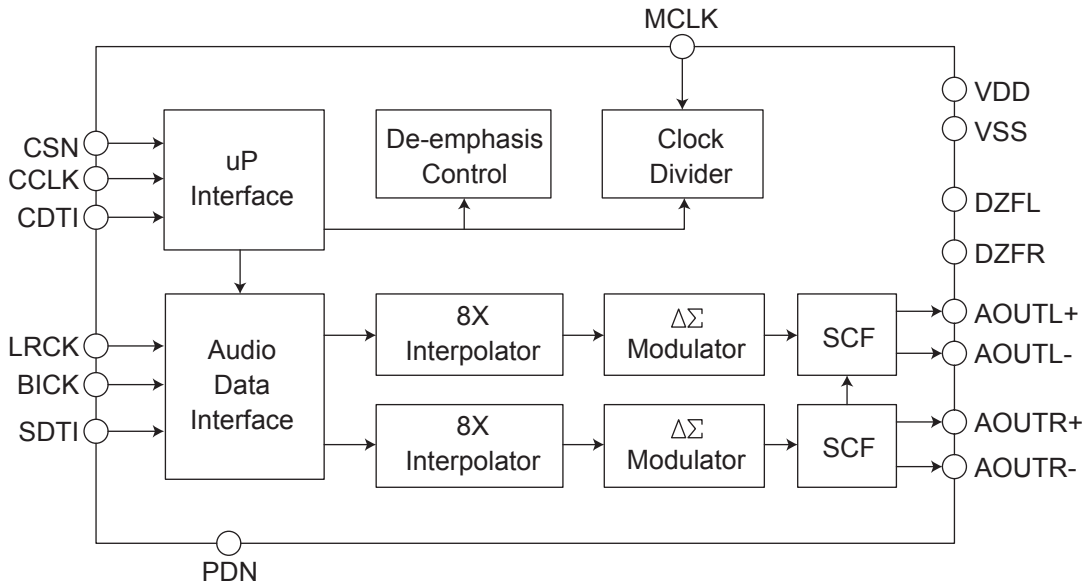


4.2 AK4381VT-X (IC402) : 2ch DAC

- Pin layout

MCLK	1	16	DZFL
BICK	2	15	DZFR
SDTI	3	14	VDD
LRCK	4	13	VSS
PDN	5	12	AOUTL+
CSN	6	11	AOUTL-
CCLK	7	10	AOUTR+
CDTI	8	9	AOUTR-

- Block diagram

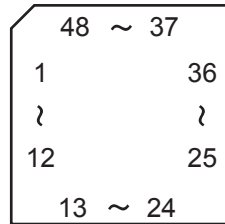


- Pin functions

Pin No.	Symbol	I/O	Description
1	MCLK	I	Master clock input terminal
2	BICK	I	Audio serial data clock terminal
3	SDTI	I	Audio serial data input terminal
4	LRCK	I	L/R Clock terminal
5	PDN	I	Power down mode terminal
6	CSN	I	Chip select
7	CCLK	I	Control data input terminal
8	CDTI	I	Control data input terminal
9	AOUTR-	O	Rch negative analog output terminal
10	AOUTR+	O	Rch positive analog output terminal
11	AOUTL-	O	Lch negative analog output terminal
12	AOUTL+	O	Lch positive analog output terminal
13	VSS	-	Connect to ground
14	VDD	-	Power supply terminal
15	DZFR	O	Rch data zero input detection terminal
16	DZFL	O	Lch data zero input detection terminal

4.3 AN8708FHK(IC101):Frontend processor

- Pin layout

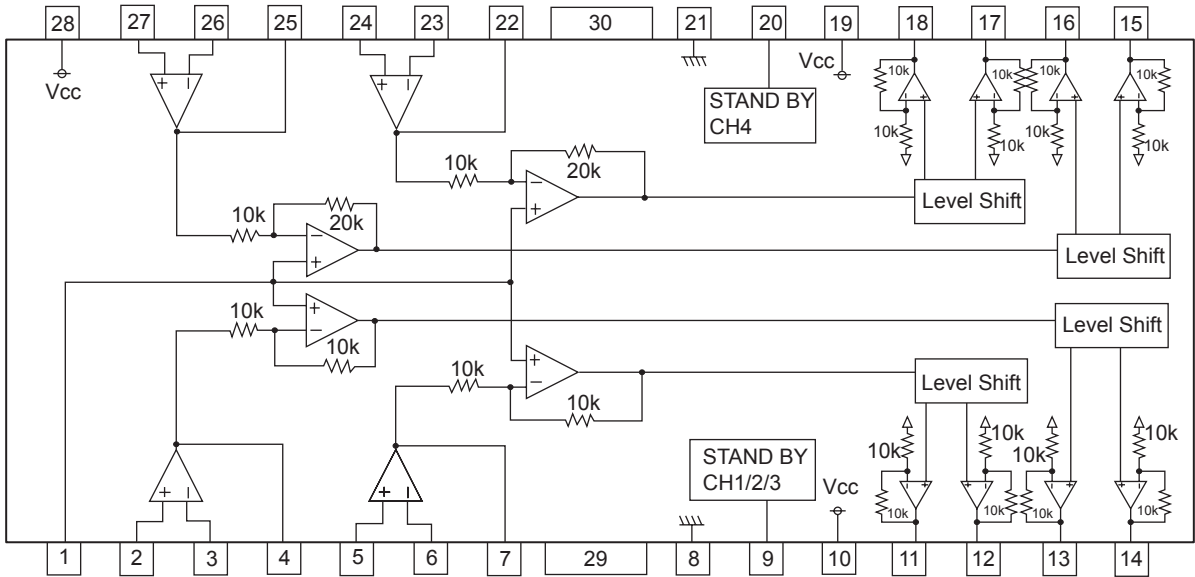


- Pin function

Pin No.	Symbol	I/O	Description
1	GND1	-	Connect to ground
2	LPC1	I	Laser input terminal (DVD)
3	LPC01	O	Laser drive output terminal (DVD)
4	LPC2	I	Laser input terminal (CD)
5	LPC02	O	Laser drive output terminal (CD)
6	FBAL	I	Focus balance control terminal
7	TBAL	I	Tracking balance control terminal
8	POFLT	O	Track detection filter terminal
9	SEN	I	SEN (Serial data input terminal)
10	SCK	I	SCK (Serial data input terminal)
11	STDI	I/O	STDI (Serial data input/output terminal)
12	VRE18	-	RF Standard voltage filter
13	TE	O	Tracking error signal output terminal
14	VSS	-	Connect to ground
15	OFTR	O	OFTR output
16	BDO	O	BDO output
17	VDD	-	Power supply terminal 3 (3.3V)
18	RSCL	-	Source terminal of standard current
19	GND2	-	Connect to ground
20	FE	O	Focus error signal output terminal
21	FS	O	Focus addition signal output terminal
22	VHALF	O	VHALF Voltage output terminal
23	MIRSL	O	MIRROR Slow envelope detection terminal
24	BDOSL	O	BDO Slow envelope detection terminal
25	VCC2	-	Power supply terminal 2 (3.3V)
26	FLTOP	O	Filter amplifier positive output terminal
27	FLTON	O	Filter amplifier negative output terminal
28	SAG	O	SAG Cancel detention terminal
29	DCAGC	O	FLT-DC Cut filter terminal
30	AGCG	O	AGC Amp.gain control terminal
31	TESTSG	I	TEST signal input terminal
32	RFINP	I	RF signal positive input terminal
33	RFINN	I	RF signal negative input terminal
34	DCRF	O	Filter terminal for RF all addition AMP.DC cut
35	PEAK	O	Peak envelope detection filter terminal
36	RFENV	O	RF Envelope output terminal
37	VCC1	-	Power supply terminal 2 (5V)
38,39	VIN5,6	I	Internal four division (CD) RF input terminal 1,2
40,41	VIN7,8	I	External two division (DVD) RF input terminal 1,2
42	VREF	-	VREF Voltage output terminal
43~46	VIN1~4	I	Internal four division (DVD) RF input terminal 1~4
47,48	VIN9,10	I	Three beam sub (CD) input terminal 1,2

4.4 BA5983FM-X (IC201) : 4-channel driver

• Block diagram



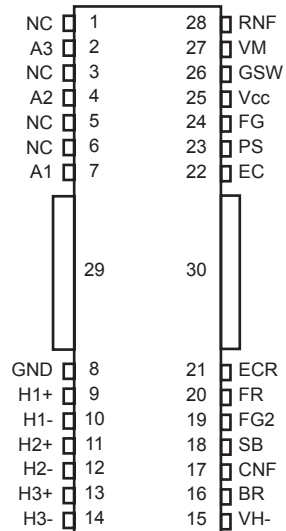
• Pin function

Pin No.	Symbol	I/O	Description
1	BIAS IN	I	Input for Bias-amplifier
2	OPIN1(+)	I	Non inverting input for CH1 OP-AMP
3	OPIN1(-)	I	Inverting input for CH1 OP-AMP
4	OPOUT1	O	Output for CH1 OP-AMP
5	OPIN2(+)	I	Non inverting input for CH2 OP-AMP
6	OPIN2(-)	I	Inverting input for CH2 OP-AMP
7	OPOUT2	O	Output for CH2 OP-AMP
8	GND	-	Substrate ground
9	STBY1	I	Input for CH1/2/3 stand by control
10	PowVcc1	-	Vcc for CH1/2 power block
11	VO2(-)	O	Inverted output of CH2
12	VO2(+)	O	Non inverted output of CH2
13	VO1(-)	O	Inverted output of CH1
14	VO1(+)	O	Non inverted output of CH1
15	VO4(+)	O	Non inverted output of CH4

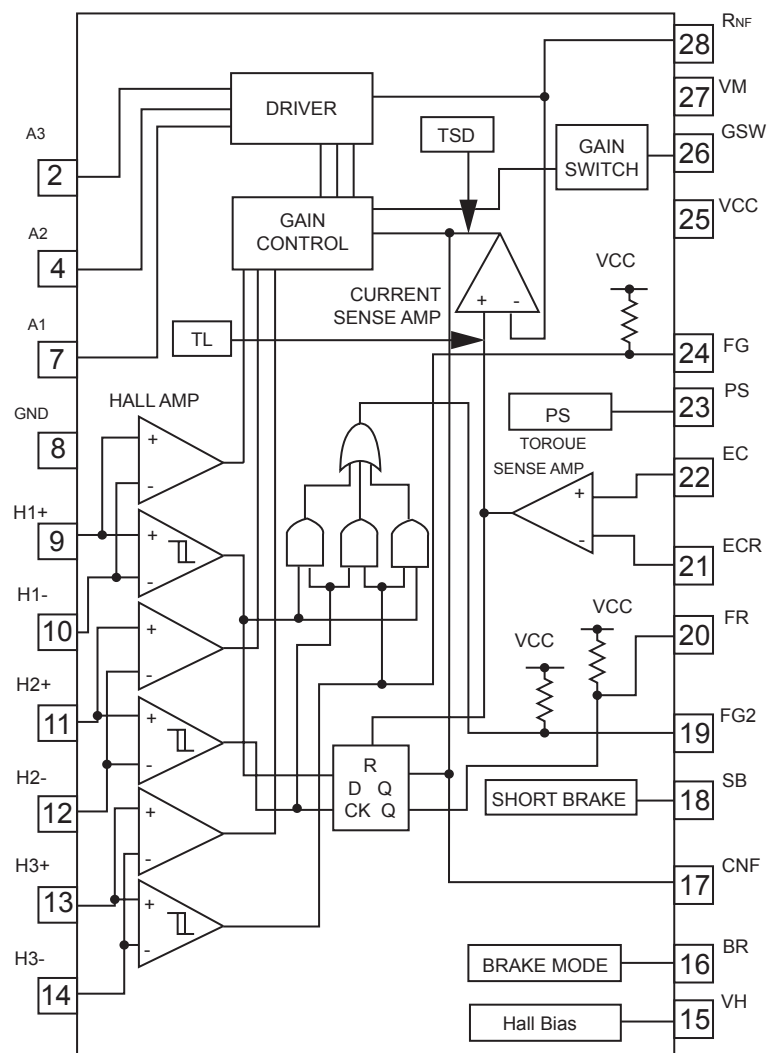
Pin No.	Symbol	I/O	Description
16	VO4(-)	O	Inverted output of CH4
17	VO3(+)	O	Non inverted output of CH3
18	VO3(-)	O	Inverted output of CH3
19	PowVcc2	-	Vcc for CH3/4 power block
20	STBY2	I	Input for Ch4 stand by control
21	GND	-	Substrate ground
22	OPOUT3	O	Output for CH3 OP-AMP
23	OPIN3(-)	I	Inverting input for CH3 OP-AMP
24	OPIN3(+)	I	Non inverting input for CH3 OP-AMP
25	OPOUT4	O	Output for CH4 OP-AMP
26	OPIN4(-)	I	Inverting input for CH4 OP-AMP
27	OPIN4(+)	I	Non inverting input for CH4 OP-AMP
28	PreVcc	-	Vcc for pre block
29		-	Connect to ground
30		-	Connect to ground

4.5 BA6664FM-X (IC251) : Spindle motor driver

- Pin layout



- Block diagram

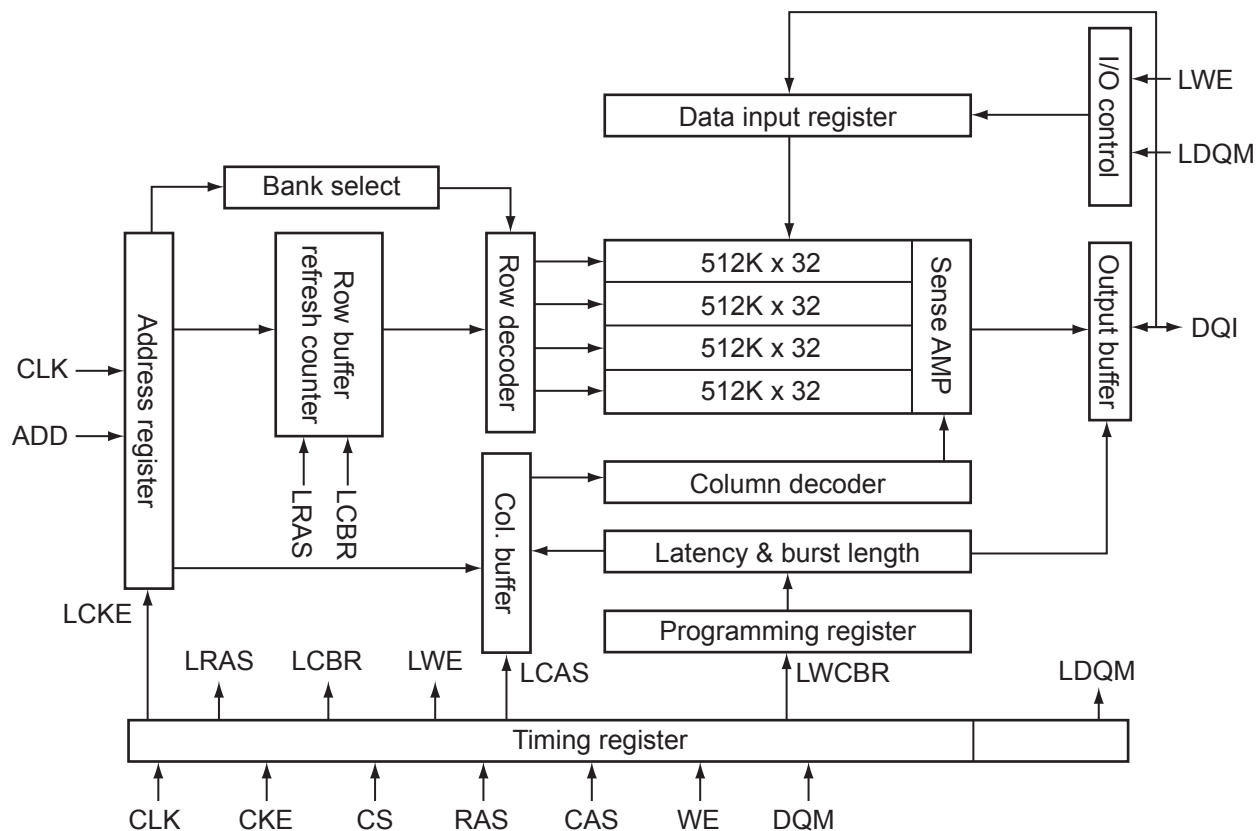


• Pin function (BA6664FM-X)

Pin No.	Symbol	I/O	Description
1	NC	-	Non connect
2	A3	O	Output 3 for spindle motor
3	NC	-	Non connect
4	A2	O	Output 2 for spindle motor
5	NC	-	Non connect
6	NC	-	Non connect
7	A1	O	Output 1 for spindle motor
8	GND	-	Connect to ground
9	H1+	I	Positive input for hall input AMP 1
10	H1-	I	Negative input for hall input AMP 1
11	H2+	I	Positive input for hall input AMP 2
12	H2-	I	Negative input for hall input AMP 2
13	H3+	I	Positive input for hall input AMP 3
14	H3-	I	Negative input for hall input AMP 3
15	VH	I	Hall bias terminal
16	BR	-	Non connect
17	CNF	-	Capacitor connection pin for phase compensation
18	SB	I	Short brake terminal
19	FG2	-	Non connect
20	FR	-	Non connect
21	ECR	I	Torque control standard voltage input terminal
22	EC	I	Torque control voltage input terminal
23	PS	O	Start/stop switch (power save terminal)
24	FG	O	FG signal output terminal
25	VCC	-	Power supply for signal division
26	GSW	O	Gain switch
27	VM	-	Power supply for driver division
28	RNF	O	Resistance connection pin for output current sense
29		-	Connect to ground
30		-	Connect to ground

4.6 K4S643232E-TC60(IC505):DRAM

- Block diagram



- Pin function

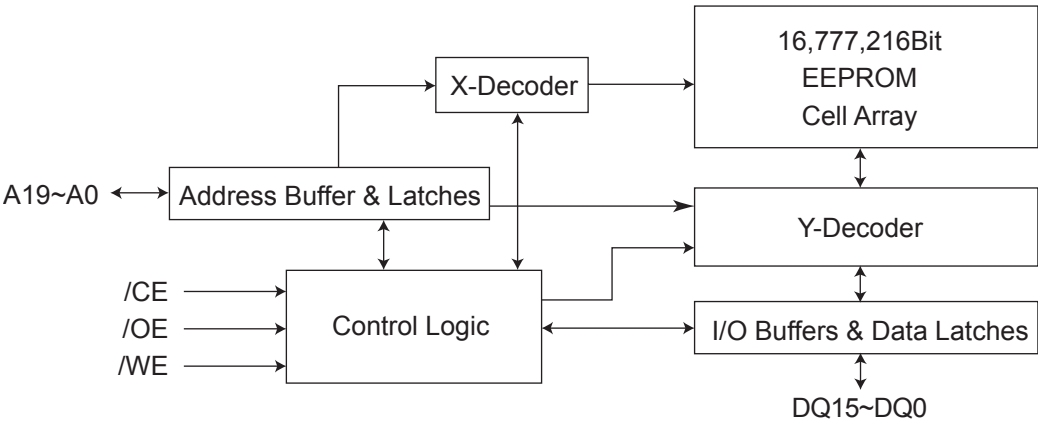
Symbol	Description
CLK	System clock signal input
CS	Chip select input
CKE	Clock enable
A0~A10	Address
BA0,1	Bank select address
RAS	Row address strobe
CAS	Column address strobe
WE	Write enable
DQM0~3	Data input/output mask
DQ0~31	Data input/output
VDD	Power supply terminal
VSS	Connect to ground
VDDQ	Power supply terminal
VSSQ	Connect to ground
NC	Non connect

4.7 SST39VF160-9CEK (IC509) : 16M EEPROM

• Pin layout

A15	1	48	A16
A14	2	47	/BYTE
A13	3	46	Vss
A12	4	45	D15
A11	5	44	D7
A10	6	43	D14
A9	7	42	D6
A8	8	41	D13
A19	9	40	D5
NC	10	39	D12
/WE	11	38	D4
/RST	12	37	VCC
NC	13	36	D11
NC	14	35	D3
R/B	15	34	D10
A18	16	33	D2
A17	17	32	D9
A7	18	31	D1
A6	19	30	D8
A5	20	29	D0
A4	21	28	/OE
A3	22	27	Vss
A2	23	26	/CE
A1	24	25	A0

• Block diagram

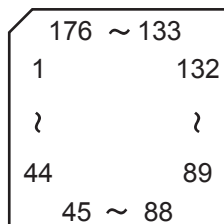


• Pin function

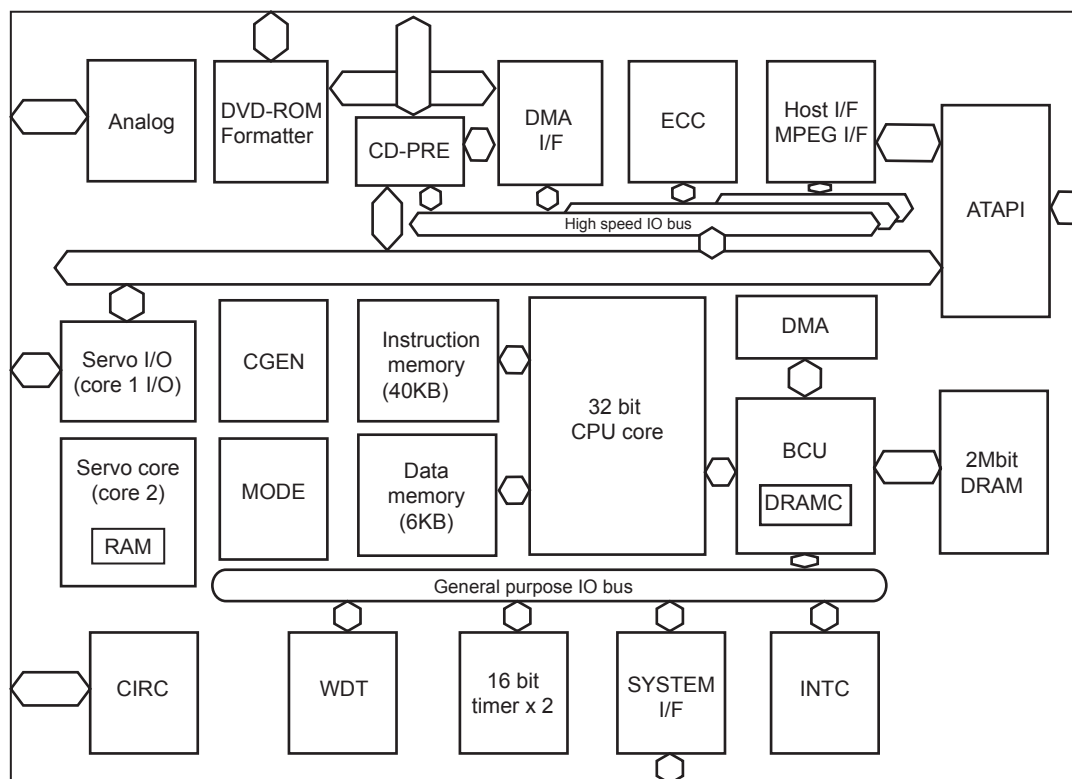
Symbol	Pin name	Function
A19~A0	Address Inputs	To provide memory addresses. During sector erase A19~A11 address lines will select the sector. During block erase A19~A15 address lines will select the block.
DQ15~DQ0	Data Input/Output	To output data during read cycles and receive input data during write cycles. Data is internally latched during a write cycle. The outputs are in tri-state when /OE or /CE is high.
/CE	Chip Enable	To activate the device when /CE is low.
/OE	Output Enable	To gate the data output buffers.
/WE	Write Enable	To control the write operations.
VCC	Power Supply	To provide 3-volt supply (2.7V-3.6V).
Vss	Ground	Connect to ground
NC	No Connection	

4.8 MN103S26EDC-H (IC301) : Super optical disc controller

- Terminal layout



- Block diagram



- Pin function

Pin No.	Symbol	I/O	Description
1,2	NINT0,1	O	Interruption of system control 0,1
3	VDD3	-	Power supply terminal for I/O(3.3V)
4	VSS	-	Connect to ground
5	NINT2	O	Interruption of system control 2
6	WAITDOC	O	Wait control of system control
7	NMPST	O	Reset of system control (Non connect)
8	DASPST	I	Setting of initial value of DASP signal
9~17	CPUADR17~9	I	System control address
18	VDD18	-	Power supply terminal for I/O (1.8V)
19	VSS	-	Connect to ground
20	DRAMVDD18	-	Power supply terminal for DRAM (1.8V)
21	DRAMVSS	-	Connect to ground for DRAM
22~30	CPUADR8~0	I	System control address
31	VDD3	-	Power supply terminal for I/O (3.3V)
32	VSS	-	Connect to ground
33	DRAMVDD3	-	Power supply terminal for DRAM (3.3V)

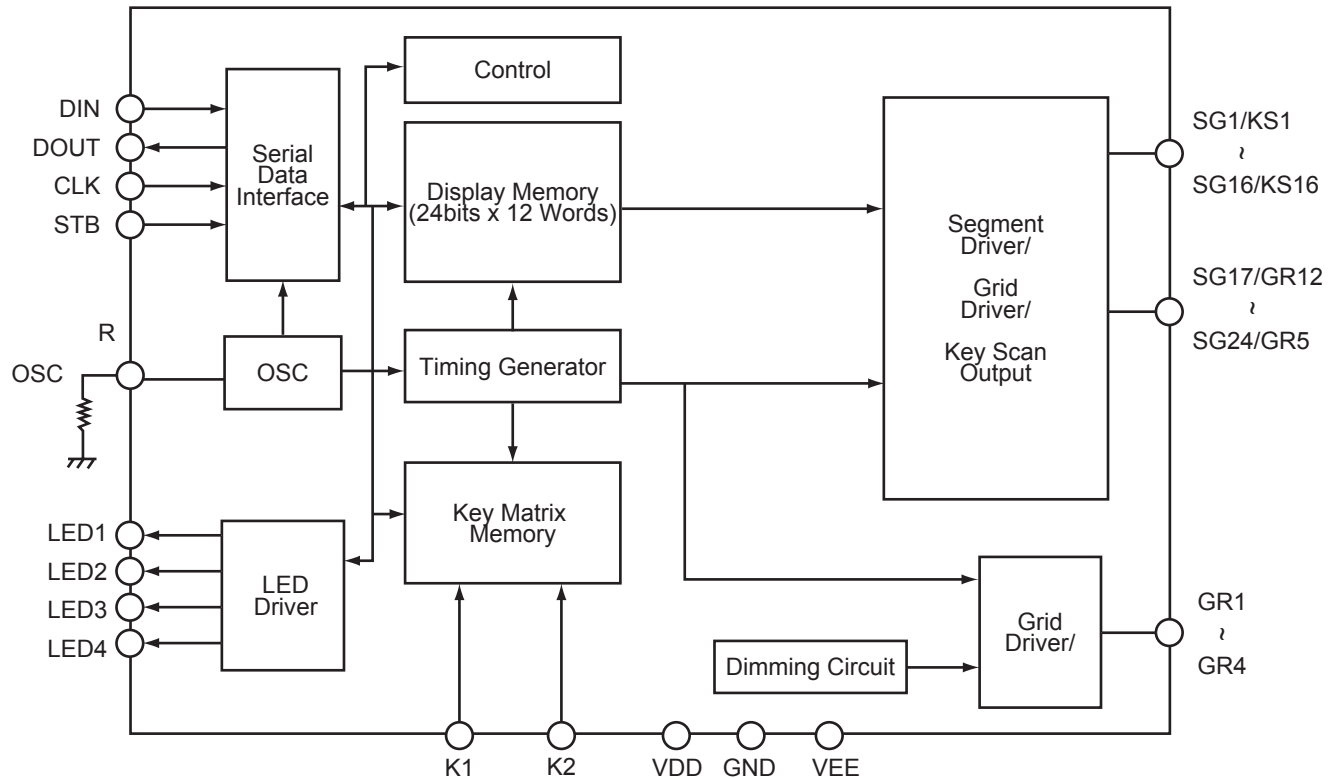
Pin No.	Symbol	I/O	Description
34	NCS	I	System control chip select
35	NWR	I	Writing system control
36	NRD	I	Read signal input from system controller
37~44	CPUDT7~0	I/O	System control data
45	CLKOUT1	-	Non connect
46	MMOD	I	Test mode switch signal
47	NRST	I	System reset
48	MSTPOL	I	Master terminal polarity switch input
49	SCLOCK	-	Non connect
50	SDATA	-	Non connect
51	OFTR	I	Off track signal input
52	BDO	I	Drop out signal input
53	SDOUT	I/O	Serial data input/output terminal
54	CPSCK	O	Clock output for serial data
55	FEPEN	O	Front end processor serial enable signal output
56	PWM4	I	Traverse mechanism inner circumference detect switch
57	VDD3	-	Power supply terminal for I/O (3.3V)
58	DRAMVDD18	-	Power supply terminal for DRAM (1.8V)
59	DRAMVSS	-	Connect to ground for DRAM
60	VSS	-	Connect to ground
61	WOBBLEFIL	-	Non connect
62	PWM6	O	Connect to pick up unit
63	PWM7	O	Short brake terminal
64	PWM8	-	Non connect
65	TBAL	O	Tracking balance adjustment output
66	FBAL	O	Focus balance adjustment output
67	TRSDRV	O	Traverse drive output
68	SPDRV	O	Spindle drive output
69	FG	I	Motor FG input
70	TILTP	-	Non connect
71	TILT	-	Non connect
72	TILTN	-	Non connect
73	TX	O	Digital output signal
74	DTRD	-	Non connect
75	IDGT	-	Non connect
76	VDD18	-	Power supply terminal for I/O (1.8V)
77	VSS	-	Connect to ground
78	VDD3	-	Power supply terminal for I/O (3.3V)
79	OSCI1	I	Oscillation input 16.9MHz
80	OSCO1	O	Oscillation output 16.9MHz
81	VSS	-	Connect to ground
82	TSTSG	O	Calibration signal
83	VFOSHORT	O	VFO short output
84	JLINE	O	J-line setting output
85	AVSS	-	Connect to ground for analog circuit
86	ROUT	-	Non connect

Pin No.	Symbol	I/O	Description
87	LOUT	-	Non connect
88	AVDD	-	Power supply terminal for analog circuit (3.3V)
89	VCOF	I	JFVCO control voltage
90	TRCRS	I	Input signal for track cross formation
91	CMPIN	-	Non connect
92	LPFOUT	-	Non connect
93	LPFIN	I	Pull-up to VHALF
94	AVSS	-	Connect to ground for analog circuit
95	HPFOUT	-	Non connect
96	HPFIN	I	HPF input
97	CSLFLT	I	Pull-up to VHALF
98	RFDIF	-	Non connect
99	AVDD	-	Power supply terminal for analog circuit (3.3V)
100	PLFLT2	I	Connect to capacitor 2 for PLL
101	PLFLT1	I	Connect to capacitor 1 for PLL
102	AVSS	-	Connect to ground for analog circuit
103	RVI	I	Connect to resistor for VREF reference current source
104	VREFH	I	Reference voltage input (2.2V)
105	PLPG	-	Non connect
106	VHALF	I	Reference voltage input (1.65V)
107,108	DSL2,1	I	Connect to capacitor 2,1 for DSL
109	AVDD	-	Power supply terminal for analog circuit (3.3V)
110	NARF	I	Equivalence RF-
111	ARF	I	Equivalence RF+
112	JITOUT	O	Output for jitter signal monitor
113	AVSS	-	Connect to ground for analog circuit
114	DAC0	O	Tracking drive output
115	DAC1	O	Focus drive output
116	AVDD	-	Power supply terminal for analog circuit (3.3V)
117	AD0	I	Focus error input
118	AD1	I	Phase difference/3 beams tracking error
119	AD2	I	AS : Full adder signal
120	AD3	I	RF envelope input
121	AD4	I	DVD laser current control terminal
122	AD5	I	
123	AD6	I	CD laser current control terminal
124	TECAPA	-	Non connect
125	VDD3	-	Power supply terminal for I/O (3.3V)
126	VSS	-	Connect to ground
127	MONI0	-	Connect to TP306
128	MONI1	-	Connect to TP307
129	MONI2	-	Connect to TP308
130	MONI3	-	Connect to TP309
131	NEJECT	I/O	Eject detection
132	NTRYCTL	I/O	Tray close detection
133	NDASP	I/O	ATAPI drive active / slave connect I/O

Pin No.	Symbol	I/O	Description
134	NCS3FX	I	ATAPI host chip select
135	NCS1FX	I	ATAPI host chip select
136	DA2	O	Data sampling clock output
137	DA0	I/O	ATAPI host address 0
138	NPDIAG	I/O	ATAPI slave master diagnosis input
139	DA1	I/O	ATAPI host address 1
140	NIOCS16	-	Non connect
141	INTRQ	O	ATAPI host interruption output
142	NDMACK	I	ATAPI host DMA characteristic
143	VDD3	-	Power supply terminal I/O (3.3V)
144	VSS	-	Connect to ground
145	IORDY	-	Non connect
146	NIORD	I/O	ATAPI host read
147	NIOWR	-	Non connect
148	DMARQ	-	Non connect
149	HDD15	I/O	ATAPI host data 15
150	HDD0	I/O	ATAPI host data 0
151	HDD14	I/O	ATAPI host data 14
152	VDD18	-	Power supply terminal for I/O (1.8V)
153	PO	I	Connect to ground
154	UATASEL	I	Connect to ground
155	VSS	-	Connect to ground
156	VDD3	-	Power supply terminal for I/O (3.3V)
157	HDD1	I/O	ATAPI host data 1
158	HDD13	I/O	ATAPI host data 13
159	HDD2	I/O	ATAPI host data 2
160	HDD12	I/O	ATAPI host data 12
161	HDD3	I/O	ATAPI host data 3
162	VDD3	-	Power supply terminal for I/O (3.3V)
163	VSS	-	Connect to ground
164	HDD11	I/O	ATAPI host data 11
165	HDD4	I/O	ATAPI host data 4
166	HDD10	I/O	ATAPI host data 10
167	HDD5	I/O	ATAPI host data 5
168	HDD9	I/O	ATAPI host data 9
169	VDD3	-	Power supply terminal for I/O (3.3V)
170	VSS	-	Connect to ground
171~173	HDD6~8	I/O	ATAPI host data 6~8
174	VDDH	-	Reference power supply for ATAPI (5.0V)
175	NRESET	I	ATAPI host reset input
176	MASTER	I	ATAPI master / slave select

4.9 PT6315(IC801):FL Display driverBlock diagram

- Block diagram



- Pin function

Pin No.	Symbol	I/O	Description
1 to 4	LED1 to LED4	O	LED Output Pin
5	OSC	I	Oscillator Input Pin A resistor is connected to this pin to determine the oscillation frequency
6	DOUT	O	Data Output Pin(N-Channel, Open-Drain) This pin outputs serial data at the falling edge of the shift clock(starting from the lower bit)
7	DIN (Schmitt Trigger)	I	Data Input Pin This pin inputs serial data at the rising edge of the shift clock(starting from the lower bit)
8	CLK (Schmitt Trigger)	I	Clock Input Pin This pin reads serial data at the rising edge and outputs data at the falling edge.
9	STB (Schmitt Trigger)	I	Serial Interface Strobe Pin The data input after the STB has fallen is processed as a command. When this pin is "HIGH",CLK is ignored.
10,11	K1 to K2	I	Key Data Input Pins The data inputted to these pins are latched at the end of the display cycle.
12,44	VSS	-	Logic Ground Pin
13,43	VDD	-	Logic Power Supply
14 to 29	SG1/KS1 to SG16/KS16	O	High-Voltage Segment Output Pins Also acts as the Key Source
30	VEE	-	Pull-Down Level
31 to 38	SG17/GR12 to SG24/GR5	O	High Voltage Segment/Grid Output Pins
39 to 42	GR4 to GR1	O	High Voltage Grid Output Pins

4.10 UPD789074MC-026(IC701):System controller

• Pin layout

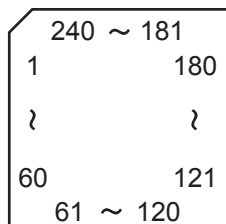
NTB	1	30	PROG
S/COMP	2	29	INT
VPP	3	28	GAINCONT
RESET	4	27	E/OTHER
X2	5	26	LMUTE
X1	6	25	AVCO
VSS	7	24	P.ON/STANDB
VDD	8	23	CPURST
TCLOSE	9	22	MUTE
TOPEN	10	21	FLDIN
AVCI	11	20	FLDOUT
REMO	12	19	FLCLK
SWCLOSE	13	18	FLSTB
SWOPEN	14	17	INTP
RXD	15	16	TXD

• Pin function

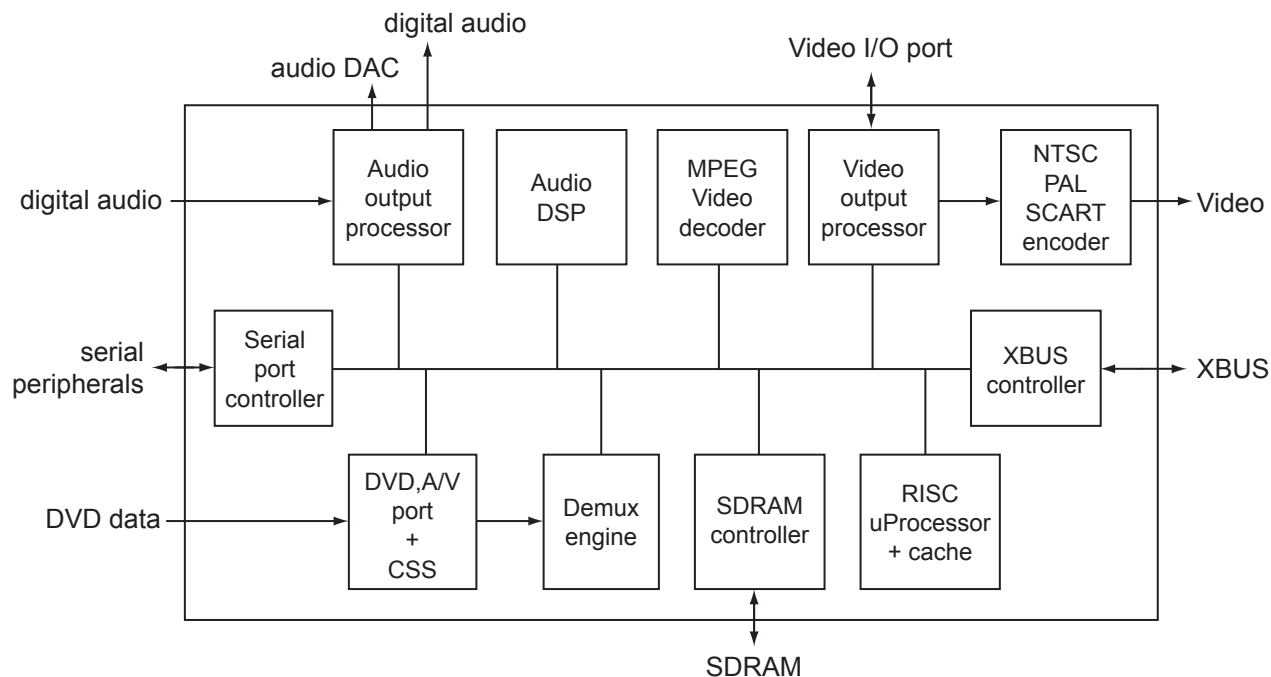
Pin No.	Symbol	I/O	Description
1	NTB	I	COMP/RGB-Y/C or PAL-NTSC Change signal input terminal
2	S/COMP	I	S(L)/COMPORNENT(H) output switching signal input
3	VPP	-	The power supply for on board to writing
4	RESET	I	Reset input (L:reset)
5	X2	-	Clock (5MHz)
6	X1	-	Clock (5MHz)
7	VSS	-	Connect to ground
8	VDD	-	Power supply terminal +3.3V
9	TCLOSE	O	PWM signal output for tray close
10	TOPEN	O	PWM signal output for tray open
11	AVCI	I	AV Compulink control data input
12	REMO	I	Remote control signal input
13	SWCLOSE	I	Tray switch signal input 1 L:Full open L:Movement H:Full close
14	SWOPEN	I	Tray switch signal input 2 L:Full open H:Movement H:Full close
15	RXD	I	Decoder serial communication data input
16	TXD	O	Decoder serial communication data output
17	INTP	O	Decoder serial communication interruption signal output
18	FLSTB	O	FL Driver strobe output
19	FLCLK	O	FL Driver clock output
20	FLDOUT	I	Data input from FL Driver
21	FLDIN	O	Data output to FL Driver
22	MUTE	O	Audio muting output H:muting
23	CPURST	O	LSI Reset output L:reset
24	P.ON/STANDB	O	Power ON output
25	AVCO	O	AV Compulink control data output
26	LMUTE	O	Motor driver muting output H:mute
27	E/OTHER	I	Destination detection terminal Europe or Other
28	GAINCONT	O	Gain control signal
29	INT	I	INT/PROG Change signal input terminal H:Interlace
30	PROG	I	INT/PROG Change signal input terminal H:Progressive

4.11 NDV8601VWA-BE(IC501):AV Decoder

- Pin layout



- Block diagram



- Pin function

Pin No.	Symbol		Description
1	VDDio	-	Power supply terminal 3.3V
2,3	MD10,11	I/O	SDRAM Data bus terminal
4	VDD	-	Power supply terminal 1.8V
5	MD12	I/O	SDRAM Data bus terminal
6	VSSio	-	Connect to ground
7~9	MD13~15	I/O	SDRAM Data bus terminal
10	VDDio	-	Power supply terminal 3.3V
11	DQM1	O	SDRAM Data byte enable
12,13	MA9,8	O	SDRAM Address bus terminal
14	VSSio	-	Connect to ground
15,16	MA7,6	O	SDRAM Address bus terminal
17	VSS	-	Connect to ground
18	MA5	O	SDRAM Address bus terminal
19	VDDio	-	Power supply terminal 3.3V
20,21	MA4,3	O	SDRAM Address bus terminal
22	MCLK	O	SDRAM Clock output
23	VSSio	-	Connect to ground
24	CKE	O	SDRAM Clock enable output
25,26	MA2,1	O	SDRAM Address bus terminal
27	VDDio	-	Power supply terminal 3.3V
28	MA0	O	SDRAM Address bus terminal

Pin No.	Symbol		Description
29	MA10	O	SDRAM Address bus terminal
30	MA11	-	Non connect
31	VSSio	-	Connect to ground
32,33	MA12,13	O	SDRAM Address bus, reserved for terminal compatibility with 64Mb SDRAM
34	VDD	-	Power supply terminal 1.8V
35	CS0	O	SDRAM Primary bank chip select
36	VDDio	-	Power supply terminal 3.3V
37	RAS	O	SDRAM Command bit
38	CAS	O	SDRAM Command bit
39	WE	O	SDRAM Command bit
40	VSSio	-	Connect to ground
41	DQM0	O	SDRAM Data byte enable
42	DQM2	O	SDRAM Data byte enable
43	MD16	I/O	SDRAM Data bus terminal
44	VDDio	-	Power supply terminal 3.3V
45,46	MD17,18	I/O	SDRAM Data bus terminal
47	VSS	-	Connect to ground
48	MD19	I/O	SDRAM Data bus terminal
49	VSSio	-	Connect to ground
50~52	MD20~22	I/O	SDRAM Data bus terminal
53	VDDio	-	Power supply terminal 3.3V
54~56	MD23~25	I/O	SDRAM Data bus terminal
57	VSSio	-	Connect to ground
58~61	MD26~29	I/O	SDRAM Data bus terminal
62	VDDio	-	Power supply terminal 3.3V
63,64	MD30,31	I/O	SDRAM Data bus terminal
65	DQM3	O	SDRAM Data byte enable
66	CS1	O	SDRAM Extension bank chip select
67	VSSD	-	Connect to ground
68	SPDIF	O	S/PDIF Digital audio output terminal
69	VSSio	-	Connect to ground
70	AIN	I	Digital audio input for digital micro; can be used as GPIO
71	AOUT3	O	Serial audio output data to audio DAC for left and right channels for down-mix
72	AOUT2	O	Serial audio output data to audio DAC for surround left and right channels
73	AOUT1	O	Serial audio output data to audio DAC for center and LFE channels
74	AOUT0	O	Serial audio output data to audio DAC for left and right channels
75	VDDio	-	Power supply terminal 3.3V
76	PCMCLK	O	Audio DAC PCM sampling clock frequency, common clock for DACs and ADC
77	VDD	-	Power supply terminal 1.8V
78	ACLK	O	Audio interface serial data clock, common clock for DACs and AD converter
79	LRCLK	O	Left / right channel clock, common clock for DACs and ADC
80	SRST	O	Active low RESET signal for peripheral reset
81	RSTP	I	RESET_Power : from system, used to reset frequency synthesizer and rest of chip
82	VSSio	-	Connect to ground
83	RXD1	I	UART1 Serial data input from external serial device, used for IR receiver
84	SSPIN1	I/O	SSP1 Data in or 16X clock for USART function in UART1
85	VSS	-	Connect to ground
86	SSPOUT1	I/O	SSP1 Data out or UART1 data-terminal-ready signal
87	SSPCLK1	I/O	SSP1 Clock or UART1 clear-to-send signal
88	SSPCLK0	I/O	SSP0 Clock or request-to-send function in UART1
89	VDD	-	Power supply terminal 1.8V
90	SSPIN0	I/O	SSP0 Data in or 16X clock for USART function in UART0

Pin No.	Symbol		Description
91	VDDio	-	Power supply terminal 3.3V
92	SSP0UT0	I/O	SSP0 Data out or UART0 data-terminal-ready signal
93	TXD0	I/O	UART0 Serial data output to an external serial device
94	RXD0	I	UART0 Serial data input from external serial device
95	CTS0	I/O	UART0 Clear-to-send signal
96	RTS0	I/O	UART0 Request-to-send signal
97	VSSio	-	Connect to ground
98	CXI	I	Crystal input terminal for on-chip oscillator or system input clock
99	CXO	O	Crystal output terminal for on-chip oscillator
100	OSCVSS	-	Connect to ground for oscillator
101	OSCVDD	-	Power supply terminal for oscillator 1.8V
102	MVCKVDD	-	Power supply terminal for main and video clock PLL 3.3V
103	SCEN	I	Scan chain test enable
104	MVCKVSS	-	Connect to ground for main and video clock PLL
105	ACLKVSS	-	Connect to ground for audio clock PLL
106	SCMD	I	Scan chain test mode
107	ACLKVDD	-	Power supply terminal for audio clock PLL 3.3V
108	VDDDAK	-	Power supply terminal for DAC digital 1.8V
109	VSSDAC	-	Connect to ground for DAC digital
110	Cr/R	O	Video signal output (Cr output : composite/component Red output)
111	IOM	O	Cascaded DAC differential output used to dump current into external resistor for power
112	C/Cb/B	O	Video signal output (Chrominance output for NTSC/PAL S-Video
113	VAA3	-	Cb output for component Blue output)
114	Y/G	O	Power supply terminal for DAC analog 3.3V
115	VSSA	-	Video signal output (Luminance for S-Video and component Green output)
116	VREF	-	Connect to ground for DAC analog
117	VAA	-	Non connect
118	CVBS/C	O	Video signal output (Composite video Chrominance output for S-Video)
119	RSET	O	Current setting resistor of output DACs
120	COMP	O	Compensation capacitor connection
121	VSS	-	Connect to ground
122	VCCLK	-	Non connect
123	VSYNC	-	Non connect
124	HSYNC	-	Non connect
125	VDDio	-	Power supply terminal 3.3V
126~131	VI07~02	-	Non connect
132	VSSio	-	Connect to ground
133,134	VI01,00	-	Non connect
135	VDD	-	Power supply terminal 1.8V
136~139	AD31~28	I/O	Multiplexed address / data bus terminal
140	VDDio	-	Power supply terminal
141~144	AD27~24	I/O	Multiplexed address / data bus terminal
145	PWE3	I/O	Byte write enable for FLASH,EEPROM,SRAM or peripherals terminal
146	AD23	I/O	Multiplexed address / data bus terminal
147	VSSio	-	Connect to ground
148~153	AD22~17	I/O	Multiplexed address / data bus terminal
154	VDDio	-	Power supply terminal 3.3V
155	AD16	I/O	Multiplexed address / data bus terminal
156	PWE2	I/O	Byte write enable for FLASH,EEPROM,SRAM or peripherals terminal
157,158	AD15,14	I/O	Multiplexed address / data bus terminal
159	VDD	-	Power supply terminal 1.8V
160	SCLK	O	External bus clock used for programmable host peripherals

Pin No.	Symbol		Description
161	ACK	I/O	Programmable WAIT/ACK/RDY control
162	VSSio	-	Connect to ground
163~168	AD13~8	I/O	Multiplexed address / data bus terminal
169	VDDio	-	Power supply terminal 3.3V
170	PWE1	I/O	Byte write enable for FLASH,EEPROM,SRAM or peripherals terminal
171	VSS	-	Connect to ground
172~176	AD7~3	I/O	Multiplexed address / data bus terminal
177	VSSio	-	Connect to ground
178~180	AD2~0	I/O	Multiplexed address / data bus terminal
181	VDDio	-	Power supply terminal 3.3V
182	PWE0	I/O	Byte write enable for FLASH,EEPROM,SRAM or peripherals terminal
183	ALE	I/O	Address latch enable
184~187	LA0~3	I/O	Latched address 0~3
188	VSSio	-	Connect to ground
189	RD	I/O	Read terminal
190	LHLDA	O	Bus hold acknowledge in slave mode
191	LHLD	I	Bus hold request from external master in slave mode
192	VDD	-	Power supply terminal 1.8V
193	PCS0	O	Peripheral chip select 0, generally used for enabling the program store ROM/FLASH
194,195	XI01,02	I/O	Programmable general purpose external input/output
196	VDDio	-	Power supply terminal 3.3V
197~200	XI03~06	I/O	Programmable general purpose external input/output
201	VSS	-	Connect to ground
202,203	XI07,08	I/O	Programmable general purpose external input/output
204	VSSio	-	Connect to ground
205	XI09	I/O	Programmable general purpose external input/output
206~209	XID10~13	I/O	Programmable general purpose external input/output
210	VDDio	-	Power supply terminal 3.3V
211	XID14	I/O	Programmable general purpose external input/output
212	VDD	-	Power supply terminal 1.8V
213	DSYNC	I	DVD Parallel mode sector sync
214	DREQ	O	DVD Parallel mode data request
215	DCLK	I	Data sampling clock
216	DSTB	I	Parallel mode data valid, serial mode left/right clock
217	DVD0	I	DVD Drive parallel data port
218	VSSio	-	Connect to ground
219~223	DVD1~5	I	DVD Drive parallel data port
224	VDDio	-	Power supply terminal 3.3V
225,226	DVD6,7	I	DVD Drive parallel data port
227	MD0	I/O	SDRAM Data bus terminal
228	VSSio	-	Connect to ground
229	MD1	I/O	SDRAM Data bus terminal
230	VSS	-	Connect to ground
231,232	MD2,3	I/O	SDRAM Data bus terminal
233	VDDio	-	Power supply terminal 3.3V
234~236	MD4~6	I/O	SDRAM Data bus terminal
237	VSSio	-	Connect to ground
238~240	MD7~9	I/O	SDRAM Data bus terminal



VICTOR COMPANY OF JAPAN, LIMITED
AV & MULTIMEDIA COMPANY OPTICAL DISC CATEGORY 1644, Shimotsuruma, Yamato, Kanagawa 242-8514, Japan



JVC

SCHEMATIC DIAGRAMS

DVD VIDEO PLAYER

XV-N50BK,XV-N55SL

CD-ROM No.SML200304

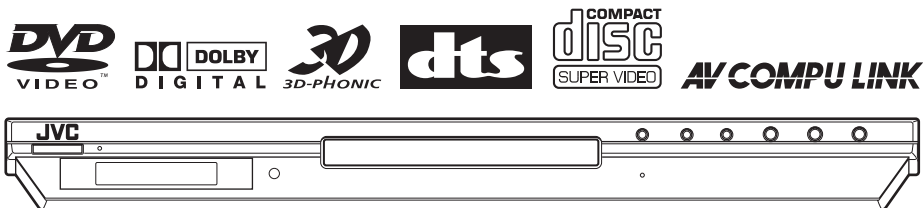


Area Suffix (XV-N50BK)

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

Area Suffix (XV-N55SL)

J ----- U.S.A.
C ----- Canada
B ----- U.K.
E ----- Continental Europe
EN ----- Northern Europe
EV ----- Eastern Europe
EE ----- Russian Federation
UF ----- China



Contents

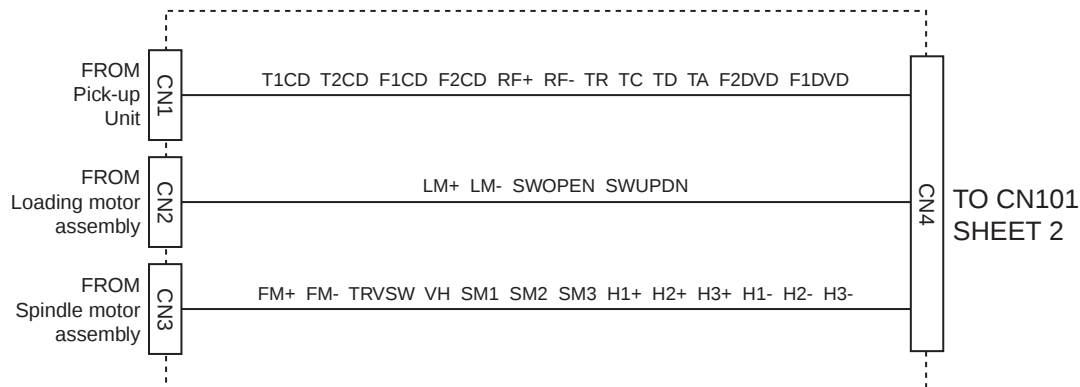
Safety precaution	2-2
Block diagrams	2-3
Standard schematic diagrams	2-8
Printed circuit boards	2-24

Safety precaution

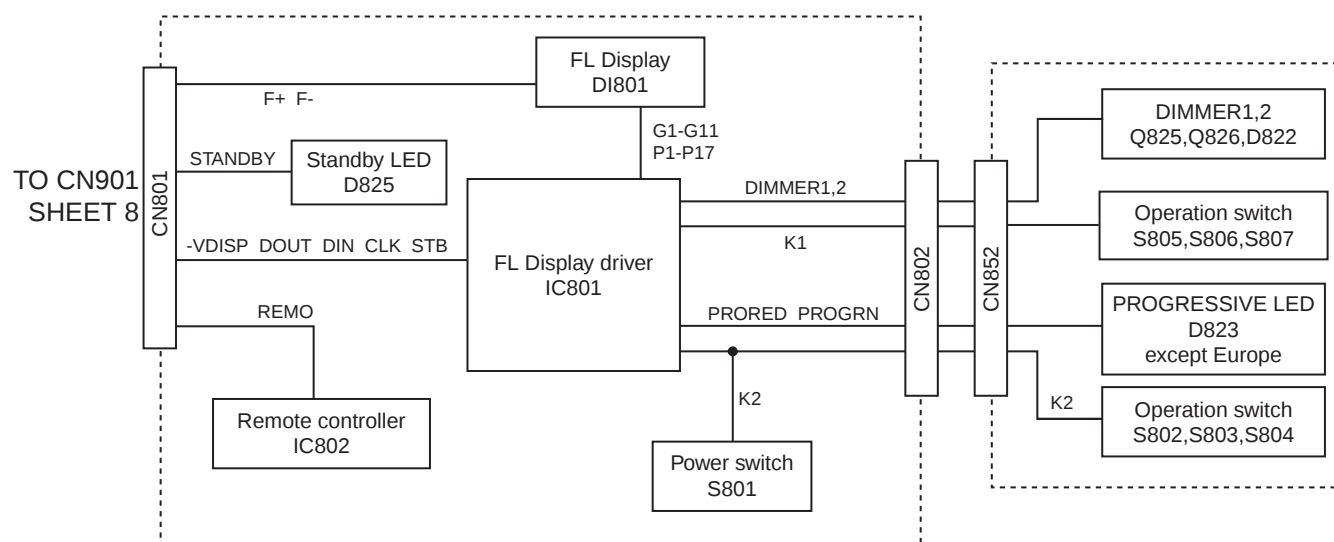
In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (⬤) and ICP (●) or identified by the "⚠" mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer. (Except the JC version)

Block diagrams

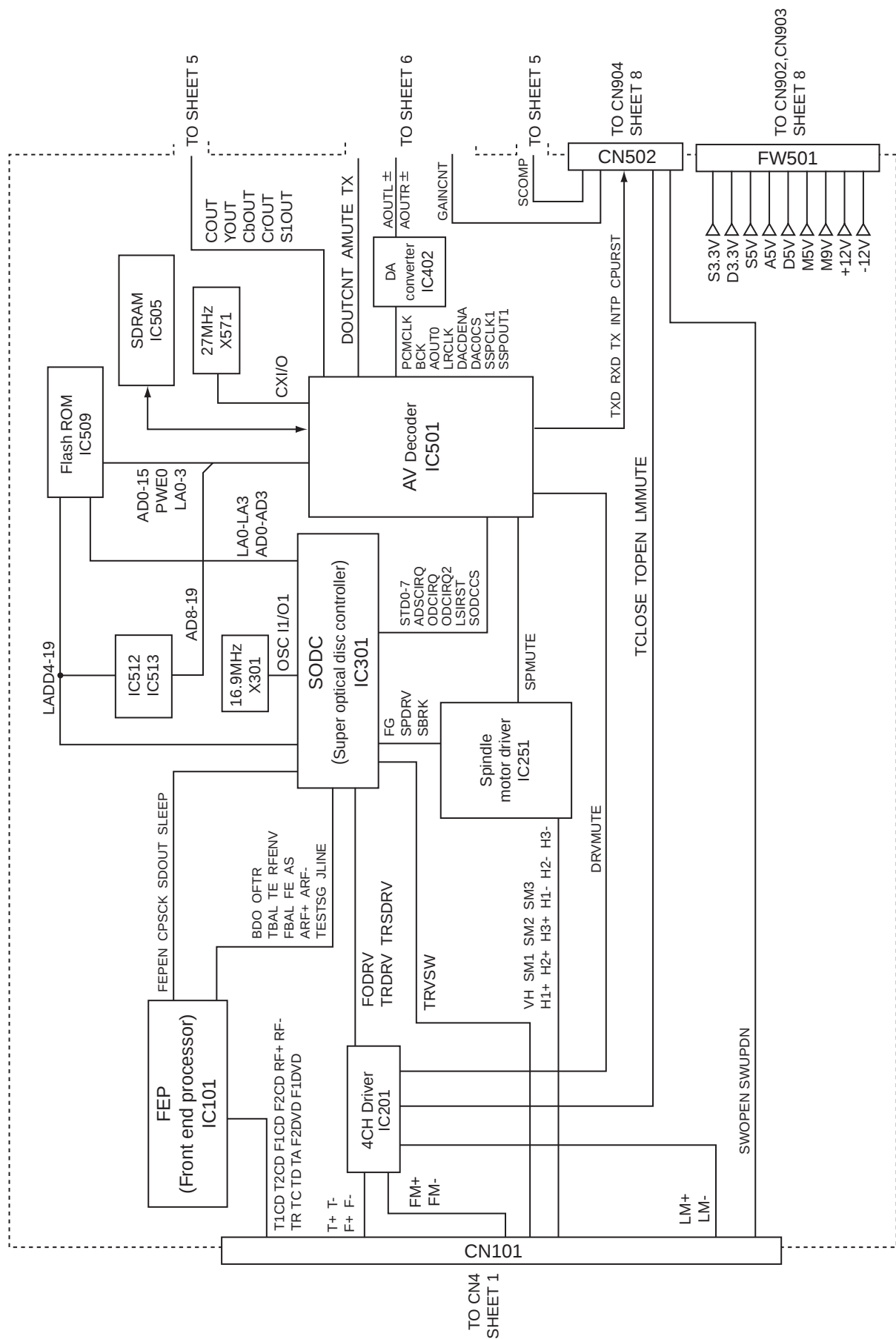
■ Relay board section (SHEET 1)



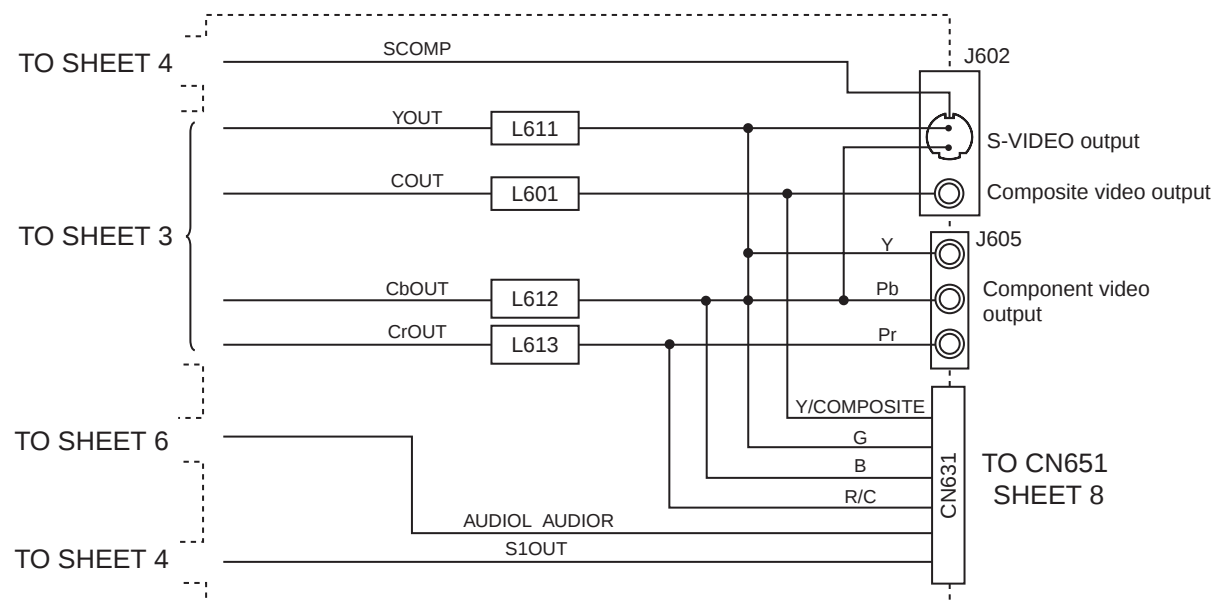
■ FL Display & Operation switch section (SHEET 7)



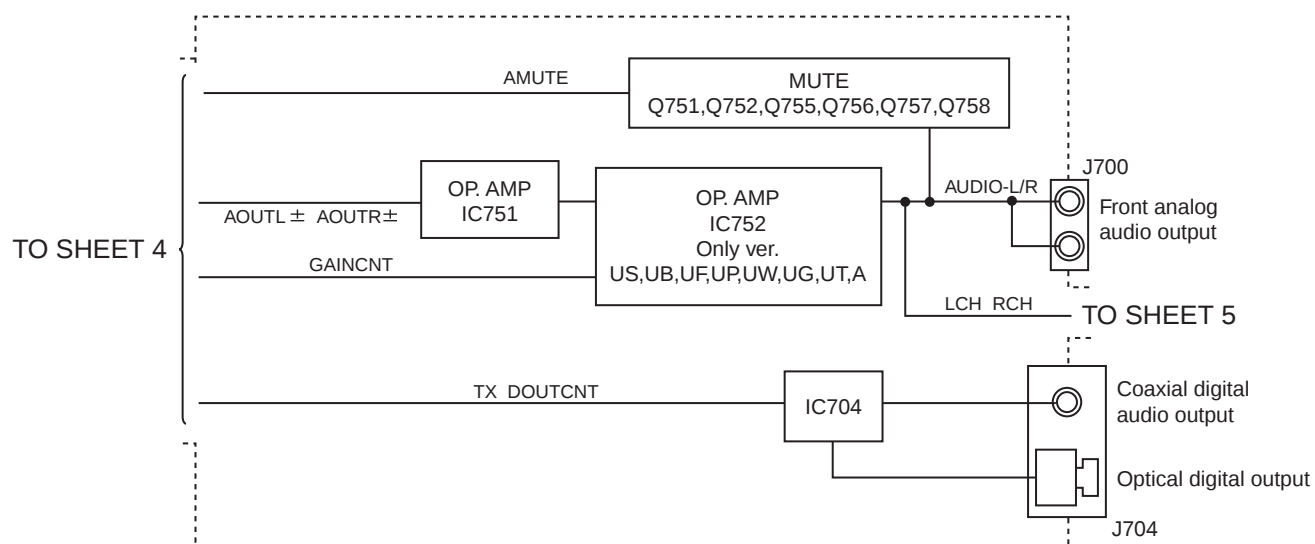
DVD Servo control & AV decoder section (SHEET 2,3,4)



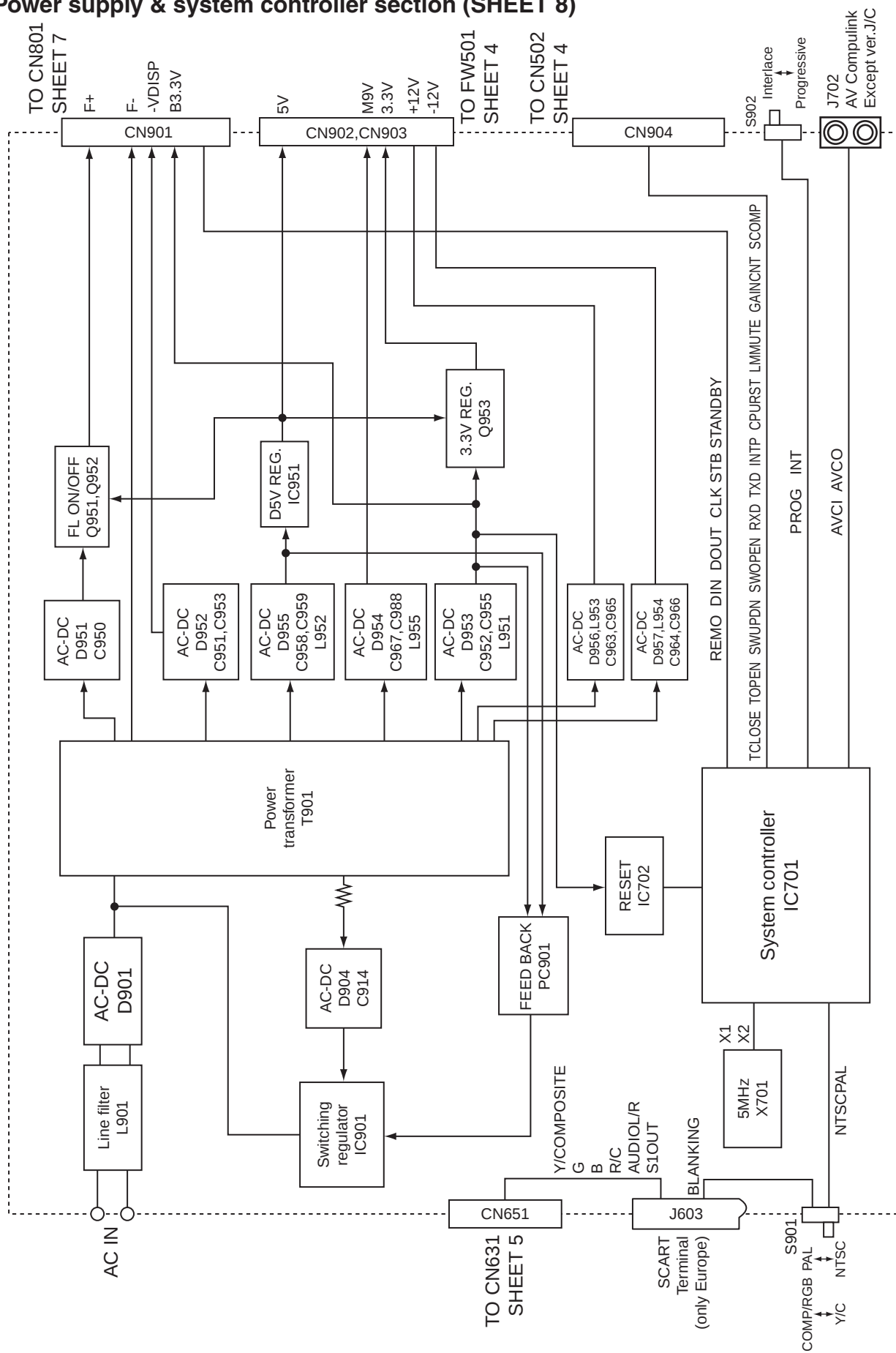
■ Video signal output terminal section (SHEET 5)



■ Audio signal output terminal section (SHEET 6)



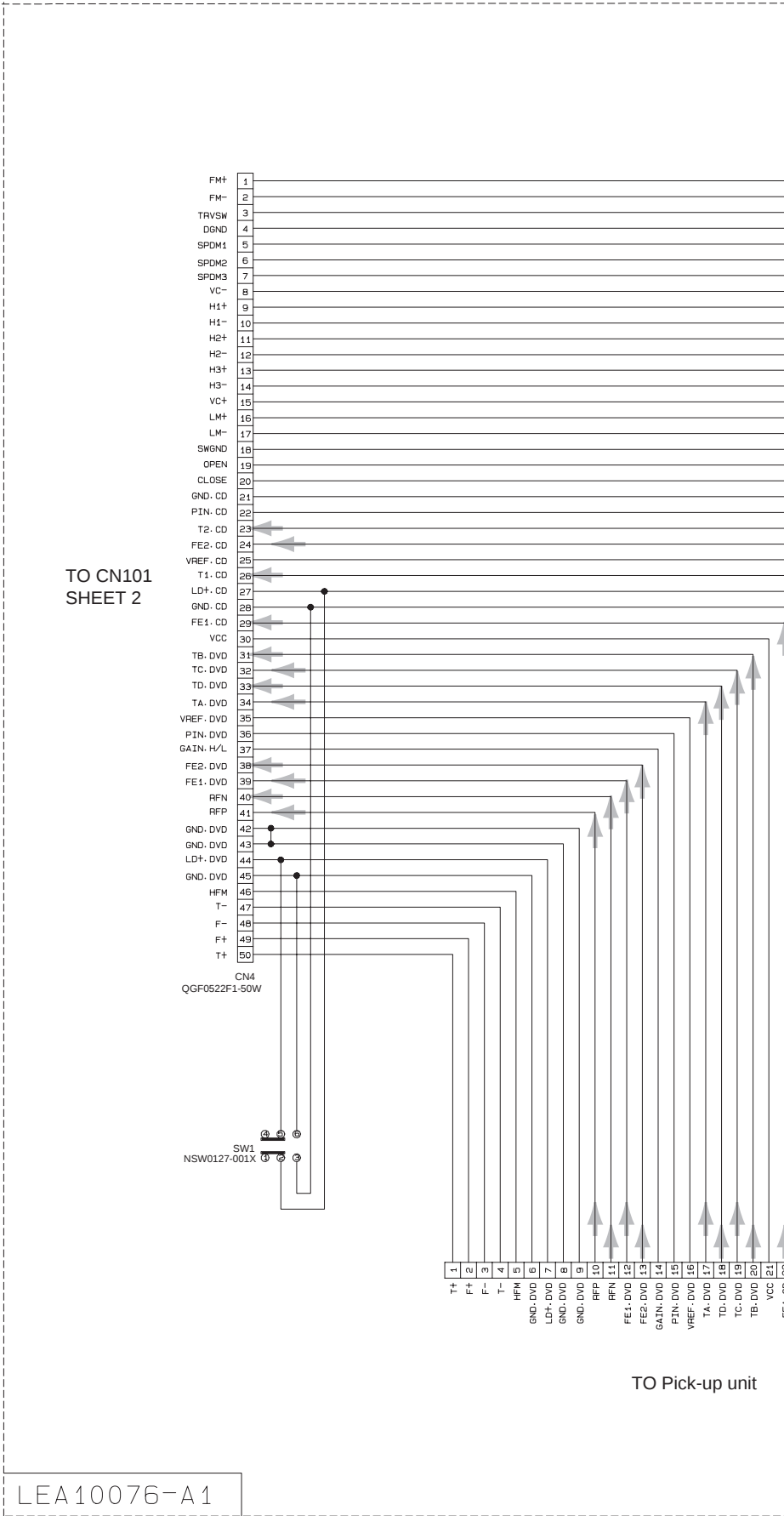
■ Power supply & system controller section (SHEET 8)

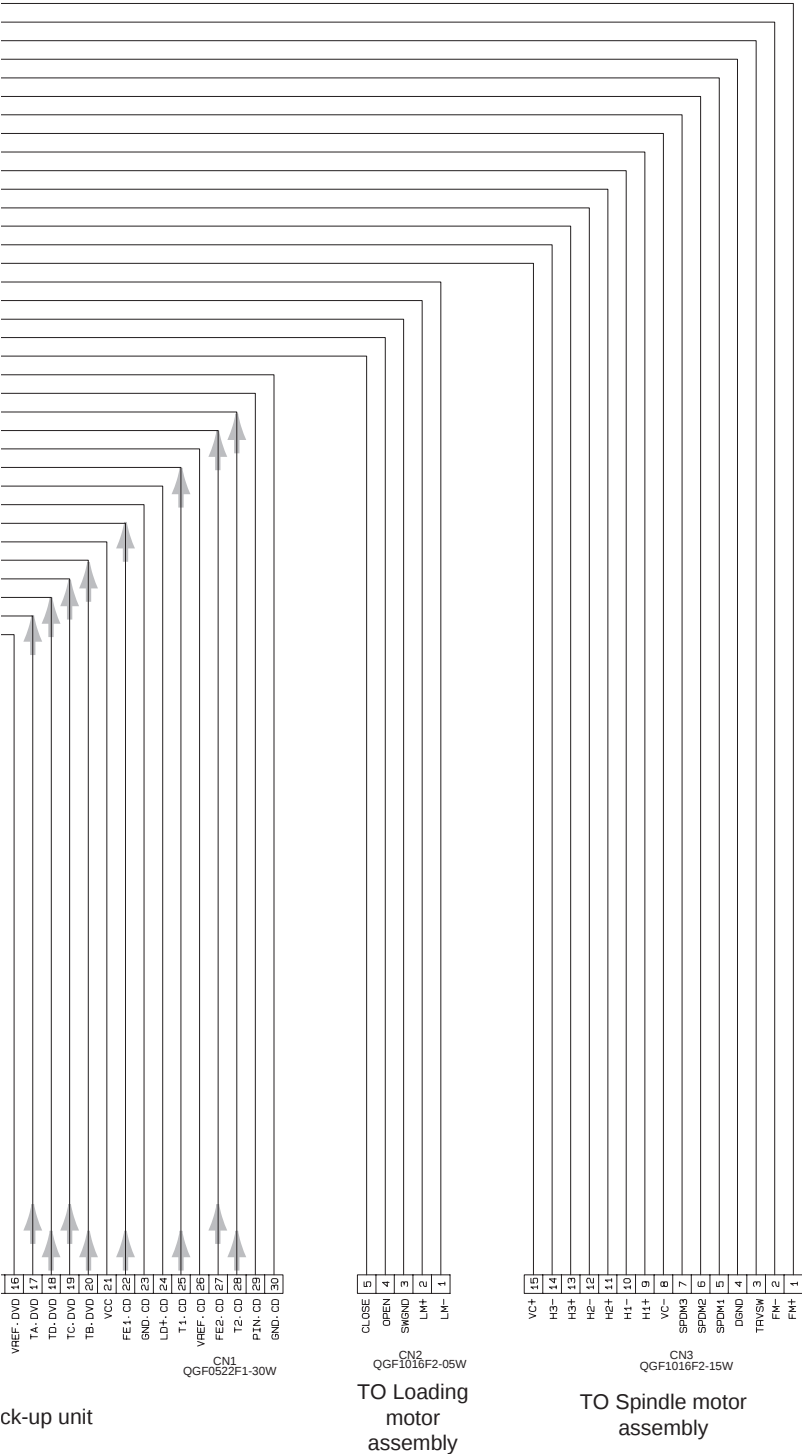


<< MEMO >>

Standard schematic diagrams

■ Relay board section

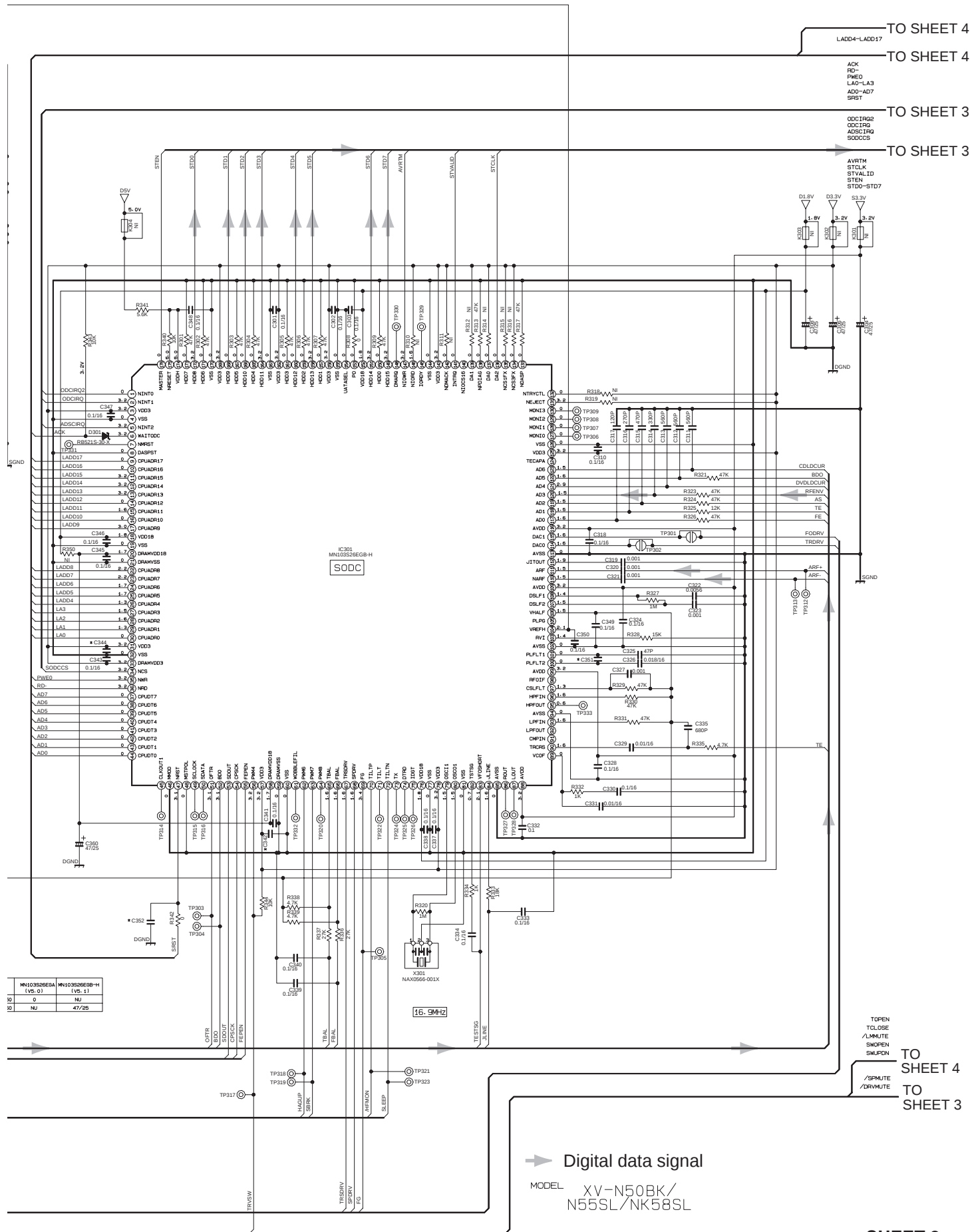




➡ Digital data signal

MODEL XV-N50BK/
N55SL/NK58SL

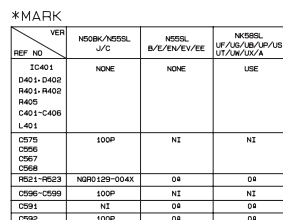


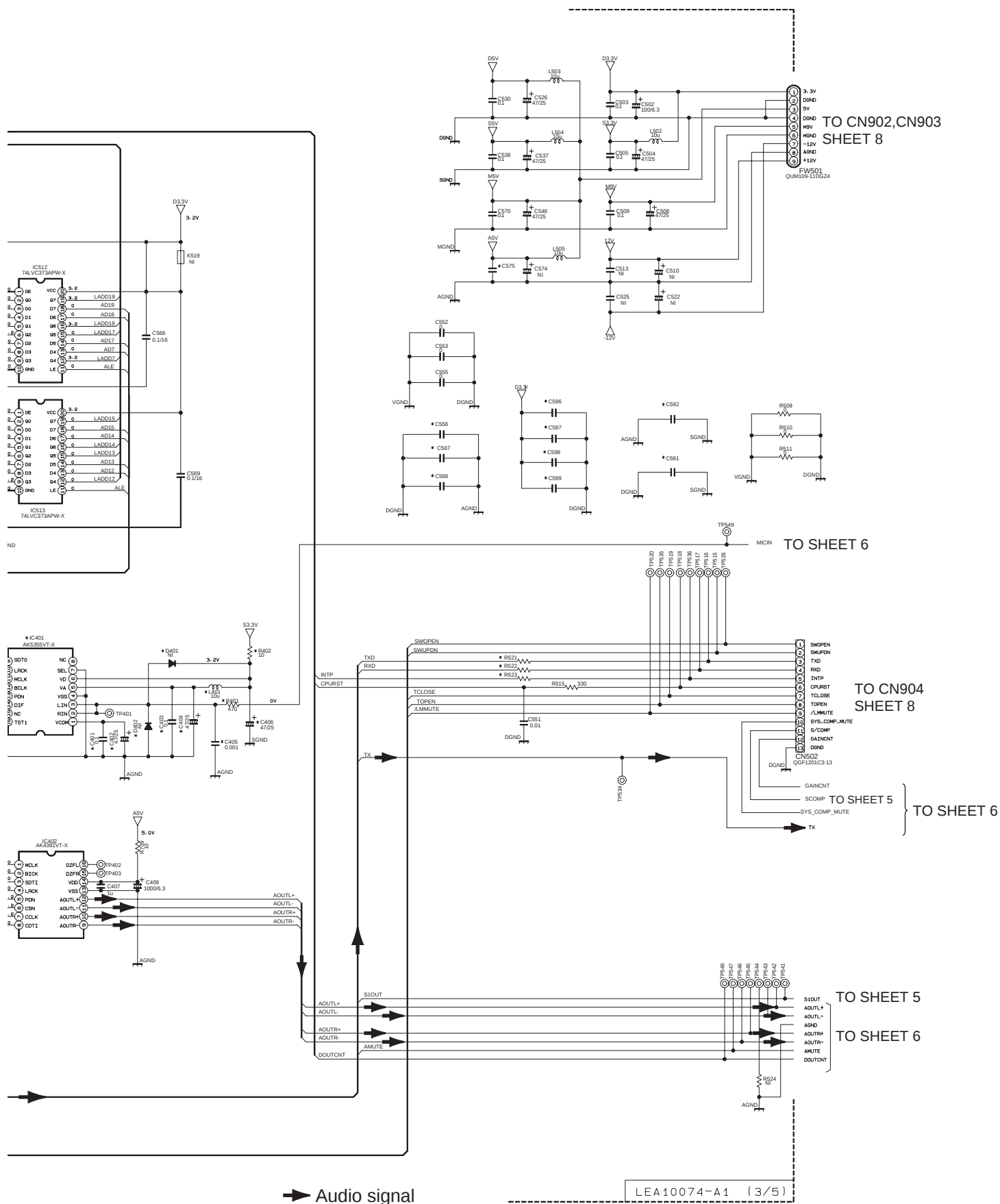




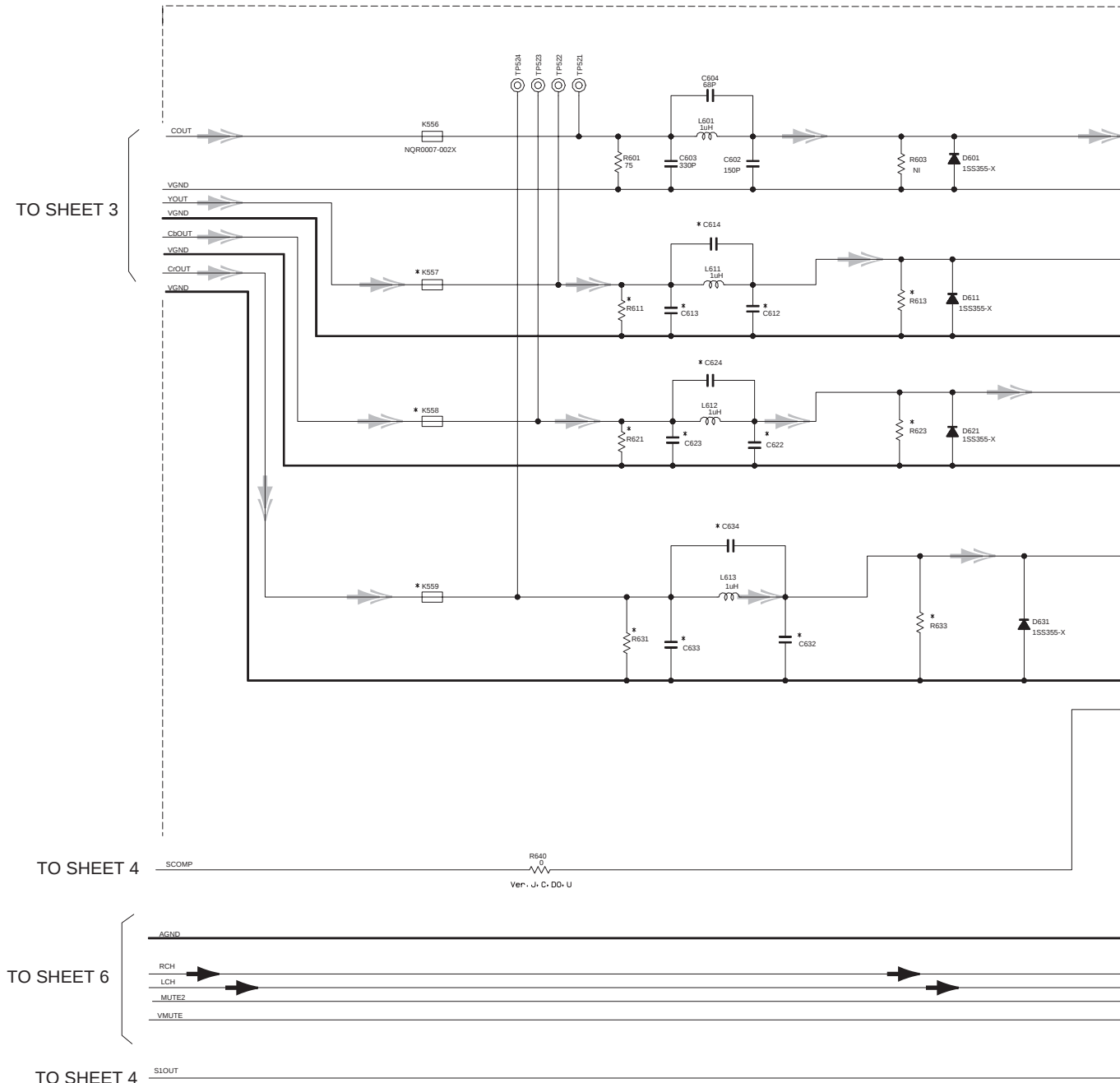


LADD4-LADD17



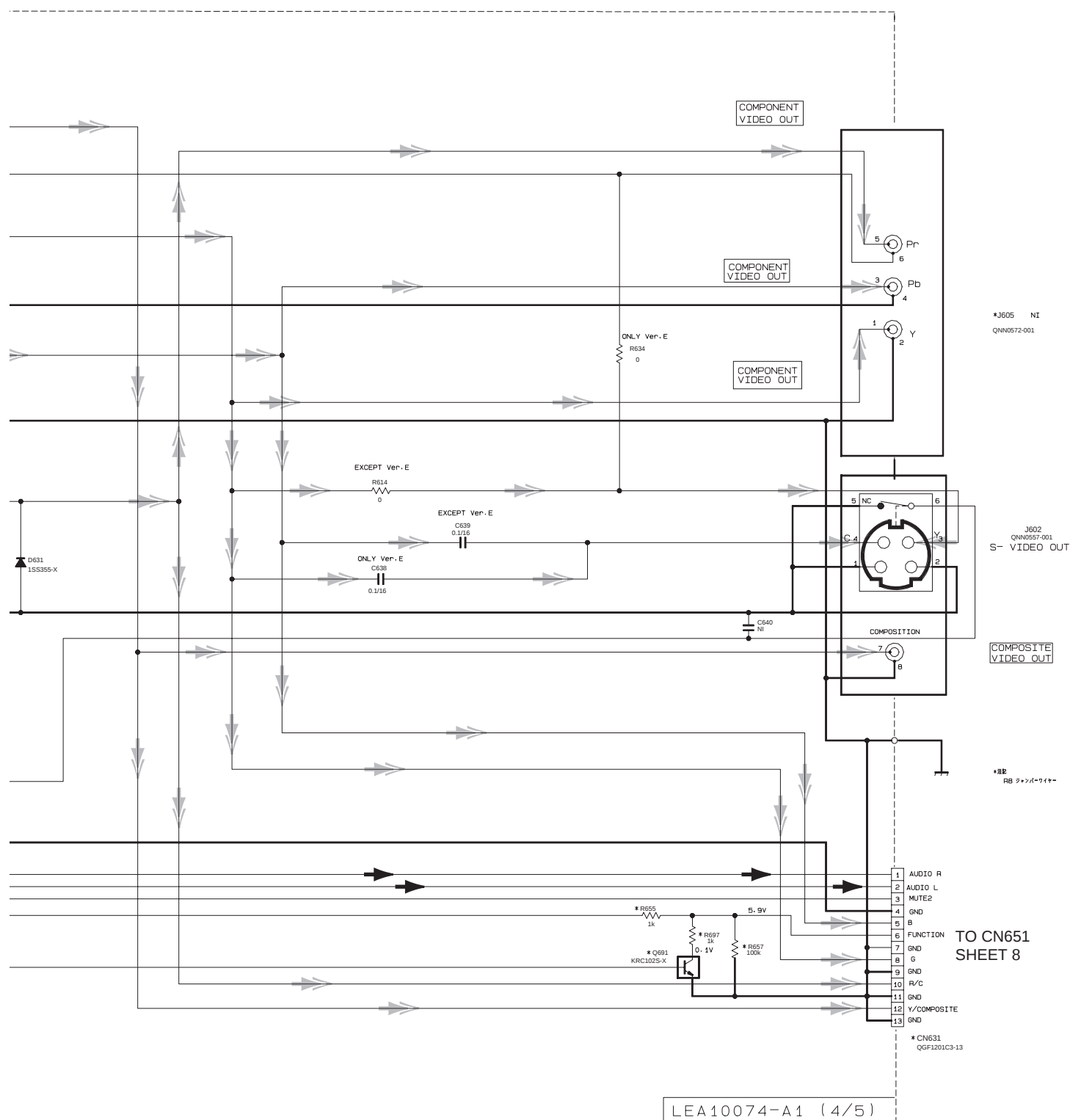


Video signal output terminal section



		*MARK		
		VER	N50BK/N55SL	N55SL
			J/C	B/E/EN/EE
REF	NO			UT/US/UB/UP/US
				UT/UN/UX/A
R611		75		75
R613		4.7K		4.7K
C612		68P		68P
C613		220P		220P
C614		22P		22P
R621		82		82
R623		2.2K		2.2K
C622		68P		68P
C623		220P		220P
C624		22P		22P
R631		82		82
R633		2.2K		2.2K
C632		68P		68P
C633		220P		220P
C634		22P		22P
J605		USE		NONE
CN631		NONE		USE
R655				
R697				
R657				
G691				
K557-K559		NQR0201-011X	NQR0007-002X	NQR0007-002X

NOTES
1. VOLTAGES ARE
CONDITION ---
2. UNLESS OTHER
ALL RESIST
ALL CAPACI
ALL RESIST



LEA10074-A1 (4/5)

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
CONDITION --- POWER ON DVD STOP

2. UNLESS OTHERWISE SPECIFIED.

2. UNLESS OTHERWISE SPECIFIED.

ALL RESISTORS ARE 1/6W $\pm 5\%$ CARBON RESISTOR.

ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.

ALL RESISTANCE VALUES ARE IN OHM(Ω).

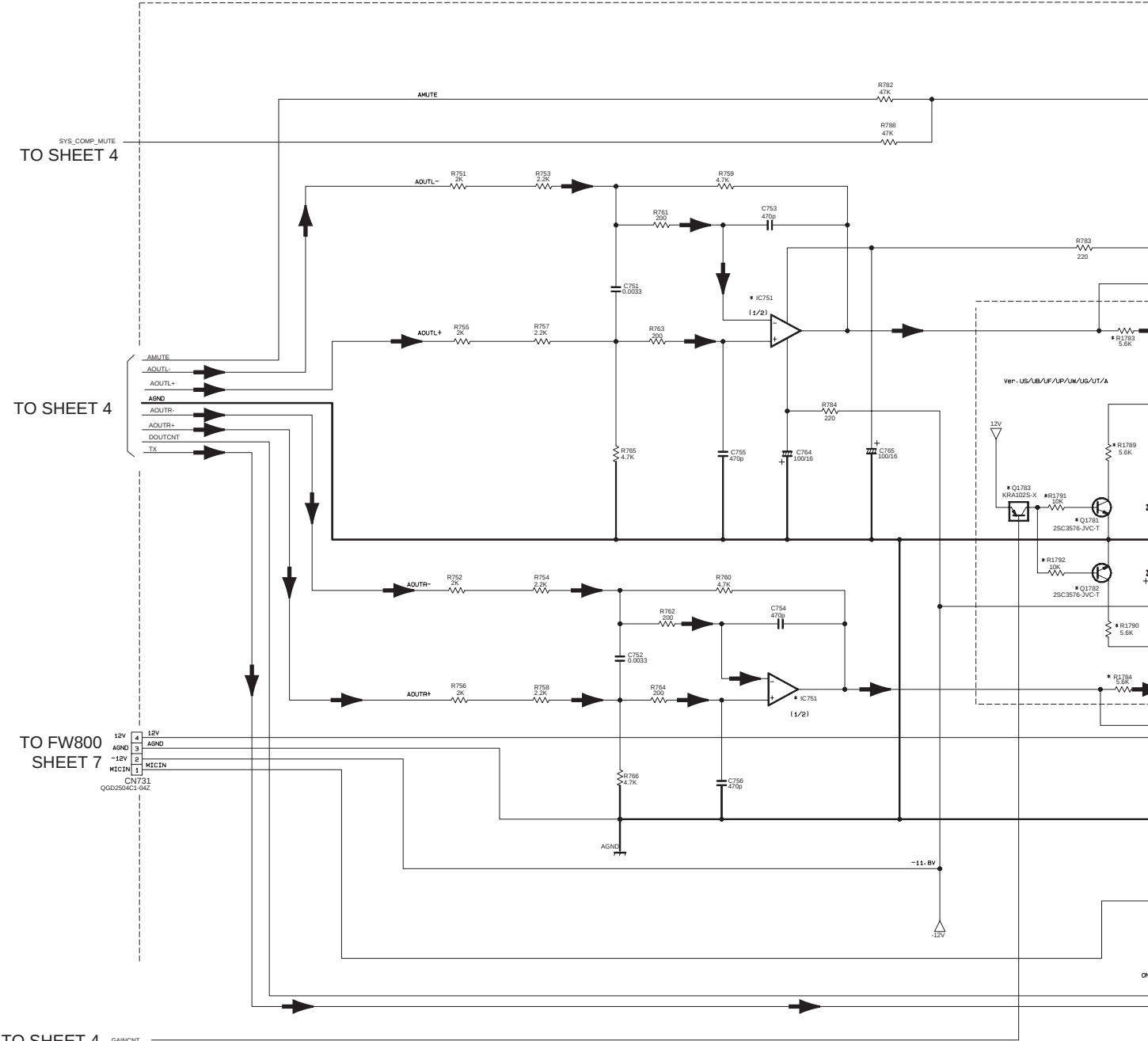
ALL RESISTANCE VALUES ARE IN OHM(W).

MODEL XV-N50BK/
N55SL/NK58SL

➡ Video signal
➡ Audio signal

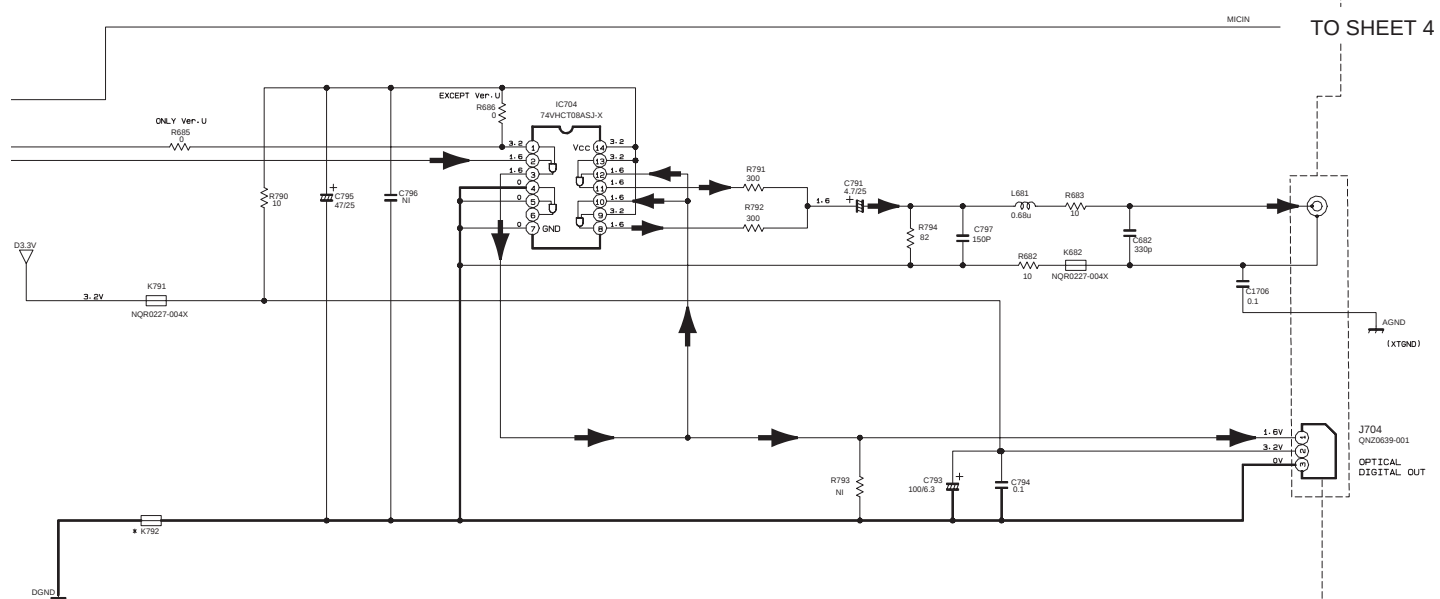
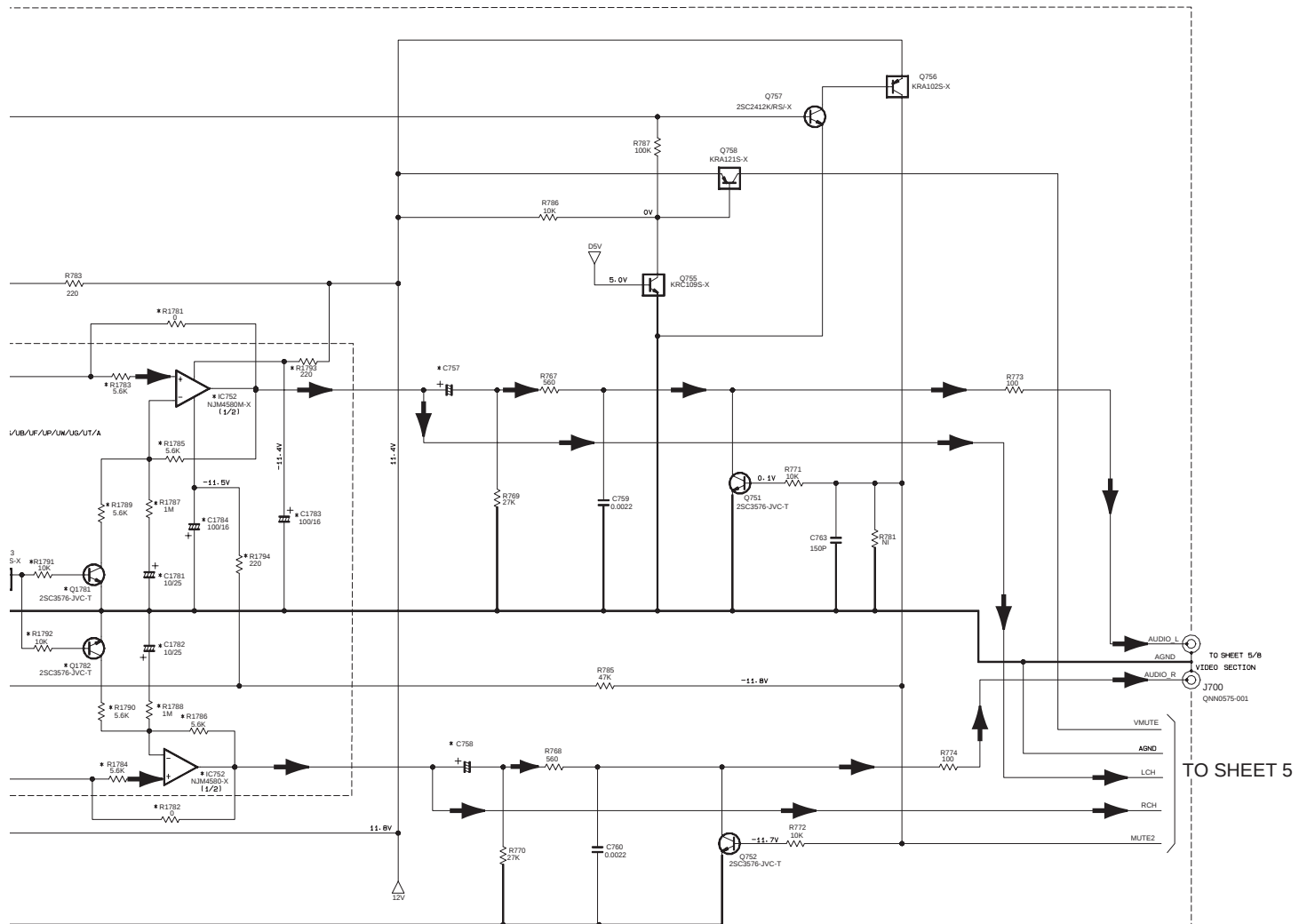
SHEET 5

Audio signal output terminal section



*MARK

VER	NS0BK/N55SL	N55SL	NK58SL
REF NO	J/C	B/E/EN/EE	UP/US/UB/UP/US UT/UM/UA
IC752	NONE	NONE	USE
Q1781-Q1783			
R1783-R1784			
C1781-C1784			
R1781, R1782	USE	USE	NONE
K782	04	NGR0227-004X	NGR0227-004X
C757	22/25	47/25	22/25
C758			
IC751	NJM4580H-X	NJM5532H-XE	NJM4580H-X

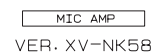
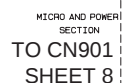


LEA10074-A1 (5/5)

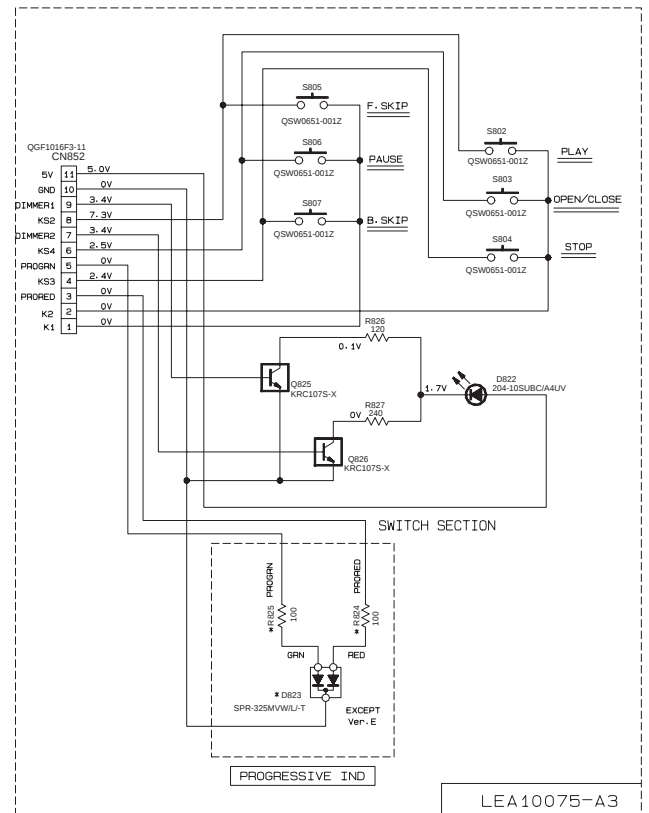
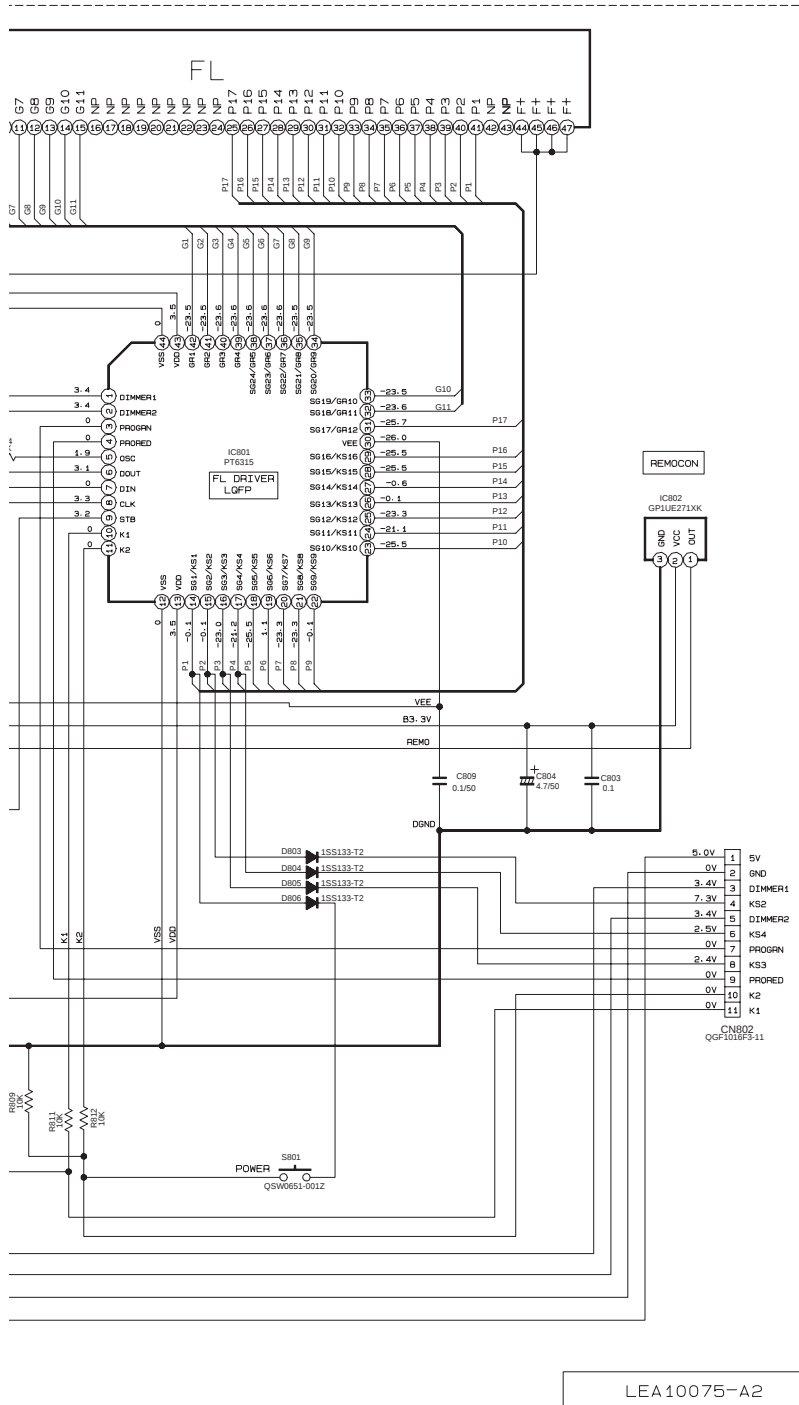
➔ Audio signal

MODEL XV-N50BK/
N55SL/NK58SL

SHEET 6



TO CN731
SHEET 6

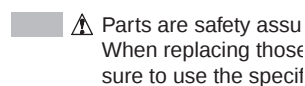


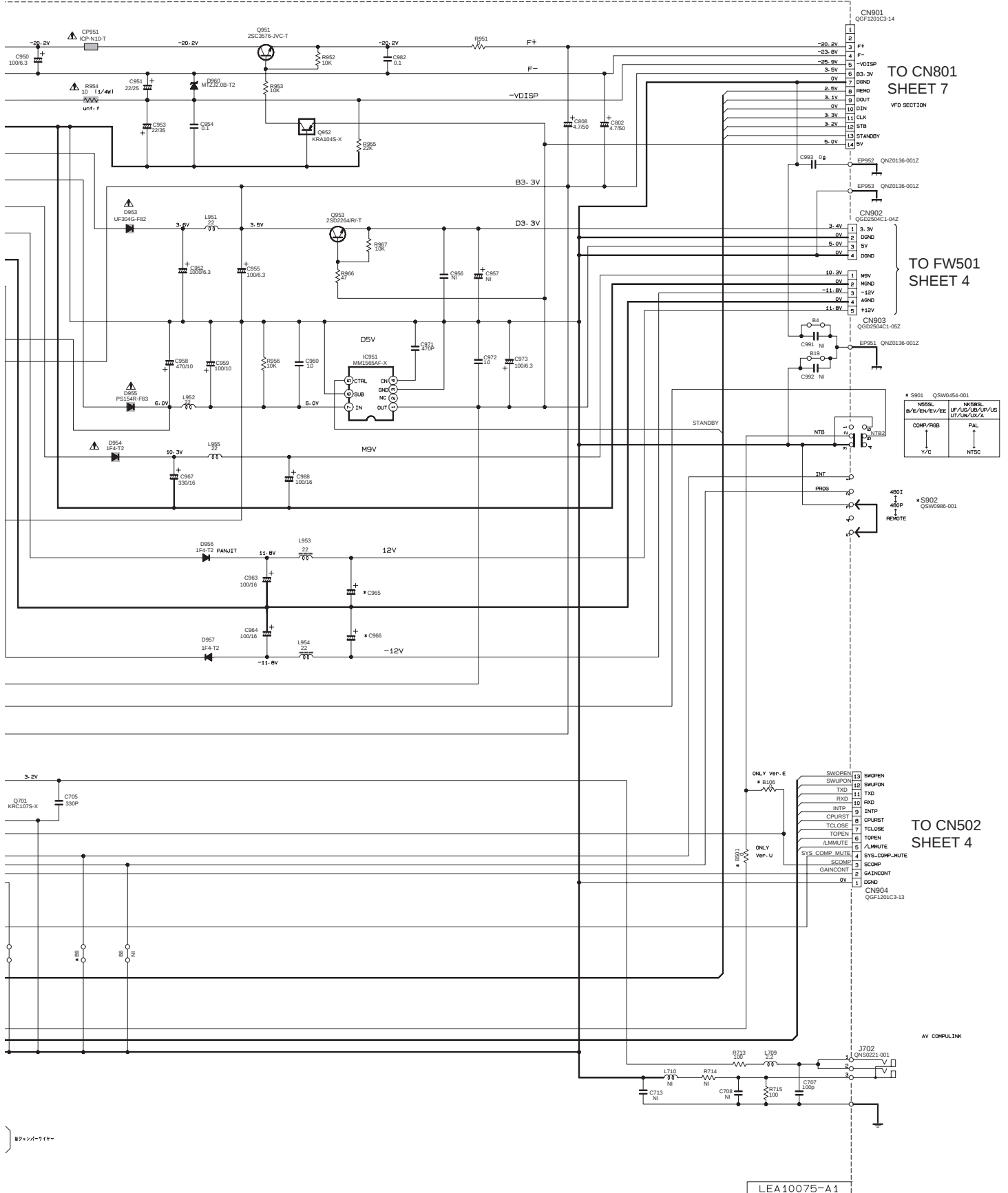
JMP
-NK58

*MACK

REF. NO.	VER.	N50BK/N55SL J/C	N55SL B/E/EN/EE	NK55SL UF/UG/UB/UP/US UT/Z/UX/ZA
R824, R825 D823		USE	NONE	USE
FW1872 J1851 IC753 VR800 R1851 R1853 R1855 R1857 R1859 R1861 R1862 R1871-R1873 R1875 C1851 C1853 C1855 C1857 C1859 C1862 C1863 C1865 C1871-1873		NONE	NONE	USE

MODEL XV-N50BK/
N55SL/NK58SL





safety assurance parts.
lacing those parts make
e the specified one.

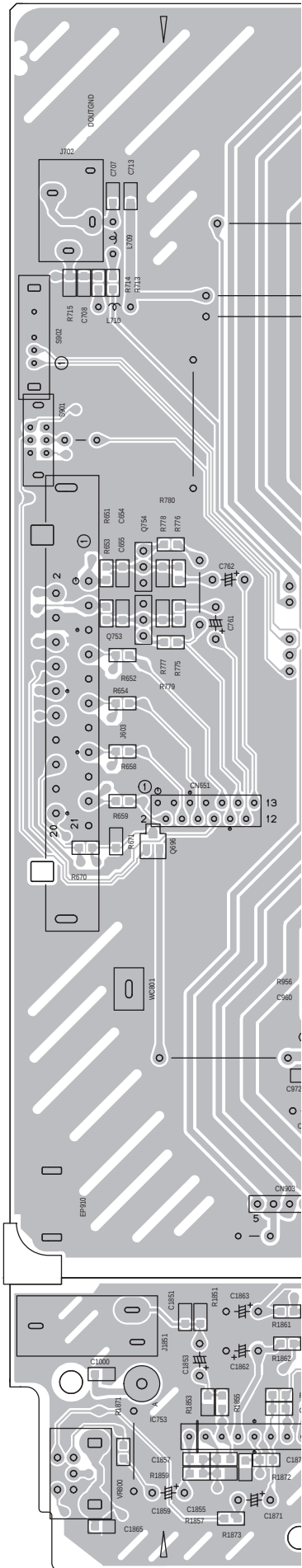
MODEL XV-N50BK/
N55SL/NK58SL

➡ Video signal
➡ Audio signal

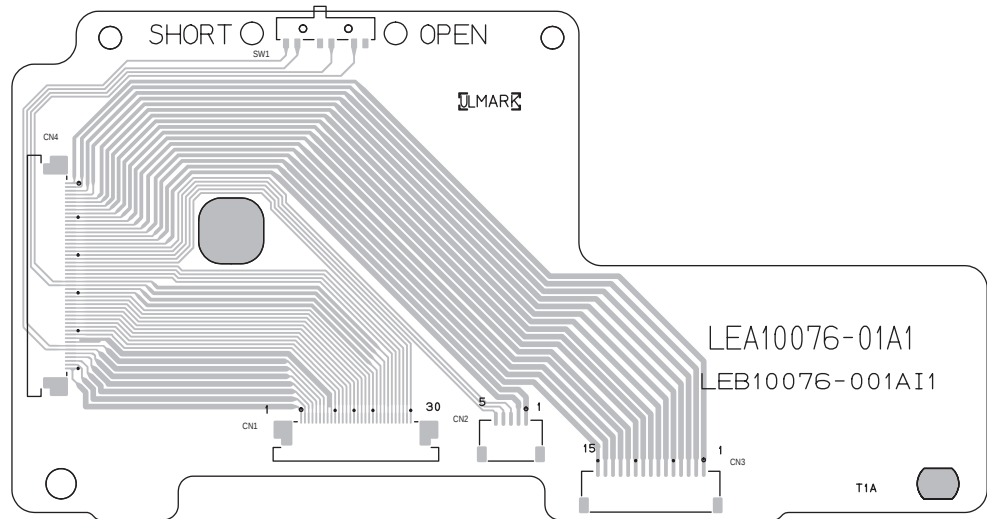
SHEET 8

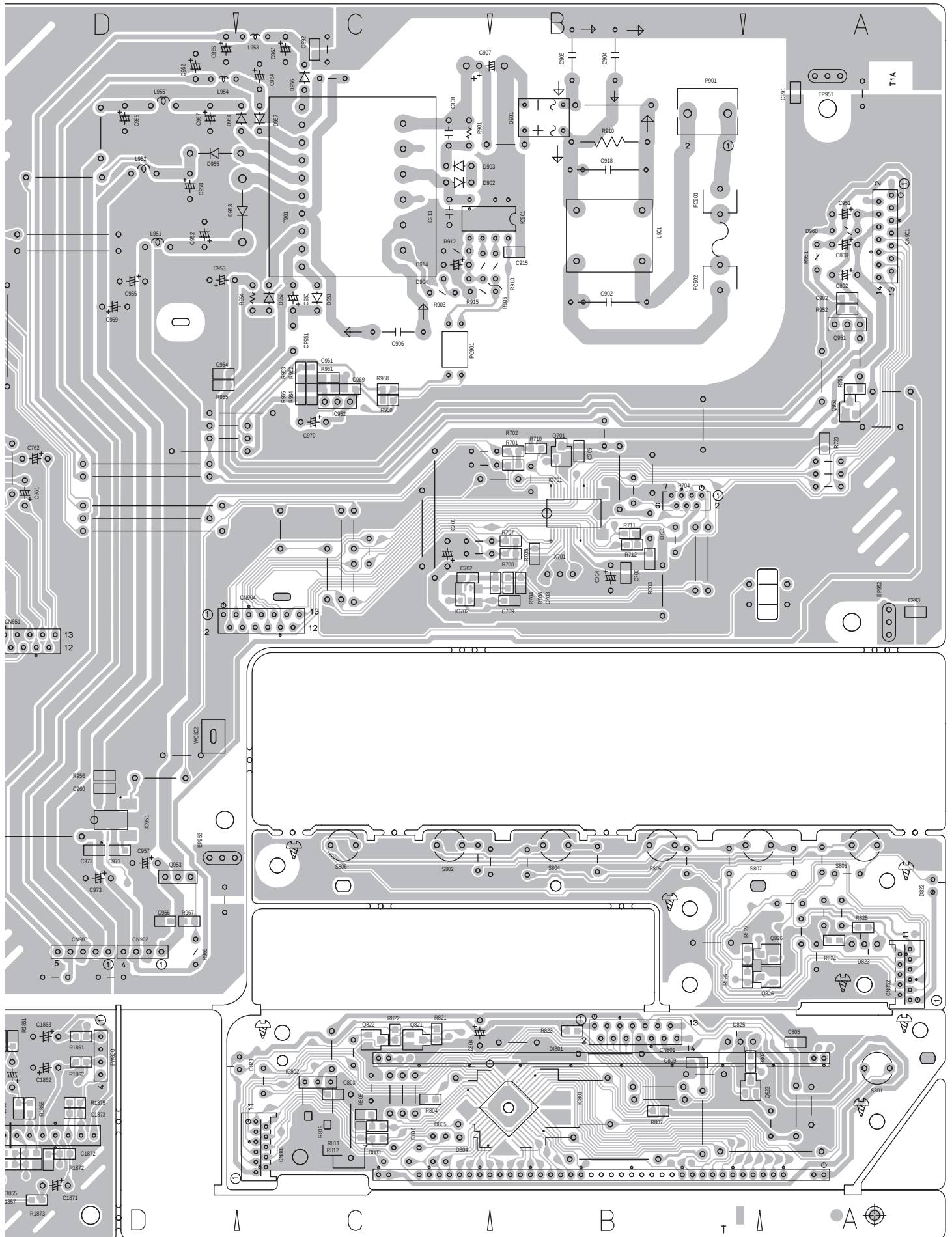
Printed circuit boards

■ Power supply & system control board

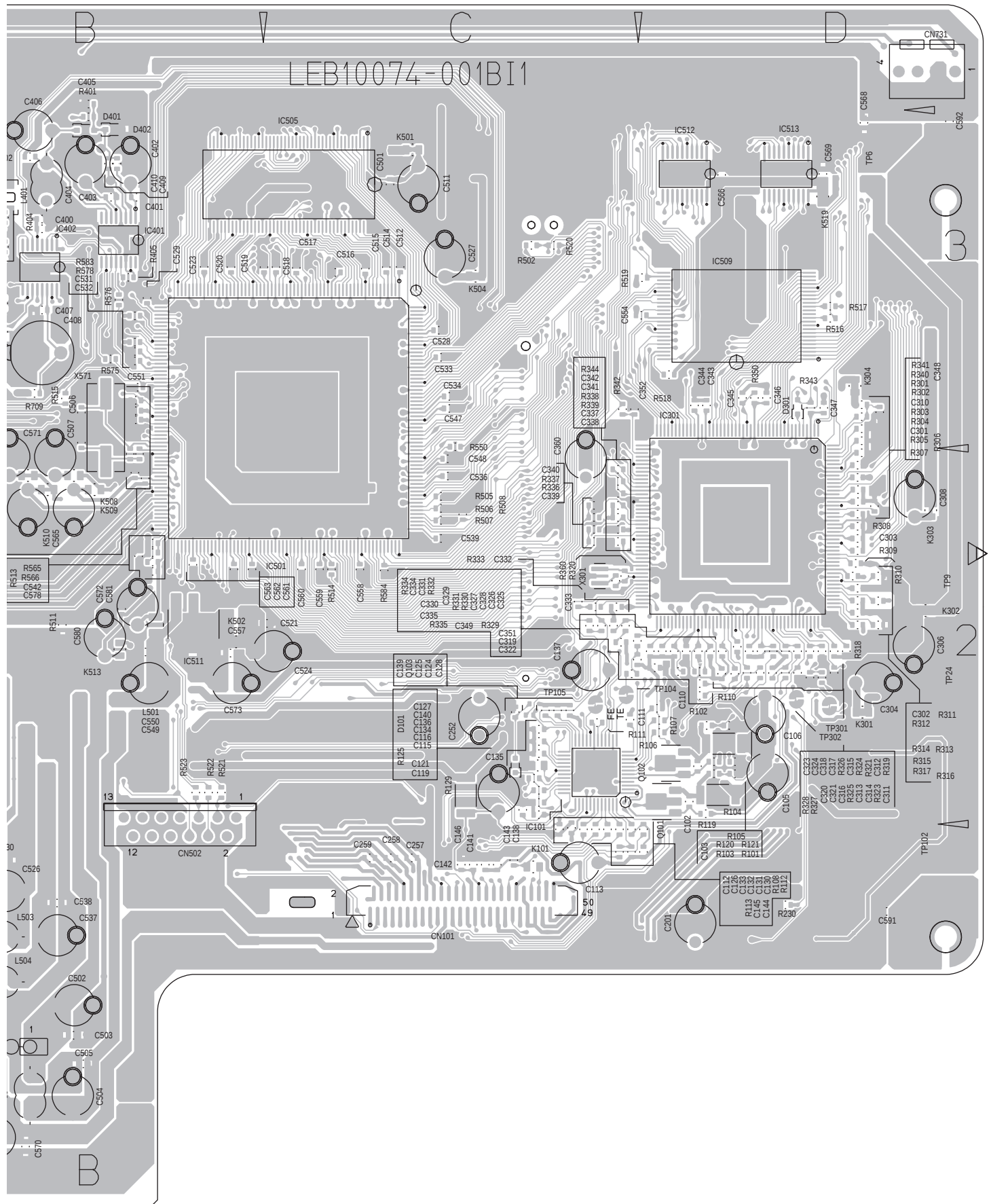


■ Relay board

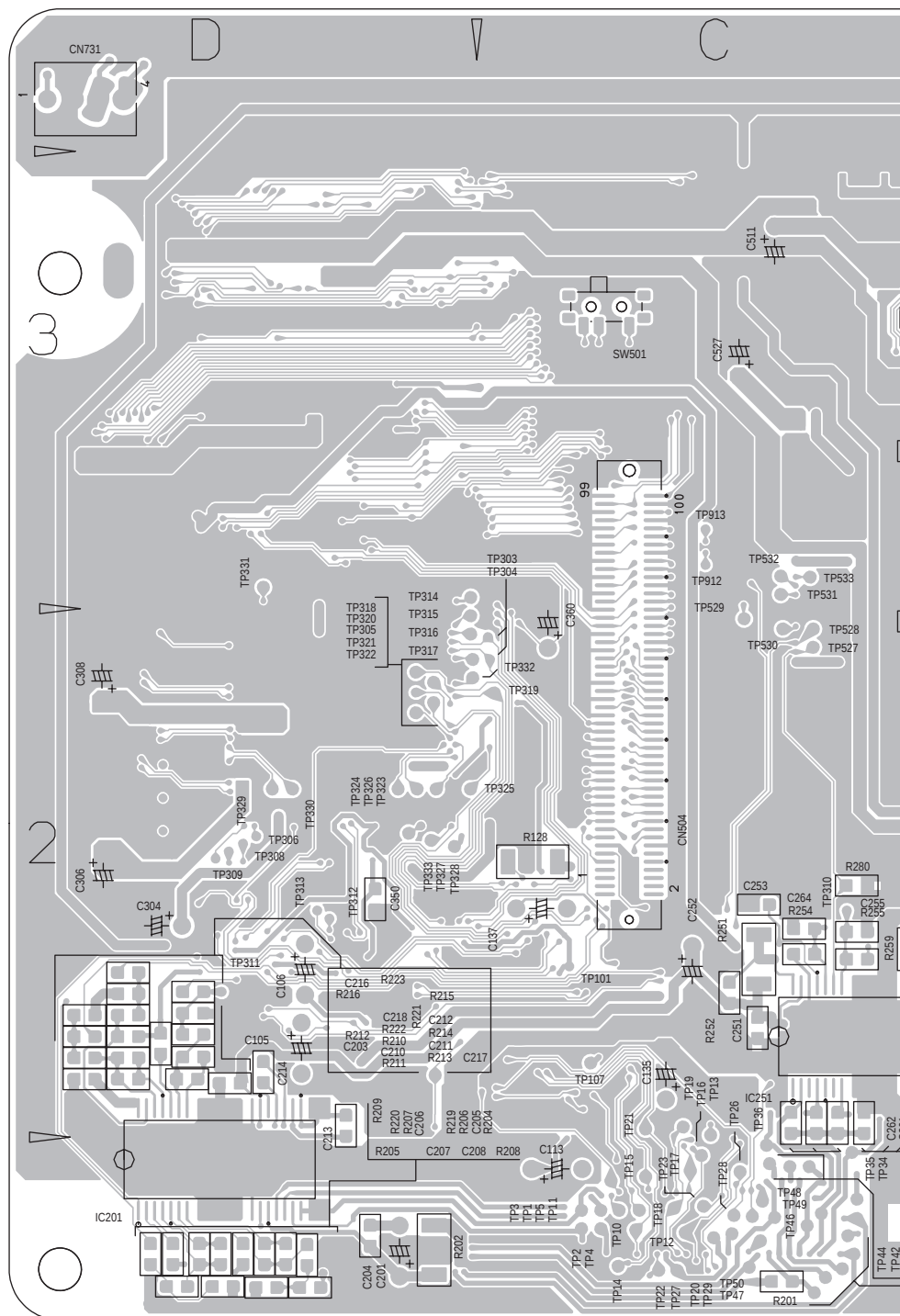


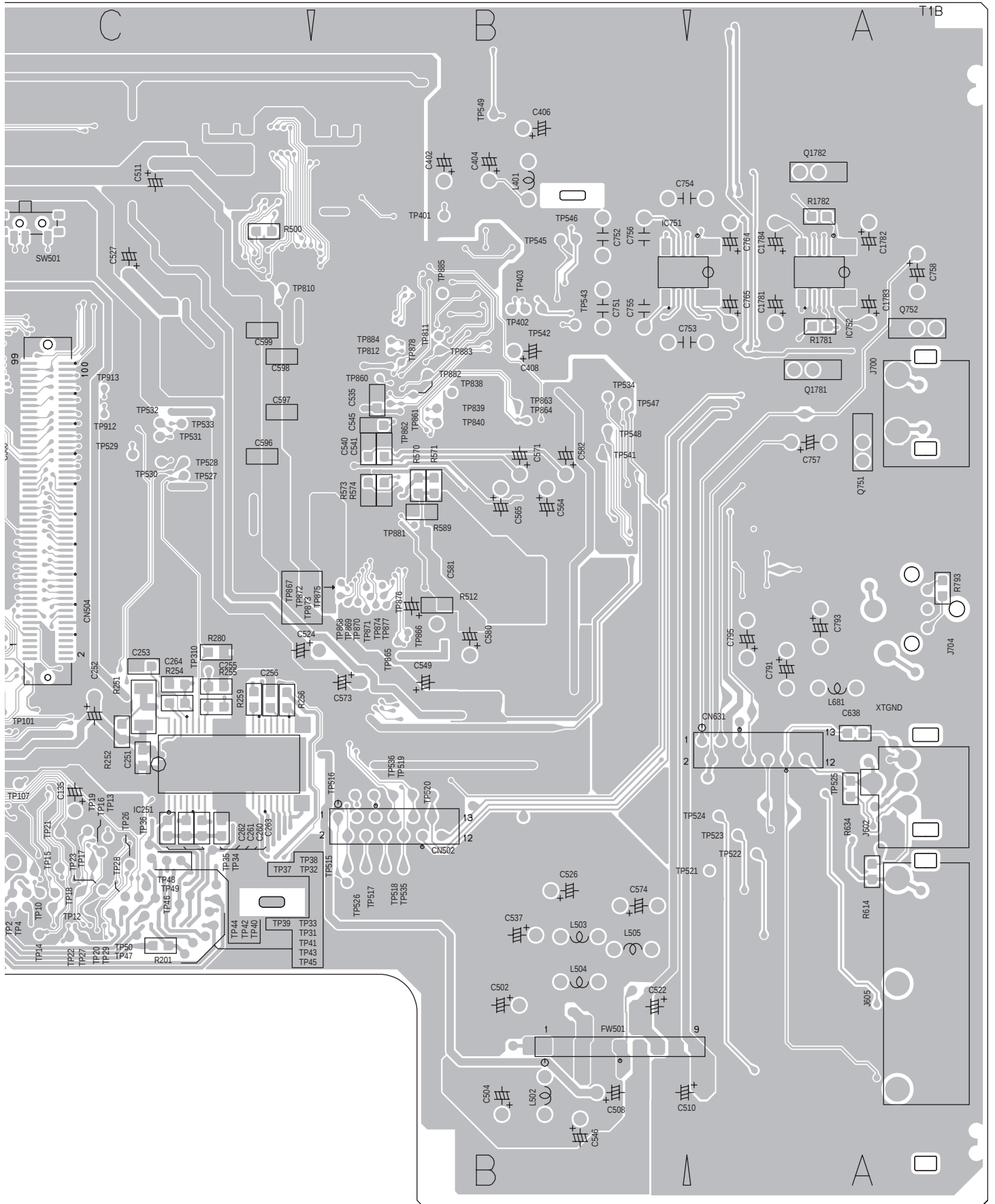






■ Servo control & signal output terminal board (Reverse side)







VICTOR COMPANY OF JAPAN, LIMITED

AV & MULTIMEDIA COMPANY OPTICAL DISC CATEGORY 1644, Shimotsuruma, Yamato, Kanagawa 242-8514, Japan



PARTS LIST

[XV-N50BK,XV-N55SL]

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

* (x_) in a description column shows the number of the used part.

Area Suffix (XV-N50BK)

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

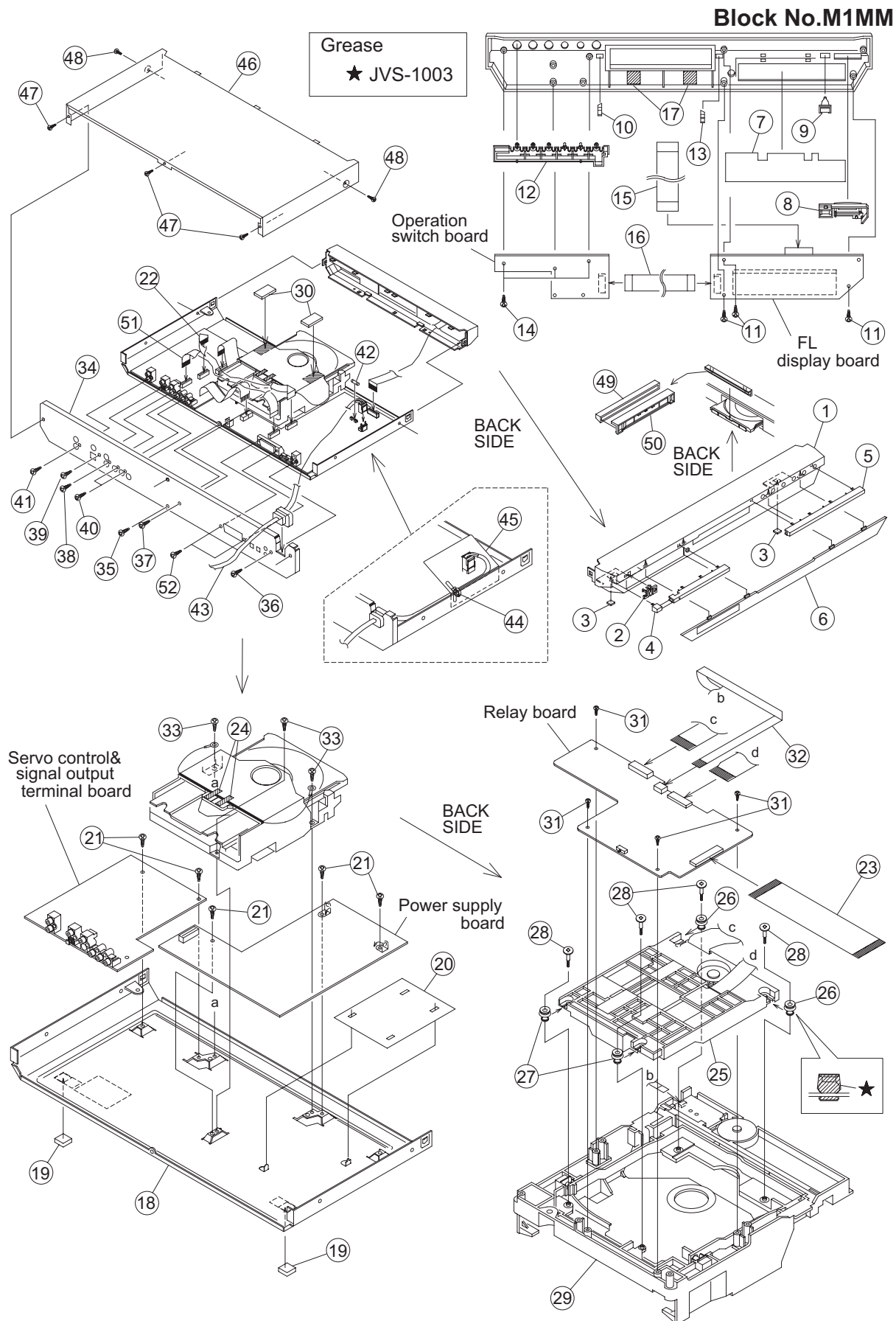
Area Suffix (XV-N55SL)

J ----- U.S.A.
C ----- Canada
B ----- U.K.
E ----- Continental Europe
EN ----- Northern Europe
EV ----- Eastern Europe
EE ----- Russian Federation
UF ----- China

- Contents -

Exploded view of general assembly and parts list	3-2
DVD Traverse mechanism assembly and parts list	3-4
DVD Loading mechanism assembly and parts list	3-6
Electrical parts list	3-8
Packing materials and accessories parts list	3-14

EXPLODED VIEW OF GENERAL ASSEMBLY AND PARTS LIST



GENERAL ASSEMBLY

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

△ Symbol No.	Part No.	Part Name	Description	Local
1	GN10044-001A	FRONT PANEL		50C,50J
1	GN10044-005A	FRONT PANEL		only XV-N55SL for Europe
1	GN10044-003A	FRONT PANEL		55C,55J
1	GN10044-012A	FRONT PANEL		55UF
2	GN40020-001A	JVC MARK		50C,50J
2	GN40020-002A	JVC MARK		only XV-N55SL
3	E75896-002	FELT SPACER	(x2)	
4	GN20054-001A	ORNAMENT(L)		50C,50J
4	GN20054-002A	ORNAMENT(L)		only XV-N55SL
5	GN20055-001A	ORNAMENT(R)		50C,50J
5	GN20055-002A	ORNAMENT(R)		only XV-N55SL
6	GN20056-004A	WINDOW SCREEN		50C,50J
6	GN20056-006A	WINDOW SCREEN		only XV-N55SL for Europe
6	GN20056-005A	WINDOW SCREEN		55C,55J
6	GN20056-007A	WINDOW SCREEN		55UF
7	GN30059-002A	FL SCREEN		50C,50J
7	GN30059-004A	FL SCREEN		only XV-N55SL
8	GN20058-001A	PUSH BUTTON	BK POWER	50C,50J
8	GN20058-002A	PUSH BUTTON	SL POWER	only XV-N55SL
9	GN30057-001A	INDICATOR		
10	GN30058-001A	LED LENS		
11	QYSBSF2608Z	TAPPING SCREW	POWER SW.CB.(x3)	
12	GN20059-003A	PUSH BUTTON	BK PLAY	50C,50J
12	GN20059-004A	PUSH BUTTON	SL PLAY	only XV-N55SL
13	GN30058-002A	LED LENS		
14	QYSBSF2608Z	TAPPING SCREW	PLAY SW.CB.(x3)	
15	QUQ412-1410CJ	FFC WIRE		
16	QUQ110-1116CJ	FFC WIRE		
17	E3400-431	SPACER	(x2)	
18	GN10045-002A	CHASSIS BASE		50C,50J
18	GN10045-001A	CHASSIS BASE		only XV-N55SL
19	E75896-002	FELT SPACER	(x2)	
20	GN40037-001A	PROTECT SHEET		
21	QYSBSGG3008E	TAPPING SCREW	MAIN CB+CHASSIS(x5)	
22	QUQ412-1320CJ	FFC WIRE		
23	QUQ605-5008AF	FFC WIRE		
24	LE30001-031A	SPACER	(x2)	only ver.J,C
25	-----	DVD TRAVERSE MECHA		
26	LE40900-001A	INSULATOR	(x2)	
27	LE40900-002A	INSULATOR	(x2)	
28	LE40901-001A	S.SCREW	FOR INSULATOR(x4)	
29	-----	DVD LOADER MECH		
30	GN30006-019A	SPACER	(x2)	
31	QYSDSF2608Z	SCREW	FOR CONNECT CB(x4)	
32	QUQ210-0518BJ	FFC WIRE		
33	QYSBSG3008Z	TAPPING SCREW	MECHA+CHASSIS(x3)	
34	GN20064-018A	REAR PANEL		50C,50J
34	GN20064-021A	REAR PANEL		55EE
34	GN20064-020A	REAR PANEL		55B,55E,55EN,55EV
34	GN20064-019A	REAR PANEL		55C,55J
34	GN20064-035A	REAR PANEL		55UF
35	QYSBSGY3008M	SPECIAL SCREW	REAR+CHASSIS	
36	QYSBSGY3008M	SPECIAL SCREW	OPT/COAXIAL	
37	QYSBSGY3008M	SPECIAL SCREW	AUDIO OUT	
38	QYSBSGY3008M	SPECIAL SCREW	VIDEO OUT	
39	QYSBSGY3008M	SPECIAL SCREW	COMPU LINK	
40	QYSBSGY3008M	SPECIAL SCREW	COMPONENT(x2)	only ver.J,C,UF
41	QYSBSGY3008M	SPECIAL SCREW	BKT	
△ 42	QMF51E2-1R6-J1	FUSE	1.6A AC250V	except XV-N55SL for ver.J,C
△ 42	QMF51U1-1R6-J8	FUSE	1.6A AC125V	only ver.J,C
△ 43	QMPN230-200-JC	POWER CORD(EK)	2m BLACK	55B
△ 43	QMPK280-200-JN	POWER CORD(EU)	2m BLACK	55E,55EE,55EN,55EV
△ 43	QMPD450-200-JN	POWER CORD(US/CA)	2m BLACK	only ver.J,C
△ 43	QMPR470-200-JN	POWER CORD	2m BLACK	55UF
44	QZW0004-001	WIRE CLAMP		
45	GN30073-001A	PROTECT SHEET(T		
46	GN20063-001A/S/	METAL COVER		50C,50J
46	GN20063-002A/S/	METAL COVER		only XV-N55SL
47	QYSBSGG3008E	TAPPING SCREW	REAR(x3)	
48	QYSDSG3008M	SCREW	BK SIDE(x2)	50C,50J
48	QYSDSG3008N	TAPPING SCREW	SL SIDE(x2)	only XV-N55SL
49	GN20062-004A	LENS		50C,50J
49	GN20062-005A	LENS		only XV-N55SL
50	GN20060-001A	FITTING BASE		50C,50J
50	GN20060-002A	FITTING BASE		only XV-N55SL
51	QUQ412-1322CJ	FFC WIRE		only XV-N55SL for Europe
52	QYSBSGY3008M	SPECIAL SCREW	21P OUT(x2)	only XV-N55SL for Europe

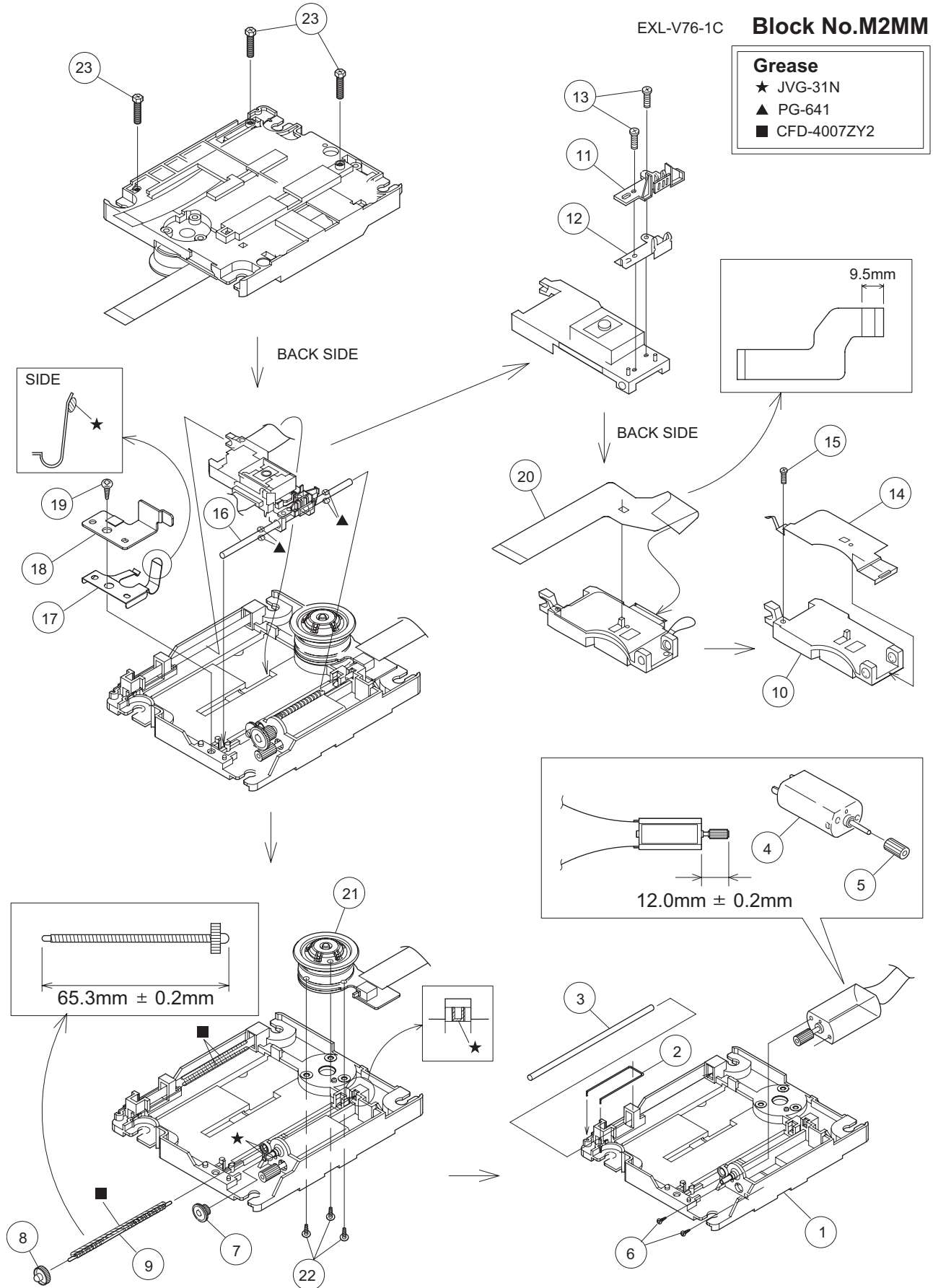
<Local area>

XV-N50BK 50J:J 50C:C

XV-N55SL 55J:J 55C:C 55B:B 55E:E 55EN:EN 55EV:EV 55EE:EE 55UF:UF

(No.A0041)3-3

DVD TRAVERSE MECHANISM ASSEMBLY AND PARTS LIST



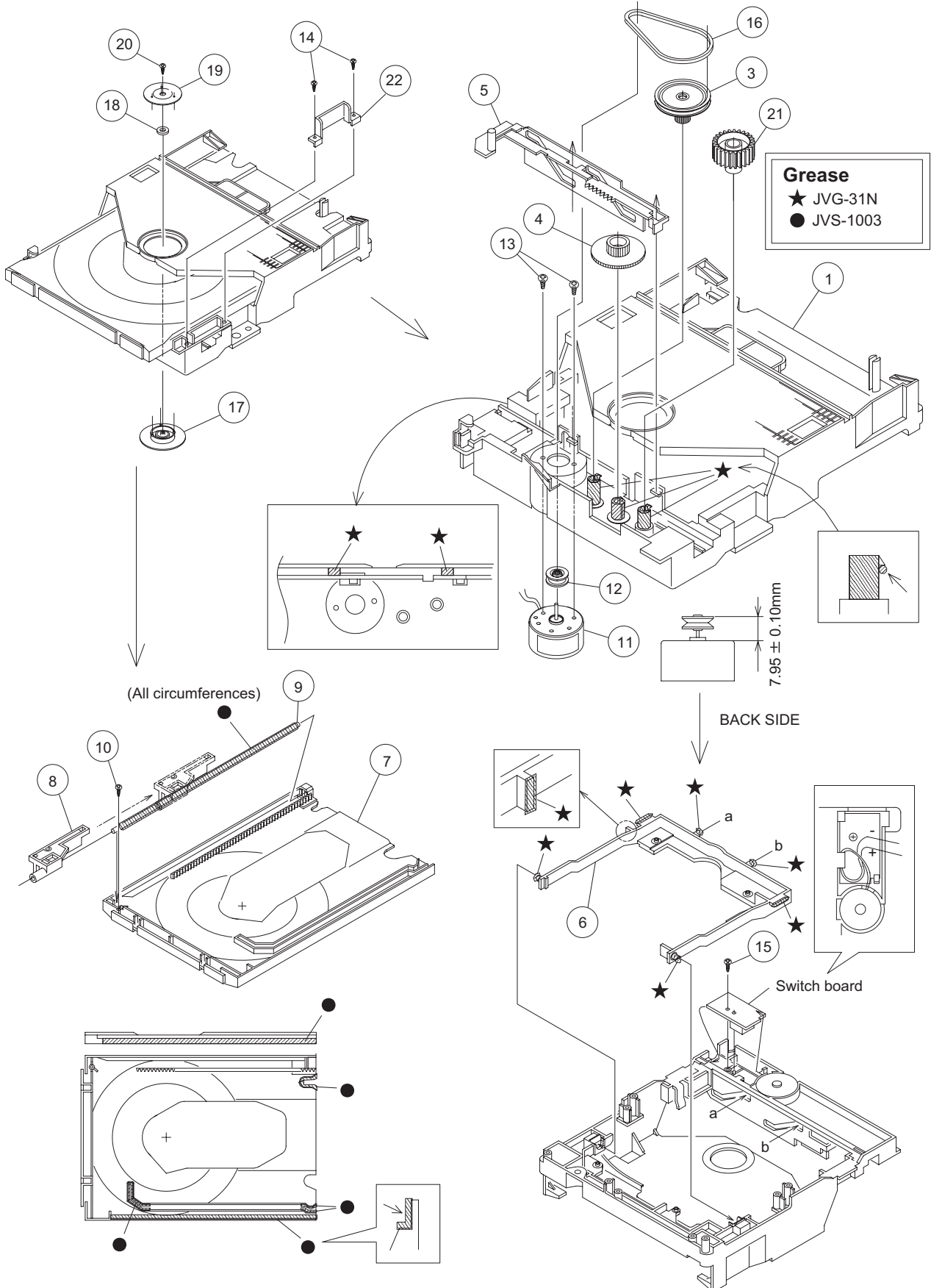
DVD TRAVERSE MECHANISM

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

△ Symbol No.	Part No.	Part Name	Description	Local
1	LE10274-003A	MECHA BASE		
2	LE40896-001A	BAR SPRING		
3	LV41121-002A	SHAFT		
4	QAR0165-001	FEED MOTOR		
5	LV41510-001A	FEED GEAR T		
6	QYSPSPU2040M	SCREW	2mm x 4mm(x2)	
7	LV41511-003A	FEED GEAR M		
8	LV41512-002A	FEED GEAR E		
9	LV41517-003A	LEAD SCREW		
9	LE40918-001A	LEAD SCREW		
10	QAL0452-001	PICK UP		
11	LE20519-001A	SW ACTUATOR		
12	LE30886-001A	LEAD SPRING		
13	QYSPSFU1740Z	SCREW	1.7mm x 4mm(x2)	
14	LE30888-003A	P.U.SPRING		
15	QYSPSGU1430Z	SCREW	1.4mm x 3mm	
16	LV41121-002A	SHAFT		
17	LE40894-001A	T.SPRING		
18	LE40895-002A	BRACKET		
19	QYSDSF2005Z	SCREW	2mm x 5mm	
20	QAL0284-001	FPC		
21	QAR0268-001	SPINDLE MOTOR		
22	QYSPSPU1760Z	SCREW	1.7mm x 6mm(x3)	
23	LE40858-002A	S.SCREW	(x3)	

DVD LOADING MECHANISM ASSEMBLY AND PARTS LIST

ELM-J3-1C Block No.M3MM



DVD LOADING MECHANISM

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

△ Symbol No.	Part No.	Part Name	Description	Local
1	LE10275-003A	LOADER BASE		
3	LE31043-001A	PULLEY GEAR		
4	LE31042-001A	MIDDLE GEAR		
5	LE20665-001A	SLIDE CAM		
6	LE20667-001A	ELEVATOR		
7	LE10276-002A	TRAY		
8	LE31045-001A	BUSHING		
9	LE40898-001A	SHAFT		
10	QYSSSF2008Z	SCREW	2mm x 8mm	
11	QAR0197-001	MOTOR		
12	LV42087-002A	MOTOR PULLEY		
13	QYSPSPU1730Z	SCREW	FOR MOTOR(x2)	
14	QYSDSF2008Z	SCREW	2mm x 8mm(x2)	
15	QYSDSF2006Z	SCREW	FOR BOARD	
16	LE40897-001A	BELT		
17	LE31046-001A	CLAMPER		
18	LV42930-003A	MAGNET		
19	LE40899-001A	YOKE		
20	LE40906-001A	S.SCREW		
21	LE31044-001A	IDLE GEAR		
22	LE40937-001A	LEAF SPRING		

ELECTRICAL PARTS LIST
RELAY BOARD

Block No. [0][1][0][0]				
△ Symbol No.	Part No.	Part Name	Description	Local
CN1	QGF0522F1-30W	CONNECTOR	FFC/FPC (1-30)	
CN2	QGF1016F2-05W	CONNECTOR	FFC/FPC (1-5)	
CN3	QGF1016F2-15W	CONNECTOR	FFC/FPC (1-15)	
CN4	QGF0522F1-50W	CONNECTOR	FFC/FPC (1-50)	
SW1	NSW0127-001X	SLIDE SWITCH		

SERVO CONTROL & SIGNAL OUTPUT
TERMINAL BOARD

Block No. [0][2][0][0]				
△ Symbol No.	Part No.	Part Name	Description	Local
IC101	AN8708FHK	IC		
IC201	BA5983FM-X	IC		
IC251	BA6664FM-X	LSI		
IC301	MN103S26EGB-H	IC		
IC301	or MN103S26EDC-H	IC		
IC402	AK4381VT-X	IC		
IC501	NDV8601VWA-BE	IC		
IC505	W986432DH-7	IC		except XV-N55SL for ver.UF
IC505	HY57V643220CT-5	IC		
IC505	or K4S643232E-TC60	IC		
IC505	or K4S643232E-TC70	IC		
IC509	SST39VF160H0753	IC		only ver.J,C
IC509	SST39VF160H0762	IC		only ver.B,E,EN,EV
IC509	SST39VF160H0772	IC		only ver.EE
IC509	*Part number will be described in MCI			only ver.UF
IC511	LM1117MP1.8-X	IC		
IC512	74LVC373APW-X	IC(DIGITAL)		
IC513	74LVC373APW-X	IC(DIGITAL)		
IC704	74VHCT08ASJ-X	IC		
IC751	NJM5532M-XE	IC		only XV-N55SL for Europe
IC751	NJM4580M-X	IC		only ver.J,C,UF
Q101	KTA1001/Y/-X	TRANSISTOR		
Q102	KTA1001/Y/-X	TRANSISTOR		
Q103	DTA144EE-X	DIGI TRANSISTOR		
Q691	KRC102S-X	DIGI TRANSISTOR		only XV-N55SL for Europe
Q751	2SC3576-JVC-T	TRANSISTOR		
Q752	2SC3576-JVC-T	TRANSISTOR		
Q755	KRC109S-X	TRANSISTOR		
Q756	KRA102S-X	DIGI TRANSISTOR		
Q757	2SC2412K/RS/-X	TRANSISTOR		
Q758	KRA121S-X	DIGI TRANSISTOR		
D101	RB521S-30-X	SB DIODE		
D301	RB521S-30-X	SB DIODE		
D601	1SS355-X	SI DIODE		except XV-N55SL for ver.UF
D611	1SS355-X	SI DIODE		except XV-N55SL for ver.UF
D621	1SS355-X	SI DIODE		except XV-N55SL for ver.UF
D631	1SS355-X	SI DIODE		except XV-N55SL for ver.UF
C105	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C106	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C110	NCS31HJ-101X	C CAPACITOR	100pF 50V J	
C111	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C112	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C115	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C116	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

△ Symbol No.	Part No.	Part Name	Description	Local
C119	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C121	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C124	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C125	NCB31HK-391X	C CAPACITOR	390pF 50V K	
C126	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C127	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C128	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C130	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C131	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C132	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C133	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C134	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C135	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C136	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C137	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C138	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C140	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C141	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C142	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C143	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C144	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C146	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C204	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C205	NCS31HJ-121X	C CAPACITOR	120pF 50V J	
C207	NCB31HK-391X	C CAPACITOR	390pF 50V K	
C208	NCB31HK-391X	C CAPACITOR	390pF 50V K	
C211	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C212	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C216	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C217	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C218	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C251	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C253	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C255	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C256	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C257	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C258	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C259	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C260	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C261	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C262	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C263	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C264	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C301	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C302	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C303	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C304	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C306	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C308	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C310	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C311	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C312	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C313	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C314	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C315	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C316	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C317	NCS31HJ-121X	C CAPACITOR	120pF 50V J	
C318	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C319	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C320	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C321	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C322	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C323	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C324	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C325	NCS31HJ-470X	C CAPACITOR	47pF 50V J	
C326	NCB31CK-183X	C CAPACITOR	0.018uF 16V K	
C327	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C328	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C329	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C330	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C331	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C332	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C333	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C334	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C335	NCB31HK-681X	C CAPACITOR	680pF 50V K		C559	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C
C337	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C560	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C
C338	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C561	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C
C339	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C562	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C340	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C563	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C
C341	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C565	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C342	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C	C566	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C343	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C567	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C
C344	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C	C568	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C
C345	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C569	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C346	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C570	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C347	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C571	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C348	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C572	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C349	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C573	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C350	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C575	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C
C351	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C	C578	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C352	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C	C581	QETN0JM-227Z	E CAPACITOR	220uF 6.3V M	
C360	QETN1EM-476Z	E CAPACITOR	47uF 25V M		C591	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except XV-N55SL for ver.J,C
C400	NCB31HK-102X	C CAPACITOR	1000pF 50V K		C592	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C
C407	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		C592	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	except XV-N55SL for ver.J,C
C408	QEZ0592-108Z	E CAPACITOR	1000uF		C596	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C
C501	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C except XV-N55SL for ver.J,C	C597	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C
C501	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C598	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C
C502	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M		C599	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C
C503	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C602	NCS31HJ-151X	C CAPACITOR	150pF 50V J	
C504	QETN1EM-476Z	E CAPACITOR	47uF 25V M		C603	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C505	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C604	NCS31HJ-680X	C CAPACITOR	68pF 50V J	
C506	NDC31HJ-150X	C CAPACITOR	15pF 50V J		C612	NCS31HJ-151X	C CAPACITOR	150pF 50V J	only XV-N55SL for Europe
C507	NDC31HJ-180X	C CAPACITOR	18pF 50V J		C612	NCS31HJ-680X	C CAPACITOR	68pF 50V J	only ver.J,C,UF
C508	QETN1EM-476Z	E CAPACITOR	47uF 25V M		C613	NCS31HJ-331X	C CAPACITOR	330pF 50V J	only XV-N55SL for Europe
C509	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C613	NCS31HJ-221X	C CAPACITOR	220pF 50V J	only ver.J,C,UF
C512	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C614	NCS31HJ-680X	C CAPACITOR	68pF 50V J	only XV-N55SL for Europe
C514	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C	C614	NCS31HJ-220X	C CAPACITOR	22pF 50V J	only ver.J,C,UF
C515	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C	C622	NCS31HJ-151X	C CAPACITOR	150pF 50V J	only XV-N55SL for Europe
C516	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C	C622	NCS31HJ-680X	C CAPACITOR	68pF 50V J	only ver.J,C,UF
C517	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C623	NCS31HJ-331X	C CAPACITOR	330pF 50V J	only XV-N55SL for Europe
C518	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C623	NCS31HJ-221X	C CAPACITOR	220pF 50V J	only ver.J,C,UF
C519	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C624	NCS31HJ-680X	C CAPACITOR	68pF 50V J	only XV-N55SL for Europe
C520	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C	C624	NCS31HJ-220X	C CAPACITOR	22pF 50V J	only ver.J,C,UF
C521	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C632	NCS31HJ-151X	C CAPACITOR	150pF 50V J	only XV-N55SL for Europe
C523	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C632	NCS31HJ-680X	C CAPACITOR	68pF 50V J	only ver.J,C,UF
C524	QETN1EM-476Z	E CAPACITOR	47uF 25V M		C633	NCS31HJ-331X	C CAPACITOR	330pF 50V J	only XV-N55SL for Europe
C526	QETN1EM-476Z	E CAPACITOR	47uF 25V M		C633	NCS31HJ-221X	C CAPACITOR	220pF 50V J	only ver.J,C,UF
C527	QETN1EM-476Z	E CAPACITOR	47uF 25V M	except XV-N55SL for ver.J,C	C634	NCS31HJ-680X	C CAPACITOR	68pF 50V J	only XV-N55SL for Europe
C528	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C	C634	NCS31HJ-220X	C CAPACITOR	22pF 50V J	only ver.J,C,UF
C529	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C	C638	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	only ver.J,C,UF
C530	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C639	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C531	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C682	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C532	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C751	QFLC1HJ-332Z	M CAPACITOR	3300pF 50V J	
C533	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C752	QFLC1HJ-332Z	M CAPACITOR	3300pF 50V J	
C534	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C753	QFLC1HJ-471Z	M CAPACITOR	470pF 50V J	
C535	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C	C754	QFLC1HJ-471Z	M CAPACITOR	470pF 50V J	
C536	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C	C755	QFLC1HJ-471Z	M CAPACITOR	470pF 50V J	
C537	QETN1EM-476Z	E CAPACITOR	47uF 25V M		C756	QFLC1HJ-471Z	M CAPACITOR	470pF 50V J	
C538	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C757	QTE1E28-476Z	E CAPACITOR	47uF 25V	only XV-N55SL for Europe
C539	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C	C757	QEZ0598-226Z	E CAPACITOR	22uF	only ver.J,C,UF
C540	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C	C758	QTE1E28-476Z	E CAPACITOR	47uF 25V	only XV-N55SL for Europe
C540	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	55UF	C758	QEZ0598-226Z	E CAPACITOR	22uF	only ver.J,C,UF
C541	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C759	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C542	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C760	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C543	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C763	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C544	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C764	QEZ0594-107Z	E CAPACITOR	100uF	
C545	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C765	QEZ0594-107Z	E CAPACITOR	100uF	
C546	QETN1EM-476Z	E CAPACITOR	47uF 25V M		C791	QETN1EM-475Z	E CAPACITOR	4.7uF 25V M	
C547	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C	C793	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M	
C548	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		C794	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C549	QETN1EM-476Z	E CAPACITOR	47uF 25V M						
C550	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z						
C551	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z						
C552	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
C553	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
C554	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z						
C555	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
C556	NCS31HJ-101X	C CAPACITOR	100pF 50V J	only ver.J,C					
C557	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z						
C558	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z						

<Local area>

XV-N50BK 50J:J 50C:C

XV-N55SL 55J:J 55C:C 55B:B 55E:E 55EN:EN 55EV:EV 55EE:EE 55UF:UF

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C795	QETN1EM-476Z	E CAPACITOR	47uF 25V M		R338	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C797	NDC31HJ-151X	C CAPACITOR	150pF 50V J		R339	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C1706	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		R340	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
					R341	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R101	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J		R342	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R102	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R343	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R103	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R344	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R104	NRS125J-270X	MG RESISTOR	27Ω 1/2W J		R360	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	only ver.J,C,UF
R105	NRS125J-270X	MG RESISTOR	27Ω 1/2W J		R404	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R106	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R500	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R107	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R501	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R108	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J		R509	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R110	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J		R510	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R111	NRVA63D-123X	CMF RESISTOR	12kΩ 1/16W D		R511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R112	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		R513	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R113	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R514	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R119	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J		R515	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R120	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J		R519	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R121	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R520	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R125	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J		R521	NQR0129-004X	FERRITE BEADS		only ver.J,C except XV-N55SL for ver.J,C
R128	NRS125J-1R0X	MG RESISTOR	1Ω 1/2W J		R521	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	only ver.J,C except XV-N55SL for ver.J,C
R129	NRS125J-1R0X	MG RESISTOR	1Ω 1/2W J		R522	NQR0129-004X	FERRITE BEADS		only ver.J,C except XV-N55SL for ver.J,C
R201	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J		R522	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	only ver.J,C except XV-N55SL for ver.J,C
R202	NRS125J-1R0X	MG RESISTOR	1Ω 1/2W J		R523	NQR0129-004X	FERRITE BEADS		only ver.J,C except XV-N55SL for ver.J,C
R204	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R523	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R205	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J						
R206	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J		R550	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R207	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R565	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R208	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R566	NRVA63D-122X	CMF RESISTOR	1.2kΩ 1/16W D	
R209	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R570	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R210	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J		R573	NRSA63J-162X	MG RESISTOR	1.6kΩ 1/16W J	
R211	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J		R574	NRSA63J-162X	MG RESISTOR	1.6kΩ 1/16W J	
R212	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R575	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R213	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R576	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R578	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R215	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R583	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R216	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J		R584	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R219	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		R589	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R220	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J		R601	NRSA63F-750X	MG RESISTOR	75Ω 1/16W F	
R221	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		R611	NRSA63F-750X	MG RESISTOR	75Ω 1/16W F	
R222	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R613	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	only ver.J,C,UF
R223	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J		R614	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	only ver.J,C,UF only XV-N55SL for Europe
R230	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R621	NRSA63F-750X	MG RESISTOR	75Ω 1/16W F	only ver.J,C,UF only XV-N55SL for Europe
R251	NRS125J-R47X	MG RESISTOR	0.47Ω 1/2W J		R621	NRSA63F-820X	MG RESISTOR	82Ω 1/16W F	only ver.J,C,UF
R252	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J		R623	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	only ver.J,C,UF only XV-N55SL for Europe
R254	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J		R631	NRSA63F-750X	MG RESISTOR	75Ω 1/16W F	only ver.J,C,UF
R255	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R631	NRSA63F-820X	MG RESISTOR	82Ω 1/16W F	only ver.J,C,UF
R256	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J		R633	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	only ver.J,C,UF only XV-N55SL for Europe
R259	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R634	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	only ver.J,C,UF only XV-N55SL for Europe
R280	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R640	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	only ver.J,C,UF only XV-N55SL for Europe
R301	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R655	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	only XV-N55SL for Europe
R302	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R303	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R657	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R304	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R682	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R305	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R683	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R306	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R685	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	55UF except XV-N55SL for ver.UF
R307	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R686	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	only XV-N55SL for Europe
R308	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
R309	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R697	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R313	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R709	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R317	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R751	NRVA63D-202X	CMF RESISTOR	2kΩ 1/16W D	
R320	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J		R752	NRVA63D-202X	CMF RESISTOR	2kΩ 1/16W D	
R321	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R753	NRVA63D-222X	CMF RESISTOR	2.2kΩ 1/16W D	
R323	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R754	NRVA63D-222X	CMF RESISTOR	2.2kΩ 1/16W D	
R324	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R755	NRVA63D-202X	CMF RESISTOR	2kΩ 1/16W D	
R325	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J		R756	NRVA63D-202X	CMF RESISTOR	2kΩ 1/16W D	
R326	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R757	NRVA63D-222X	CMF RESISTOR	2.2kΩ 1/16W D	
R327	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J		R758	NRVA63D-222X	CMF RESISTOR	2.2kΩ 1/16W D	
R328	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R759	NRVA63D-472X	CMF RESISTOR	4.7kΩ 1/16W D	
R329	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R760	NRVA63D-472X	CMF RESISTOR	4.7kΩ 1/16W D	
R330	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R761	NRVA63D-201X	CMF RESISTOR	200Ω 1/16W D	
R331	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R762	NRVA63D-201X	CMF RESISTOR	200Ω 1/16W D	
R332	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R333	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J						
R334	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R335	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J						
R336	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J						
R337	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J						

<Local area>

XV-N50BK 50J:J 50C:C

XV-N55SL 55J:J 55C:C 55B:B 55E:E 55EN:EN 55EV:EV 55EE:EE 55UF:UF

△ Symbol No.	Part No.	Part Name	Description	Local
R763	NRVA63D-201X	CMF RESISTOR	200Ω 1/16W D	
R764	NRVA63D-201X	CMF RESISTOR	200Ω 1/16W D	
R765	NRVA63D-472X	CMF RESISTOR	4.7kΩ 1/16W D	
R766	NRVA63D-472X	CMF RESISTOR	4.7kΩ 1/16W D	
R767	NRVA63D-561X	CMF RESISTOR	560Ω 1/16W D	
R768	NRVA63D-561X	CMF RESISTOR	560Ω 1/16W D	
R769	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R770	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R771	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R772	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R773	NRVA63D-101X	CMF RESISTOR	100Ω 1/16W D	
R774	NRVA63D-101X	CMF RESISTOR	100Ω 1/16W D	
R782	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R783	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R784	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R785	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R786	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R787	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R788	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R790	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R791	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R792	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R794	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R1781	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R1782	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L501	NQL77GM-100X	COIL	10uH M	
L502	QQL244K-100Z	COIL	10uH K	
L503	QQL244K-100Z	COIL	10uH K	
L504	QQL244K-100Z	COIL	10uH K	
L505	QQL244K-100Z	COIL	10uH K	
L601	NQL77GM-1R0X	COIL	1uH M	
L611	NQL77GM-1R0X	COIL	1uH M	
L612	NQL77GM-1R0X	COIL	1uH M	
L613	NQL77GM-1R0X	COIL	1uH M	
L681	QQL232K-R68Z	COIL	0.68uH K	
CN101	QGF0529C1-50W	CONNECTOR	FFC/FPC (1-50)	
CN502	QGF1201C3-13	CONNECTOR	FFC/FPC (1-13)	
CN631	QGF1201C3-13	CONNECTOR	FFC/FPC (1-13)	only XV-N55SL for Europe
FW501	QUM109-11DGZ4	PARA RIBON WIRE		
J602	QNN0557-001	PIN JACK		only XV-N55SL for Europe
J602	QNN0557-002	PIN JACK		only ver.J,C,UF
J605	QNN0572-001	PIN JACK		only ver.J,C,UF
J700	QNN0575-001	PIN JACK		
J704	QNZ0639-001	PIN+OPT JACK		
K101	NQR0007-002X	FERRITE BEADS		
K508	NQR0007-002X	FERRITE BEADS		
K509	NQR0007-002X	FERRITE BEADS		
K556	NQR0007-002X	FERRITE BEADS		
K557	NQR0201-011X	RES. C.M		only ver.J,C except XV-N55SL for ver.J,C
K557	NQR0007-002X	FERRITE BEADS		only ver.J,C except XV-N55SL for ver.J,C
K558	NQR0201-011X	RES. C.M		only ver.J,C except XV-N55SL for ver.J,C
K558	NQR0007-002X	FERRITE BEADS		only ver.J,C except XV-N55SL for ver.J,C
K559	NQR0201-011X	RES. C.M		only ver.J,C except XV-N55SL for ver.J,C
K559	NQR0007-002X	FERRITE BEADS		only ver.J,C except XV-N55SL for ver.J,C
K682	NQR0227-004X	FERRITE BEADS		
K791	NQR0227-004X	FERRITE BEADS		
K792	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	only ver.J,C except XV-N55SL for ver.J,C
K792	NQR0227-004X	FERRITE BEADS		only ver.J,C except XV-N55SL for ver.J,C
X301	NAX0566-001X	CRYSTAL		
X571	NAX0550-001X	CRYSTAL		
OT1	E3400-431	SPACER		only XV-N55SL for Europe

POWER SUPPLY BOARD

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

△ Symbol No.	Part No.	Part Name	Description	Local
IC701	UPD789074MC-026	IC		
IC702	IC-PST3527N-X	IC		
IC801	PT6315	IC		
IC802	GP1UE271XK	RM RECIVER		
△ IC901	MIP2C40MP	IC		
IC951	MM1565AF-X	IC	5.0V Regulator	
IC952	TL431/AV-T	IC		
Q696	KRA102S-X	DIGI TRANSISTOR		only XV-N55SL for Europe
Q701	KRC107S-X	DIGI TRANSISTOR		
Q753	2SC3576-JVC-T	TRANSISTOR		only XV-N55SL for Europe
Q754	2SC3576-JVC-T	TRANSISTOR		only XV-N55SL for Europe
Q821	KRC107S-X	DIGI TRANSISTOR		
Q822	KRC107S-X	DIGI TRANSISTOR		
Q823	KRA102S-X	DIGI TRANSISTOR		
Q825	KRC107S-X	DIGI TRANSISTOR		
Q826	KRC107S-X	DIGI TRANSISTOR		
Q951	2SC3576-JVC-T	TRANSISTOR		
Q952	KRA104S-X	DIGI TRANSISTOR		
Q953	2SD2264/R-T	TRANSISTOR		
D700	1SS133-T2	SI DIODE		
D701	1SS133-T2	SI DIODE		
D803	1SS133-T2	SI DIODE		
D804	1SS133-T2	SI DIODE		
D805	1SS133-T2	SI DIODE		
D806	1SS133-T2	SI DIODE		
D821	204-10SUBC/A4UV	LED		
D822	204-10SUBC/A4UV	LED		
D823	SPR-325MVWL/-T	LED	GREEN-RED	only ver.J,C,UF
D825	SPR-325MVWL/-T	LED	GREEN-RED	
△ D901	DI106	BRIDGE DIODE		
△ D902	1F4-T2	FR DIODE		
△ D903	1F4-T2	FR DIODE		
△ D904	1SS244-T2	SI DIODE		
△ D951	1F4-T2	FR DIODE		
△ D952	1F4-T2	FR DIODE		
△ D953	UF304G-F82	DIODE		
△ D954	1F4-T2	FR DIODE		
△ D955	PS154R-F83	DIODE		
D956	1F4-T2	FR DIODE		
D957	1F4-T2	FR DIODE		
D960	MTZJ2.0B-T2	Z DIODE		
PC901	PC123Y22	IC(PHOTO COUPLER)		
C654	NCB31HK-471X	C CAPACITOR	470pF 50V K	only XV-N55SL for Europe
C655	NCB31HK-471X	C CAPACITOR	470pF 50V K	only XV-N55SL for Europe
C700	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C702	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C703	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C704	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C705	NCS31HJ-331X	C CAPACITOR	330pF 50V J	
C706	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M	
C707	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C709	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C761	QTE1E28-476Z	E CAPACITOR	47uF 25V	only XV-N55SL for Europe
C762	QTE1E28-476Z	E CAPACITOR	47uF 25V	only XV-N55SL for Europe
C802	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C803	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C804	QKCC1HM-475Z	E CAPACITOR	4.7uF 50V M	
C805	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C808	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C809	NCF21HZ-104X	C CAPACITOR	0.1uF 50V Z	
△ C902	QFZ9073-683	MM CAPACITOR	0.068uF AC250V M	
△ C904	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
C906	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
C907	QETM2DM-566	E CAPACITOR	56uF 200V M	only ver.J,C

<Local area>

XV-N50BK 50J:J 50C:C

XV-N55SL 55J:J 55C:C 55B:B 55E:E 55EN:EN 55EV:EV 55EE:EE 55UF:UF

(No.A0041)3-11

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C907	QETM2GM-476	E CAPACITOR	47uF 400V M	except XV-N55SL for ver.J,C	R807	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
△ C908	QCZ0136-332Z	C CAPACITOR	3300pF 1kV K		R808	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C913	QCZ0136-101Z	C CAPACITOR	100pF 1kV K	except XV-N55SL for ver.UF	R809	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C913	QCZ0302-470Z	C CAPACITOR	47pF 1kV J	55UF	R811	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C914	QEZ0598-226Z	E CAPACITOR	22uF		R812	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C915	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R821	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
△ C918	QFZ9073-683	MM CAPACITOR	0.068uF AC250V M		R822	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J	
C950	QEZ0592-107Z	E CAPACITOR	100uF		R823	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C951	QETN1EM-226Z	E CAPACITOR	22uF 25V M		R824	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	only ver.J,C,UF
C952	QEZ0592-108Z	E CAPACITOR	1000uF		R825	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	only ver.J,C,UF
C953	QEZ0598-226Z	E CAPACITOR	22uF		R826	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
C954	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	except XV-N55SL for ver.UF	R827	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J	
C954	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	55UF	△ R901	QRL01DJ-683X	OMF RESISTOR	68kΩ 1W J	
C955	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M		△ R903	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	
C958	QEZ0529-477Z	E CAPACITOR	470uF 10V M		R906	QRE141J-274Y	C RESISTOR	270kΩ 1/4W J	
C959	QETN1AM-107Z	E CAPACITOR	100uF 10V M		△ R910	QRZ9037-335	COMPRESISTOR	3.3MΩ 1/2W K	
C960	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		R912	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
C963	QEZ0594-107Z	E CAPACITOR	100uF		R913	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
C964	QEZ0594-107Z	E CAPACITOR	100uF		R915	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
C965	QTE1E28-476Z	E CAPACITOR	47uF 25V	only XV-N55SL for Europe	R952	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C965	QETN1CM-107Z	E CAPACITOR	100uF 16V M	only ver.J,C,UF	R953	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C966	QTE1E28-476Z	E CAPACITOR	47uF 25V	only XV-N55SL for Europe	△ R954	QRZ9005-100X	F.RES I/M	10Ω	
C966	QETN1CM-107Z	E CAPACITOR	100uF 16V M	only ver.J,C,UF	R955	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C967	QEZ0594-337Z	E CAPACITOR	330uF		R956	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C969	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z		R960	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
C971	NCS31HJ-471X	C CAPACITOR	470pF 50V J		R961	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C972	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		R962	NRSA63F-392X	MG RESISTOR	3.9kΩ 1/16W F	
C973	QETN0JM-107Z	E CAPACITOR	100uF 6.3V M		R964	NRSA63F-103X	MG RESISTOR	10kΩ 1/16W F	
C982	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		R965	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
C988	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R966	QRE141J-470Y	C RESISTOR	47Ω 1/4W J	
C993	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R967	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
					R968	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R651	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	only XV-N55SL for Europe	L709	QQL231K-2R2Y	UCTOR I.M	2.2uH K	
R652	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	only XV-N55SL for Europe	△ L901	QQR0816-001	LINE FILTER		
R653	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	only XV-N55SL for Europe	L951	QQR1291-001Z	CHOKE COIL		
R654	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	only XV-N55SL for Europe	L952	QQR1291-001Z	CHOKE COIL		
R658	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	only XV-N55SL for Europe	L953	QQL531J-220Y	COIL	22uH J	
R659	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	only XV-N55SL for Europe	L954	QQL531J-220Y	COIL	22uH J	
R670	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	only XV-N55SL for Europe	L955	QQR1291-001Z	CHOKE COIL		
R671	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	only XV-N55SL for Europe	△ T901	QQS0197-001	SW TRANSF		
R701	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	only ver.J,C,UF	CN651	QGF1201C3-13	CONNECTOR	FFC/FPC (1-13)	only XV-N55SL for Europe
R702	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN801	QGF1201C3-14	CONNECTOR	FFC/FPC (1-14)	
R703	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN802	QGF1016F3-11	CONNECTOR	FFC/FPC (1-11)	
R705	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN852	QGF1016F3-11	CONNECTOR	FFC/FPC (1-11)	
R706	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		CN901	QGF1201C3-14	CONNECTOR	FFC/FPC (1-14)	
R707	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	except XV-N55SL for ver.J,C	CN902	QGD2504C1-04Z	CONNECTOR	(1-4)	
R708	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN903	QGD2504C1-05Z	CONNECTOR	(1-5)	
R710	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	only ver.J,C,UF	CN904	QGF1201C3-13	CONNECTOR	FFC/FPC (1-13)	
R711	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		△ CP951	ICP-N10-T	IC PROTECTOR	400mA	
R712	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		DI801	QLF0118-001	FL TUBE		
R713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		EP910	E409182-001SM	GRAND TERMINAL		
R715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		EP951	QNZ0136-001Z	EARTH PLATE		
R720	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		EP952	QNZ0136-001Z	EARTH PLATE		
R775	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	only XV-N55SL for Europe	EP953	QNZ0136-001Z	EARTH PLATE		
R776	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	only XV-N55SL for Europe	FC901	QNG0003-001Z	FUSE CLIP		
R777	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	only XV-N55SL for Europe	FC902	QNG0003-001Z	FUSE CLIP		
R778	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	only XV-N55SL for Europe	FL901	LE40845-001A	FUSE LABEL		only XV-N55SL for Europe
R779	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	only XV-N55SL for Europe	J603	QNZ0610-001	RGB CONNECTOR		only XV-N55SL for Europe
R780	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	only XV-N55SL for Europe	J702	QNS0221-001	3.5 JACK		
R802	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		P901	QGA7901C1-02	CONNECTOR	W-B (1-2)	
R804	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		S801	QSW0651-001Z	TACT SWITCH		
					S802	QSW0651-001Z	TACT SWITCH		
					S803	QSW0651-001Z	TACT SWITCH		
					S804	QSW0651-001Z	TACT SWITCH		
					S805	QSW0651-001Z	TACT SWITCH		
					S806	QSW0651-001Z	TACT SWITCH		
					S807	QSW0651-001Z	TACT SWITCH		
					S901	QSW0454-001	SW		except XV-N55SL for ver.J,C
					S902	QSW0986-001	SLIDE SWITCH		only ver.J,C,UF
					X701	QAX0756-001Z	C OSCILLATOR		
					OT1	GN30006-020A	SPACER		except XV-N55SL for ver.UF

<Local area>

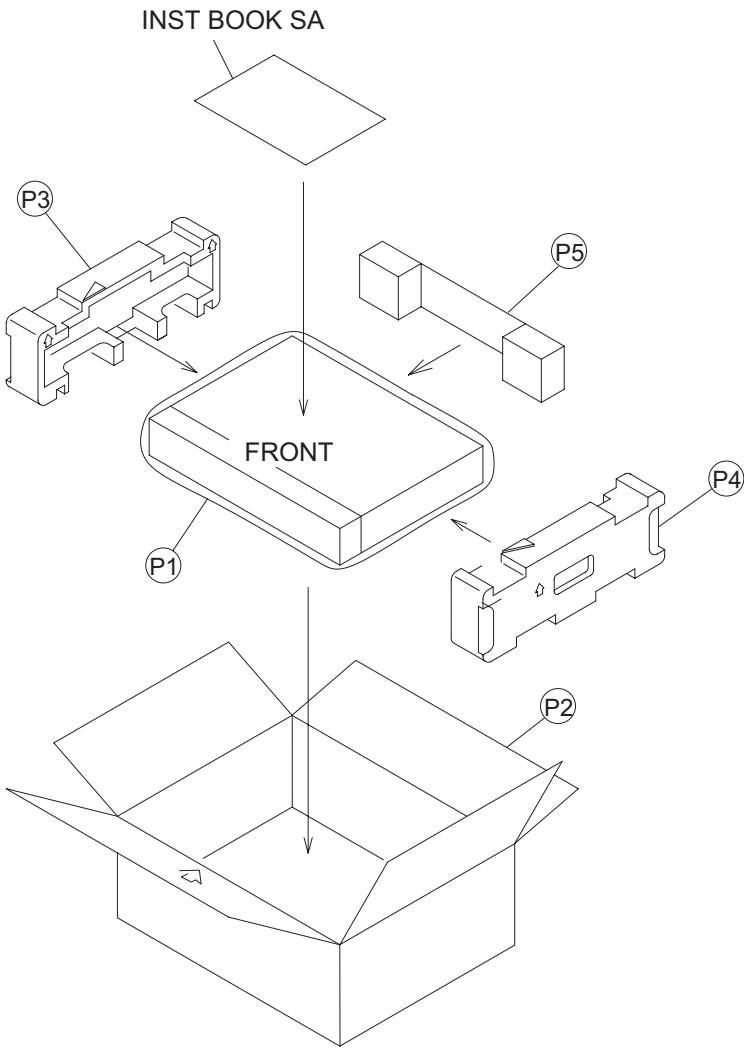
XV-N50BK 50J:J 50C:C

XV-N55SL 55J:J 55C:C 55B:B 55E:E 55EN:EN 55EV:EV 55EE:EE 55UF:UF

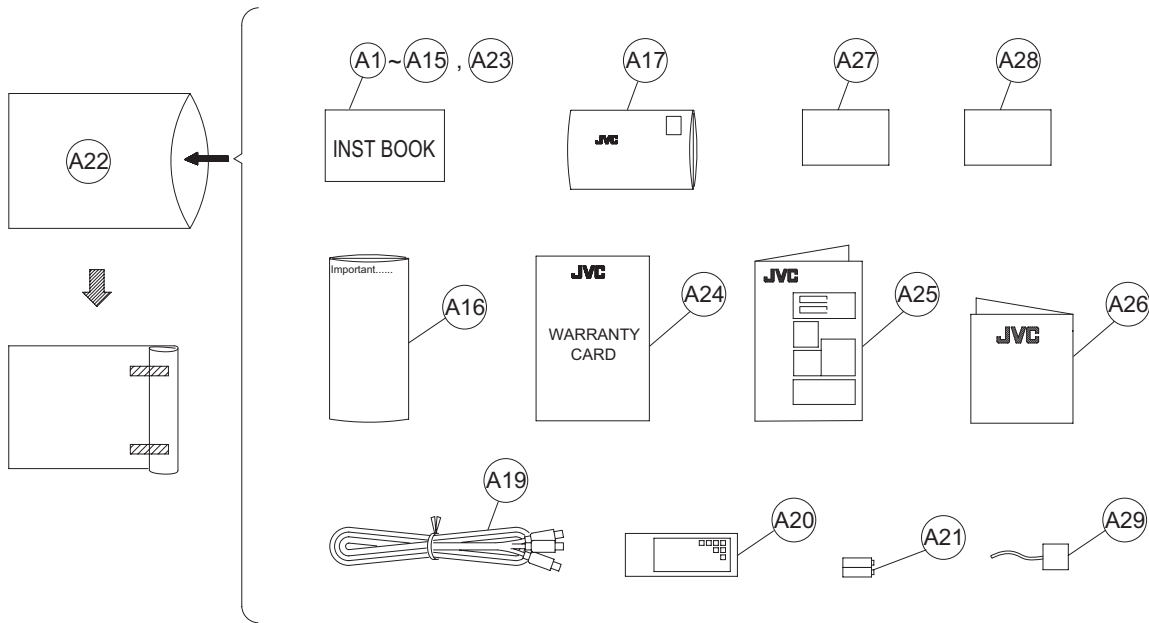
△ Symbol No.	Part No.	Part Name	Description	Local
OT2	GN30006-021A	SPACER	(x2)	except XV-N55SL for ver.UF
OT3	E3400-431	SPACER		
OT4	GN30006-016A	SPACER		55UF
OT5	GN30006-017A	SPACER		55UF

PACKING MATERIALS AND ACCESSORIES PARTS LIST

Block No.M4MM



INST BOOK SA



PACKING AND ACCESSORIES

Block No. [M][4][M][M]

Symbol No.	Part No.	Part Name	Description	Local
A 1	LET0230-001A	INST BOOK		50J,55J
A 2	LET0230-002A	INST BOOK		50C,55C
A 3	LET0230-004A	INST BOOK		55B
A 4	LET0230-005A	INST BOOK		55E,55EN
A 5	LET0230-006A	INST BOOK		55E,55EN
A 6	LET0230-007A	INST BOOK		55E
A 7	LET0230-008A	INST BOOK		55EN
A 8	LET0230-009A	INST BOOK		55EN
A 9	LET0230-010A	INST BOOK		55EN
A10	LET0230-011A	INST BOOK		55EN
A11	LET0230-012A	INST BOOK		55EN
A12	LET0230-013A	INST BOOK		55EE
A13	LET0230-014A	INST BOOK		55EV
A14	LET0230-015A	INST BOOK		55EV
A15	LET0230-016A	INST BOOK		55EV
A16	YU20333	SAFETY INST.		only ver.J,C
A17	BT-51028-2	J=REGIST CARD		50J,55J
A19	QAM0328-001	AV CORD 3P		
A20	RM-SXV038J	REMOCON UNIT		50C,50J
A20	RM-SXV040E	REMOCON UNIT		only XV-N55SL for Europe
A20	RM-SXV039J	REMOCON UNIT		55C,55J
A20	RM-SXV055U	REMOCON UNIT		55UF
A21	-----	BATTERY	(x2)	
A22	QPC02504015P	POLY BAG	25cm x 40cm	
A23	LET0230-003A	INST BOOK		55UF
A24	BT-52006-2	WARRANTY CARD		50C,55C
A24	BT-54008-4	WARRANTY CARD		55B,55E,55EN
A24	BT-59007-2	WARRANTY CARD		55UF
A25	BT-54012-3	W.CARD		55EE,55EV
A26	VNA3000-204	REGIST.CARD		55B
A27	LE40932-003A	CUSTOM PARTS		only XV-N55SL for Europe
A27	LE40932-002A	CUSTOM PARTS		only ver.J,C
A28	BT-59009-1	SVC CENTER LIST		55UF
A29	E310162-001	CERTIFICATE TAG		55UF
P 1	QPC06005515P	POLY BAG	60cm x 55cm	
P 2	GN10046-001A	PACKING CASE		50C,50J
P 2	GN10046-003A	PACKING CASE		55B
P 2	GN10046-005A	PACKING CASE		55EE
P 2	GN10046-004A	PACKING CASE		55E,55EN,55EV
P 2	GN10046-002A	PACKING CASE		55C,55J
P 2	GN10046-012A	PACKING CASE		55UF
P 3	GN20067-001A	PACKING PAD(L)		only XV-N55SL for Europe
P 3	GN20065-001A	PACKING PAD(L)		only ver.J,C
P 3	GN20069-001A	PACKING PAD(L)		55UF
P 4	GN20068-001A	PACKING PAD(R)		only XV-N55SL for Europe
P 4	GN20066-001A	PACKING PAD(R)		only ver.J,C
P 4	GN20070-001A	PACKING PAD(R)		55UF
P 5	GN30068-001A	SHEET ASSY		55B

<Local area>

XV-N50BK 50J:J 50C:C

XV-N55SL 55J:J 55C:C 55B:B 55E:E 55EN:EN 55EV:EV 55EE:EE 55UF:UF