

JVC

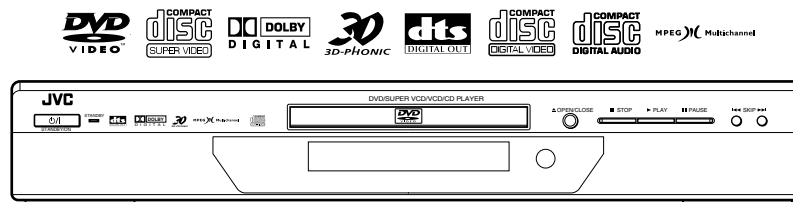
SERVICE MANUAL

DVD VIDEO PLAYER

XV-S300BK / XV-S302SL

Area Suffix

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



Each difference point

Model	Body color
XV-S300BK	Black
XV-S302SL	Silver

Contents

Safety precautions	1-2	Adjustment method	1-15
Preventing static electricity	1-3	Attention when pick-up is exchanged	1-19
Precautions for service	1-4	Confirm method of operation	1-20
Important for laser products	1-5	Troubleshooting	1-21
Disassembly method	1-6	Description of major ICs	1-25

Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by ($\triangle$) 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 current check (Electrical 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.

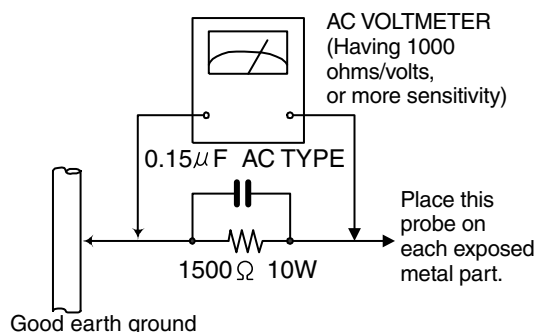
Do not use a line isolation transformer during this check.

- 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 $1,500\ \Omega$ 10W resistor paralleled by a $0.15\ \mu\text{F}$ 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.).



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.

CAUTION

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

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 ($\blacksquare$) and ICP ($\bullet$) or identified by the " $\triangle$ " 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 J and C version)

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.

1.1. Grounding to prevent damage by static electricity

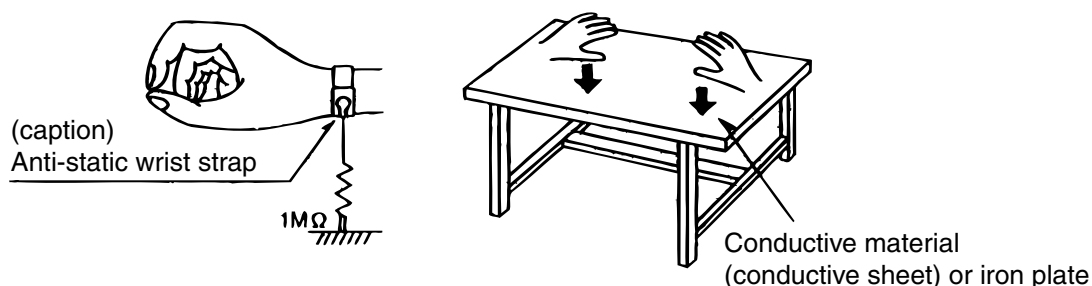
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as DVD players. Be careful to use proper grounding in the area where repairs are being performed.

1.1.1. Ground the workbench

1. 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.

1.1.2. Ground yourself

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



1.1.3. Handling the optical pickup

1. 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.)
2. 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.

1.2. 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

Precautions for service

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.

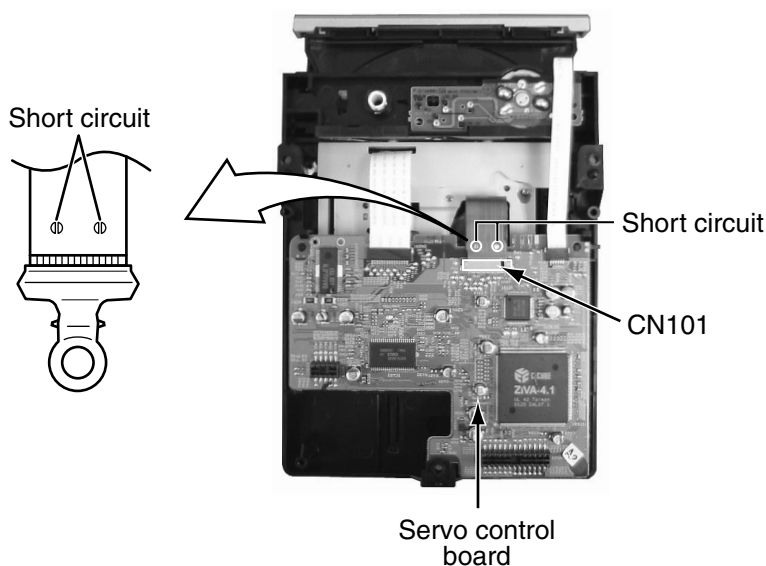
Do not change the setting of these half-fixed resistors for laser power adjustment.

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. After removing the flexible wire from the connector (CN101), short-circuit the flexible wire by the metal clip.
4. 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.

Please refer to "Fig.4" of "Disassembly method" for details.



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.

WARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

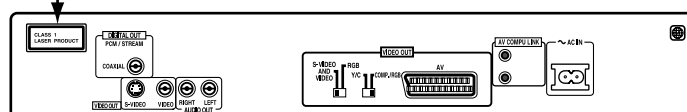
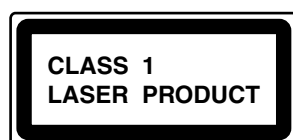
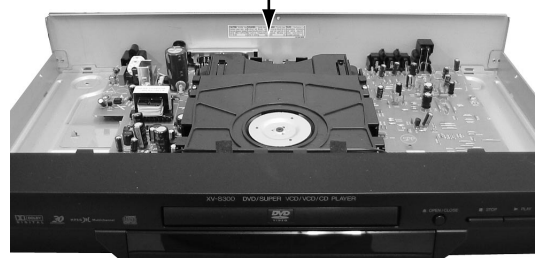
ADVARSEL : Usynlig laserstrålning ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

ADVARSEL : Usynlig laserstrålning ved åpning,når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABEL and PRINT

WARNING LABEL and PRINT

CAUTION: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	WARNING: Osynlig laserstrålning när denna del är öppnad och spårren är urkopplad. Betrakta ej strålen. (s)	ADVARSEL: Usynlig laserstrålning ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (d)	VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)
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Disassembly method

<Main body>

■ Removing the top cover (see Fig.1)

1. Remove the two screws **A** attaching the top cover on both sides of the body.
2. Remove the three screws **B** attaching the top cover on the back of the body.
3. Remove the top cover from the body by lifting the rear part of the top cover.

ATTENTION: Do not break the front panel tab fitted to the top cover.

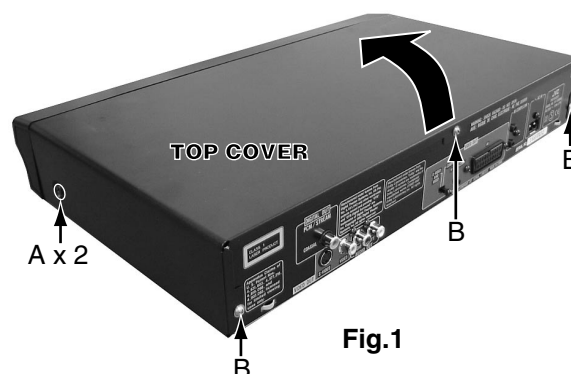


Fig.1

■ Removing the mechanism assembly (see Fig.2,3)

- * Prior to performing the following procedure, remove the top cover.
- * There is no need to remove the front panel assembly.

1. Remove the three screws **C** attaching the mechanism assembly on the bottom chassis.
2. Remove the two screws **D** attaching the lug wire and main board on the main board.
3. The servo control board is removed from the connector CN961 and CN701 connected with the main board respectively.
4. Remove the mechanism assembly by lifting the rear part of the mechanism assembly.

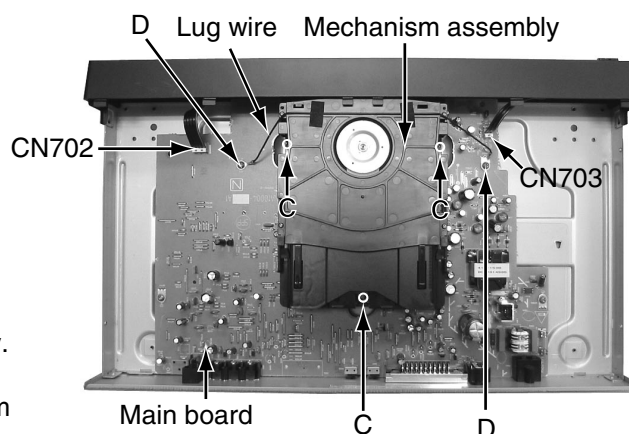


Fig.2

■ Removing the servo control board (see Fig.4)

- * Prior to performing the following procedure, remove the top cover and mechanism assembly.

1. Disconnect the card wire from connector CN201 and CN202 on the servo control board respectively.
2. Disconnect the flexible wire from connector CN101 on the servo control board from pick-up.

< ATTENTION >

At this time, please extract the wire after short-circuited of two places on the wire in part **a** with solder. Please remove the solder two places of part **a** after connecting the wire with CN101 when reassembling.

3. Two places in hook **b** are removed, the servo control board is lifted, and it is removed.

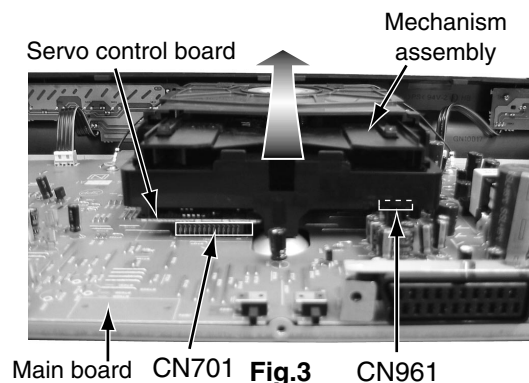


Fig.3

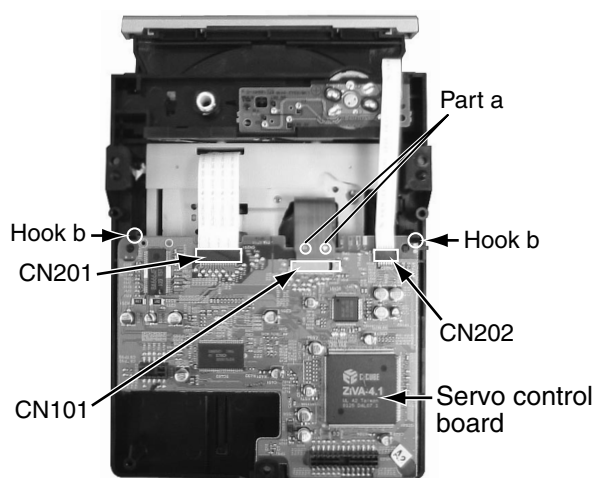


Fig.4

■ Removing the rear panel (see Fig.5)

*Prior to performing the following procedure, remove the top cover.

- 1.Remove the eight screws **E** attaching the rear panel on the back of the body.

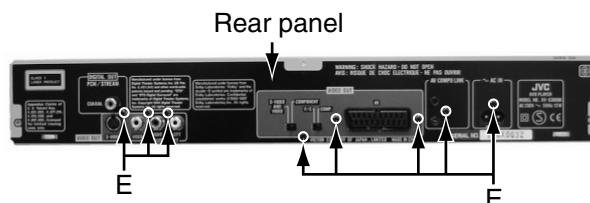


Fig.5

■ Removing the front panel assembly (see Fig.6,7)

* Prior to performing the following procedure, remove the top cover.

* There is no need to remove the mechanism assembly.

- 1.Remove the one screw **F** attaching the front panel assembly on the bottom chassis.
- 2.Disconnect the wire from CN702 and CN703 on the main board respectively.
- 3.Hook **c** and **d** are removed respectively, and the front panel assembly is removed.

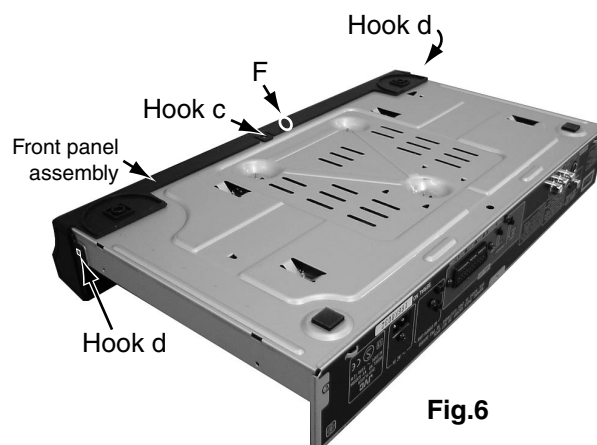


Fig.6

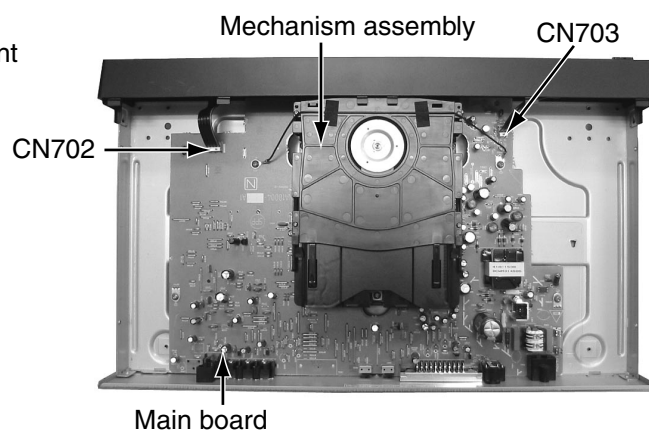


Fig.7

■ Removing the main board (see Fig.8)

* Prior to performing the following procedure, remove the top cover, mechanism assembly and rear panel.

- 1.Disconnect the wire from CN702 and CN703 on the main board respectively.
- 2.Remove the four screws **G** attaching the main board on the bottom chassis.

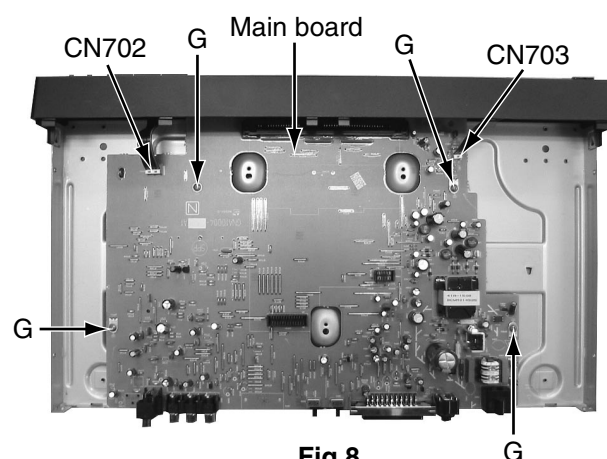


Fig.8

<Loading assembly section>

■ Removing the clamber assembly (See Fig.1)

1. Remove the four screws **A** attaching the clamber assembly.
2. Move the clamber in the direction of the arrow to release the two joints **a** on both sides.

ATTENTION: When reattaching, fit the clamber to the two joints **a**.

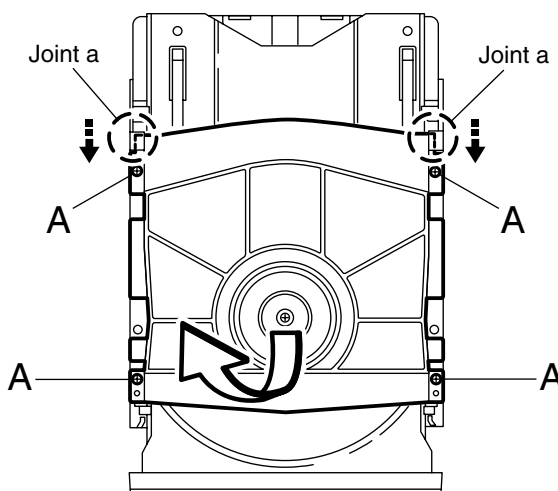


Fig.1

■ Removing the tray (See Fig.2 and 3)

- Prior to performing the following procedure, remove the clamber assembly.
1. Push **b** of the slide cam into the slot on the left side of the loading base until it stops.
 2. Draw out the tray toward the front.

ATTENTION: Before reattaching the tray, slide the part **c** of the slide cam to the right as shown in Fig.3.

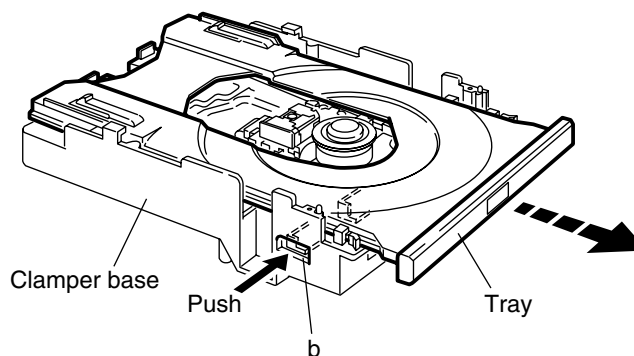


Fig.2

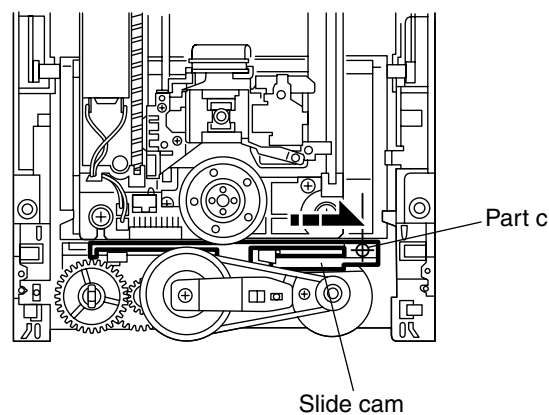


Fig.3

■ Removing the traverse mechanism assembly (See Fig.4 and 5)

- Prior to performing the following procedure, remove the clamber assembly and the tray.

1. Remove the four screws **B** attaching the traverse mechanism assembly.

ATTENTION: Before reattaching the traverse mechanism assembly, pass the card wire extending from the spindle motor board through the notch **d** of the elevator.

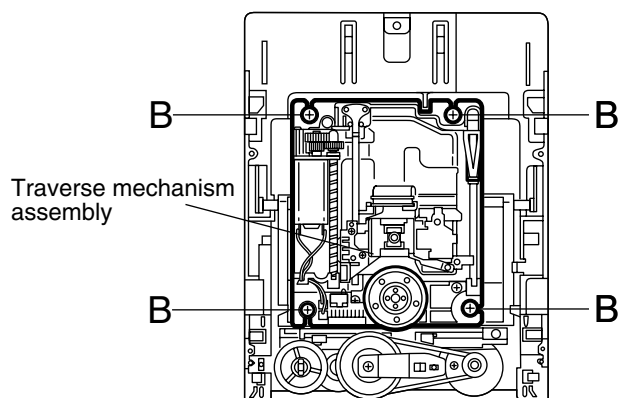


Fig.4

■ Removing the elevator (See Fig.6 and 7)

- Prior to performing the following procedure, remove the clamber assembly, the tray and the traverse mechanism assembly.

1. Extend each bar **e** inside of the loading base outward and detach the elevator shaft.

ATTENTION: When reattaching, first fit the two shafts on the front of the elevator to the slots **f** of the slide cam.

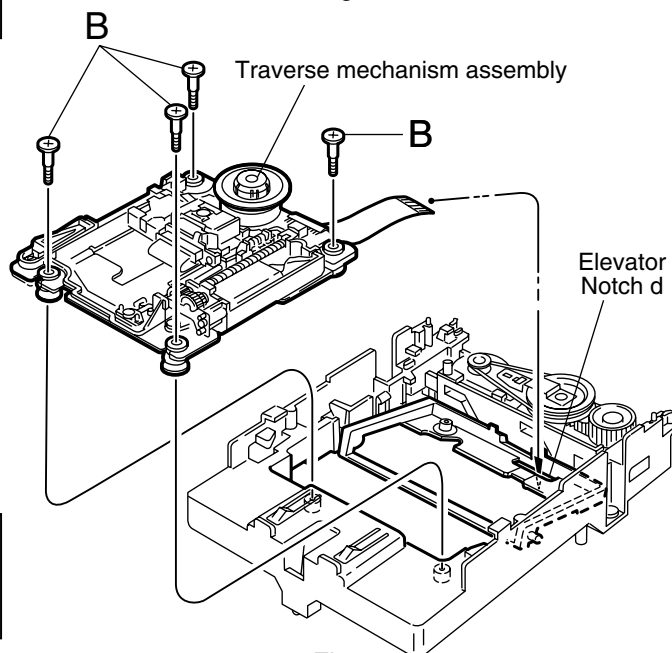


Fig.5

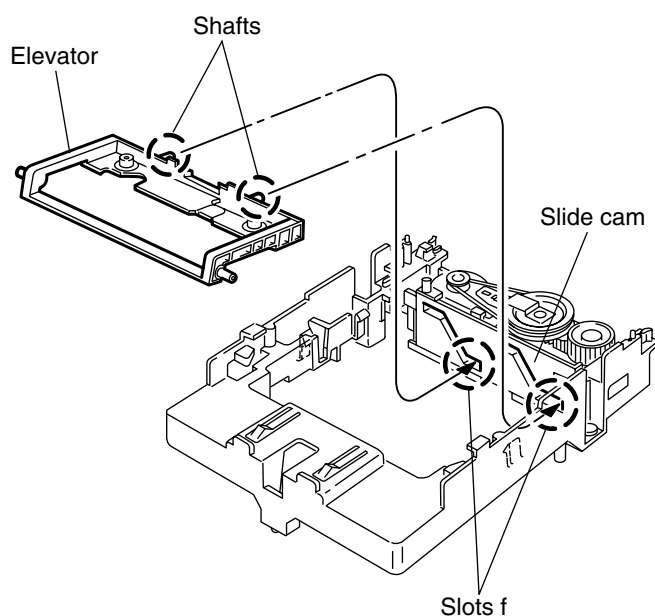


Fig.7

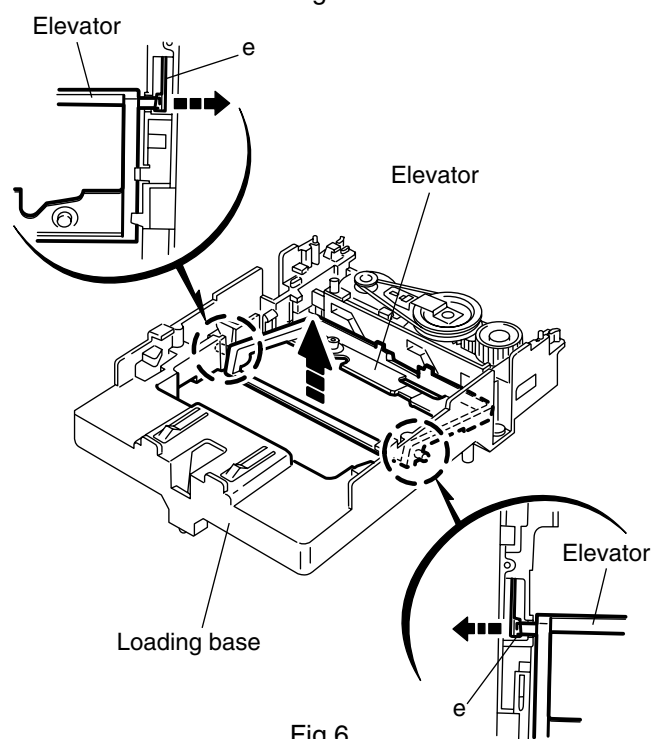


Fig.6

■ Removing the motor assembly

(See Fig.8 and 9)

- Prior to performing the following procedure, remove the clamper assembly, the tray, the traverse mechanism assembly and the elevator.

1. Remove the belt from the pulley.
2. Remove the screw **C** attaching the motor assembly.
3. Turn over the body and remove the screw **D** attaching the motor assembly.
4. Release the two tabs **g** retaining the motor board.

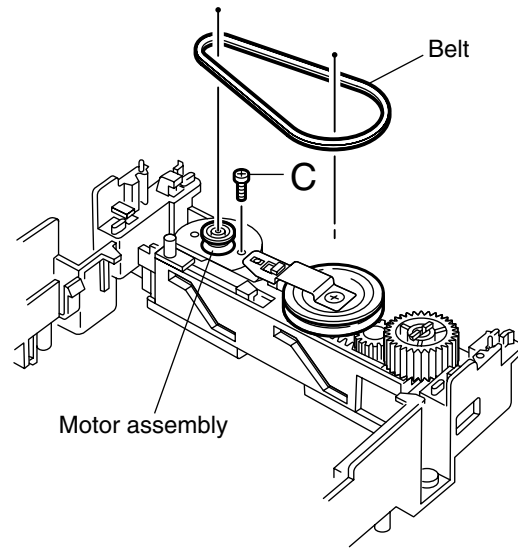


Fig.8

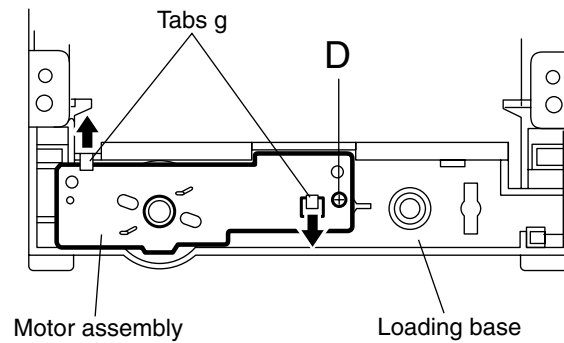


Fig.9

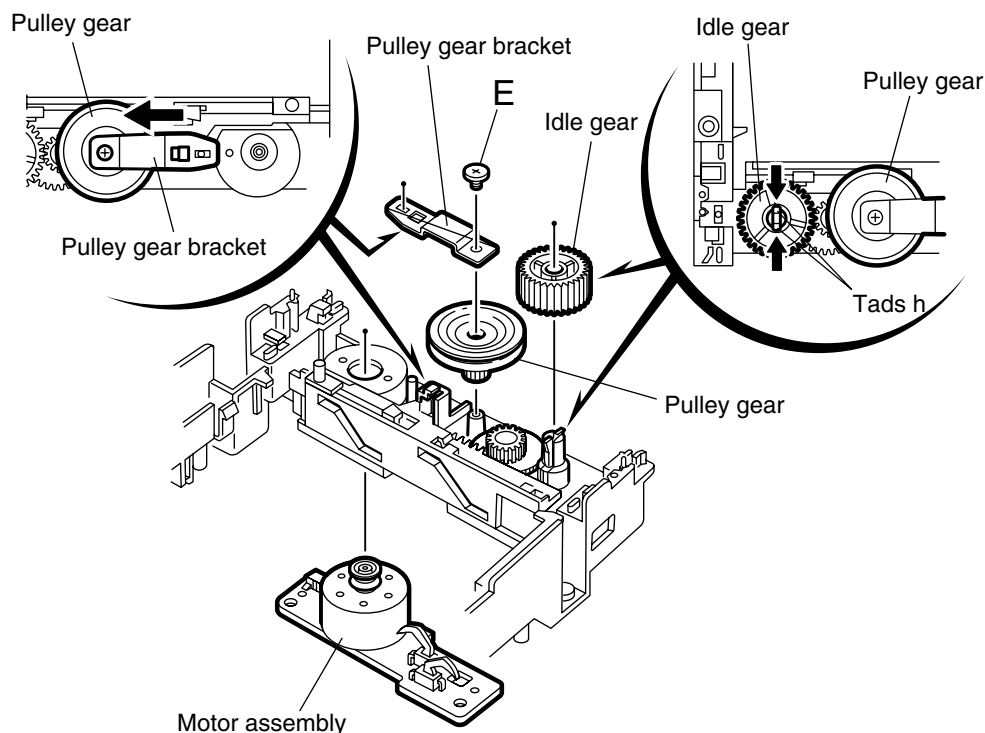


Fig.10

■ Removing the Idle gear / pulley gear / middle gear / slide cam (See Fig.10 to 12)

- Prior to performing the following procedure, remove the clamber assembly, the tray, the traverse mechanism assembly, the elevator and the motor assembly.

1. Press the two tabs **h** inward and pull out the idle gear.
2. Remove the screw **E** attaching the pulley gear bracket. Slide the pulley gear bracket in the direction of the arrow and pull out the pulley gear.
3. Slide the slide cam in the direction of the arrow to release the two joints **i** and remove upward.
4. Remove the middle gear.

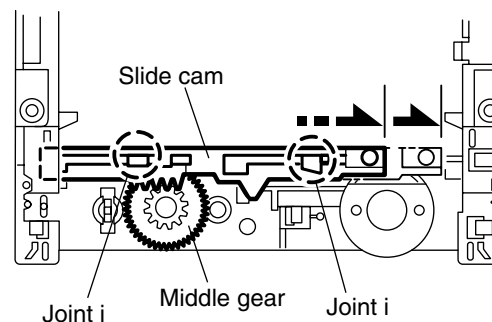


Fig.11

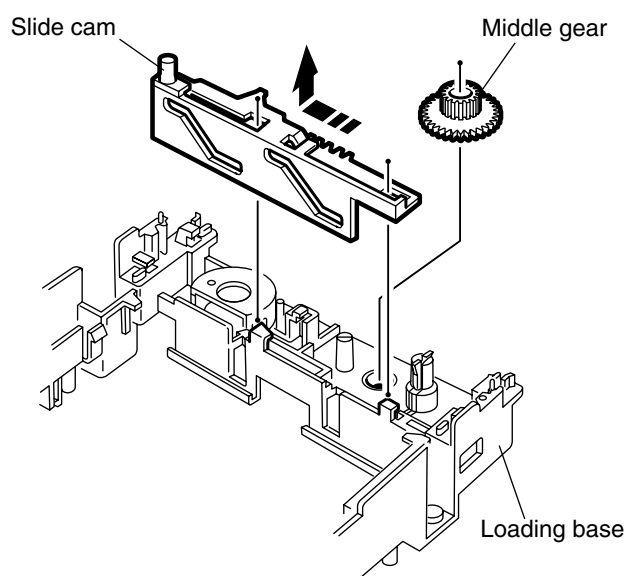


Fig.12

<Traverse mechanism assembly section>

■ Removing the feed motor assembly (See Fig.13)

1. Unsolder the two soldering **j** on the spindle motor board.
2. Remove the two screws **F** attaching the feed motor assembly.

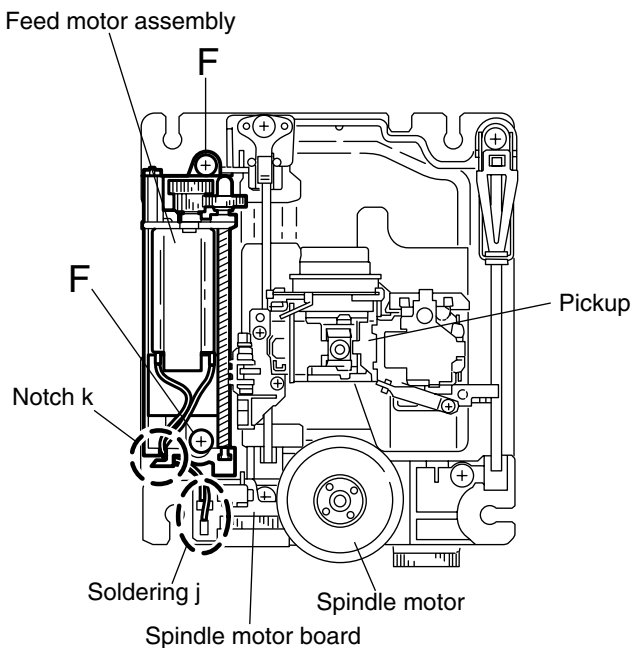


Fig.13

■ Removing the feed motor (See Fig.13 to 15)

- Prior to performing the following procedure, remove the feed motor assembly.

1. Remove the screw **G** attaching the thrust spring.

ATTENTION: When reattaching the thrust spring, make sure that the thrust spring presses the feed gear (M) and the feed gear (E) reasonably.

2. Remove the feed gear (M).
3. Pull out the feed gear (E) and the lead screw.
4. Remove the two screws **H** attaching the feed motor.

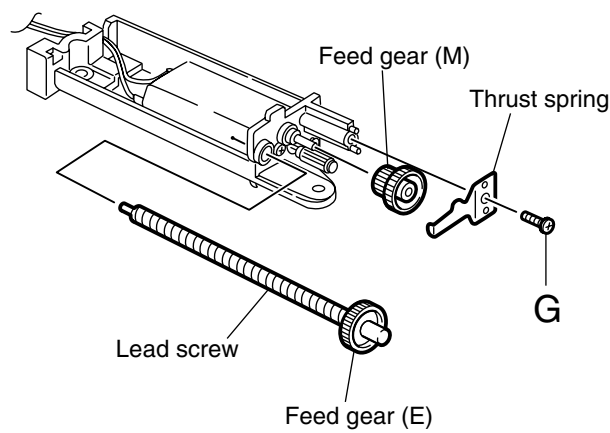


Fig.14

ATTENTION: When reattaching, pass the two cables extending from the feed motor through the notch **k** of the feed holder as shown in Fig.13.

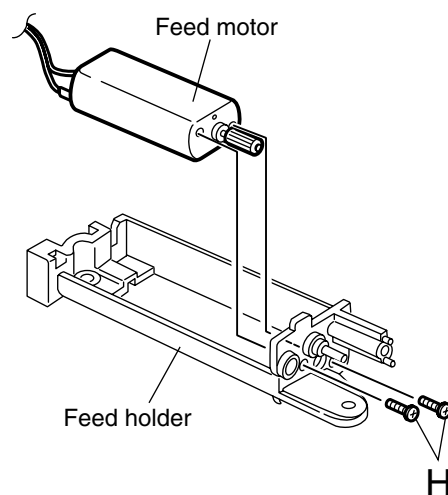


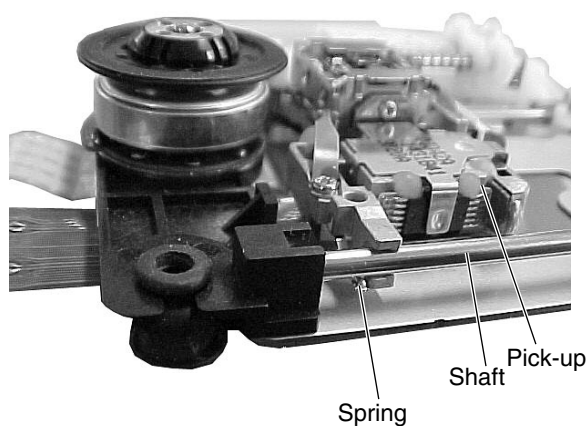
Fig.15

■ Removing the pickup (See Fig.16 and 17)

1. Remove the screw **I** attaching the T spring (S) and the shaft holder. Remove also the plate.

ATTENTION: When reattaching, make sure that the T spring (S) presses the shaft.

2. Pull out the part **l** of the shaft upward. Move the part **m** in the direction of the arrow and detach from the spindle base.
3. Disengage the joint **n** of the pickup and the shaft in the direction of the arrow.
4. Pull out the shaft from the pickup.
5. Remove the two screws **J** attaching the actuator.
6. Disengage the joint of the actuator and the lead spring. Pull out the lead spring.



The spring must be under the shaft when you install pick-up.

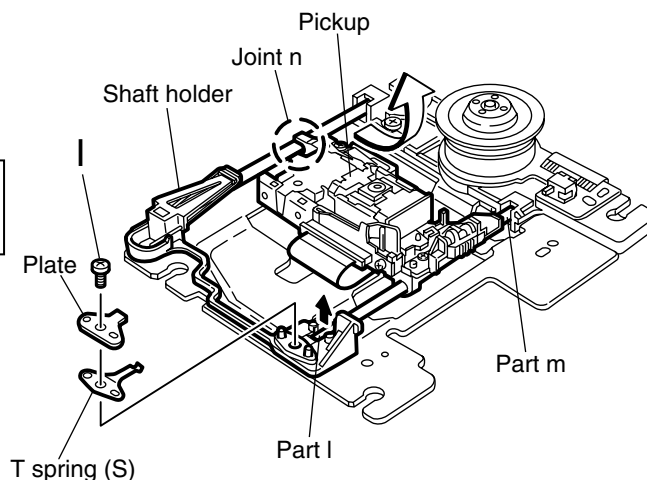


Fig.16

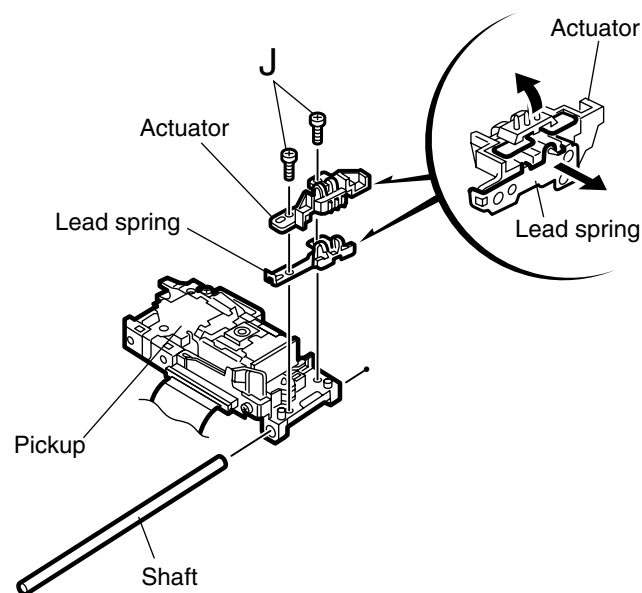


Fig.17

■ Removing the shaft holder / shaft (See Fig.18)

1. Remove the screw **K** attaching the shaft holder.
2. Remove the shaft.

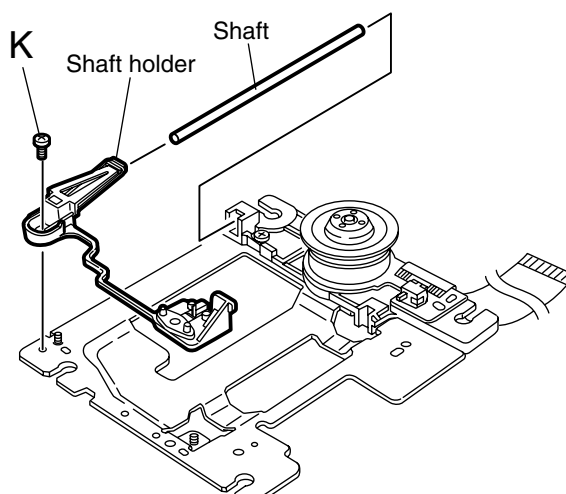


Fig.18

■ Removing the spindle motor assembly (See Fig.19 to 21)

1. Remove the three screws **L** attaching the spindle motor on the bottom of the mechanism base.

ATTENTION: When reattaching, pass the card wire extending from the spindle motor board through the notch of the spindle base.

2. Remove the three screws **M** attaching the spindle base.

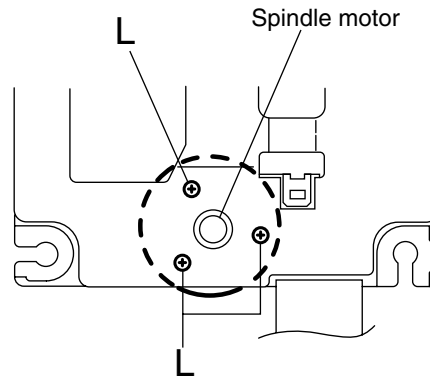


Fig.19

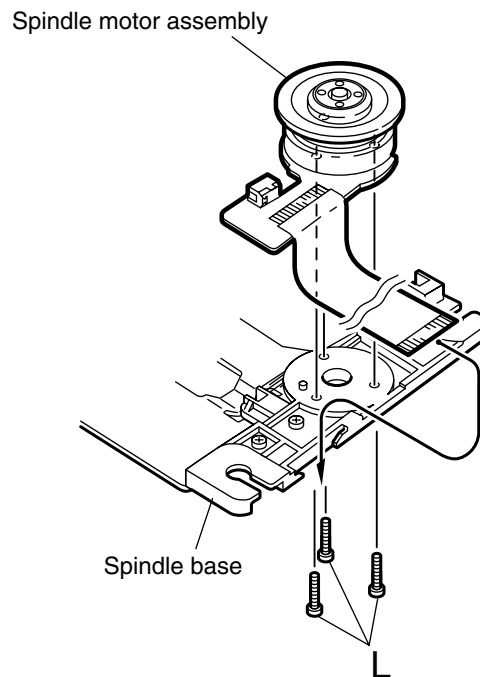


Fig.20

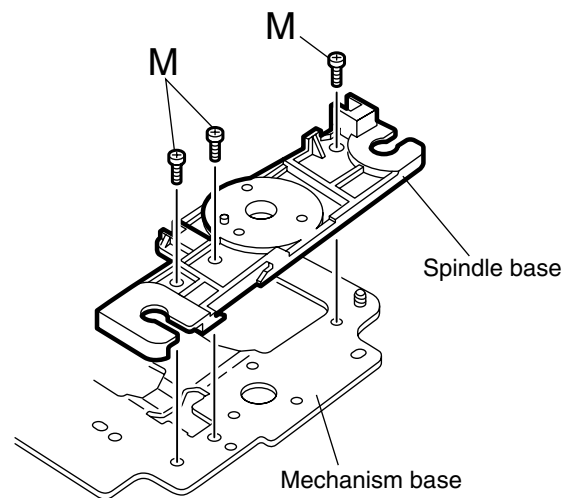


Fig.21

Adjustment method

(1) Initialization method

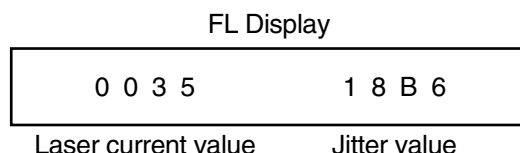
If microprocessor (IC401,IC402,IC451,IC504) or pick-up is replaces, initialize the DVD player in the following matter

- 1)Take out the disc and close the tray.
- 2)Unplug the power plug.
- 3)Insert power plug into outlet while pressing both "PLAY" button and "OPEN/CLOSE" button.
- 4)FL Display indicate "TEST * * ¥ " . * *:Version, ¥ :Region code
- 5)Press "3D-PHONIC" button of remote controller. and EEPROM initialize start.
- 6)When indicate "DTS" on the display, initialize finishes.
- 7)The power is turned OFF, and Unplug the power plug.

(2) Display of "Laser current value" and "Jitter value"

"Laser current value" and "Jitter value" are displayed on the FL display by the undermentioned method. Please refer to the failure diagnosis.

- 1)Take out the disc and close the tray.
- 2)Unplug the power plug.
- 3)Insert power plug into outlet while pressing both "PLAY" button and "OPEN/CLOSE" button.
- 4)FL Display indicate "TEST * * ¥ " . * *:Version, ¥ :Region code
- 5)Press the "OPEN/CLOSE" button to move the tray outward.
Put the test disc (VT-501) on the tray and press "OPEN/CLOSE" button.
The tray should move inward (Note:Don't push to close the tray directly by hand etc.)
- 6)Press the "PLAY" button.
- 7)After a few seconds, The laser current value and the jitter value is displayed on the FL indicator as follows.



* The test mode is canceled when the power is turned off.

■ For Laser current value

The laser current value becomes 35mA for the above-mentioned.

Becomes a test mode by doing above-mentioned procedure 1) - 4). Afterwards, the laser current value can be switched by pushing the button to remote controller without turning on the disk.

Remote control "4" button --- Laser of CD
Remote control "5" button --- Laser of DVD

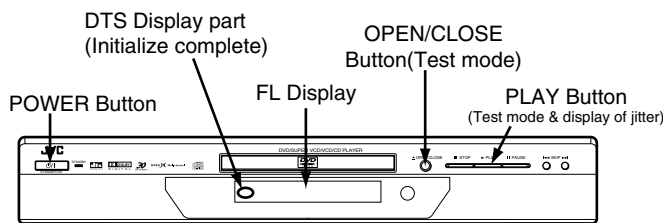
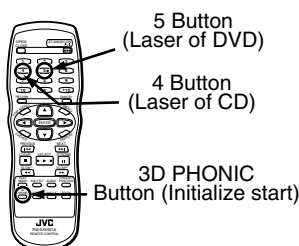
*Returns to a usual test mode by the thing to push the "STOP" button of remote controller.

It can be judged it is simply good if the displayed current value of the laser is smaller than that of the undermentioned value.

Moreover, there must be a deteriorated possibility and the pick-up must exchange the pick-up more than the undermentioned value.

Laser current value of CD ----- 49 mA or less

Laser current value of DVD ----- 64 mA or less



■ For Jitter value

The jitter value is displayed on the FL display referring to the previous page.

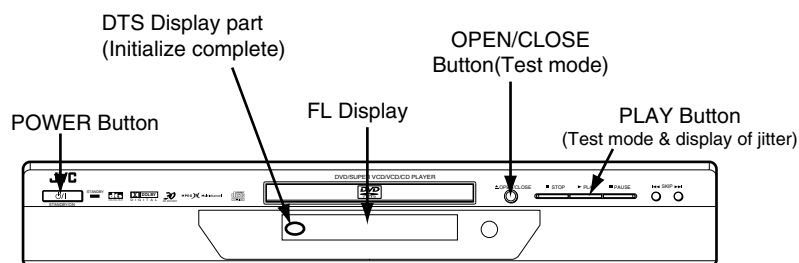
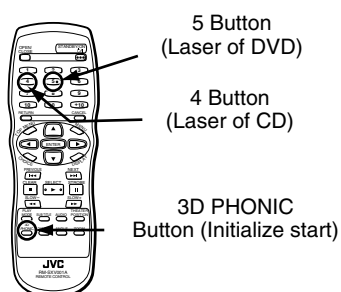
The jitter value is displayed by the hexadecimal number.

In the following cases, please "Flap adjustment of the pick-up guide shaft" referring to the following page.

Before using the TEST disc VT-501, careful check it if there is neither damage nor dirt on the read surface.

< In the following cases, please adjustment >

- * When you exchange the pick-up
- * When you exchange the spindle motor
- * When the reading accuracy of the signal is bad (There is a block noise in the screen etc..)



(3) Flap adjustment of the pick-up guide shaft

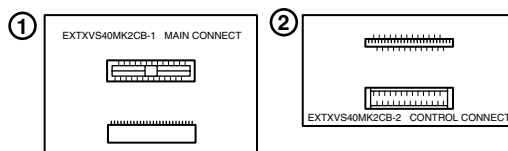
<Tool list for adjustment>

- * Hex wrench for adjustment
Off-the-shelf (1.3mm)
- * Test disc
VT-501 or VT-502
- * Stud (four pieces set)
Parts No. : JIGXVS40 (One is not used though there are four.)

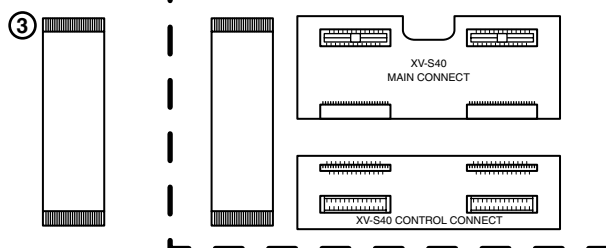


- * Assistance board and extension cord

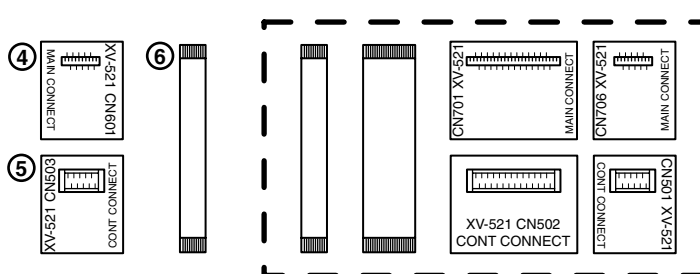
Parts No. : EXTXVS40MK2CB



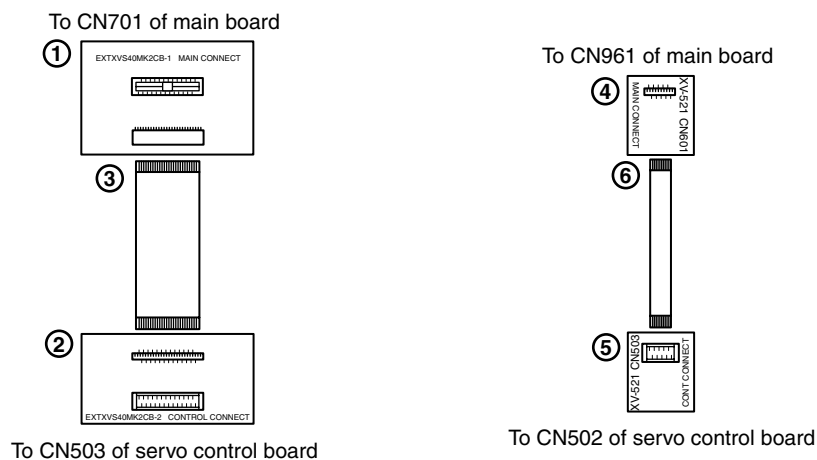
Parts No. : EXTXVS40CB



Parts No. : EXTXV521CB

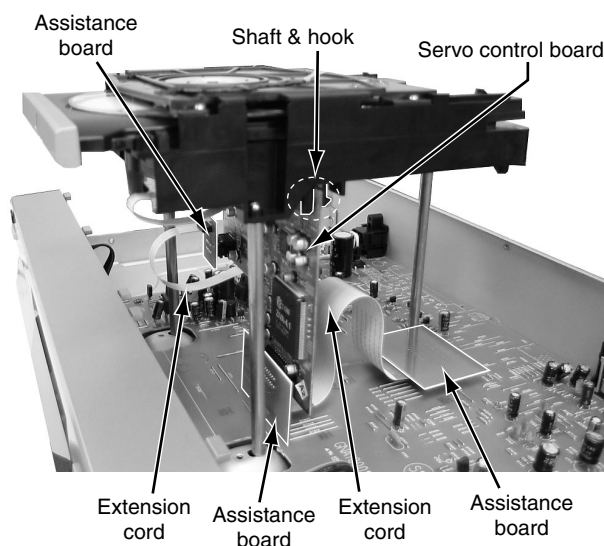
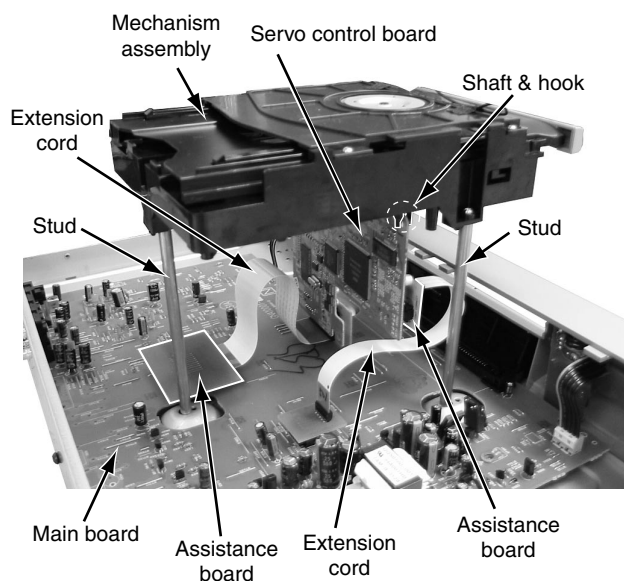


<Connection diagram>



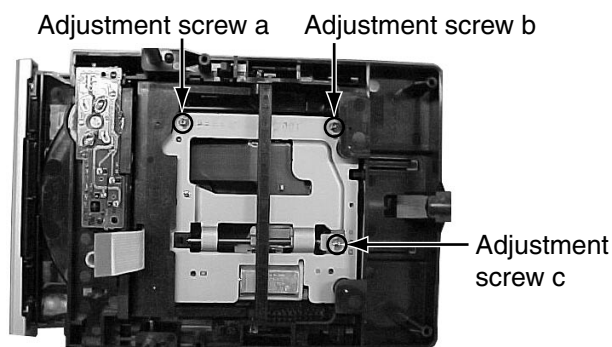
<Adjustment preparation>

- 1.The mechanism assembly is made in the state from the main body from which is detached referring to the disassembly method.
- 2.Three studs are installed in the mechanism assembly respectively.
- 3.The servo control board is removed from the mechanism assembly, and puts into the state set up as shown in figure. (Each wire connected by the servo control board this time leaves the connection maintained.)
Between shaft and hook of mechanism assembly of figure Board is put.
- 4.The extension cord is inserted in the connector of the assistance board respectively.
The main board is connected with the servo control board as shown in figure.



<Adjustment>

- 1.Puts into the state to display the jitter value on the FL display referring to "Display of the jitter value".
- 2.The adjustment screw under the traverse mechanism is turned with hex wrench, and matches so that the jitter value displayed on the FL display may become "**maximum**" value.



<POINT>

- 1.Turns in the forward or the opposite direction, and makes to the position where the jitter value is good the half rotation of adjustment screw a and b(180 degrees) respectively.
- 2.Afterwards, adjustment screw b and c are turned in the same way, and makes to the best position.

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).

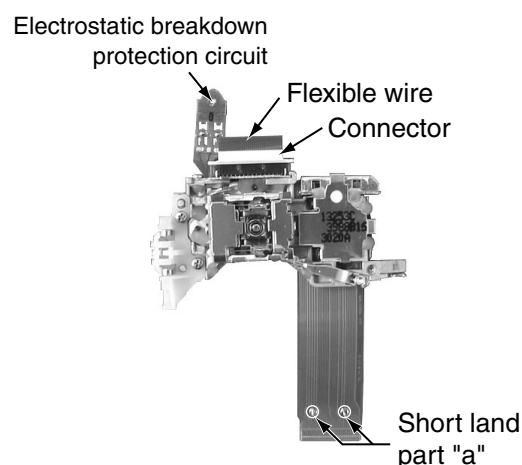
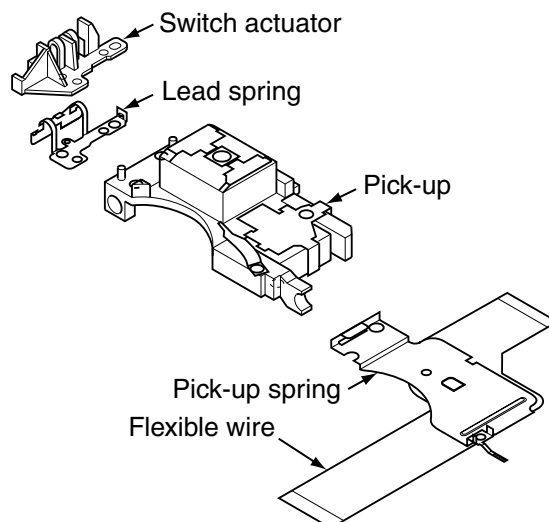
3. A flexible wire is inserted in the connector which has taken side with the pick-up, and solder is put up to short land part "a" two places on a flexible wire.

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.

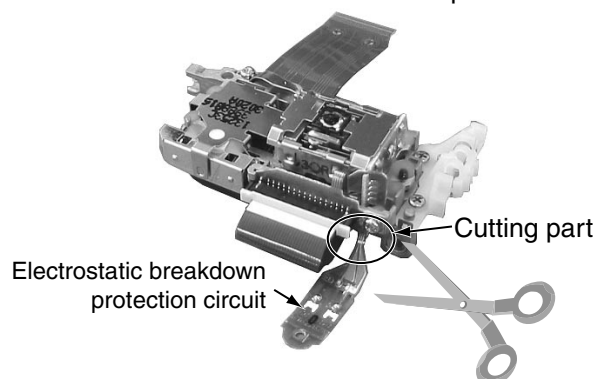
The procedure might be mistaken and if solder has not surely adhered to two places on a flexible wire short land part "a", the laser diode in the pick-up be destroyed again.



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.

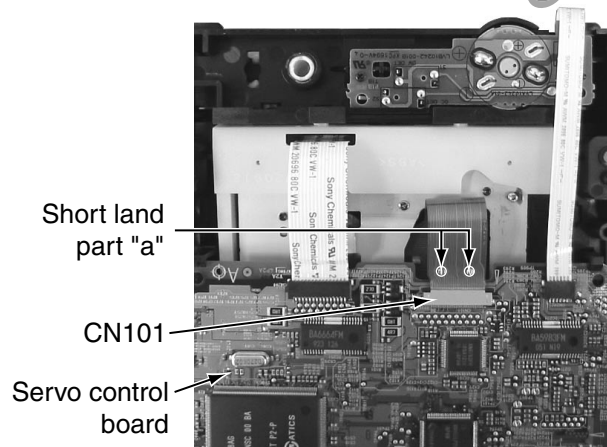
7. Solder in two places on a flexible wire in part "a" is removed.



< ATTENTION >

Please remove solder in two places in part "a" after connecting a flexible wire with connector CN101 on the servo control 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.



Confirm method of operation

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

☐ **The EEPROM is initialized.**

Refer to the initialization method.

☐ **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**

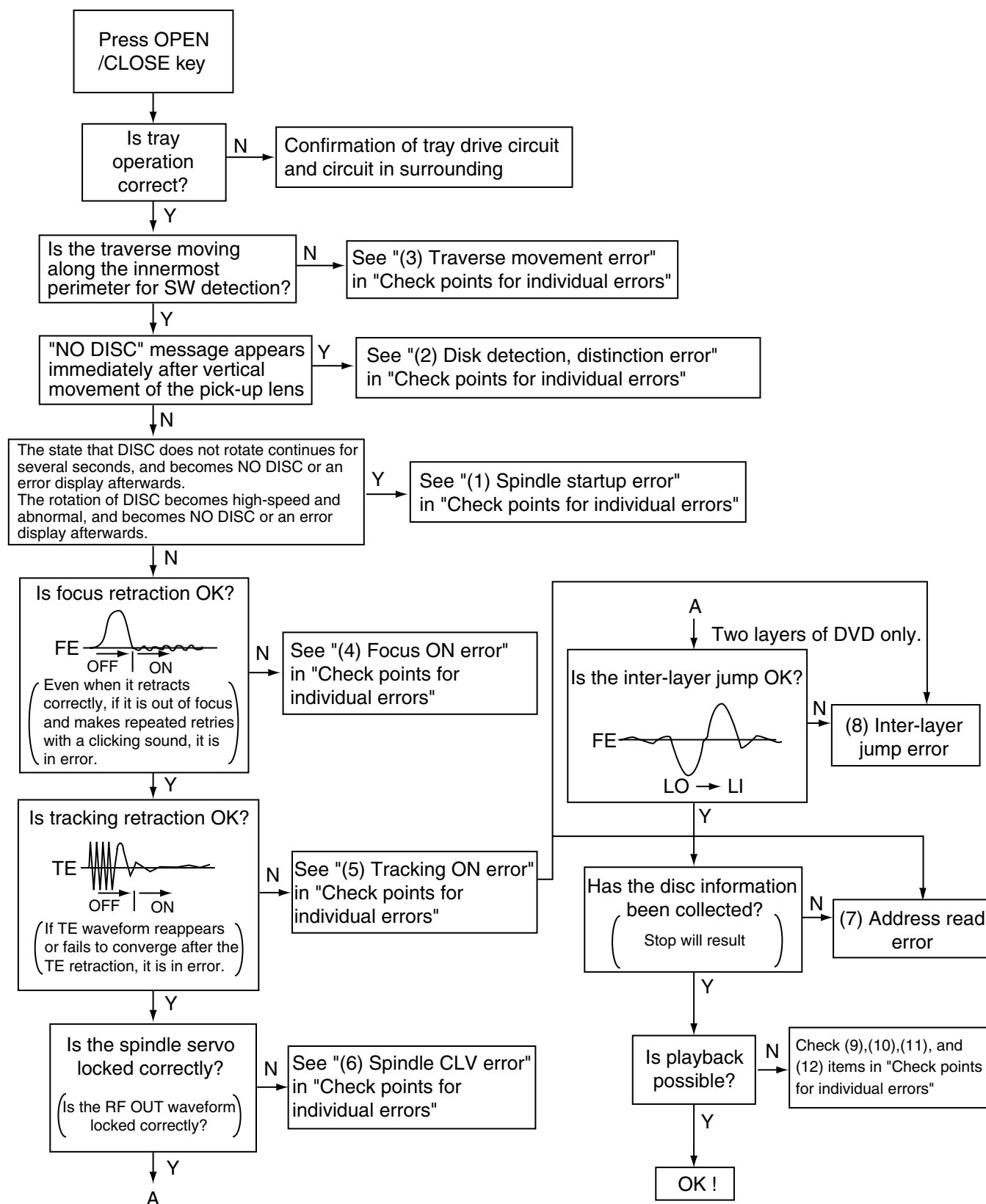
Do not find abnormality etc. of tone quality and the picture quality.

☐ **Most outside TITLE playback check**

Play VT-501 TITLE 59 CHAPTER 1 , check normal playback.

Troubleshooting

Servo volume



Check points for each error

(1) Spindle start error

1. Defective spindle motor

*Are there several ohms resistance between each pin of CN201 "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?
[CN201"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 CN201"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?

(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 "20" (ASOUT) and
IC101 "41"(RFENV) and IC101 "22" (FEOUT)?

(3) Traverse movement NG

1. Defective traverse driver

* Has the voltage come between terminal of CN101 "1" and "2" ?

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? (IC401 "46")

(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.

(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.

(6) Spindle CLV NG

* IC101 -- "35" (RF OUT), "30" (ARF-), "31" (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.

(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, IC401.

The disc is dirty or the wound has adhered.

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

Mechanism defective

Defect of driver's IC (IC201)

Defect of servo control IC (IC301)

(9) Neither picture nor sound is output

1. It is not possible to 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?

(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?

(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.

(12) CD During normal playback operation

a) Is TOC reading normal?

Displays total time for CD-DA.

Shifts to double-speed mode for V-CD.

↓ YES

b) Playback possible?

→ NO

*--:-- 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.

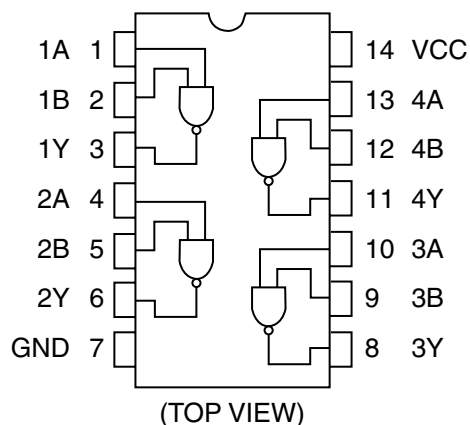
*The passage of time is not stable, or picture is abnormal.(V-CD)

*The wound of the disc and dirt are confirmed.

Description of major ICs

■ 74VHC00MTC-X (IC455,IC503) : 2-input nand gate

1.Pin layout



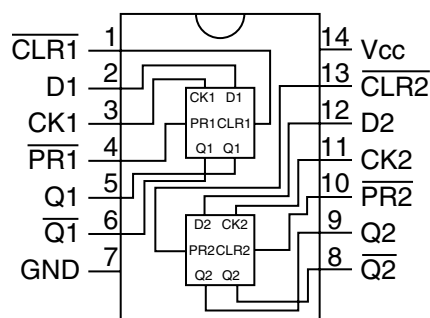
2.Truth table

A	B	Y
L	L	H
L	H	H
H	L	H
H	H	L

L : High impedance

■ 74VHC74MTC-X (IC454) : ZIVA Wait

1.Terminal layout



2.Truth table

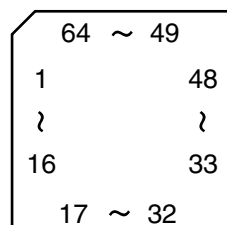
Input				Output		Function
CLR	PR	D	CK	Q	$\overline{Q}$	
L	H	X	X	L	H	Clear Preset
H	L	X	X	H	L	
L	L	X	X	H(Note 1)	H(Note 1)	
H	H	L	—	L	H	
H	H	H	—	H	L	No change
H	H	X	—	Qn	Qn	

3.Pin function

Pin No.	Symbol	I/O	Description	Pin No.	Symbol	I/O	Description
1	CLR1	I	Direct clear input 1	8	Q2	O	Output
2	D1	I	Data input 1	9	Q2	O	Output
3	CK1	I	Clock pulse input 1	10	PR2	I	Direct preset input 2
4	PR1	I	Direct preset input 1	11	CK2	I	Click pulse input 2
5	Q1	O	Output	12	D2	I	Data input 2
6	Q1	O	Output	13	CLR2	I	Clock clear input 2
7	GND	-	Connect to ground	14	VCC	-	Power supply

■ AN8703FH-V (IC101) : Frontend processor

1.Pin layout

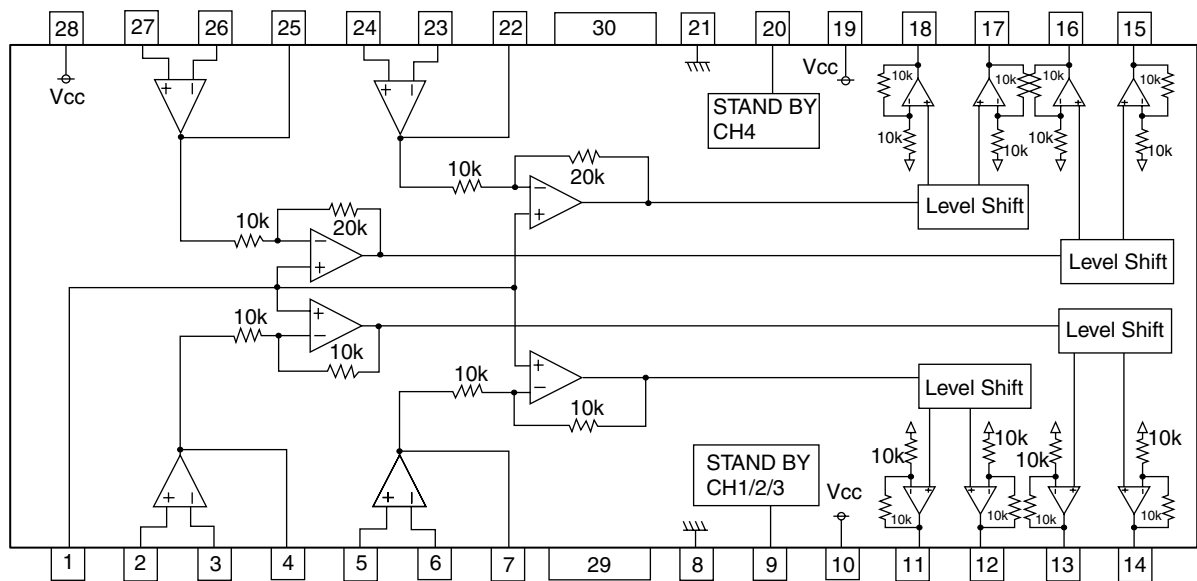


2.Pin function

Pin No.	Symbol	I/O	Description	Pin No.	Symbol	I/O	Description
1	LPC1	I	Laser input terminal (DVD)	34	RFDIFO	-	Non connect
2	LPC01	O	Laser drive signal output terminal (DVD)	35	RFOUT	-	Connect to TP103
3	LPC2	I	Laser input terminal (CD)	36	VCC3	-	Power supply terminal 3.3V
4	LPC02	O	Laser drive signal output terminal (CD)	37	RFC	O	Filter for RF delay correction AMP.
5	VFOSHORT	I	VFOSHORT control terminal	38	DCRF	O	All addition amplifier capacitor terminal
6	TBAL	I	Tracking balance control terminal	39	OFTR	O	OFTR output terminal
7	FBAL	I	Focus balance control terminal	40	BDO	O	BDO output terminal
8	POFLT	O	Track detection threshold level terminal	41	RFENV	O	RF envelope output terminal
9	DTRD	I	Data slice part data read signal input terminal (For RAM)	42	BOTTOM	O	Bottom envelope detection filter terminal
10	IDGT	I	Data slice part address part gate signal input terminal(For RAM)	43	PEAK	O	Peak envelope detection filter terminal
11	STANDBY	I	Standby mode control terminal	44	AGCG	O	AGC amplifier gain control terminal
12	SEN	I	SEN(Serial data input terminal)	45	AGCO	O	AGC amplifier level control terminal
13	SCK	I	SCK(Serial data input terminal)	46	TESTSG	I	TEST signal input terminal
14	STDI	I	STDI(Serial data input terminal)	47	RFINP	I	RF signal positive input terminal
15	RSCL	I	Standard electric current terminal	48	RFINN	I	RF signal negative input terminal
16	JLINE	I	Electric current setting terminal of JLine	49	VIN5	I	Internal four-partition (CD) RF input 1
17	TEN	I	Reversing input terminal of tracking error output AMP.	50	VIN6	I	Internal four-partition (CD) RF input 2
18	TEOUT	O	Tracking error signal output terminal	51	VIN7	-	Internal four-partition (CD) RF input 3
19	AGCBAL	I	Offset adjusting terminal 1	52	VIN8	-	Internal four-partition (CD) RF input 4
20	ASOUT	O	Full adder signal output terminal	53	VIN9	I	External two-partition (DVD) RF input 2
21	FEN	I	Focus error output amplifier reversing input terminal	54	VIN10	I	External two-partition (DVD) RF input 1
22	FEOUT	O	Focus error signal output terminal	55	VCC1	-	Power supply terminal 5V
23	AGCOFST	I	Offset adjusting terminal 2	56	VREF1	O	VREF1 voltage output terminal
24	MON	-	Non connect	57	VIN1	I	Internal four-partition (DVD) RF input 1
25	AGCLVL	O	Output amplitude adjustment for DRC	58	VIN2	I	Internal four-partition (DVD) RF input 2
26	GND2	-	Connect to GND	59	VIN3	I	Internal four-partition (DVD) RF input 3
27	VREF2	O	VREF2 voltage output terminal	60	VIN4	I	Internal four-partition (DVD) RF input 4
28	VCC2	-	Power supply terminal 5V	61	GND1	-	Connect to GND
29	VHALF	O	VHALF voltage output terminal	62	VIN11	I	3 beam sub input terminal 2 (CD)
30	DFTON	O	Reversing output terminal of filter AMP.	63	VIN12	I	3 beam sub input terminal 1 (CD)
31	DFTOP	O	Filter AMP. output terminal	64	HDTYPE	O	HD Type selection
32	DCFLT	I	Capacity connection terminal for filter output				
33	GND3	-	Connect to GND				

BA5983FM-X (IC201) : 4CH Driver

1.Block diagram



2.Pin function

Pin No.	Symbol	I/O	Description	Pin No.	Symbol	I/O	Description
1	BIAS IN	I	Input for Bias-amplifier	16	VO4(-)	O	Inverted output of CH4
2	OPIN1(+)	I	Non inverting input for CH1 OP-AMP	17	VO3(+)	O	Non inverted output of CH3
3	OPIN1(-)	I	Inverting input for CH1 OP-AMP	18	VO3(-)	O	Inverted output of CH3
4	OPOUT1	O	Output for CH1 OP-AMP	19	PowVcc2	-	Vcc for CH3/4 power block
5	OPIN2(+)	I	Non inverting input for CH2 OP-AMP	20	STBY2	I	Input for Ch4 stand by control
6	OPIN2(-)	I	Inverting input for CH2 OP-AMP	21	GND	-	Substrate ground
7	OPOUT2	O	Output for CH2 OP-AMP	22	OPOUT3	O	Output for CH3 OP-AMP
8	GND	-	Substrate ground	23	OPIN3(-)	I	Inverting input for CH3 OP-AMP
9	STBY1	I	Input for CH1/2/3 stand by control	24	OPIN3(+)	I	Non inverting input for CH3 OP-AMP
10	PowVcc1	-	Vcc for CH1/2 power block	25	OPOUT4	O	Output for CH4 OP-AMP
11	VO2(-)	O	Inverted output of CH2	26	OPIN4(-)	I	Inverting input for CH4 OP-AMP
12	VO2(+)	O	Non inverted output of CH2	27	OPIN4(+)	I	Non inverting input for CH4 OP-AMP
13	VO1(-)	O	Inverted output of CH1	28	PreVcc	-	Vcc for pre block
14	VO1(+)	O	Non inverted output of CH1	29		-	Connect to ground
15	VO4(+)	O	Non inverted output of CH4	30		-	Connect to ground

CY24203SC-X (IC571) : MPEG / Audio clock generator with VCXO

1.Pin layout

XIN	1	8	XOUT
VDD	2	7	27M
VCXO	3	6	13.5M
VSS	4	5	16.9344M

2.Pin function

Pin No.	Symbol	Description
1	XIN	Reference crystal input
2	VDD	Power supply
3	VCXO	Input analog control for VCXO
4	VSS	Connect to ground
5	16.9344M	16.9344 MHz clock output
6	13.5	13.5 MHz clock output
7	27M	27 MHz clock output
8	XOUT	Reference crystal output

■ BA6664FM-X(IC251):Spindle motor driver

1.Pin layout

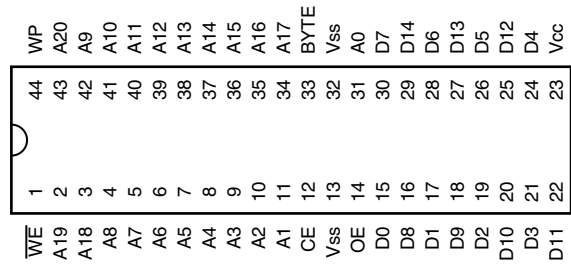
NC	1	28	RNF
A3	2	27	VM
NC	3	26	GSW
A2	4	25	VCC
NC	5	24	FG
NC	6	23	PS
A1	7	22	EC
	29	30	
GND	8	21	ECR
H1+	9	20	FR
H1-	10	19	FG2
H2+	11	18	SB
H2-	12	17	CNF
H3+	13	16	BR
H3-	14	15	VH

2.Pin function

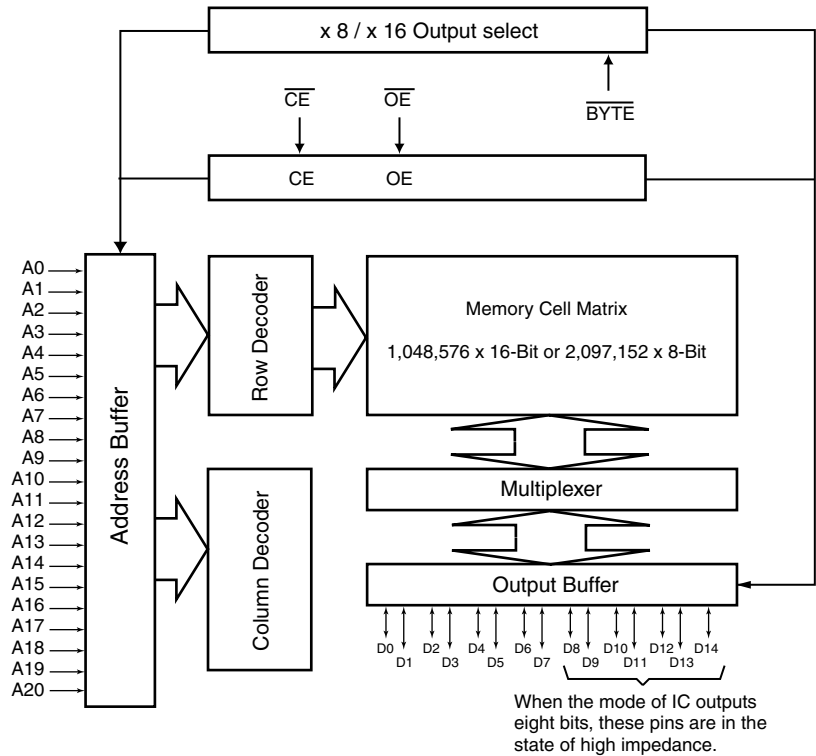
Pin No.	Symbol	I/O	Description
1	NC	-	Non connect
2	A3	O	Output 3 for spindle motor
3	NC	-	Non connect
4	A2	O	Output 2 for spindle motor
5	NC	-	Non connect
6	NC	-	Non connect
7	A1	O	Output 1 for spindle motor
8	GND	-	Connect to ground
9	H1+	I	Positive input for hall input AMP 1
10	H1-	I	Negative input for hall input AMP 2
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	O	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

■ K3N5V1000F-J004 (IC402) :EPROM

1.Pin layout



2.Block diagram

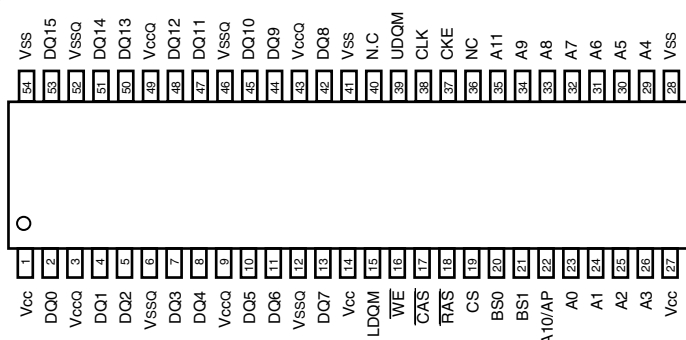


3.Pin functions

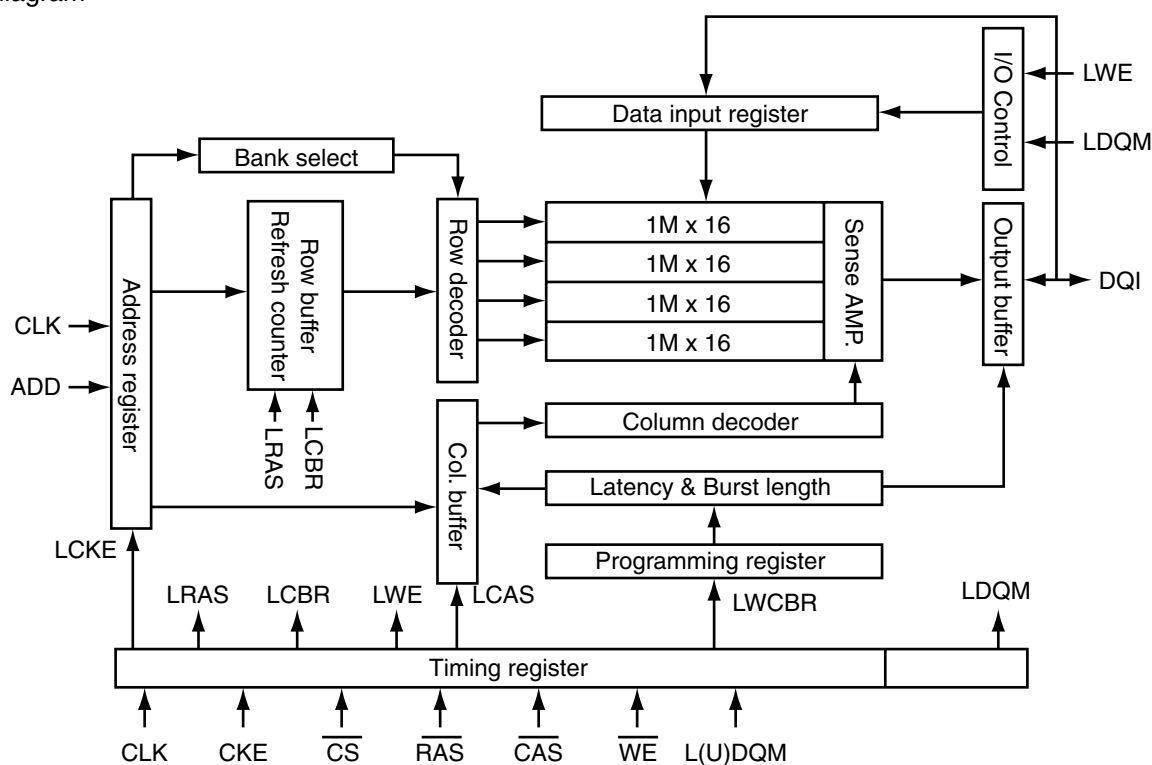
Symbol	Function
A0 - A20	Address Input
D0 - D14	Data Output
CE	Chip Enable
OE	Output Enable
BYTE	Mode Switch
Vcc	Power Supply
Vss	GND
WE	Write enable
WP	Connect to ground

K4S641632F-TC75 (IC504) :CMOS SDRAM

1.Pin layout



2.Block diagram



3.Pin functions

Symbol	Description
CLK	System clock
$\overline{CS}$	Chip select
CKE	Clock enable
A0~A11	address
BS0,1	Bank address strobe
$\overline{RAS}$	Row address strobe
$\overline{CAS}$	column address strobe
$\overline{WE}$	Write enable
LDQM	Data input/output mask
DQ0~15	Data input/output
Vcc/Vss	Power supply/ground
Vccq/Vssq	Data output power/ground
N.C	Non connect

■ MN101C35DLD (IC701) : System controller

Pin function

Pin No.	Symbol	I/O	Description
1	DDATA	O	DAC control data
2	DACOCS	O	DAC control chip select
3	DCLK	O	DAC control clock
4	MUTE1	O	Muting signal to IC601
5	VIDEO SW	I	Component / S-Video switch input
6,7	MODE 1,2	O	Output mode switch
8	VDD	-	Power supply +B 5V
9	OSC2	O	Oscillation terminal 8MHz
10	OSC1	I	Oscillation terminal 8MHz
11	VSS	-	Connect to ground
12	XI	-	Unused, Connect with ground
13	XO	-	Non connect
14	MMOD	-	Connect to ground
15	VREF-	-	Connect to ground
16	POWER SW	I	Key input (power)
17	NTSEL	I	NTSC/PAL switch input
18	RGB/YC SW	I	RGB/YC Switch input
19	S/COMPO	I	S/COMPONENT Switch input
20	AIN0	I	Key input (S831~S835)
21	AIN1	I	Key input (S821:open/close)
22,23	TEST0,1	-	Not used
24	VREF+	-	Power supply +B 5V
25	RGBSEL	O	RGB select control (H:RGB L:other)
26	RESET	I	Reset input
27	AVCO	O	AV COMPULINK output
28	AVCI	I	AV COMPULINK input
29	POWERON	O	Power ON output
30	TCLOSE	O	Tray close control output
31	TOPEN	O	Tray open control output
32	/LMMUTE	O	Tray muting output (L:muting)
33	SWOPEN	I	Detection switch of tray open/close (L:open/close)
34	SWUPDN	I	Detection switch of traverse mechanism up/down (H:UP L:DOWN)
35	REMO	I	Remote control interruption
36	NC	-	Non connect
37	REQ	I	Communication between unit microcomputers request
38	NC	-	Non connect
39	S2UDT	O	Communication between unit microcomputers DATA output
40	U2SDT	I	Communication between unit microcomputers DATA input
41	SCLK	O	Communication between unit microcomputers CLK
42	BUSY	O	Communication between unit microcomputers BUSY
43	CPURST	O	Unit microcomputers reset
44	NC	-	Non connect (Connect to ground)
45	VS3	O	S3 control (Function identification)
46	VS1	O	S1 control (Function identification)
47	MUTE	O	Muting output
48	STANDBYIND	O	LED control signal output (D801:standby)
49~51	NC	-	Non connect
52~64	13G~1G	O	FL grid control signal output
65~88	S24~S1	O	FL segment control signal output
89~99	NC	-	Non connect
100	VPP	-	-VDISP (apply -35V)

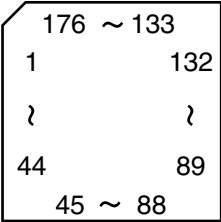
■ MN102L62GLH1 (IC401) : Unit CPU

Pin function

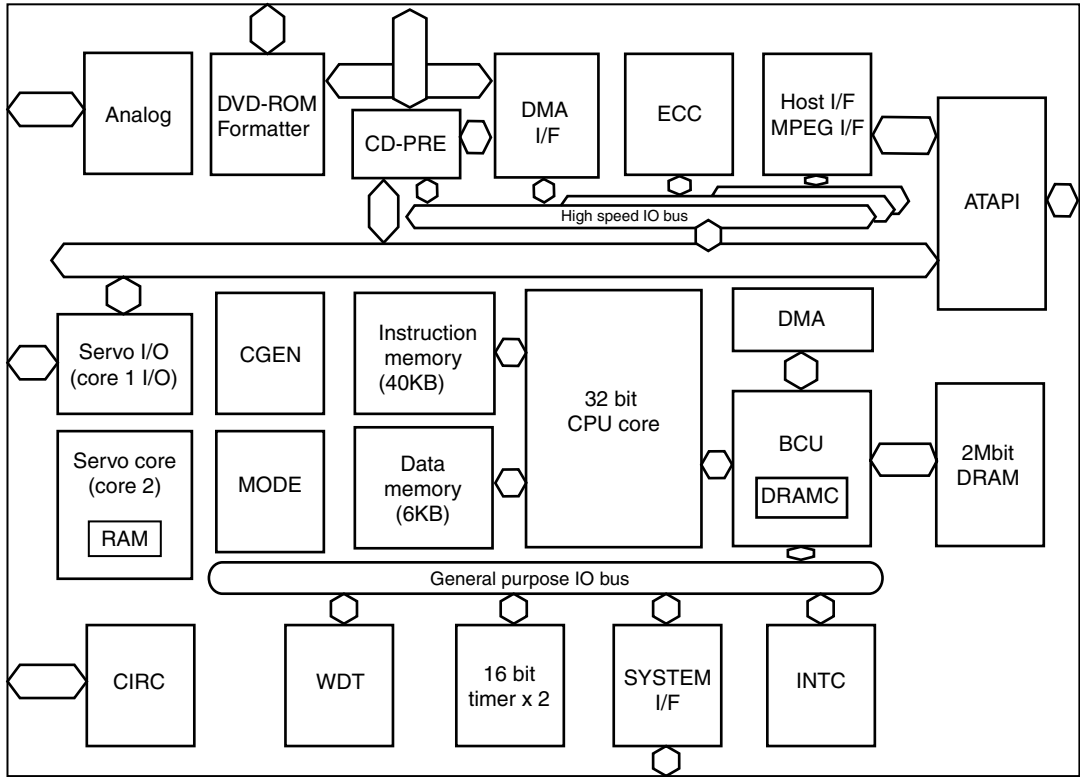
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	WAIT	I	Micon wait signal input	51	-	-	Connect to TP406
2	RE	O	Read enable	52	-	-	Connect to TP405
3	SPMUTE	O	Spindle muting output to IC251	53	P85/TM5IO	-	Connect to TP404
4	WEN	O	Write enable	54	VDD	-	Power supply
5	HDDTYPE	O	HD Type selection	55	-	-	Connect to TP403
6	CS1	O	Chip select for ODC	56	FEPEN	O	Serial enable signal for FEP
7	CS2	O	Chip select for ZIVA	57	SLEEP	O	Standby signal for FEP
8	CS3	O	Chip select for outer ROM	58	-	-	Connect to TP402
9	DRVmute	O	Driver mute	59	BUSY	I	Communication busy
10	SBRK	O	Short brake terminal	60	REQ	O	Communication request
11	LSIRST	O	LSI reset	61	VSS	-	Ground
12	WORD	I	Bus selection input	62	EPCS	O	EEPROM chip select
13	A0	O	Address bus 0 for CPU	63	EPSK	O	EEPROM clock
14	A1	O	Address bus 1 for CPU	64	EPDI	I	EEPROM data input
15	A2	O	Address bus 2 for CPU	65	EPDO	O	EEPROM data output
16	A3	O	Address bus 3 for CPU	66	VDD	-	Power supply
17	VDD	-	Power supply	67	SCLKO	O	Communication clock
18	SYSCLK	-	Non connect	68	S2UDT	I	Communication input data
19	VSS	-	Ground	69	U2SDT	O	Communication output data
20	XI	-	Not use (Connect to vss)	70	CPSCK	O	Clock for ADSC serial
21	XO	-	Non connect	71	P74/SBI1	I	Not use (Pull down)
22	VDD	-	Power supply	72	SDOUT	O	ADSC serial data output
23	OSCI	I	Clock signal input(13.5MHz)	73	-	I	Not use (Pull up)
24	OSCO	O	Clock signal output(13.5MHz)	74	-	I	Not use (Pull up)
25	MODE	I	CPU Mode selection input	75	NMI	I	NMI Terminal
26	A4	O	Address bus 4 for CPU	76	ADSCIRQ	I	Interrupt input of ADSC
27	A5	O	Address bus 5 for CPU	77	ODCIRQ	I	Interrupt input of ODC
28	A6	O	Address bus 6 for CPU	78	DECIRQ	I	Interrupt input of ZIVA
29	A7	O	Address bus 7 for CPU	79	CSSIRQ	I	Not use (Pull down)
30	A8	O	Address bus 8 for CPU	80	ODCIRQ2	I	Interruption of system control
31	A9	O	Address bus 9 for CPU	81	ADSEP	I	Address data selection input
32	A10	O	Address bus 10 for CPU	82	RST	I	Reset input
33	A11	O	Address bus 11 for CPU	83	VDD	-	Power supply
34	VDD	-	Power supply	84	TEST1	I	Test signal 1 input
35	A12	O	Address bus 12 for CPU	85	TEST2	I	Test signal 2 input
36	A13	O	Address bus 13 for CPU	86	TEST3	I	Test signal 3 input
37	A14	O	Address bus 14 for CPU	87	TEST4	I	Test signal 4 input
38	A15	O	Address bus 15 for CPU	88	TEST5	I	Test signal 5 input
39	A16	O	Address bus 16 for CPU	89	TEST6	I	Test signal 6 input
40	A17	O	Address bus 17 for CPU	90	TEST7	I	Test signal 7 input
41	A18	O	Address bus 18 for CPU	91	TEST8	I	Test signal 8 input
42	A19	O	Address bus 19 for CPU	92	VSS	-	Ground
43	VSS	-	Ground	93	D0	I/O	Data bus 0 of CPU
44	A20	O	Address bus 20 for CPU	94	D1	I/O	Data bus 1 of CPU
45	TXSEL	O	TX Select	95	D2	I/O	Data bus 2 of CPU
46	TRVSW	I	Detection switch of traverse inside	96	D3	I/O	Data bus 3 of CPU
				97	D4	I/O	Data bus 4 of CPU
47	HUGUP	-	Connect to TP408	98	D5	I/O	Data bus 5 of CPU
48	HFMON	O	HFM Control output to Q103	99	D6	I/O	Data bus 6 of CPU
49	HAGUP	O	Connect to pick-up	100	D7	I/O	Data bus 7 of CPU
50	-	-	Connect to TP407				

■ MN103S28EGA (IC301) : Super optical disc controller

1.Terminal layout



2.Block diagram



3.Pin function (1/4)

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)
34	NCS	I	System control chip select
35	NWR	I	Writing system control

3.Pin function (MN103S28EGA : 2/4)

Pin No.	Symbol	I/O	Description
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
53~56	PWM1~4	-	Non connect
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
61~64	PWM5~8	-	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	TILT_N	-	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	OSC11	I	Oscillation input 16.9MHz
80	OSC01	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	AVSSD	-	Connect to ground for analog circuit
86	ROUT	-	Non connect
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	FPFIN	I	HPF input
97	CSLFLT	I	Pull-up to VHALF
98	RFDIF	-	Non connect
99	AVDDC	-	Power supply terminal for analog circuit (3.3V)
100	PLFLT2	I	Connect to capacitor 2 for PLL

3.Pin function (MN103S28EGA : 3/4)

Pin No.	Symbol	I/O	Description
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
134	NCS3FX	I	ATAPI host chip select
135	NCS1FX	I	ATAPI host chip select
136,137	DA2	I/O	ATAPI host address 2,0
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

3.Pin function (MN103S28EGA : 4/4)

Pin No.	Symbol	I/O	Description
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

■ S-93C66AFJ-X (IC451) : EEPROM

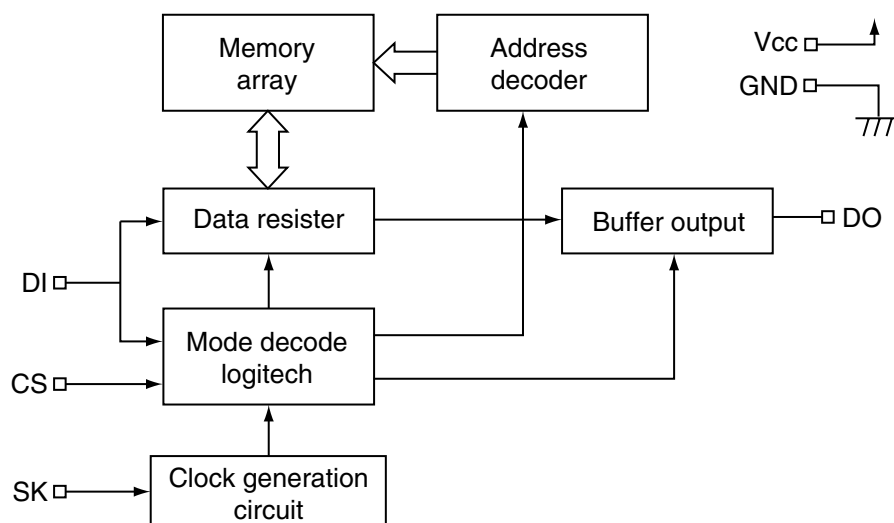
1.Pin layout

PE	1	8	NC
VCC	2	7	GND
CS	3	6	DO
SK	4	5	DI

2.Pin function

Pin No.	Symbol	I/O	Description
1	PE	-	Non connect
2	VCC	-	Power supply terminal
3	CS	I	Chip select input
4	SK	I	Serial clock input
5	DI	I	Serial data input
6	DO	O	Serial data output
7	GND	-	Connect to ground
8	NC	-	Non connect

1.Block diagram



■ MN35505-X (IC703) : DAC

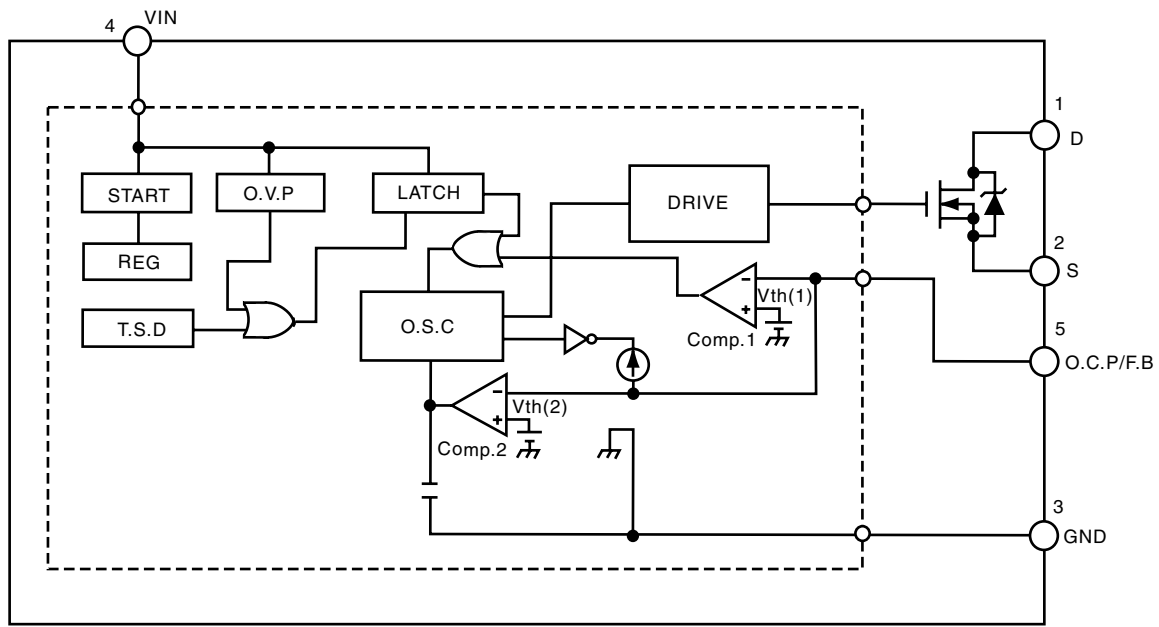
1. Terminal layout

M5	1	28	M6
DIN	2	27	M4
LRCK	3	26	M8
BCK	4	25	M7
M3	5	24	DVDD1
DVDD2	6	23	VCOF
CKO	7	22	XIN
DVSS2	8	21	XOUT
M2	9	20	DVSS1
M1	10	19	M9
OUT1C	11	18	OUT2C
AVDD1	12	17	AVDD2
OUT1D	13	16	OUT2D
AVSS1	14	15	AVSS2

2. Pin function

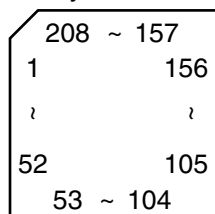
Pin No.	Symbol	I/O	Description
1	M5	I	Control signal for DAC
2	DIN	I	Digital data input
3	LRCK	I	L and R clock for DAC
4	BCK	I	Bit clock for DAC
5	M3	I	Control signal for DAC
6	DVDD2	-	Power supply terminal
7	CKO	-	Non connect
8	DVSS2	-	Connect to ground
9	M2	I	Control signal for DAC
10	M1	I	Control signal for DAC
11	OUT1C	O	Analog output 1
12	AVDD1	-	Power supply terminal
13	OUT1D	O	Analog output 1
14	AVSS1	-	Connect to ground
15	AVSS2	-	Connect to ground
16	OUT2D	O	Analog output 2
17	AVDD2	-	Power supply terminal
18	OUT2C	O	Analog output 2
19	M9	I	Control signal for DAC
20	DVSS1	-	Connect to ground
21	XOUT	-	Non connect
22	XIN	-	Non connect
23	VCOF	I	VCO Frequency
24	DVDD1	-	Power supply D+5V
25	M7	-	Connect to ground
26	M8	-	Connect to ground
27	M4	I	Control signal for DAC
28	M6	I	Clock for control signal

■ STR-G6551-F8 (IC901) : Switch regulator



■ ZIVA-4.1-PB0 (IC501) : Back end - Digital decoder

1. Terminal layout



2. Pin function (1/5)

Pin No.	Symbol	I/O	Description
1	$\overline{RD}$	I	Read strobe input
2	$\overline{R/W}$	I	Read/write strobe input
3	$VDD_{3.3}$	-	Power supply terminal 3.3V
4	$\overline{WAIT}$	O	Transfer not complete / data acknowledge. Active LOW to indicate host initiated transfer is complete.
5	$\overline{RESET}$	I	Active LOW : reset signal input
6	VSS	-	Connect to ground
7	$VDD_{3.3}$	-	Power supply terminal 3.3V
8	$\overline{INT}$	O	Host interrupt signal output
9	NC	-	Non connect
10	NC	-	Non connect
11	NC	-	Non connect
12	NC	-	Non connect
13	$VDD_{2.5}$	-	Power supply terminal 2.5V
14	VSS	-	Connect to ground
15	NC	-	Non connect
16	NC	-	Non connect
17	NC	-	Non connect
18	NC	-	Non connect
19	VSS	-	Connect to ground
20	$VDD_{3.3}$	-	Power supply 3.3V
21	VDATA0	O	Video data bus output. Byte serial CbYCrY data synchronous with VCLK.
22	VDATA1	O	Video data bus output. Byte serial CbYCrY data synchronous with VCLK.
23	VDATA2	O	Video data bus output. Byte serial CbYCrY data synchronous with VCLK.
24	VDATA3	O	Video data bus output. Byte serial CbYCrY data synchronous with VCLK.
25	VDATA4	O	Video data bus output. Byte serial CbYCrY data synchronous with VCLK.
26	VDATA5	O	Video data bus output. Byte serial CbYCrY data synchronous with VCLK.
27	VDATA6	O	Video data bus output. Byte serial CbYCrY data synchronous with VCLK.
28	VDATA7	O	Video data bus output. Byte serial CbYCrY data synchronous with VCLK.
29	$\overline{VSYNC}$	I/O	Vertical sync. Bi-directional, the decoder output the top border of a new field on the first HSYNC after the falling edge of VSYNC.
30	$\overline{HSYNC}$	I/O	Horizontal sync. The decoder begins outputting pixel data for a new horizontal line after the falling (active) edge of HSYNC.
31	VSS	-	Connect to ground
32	$VDD_{3.3}$	-	Power supply terminal 3.3V
33	NC	-	Non connect
34	NC	-	Non connect
35	NC	-	Non connect
36	$VDD_{2.5}$	-	Power supply terminal 2.5V

2.Pin function (ZIVA-4.1-PB0 : 2/5)

Pin No.	Symbol	I/O	Description
37	VSS	-	Connect to ground
38	NC	-	Non connect
39	NC	-	Non connect
40	NC	-	Non connect
41	NC	-	Non connect
42	NC	-	Non connect
43	PIO0	I/O	Programmable I/O terminal
44	VSS	-	Connect to ground
45	VDD_3.3	-	Power supply terminal 3.3V
46	PIO1	I/O	Programmable I/O terminal
47	PIO2	I/O	Programmable I/O terminal
48	PIO3	I/O	Programmable I/O terminal
49	PIO4	I/O	Programmable I/O terminal
50	PIO5	I/O	Programmable I/O terminal
51	PIO6	I/O	Programmable I/O terminal
52	PIO7	I/O	Programmable I/O terminal
53	MDATA0	I/O	SDRAM data
54	MDATA1	I/O	SDRAM data
55	VDD_3.3	-	Power supply terminal 3.3V
56	VSS	-	Connect to ground
57	MDATA2	I/O	SDRAM data
58	MDATA3	I/O	SDRAM data
59	MDATA4	I/O	SDRAM data
60	MDATA5	I/O	SDRAM data
61	MDATA6	I/O	SDRAM data
62	MDATA7	I/O	SDRAM data
63	MDATA15	I/O	SDRAM data
64	VDD_3.3	-	Power supply terminal 3.3V
65	VSS	-	Connect to ground
66	MDATA14	I/O	SDRAM data
67	VDD_2.5	-	Power supply terminal 2.5
68	VSS	-	Connect to ground
69	MDATA13	I/O	SDRAM data
70	MDATA12	I/O	SDRAM data
71	MDATA11	I/O	SDRAM data
72	MDATA10	I/O	SDRAM data
73	MDATA9	I/O	SDRAM data
74	VDD_3.3	-	Power supply terminal 3.3V
75	VSS	-	Connect to ground
76	MDATA8	I/O	SDRAM data
77	LDQM	O	SDRAM Lower or upper mask
78	SD-CLK	O	SDRAM Clock
79	CLKSEL	I	Selects SYSCLK or VCLK as clock source. Normal operation is to tie HIGH.
80	MADDR9	O	SDRAM address
81	MADDR8	O	SDRAM address
82	VDD_3.3	-	Power supply terminal 3.3V
83	VSS	-	Connect to ground
84	MADDR7	O	SDRAM address

2.Pin function (ZIVA-4.1-PB0 : 3/5)

Pin No.	Symbol	I/O	Description
85	MADDR6	O	SDRAM address
86	MADDR5	O	SDRAM address
87	VDD_2.5	-	Power supply terminal 2.5V
88	VSS	-	Connect to ground
89	MADDR4	O	SDRAM address
90	MWE	O	SDRAM write enable
91	SD-CAS	O	Active LOW SDRAM column address
92	VDD_3.3	-	Power supply terminal 3.3V
93	VSS	-	Connect to ground
94	SD-RAS	O	Active LOW SDRAM row address
95	SD-CS0	O	Active LOW SDRAM chip select 0
96	SD-CS1/MADDR11	O	Active LOW SDRAM chip select 1 or use as MADDR11 for larger SDRAM
97	SD-BS	O	SDRAM bank select
98	MADDR10	O	SDRAM address
99	MADDR0	O	SDRAM address
100	VDD_3.3	-	Power supply terminal 3.3V
101	VSS	-	Connect to ground
102	MADDR1	O	SDRAM address
103	MADDR2	O	SDRAM address
104	MADDR3	O	SDRAM address
105	RESERVED	I	Tie to VSS or VDD_3.3 as specified in table 1
106	NC	-	Non connect
107	NC	-	Non connect
108	RESERVED	I	Tie to VSS or VDD_3.3 as specified in table 1
109	NC	-	Non connect
110	RESERVED	I	Tie to VSS or VDD_3.3 as specified in table 1
111	RESERVED	I	Tie to VSS or VDD_3.3 as specified in table 1
112	RESERVED	I	Tie to VSS or VDD_3.3 as specified in table 1
113	DAI-LRCK	I	PCM left/right clock
114	DAI-BCK	I	PCM input bit clock
115	VDD_3.3	-	Power supply 3.3V
116	VSS	-	Connect to ground
117	DAI-DATA	I	PCM data input
118	DA-DATA3	O	PCM data output. Eight channels. Serial audio samples relative to DA_BCK and DA_LRCK
119	DA-DATA2	O	PCM data output. Eight channels. Serial audio samples relative to DA_BCK and DA_LRCK
120	DA-DATA1	O	PCM data output. Eight channels. Serial audio samples relative to DA_BCK and DA_LRCK
121	DA-DATA0	O	PCM data output. Eight channels. Serial audio samples relative to DA_BCK and DA_LRCK
122	DA-LRCK	O	PCM left clock. Identifies the channel for each sample
123	VDD_3.3	-	Power supply terminal 3.3V
124	VSS	-	Connect to ground
125	DA-XCK	I/O	Audio external frequency clock input or output
126	DA-BCK	O	PCM bit clock output
127	DA-IEC	O	PCM data out in IEC-958 format or compressed data out in IEC-1937 format
128	VDD_2.5	-	Power supply terminal 2.5V

2.Pin function (ZIVA-4.1-PB0 : 4/5)

Pin No.	Symbol	I/O	Description
129	VSS	-	Connect to ground
130	NC	-	Non connect
131	VSS_DAC	-	Connect to ground for analog video DAC
132	VSS_VIDEO	-	Connect to ground for analog video
133	CVBS	O	DAC video output format : CVBS. Macrovision encoded
134	VDD_DAC	-	Power supply terminal for analog video DAC
135	VDD_VIDEO	-	Power supply terminal for analog video
136	NC	-	Non connect
137	VSS_DAC	-	Connect to ground for analog video DAC
138	VSS_VIDEO	-	Connect to ground for analog video
139	CVBS/G/Y	O	DAC video output format. Macrovision encoded
140	VDD_DAC	-	Power supply terminal for analog video DAC
141	VDD_VIDEO	-	Power supply terminal for analog video
142	NC	-	Non connect
143	VSS_DAC	-	Connect to ground for analog video DAC
144	VSS_VIDEO	-	Connect to ground for analog video
145	Y/B/U	O	DAC video output format. Macrovision encoded
146	VDD_DAC	-	Power supply terminal for analog video DAC
147	VDD_VIDEO	-	Power supply terminal for analog video
148	NC	-	Non connect
149	VSS_DAC	-	Connect to ground for analog video DAC
150	VSS_VIDEO	-	Connect to ground for analog video
151	C/R/V	O	DAC video output format. Macrovision encoded
152	VDD_DAC	-	Power supply terminal for analog video DAC
153	VDD_VIDEO	-	Power supply terminal for analog video
154	VSS_RREF	-	Connect to ground for analog video
155	RREF	O	Reference resistor. Connecting to pin 154
156	VDD_RREF	-	Power supply terminal for analog video 3.3V
157	A_VSS	-	Power supply terminal for analog PLL 3.3V
158	SYSCLK	I	Optical system clock. Tie to A_VDD through a 1K ohm resistor
159	VCLK	I	System clock input
160	A_VDD	-	Power supply terminal for analog PLL 3.3V
161	DVD-DATA0/CD-DATA	I	Serial CD data. This pin is shared with DVD compressed data DVD-DATA0
162	DVD-DATA1 /CD-LRCK	I	Programmable polarity 16-bit word synchronization to the decoder. This pin is shared with DVD compressed data DVD-DATA1
163	DVD-DATA2/CD-BCK	I	CD bit clock. Decoder accept multiple BCK rates. This pin is shared with DVD compressed DVD-DATA2
164	DVD-DATA3/CD-C2PO	I	Asserted HIGH indicates a corrupted byte. This pin is shared with DVD compressed data DVD-DATA3
165	DVD-DATA4/CDGSDATA	I	DVD parallel compressed data from DVD DSP. or CD-G data indicating serial sub code data input
166	VSS	-	Connect to ground
167	VDD_3.3	-	Power supply terminal 3.3V
168	DVD-DATA5/CDG-VFSY	I	DVD parallel compressed data from DVD DSP. or CD-G frame sync indicating frame-start or composite synchronization input.
169	DVD-DATA6/CDG-SOS1	I	DVD parallel compressed data from DVD DSP. or CD-G block sync indicating block-start synchronization input

2.Pin function (ZIVA-4.1-PB0 : 5/5)

Pin No.	Symbol	I/O	Description
170	DVD-DATA7/CDG-SCLK	I	DVD parallel compressed data from DVD DSP. or CD-G clock indicating sub code data clock input or output
171	VDACK	I	In synchronous mode, bit stream data acknowledge. Asserted when DVD data is valid. Polarity is programmable
172	VREQUEST	O	Bit stream request
173	VSTROBE	I	Bit stream strobe
174	ERROR	I	Error in input data
175	VDD_3.3	-	Power supply terminal 3.3V
176	RESERVED	I	Tie to VSS or VDD_3.3 as specified in table 1
177	VDD_3.3	-	Power supply terminal 3.3V
178	VSS	-	Connect to ground
179	NC	-	Non connect
180	RESERVED	I	Tie to VSS or VDD_3.3 as specified in table 1
181	NC	-	Non connect
182	HADDR0	I	Host address bus. 3-bit address bus selects one of eight host interface registers
183	HADDR1	I	Host address bus. 3-bit address bus selects one of eight host interface registers
184	HADDR2	I	Host address bus. 3-bit address bus selects one of eight host interface registers
185	RESERVED	I	Tie to VSS or VDD_3.3 as specified in table 1
186	RESERVED	I	Tie to VSS or VDD_3.3 as specified in table 1
187	RESERVED	I	Tie to VSS or VDD_3.3 as specified in table 1
188	VSS	-	Connect to ground
189	VDD_2.5	-	Power supply terminal 2.5V
190	RESERVED	I	Tie to VSS or VDD_3.3 as specified in table 1
191	VSS	-	Connect to ground
192	VDD_3.3	-	Power supply terminal 3.3V
193	RESERVED	I	Tie to VSS or VDD_3.3 as specified in table 1
194	RESERVED	I	Tie to VSS or VDD_3.3 as specified in table 1
195	RESERVED	I	Tie to VSS or VDD_3.3 as specified in table 1
196	RESERVED	I	Tie to VSS or VDD_3.3 as specified in table 1
197	HDATA7	I/O	The 8-bit bi-directional host data through which the host writes data to the decoder code.
198	VSS	-	Connect to ground
199	HDATA6	I/O	The 8-bit bi-directional host data through which the host writes data to the decoder code.
200	HDATA5	I/O	The 8-bit bi-directional host data through which the host writes data to the decoder code.
201	HDATA4	I/O	The 8-bit bi-directional host data through which the host writes data to the decoder code.
202	HDATA3	I/O	The 8-bit bi-directional host data through which the host writes data to the decoder code.
203	HDATA2	I/O	The 8-bit bi-directional host data through which the host writes data to the decoder code.
204	VDD_3.3	-	Power supply terminal 3.3V
205	VSS	-	Connect to ground
206	HDATA1	I/O	The 8-bit bi-directional host data through which the host writes data to the decoder code.
207	HDATA0	I/O	The 8-bit bi-directional host data through which the host writes data to the decoder code.
208	$\overline{\text{CS}}$	I	Host chip select input



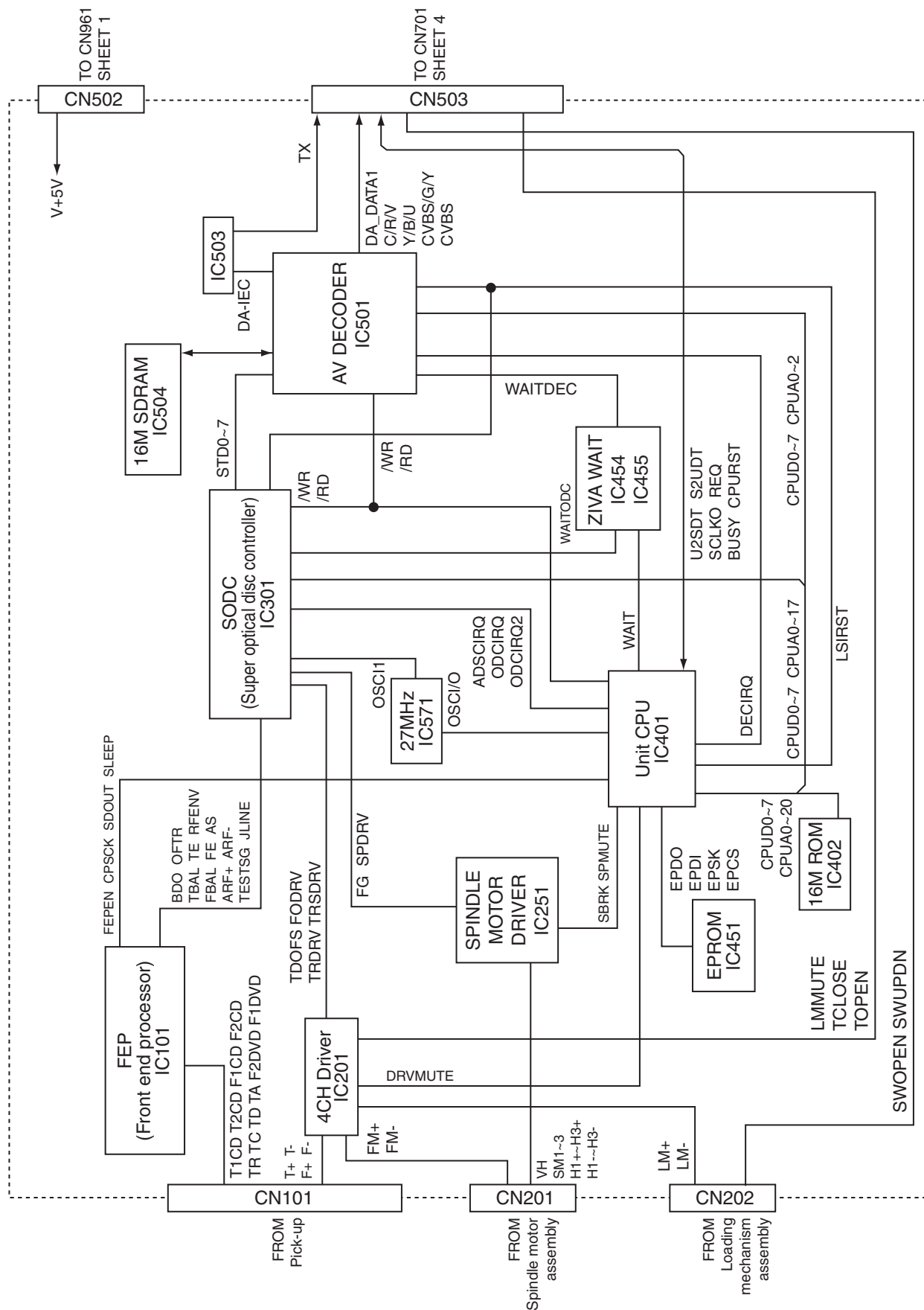
VICTOR COMPANY OF JAPAN, LIMITED
PERSONAL & MOBILE NETWORK BUSINESS UNIT
1644, Shimotsuruma, Yamato, Kanagawa 242-8514, Japan

Safety precaution

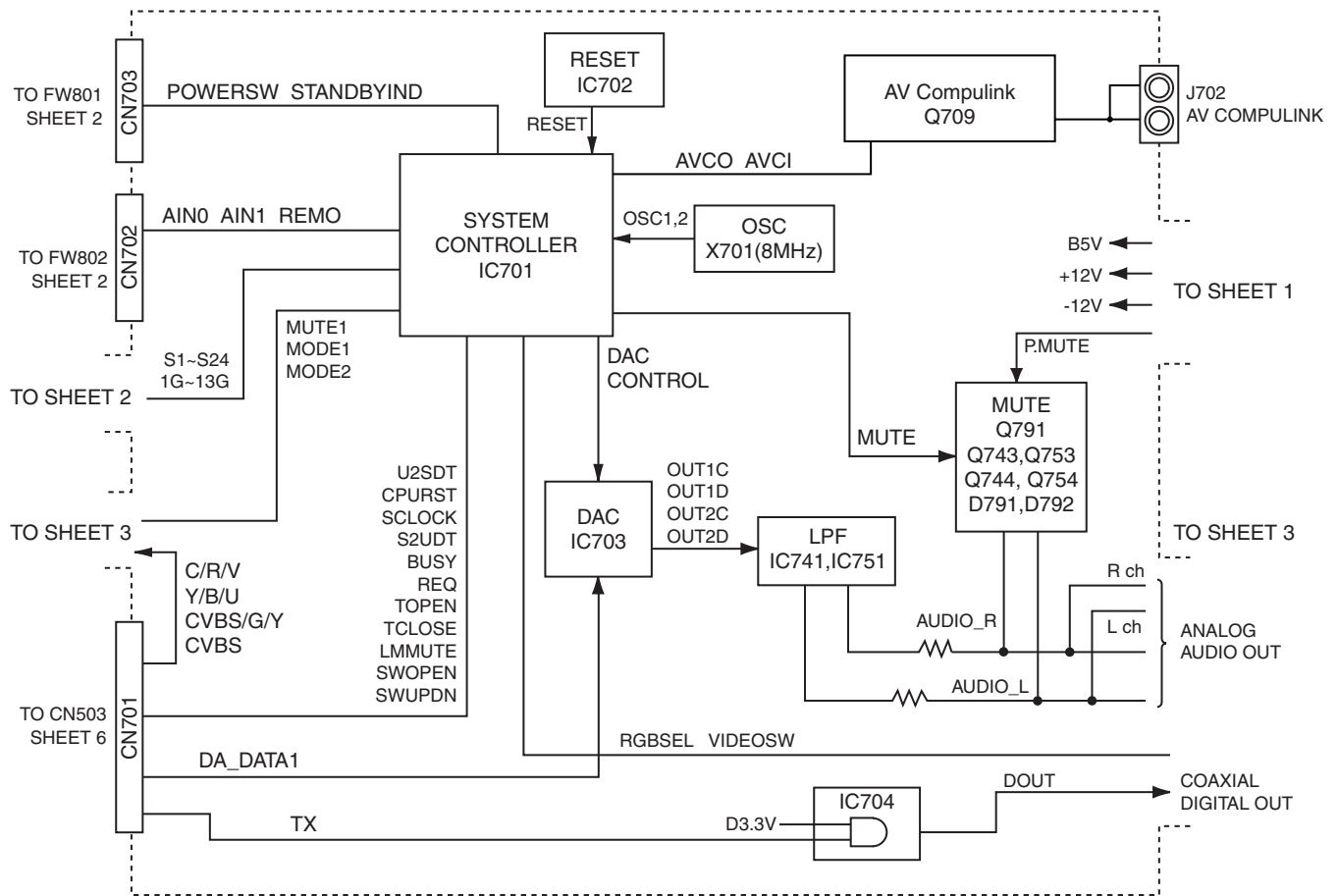
In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (⬤) and ICP (●) or identified by the "△" mark nearby are critical for safety. When replacing them, be sure to use the parts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

Block diagrams

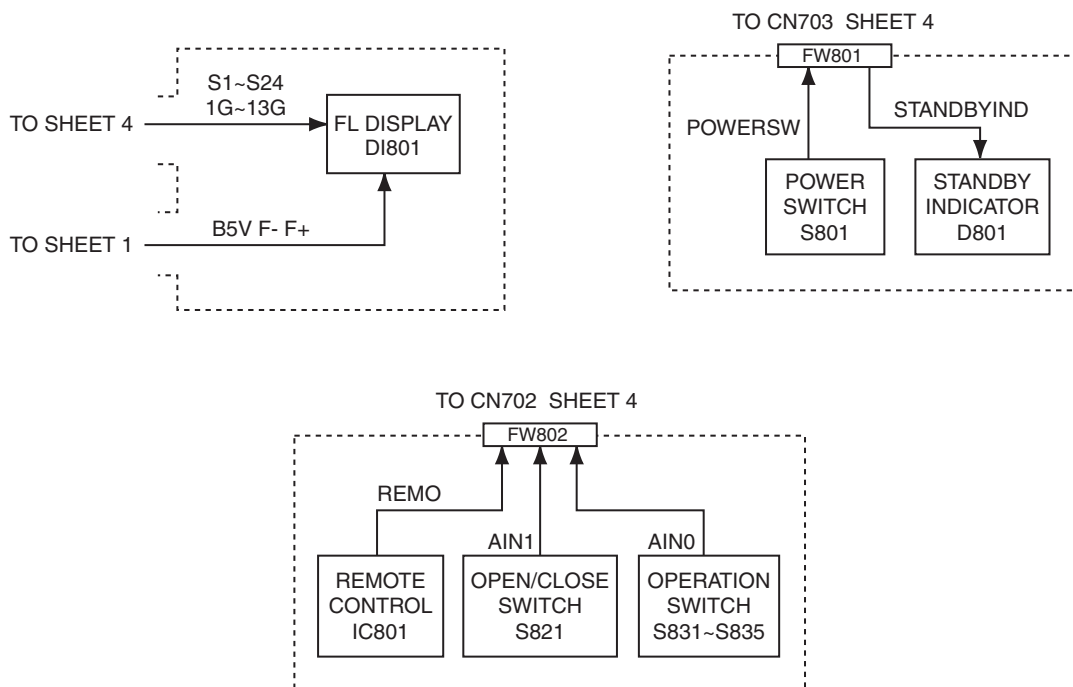
■ DVD Servo control & AV decoder section (SHEET 5,6)



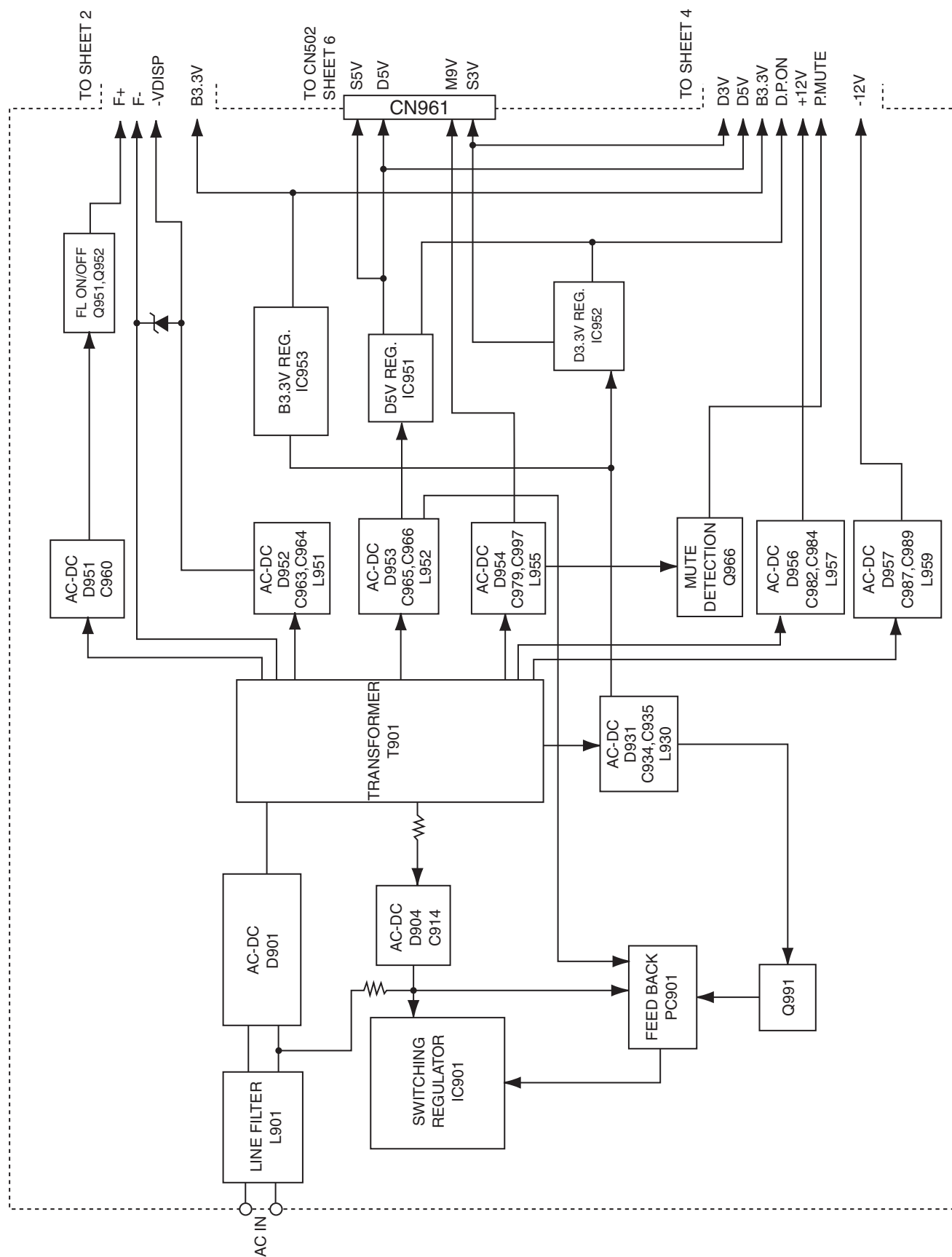
System control & audio output section (SHEET 4)



FL Display & Operation switch section (SHEET 2)

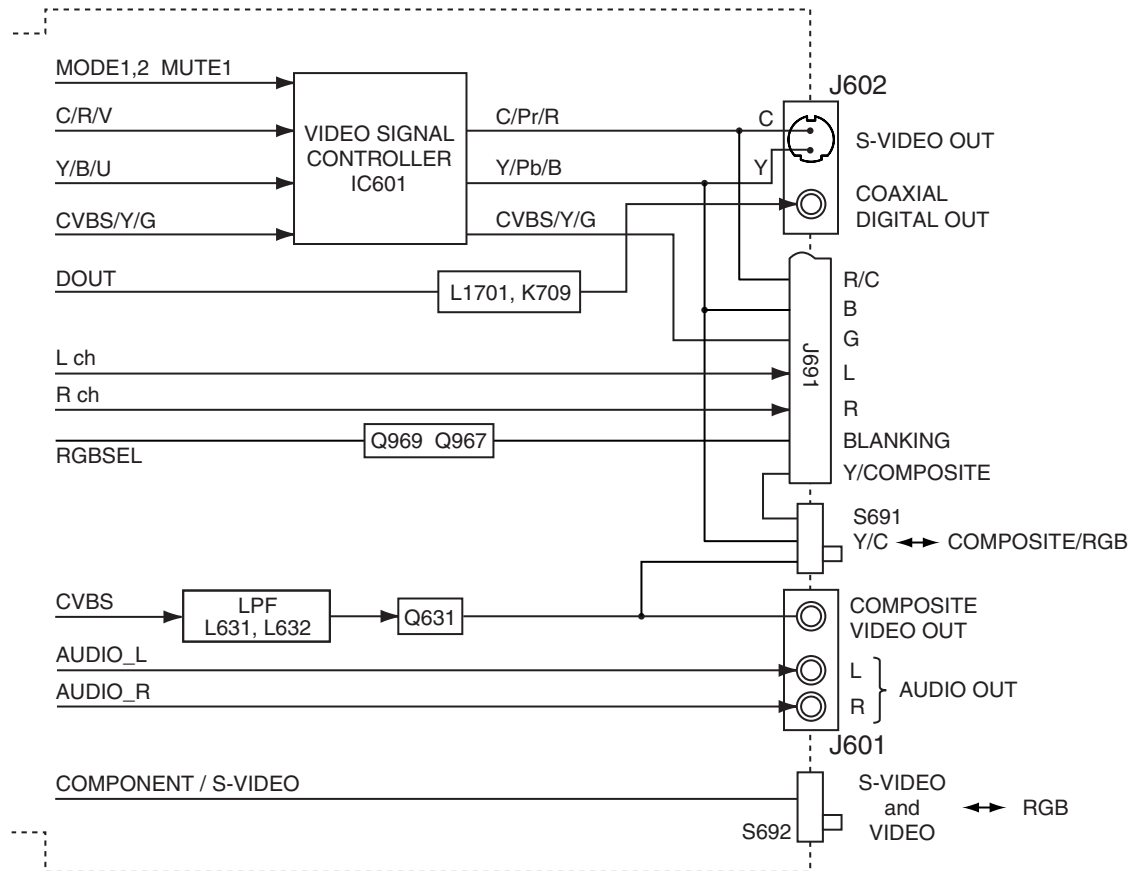


■ DC Regulator section (SHEET 1)



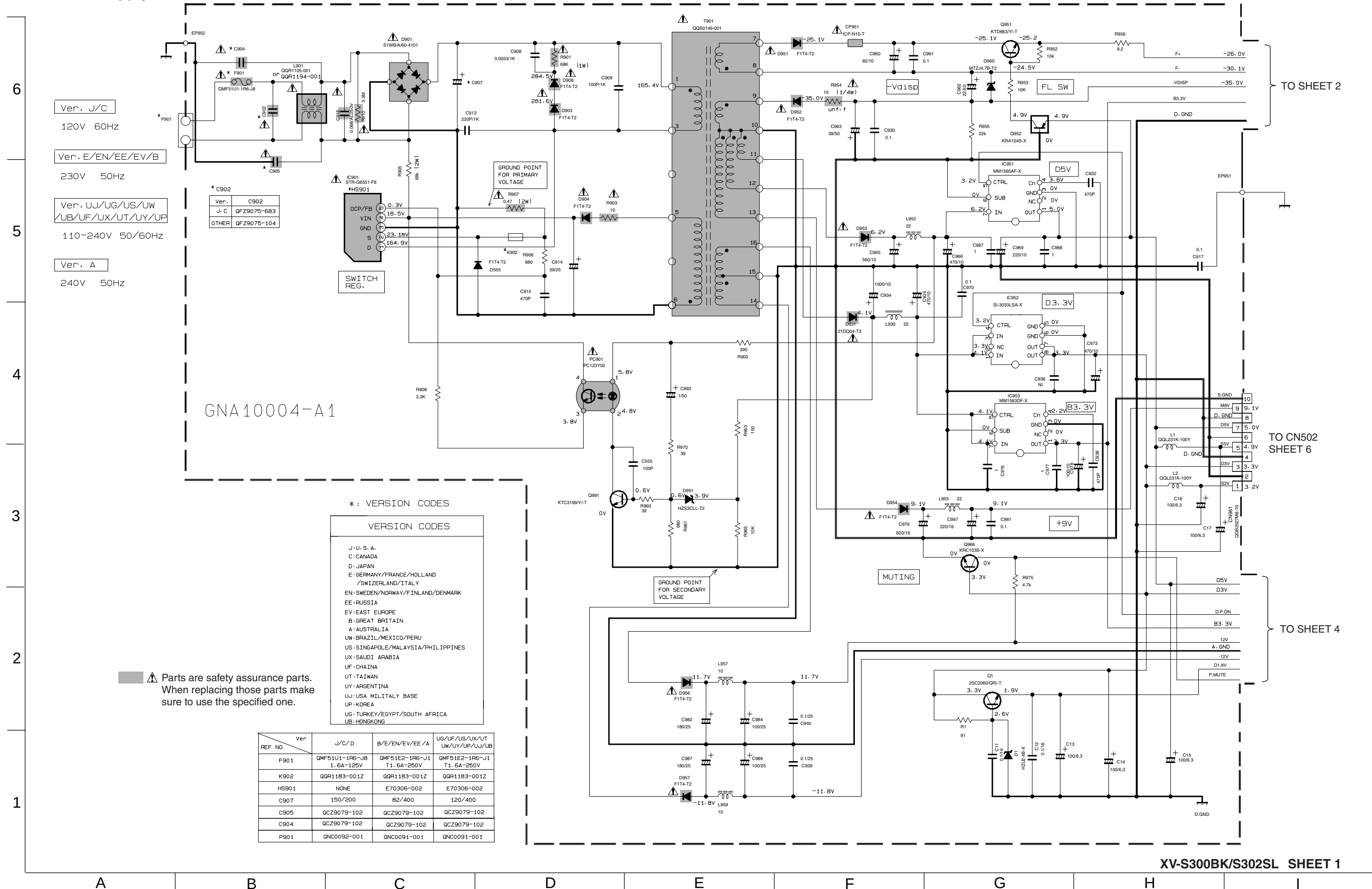
■ Audio & Video signal output section (SHEET 3)

TO SHEET 4

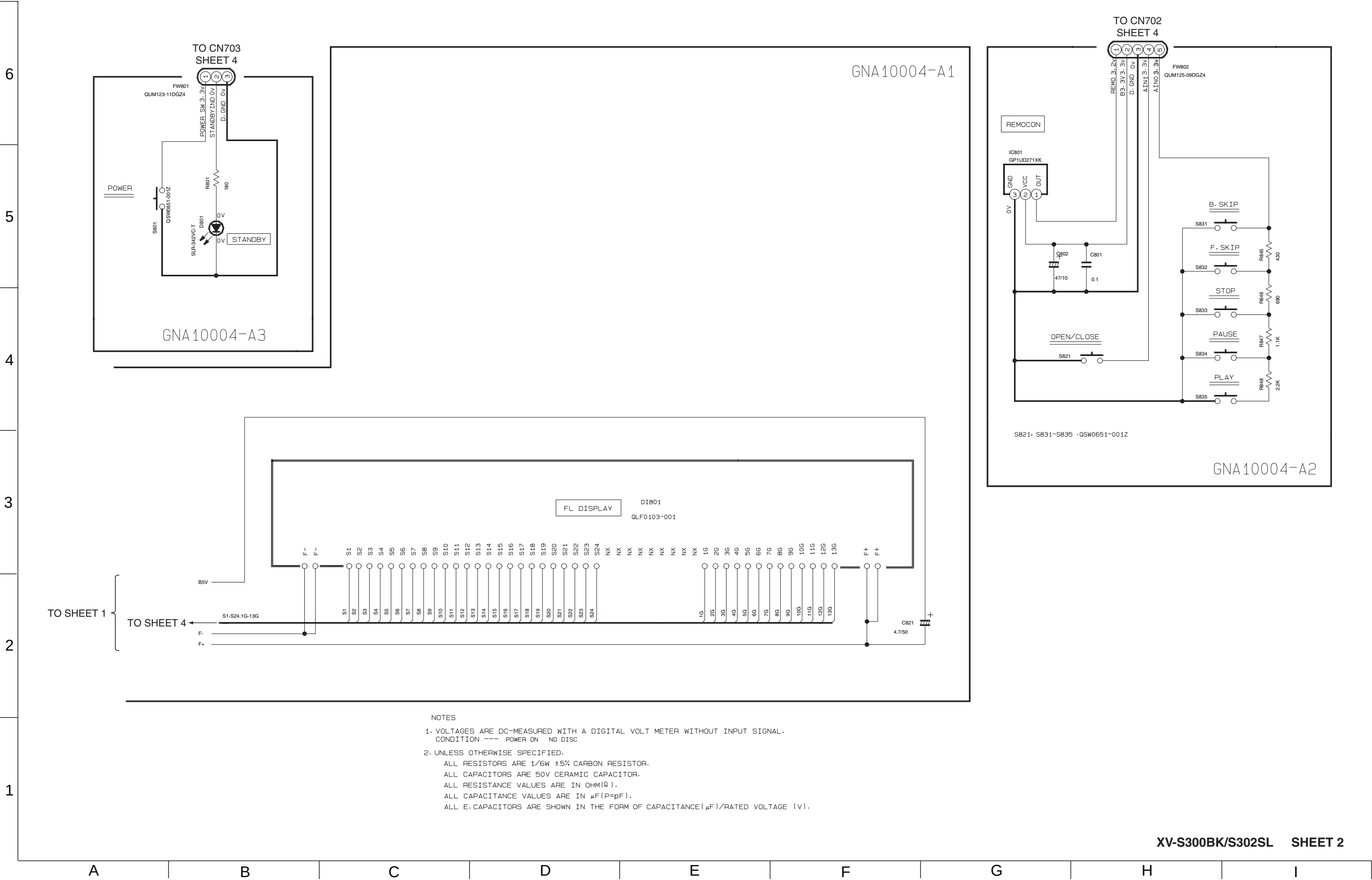


Standard schematic diagrams

■ Power supply section

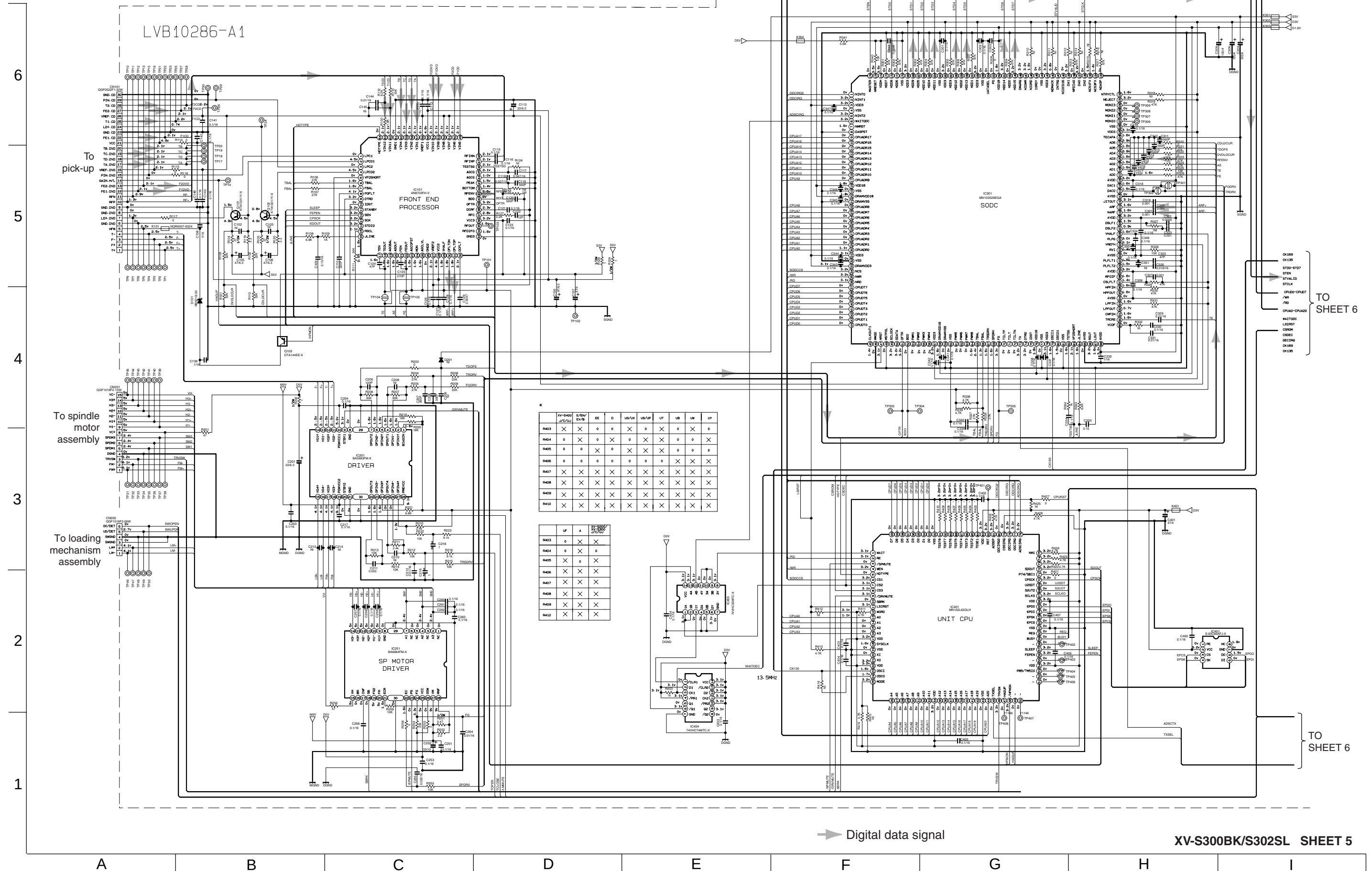


FL Display & operation switch section

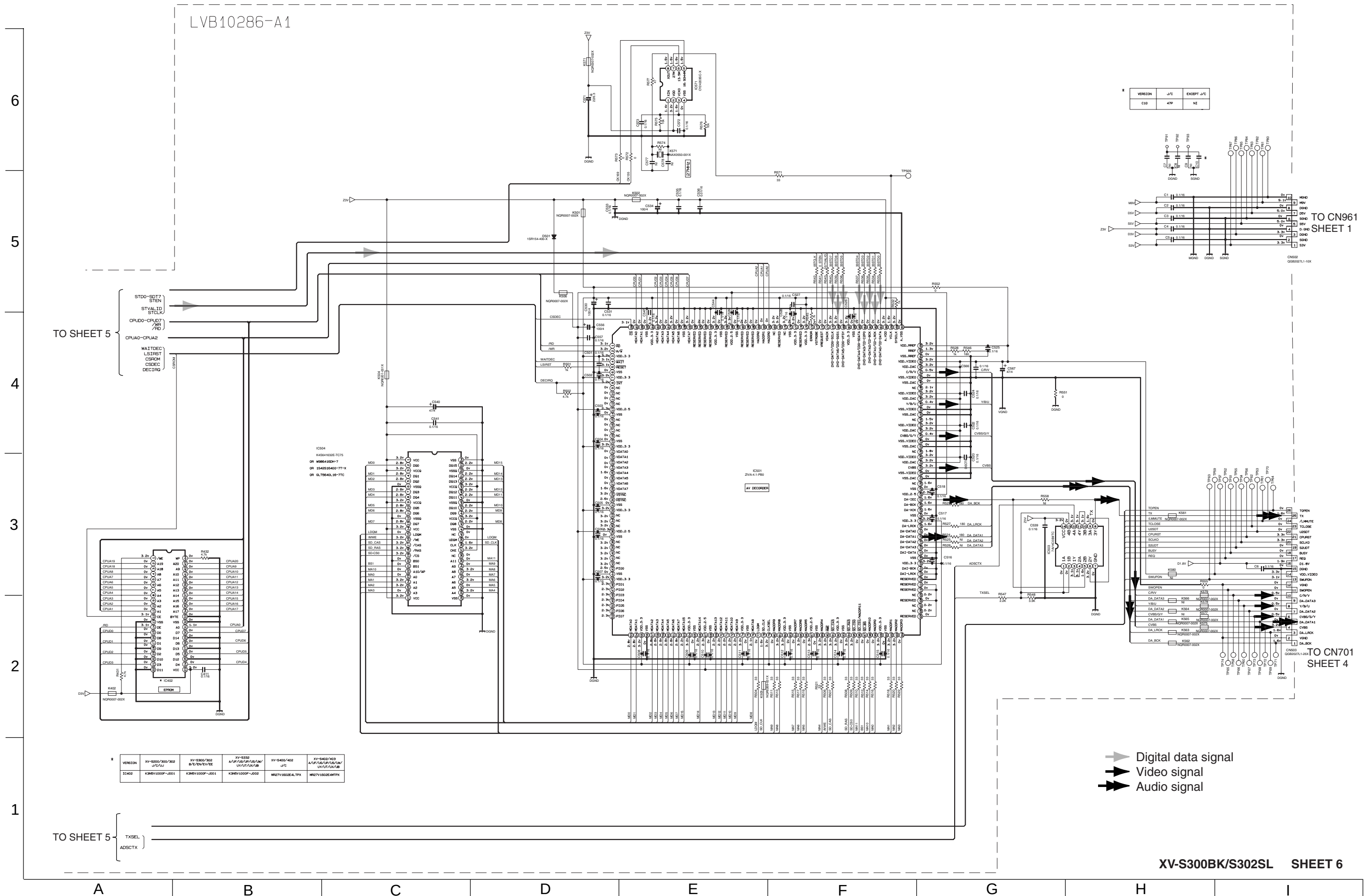




■ DVD Servo control section



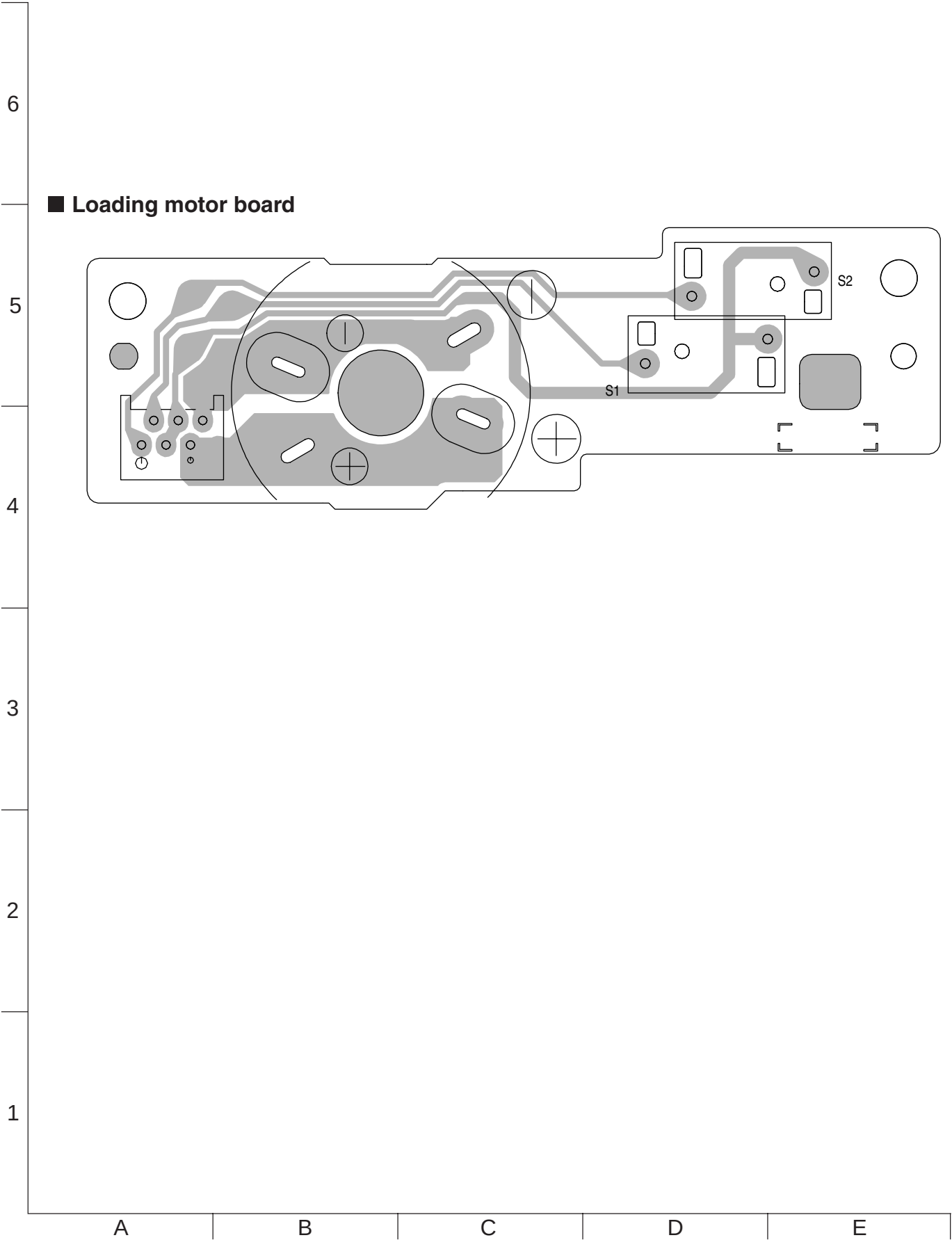
■ AV Decoder section



■ Main board







PARTS LIST

[XV-S300BK/XV-S302SL]

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

Area Suffix

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

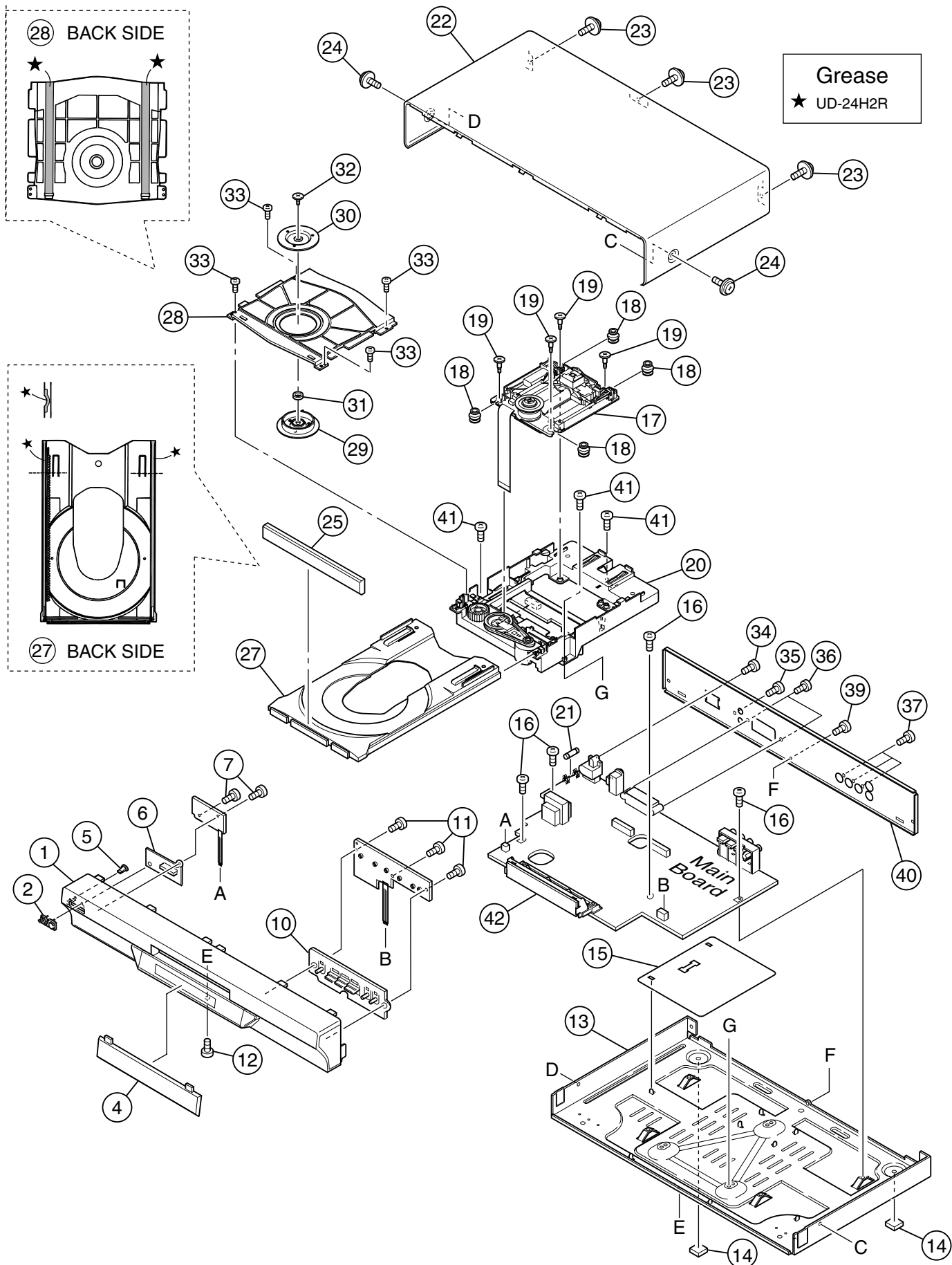
- Contents -

Exploded view of general assembly and parts list	3-2
DVD Traverse mechanism assembly and parts list	3-5
DVD Loading mechanism assembly and parts list	3-7
Electrical parts list	3-9
Packing materials and accessories parts list	3-15

Exploded view of general assembly and parts list

Block No.

M	1	M	M
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■ Parts list (General assembly)

Block No. M1MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
△	1	GN10017-006A	FRONT PANEL	1		1,2,3,4,5
		GN10017-002A	FRONT PANEL	1		6,7,8,9,10
	2	GN40006-001A	JVC MARK	1		1,2,3,4,5
		GN40006-002A	JVC MARK	1		6,7,8,9,10
	4	GN20009-001A	WINDOW SCREEN	1		
	5	LE30900-001A	INDICATOR	1		
	6	GN20011-001A	PUSH BUTTON	1		1,2,3,4,5
		GN20011-002A	PUSH BUTTON	1		6,7,8,9,10
	7	QYSBSF2608Z	T.SCREW	2		
	10	GN20012-001A	PUSH BUTTON	1		1,2,3,4,5
		GN20012-002A	PUSH BUTTON	1		6,7,8,9,10
	11	QYSBSF2608Z	T.SCREW	3		
	12	QYSDSG3008M	SCREW	1		1,2,3,4,5
		QYSDSG3008N	T.SCREW	1		6,7,8,9,10
	13	GN10016-001A	CHASSIS BASE	1		
	14	E75896-001	FELT SPACER	2		
	15	LE40768-003A	PROTECT SHEET	1		
	16	QYSBSGG3008E	T.SCREW	4		
	17	-----	TRAVERSE MECHANISM	1	See 3-5 page	
	18	LV41659-201A	INSULATOR	4		
	19	LV41424-001A	SPECIAL SCREW	4		
	20	-----	LOADING MECHANISM	1	See 3-7 page	
	21	QMF51E2-1R6-J1	FUSE	1		
	22	LE20541-001A/S/	METAL COVER	1		1,2,3,4,5
		LE20541-002A/S/	METAL COVER	1		6,7,8,9,10
	23	QYSBSGG3008E	T.SCREW	3		
	24	E406308-003	SPECIAL SCREW	2		1,2,3,4,5
		E406308-004	SPECIAL SCREW	2		6,7,8,9,10
	25	GN20013-001A	FITTING	1		1,2,3,4,5
		GN20013-002A	FITTING	1		6,7,8,9,10
	27	LV10455-002A	TRAY	1		
	28	LV20913-002A	CLAMPER BASE	1		
	29	LV32417-001A	CLAMPER	1		
	30	LV42089-002A	YOKE	1		
	31	LV42930-003A	MAGNET	1		1,2,3,5,8,10
		LV41118-003A	MAGNET	1		4,6,7,9
	32	LV41741-001A	SPECIAL SCREW	1		
	33	QYSBSF2008Z	SCREW	4		
	34	QYSBSGY3008M	SPECIAL SCREW	1	AC INLET	
	35	QYSBSGY3008M	SPECIAL SCREW	1	COMPU LINK	
	36	QYSBSGY3008M	SPECIAL SCREW	2	VIDEO OUT	
	37	QYSBSGY3008M	SPECIAL SCREW	3	A/V OUT	
	39	QYSBSGY3008M	SPECIAL SCREW	1	REAR + CHASSIS	

Explanation of area column

1	=XV-S300BK	ver. B	6	=XV-S302SL	ver. B
2	=XV-S300BK	ver. E	7	=XV-S302SL	ver. E
3	=XV-S300BK	ver. EE	8	=XV-S302SL	ver. EE
4	=XV-S300BK	ver. EN	9	=XV-S302SL	ver. EN
5	=XV-S300BK	ver. EV	10	=XV-S302SL	ver. EV

■ Parts list (General assembly)

Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	40	GN20018-050A	REAR PANEL	1		1,2,4,5
		GN20018-053A	REAR PANEL	1		6,7,9,10
		GN20018-051A	REAR PANEL	1		3
		GN20018-054A	REAR PANEL	1		8
	41	QYSBSG3010E	T.SCREW	3		
	42	LE20540-002A	FL HOLDER	1		

Explanation of area column

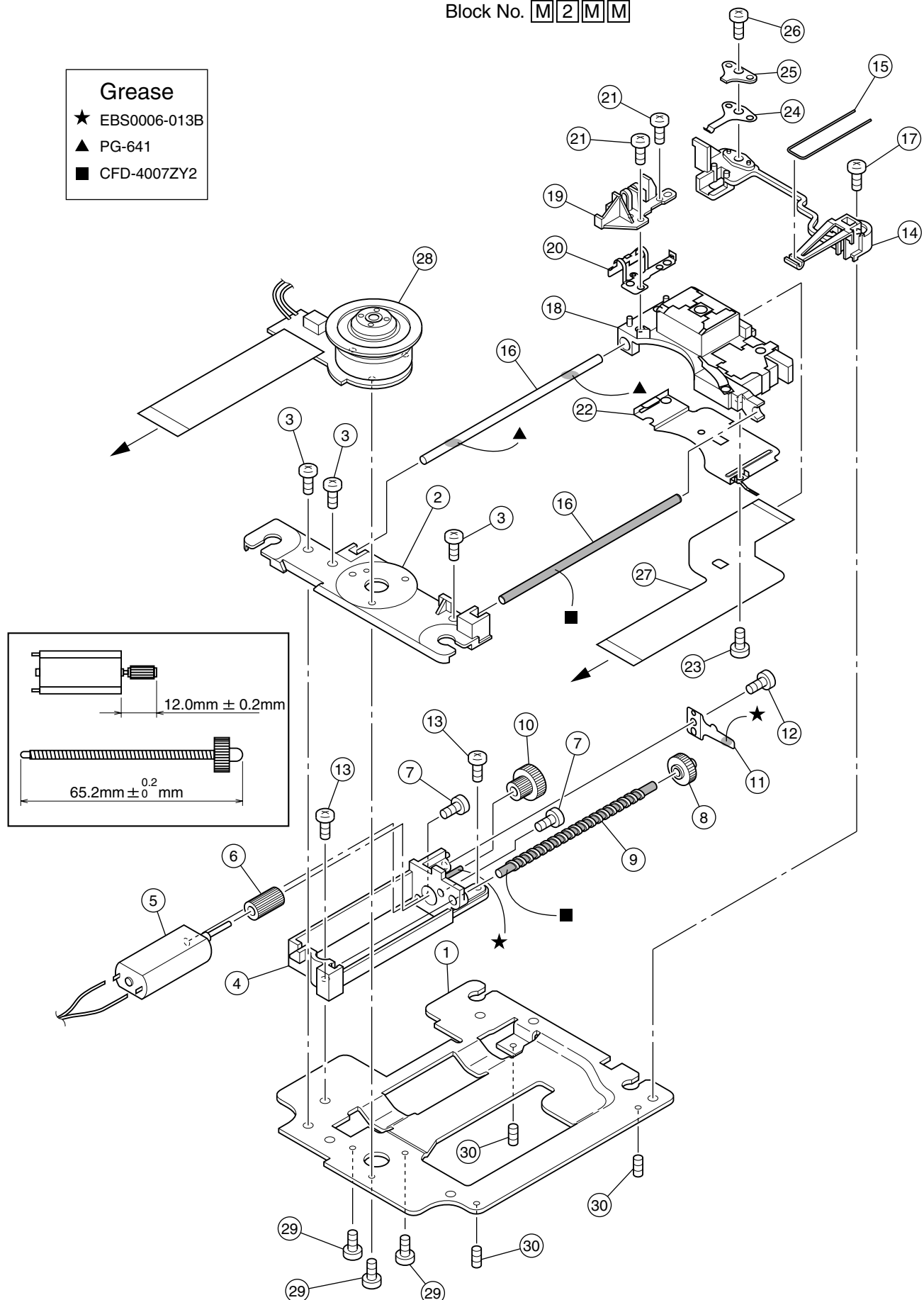
1	=XV-S300BK	ver. B	6	=XV-S302SL	ver. B
2	=XV-S300BK	ver. E	7	=XV-S302SL	ver. E
3	=XV-S300BK	ver. EE	8	=XV-S302SL	ver. EE
4	=XV-S300BK	ver. EN	9	=XV-S302SL	ver. EN
5	=XV-S300BK	ver. EV	10	=XV-S302SL	ver. EV

DVD Traverse mechanism assembly and parts list

Block No. **M 2 M M**

Grease

- ★ EBS0006-013B
- ▲ PG-641
- CFD-4007ZY2



■ Parts list (DVD Traverse mechanism assembly)

Block No. M2MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	1	LE20520-002A	MECHA BASE	1		
	2	LE20516-001A	SPINDLE BASE	1		
	3	QYSDST2605M	TAPPING SCREW	3		
	4	LE30909-001A	HOLDER	1		
	5	QAR0165-001	FEED MOTOR	1		
	6	LV41510-001A	FEED GEAR	1		
	7	QYSPSPU2040M	SCREW	2		
	8	LV41512-001A	FEED GEAR	1		
	9	LV41517-003A	LEAD SCREW	1		
	10	LV41511-002A	FEED GEAR	1		
	11	LE40742-001A	TORSION SPRING	1		
	12	QYSDSF2005Z	SCREW	1		
	13	QYSDST2605M	TAPPING SCREW	2		
	14	LE20517-001A	HOLDER	1		
	15	LE40744-001A	SPRING	1		
	16	LV41121-002A	SLIDE SHAFT	2		
	17	QYSDST2605M	TAPPING SCREW	1		
	18	QAL0342-001	OPTICAL PICK-UP	1		
	19	LE20519-001A	ACTUATOR	1		
	20	LE30886-001A	SPRING	1		
	21	QYSPSFU1740Z	SCREW	2		
	22	LE30888-003A	SPRING	1		
	23	QYSPSGU1430Z	SCREW	1		
	24	LE40743-001A	SPRING	1		
	25	LE40774-001A	PLATE	1		
	26	QYSDST2606Z	SCREW	1		
	27	QAL0284-001	F.P.C.WIRE ASSY	1		
	28	QAR0162-001	SPINDLE MOTOR	1		
	29	QYSPSPU1760Z	SCREW	3		
	30	QYYASPF2608N	SCREW	3		

Block No.

M	3	M	M
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- ★ UD-24H2
- ▲ EM-30L
- CFD-4007ZY2



■ Parts list (DVD Loading mechanism assembly)

Block No. M3MM

△	Item	Parts number	Parts name	Q'ty	Description	Area
	1	LV10454-007A	LOADING BASE	1		
	2	QAR0164-001	MOTOR	1		
	3	LV42087-001A	MOTOR PULLEY	1		
	4	QYSPSPU1730Z	SCREW	1		
	5	VKZ4777-003	MINI SCREW	1		
	6	LV42209-001A	BELT	1		
	7	LV42084-002A	PULLEY GEAR	1		
	8	LV42085-002A	MIDDLE GEAR	1		
	9	LV42086-001A	IDLE GEAR	1		
	10	LV32514-002A	SLIDE CAM	1		
	11	LV42348-001A	GEAR BRACKET	1		
	12	VKZ4777-003	MINI SCREW	1		
	13	LV20912-002A	ELEVATOR	1		
	14	QUQK10-0610AJ	FFC WIRE	1		

■ Electrical parts list (Loading motor board)

Block No. 03

△	Item	Parts number	Parts name	Remarks	Area
	CN 1	QGF1016F3-06	CONNECTOR		
	S 1	QSW0910-002	SWITCH		
	S 2	QSW0910-002	SWITCH		

■ Electrical parts list (Main board)

Block No. 01

△	Item	Parts number	Parts name	Remarks	Area	△	Item	Parts number	Parts name	Remarks	Area
	BK801	LE20539-001A	FL HOLDER				C 754	QFN31HJ-681Z	M CAPACITOR	680PF 5% 50V	
	C 11	QCB1HK-104Y	C CAPACITOR	.10MF 10% 50V			C 755	QFN31HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C 12	QCB1HK-104Y	C CAPACITOR	.10MF 10% 50V			C 756	QETN1EM-226Z	E CAPACITOR	22MF 20% 25V	
	C 13	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V			C 757	QFN31HJ-222Z	M CAPACITOR	2200PF 5% 50V	
	C 14	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V			C 761	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 15	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V			C 762	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 16	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V			C 771	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 17	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V			C 772	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 21	NCS31HJ-101X	C.CAPA. C.M				C 797	NCB31HK-152X	C CAPACITOR		
	C 555	QCB1HK-101Y	C CAPACITOR	100PF 10% 50V			C 801	NCB31CK-104X	C CAPACITOR		
	C 631	NCS31HJ-271X	C CAPACITOR				C 802	QEK1AM-476Z	E CAPACITOR	47MF 20% 10V	
	C 633	NCS31HJ-221X	C.CAPA. C.M				C 821	QEK1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 634	NCS31HJ-101X	C.CAPA. C.M			△	C 902	QFZ9075-104	M CAPACITOR	.10MF	
	C 639	NCB31CK-104X	C CAPACITOR				C 904	QCZ9079-102	C CAPACITOR	1000PF	
	C 649	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V			C 905	QCZ9079-102	C CAPACITOR	1000PF	
	C 650	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V		△	C 907	QEZ0374-826	E CAPACITOR	82MF	
	C 651	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V			C 908	QCZ0136-332Z	C CAPACITOR	3300PF	
	C 652	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V			C 909	QCZ0136-101Z	C CAPACITOR	100PF	
	C 653	QETN1CM-226Z	E CAPACITOR	22MF 20% 16V			C 910	QRZ9044-335	F RESISTOR	3.3M 1/0W	5
	C 654	QETN1CM-226Z	E CAPACITOR	22MF 20% 16V			C 913	QCZ0136-221Z	C CAPACITOR	220PF	
	C 655	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V			C 914	QEMX1EM-396Z	E CAPACITOR	OR USE PARTS	
	C 656	QETN1CM-226Z	E CAPACITOR	22MF 20% 16V			C 915	NCB31HK-471X	C CAPACITOR		
	C 657	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V			C 917	NCB31CK-104X	C CAPACITOR		
	C 658	NCB31CK-104X	C CAPACITOR				C 918	QFZ9075-683	M CAPACITOR	.068MF	
	C 660	QETN1CM-227Z	E CAPACITOR	220MF 20% 16V			C 930	NCB31HK-103X	C CAPACITOR		
	C 661	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V			C 932	NCB31HK-471X	C CAPACITOR		
	C 662	NCB31CK-104X	C CAPACITOR				C 934	QEZ0528-108	E CAPACITOR	1000MF	
	C 663	NCB31CK-104X	C CAPACITOR				C 935	QETN1AM-477Z	E CAPACITOR	470MF 20% 10V	
	C 664	NCB31CK-104X	C CAPACITOR				C 938	NCB31HK-471X	C CAPACITOR		
	C 665	NCB31CK-104X	C CAPACITOR				C 939	NCB31EK-104X	C CAPACITOR		
	C 666	NCS31HJ-271X	C CAPACITOR				C 940	NCB31EK-104X	C CAPACITOR		
	C 667	NCS31HJ-271X	C CAPACITOR				C 960	QEMX1AM-826Z	E CAPACITOR	OR USE PARTS	
	C 668	NCS31HJ-271X	C CAPACITOR				C 961	NCB31CK-104X	C CAPACITOR		
	C 685	NCS31HJ-471X	C CAPACITOR				C 962	QETN1HM-226Z	E CAPACITOR	22MF 20% 50V	
	C 686	NCS31HJ-471X	C CAPACITOR				C 963	QEMX1HM-396Z	E CAPACITOR	OR USE PARTS	
	C 694	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V			C 965	QEZ0586-567	E CAPACITOR	OR USE PARTS	
	C 701	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V			C 966	QETN1AM-477Z	E CAPACITOR	470MF 20% 10V	
	C 702	NCB31CK-104X	C CAPACITOR				C 967	NCB21CK-105X	C CAPACITOR		
	C 704	NCS31HJ-101X	C.CAPA. C.M				C 968	NCB21CK-105X	C CAPACITOR		
	C 705	NCB31CK-104X	C CAPACITOR				C 969	QETN1AM-227Z	E CAPACITOR	220MF 20% 10V	
	C 706	NCB31CK-104X	C CAPACITOR				C 970	NCB31CK-104X	C CAPACITOR		
	C 709	NCS31HJ-331X	C.CAPA. C.M				C 973	QETN1AM-477Z	E CAPACITOR	470MF 20% 10V	
	C 711	QCZ0202-155Z	ML C CAPA I/M	1.5MF			C 976	NCB21CK-105X	C CAPACITOR		
	C 714	QETN0JM-108Z	E CAPACITOR	1000MF 20% 6.3V			C 977	NCB21CK-105X	C CAPACITOR		
	C 716	QETN0JM-108Z	E CAPACITOR	1000MF 20% 6.3V			C 978	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 717	QCZ0202-155Z	ML C CAPA I/M	1.5MF			C 979	QEMW1CM-827	E CAPACITOR	OR USE PARTS	
	C 718	QETN0JM-227Z	E CAPACITOR	220MF 20% 6.3V			C 981	NCB31CK-104X	C CAPACITOR		
	C 722	NCS31HJ-101X	C.CAPA. C.M				C 982	QEMX1EM-187Z	E CAPACITOR	OR USE PARTS	1,2,3,5,8,10
	C 724	NCS31HJ-101X	C.CAPA. C.M					QEMW1EM-187	E CAPACITOR	OR USE PARTS	4,6,7,9
	C 728	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V			C 984	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 730	QFV21HJ-224Z	MF CAPACITOR	.22MF 5% 50V			C 985	QETN1CM-227Z	E CAPACITOR	220MF 20% 16V	
	C 731	QFN31HJ-103Z	M CAPACITOR	.010MF 5% 50V			C 987	QEMX1EM-187Z	E CAPACITOR	OR USE PARTS	
	C 737	QETN1EM-226Z	E CAPACITOR	22MF 20% 25V			C 989	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 738	QETN1EM-226Z	E CAPACITOR	22MF 20% 25V			C 992	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 740	QFN31HJ-102Z	M CAPACITOR	1000PF 5% 50V			C 997	QETN1CM-227Z	E CAPACITOR	220MF 20% 16V	
	C 741	QFN31HJ-221Z	M CAPACITOR	220PF 5% 50V			C1701	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 742	QFN31HJ-332Z	M CAPACITOR	3300PF 5% 50V			C1702	QETN1EM-475Z	E CAPACITOR	4.7MF 20% 25V	
	C 744	QFN31HJ-681Z	M CAPACITOR	680PF 5% 50V			C1703	NCS31HJ-151X	C CAPACITOR		
	C 745	QFN31HJ-103Z	M CAPACITOR	.010MF 5% 50V			C1704	NCS31HJ-331X	C.CAPA. C.M		
	C 746	QETN1EM-226Z	E CAPACITOR	22MF 20% 25V			C1750	QCB1HK-104Y	C CAPACITOR	.10MF 10% 50V	
	C 747	QFN31HJ-222Z	M CAPACITOR	2200PF 5% 50V			C1772	NCB31CK-104X	C CAPACITOR		
	C 750	QFN31HJ-102Z	M CAPACITOR	1000PF 5% 50V			CN701	QGB2027M8-26	CONNECTOR		
	C 751	QFN31HJ-221Z	M CAPACITOR	220PF 5% 50V			CN702	QGD2501C1-05Z	SOCKET I.M		
	C 752	QFN31HJ-332Z	M CAPACITOR	3300PF 5% 50V							

Explanation of area column

1 =XV-S300BK ver. B 4 =XV-S300BK ver. EN 6 =XV-S302SL ver. B 9 =XV-S302SL ver. EN
 2 =XV-S300BK ver. E 5 =XV-S300BK ver. EV 7 =XV-S302SL ver. E 10 =XV-S302SL ver. EV
 3 =XV-S300BK ver. EE 8 =XV-S302SL ver. EE

Electrical parts list (Main board)

Block No. 01

△	Item	Parts number	Parts name	Remarks	Area
	CN703	QGD2501C1-03Z	SOCKET		
	CN961	QGB2027M8-10	CONNECTOR		
△	CP951	ICP-N10-T	ICP		
	D 1	HZU2.4B-X	MG.RES C.M		
	D 555	F1T4-T2	FR DIODE		
	D 639	1SS133-T2	SI DIODE IM		
	D 701	1SS133-T2	SI DIODE IM		
	D 709	1SS133-T2	SI DIODE IM		
	D 791	1SS133-T2	SI DIODE IM		
	D 792	1SS133-T2	SI DIODE IM		
	D 801	SLR-342VC-T	LED	STANDBY	
	D 901	S1WB/A/60-4101	BRIDGE DIODE		
△	D 903	F1T4-T2	FR DIODE		
△	D 904	F1T4-T2	FR DIODE		
△	D 908	F1T4-T2	FR DIODE		
	D 931	21DQ04-T3	FR DIODE		
△	D 951	F1T4-T2	FR DIODE		
△	D 952	F1T4-T2	FR DIODE		
△	D 953	F1T4-T2	FR DIODE		
△	D 954	F1T4-T2	FR DIODE		
△	D 956	F1T4-T2	FR DIODE		
△	D 957	F1T4-T2	FR DIODE		
	D 960	MTZJ4.7B-T2	Z DIODE I M		
	D 991	HZS3CLL-T2	Z DIODE		
	DI801	QLF0103-002	FL TUBE		1,2,3,5,8,10
		QLF0103-001	FL TUBE		4,6,7,9
	EP711	QNZ0136-001Z	EARTH PLATE		
	EP951	QNZ0136-001Z	EARTH PLATE		
	EP952	QNZ0136-001Z	EARTH PLATE		
	FC901	QNG0003-001Z	FUSE CLIP		
	FC902	QNG0003-001Z	FUSE CLIP		
	FL901	LV41385-010A	FUSE LABEL		1,3,5,8,10
	HS901	E70306-002	HEAT SINK		
	IC601	MM1566BF-X	IC(VIDEO)		1,3,5,8,10
		MM1566BFBE-W	IC(VIDEO)		2,4,6,7,9
	IC701	MN101C35DLD	IC	SYSTEM MICOM	
	IC702	IC-PST9127-T	IC I.M		
	IC703	MN35505-X	IC C M		
	IC704	74VHCT08ASJ-X	IC		
	IC741	NJM4565M-W	IC		
	IC751	NJM4565M-W	IC		
	IC801	GP1UD271XK	RM RECIVER		
△	IC901	STR-G6551-F8	IC		
	IC951	MM1565AF-X	IC		
	IC952	SI-3033LSA-X	IC		
△	IC953	MM1563DF-X	IC		
	J 601	NZZ000000000734	PIN JACK		
	J 602	NZZ000000000732	S&DIGI JACK		
	J 691	QNZ0516-001	RGB CONNECTOR		
	J 702	QNS0089-001	3.5 JACK	AV COMPULINK	
	K 605	NQR0227-004X	FERRITE BEADS		
	K 701	NQR0227-004X	FERRITE BEADS		
	K 703	NQR0201-018X	INDUCTOR		
	K 704	NQR0201-018X	INDUCTOR		
	K 705	NQR0201-018X	INDUCTOR		
	K 706	NQR0201-018X	INDUCTOR		1,3,4,5,6,10
		NRSA63J-331X	MG RESISTOR		2
	K 708	NQR0227-004X	FERRITE BEADS		
	K 709	NQR0227-004X	FERRITE BEADS		
	K 718	QQR1183-001Z	FERRITE BEADS		2
	K 902	QQR1183-001Z	FERRITE BEADS		
	L 1	QQL231K-100Y	INDUCTOR		
	L 2	QQL231K-100Y	INDUCTOR		
	L 631	QQL231K-5R6Y	INDUCTOR		

△	Item	Parts number	Parts name	Remarks	Area
	L 632	QQL231K-5R6Y	INDUCTOR		
	L 709	QQL231K-2R2Y	INDUCTOR		
△	L 901	QQR1194-001	LINE FILTER		
	L 930	QQL26AK-220Z	INDUCTOR		
	L 952	QQL26AK-220Z	INDUCTOR		
	L 955	QQL26AK-220Z	INDUCTOR		
	L 957	QQL244K-100Z	INDUCTOR		
	L 959	QQL244K-100Z	INDUCTOR		
	L1701	QQL231K-R68Y	INDUCTOR I.M		
	P 901	QNC0091-001	AC INLET		
	PC901	PC123Y02	IC(PHOTO COUPLE		
	Q 1	2SC2060/QR/-T	TRANSISTOR		
	Q 631	KTA1267/G/-T	TR I/M		
	Q 691	KRC102S-X	DIGITAL.TR		
	Q 692	KRC102S-X	DIGITAL.TR		
	Q 696	KRA102S-X	DIGITAL.TR		
	Q 697	KRC102S-X	DIGITAL.TR		
	Q 709	KRC107S-X	DIGITAL.TR		
	Q 743	2SD2144S/VW/-T	TRANSISTOR	AMUTE1	
	Q 744	2SD2144S/VW/-T	TRANSISTOR		
	Q 753	2SD2144S/VW/-T	TRANSISTOR	AMUTE1	
	Q 754	2SD2144S/VW/-T	TRANSISTOR		
	Q 791	KRA102S-X	DIGITAL.TR		
	Q 951	KTD863/Y/-T	TRANSISTOR		
	Q 952	KRA104S-X	DIGITAL.TR		
	Q 966	KRC103S-X	TR I/M		
	Q 991	KTC3199/Y/-T	TR I/M		
	R 1	NRSA63J-910X	MG RESISTOR		
	R 20	NRSA63J-271X	MG RESISTOR		
	R 25	NRSA63J-100X	MG RESISTOR		
	R 629	NRSA63J-750X	MG RESISTOR		
	R 631	NRSA63J-151X	MG RESISTOR		
	R 632	NRSA63J-0R0X	MG RESISTOR		
	R 633	NRSA63J-151X	MG RESISTOR		
	R 634	NRSA63J-0R0X	MG RESISTOR		
	R 635	NRSA63J-221X	MG RESISTOR		
	R 636	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R 639	NRSA63J-750X	MG RESISTOR		
	R 649	NRSA63J-820X	MG RESISTOR		
	R 651	NRSA63J-360X	C RESISTOR		
	R 652	NRSA63J-360X	C RESISTOR		
	R 653	NRSA63J-360X	C RESISTOR		
	R 681	NRSA63J-301X	MG RESISTOR		
	R 685	NRSA63J-151X	MG RESISTOR		
	R 686	NRSA63J-151X	MG RESISTOR		
	R 687	NRSA63J-750X	MG RESISTOR		
	R 688	NRSA63J-750X	MG RESISTOR		
	R 694	NRSA63J-680X	MG RESISTOR		
	R 695	NRSA63J-750X	MG RESISTOR		
	R 696	NRSA63J-0R0X	MG RESISTOR		
	R 697	NRSA63J-102X	MG RESISTOR		
	R 698	NRSA63J-104X	MG RESISTOR		
	R 699	NRSA63J-301X	MG RESISTOR		
	R 701	NRSA63J-102X	MG RESISTOR		
	R 702	NRSA63J-472X	MG RESISTOR		
	R 703	NRSA63J-105X	MG RESISTOR		
	R 704	NRSA63J-102X	MG RESISTOR		
	R 706	NRSA63J-104X	MG RESISTOR		
	R 708	NRSA63J-101X	MG RESISTOR		
	R 709	NRSA63J-103X	MG RESISTOR		
	R 711	NRSA63J-100X	MG RESISTOR		
	R 713	NRSA63J-470X	MG RESISTOR		
	R 715	NRSA63J-470X	MG RESISTOR		

Explanation of area column

1 =XV-S300BK ver. B 4 =XV-S300BK ver. EN 6 =XV-S302SL ver. B 9 =XV-S302SL ver. EN
2 =XV-S300BK ver. E 5 =XV-S300BK ver. EV 7 =XV-S302SL ver. E 10 =XV-S302SL ver. EV
3 =XV-S300BK ver. EE 8 =XV-S302SL ver. EE

■ Electrical parts list (Main board)

Block No. 01

△	Item	Parts number	Parts name	Remarks	Area
	R 717	NRSA63J-220X	MG RESISTOR		
	R 721	NRSA63J-471X	MG RESISTOR		
	R 723	NRSA63J-471X	MG RESISTOR		
	R 724	NRSA63J-471X	MG RESISTOR		
	R 725	NRSA63J-471X	MG RESISTOR		
	R 728	NRSA63J-471X	MG RESISTOR		
	R 729	NRSA63J-471X	MG RESISTOR		
	R 731	NRSA63J-332X	MG RESISTOR		
	R 740	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 741	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 742	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 743	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 744	NRSA63J-362X	MG RESISTOR		
	R 745	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 746	NRSA63J-332X	MG RESISTOR		
	R 747	NRSA63J-362X	MG RESISTOR		
	R 748	NRSA63J-112X	MG RESISTOR		
	R 750	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 751	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R 752	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 753	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 754	NRSA63J-362X	MG RESISTOR		
	R 755	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 756	NRSA63J-332X	MG RESISTOR		
	R 757	NRSA63J-362X	MG RESISTOR		
	R 758	NRSA63J-112X	MG RESISTOR		
	R 761	NRSA63J-112X	MG RESISTOR		
	R 762	NRSA63J-681X	MG RESISTOR		
	R 763	NRSA63J-362X	MG RESISTOR		
	R 764	NRSA63J-183X	MG RESISTOR		
	R 765	NRSA63J-561X	MG RESISTOR		
	R 766	NRSA63J-273X	MG RESISTOR		
	R 767	NRSA63J-101X	MG RESISTOR		
	R 768	NRSA63J-103X	MG RESISTOR		
	R 769	NRSA63J-103X	MG RESISTOR		
	R 771	NRSA63J-112X	MG RESISTOR		
	R 772	NRSA63J-681X	MG RESISTOR		
	R 773	NRSA63J-362X	MG RESISTOR		
	R 774	NRSA63J-183X	MG RESISTOR		
	R 775	NRSA63J-561X	MG RESISTOR		
	R 776	NRSA63J-273X	MG RESISTOR		
	R 777	NRSA63J-101X	MG RESISTOR		
	R 778	NRSA63J-103X	MG RESISTOR		
	R 779	NRSA63J-103X	MG RESISTOR		
	R 780	NRSA63J-561X	MG RESISTOR		
	R 781	NRSA63J-562X	MG RESISTOR		
	R 782	NRSA63J-221X	MG RESISTOR		
	R 783	NRSA63J-221X	MG RESISTOR		
	R 786	NRSA63J-333X	MG RESISTOR		
	R 789	NRSA63J-0R0X	MG RESISTOR		
	R 790	NRSA63J-561X	MG RESISTOR		
	R 791	NRSA63J-562X	MG RESISTOR		
	R 792	NRSA63J-221X	MG RESISTOR		
	R 793	NRSA63J-221X	MG RESISTOR		
	R 795	NRSA63J-472X	MG RESISTOR		
	R 797	NRSA63J-473X	MG RESISTOR		
	R 801	NRSA63J-181X	MG RESISTOR		
	R 845	NRSA63J-431X	MG RESISTOR		
	R 846	NRSA63J-681X	MG RESISTOR		
	R 847	NRSA63J-112X	MG RESISTOR		
	R 848	NRSA63J-222X	MG RESISTOR		
	R 900	NRSA63J-391X	MG RESISTOR		
	R 901	QRL01DJ-683X	OMF RESISTOR	68K 5% 1/1W	
	R 903	QRE141J-100Y	C RESISTOR	10 5% 1/4W	

△	Item	Parts number	Parts name	Remarks	Area
	R 905	QRL027J-683	UNF OMF RESISTOR	68K 5% 1/2W	
	R 906	QRE141J-681Y	C RESISTOR	680 5% 1/4W	
	R 907	QRT022J-R47	OMF RESISTOR	5% 1/2W	
	R 908	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 910	QRZ9044-335	F RESISTOR	3.3M 1/0W	1,2,3,4,6,10
	R 952	NRSA63J-103X	MG RESISTOR		
	R 953	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
△	R 954	QRZ9005-100X	F RESISTOR	10 1/0W	
	R 955	NRSA63J-223X	MG RESISTOR		
	R 956	QRE141J-8R2Y	C RESISTOR	8.2 5% 1/4W	
	R 960	QRE141J-390Y	C RESISTOR	39 5% 1/4W	
	R 961	NRSA63J-681X	MG RESISTOR		
	R 963	NRSA63J-151X	MG RESISTOR		
	R 965	NRSA63J-103X	MG RESISTOR		
	R 970	NRSA63J-390X	MG RESISTOR		
	R 975	NRSA63J-472X	MG RESISTOR		
	R1704	NRSA63J-102X	MG RESISTOR		
	R1707	NRSA63J-222X	MG RESISTOR		
	R1708	NRSA63J-222X	MG RESISTOR		
	R1709	NRSA63J-102X	MG RESISTOR		
	R1710	NRSA63J-102X	MG RESISTOR		
	R1713	NRSA63J-101X	MG RESISTOR		
	R1714	NRSA63J-472X	MG RESISTOR		
	R1717	NRSA63J-471X	MG RESISTOR		
	R1721	NRSA63J-471X	MG RESISTOR		
	R1722	NRSA63J-471X	MG RESISTOR		
	R1723	NRSA63J-100X	MG RESISTOR		
	R1724	NRSA63J-101X	MG RESISTOR	TO C708	
	R1725	NRSA63J-102X	MG RESISTOR		
	R1727	NRSA63J-0R0X	MG RESISTOR		
	R1728	NRSA63J-222X	MG RESISTOR		
	R1729	NRSA63J-222X	MG RESISTOR		
	R1730	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R1731	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1732	QRE141J-100Y	C RESISTOR	10 5% 1/4W	
	R1750	NRSA63J-102X	MG RESISTOR		
	R1751	NRSA63J-472X	MG RESISTOR		
	R1752	NRSA63J-103X	MG RESISTOR		
	R1772	NRSA63J-331X	MG RESISTOR		1,3,4,5,6,10
		NRSA63J-0R0X	MG RESISTOR		2
	R1773	NRSA63J-820X	MG RESISTOR		
	R1775	NRSA63J-0R0X	MG RESISTOR		
	R1776	NRSA63J-0R0X	MG RESISTOR		
	S 691	QSW0454-001	SWITCH		
	S 692	QSW0454-001	SWITCH		
	S 801	QSW0651-001Z	TACT SWITCH		
	S 821	QSW0651-001Z	TACT SWITCH		
	S 831	QSW0651-001Z	TACT SWITCH		
	S 832	QSW0651-001Z	TACT SWITCH		
	S 833	QSW0651-001Z	TACT SWITCH		
	S 834	QSW0651-001Z	TACT SWITCH		
	S 835	QSW0651-001Z	TACT SWITCH		
△	T 901	QQS0149-001	SW TRANSF		
	X 701	QAX0667-001Z	RESONATOR I.M		

Explanation of area column

1	=XV-S300BK	ver. B	6	=XV-S302SL	ver. B
2	=XV-S300BK	ver. E	7	=XV-S302SL	ver. E
3	=XV-S300BK	ver. EE	8	=XV-S302SL	ver. EE
4	=XV-S300BK	ver. EN	9	=XV-S302SL	ver. EN
5	=XV-S300BK	ver. EV	10	=XV-S302SL	ver. EV

■ Electrical parts list (Servo control board)

Block No. 02

△	Item	Parts number	Parts name	Remarks	Area
	C 1	NCB31CK-104X	C CAPACITOR		
	C 2	NCB31CK-104X	C CAPACITOR		
	C 3	NCB31CK-104X	C CAPACITOR		
	C 4	NCB31CK-104X	C CAPACITOR		
	C 5	NCB31CK-104X	C CAPACITOR		
	C 6	NCB31CK-104X	C CAPACITOR		
	C 105	NEA70JM-476X	E.CAPACITOR		
	C 106	NEA70JM-476X	E.CAPACITOR		
	C 109	NCB21CK-154X	C.CAPA. C.M		
	C 110	NCS31HJ-221X	C.CAPA. C.M		
	C 111	NCB31CK-104X	C CAPACITOR		
	C 112	NCB31CK-104X	C CAPACITOR		
	C 113	NEA70JM-226X	E CAPACITOR		
	C 115	NCB31CK-104X	C CAPACITOR		
	C 116	NCB31CK-104X	C CAPACITOR		
	C 117	NCB31CK-473X	C CAPACITOR		
	C 118	NCB31CK-273X	C CAPACITOR		
	C 119	NCB31HK-561X	C CAPACITOR		
	C 120	NCB31HK-561X	C CAPACITOR		
	C 121	NCB31CK-104X	C CAPACITOR		
	C 122	NCS31HJ-120X	C.CAPA. C.M		
	C 123	NCB31CK-104X	C CAPACITOR		
	C 124	NCS31HJ-470X	C.CAPA. C.M		
	C 125	NCB31HK-271X	C CAPACITOR		
	C 126	NCB31CK-104X	C CAPACITOR		
	C 127	NCB31CK-104X	C CAPACITOR		
	C 128	NCB31CK-104X	C CAPACITOR		
	C 129	NCB31HK-472X	C CAPACITOR		
	C 135	NEA70JM-476X	E.CAPACITOR		
	C 137	NEA70GM-476X	E.CAPA. C.M.		
	C 138	NCB21CK-105X	C CAPACITOR		
	C 139	NCB21CK-105X	C CAPACITOR		
	C 141	NCB31CK-104X	C CAPACITOR		
	C 142	NCB31CK-104X	C CAPACITOR		
	C 143	NCB31CK-104X	C CAPACITOR		
	C 144	NCB31CK-103X	C CAPACITOR		
	C 146	NCB31CK-104X	C CAPACITOR		
	C 201	NEA70JM-226X	E CAPACITOR		
	C 203	NCB31CK-104X	C CAPACITOR		
	C 204	NCB31CK-104X	C CAPACITOR		
	C 205	NCB31HK-121X	C CAPACITOR		
	C 207	NCB31HK-391X	C CAPACITOR		
	C 208	NCB31HK-391X	C CAPACITOR		
	C 211	NCB31HK-223X	C CAPACITOR		
	C 212	NCB31CK-103X	C CAPACITOR		
	C 216	NCB30JK-105X	C CAPACITOR		
	C 217	NCB31CK-104X	C CAPACITOR		
	C 218	NCB30JK-105X	C CAPACITOR		
	C 251	NCB31CK-104X	C CAPACITOR		
	C 252	NEA71AM-336X	E CAPACITOR		
	C 253	NCB31CK-104X	C CAPACITOR		
	C 255	NCB31CK-223X	C CAPACITOR		
	C 256	NCB31CK-104X	C CAPACITOR		
	C 257	NCB31CK-104X	C CAPACITOR		
	C 258	NCB31CK-104X	C CAPACITOR		
	C 259	NCB31CK-104X	C CAPACITOR		
	C 260	NCB31CK-104X	C CAPACITOR		
	C 261	NCB31CK-104X	C CAPACITOR		
	C 262	NCB31CK-104X	C CAPACITOR		
	C 263	NCB31CK-104X	C CAPACITOR		
	C 264	NCB31CK-103X	C CAPACITOR		
	C 301	NCB31CK-104X	C CAPACITOR		
	C 302	NCB31CK-104X	C CAPACITOR		
	C 303	NCB31CK-104X	C CAPACITOR		
	C 304	NEA70GM-107X	E CAPACITOR		
	C 306	NEA70GM-107X	E CAPACITOR		

△	Item	Parts number	Parts name	Remarks	Area
	C 308	NEA70GM-107X	E CAPACITOR		
	C 310	NCB31CK-104X	C CAPACITOR		
	C 311	NCB31HK-561X	C CAPACITOR		
	C 312	NCB31HK-561X	C CAPACITOR		
	C 313	NCB31HK-561X	C CAPACITOR		
	C 314	NCB31HK-331X	C CAPACITOR		
	C 315	NCB31HK-471X	C CAPACITOR		
	C 316	NCB31HK-271X	C CAPACITOR		
	C 317	NCS31HJ-121X	C CAPACITOR		
	C 318	NCB31CK-104X	C CAPACITOR		
	C 319	NCB31HK-102X	C CAPACITOR		
	C 320	NCB31HK-102X	C CAPACITOR		
	C 321	NCB31HK-102X	C CAPACITOR		
	C 322	NCB31HK-562X	C CAPACITOR		
	C 323	NCB31HK-102X	C CAPACITOR		
	C 324	NCB31CK-104X	C CAPACITOR		
	C 325	NCS31HJ-470X	C.CAPA. C.M		
	C 326	NCB31CK-183X	C CAPACITOR		
	C 327	NCB31HK-102X	C CAPACITOR		
	C 328	NCB31CK-104X	C CAPACITOR		
	C 329	NCB31CK-103X	C CAPACITOR		
	C 330	NCB31CK-104X	C CAPACITOR		
	C 331	NCB31CK-103X	C CAPACITOR		
	C 332	NCB21CK-105X	C CAPACITOR		
	C 333	NCB31AK-154X	C CAPACITOR		
	C 334	NCB31CK-104X	C CAPACITOR		
	C 337	NCB31CK-104X	C CAPACITOR		
	C 338	NCB31CK-104X	C CAPACITOR		
	C 339	NCB31CK-104X	C CAPACITOR		
	C 340	NCB31CK-104X	C CAPACITOR		
	C 341	NCB31CK-104X	C CAPACITOR		
	C 342	NCB31CK-104X	C CAPACITOR		
	C 343	NCB31CK-104X	C CAPACITOR		
	C 344	NCB31CK-104X	C CAPACITOR		
	C 345	NCB31CK-104X	C CAPACITOR		
	C 346	NCB31CK-104X	C CAPACITOR		
	C 347	NCB31CK-104X	C CAPACITOR		
	C 348	NCB31CK-104X	C CAPACITOR		
	C 349	NCB31CK-104X	C CAPACITOR		
	C 350	NCB31CK-104X	C CAPACITOR		
	C 401	NEA70GM-476X	E.CAPA. C.M.		
	C 402	NCB31CK-104X	C CAPACITOR		
	C 403	NCB31CK-104X	C CAPACITOR		
	C 404	NCB31CK-104X	C CAPACITOR		
	C 405	NCB31CK-104X	C CAPACITOR		
	C 406	NCB31CK-104X	C CAPACITOR		
	C 407	NCB31CK-104X	C CAPACITOR		
	C 411	NCB31CK-104X	C CAPACITOR		
	C 450	NCB31CK-104X	C CAPACITOR		
	C 453	NCB31CK-104X	C CAPACITOR		
	C 454	NCB31CK-104X	C CAPACITOR		
	C 501	NCB31CK-104X	C CAPACITOR		
	C 502	NCB31CK-104X	C CAPACITOR		
	C 503	NCB31CK-104X	C CAPACITOR		
	C 504	NCB31CK-104X	C CAPACITOR		
	C 505	NCB31CK-104X	C CAPACITOR		
	C 506	NCB31CK-104X	C CAPACITOR		
	C 507	NCB31CK-104X	C CAPACITOR		
	C 508	NCB31CK-104X	C CAPACITOR		
	C 509	NCB31CK-104X	C CAPACITOR		
	C 510	NCB31CK-104X	C CAPACITOR		
	C 511	NCB31CK-104X	C CAPACITOR		
	C 512	NCB31CK-104X	C CAPACITOR		
	C 513	NCB31CK-104X	C CAPACITOR		
	C 514	NCB31CK-104X	C CAPACITOR		
	C 515	NCB31CK-104X	C CAPACITOR		

■ Electrical parts list (Servo control board)

Block No. 02

△	Item	Parts number	Parts name	Remarks	Area	△	Item	Parts number	Parts name	Remarks	Area
	C 516	NCB31CK-104X	C CAPACITOR				K 561	NQR0007-002X	FERRITE BEADS		
	C 517	NCB31CK-104X	C CAPACITOR				K 562	NQR0007-002X	FERRITE BEADS		
	C 518	NCB31CK-104X	C CAPACITOR				K 563	NQR0007-002X	FERRITE BEADS		
	C 520	NCB31CK-104X	C CAPACITOR				K 565	NQR0007-002X	FERRITE BEADS		
	C 522	NCB31CK-104X	C CAPACITOR				K 571	NQR0007-002X	FERRITE BEADS		
	C 524	NCB31CK-104X	C CAPACITOR				K 575	NQR0007-002X	FERRITE BEADS		
	C 525	NCB31CK-104X	C CAPACITOR				K 577	NQR0007-002X	FERRITE BEADS		
	C 526	NCB31CK-104X	C CAPACITOR				K 578	NQR0007-002X	FERRITE BEADS		
	C 527	NCB31CK-104X	C CAPACITOR				K 579	NQR0007-002X	FERRITE BEADS		
	C 528	NCB31CK-104X	C CAPACITOR				Q 101	KTA1001/Y/-X	TRANSISTOR		
	C 529	NCB31CK-104X	C CAPACITOR				Q 102	KTA1001/Y/-X	TRANSISTOR		
	C 530	NEA70GM-107X	E CAPACITOR				Q 103	DTA144EE-X	DIGI TRANSISTOR		
	C 531	NCB31CK-104X	C CAPACITOR				R 101	NRSA63J-333X	MG RESISTOR		
	C 533	NCB31CK-104X	C CAPACITOR				R 102	NRSA63J-223X	MG RESISTOR		
	C 534	NEA70GM-107X	E CAPACITOR				R 103	NRSA63J-223X	MG RESISTOR		
	C 535	NCB31CK-104X	C CAPACITOR				R 104	NRS125J-270X	MG RESISTOR		
	C 536	NCB31CK-103X	C CAPACITOR				R 105	NRS125J-270X	MG RESISTOR		
	C 539	NCB31CK-104X	C CAPACITOR				R 106	NRSA63J-273X	MG RESISTOR		
	C 540	NEA70GM-476X	E.CAPA. C.M.				R 107	NRSA63J-273X	MG RESISTOR		
	C 541	NCB31CK-104X	C CAPACITOR				R 108	NRSA63J-682X	MG RESISTOR		
	C 544	NCB31CK-104X	C CAPACITOR				R 109	NRSA63J-102X	MG RESISTOR		
	C 547	NCB31CK-104X	C CAPACITOR				R 110	NRSA63J-333X	MG RESISTOR		
	C 556	NEA70GM-107X	E CAPACITOR				R 111	NRVA63D-243X	RES. C.M		
	C 566	NCB31CK-104X	C CAPACITOR				R 112	NRSA63J-822X	MG RESISTOR		
	C 567	NEA70GM-476X	E.CAPA. C.M.				R 113	NRSA63J-103X	MG RESISTOR		
	C 571	NEA70JM-226X	E CAPACITOR				R 114	NRSA63J-0R0X	MG RESISTOR		
	C 572	NCB31CK-104X	C CAPACITOR				R 115	NRSA63J-0R0X	MG RESISTOR		
	C 573	NCB31CK-104X	C CAPACITOR				R 116	NRSA63J-0R0X	MG RESISTOR		
	CN101	QGF0522F1-30W	FFC CONNECTOR	PU			R 117	NRSA63J-0R0X	MG RESISTOR		
	CN201	QGF1016F2-15W	CONNECTOR	PU			R 119	NRSA63J-2R2X	MG RESISTOR		
	CN202	QGF1016F2-06W	CONNECTOR	PU			R 120	NRSA63J-2R2X	MG RESISTOR		
	CN502	QGB2027L1-10X	CONNECTOR	SYSTEM			R 125	NRSA63J-105X	MG RESISTOR		
	CN503	QGB2027L1-26X	CONNECTOR	SYSTEM			R 126	NRSA63J-105X	MG RESISTOR		
	D 101	RB521S-30	MG RESISTOR				R 127	NRSA63J-222X	MG RESISTOR		
	D 501	1SR154-400-X	DIODE				R 128	NRS125J-1R0X	MG RESISTOR		
	FW801	QUM123-11DGZ4	PARA RIBON WIRE	TO CN703			R 129	NRS125J-1R0X	MG RESISTOR		
	FW802	QUM125-09DGZ4	PARA RIBON WIRE	TO CN702			R 130	NRSA63J-182X	MG RESISTOR		
	IC101	AN8703FH-V	IC				R 201	NRSA63J-470X	MG RESISTOR		
	IC201	BA5983FM-X	IC				R 202	NRS125J-1R0X	MG RESISTOR		
	IC251	BA6664FM-X	LSI				R 203	NRSA63J-0R0X	MG RESISTOR		
	IC301	MN103S28EGA	IC				R 204	NRSA63J-273X	MG RESISTOR		
	IC401	MN102L62GLH1	IC	ATTENTION	1,3,5,8,10		R 205	NRSA63J-273X	MG RESISTOR		
		MN102L62GLH	IC	ATTENTION	2,4,6,7,9		R 206	NRSA63J-303X	MG RESISTOR		
	IC402	K3N5V1000F-J004	IC	ATTENTION	1,3,5,8,10		R 207	NRSA63J-303X	MG RESISTOR		
		K3N5V1000F-J001	IC	ATTENTION	2,4,6,7,9		R 208	NRSA63J-223X	MG RESISTOR		
	IC451	S-93C66AFJ-X	IC				R 209	NRSA63J-223X	MG RESISTOR		
	IC454	74VHC74MTC-X	IC				R 210	NRSA63J-242X	MG RESISTOR		
	IC455	74VHC00MTC-X	IC				R 211	NRSA63J-242X	MG RESISTOR		
	IC501	ZIVA-4.1-PB0	IC				R 212	NRSA63J-103X	MG RESISTOR		
	IC503	74VHC00MTC-X	IC				R 213	NRSA63J-103X	MG RESISTOR		
	IC504	K4S641632F-TC75	IC				R 214	NRSA63J-103X	MG RESISTOR		
	IC571	CY24203SC-X	IC				R 215	NRSA63J-103X	MG RESISTOR		
	K 101	NQR0007-002X	FERRITE BEADS				R 216	NRSA63J-912X	MG RESISTOR		
	K 301	NQR0007-002X	FERRITE BEADS				R 219	NRSA63J-183X	MG RESISTOR		
	K 302	NQR0007-002X	FERRITE BEADS				R 220	NRSA63J-183X	MG RESISTOR		
	K 303	NQR0007-002X	FERRITE BEADS				R 221	NRSA63J-682X	MG RESISTOR		
	K 304	NQR0007-002X	FERRITE BEADS				R 222	NRSA63J-103X	MG RESISTOR		
	K 401	NQR0007-002X	FERRITE BEADS				R 223	NRSA63J-912X	MG RESISTOR		
	K 402	NQR0007-002X	FERRITE BEADS				R 251	NRS125J-R47X	MG RESISTOR		
	K 501	NQR0007-002X	FERRITE BEADS				R 252	NRSA63J-2R2X	MG RESISTOR		
	K 502	NQR0007-002X	FERRITE BEADS				R 253	NRSA63J-0R0X	MG RESISTOR		
	K 504	NQR0201-001X	FERRITE BEADS				R 254	NRSA63J-203X	MG RESISTOR		
	K 505	NQR0269-001X	F.BEADS C.M				R 255	NRSA63J-103X	MG RESISTOR		
	K 506	NQR0007-002X	FERRITE BEADS				R 256	NRSA63J-470X	MG RESISTOR		

ATTENTION

Please exchange "IC401" and "IC402" absolutely by the pair.

Explanation of area column

1 =XV-S300BK ver. B	5 =XV-S300BK ver. EV	9 =XV-S302SL ver. EN
2 =XV-S300BK ver. E	6 =XV-S302SL ver. B	10 =XV-S302SL ver. EV
3 =XV-S300BK ver. EE	7 =XV-S302SL ver. E	
4 =XV-S300BK ver. EN	8 =XV-S302SL ver. EE	

Electrical parts list (Servo control board) Block No. 02

Item	Parts number	Parts name	Remarks	Area
R 258	NRSA63J-0R0X	MG RESISTOR		
R 259	NRSA63J-103X	MG RESISTOR		
R 301	NRSA63J-473X	MG RESISTOR		
R 302	NRSA63J-473X	MG RESISTOR		
R 303	NRSA63J-473X	MG RESISTOR		
R 304	NRSA63J-473X	MG RESISTOR		
R 305	NRSA63J-473X	MG RESISTOR		
R 306	NRSA63J-473X	MG RESISTOR		
R 307	NRSA63J-473X	MG RESISTOR		
R 308	NRSA63J-0R0X	MG RESISTOR		
R 309	NRSA63J-473X	MG RESISTOR		
R 313	NRSA63J-473X	MG RESISTOR		
R 317	NRSA63J-473X	MG RESISTOR		
R 319	NRSA63J-473X	MG RESISTOR		
R 320	NRSA63J-0R0X	MG RESISTOR		
R 321	NRSA63J-473X	MG RESISTOR		
R 322	NRSA63J-0R0X	MG RESISTOR		
R 323	NRSA63J-473X	MG RESISTOR		
R 324	NRSA63J-473X	MG RESISTOR		
R 325	NRSA63J-123X	MG RESISTOR		
R 326	NRSA63J-473X	MG RESISTOR		
R 327	NRSA63J-105X	MG RESISTOR		
R 328	NRSA63J-153X	MG RESISTOR		
R 329	NRSA63J-473X	MG RESISTOR		
R 330	NRSA63J-473X	MG RESISTOR		
R 331	NRSA63J-473X	MG RESISTOR		
R 332	NRSA63J-102X	MG RESISTOR		
R 333	NRSA63J-682X	MG RESISTOR		
R 334	NRSA63J-102X	MG RESISTOR		
R 336	NRSA63J-273X	MG RESISTOR		
R 337	NRSA63J-273X	MG RESISTOR		
R 338	NRSA63J-472X	MG RESISTOR		
R 339	NRSA63J-472X	MG RESISTOR		
R 340	NRSA63J-103X	MG RESISTOR		
R 341	NRSA63J-562X	MG RESISTOR		
R 402	NRSA63J-472X	MG RESISTOR		
R 403	NRSA63J-0R0X	MG RESISTOR		3,8
R 404	NRSA63J-0R0X	MG RESISTOR		3,8
R 405	NRSA63J-0R0X	MG RESISTOR		1,2,4,5,6,10
R 406	NRSA63J-0R0X	MG RESISTOR		
R 411	NRSA63J-472X	MG RESISTOR		
R 413	NRSA63J-472X	MG RESISTOR		
R 414	NRSA63J-472X	MG RESISTOR		
R 421	NRSA63J-0R0X	MG RESISTOR		
R 422	NRSA63J-472X	MG RESISTOR		
R 423	NRSA63J-472X	MG RESISTOR		
R 424	NRSA63J-472X	MG RESISTOR		
R 427	NRSA63J-0R0X	MG RESISTOR		
R 428	NRSA63J-472X	MG RESISTOR		
R 431	NRSA63J-472X	MG RESISTOR		
R 432	NRSA63J-472X	MG RESISTOR		
R 453	NRSA63J-102X	MG RESISTOR		
R 501	NRSA63J-102X	MG RESISTOR		
R 502	NRSA63J-472X	MG RESISTOR		
R 504	NRSA63J-330X	MG RESISTOR		
R 506	NRSA63J-330X	MG RESISTOR		
R 507	NRSA63J-330X	MG RESISTOR		
R 508	NRSA63J-330X	MG RESISTOR		
R 509	NRSA63J-330X	MG RESISTOR		
R 510	NRSA63J-330X	MG RESISTOR		
R 511	NRSA63J-330X	MG RESISTOR		
R 512	NRSA63J-330X	MG RESISTOR		
R 513	NRSA63J-330X	MG RESISTOR		
R 514	NRSA63J-330X	MG RESISTOR		

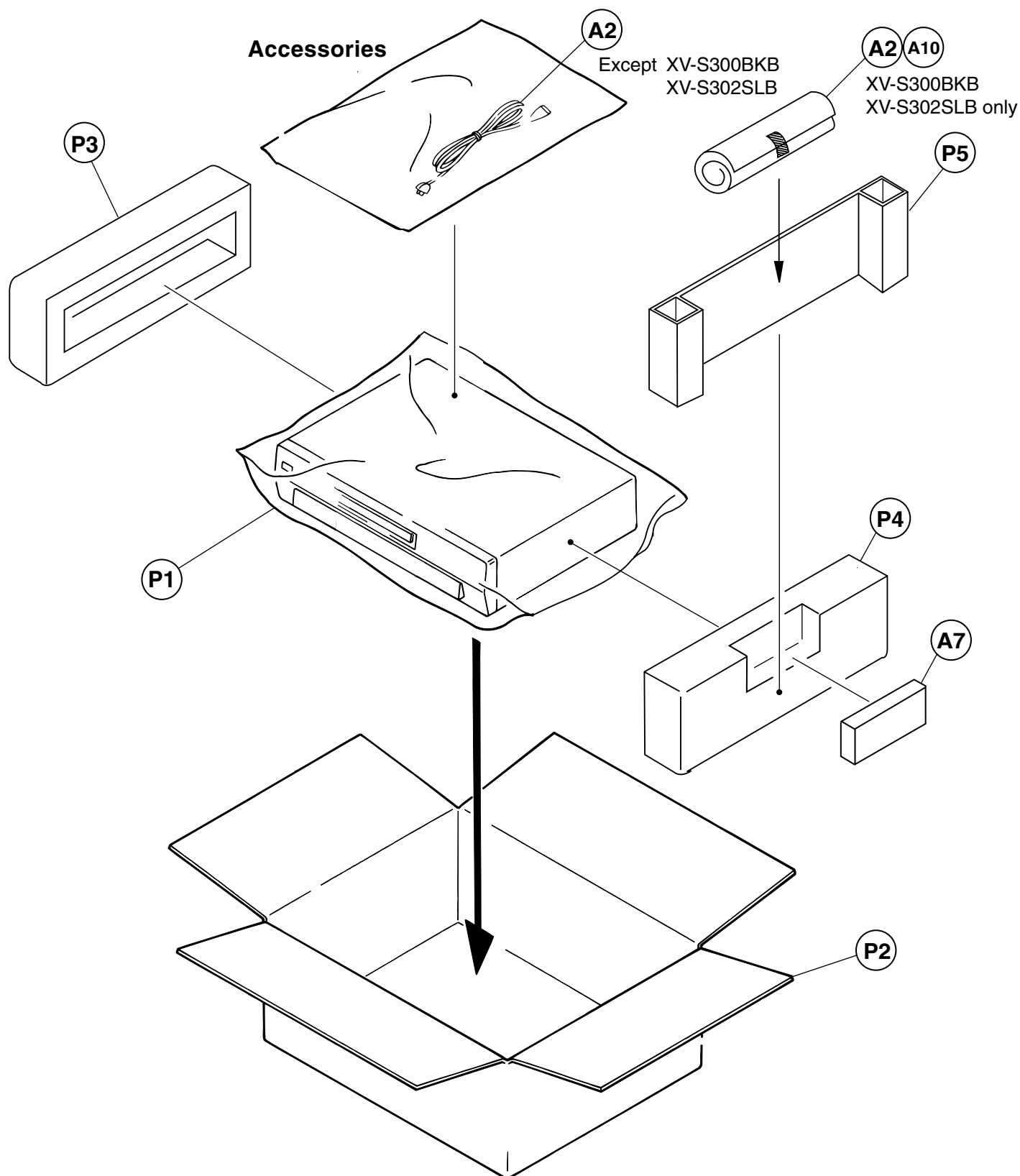
Item	Parts number	Parts name	Remarks	Area
R 515	NRSA63J-330X	MG RESISTOR		
R 516	NRSA63J-330X	MG RESISTOR		
R 517	NRSA63J-330X	MG RESISTOR		
R 518	NRSA63J-330X	MG RESISTOR		
R 519	NRSA63J-330X	MG RESISTOR		
R 520	NRSA63J-330X	MG RESISTOR		
R 521	NRSA63J-330X	MG RESISTOR		
R 522	NRSA63J-330X	MG RESISTOR		
R 524	NRSA63J-181X	MG RESISTOR		
R 527	NRSA63J-181X	MG RESISTOR		
R 528	NRSA63J-102X	MG RESISTOR		
R 529	NRSA63J-181X	MG RESISTOR		
R 532	NRSA63J-102X	MG RESISTOR		
R 533	NRSA63J-330X	MG RESISTOR		
R 534	NRSA63J-330X	MG RESISTOR		
R 535	NRSA63J-330X	MG RESISTOR		
R 536	NRSA63J-330X	MG RESISTOR		
R 537	NRSA63J-330X	MG RESISTOR		
R 538	NRSA63J-330X	MG RESISTOR		
R 539	NRSA63J-330X	MG RESISTOR		
R 540	NRSA63J-330X	MG RESISTOR		
R 541	NRSA63J-0R0X	MG RESISTOR		
R 542	NRSA63J-0R0X	MG RESISTOR		
R 543	NRSA63J-0R0X	MG RESISTOR		
R 545	NRSA63J-472X	MG RESISTOR		
R 546	NRSA63J-181X	MG RESISTOR		
R 547	NRSA63J-222X	MG RESISTOR		
R 548	NRSA63J-332X	MG RESISTOR		
R 551	NRSA63J-0R0X	MG RESISTOR		2,4,6,7,9
R 552	NRSA63J-0R0X	MG RESISTOR		
R 555	NRSA02J-0R0X	MG RESISTOR		
R 571	NRSA63J-330X	MG RESISTOR		
R 572	NRSA63J-0R0X	MG RESISTOR		
R 573	NRSA63J-0R0X	MG RESISTOR		
R 575	NRSA63J-103X	MG RESISTOR		
R 576	NRSA63J-103X	MG RESISTOR		
R 577	NRSA63J-470X	MG RESISTOR		
X 571	NAX0550-001X	CRYSTAL		

Explanation of area column
1 =XV-S300BK ver. B
2 =XV-S300BK ver. E
3 =XV-S300BK ver. EE
4 =XV-S300BK ver. EN
5 =XV-S300BK ver. EV
6 =XV-S302SL ver. B
7 =XV-S302SL ver. E
8 =XV-S302SL ver. EE
9 =XV-S302SL ver. EN
10 =XV-S302SL ver. EV

Packing materials and accessories parts list

Block No. M4MM

Block No. M5MM



■ Packing list

Block No. M4MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	P 1	QPC06005515P	POLY BAG	1		
	P 2	GN10021-001A	PACKING CASE	1		1
		GN10020-003A	PACKING CASE	1		7,9,10
		GN10020-001A	PACKING CASE	1		2,4,5
		GN10020-012A	PACKING CASE	1		3
		GN10021-002A	PACKING CASE	1		6
		GN10020-007A	PACKING CASE	1		8
	P 3	GN20016-001A	PACKING PAD(L)	1		
	P 4	GN20017-001A	PACKING PAD(R)	1		
	P 5	GN30046-001A	SHEET ASSY	1		1,6

■ Accessories list

Block No. M5MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	A 1	GNT0013-006A	INST BOOK	1		1,6
		GNT0013-009A	INST BOOK	1		5,10
		GNT0013-007A	INST BOOK	1		2,7
		GNT0013-010A	INST BOOK	1		3,8
		GNT0013-017A	INST BOOK	1		4,9
		GNT0013-008A	INST BOOK	1		4,9
⚠	A 2	QMPP060-183-JD	POWER CORD	1		1,6
⚠		QMPL150-183-JC	POWER CORD	1		2,3,4,5,7,8,9,10
	A 3	BT-54008-2	WARRANTY CARD	1		1,2,4,6,7,9
		BT-54012-2	WARRANTY CARD	1		3,8
	A 4	VNA3000-204	REGIST.CARD	1		1,6
	A 6	QAM0328-001	AV CORD 3P	1		
	A 7	RM-SXV001A	REMOCON UNIT	1		
	A 8	-----	BATTERY	2		
	A 9	QPC02504015P	POLY BAG	1		
	A 10	QPC02503510P	POLY BAG	1		1,6

Explanation of area column

1 =XV-S300BK	ver. B	6 =XV-S302SL	ver. B
2 =XV-S300BK	ver. E	7 =XV-S302SL	ver. E
3 =XV-S300BK	ver. EE	8 =XV-S302SL	ver. EE
4 =XV-S300BK	ver. EN	9 =XV-S302SL	ver. EN
5 =XV-S300BK	ver. EV	10 =XV-S302SL	ver. EV