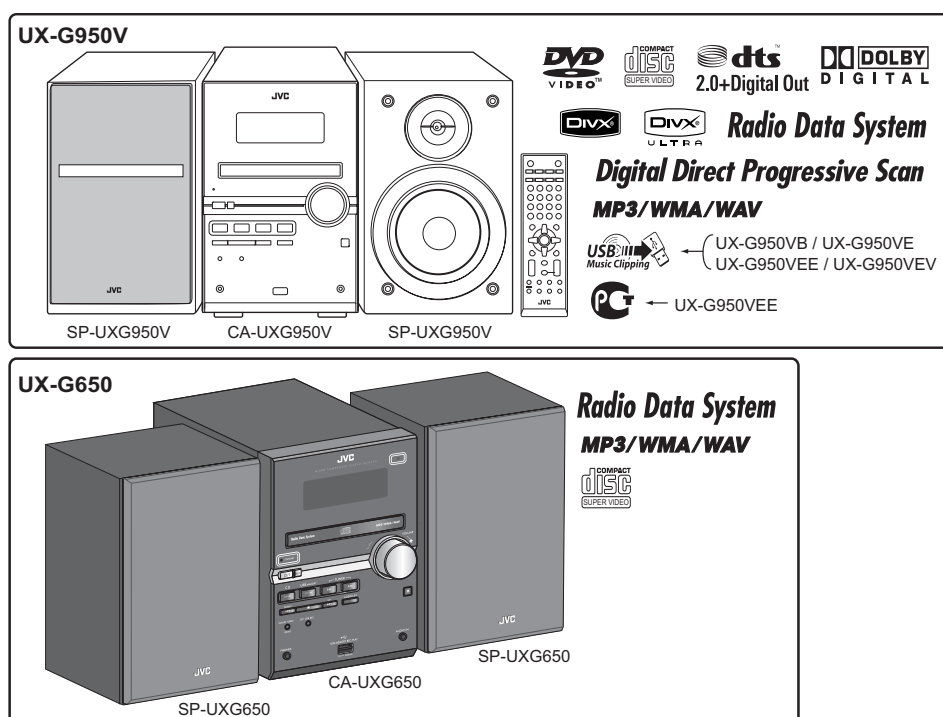


JVC

SERVICE MANUAL

MICRO COMPONENT SYSTEM

**UX-G950VB, UX-G950VE, UX-G950VEN,
UX-G950VEV, UX-G950VEE, UX-G650B,
UX-G650E, UX-G650EN, UX-G650EV**



Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)
Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)

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SPECIFICATION

UX-G950V

Amplifier section - CA-UXG950V			
Output Power		160 W (80 W + 80 W) at 6 Ω (10% THD)	
Audio Input	AUDIO IN		Stereo min. (ø 3.5 mm)
			500 mV/47 kΩ (at “IN_LVL1”)
			250 mV/47 kΩ (at “IN_LVL2”)
			125 mV/47 kΩ (at “IN_LVL3”)
Audio input/output	AV-Scart	Input: TV Sound only	
	SUBWOOFER OUT	500 mV/10 kΩ	
Digital output	OPTICAL DIGITAL OUT		-21 dBm to -15 dBm (660 nm ±30 nm)
Digital input			USB MEMORY REC/PLAY
AV (SCART)	Color system		PAL (interlaced/progressive)
	Composite video		1 V(p-p)/75 Ω
	S-VIDEO	Y (luminance)	1 V(p-p)/75 Ω
		C (chrominance, burst)	0.3 V(p-p)/75 Ω
	RGB		0.7 V(p-p)/75 Ω
	VIDEO OUT (COMPONENT)	(Y)	1 V(p-p)/75 Ω
		(PB/PR)	0.7 V(p-p)/75 Ω
Speaker impedance			6 Ω - 16 Ω
Tuner section			
FM tuning range			87.50 MHz - 108.00 MHz
AM (MW) tuning range			522 kHz - 1 629 kHz
Disc player section			
Playable disc	• DVD Video/CD/VCD/SVCD/		
	• CD-R/CD-RW (CD/SVCD/VCD/MP3/WMA/WAV/JPEG/MPEG-1/MPEG-2/DivX format)		
	• DVD-R/-RW (DVD-VR/DVD Video/MP3/WMA/WAV/JPEG/MPEG-1/MPEG-2/DivX format)		
	• +R/+RW (DVD Video/MP3/WMA/WAV/JPEG/MPEG-1/MPEG-2/DivX format)		
	• DVD-ROM (MP3/WMA/WAV format)		
Dynamic range			80 dB
Horizontal resolution			500 lines
Wow and flutter			Immeasurable
USB section			
Playable files			MP3/WMA/WAV/JPEG/MPEG-1/MPEG-2/DivX format
USB specification			Compatible with USB 2.0 Full Speed
Compatible device			Mass storage class
Compatible system			FAT16, FAT32
Bus power supply			DC 5 V=500 mA
General			
Power requirements			AC 230 V~, 50 Hz
Power consumption	155 W (at operation)		
	18 W (at standby)		
	1 W or less (at ECO mode)		
Dimensions (approx.)			166 mm × 252 mm × 304 mm (W/H/D)
Mass (approx.)			5.4 kg

Speakers - SP-UXG950V		
Speaker units	Tweeter	4 cm cone x 1
	Woofer	12 cm cone x 1
Impedance		6 Ω
Dimensions (approx.)		160 mm x 250 mm x 179 mm (W/H/D)
Mass (approx.)		2.2 kg each

Specifications and appearance are subject to change without prior notice.

UX-G650

Amplifier section		
OUTPUT POWER		120 W (60 W + 60 W) at 6 Ω (10% THD)
Speakers/Impedance		6 Ω - 16 Ω
Audio input	AUDIO IN	500 mV/47 kΩ (at “IN LVL1”)
		250 mV/47 kΩ (at “IN LVL2”)
		125 mV/47 kΩ (at “IN LVL3”)
Digital input		USB MEMORY REC/PLAY
Tuner section		
FM tuning range		87.50 MHz - 108.00 MHz
AM (MW) tuning range		522 kHz - 1629 kHz
Disc player section		
Dynamic range		88 dB
Signal-to-noise ratio		85 dB
Wow and flutter		Immeasurable
USB storage		
USB specification		Compatible with USB 2.0 Full Speed
Compatible device		Mass storage class
Compatible file system		FAT16, FAT32
Bus power supply		Max. 500 mA
Speakers		
Speaker units	4 cm cone x 1	
	12 cm cone x 1	
Impedance		
Dimensions (approx.)		160 mm x 250 mm x 179 mm (W/H/D)
Mass (approx.)		2.2 kg each
General		
Power requirements		AC 230 V~, 50 Hz
Power supply to USB mass storage class device		DC 5 V=500 mA
Power consumption	130 W (power on)	
	16 W (standby mode)	
	1 W or less (ECO Mode)	
Dimensions (W x H x D)		166 mm x 252 mm x 304 mm
Mass		4.9 kg

Specifications and appearance are subject to change without prior notice.

SECTION 1

PRECAUTION

1.1 Safety Precautions

- (1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (▲) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- (4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

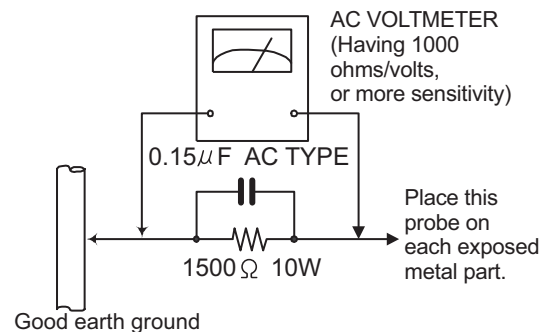
(5) Leakage shock hazard testing

After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000Ω per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC

voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

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

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.

Therefore, pay attention to such burrs in the case of pre-forming repair of this system.

1.4 Critical parts for safety

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

1.5 Preventing static electricity

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

1.5.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products.

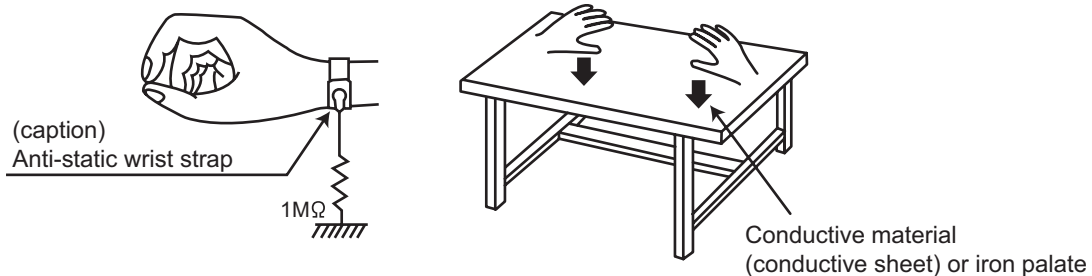
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench

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

(2) Ground yourself

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



(3) Handling the optical pickup

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

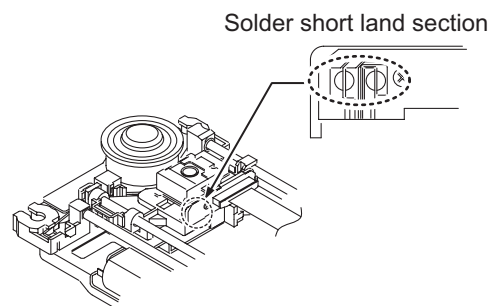
1.6 Handling the traverse unit (optical pickup)

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

1.7 Attention when traverse unit is decomposed

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

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



1.8 Important for laser products

1.CLASS 1 LASER PRODUCT

2.CAUTION :

(For U.S.A.) Visible and/or invisible class II laser radiation when open. Do not stare into beam.

(Others) Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.

3.CAUTION : Visible and/or invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

4.CAUTION : This laser product uses visible and/or 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.

(For U.S.A.)

CAUTION : Visible and/or invisible class II laser radiation when open. Do not stare into beam.

(Others)

CAUTION : Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments

ACHTUNG: Sichtbare und/oder unsichtbare Laserstrahlung der Klasse 1M bei offenen Abdeckungen. Nicht direkt mit optischen Instrumenten betrachten.

ATTENTION: Rayonnement laser visible et/ou invisible de classe 1M une fois ouvert. Ne pas regarder directement avec des instruments optiques.

VOORZICHTIG: Zichtbare en/of onzichtbare klasse 1M laserstralen indien geopend. Bekijk niet direct met optische instrumenten.

ATTENZIONE: Radiazione laser in classe 1M visibile e/o invisibile quando aperto. Non osservare direttamente con strumenti ottici.

VARNING: Synlig och/eller osynlig laserstrålning, klass 1M, när denna del är öppnad. Betrakta ej strålen med optiska instrument.

VARO! Avattaessa olet alttiina nakymäälle ja/tai näkymättömälle luokan 1M lasersäteilylle. Älä tarkastele sitä optisen laitteen läpi.

ADVASEL: Synlig og/eller usynlig klasse 1M-laserstråling ved åbning. Se ikke direkte med optiske instrumenter.

AVISO: Radiación láser de clase 1M visible y/o invisible cuando está abierto. No mirar directamente con instrumental óptico.

PRECAUÇÃO: Radiação laser de classe 1M visível e/ou invisível quando aberto. Não olhe diretamente com instrumentos ópticos.

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

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



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

PRECAUÇÃO: Radiação laser de classe 1M visível e/ou invisível quando aberto. Não olhe diretamente com instrumentos ópticos.

ПРЕДУПРЕЖДЕНИЕ: В открытом состоянии происходит видимое и/или невидимое излучение лазера класса 1M. Не смотрите непосредственно в оптические инструменты.

UWAGA: Otwarcie spowoduje narażenie na widzialne i/lub niewidzialne promieniowanie lasera klasy 1M. Nie patrzeć bezpośrednio w przyrządy optyczne.

UPOZORNĚNÍ: Při otevření vydává viditelné popř. neviditelné laserové ozáření třídy 1M. Nedívejte se do otvoru přímo s optickými nástroji.

FIGYELMEZTETÉS: Látható és/vagy láthatatlan 1M osztályú sugárzás nyitott állapotban. Ne nézze közvetlenül optikai műszerekkel.

注意 : 打開蓋板可能會產生可見或不可見的 1M 級鐳射。不要使用光學儀器直接進行窺視。

注意 : 打开盖板可能会产生可见或不可见的 1M 级辐射。不要使用光学仪器直接进行窥视。

تنبيه: يوجد إشعاع ليزري مرئي و/أو غير مرئي من الفئة 1M عندما يكون الجهاز مفتوحاً. تجنب النظر مباشرة داخل الجهاز باستخدام أدوات بصرية.

احتياط: هنگامی که باز گردد، تشعشع مرئی و یا نامرئی کلاس 1M لیزر وجود دارد. با لوازم چشمی مستقیماً به آن نگاه نکنید.

주의: 개방하면 가시 및/또는 비가시 클래스 1M 레이저 방사선이 나옵니다. 광학 기구로 직접 들여다보지 마십시오.

REPRODUCTION AND POSITION OF LABELS and PRINT WARNING LABEL and PRINT



CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	AVISO RADIACIÓN LASER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	VARNING SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	注意 ここを覗くと可視 及び/または不可視 のクラス1M レーザー放射が 出ます。 光学装置で直接 覗かないでください。 (JPN)	CAUTION VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG) LV44603-003A
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SECTION 2 SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3 DISASSEMBLY

3.1 Main body (Used figure are UX-G950VE)

3.1.1 Removing the Metal cover (See Fig.1, 2)

- (1) Remove the two screws **A** attaching the Heat sink cover. (See Fig.1)
- (2) Remove the five screws **B** attaching the Metal cover. (See Fig.1)
- (3) Remove the two screws **C** attaching the both side of Metal cover. (See Fig.2)

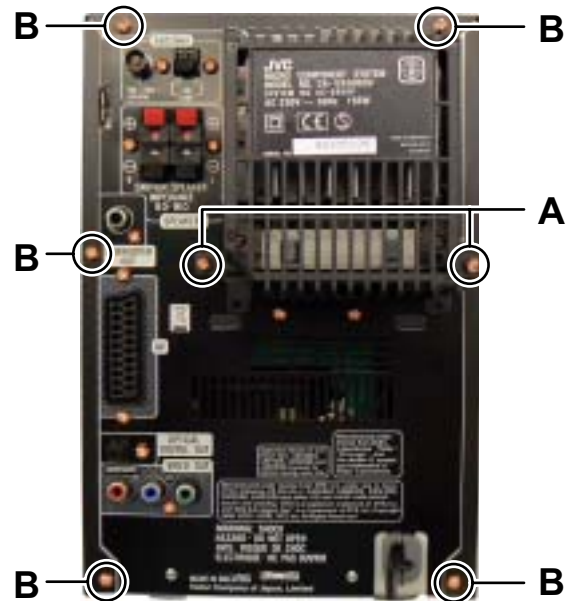


Fig.1



Fig.2

3.1.2 Removing the Front panel (see Fig.3 to 5)

- (1) Disconnect the card wire from Front panel connected to connector [CN330](#) of the Micom board. (See fig.3)
- (2) Remove the two screws **D** attaching the both side of Front panel. (See Fig.4)
- (3) Disengage two hooks **a** engaged Front panel. (See Fig.4)
- (4) Remove the two screws **E** attaching the Front panel. (See Fig.5)
- (5) Disengage one hook **b** engaged Front panel. (See Fig.5)

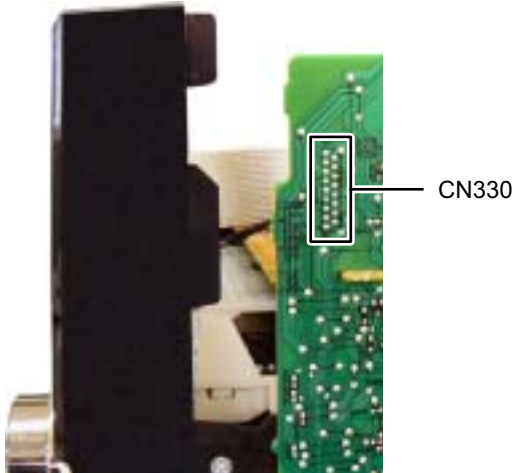


Fig.3

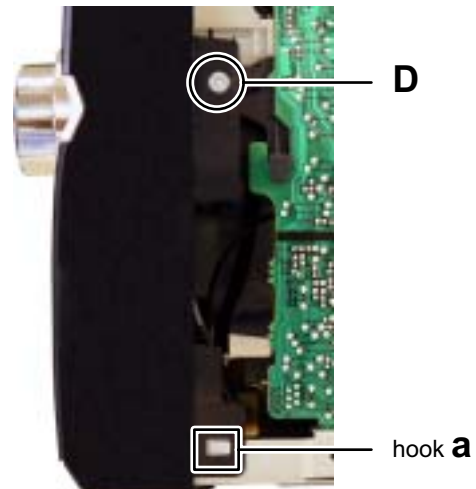


Fig.4

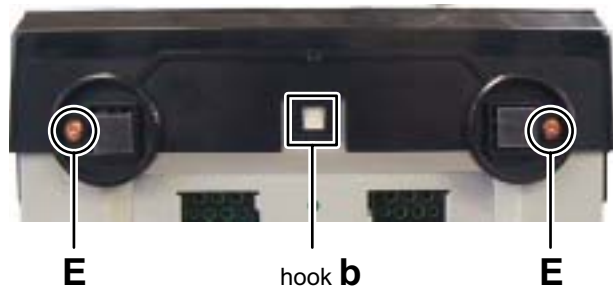


Fig.5

3.1.3 Removing the Tuner pack (See Fig.6, 7)

- (1) Disconnect the card wire from Tuner pack connected to connector [CN338](#) of the Micom board. (See Fig.6)
- (2) Remove the two screws **F** attaching the Tuner pack. (See Fig.7)

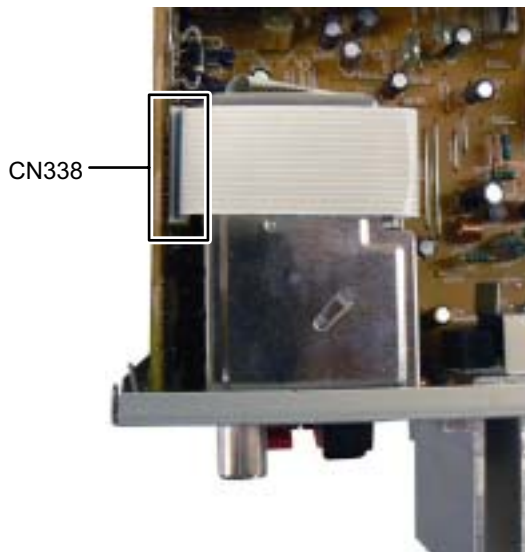


Fig.6

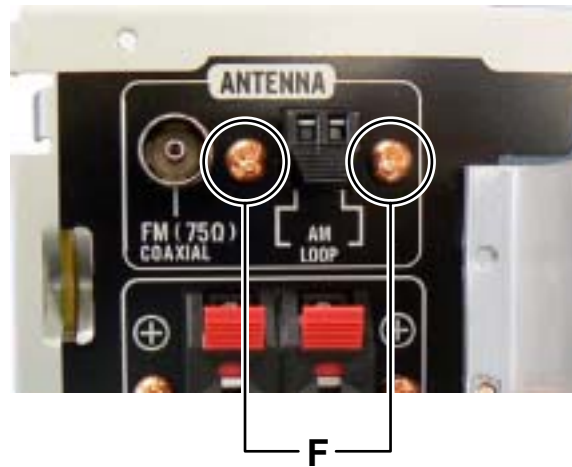


Fig.7

3.1.4 Removing the Amp board (See Fig.8 to 10)

- (1) Disconnect the Connector wire from Front jack board connected to connector **CN201** of the Amp board. (See Fig.8)
- (2) Disconnect the card wire from Micom board connected to connector **CN204** of the Amp board. (See Fig.8)
- (3) Disconnect the flat wires connected to connectors **CN207** and **CN208** of the Amp board. (See Fig.8)
- (4) Disconnect the card wire from Micom board connected to connector **CN205** of the Amp board. (See Fig.8)
- (5) Disconnect the card wire from DVD mechanism connected to connector **CN213** of the Amp board. (See Fig.8)
- (6) Disconnect the flat wire from Front jack board connected to connector **CN203** of the Amp board. (See Fig.8)
- (7) Disconnect the connector wire from Power transformer connected to connector **CN209** of the Amp board. (See Fig.8)
- (8) Disconnect the flat wire s from Power board connected to connectors **CN210**, **CN211** and **CN212** of the Amp board. (See Fig.8)
- (9) Disconnect the connector wire from FAN connected to connector **CN206** of the Amp board. (See Fig.8)
- (10) Remove the two screws **G** attaching the Amp board. (See Fig.8)
- (11) Remove the two screws **H** attaching the Heat sink bracket. (See Fig.9)
- (12) Remove the one screw **J** attaching the Amp board. (See Fig.9)
- (13) Remove the two screws **K** attaching the Speaker terminal. (See Fig.10)

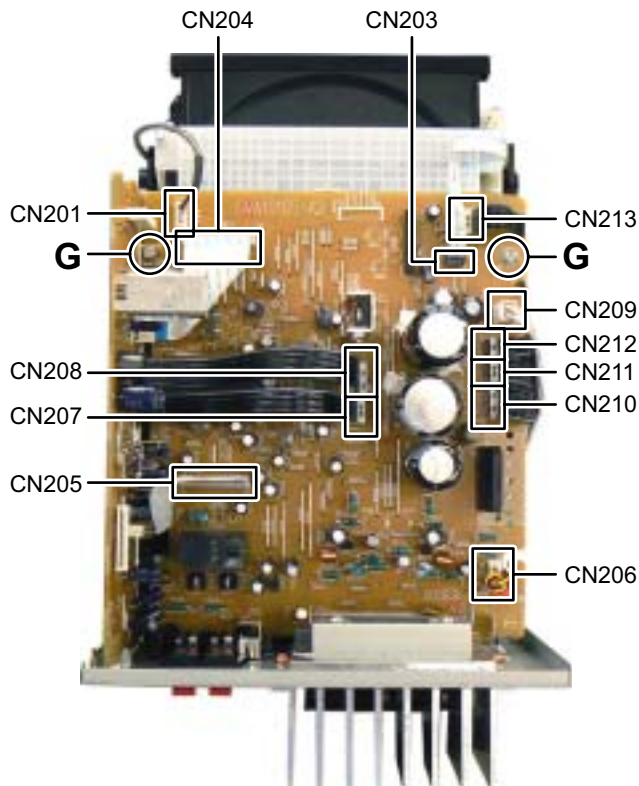


Fig.8

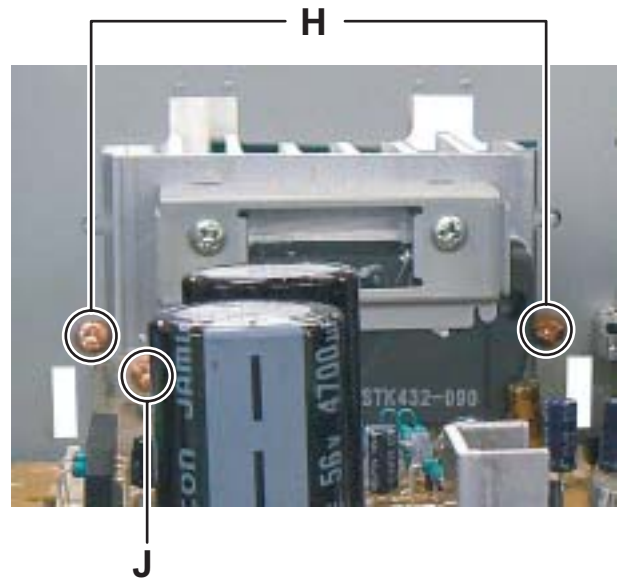


Fig.9

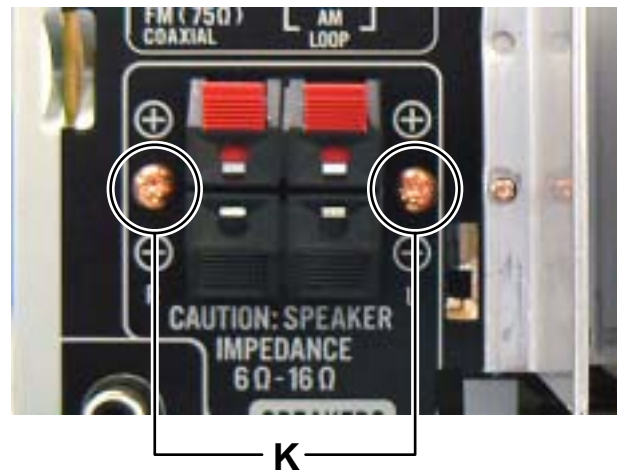


Fig.10

3.1.5 Removing the Rear panel (See Fig.11)

- (1) Remove the seven screws L attaching the Rear panel.

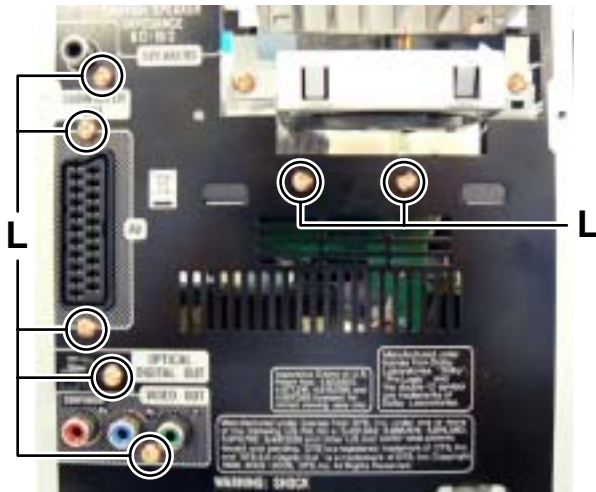
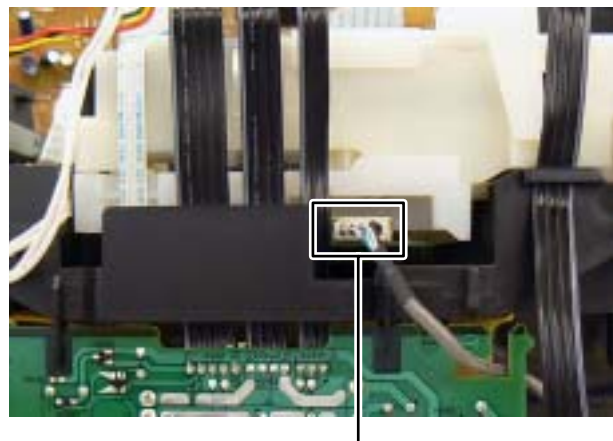


Fig.11

3.1.6 Removing the DVD mechanism (See Fig.12, 13)

- (1) Disconnect the connector wire from Front jack board connected to connector [CN811](#) of the Front end board. (See Fig.12)
- (2) Disconnect the card wires connected to connectors [CN345](#), [CN353](#) and [CN361](#) of the Micom board. (See Fig.13)



CN811

Fig.12

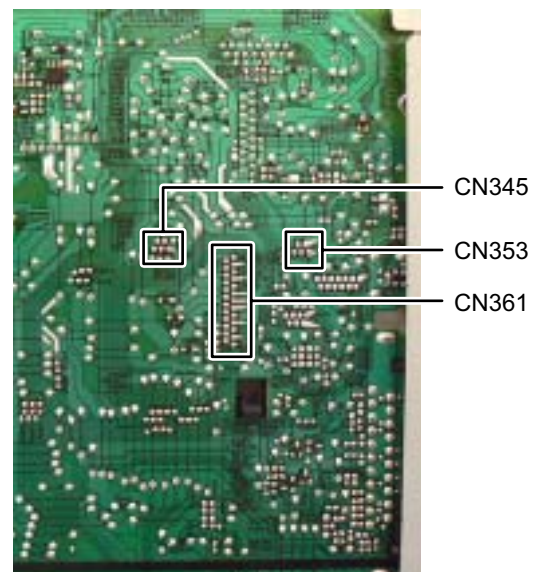


Fig.13

3.1.7 Removing the Micom board (See Fig.14)

- (1) Remove the two screws **M** attaching the Micom board.

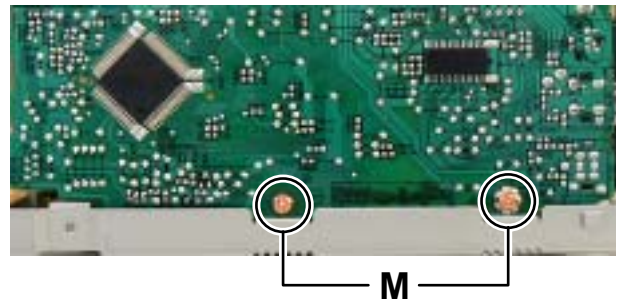


Fig.14

3.1.8 Removing the Front jack board (See Fig.15)

- (1) Remove the three screws **N** attaching the Front jack board.

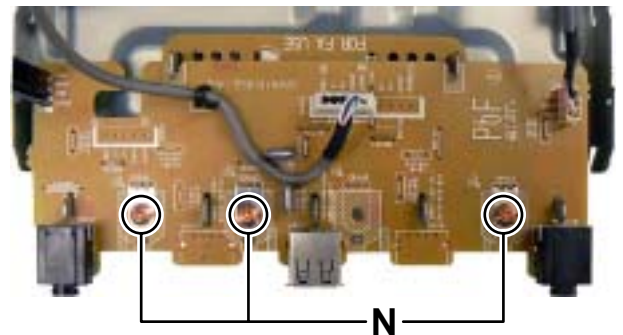


Fig.15

3.1.9 Removing the Power board (See Fig.16)

- (1) Disconnect the connector wires from Power transformer connected to connectors [CN800](#), [CN804](#) and [CN805](#) of the Power board.
- (2) Remove the two screws **P** attaching the power board.

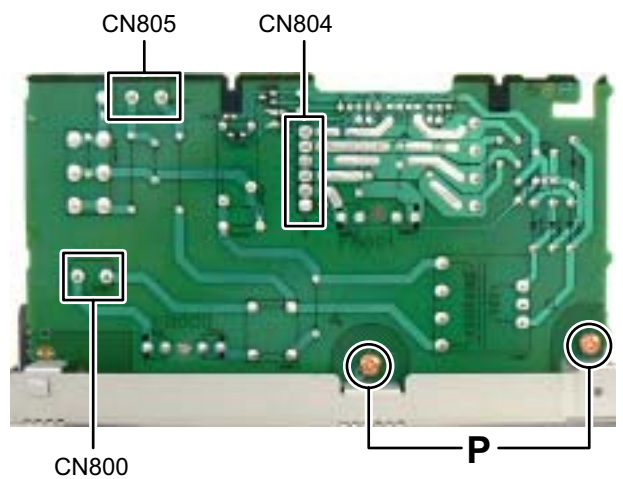


Fig.16

3.1.10 Removing the FL board (See Fig.17)

- (1) Disengage four hooks **c** engaged FL board.

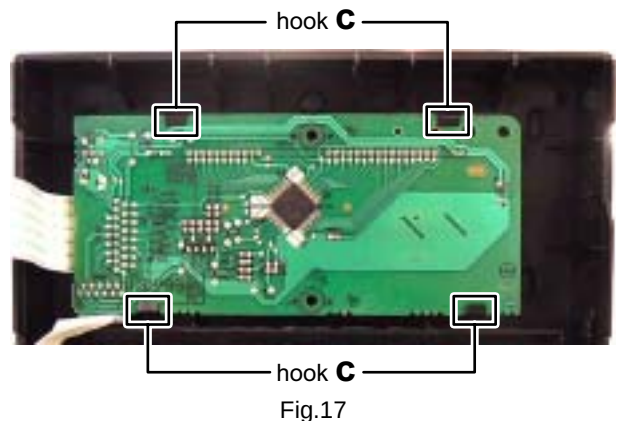


Fig.17

3.1.11 Removing the Function board (See Fig.18)

- (1) Remove the Volume knob.
- (2) Remove the nine screws **Q** attaching the Function board.

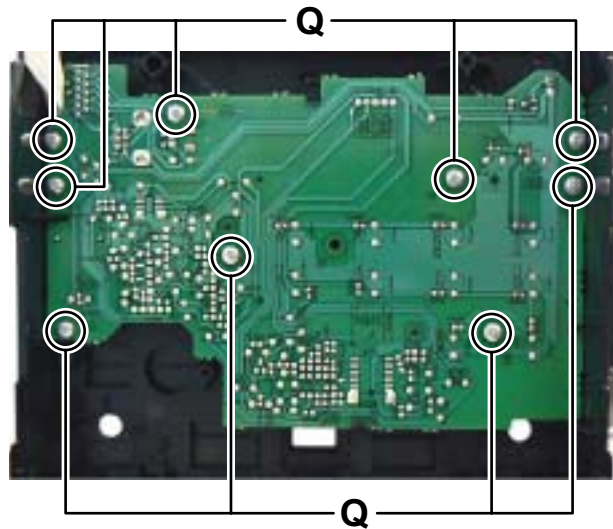


Fig.18

3.2 DVD mechanism

3.2.1 Removing the traverse mechanism

(See Fig.1 to 6)

- (1) Remove the two screws **A** attaching the tramecha holder from top side of DVD mechanism assembly. (See Fig.1)
- (2) Remove the two screws **B** attaching the DVD module board. (See Fig.2)
- (3) Remove the four screws **C** attaching the CB holder and take out it. (See Fig.3)
- (4) Remove the four screws **D** attaching the traverse mechanism. (See Fig.4)
- (5) Solder the solder part of DVD pickup up. (See Fig.5)
- (6) Disconnect the card wire from [CN101](#) and [CN201](#) on the DVD module board. (See Fig. 6)

Caution:

- Solder the short land section on the DVD pickup before disconnecting the card wire from the connector on the DVD pickup. If the card wire is disconnected without attaching solders, the pickup may be destroyed by static electricity.
- When attaching the DVD pickup, be sure to remove solders from the short land section after connecting the card wire to the connector on the DVD pickup.

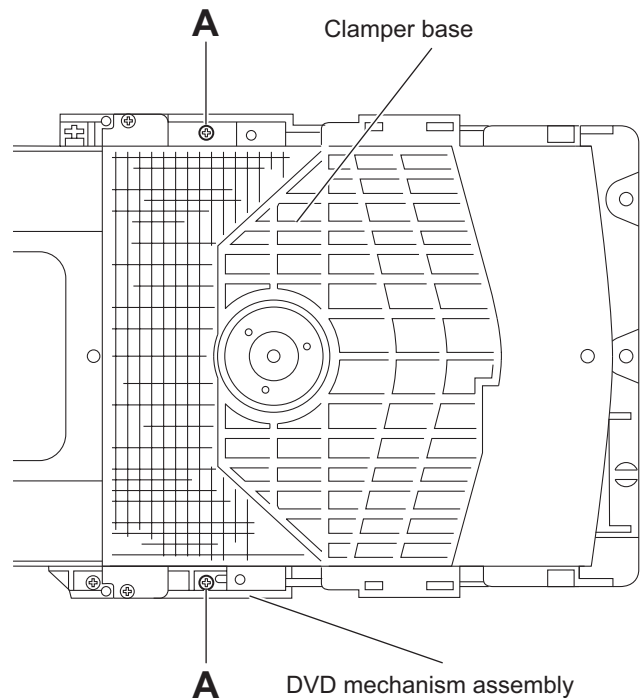


Fig.1

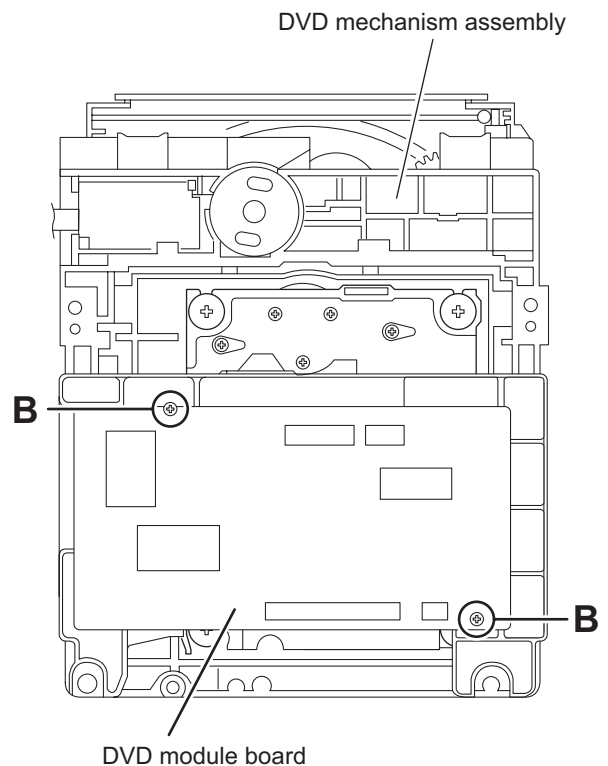


Fig.2

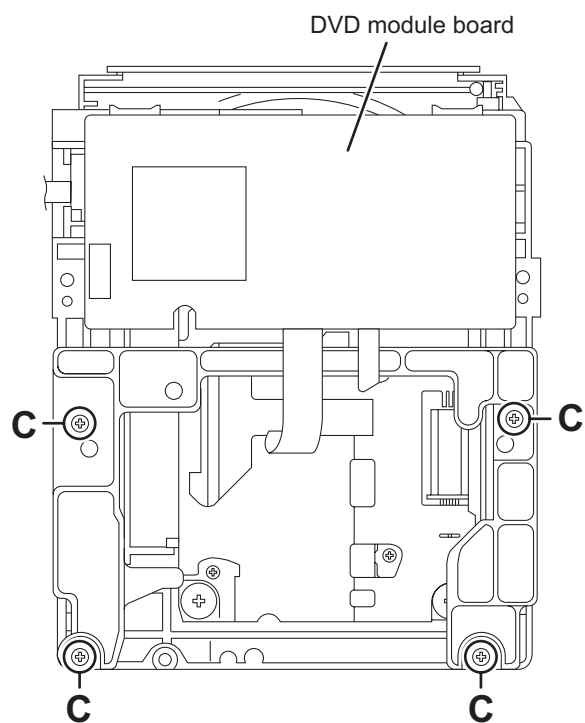


Fig.3

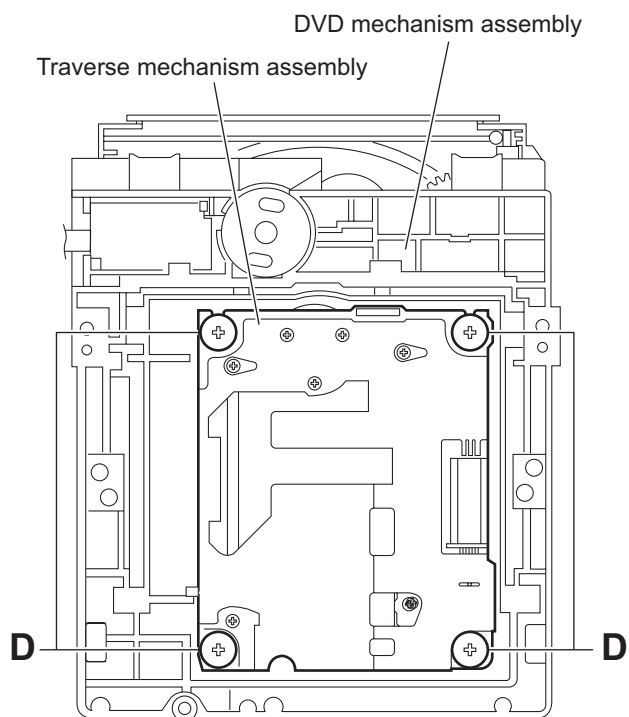


Fig.4

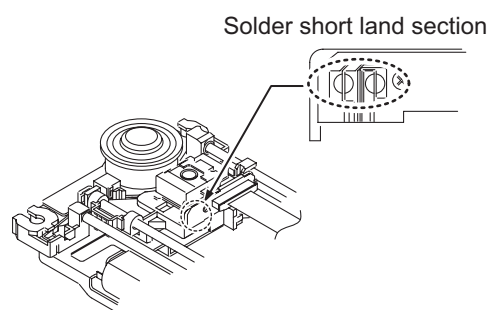


Fig.5

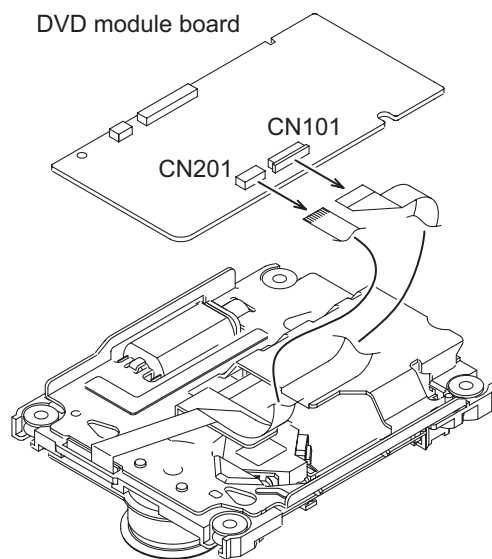


Fig.6

3.2.2 Removing the pickup assembly

(See Fig.7 to 11)

- (1) Remove the two rod springs pressing the guide shaft. (See Fig.7)
- (2) Remove the screw **E** and **F** attaching the spring holder. (See Fig.8)
- (3) Remove the read screw from traverse mechanism assembly. (See Fig.9)

Caution:

When remove the lead screw, do not loss the middle gear. (See Fig.10 and 11)

- (4) Remove the bar spring pressing the shaft. (See Fig.10)
- (5) Take out the pickup assembly from traverse mechanism chassis by order. (See Fig.11)

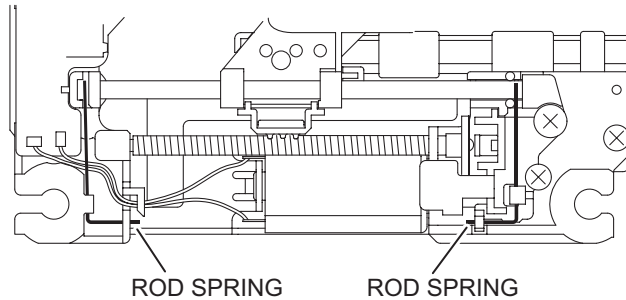


Fig.7

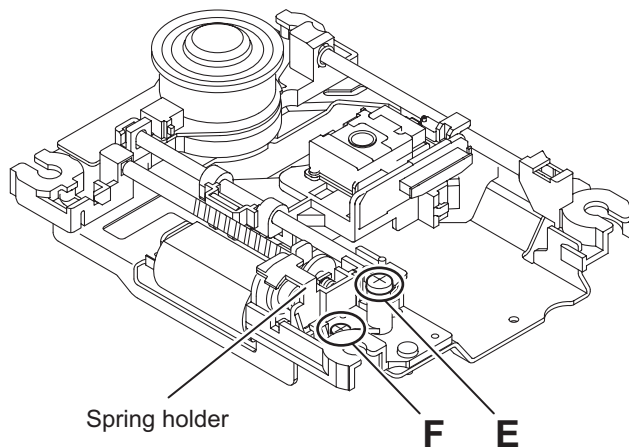


Fig.8

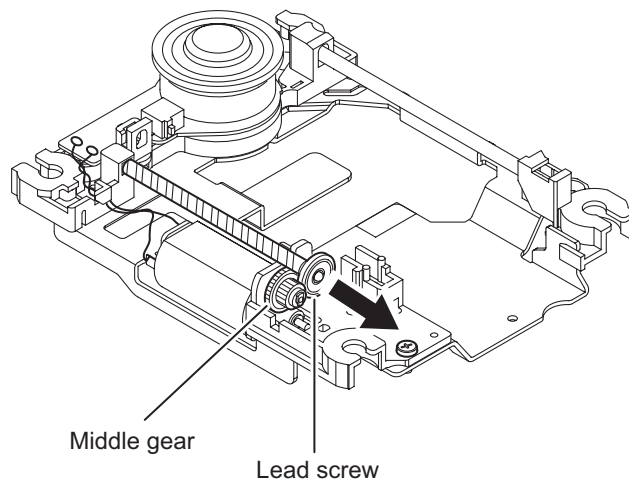


Fig.9

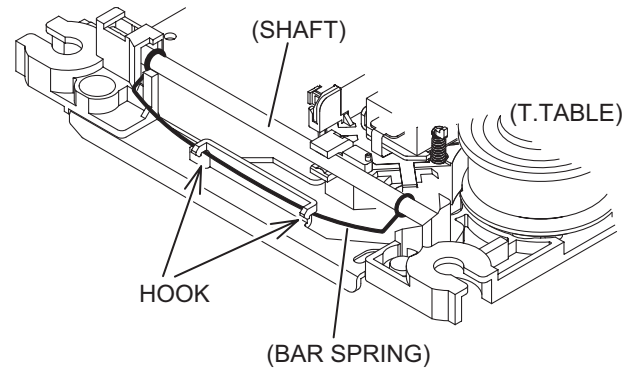


Fig.10

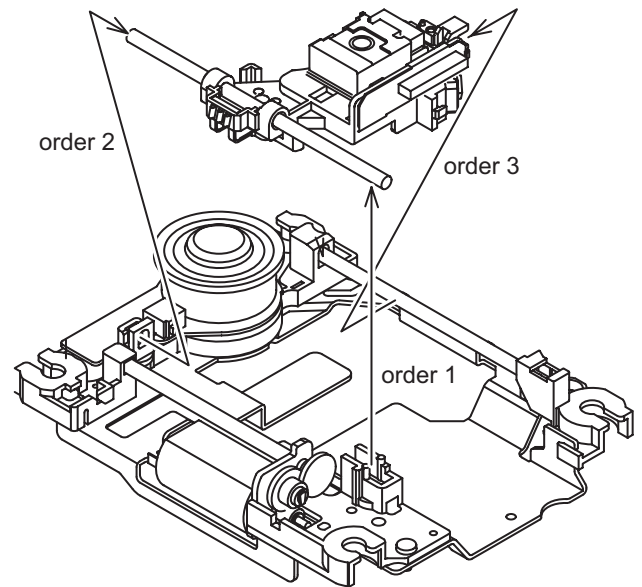


Fig.11

3.2.3 Removing the feed motor assembly (See Fig.12)

- (1) Remove the one screw **G** attaching the feed motor assembly.
- (2) Remove the feed motor wires from solder part of spindle motor board.

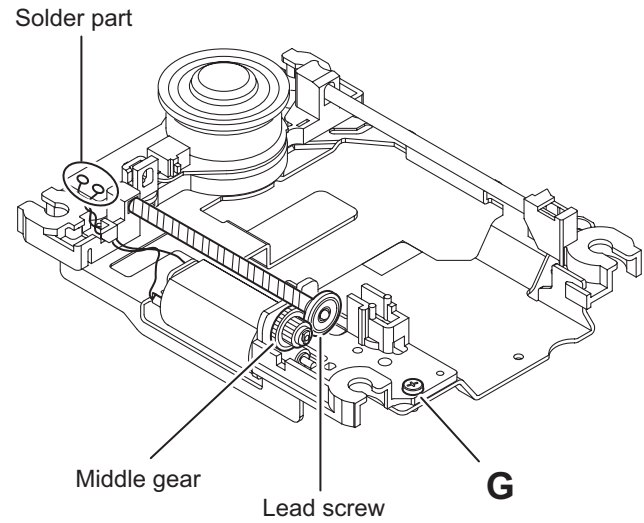


Fig.12

3.2.4 Removing the spindle motor assembly (See Fig.13)

- (1) Remove the three screws **H** attaching the spindle motor from spindle motor board.

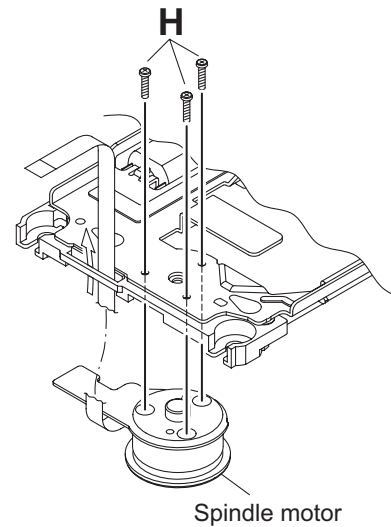


Fig.13

3.2.5 Removing the tray assembly (See Fig.14 & 15)

- (1) Remove the two screws **J** attaching the clamber base.
(See Fig.14)
- (2) Remove the one screw **K** attaching the shaft guide from bottom side. (See Fig.14)
- (3) Remove the two screws **L** attaching the shaft guide from top side. (See Fig.15)

Caution:

When attach the tray assembly, boss of loading sub assembly should attach to guide of bottom side at tray assembly. (See Fig.15)

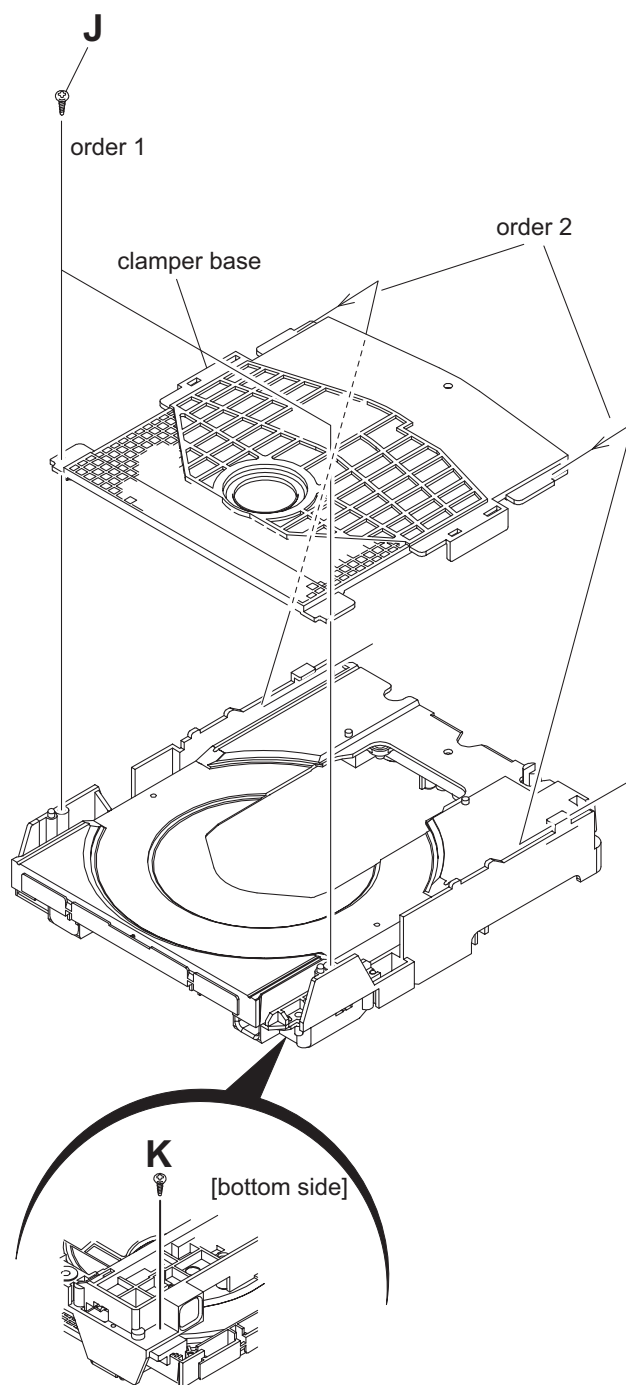


Fig.14

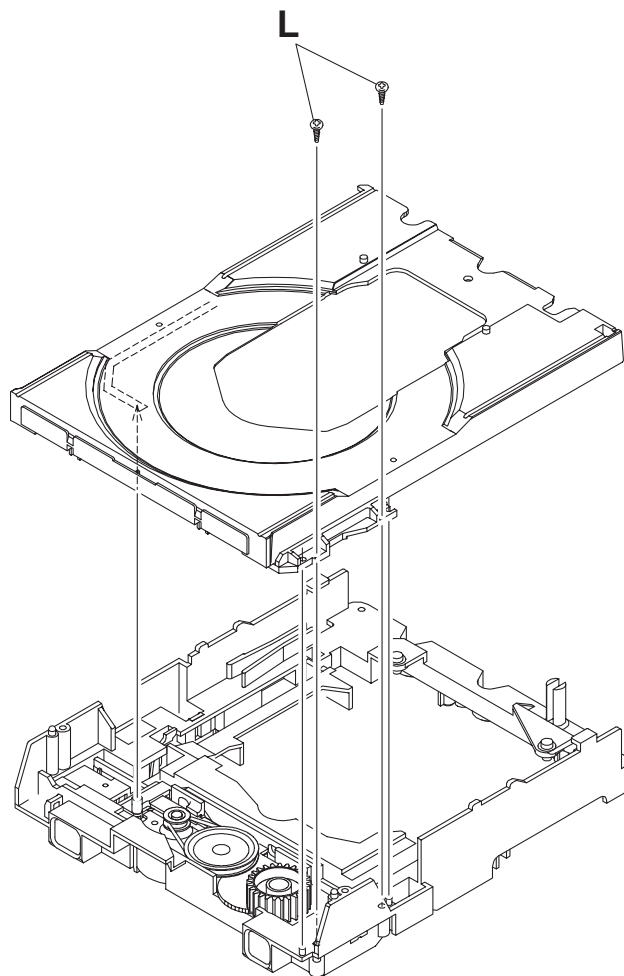


Fig.15

SECTION 4 ADJUSTMENT

4.1 ATTENTION IN SERVICE OF DVD SECTION

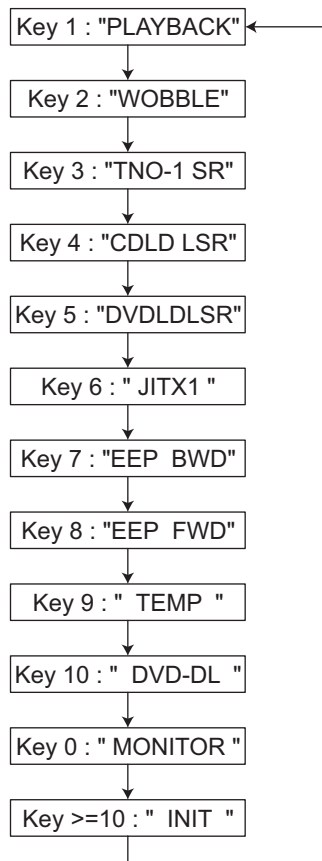
- (1) When pickup, Flash ROM ,DVD module board were changed, initialize EEPROM by all means.
- (2) When full initialization was excuted, excute learning with a DVD test disc by all means.
Test disc : VT-501, VT-502
Learning method : It is adjusted automatically by normal playback of a DVD disc.

4.2 DVD/CD TEST MODE

CAUTION:

The operation please use the button of the main body.

- (1) Press "DVD/CD" key + "STOP" key on panel, then AC in.
- (2) FL display "T **# \$&"
** is Destination
is Region Code
\$ is Learning Condition
& is Initialize Condition
- (3) Press "MENU/PL" key repeatedly, until FL display "CHECK"
- (4) Press number key on Remote Control "1-10, 0 and >=10"

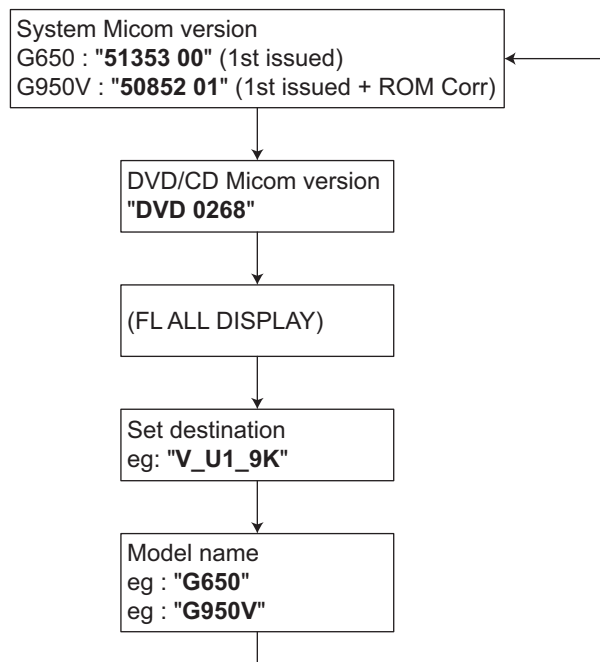


4.3 SYSTEM MICOM TEST MODE

CAUTION:

The operation please use the button of the remote controller.

(1) In DVD/CD mode, press "SET" key + "9" key + "POWER" key repeatedly.



4.4 GENERAL

CAUTION:

The operation please use the button of the remote controller.

KEY	INDICATION	FUNCTION
SET + "10" + POWER	COLD	COLD START (Initialization of set)
SET + "1" + POWER	00000:00 -> TMP 0000 -> L.DET 00 -> V.DROP 0 -> FAN 00 0 ->	Total DVD/CD mode play time by Hour:Minutes -> Mecha temperature data -> Spk level detect over trigger level by percentage, % -> Volume level drop, 1, 2 then 3, each -2db -> Fan level detect over trigger level by percentage, % and on(1)/off(0) ->
SET + "4" + POWER	VOLUME20 -> VOL MAX	Volume level to max by compulsion
SET + "9" + POWER	Refer SYSCOM TEST	Refer SYSCOM TEST
SET + ">=10" + POWER	(FL ALL DISPLAY)	FL all display

SECTION 5 TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.



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Audio/Video Systems Division 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB682<Rev.001>)

Printed in Japan
VPT

PARTS LIST

UX-G950VB,UX-G950VE,UX-G950VEN
UX-G950VEV,UX-G950VEE,UX-G650B
UX-G650E,UX-G650EN,UX-G650EV

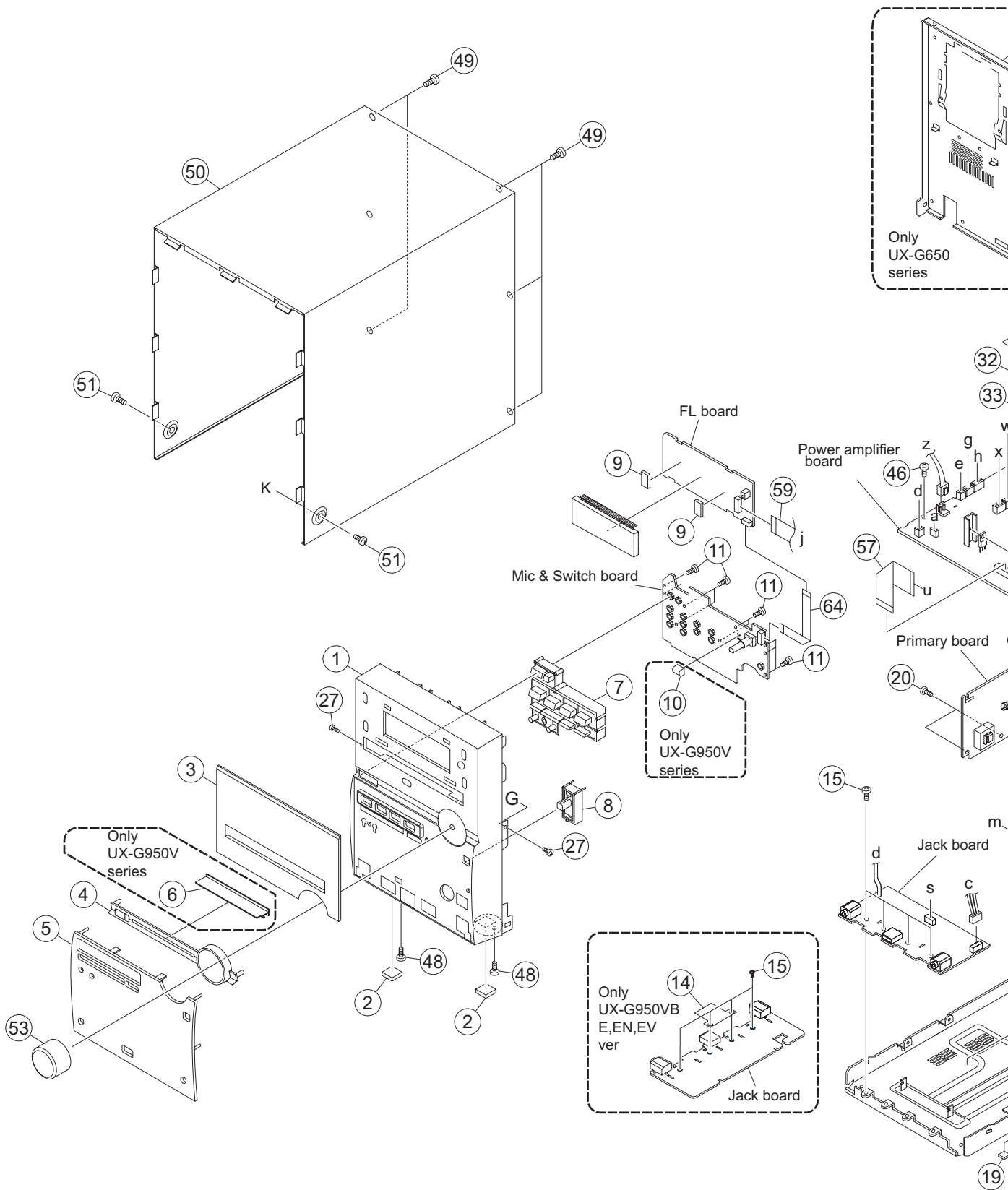
* All printed circuit boards and its assemblies are not available as service parts.

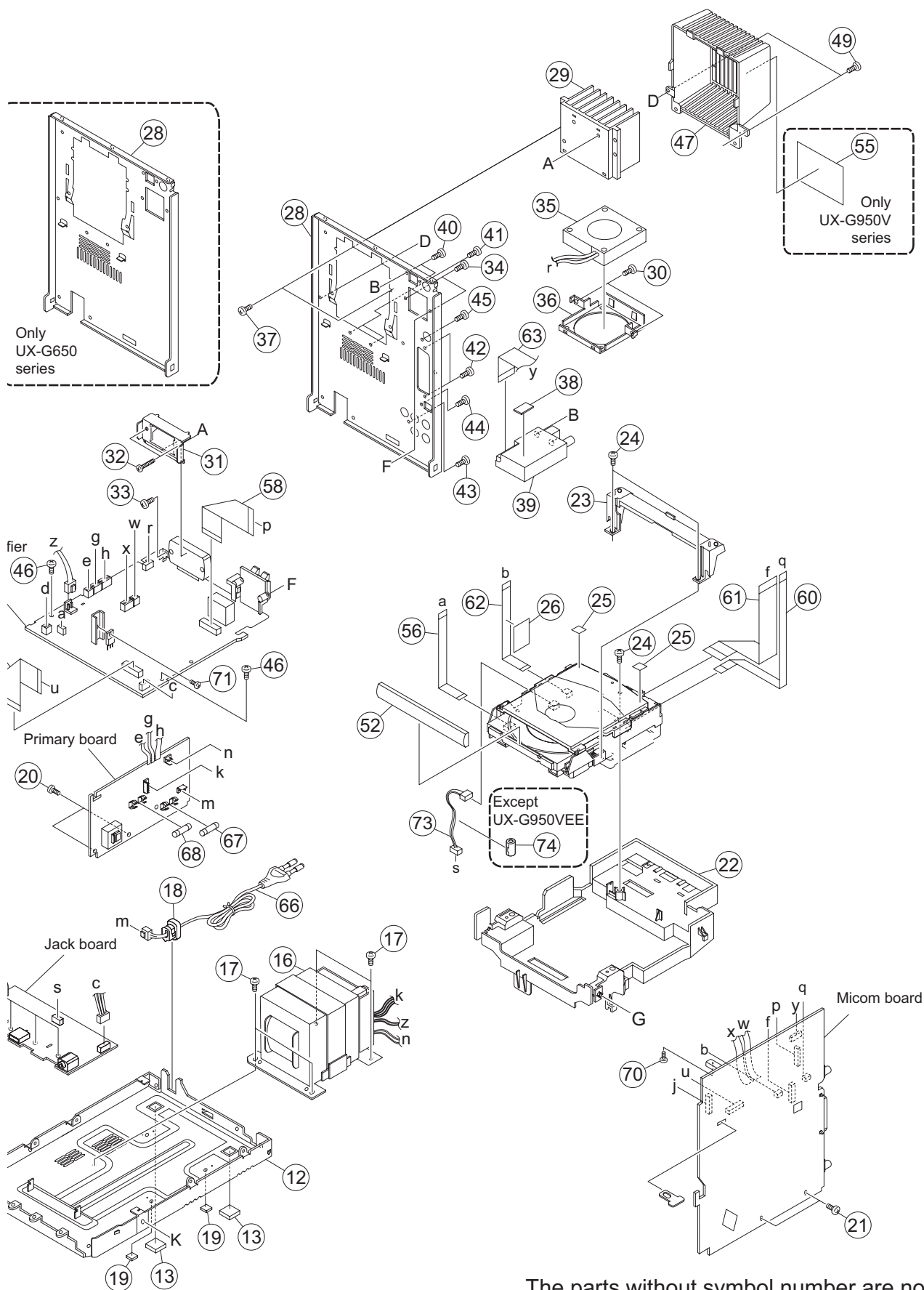
- Contents -

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DVD mechanism assembly and parts list (Block No.MJ)	3- 6
DVD loading base assembly and parts list (Block No.MN)	3- 8
Electrical parts list (Block No.01~04)	3-10
Packing materials and accessories parts list (Block No.M3)	3-18

Exploded view of general assembly and parts list

Block No. M 1 M M





The parts without symbol number are not service.

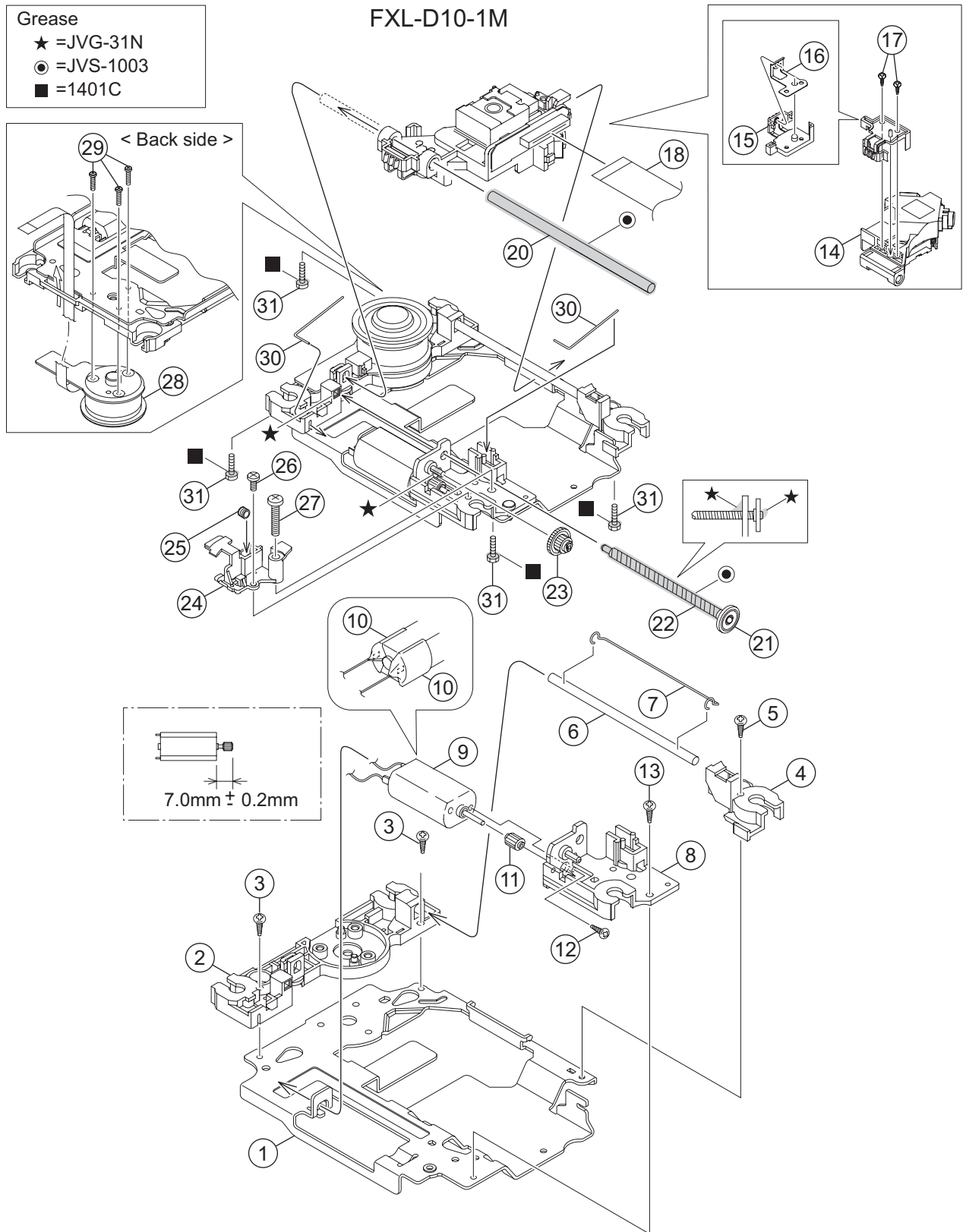
General Assembly

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

Symbol No.	Part No.	Part Name	Description	Local
1	GV10423-002A	FRONT PANEL		950VB,950VE,950VEN,950VEV,950VEE
1	GV10423-001A	FRONT PANEL		650B,650E,650EN,650EV
2	GV40313-002A	FELT SPACER	(x2)	
3	GV20511-002A	FRONT LENS		950VB,950VE,950VEN,950VEV,950VEE
3	GV20511-001A	FRONT LENS		650B,650E,650EN,650EV
4	GV20518-001A	VOL.ORNAMENT B		950VB,950VE,950VEN,950VEV,950VEE
4	GV20515-001A	VOL.ORNAMENT A		650B,650E,650EN,650EV
5	GV20512-002A	FRONT COVER A		950VB,950VE,950VEN,950VEV,950VEE
5	GV20512-001A	FRONT COVER		650B,650E,650EN,650EV
6	GV31187-001A	ILLUM.LENS		950VB,950VE,950VEN,950VEV,950VEE
7	GV20513-003A	FUNCTION BUTTON		950VB,950VE,950VEN,950VEV,950VEE
7	GV20513-001A	FUNCTION BUTTON		650B,650E,650EN,650EV
8	GV31188-002A	EJECT BUT		950VB,950VE,950VEN,950VEV,950VEE
8	GV31188-001A	EJECT BUT		650B,650E,650EN,650EV
9	GV30349-095A	SPACER	(x2)	
10	GV40557-001A	LED HOLDER		950VB,950VE,950VEN,950VEV,950VEE
11	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x9)	
12	GV10424-001A	BOTTOM CHASSIS		
13	GV40313-002A	FELT SPACER	(x2)	
14	GV40840-001A	SHEILD		950VB,950VE,950VEN,950VEV
15	QYSDSG3006EA	TAP SCREW	M3 x 6mm(x4)	
16	QQT0555-001	POWER TRANSF		950VB,950VE,950VEN,950VEV,950VEE
16	QQT0501-006	POWER TRANSF		650B,650E,650EN,650EV
17	QYSDSTL4008EA	TAP SCREW	M4 x 8mm(x4)	
18	QZW0033-001	STRAIN RELIEF		
19	GV40613-002A	SPACER	(x2)	
20	QYSDSG3006EA	TAP SCREW	M3 x 6mm(x2)	
21	QYSDSG3006EA	TAP SCREW	M3 x 6mm(x2)	
22	GV10433-001A	MECHA HOLDER		
23	GV31194-001A	PCB HOLDER		
24	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x3)	
25	GV30349-018A	SPACER	(x2)	
26	GV30349-023A	SPACER		
27	QYSSSF3010ZA	TAP SCREW	M3 x 10mm(x2)	
28	GV10427-004A	REAR PANEL		950VB,950VE,950VEN,950VEV,950VEE
28	GV10427-001A	REAR PANEL		650B,650E,650EN
28	GV10427-002A	REAR PANEL		650EV
29	GV31218-001A	HEAT SINK		
30	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
31	GV40818-001A	IC BRACKET		
32	QYSBSG3020ZA	TAP SCREW	M3 x 20mm(x2)	
33	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
34	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
35	QAR0392-002	FAN		
36	GV30850-001A	FAN BRACKET		
37	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
38	GV30349-018A	SPACER		
39	QAU0510-001	TUNER		
40	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
41	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
42	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	950VB,950VE,950VEN,950VEV,950VEE
43	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	950VB,950VE,950VEN,950VEV,950VEE
44	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	950VB,950VE,950VEN,950VEV,950VEE
45	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	950VB,950VE,950VEN,950VEV,950VEE
46	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x2)	
47	GV20408-003A	REAR COVER		
48	QYSDSG3006EA	TAP SCREW	M3 x 6mm(x2)	
49	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x7)	
50	GV10407-005A/S/	METAL COVER		
51	QYSDSG3008NA	TAP SCREW	M3 x 8mm(x2)	
52	GV31186-003A	TRAY FITTING		950VB,950VE,950VEN,950VEV,950VEE
52	GV31186-001A	TRAY FITTING		650B,650E,650EN,650EV
53	GV31135-002A	VOL KNOB		
55	GV31230-001A	RATING LABEL		950VB,950VE,950VEN,950VEV
55	GV31230-002A	RATING LABEL		950VEE
56	QUR110-0512AJ-E	FFC WIRE		
57	QUQU12-1907BJ-E	FFC WIRE	19pin 7cm	
58	QUQU12-1907BJ-E	FFC WIRE	19pin 7cm	
59	QUQU12-1709BF-E	FFC WIRE	17pin 9cm	
60	QUR110-0512AJ-E	FFC WIRE		
61	QUR110-2513AJ-E	FFC WIRE		
62	QUR110-0522BJ-E	FFC WIRE		
63	QUQU12-1507AJ-E	FFC WIRE	15pin 7cm	
64	QUQU12-1111BF-E	FFC WIRE	11pin 11cm	

△	Symbol No.	Part No.	Part Name	Description	Local
△	66	QMPN150-200-JC	POWER CORD(EK)	2m BLACK	950VB,650B
△	66	QMPK200-200-JD	POWER CORD	2m BLACK	950VE,950VEN,950VEV,950VEE,650E,650EN,650EV
△	67	QMF51W2-2R0-J8	FUSE	2A AC250V	950VB,950VE,950VEN,950VEV,950VEE
△	67	QMF51W2-1R6-J8	FUSE	1.6A AC250V	650B,650E,650EN,650EV
△	68	QMF51W2-2R0-J8	FUSE	2A AC250V	
	70	QYSDSG3008ZA	TAP SCREW	M3 x 8mm	
	71	QYSDSG3008ZA	TAP SCREW	M3 x 8mm	
	73	WJN0253-001A-E	FPC CONNE		
	74	QQR1835-001	NOISE FILTER		950VB,950VE,950VEN,950VEV,650B,650E,650EN,650EV

DVD mechanism assembly and parts list



The parts without symbol number are not service.

DVD mechanism

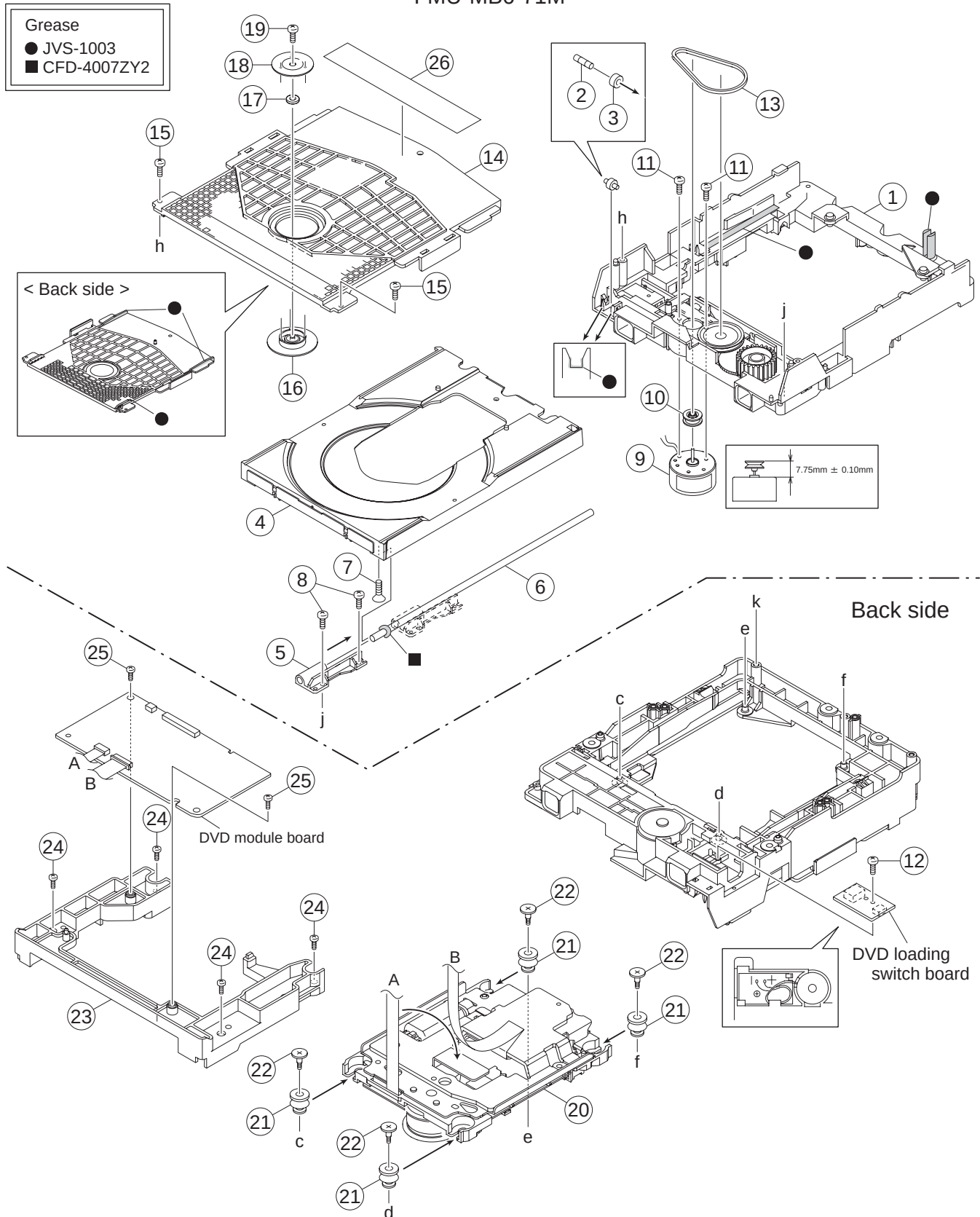
Block No. [M][J][M][M]

△	Symbol No.	Part No.	Part Name	Description	Local
1		LV22234-003A	T.M.CHASSIS		
2		LV22235-002A	SPINDLE BASE		
3		QYSDST2005ZA	TAP SCREW	M2 x 5mm(x2)	
4		LV36555-001A	G.S.HOLDER		
5		QYSDST2005ZA	TAP SCREW	M2 x 5mm	
6		LV44041-002A	GUIDE SHAFT		
7		LV44479-001A	BAR SPRING		
8		LV22236-001A	FEED HOLDER		
9		QAR0165-001	FEED MOTOR	5.0V DC	
10		LV30225-0X5A	SPACER	(x2)	
11		LV36557-001A	F.M.GEAR		
12		QYSPSPT2030MA	SCREW	M2 x 3mm	
13		QYSDST2005ZA	TAP SCREW	M2 x 5mm	
14		QAL0786-006	PICK UP		
14	or	QAL0786-004	P.UP		
15		LV22237-001A	RACK ARM		
16		LV36560-001A	RACK ARM SPRING		
17		QYSPSFU1740ZA	TAP SCREW	M1.7 x 4mm(x2)	
18		QUQK05-2415AC-E	FFC WIRE	24pin 15cm	
20		LV44041-002A	GUIDE SHAFT		
21		LV36559-001A	L.S.GEAR		
22		LV41517-003A	LEAD SCREW		
23		LV36558-001A	MIDDLE GEAR		
24		LV36556-001A	SPRING HOLDER		
25		LV44623-001A	COMP.SPRING		
26		QYSDST2005ZA	TAP SCREW	M2 x 5mm	
27		QYSDST2616MA	TAP SCREW	M2.6 x 16mm	
28		QAR0386-001	S.MOTOR		
29		QYSPSPU1775ZA	SCREW	M1.7 x 7.5mm(x3)	
30		LV44042-001A	ROD SPRING	(x2)	
31		LV44046-001A	ADJUST SCREW	(x4)	

DVD loading base assembly and parts list

Block No. **M N M M**

FMU-MB6-71M



The parts without symbol number are not service.

DVD loading base assembly

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

△	Symbol No.	Part No.	Part Name	Description	Local
1		LV11065-014A	LOADER SUB ASSY		
2		E407140-001SS	C.D ROLLER		
3		E407149-001SS	RUBBER TUBE		
4		LV10979-003A	TRAY		
5		LV35499-003A	SHAFT GUIDE		
6		LV44022-001A	SHAFT		
7		QYSSSF2008ZA	TAP SCREW	M2 x 8mm	
8		QYSDSF2008ZA	TAP SCREW	M2 x 8mm(x2)	
9		QAR0197-001	MOTOR	2.0V DC	
9	or	QAR0450-001	MOTOR		
10		LV43844-002A	MOTOR PULLEY		
11		QYSPSPU1730ZA	SCREW	M1.7 x 3mm(x2)	
12		QYSDSF2008ZA	TAP SCREW	M2 x 8mm	
13		LV43974-001A	BELT		
14		LV21852-003A	CLAMPER BASE		
15		QYSDSF2008ZA	TAP SCREW	M2 x 8mm(x2)	
16		LV35056-002A	DVD CLAMPER		
17		LV42930-003A	MAGNET		
17	or	LV41118-003A	MAGNET		
18		LV43848-001A	YOKE		
19		LE40906-002A-M	SPECIAL SCREW		
20		-----	SINGLE DVD TRAM		
21		LV44043-001A	INSULATOR	(x4)	
22		LV44044-001A	SPECIAL SCREW	(x4)	
23		LV11212-003A	CB HOLDER		
24		QYSBSF2608ZA	TAP SCREW	M2.6 x 8mm(x4)	
25		LV44209-001A	WASHER SCREW	(x2)	
26		LV44603-003A	LASER CAUTION		

Electrical parts list

Main board

Block No. [0][1]

△ Symbol No.	Part No.	Part Name	Description	Local
IC100	PT6315	IC		
IC101	GP1UE271XKC1	IC		
△ IC201	STK432-090-E	POWER IC		950VB,950V E,950VEN,9 50VEV,950V EE
△ IC201	STK432-070	IC		650B,650E,6 50EN,650EV
IC202	KBJ4J	BRIDGE DIODE		
IC231	NJU7391V-X	IC		
IC251	NJM4565E-X	IC		
△ IC291	KIA278R09PI	IC		
IC300	-----	MICON IC		
IC320	BD9778F-X	IC		
IC330	GP1FAV30TK0F	OPT TRANSMITTER		950VB,950V E,950VEN,9 50VEV,950V EE
IC351	RT3Y97M-X	TR ARRAY		950VB,950V E,950VEN,9 50VEV,950V EE
IC401	MM1623XF-X	IC		950VB,950V E,950VEN,9 50VEV,950V EE
IC901	LB1641	IC		
Q1000	KRC102S-X	DIGI TRANSISTOR		
Q1001	KRC102S-X	DIGI TRANSISTOR		
Q2002	RT3Y97M-X	TR ARRAY		
Q2011	KTC3875/YG/-X	TRANSISTOR		
Q2012	KTA1504/YG/-X	TRANSISTOR		
Q2013	KTC3200/GL/-T	TRANSISTOR		
Q2101	KTA1268/GL/-T	TRANSISTOR		
Q2201	KTA1268/GL/-T	TRANSISTOR		
Q2511	RT3X99M-X	TRANSISTOR		
Q2701	KRA102S-X	DIGI TRANSISTOR		
Q2711	RT3X99M-X	TRANSISTOR		
Q2721	RT3X99M-X	TRANSISTOR		
Q2751	KRC110S-X	DIGI TRANSISTOR		
Q2801	KTA1504/YG/-X	TRANSISTOR		
Q2802	KRC111S-X	TRANSISTOR		
Q3200	KRC102S-X	DIGI TRANSISTOR		
Q3250	KRC111S-X	TRANSISTOR		
Q3301	KRC110S-X	DIGI TRANSISTOR		
Q3510	KTC3875/YG/-X	TRANSISTOR		950VB,950V E,950VEN,9 50VEV,950V EE
Q3710	KTA1046/Y/	TRANSISTOR		
Q3720	KTC3875/YG/-X	TRANSISTOR		
Q3730	KRA102S-X	DIGI TRANSISTOR		
Q3731	KRC102S-X	DIGI TRANSISTOR		
Q4300	KRC102S-X	DIGI TRANSISTOR		950VB,950V E,950VEN,9 50VEV,950V EE
Q4301	KRC102S-X	DIGI TRANSISTOR		950VB,950V E,950VEN,9 50VEV,950V EE
Q4302	KRA102S-X	DIGI TRANSISTOR		950VB,950V E,950VEN,9 50VEV,950V EE
Q4303	KRC102S-X	DIGI TRANSISTOR		950VB,950V E,950VEN,9 50VEV,950V EE
D2011	MA111-X	SI DIODE		
D2031	1N4003S-T5	SI DIODE		
D2032	1N4003S-T5	SI DIODE		
D2033	1N4003S-T5	SI DIODE		

△ Symbol No.	Part No.	Part Name	Description	Local
D2101	MA111-X	SI DIODE		
D2201	MA111-X	SI DIODE		
D2501	MC2838-X	DIODE		
D2502	MA111-X	SI DIODE		
D2751	MA8120/M/-X	Z DIODE		
D2752	MA111-X	SI DIODE		
D2771	MC2838-X	DIODE		
D2772	MA8036-X	Z DIODE		
D3200	MA22D23-X	SB DIODE		
D3250	MC2836-X	DIODE		
D3251	MA8100/M/-X	Z DIODE		
D3252	MA8068/M/-X	Z DIODE		
D3253	MC2836-X	DIODE		
D3301	MA111-X	SI DIODE		
D3380	MA8033/H/-X	Z DIODE		
D3510	MA111-X	SI DIODE		650B,650E,6 50EN,650EV
D3511	MA111-X	SI DIODE		650B,650E,6 50EN,650EV
D3550	1N4003S-T5	SI DIODE		
D3651	1N4003S-T5	SI DIODE		
D3652	1N4003S-T5	SI DIODE		
D3653	1N4003S-T5	SI DIODE		
D3654	1N4003S-T5	SI DIODE		
D3655	RL202-B322-1	SI DIODE		
D3656	RL202-B322-1	SI DIODE		
D3713	MA8300/M/-X	Z DIODE		
D3714	MA8360/M/-X	Z DIODE		
D3720	MA8056/M/-X	Z DIODE		
D3800	MA111-X	SI DIODE		
D3801	MA111-X	SI DIODE		
D3802	MA111-X	SI DIODE		
D4300	MA8110/M/-X	Z DIODE		950VB,950V E,950VEN,9 50VEV,950V EE
D9001	MA8047/M/-X	Z DIODE		
C1003	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C1004	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C1005	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1006	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C1007	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C1008	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C1009	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C2001	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2011	QETN1JM-226Z	E CAPACITOR	22uF 63V M	950VB,950V E,950VEN,9 50VEV,950V EE
C2011	QETN1HM-226Z	E CAPACITOR	22uF 50V M	650B,650E,6 50EN,650EV
C2012	QETN1VM-476Z	E CAPACITOR	47uF 35V M	
C2013	QETN1JM-226Z	E CAPACITOR	22uF 63V M	950VB,950V E,950VEN,9 50VEV,950V EE
C2013	QETN1HM-226Z	E CAPACITOR	22uF 50V M	650B,650E,6 50EN,650EV
C2021	QEZO510-478	E CAPACITOR	4700uF M	950VB,950V E,950VEN,9 50VEV,950V EE
C2021	QEZO808-478	E CAPACITOR	4700uF	650B,650E,6 50EN,650EV
C2022	QEZO510-478	E CAPACITOR	4700uF M	950VB,950V E,950VEN,9 50VEV,950V EE
C2022	QEZO808-478	E CAPACITOR	4700uF	650B,650E,6 50EN,650EV
C2023	QETM1EM-688	E CAPACITOR	6800uF 25V M	950VB,950V E,950VEN,9 50VEV,950V EE
C2023	QETM1EM-478	E CAPACITOR	4700uF 25V M	650B,650E,6 50EN,650EV
C2024	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J	
C2031	QETN1JM-107Z	E CAPACITOR	100uF 63V M	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C2032	QETN2AM-476Z	E CAPACITOR	47uF 100V M		C2771	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C2041	QETN1CM-107Z	E CAPACITOR	100uF 16V M		C2801	QEK1HM-106Z	E CAPACITOR	10uF 50V M	
C2101	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C2851	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2102	NCB31HK-271X	C CAPACITOR	270pF 50V K	950VB,950V E,950VEN,9 50VEV,950V EE	C2853	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
				650B,650E,6 50EN,650EV	C2901	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2102	NCB31HK-331X	C CAPACITOR	330pF 50V K		C3001	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C2103	QTE1J46-106Z	E CAPACITOR	10uF 63V		C3002	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C2104	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J		C3003	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C2105	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		C3004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2106	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		C3005	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2107	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	C3006	NCB31AK-105X	C CAPACITOR	1uF 10V K	
					C3200	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C2108	QETN1JM-476Z	E CAPACITOR	47uF 63V M		C3201	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
C2109	QETN1HM-106Z	E CAPACITOR	10uF 50V M		C3202	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C2111	QETN1HM-106Z	E CAPACITOR	10uF 50V M		C3203	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
C2201	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C3205	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C2202	NCB31HK-271X	C CAPACITOR	270pF 50V K	950VB,950V E,950VEN,9 50VEV,950V EE	C3301	QEK1HM-475Z	E CAPACITOR	4.7uF 50V M	
				650B,650E,6 50EN,650EV	C3302	QEK1HM-106Z	E CAPACITOR	10uF 50V M	
C2202	NCB31HK-331X	C CAPACITOR	330pF 50V K		C3303	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2203	QTE1J46-106Z	E CAPACITOR	10uF 63V		C3304	QEK1CM-107Z	E CAPACITOR	100uF 16V M	
C2204	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J		C3350	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	950VB,950V E,950VEN,9 50VEV,950V EE
C2205	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		C3380	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2206	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		C3510	QETN1HM-226Z	E CAPACITOR	22uF 50V M	950VB,950V E,950VEN,9 50VEV,950V EE
C2207	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	C3511	QETN1HM-105Z	E CAPACITOR	1uF 50V M	950VB,950V E,950VEN,9 50VEV,950V EE
					C3512	QETN1HM-105Z	E CAPACITOR	1uF 50V M	950VB,950V E,950VEN,9 50VEV,950V EE
C2208	QETN1JM-476Z	E CAPACITOR	47uF 63V M		C3513	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	950VB,950V E,950VEN,9 50VEV,950V EE
C2301	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C3514	NCB31HK-102X	C CAPACITOR	1000pF 50V K	950VB,950V E,950VEN,9 50VEV,950V EE
C2303	QEZ0863-106Z	M CAPACITOR	10uF						
C2304	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	950VB,950V E,950VEN,9 50VEV,950V EE					
C2305	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M						
					C3521	QTE1J46-106Z	E CAPACITOR	10uF 63V	
C2308	QFNC2AJ-822Z	M CAPACITOR	8200pF 100V J		C3522	NCB31HK-391X	C CAPACITOR	390pF 50V K	
C2309	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J		C3531	QTE1J46-106Z	E CAPACITOR	10uF 63V	
C2310	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J		C3532	NCB31HK-391X	C CAPACITOR	390pF 50V K	
C2311	QFNC2AJ-472Z	M CAPACITOR	4700pF 100V J		C3550	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2312	QEZ0863-106Z	M CAPACITOR	10uF		C3653	QEK1CM-107Z	E CAPACITOR	100uF 16V M	
C2313	QTE2A60-475Z	E CAPACITOR	4.7uF 100V		C3654	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2314	QETN1JM-107Z	E CAPACITOR	100uF 63V M		C3655	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2401	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C3712	QETN1JM-226Z	E CAPACITOR	22uF 63V M	
C2403	QEZ0863-106Z	M CAPACITOR	10uF	950VB,950V E,950VEN,9 50VEV,950V EE	C3713	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C2404	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C3714	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2405	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C3720	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
					C3900	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	950VB,950V E,950VEN,9 50VEV,650B ,650E,650E N,650EV
C2408	QFNC2AJ-822Z	M CAPACITOR	8200pF 100V J						950VB,950V E,950VEN,9 50VEV,950V EE
C2409	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J		C4100	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	950VB,950V E,950VEN,9 50VEV,950V EE
C2410	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J						
C2411	QFNC2AJ-472Z	M CAPACITOR	4700pF 100V J		C4101	NCB31HK-331X	C CAPACITOR	330pF 50V K	950VB,950V E,950VEN,9 50VEV,950V EE
C2412	QEZ0863-106Z	M CAPACITOR	10uF						
C2501	QETN1HM-106Z	E CAPACITOR	10uF 50V M		C4107	QETN1AM-477Z	E CAPACITOR	470uF 10V M	950VB,950V E,950VEN,9 50VEV,950V EE
C2502	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M						
C2503	QETN1HM-105Z	E CAPACITOR	1uF 50V M		C4201	NCB31HK-331X	C CAPACITOR	330pF 50V K	950VB,950V E,950VEN,9 50VEV,950V EE
C2504	NCB31CK-154X	C CAPACITOR	0.15uF 16V K						
C2511	QEZ0863-226Z	E CAPACITOR	22uF		C4400	QETN1AM-477Z	E CAPACITOR	470uF 10V M	950VB,950V E,950VEN,9 50VEV,950V EE
C2512	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J						
C2513	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J						
C2521	QEZ0863-226Z	E CAPACITOR	22uF						
C2522	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J						
C2523	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J						
C2701	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M						
C2731	NCB31HK-473X	C CAPACITOR	0.047uF 50V K						
C2732	NCB31HK-332X	C CAPACITOR	3300pF 50V K						
C2733	NCB31HK-473X	C CAPACITOR	0.047uF 50V K						
C2734	NCB31HK-102X	C CAPACITOR	1000pF 50V K						
C2741	NCB31HK-473X	C CAPACITOR	0.047uF 50V K						
C2742	NCB31HK-332X	C CAPACITOR	3300pF 50V K						
C2743	NCB31HK-473X	C CAPACITOR	0.047uF 50V K						
C2744	NCB31HK-102X	C CAPACITOR	1000pF 50V K						

△ Symbol No.	Part No.	Part Name	Description	Local
C4402	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	950VB,950V E,950VEN,9 50VEV,950V EE
C4403	NCB31CK-105X	C CAPACITOR	1uF 16V K	950VB,950V E,950VEN,9 50VEV,950V EE
C4404	QEK1HM-106Z	E CAPACITOR	10uF 50V M	950VB,950V E,950VEN,9 50VEV,950V EE
C4405	QEK1HM-226Z	E CAPACITOR	22uF 50V M	950VB,950V E,950VEN,9 50VEV,950V EE
C4406	NCB31CK-105X	C CAPACITOR	1uF 16V K	950VB,950V E,950VEN,9 50VEV,950V EE
C4407	NCB31CK-105X	C CAPACITOR	1uF 16V K	950VB,950V E,950VEN,9 50VEV,950V EE
C4408	NCB31CK-105X	C CAPACITOR	1uF 16V K	950VB,950V E,950VEN,9 50VEV,950V EE
C4409	QETN1AM-477Z	E CAPACITOR	470uF 10V M	950VB,950V E,950VEN,9 50VEV,950V EE
C4410	QETN1AM-477Z	E CAPACITOR	470uF 10V M	950VB,950V E,950VEN,9 50VEV,950V EE
C4411	QETN1AM-477Z	E CAPACITOR	470uF 10V M	950VB,950V E,950VEN,9 50VEV,950V EE
C4412	NCB31CK-105X	C CAPACITOR	1uF 16V K	950VB,950V E,950VEN,9 50VEV,950V EE
C9001	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R1000	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R1004	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1005	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1006	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R1007	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R1008	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R2002	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2003	QRJ143J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2011	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2012	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2013	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R2014	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2015	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2016	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R2017	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2018	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2019	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R2021	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2022	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2031	QRJ143J-4R7X	UNF C RESISTOR	4.7Ω 1/4W J	
R2041	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2042	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2101	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R2101	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	650B,650E,6 50EN,650EV
R2102	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R2102	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J	650B,650E,6 50EN,650EV
R2103	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R2104	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local
R2105	QRJ143J-561X	UNF C RESISTOR	560Ω 1/4W J	950VB,950V E,950VEN,9 50VEV,950V EE
R2105	QRJ143J-681X	UNF C RESISTOR	680Ω 1/4W J	650B,650E,6 50EN,650EV
R2106	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R2106	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	650B,650E,6 50EN,650EV
R2107	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R2107	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	650B,650E,6 50EN,650EV
△ R2108	QRJ143J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2109	QRJ143J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2110	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2111	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R2111	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	650B,650E,6 50EN,650EV
R2112	QRT01DJ-R22X	MF RESISTOR	0.22Ω 1W J	
R2113	QRT01DJ-R22X	MF RESISTOR	0.22Ω 1W J	
R2114	QRJ143J-470X	UNF C RESISTOR	47Ω 1/4W J	
R2115	QRJ143J-470X	UNF C RESISTOR	47Ω 1/4W J	
R2201	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R2201	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	650B,650E,6 50EN,650EV
R2202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R2202	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J	650B,650E,6 50EN,650EV
R2203	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R2204	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2205	QRJ143J-561X	UNF C RESISTOR	560Ω 1/4W J	950VB,950V E,950VEN,9 50VEV,950V EE
R2205	QRJ143J-681X	UNF C RESISTOR	680Ω 1/4W J	650B,650E,6 50EN,650EV
R2206	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R2206	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	650B,650E,6 50EN,650EV
R2207	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R2207	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	650B,650E,6 50EN,650EV
R2208	QRJ143J-100X	UNF C RESISTOR	10Ω 1/4W J	
△ R2209	QRJ143J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2210	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2211	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R2211	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	650B,650E,6 50EN,650EV
R2212	QRT01DJ-R22X	MF RESISTOR	0.22Ω 1W J	
R2213	QRT01DJ-R22X	MF RESISTOR	0.22Ω 1W J	
R2301	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R2302	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R2303	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R2304	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2305	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2401	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R2402	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R2403	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R2501	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R2502	NRSA63J-362X	MG RESISTOR	3.6kΩ 1/16W J		R3075	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R2503	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J						
R2504	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J		R3079	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2511	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J		R3080	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2512	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		R3081	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2513	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J		R3082	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2514	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		R3083	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2515	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R3084	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2521	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J		R3085	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2522	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J		R3087	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2523	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J		R3092	NRSA63J-133X	MG RESISTOR	13kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R2524	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J						
R2525	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R2711	QRJ143J-681X	UNF C RESISTOR	680Ω 1/4W J		R3092	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	650B,650E,6 50EN,650EV
R2721	QRJ143J-681X	UNF C RESISTOR	680Ω 1/4W J						
R2731	QRJ143J-4R7X	UNF C RESISTOR	4.7Ω 1/4W J		R3093	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2741	QRJ143J-4R7X	UNF C RESISTOR	4.7Ω 1/4W J		R3094	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2751	QRL01DJ-820X	OMF RESISTOR	82Ω 1W J		R3095	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2752	QRL01DJ-820X	OMF RESISTOR	82Ω 1W J		R3096	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2753	QRL01DJ-820X	OMF RESISTOR	82Ω 1W J	650B,650E,6 50EN,650EV	R3097	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
					R3098	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2761	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J		R3099	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2762	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J		R3102	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2771	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J		R3105	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R2772	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J						
R2773	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	R3124	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
					R3125	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2773	NRSA63J-623X	MG RESISTOR	62kΩ 1/16W J	650B,650E,6 50EN,650EV	R3130	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2801	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R3132	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2802	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R3144	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3003	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3167	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3005	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3173	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3010	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	R3175	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	650B,650E,6 50EN,650EV
R3011	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R3176	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3020	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	R3179	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
					R3180	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3021	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	R3181	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
					R3186	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3024	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3192	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3025	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3194	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3026	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3195	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3027	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3196	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3028	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3197	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3029	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3198	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3030	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3200	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R3033	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3201	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R3034	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3035	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3203	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3036	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3204	NRSA63J-824X	MG RESISTOR	820kΩ 1/16W J	
R3038	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3301	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3040	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3302	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3046	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3303	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3048	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3380	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R3049	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3381	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R3050	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3382	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R3051	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3383	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R3052	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3385	NRSA02J-361X	MG RESISTOR	360Ω 1/10W J	
R3053	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3512	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R3056	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R3058	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3513	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R3061	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R3062	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3514	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R3064	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R3065	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R3067	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3521	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R3071	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3522	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R3074	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R3531	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
					R3532	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
					R3711	NRSA63J-753X	MG RESISTOR	75kΩ 1/16W J	
					R3712	NRSA63J-753X	MG RESISTOR	75kΩ 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R3713	NRSA63J-753X	MG RESISTOR	75kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	R4504	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R3714	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R4506	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R3720	QRK126J-470X	UNF C RESISTOR	47Ω 1/2W J						
R3721	QRK126J-470X	UNF C RESISTOR	47Ω 1/2W J						
R3730	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J						
R4001	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		R4508	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R4002	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	L2101 L2201 L3200 L3301 L4000	QQLZ042-R45 QQLZ042-R45 QQL28AK-470 QQL244K-100Z NRSA63J-0R0X	COIL COIL CHOKE COIL COIL MG RESISTOR	0.45uH 0.45uH 47uH K 10uH K 0Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R4003	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE					
R4100	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE					
R4102	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE					
R4103	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	L4001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R4104	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	L4002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE
R4105	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	CN100	QGF1208F1-17	CONNECTOR	FFC/FPC (1-17)	950VB,950V E,950VEN,9 50VEV,950V EE
R4106	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	CN101	QGF1208F1-11	CONNECTOR	FFC/FPC (1-11)	
R4107	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	CN201	QGA2501C1-03	CONNECTOR	W-B (1-3)	
R4108	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	CN203	QGD2504C1-04Z	CONNECTOR	(1-4)	
R4109	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	CN204	QGF1208C1-19	CONNECTOR	FFC/FPC (1-19)	
R4200	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	CN205	QGF1208C1-19	CONNECTOR	FFC/FPC (1-19)	
R4202	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	CN206	QGA2501C1-03	CONNECTOR	W-B (1-3)	
R4203	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	CN207	QGD2504C1-04Z	CONNECTOR	(1-4)	
R4300	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	CN208	QGD2504C1-05Z	CONNECTOR	(1-5)	
R4301	NRSA63J-621X	MG RESISTOR	620Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	CN209	QGA3901C1-02	CONNECTOR	W-B (1-2)	
R4401	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	CN210	QGD2504C1-05Z	CONNECTOR	(1-5)	
R4500	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	CN211	QGD2504C1-04Z	CONNECTOR	(1-4)	
R4502	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	950VB,950V E,950VEN,9 50VEV,950V EE	CN212	QGD2504C1-03Z	CONNECTOR	(1-3)	
					CN213	QGF1040C1-05	CONNECTOR	FFC/FPC (1-5)	
					CN214	QGB2510J1-06	CONNECTOR	B-B (1-6)	
					CN300	QGF1208F1-06	CONNECTOR	FFC/FPC (1-6)	
					CN301	QGF1208C1-19	CONNECTOR	FFC/FPC (1-19)	
					CN320	QGF1208C1-19	CONNECTOR	FFC/FPC (1-19)	
					CN330	QGF1208C1-17	CONNECTOR	FFC/FPC (1-17)	
					CN338	QGF1208F1-15	CONNECTOR	FFC/FPC (1-15)	
					CN345	QGF1040C1-05	CONNECTOR	FFC/FPC (1-5)	
					CN353	QGF1040C1-05	CONNECTOR	FFC/FPC (1-5)	
					CN361	QGF1040C1-25	CONNECTOR	FFC/FPC (1-25)	
					CN901	QGB2510K1-06	CONNECTOR	B-B (1-6)	
					DI100	QLF0196-001	FL TUBE		
					EP200	GV40327-001A	IC BOARD HOLDER		
					HS291	GV40520-004A	HEAT SINK		950VB,950V E,950VEN,9 50VEV,950V EE
					HS291	GV40614-004A	HEAT SINK		650B,650E,6 50EN,650EV
					HS300	GV40606-002A	HEAT SINK		950VB,950V E,950VEN,9 50VEV,950V EE
					J2001	QNB0303-001	SPK JACK		
					J3510	QNN0780-001	PIN JACK		950VB,950V E,950VEN,9 50VEV,950V EE
					J4001	QNN0779-001	JACK		950VB,950V E,950VEN,9 50VEV,950V EE
					J4004	QNZ0775-001	RGB CONNECTOR		950VB,950V E,950VEN,9 50VEV,950V EE
					K1000	QQR0621-001Z	FERRITE BEADS	1.5K/ 100MHz200mA0 .4R	950VB,950V E,950VEN,9 50VEV,950V EE
					K1001	NQR0627-002X	FERRITE		

△ Symbol No.	Part No.	Part Name	Description	Local
K1002	NQR0627-002X	FERRITE	1.5K/ 100MHz200mA0 .4R	
K3301	QQR0621-001Z	FERRITE BEADS		
K3450	NQR0502-002X	FERRITE BEADS		
K3451	NQR0502-002X	FERRITE BEADS		
LF271	QQR0797-002	COIL		
LF272	QQR0797-002	COIL		
RY201	QSK0192-001	RELAY		
WC201	QZW0112-001	WIRE CLAMP		
WC202	QZW0112-002	WIRE CLAMP		
WR320	QUM155-12DGZ4-E	FLAT WIRE		
WR321	QUM154-12DGZ4-E	FLAT WIRE		
WR390	QUB220-20DMHP-E	WIRE		950VB,950V E,950VEN,9 50VEV,650B .650E,650E N,650EV
X3001	QAX0711-002Z	CRYSTAL	8.000000MHZ	

Switch board

Block No. [0][2]

△ Symbol No.	Part No.	Part Name	Description	Local
IC800	KBJ4J	BRIDGE DIODE		
IC860	KIA78S06P-T	IC		
IC870	MM3143DN-X	IC		
Q6800	KRC111S-X	TRANSISTOR		
Q8000	KRC102S-X	DIGI TRANSISTOR		
D5100	MA111-X	SI DIODE		
D5101	MA111-X	SI DIODE		
D5300	STZC6.8N-X	USB ESD DIODE		
D5301	MA8056/M/-X	Z DIODE		
D6800	SLR-343VC-T	LED		
D6801	SELT2E10C-S	LED		950VB, 950VE, 950VE N,950V EV,950 VEE
D6802	MA8068/M/-X	Z DIODE		950VB, 950VE, 950VE N,950V EV,950 VEE
D8000	MA111-X	SI DIODE		
D8001	RL202-B322-1	SI DIODE		
D8002	RL202-B322-1	SI DIODE		
D8003	RL202-B322-1	SI DIODE		
D8004	RL202-B322-1	SI DIODE		
C5000	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C5001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C5002	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C5003	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C5100	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C5101	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C5102	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C5301	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C5302	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5303	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C5304	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C8000	QCZ9133-472	C CAPACITOR	4700pF	
C8001	QEZ0797-108Z	E CAPACITOR	1000uF	
C8100	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J	
C8600	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C8700	NCB31CK-105X	C CAPACITOR	1uF 16V K	
R6501	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R6502	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R6503	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R6504	NRSA63J-113X	MG RESISTOR	11kΩ 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local
R6601	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R6602	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R6603	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R6604	NRSA63J-113X	MG RESISTOR	11kΩ 1/16W J	
R6701	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R6702	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R6800	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
△ T8001	QQT0253-013	POWER TRANSF		
CN502	QGA2501C1-05	CONNECTOR	W-B (1-5)	
CN503	QGA2501C1-02	CONNECTOR	W-B (1-2)	
CN602	QGF1208F1-11	CONNECTOR	FFC/FPC (1-11)	
△ CN800	QGA7901C1-02	CONNECTOR	W-B (1-2)	
CN804	QGA3901C1-05	CONNECTOR	W-B (1-5)	
CN805	QGA7901C1-02	CONNECTOR	W-B (1-2)	
EP500	QNZ0136-001Z	EARTH PLATE		
EP501	QNZ0136-001Z	EARTH PLATE		
EP502	QNZ0136-001Z	EARTH PLATE		
EP503	QNZ0136-001Z	EARTH PLATE		
FT810	QNG0003-001Z	FUSE CLIP		
FT811	QNG0003-001Z	FUSE CLIP		
FT820	QNG0003-001Z	FUSE CLIP		
FT821	QNG0003-001Z	FUSE CLIP		
J5000	QNS0188-001	JACK		
J5100	QNS0188-001	JACK		
J5300	QNZ0851-001	USB CONNECTOR		
J6800	QSW1060-001	ROTARY SW		
K5300	QQR0621-001Z	FERRITE BEADS		
K5301	QQR0621-001Z	FERRITE BEADS		
K5302	NQR0627-002X	FERRITE	1.5K/ 100MHz200mA0.4R	
K5303	NQR0627-002X	FERRITE	1.5K/ 100MHz200mA0.4R	
K6500	NQR0627-002X	FERRITE	1.5K/ 100MHz200mA0.4R	
K6600	NQR0627-002X	FERRITE	1.5K/ 100MHz200mA0.4R	
K6700	NQR0627-002X	FERRITE	1.5K/ 100MHz200mA0.4R	
K6800	QQR0621-001Z	FERRITE BEADS		
△ LF800	QQR1321-001	LINE FILTER		
△ RY800	QSK0129-002	RELAY		
S6500	QSW0683-001Z	PUSH SW		
S6501	QSW0683-001Z	PUSH SW		
S6502	QSW0683-001Z	PUSH SW		
S6503	QSW0683-001Z	PUSH SW		
S6504	QSW0683-001Z	PUSH SW		
S6600	QSW0683-001Z	PUSH SW		
S6601	QSW0683-001Z	PUSH SW		
S6602	QSW0683-001Z	PUSH SW		
S6603	QSW0683-001Z	PUSH SW		
S6604	QSW0683-001Z	PUSH SW		
S6700	QSW0683-001Z	PUSH SW		
S6701	QSW0683-001Z	PUSH SW		
S6702	QSW0683-001Z	PUSH SW		
WC501	QZW0112-002	WIRE CLAMP		
WR500	QUM154-22DGZ4-E	FLAT WIRE		
WR501	WJP0106-001A-E	FPC CONNE		
WR801	QUM155-14DGZ4-E	FLAT WIRE		
WR802	QUM154-14DGZ4-E	FLAT WIRE		
WR803	QUM153-14DGZ4-E	FLAT WIRE		

DVD module board

Block No. [0][3]

△ Symbol No.	Part No.	Part Name	Description	Local
IC201	LA6502-X	IC		
IC301	MN2DS0018MA	IC		
IC302	MM1701CH-X	IC		
IC303	XC2164A51FM-X	IC		
IC305	MM3233DF-X	IC		
IC453	S-80830CNNB-G-W	IC		
IC505	K4S641632K-UC75	IC		

△ Symbol No.	Part No.	Part Name	Description	Local
IC505	or K4S641632H-UC75	IC		
IC509	SG32M90TFICB29A	IC(PROGRAMED)		
IC510	S-24CS16A0I-G-X	IC		
IC701	AK4387ET-X	IC		
IC705	MM1615AN-X	IC		
IC801	MM1565AF-X	IC		
Q101	2SA1363/EF/-X	TRANSISTOR		
Q101	or KTA1001/Y/-X	TRANSISTOR		
Q102	2SC5383/E/-X	TRANSISTOR		
Q102	or 2SC4617/R/-X	TRANSISTOR		
Q103	2SA1363/EF/-X	TRANSISTOR		
Q103	or KTA1001/Y/-X	TRANSISTOR		
Q104	2SC5383/E/-X	TRANSISTOR		
Q104	or 2SC4617/R/-X	TRANSISTOR		
Q801	RT1P441C-X	DIGI TRANSISTOR		
Q801	or KRA104S-X	DIGI TRANSISTOR		
C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C102	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C104	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C105	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C106	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C107	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C108	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C109	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	
C201	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C202	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C204	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C205	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C206	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C210	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C211	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C217	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C251	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C256	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C257	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C258	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C259	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C260	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C261	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C262	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C263	NEAF1CM-107X	E CAPACITOR	100uF 16V M	
C301	NEAF0JM-227X	E CAPACITOR	220uF 6.3V M	
C302	NEAF0GM-476X	E CAPACITOR	47uF 4V M	
C303	NEAF0GM-476X	E CAPACITOR	47uF 4V M	
C304	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C305	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C306	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C307	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C309	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C310	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C312	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C313	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C314	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C315	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C316	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C318	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C319	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C320	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C321	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C322	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C323	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C324	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C325	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C326	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C328	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C330	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C331	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C332	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C333	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C334	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C335	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C337	NCB31HK-183X	C CAPACITOR	0.018uF 50V K	
C338	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C339	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	

△ Symbol No.	Part No.	Part Name	Description	Local
C340	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C341	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C345	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C347	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C348	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C349	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C350	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C351	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C352	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C353	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C354	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C356	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C359	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C370	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C371	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C372	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C373	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C374	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C375	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C378	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C379	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C380	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C381	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C383	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C391	NEAF0JM-227X	E CAPACITOR	220uF 6.3V M	
C392	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C393	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C455	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C551	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C554	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C555	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C557	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C558	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C559	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C560	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C562	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C563	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C564	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C704	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C706	NEAF1CM-106X	E CAPACITOR	10uF 16V M	
C707	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C711	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C712	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C713	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C740	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C801	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C802	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C803	NEAF0JM-227X	E CAPACITOR	220uF 6.3V M	
C804	NCB31HK-471X	C CAPACITOR	470pF 50V K	
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R103	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R104	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R105	NRS144J-180X	MG RESISTOR	18Ω 1/4W J	
R106	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R107	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R108	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R109	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R111	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R112	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R113	NRS144J-180X	MG RESISTOR	18Ω 1/4W J	
R114	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R115	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R116	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R117	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R125	NRSA63J-1R0X	MG RESISTOR	1Ω 1/16W J	
R127	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R128	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R131	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
R201	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R202	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R204	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R205	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R206	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R207	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R213	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local
R214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R219	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R220	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R221	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R251	NRS125J-R39X	MG RESISTOR	0.39Ω 1/2W J	
R259	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R290	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R291	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R303	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R304	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R306	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R307	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R309	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R310	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R311	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R314	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R316	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R317	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R318	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R323	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R324	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R325	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R326	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R333	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R334	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R335	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R336	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R337	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R338	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R339	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R340	NRSA63D-303X	MG RESISTOR	30kΩ 1/16W D	
R341	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	
R342	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R345	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R346	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R347	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R348	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R351	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R352	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R353	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R357	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R358	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R361	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R362	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R367	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R371	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R372	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R373	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R375	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R376	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R383	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R384	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R385	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R392	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R458	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R531	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R535	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R541	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R701	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R704	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R705	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R718	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R721	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R722	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R723	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R730	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R731	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R811	NRS181J-330X	MG RESISTOR	33Ω 1/8W J	
R812	NRS181J-330X	MG RESISTOR	33Ω 1/8W J	
R813	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R814	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R819	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R859	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R860	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R861	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
CN101	QGF0523F3-24W	CONNECTOR	FFC/FPC (1-24)	

△ Symbol No.	Part No.	Part Name	Description	Local
CN201	QGF1016F8-08W	CONNECTOR	FFC/FPC (1-8)	
CN701	QGF1016F8-25W	CONNECTOR	FFC/FPC (1-25)	
CN712	QGF1016F8-05W	CONNECTOR	FFC/FPC (1-5)	
CN801	QGF1016F8-05W	CONNECTOR	FFC/FPC (1-5)	
CN811	QGA2001F6-05X	CONNECTOR	W-B (1-5)	
K101	NQR0502-001X	FERRITE BEADS		
K351	NQR0502-001X	FERRITE BEADS		
K352	NQR0502-001X	FERRITE BEADS		
K353	NQR0502-001X	FERRITE BEADS		
K354	NQR0022-002X	FERRITE BEADS		
K501	NQR0502-001X	FERRITE BEADS		
K701	NQR0022-002X	FERRITE BEADS		
K702	NQR0022-002X	FERRITE BEADS		
K703	NQR0022-002X	FERRITE BEADS		
K704	NQR0022-002X	FERRITE BEADS		
K705	NQR0022-002X	FERRITE BEADS		
K706	NQR0022-005X	FERRITE BEADS		
K707	NQR0022-002X	FERRITE BEADS		
K708	NQR0022-002X	FERRITE BEADS		
K709	NQR0022-002X	FERRITE BEADS		
K710	NQR0022-002X	FERRITE BEADS		
K711	NQR0022-002X	FERRITE BEADS		
K720	NQR0022-002X	FERRITE BEADS		
K721	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K722	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K811	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K812	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
TH301	NAD0025-103X	N THERMISTOR	10kΩ	
X301	NAX0741-001X	CRYSTAL	27.000MHz	
X302	NAX0376-002X	CRYSTAL		

DVD loading switch board

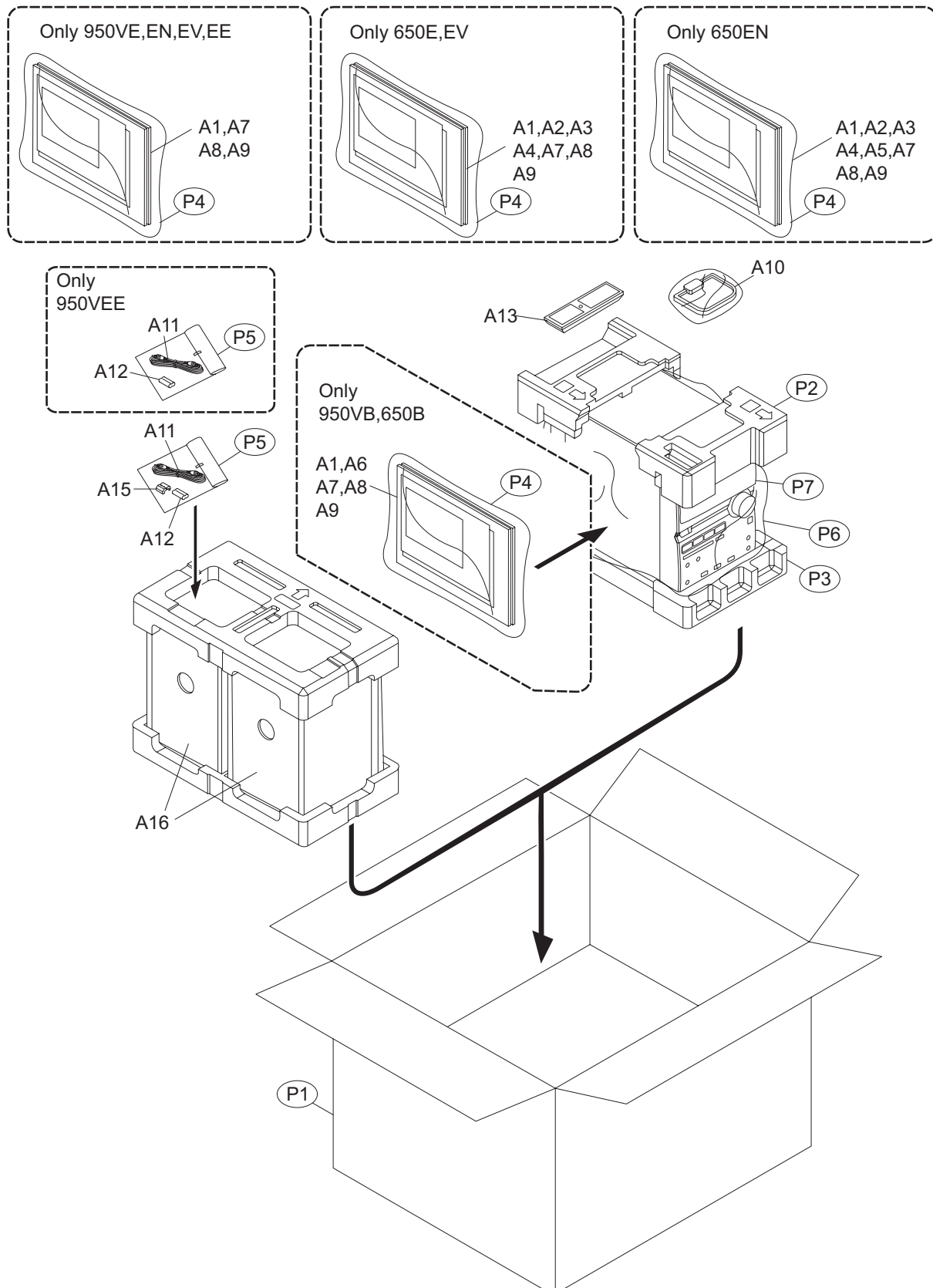
Block No. [0][4]

△ Symbol No.	Part No.	Part Name	Description	Local
CN1	QGF1016F9-05	CONNECTOR	FFC/FPC (1-5)	
S1	QSW1074-002	DETECT SWITCH		

Packing materials and accessories parts list

Block No. M 3 M M

No additional / supplemental order of WARRANTY CARDS are available.



Packing and Accessories

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

△	Symbol No.	Part No.	Part Name	Description	Local
	A 1	GVT0254-001A	INST BOOK	ENG	950VB
	A 1	GVT0254-002A	INST BOOK	GER FRE ITA DUT	950VE
	A 1	GVT0254-003A	INST BOOK	SPA DAN FIN SWE POR	950VEN
	A 1	GVT0254-004A	INST BOOK	HUN CZE POL	950VEV
	A 1	GVT0254-005A	INST BOOK	RUS	950VEE
	A 1	GVT0253-001A	INST BOOK	ENG	650B
	A 1	GVT0253-002A	INST BOOK	GER	650E
	A 1	GVT0253-006A	INST BOOK	SPA	650EN
	A 1	GVT0253-011A	INST BOOK	POL	650EV
	A 2	GVT0253-003A	INST BOOK	FRE	650E
	A 2	GVT0253-007A	INST BOOK	SWE	650EN
	A 2	GVT0253-012A	INST BOOK	HUN	650EV
	A 3	GVT0253-004A	INST BOOK	DUT	650E
	A 3	GVT0253-008A	INST BOOK	FIN	650EN
	A 3	GVT0253-013A	INST BOOK	CZE	650EV
	A 4	GVT0253-005A	INST BOOK	ITA	650E
	A 4	GVT0253-009A	INST BOOK	DAN	650EN
	A 4	GVT0253-014B	INST BOOK	RUS	650EV
	A 5	GVT0253-010A	INST BOOK	POR	650EN
	A 6	VNA3000-204	REGIST CARD		950VB,650B
	A 7	-----	WARRANTY CARD	BT-54036-1	950VB,950VE,950VEN,950VEV,950VEE,650B
	A 7	-----	WARRANTY CARD	BT-54035-1	650E,650EN,650EV
	A 8	GVT0252-001A	CAUTION SHEET		950VB,650B
	A 8	GVT0252-002A	CAUTION SHEET		950VE,950VEN,650E,650EN
	A 8	GVT0252-003A	CAUTION SHEET		950VEV,950VEE,650EV
	A 9	LVT1923-001A	CAUTION SHEET		
	A 10	QAL1123-001	AM LOOP ANT		
	A 11	QAL0457-001	ANT.WIRE		
△	A 12	-----	BATTERY	(x2)	
	A 13	RM-SUXG500VR	REMOTE CONTROL UNIT		950VB,950VE,950VEN,950VEV,950VEE
	A 13	RM-SUXG650R	REMOTE CONTROL UNIT		650B,650E,650EN,650EV
	A 15	QQR1607-001	FERRITE CORE		950VB,950VE,950VEN,950VEV,650B,650E,650EN,650EV
	A 16	SPUXG950V-SPBOX	SPK WITH BOX	(x2)	950VB,950VE,950VEN,950VEV,950VEE
	A 16	SPUXG650-SPBOX	SPK WITH BOX	(x2)	650B,650E,650EN,650EV
	P 1	GV31189-008A	CARTON BOX		950VB,950VE,950VEN,950VEV
	P 1	GV31189-009A	CARTON BOX		950VEE
	P 1	GV31189-010A	CARTON BOX		650B,650E,650EN,650EV
	P 2	GV10425-001A	CUSHION(TOP)		
	P 3	GV10426-001A	CUSHION(BOTTOM)		
	P 4	QPC02503515PB	POLY BAG	25cm x 35cm	
	P 5	QPA01202505	POLY BAG	12cm x 25cm	
	P 6	QPC05006515PB	POLY BAG	50cm x 65cm	
	P 7	GV40437-007A	CLOTH		

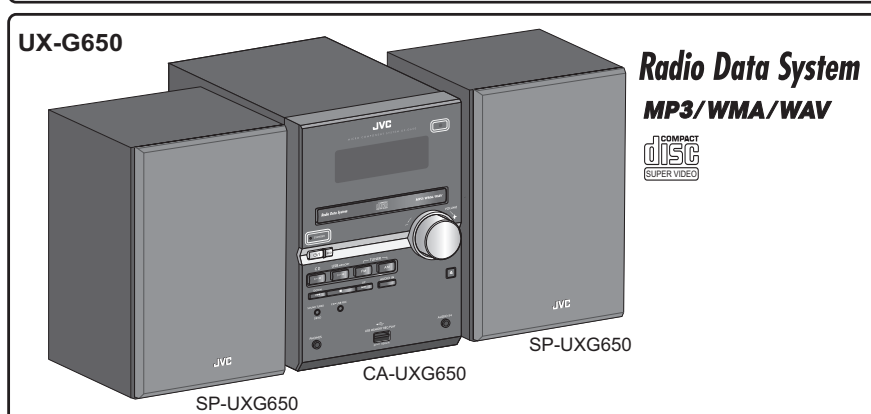
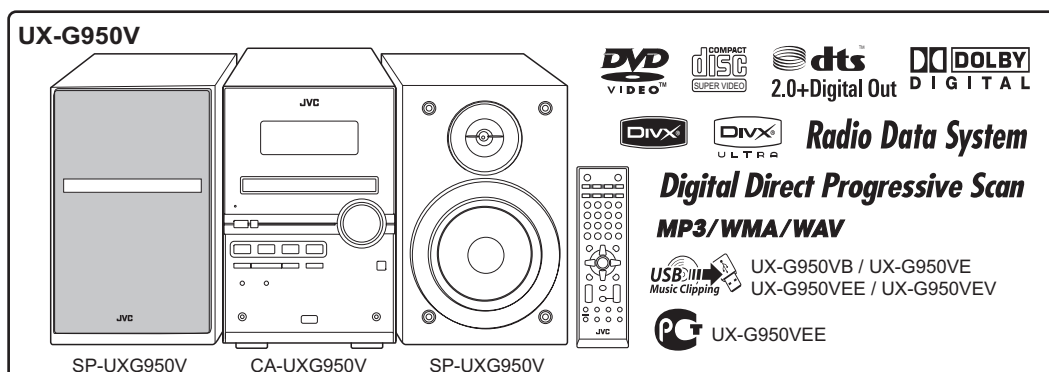
JVC

SCHEMATIC DIAGRAMS

MICRO COMPONENT SYSTEM

UX-G950VB, UX-G950VE, UX-G950VEN, UX-G950VEV, UX-G950VEE, UX-G650B, UX-G650E, UX-G650EN, UX-G650EV

DVD-ROM No.SML2008Q2



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

Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)

Contents

Block diagrams	2-1
Standard schematic diagrams	2-2
Printed circuit boards	2-11 to 13

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 "A" mark nearby are critical for safety.

The diagram illustrates the internal architecture of the Sony SL-9000 VCR, organized into several functional sections:

- Front panel section:** Includes the remote control (REMOCON), FL & Remocon, FL DISPLAY, FL DRIVER, LED DRIVE, ILLUMI, and key switch/LED & Encoder.
- System control section:** Contains the MICON (IC300), RESET (Q3301), SAFETY1 (Q3250), and various control registers like Q3710, Q3720, Q3730, Q3731, and Q3250.
- DVD servo & system control section:** Manages the DVD traverse mechanism, laser driver (IC201), driver (IC510), SDRAM (IC505), and various control registers and drivers.
- Loader section:** Controls the loading motor (M) and motor driver (IC901) via a tray switch (S1).
- Power section:** Includes the primary and regulator section with IC870, IC860, and IC800, and the power amp section with IC201, IC202, and IC203.
- Jack section:** Handles external inputs like USB, AUX IN, and HEAD PHONE.
- Other components:** Includes the tuner pack, composite/s video out, component video out, optical digital out, and subwoofer speaker.

The diagram shows a complex network of connections between these sections, including power lines, data lines, and control signals, ensuring the VCR's operation.

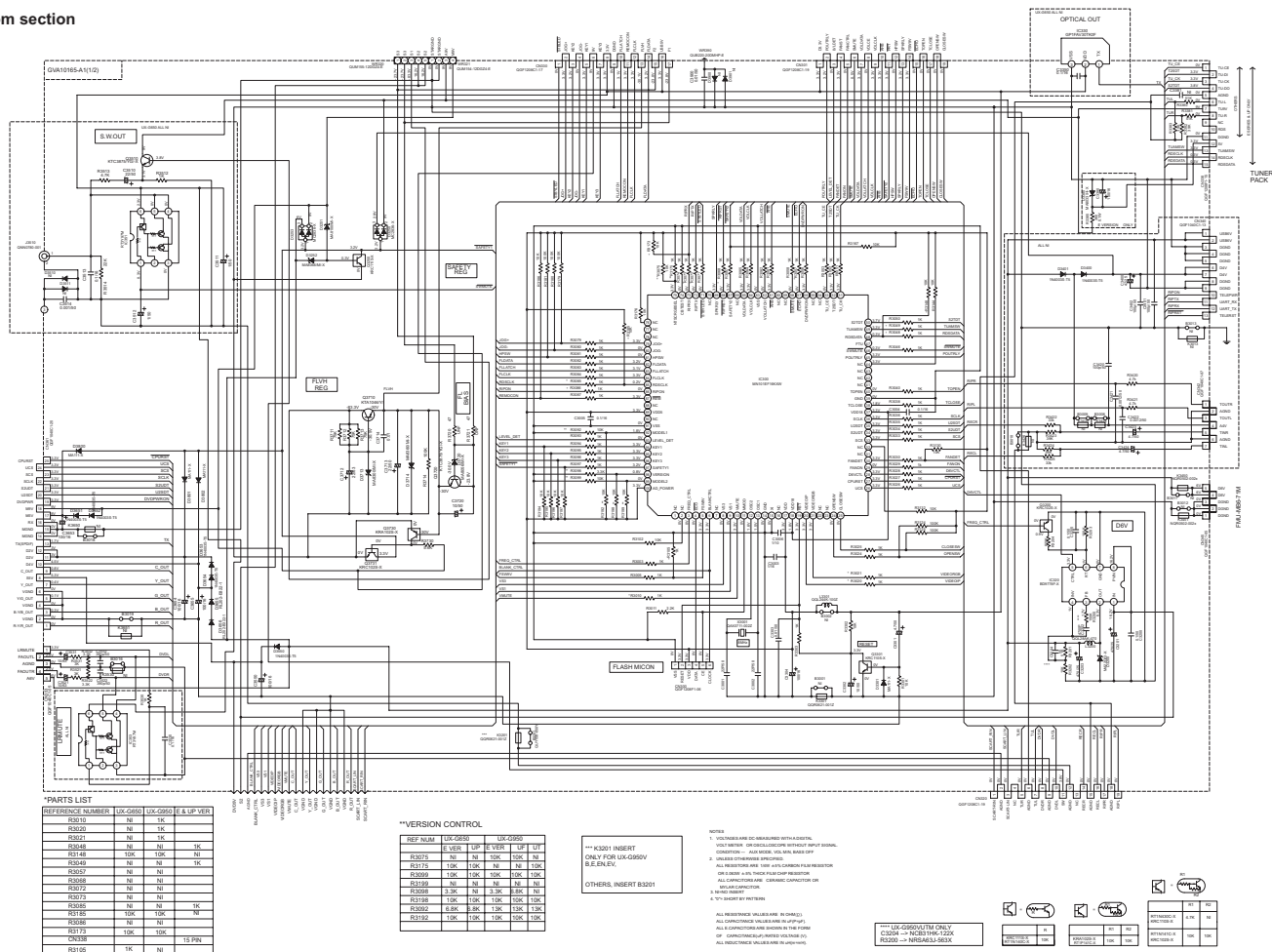
■ Primary section

2NOTES

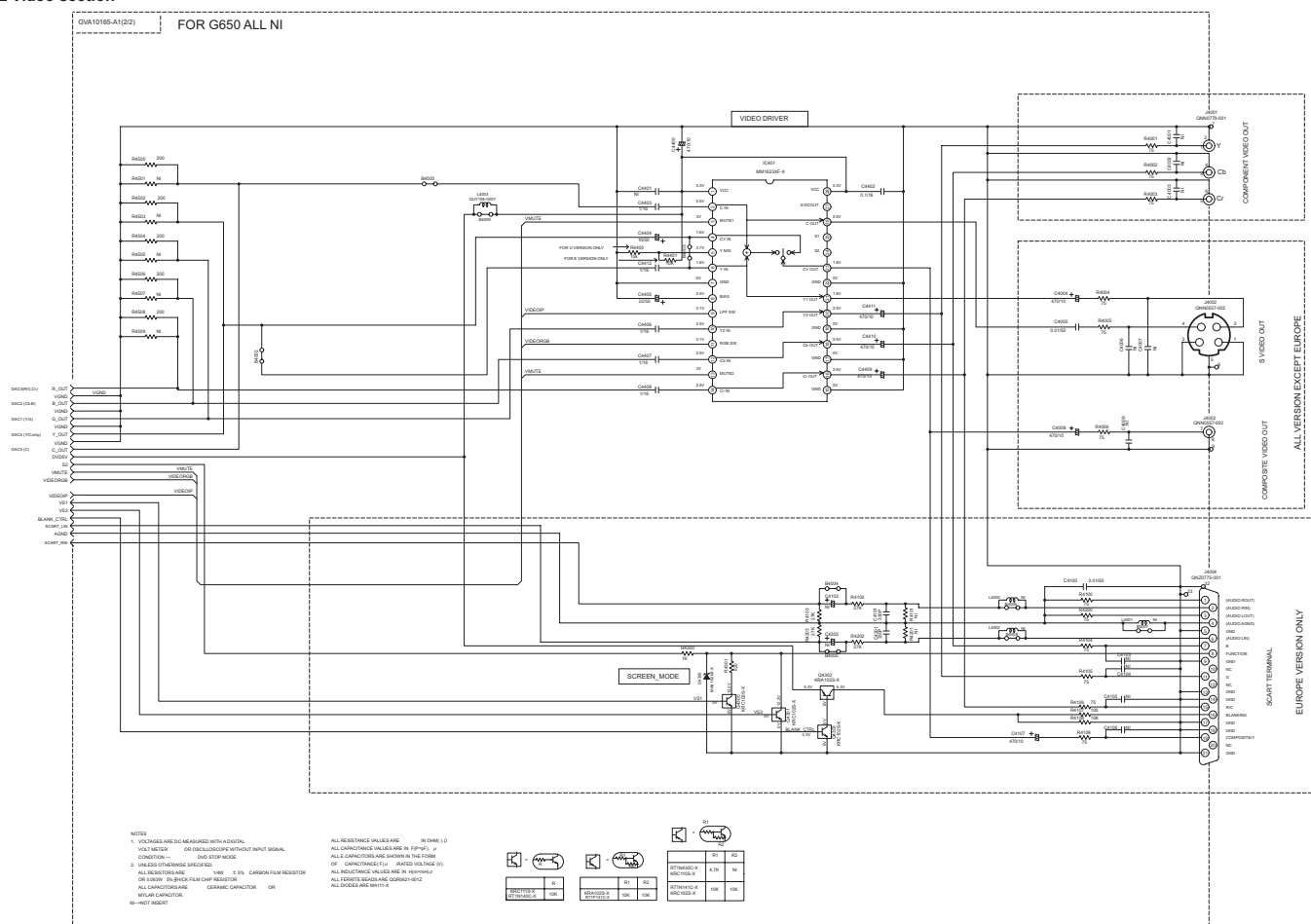
- ALL RESISTANCE VALUES ARE IN OHM (Ω).
ALL CAPACITANCE VALUES ARE IN μ F (μ F).
ALL CAPACITORS ARE SHOWN IN THE FORM
OF CAPACITANCE(μ F), RATED VOLTAGE (V).
ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE.

2-2

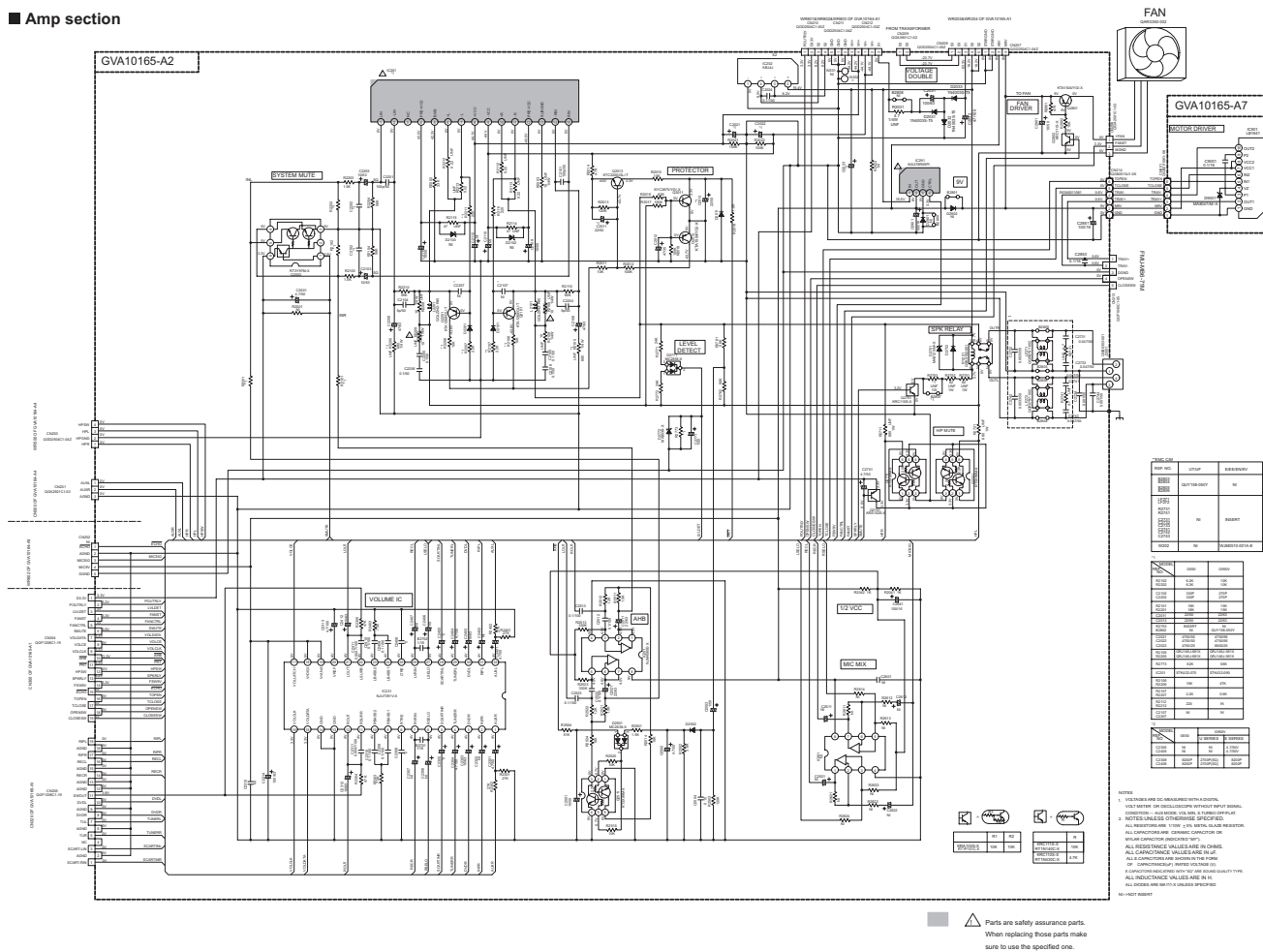
■ Micom section



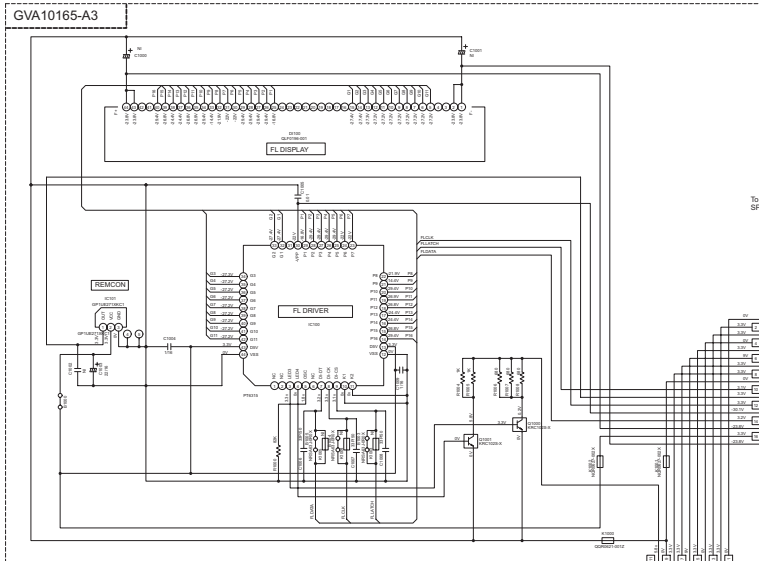
■ Video section



■ Amp section



■ LCD & Jack section



- NOTES
1. VOLTAGES ARE MEASURED WITH A DIGITAL VOLT METER, OR OSCILLOSCOPE WITHOUT INPUT SIGNAL CONDITION — A 100 MΩ VOL. MIN. BASS OFF
 2. UNLESS OTHERWISE SPECIFIED:
 - a. ALL RESISTORS ARE 100W ± 5% CARBON FILM RESISTOR OR 0.001W ± 5% THICK FILM CHIP RESISTOR
 - b. ALL CAPACITORS ARE CERAMIC CAPACITOR OR SILICATE CAPACITOR
 3. NPN INVERT
 4. 10% SHORT BY PATTERN
- ALL RESISTANCE VALUES ARE IN OHMS)
ALL CAPACITANCE VALUES ARE IN P-F/FEMTO
ALL C-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(F)/RATED VOLTAGE(V)
ALL INDUCTANCE VALUES ARE IN μH/μHENRY

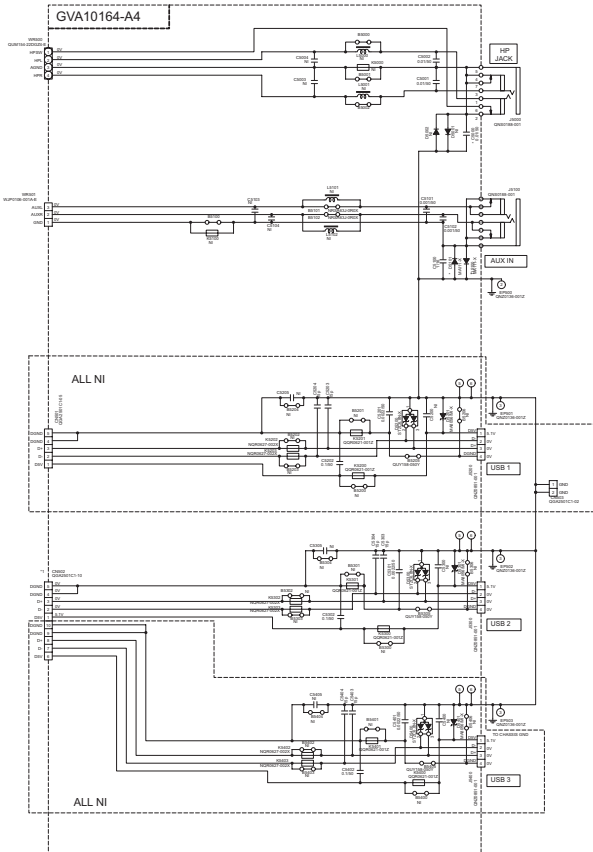
MODEL ACI NO	CRSD/CRSS	CRSDV
CRSD2	OSAS2CRSD1-08	OSAS2CRSD1-08

	R
RT1N140C-X	10K

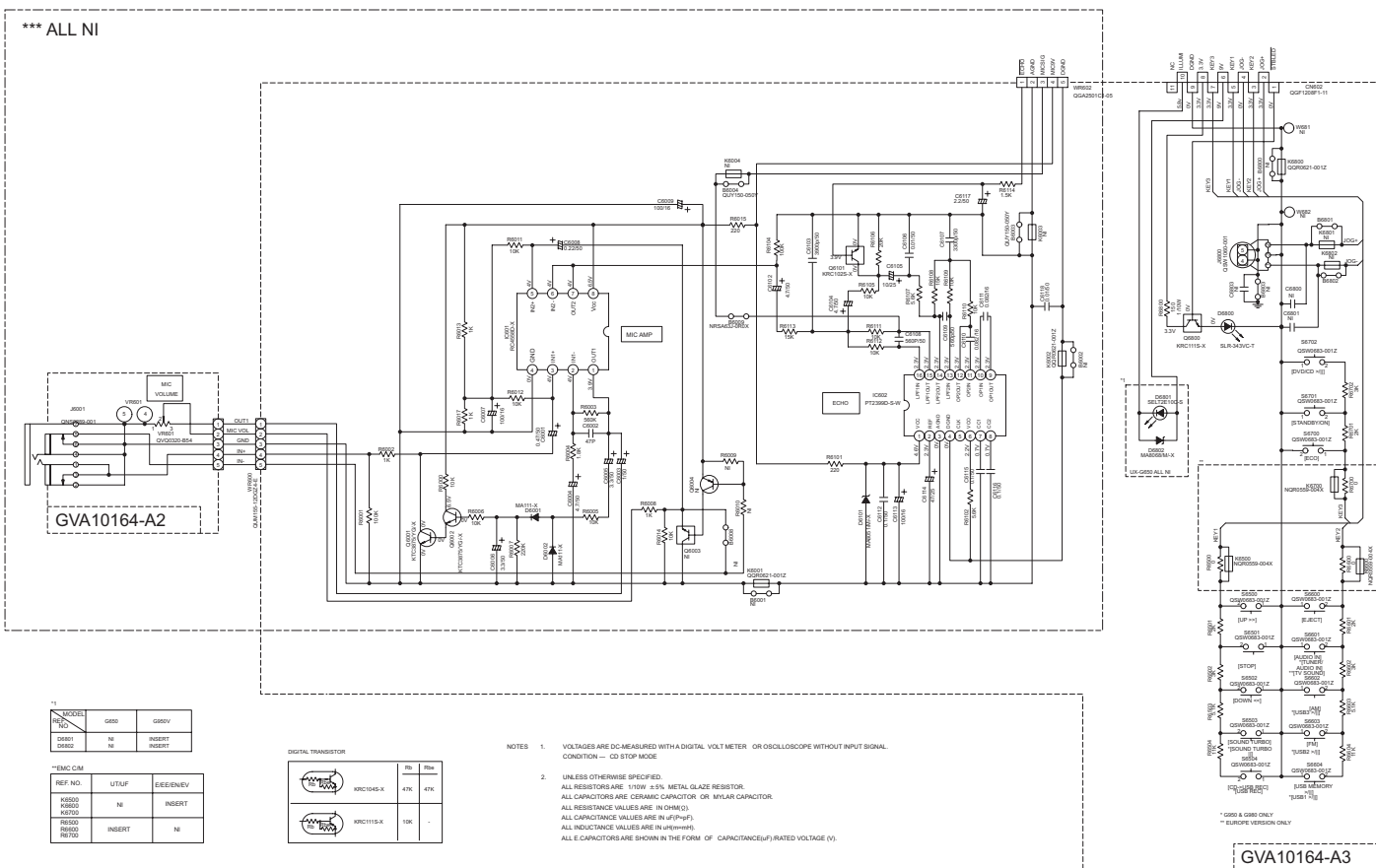
	R1	R2
KRA122G-K ATTENUATOR	10K	10

	R1	R2
RT1N630C-X KRC110G-X	4.7K	NI
RT1N649C-X KRC122G-X	10K	10K

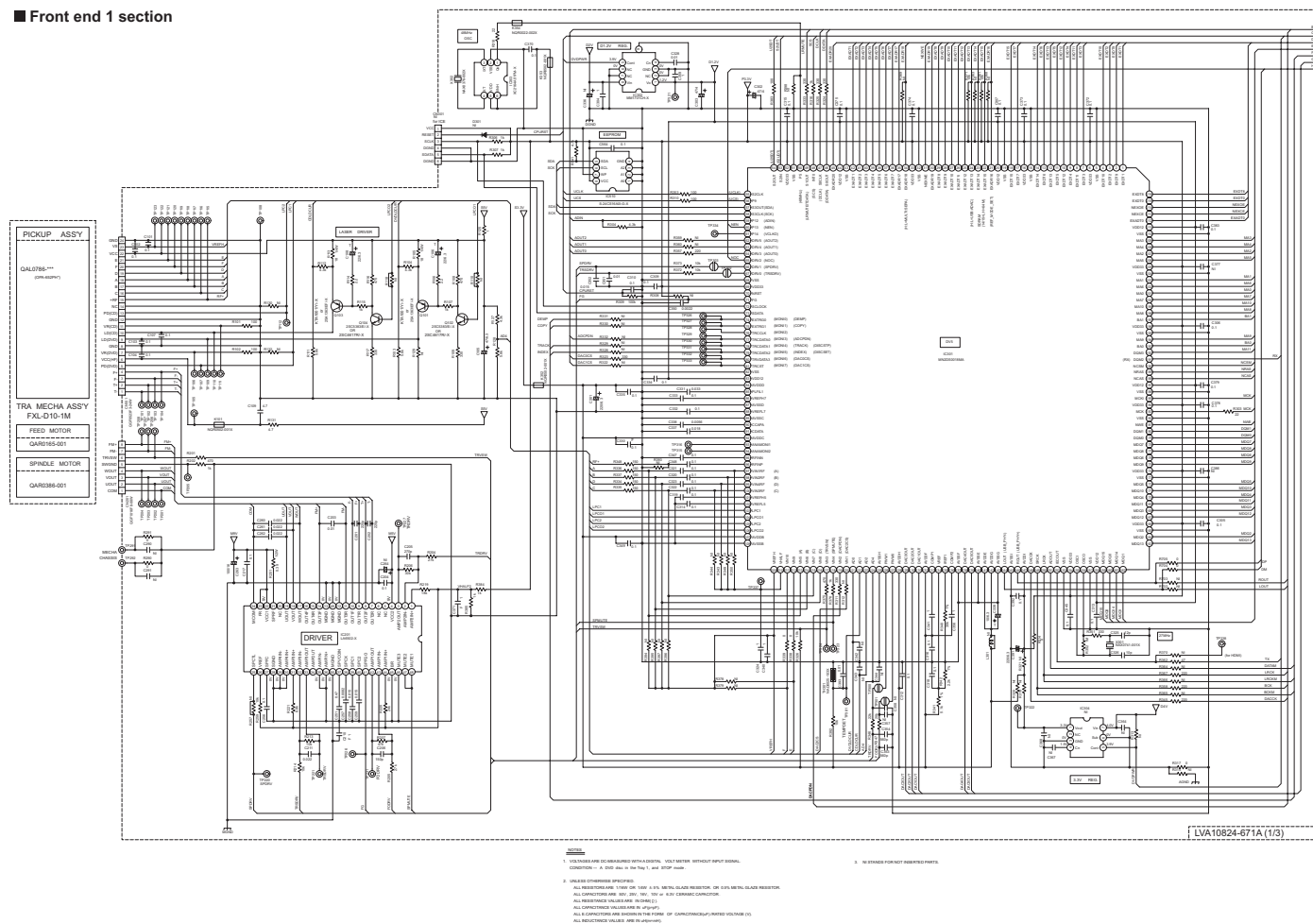
*UX-G950VJTM ONLY
C5000 → NCB31CK-105X
D5100 → DELETE
D5101 → DELETE



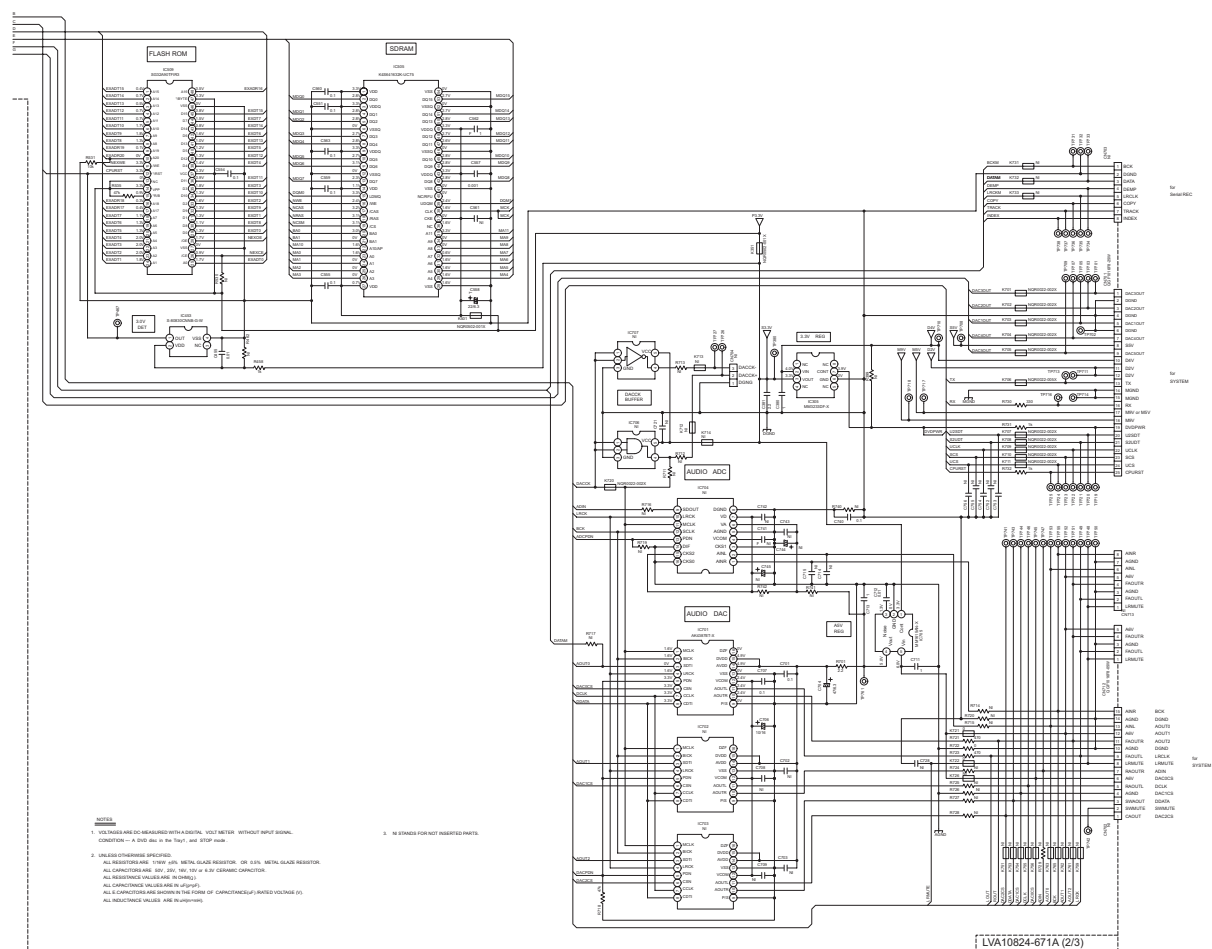
■ Mic & Key switch section



■ Front end 1 section



■ Front end 2 section

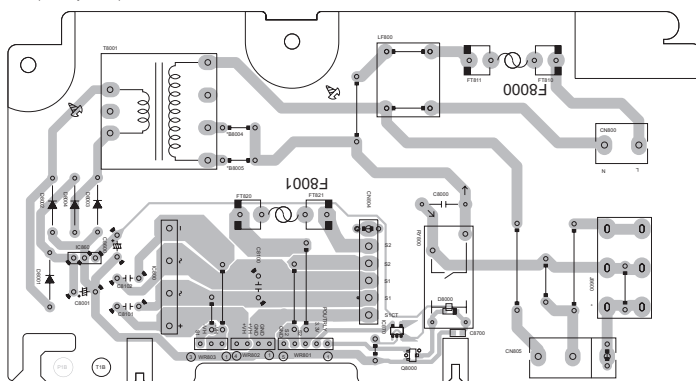


[illegible][illegible]

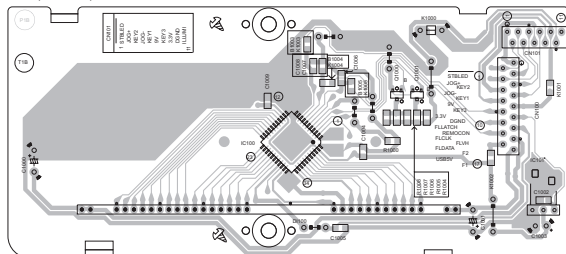
Printed circuit boards

- **Primary board** Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)
Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)

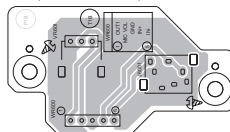
(Primary board)



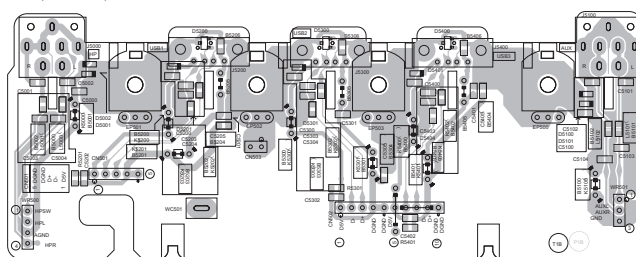
(FL board)



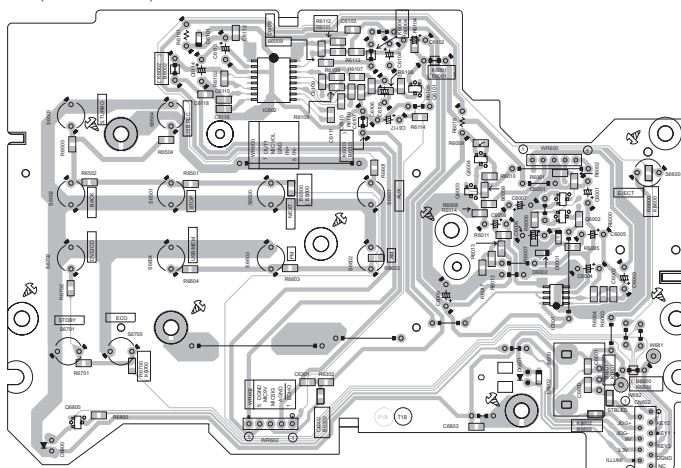
(Mic volume board)



(Jack board)

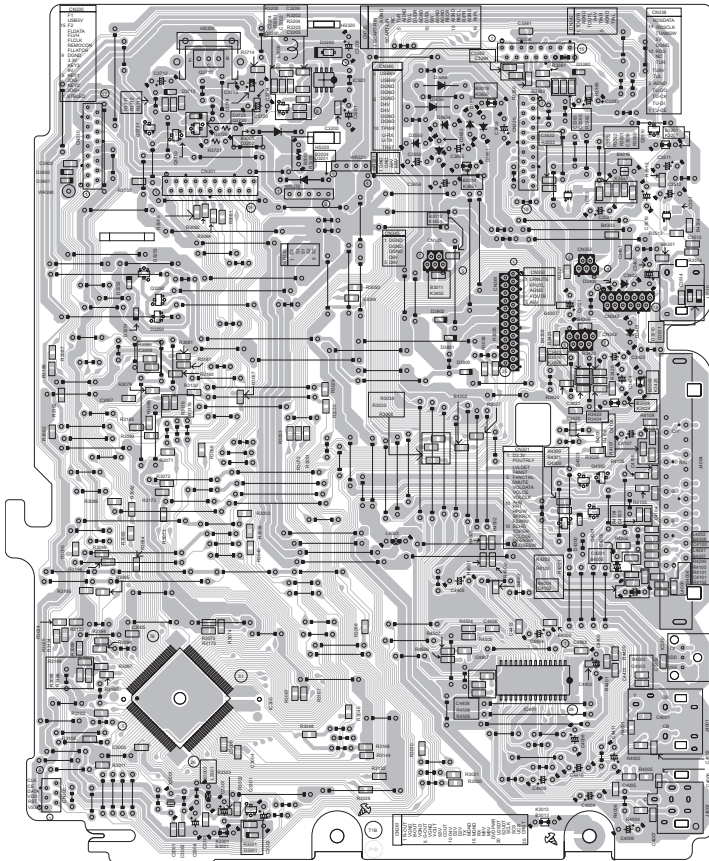


(Mic & Switch board)



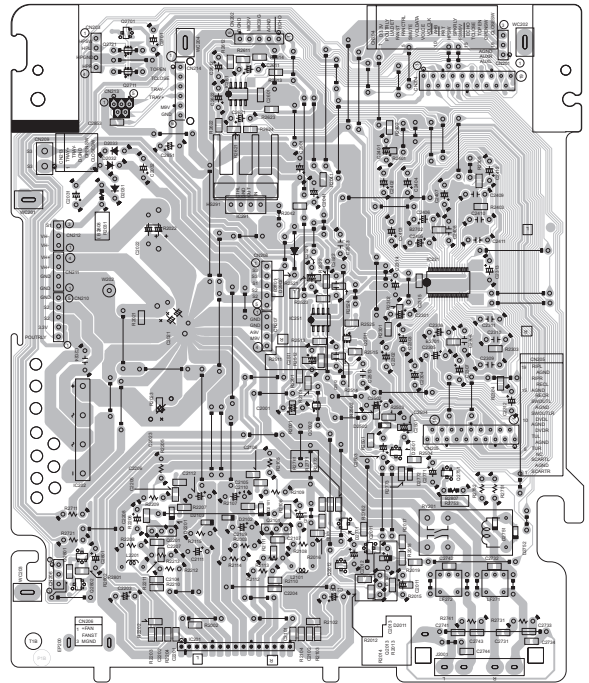
■ Micom board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)
Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)



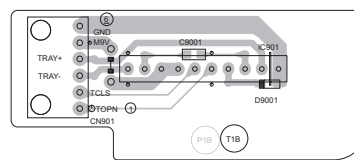
■ Amp board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)
Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)



■ Motor drive board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)
Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)

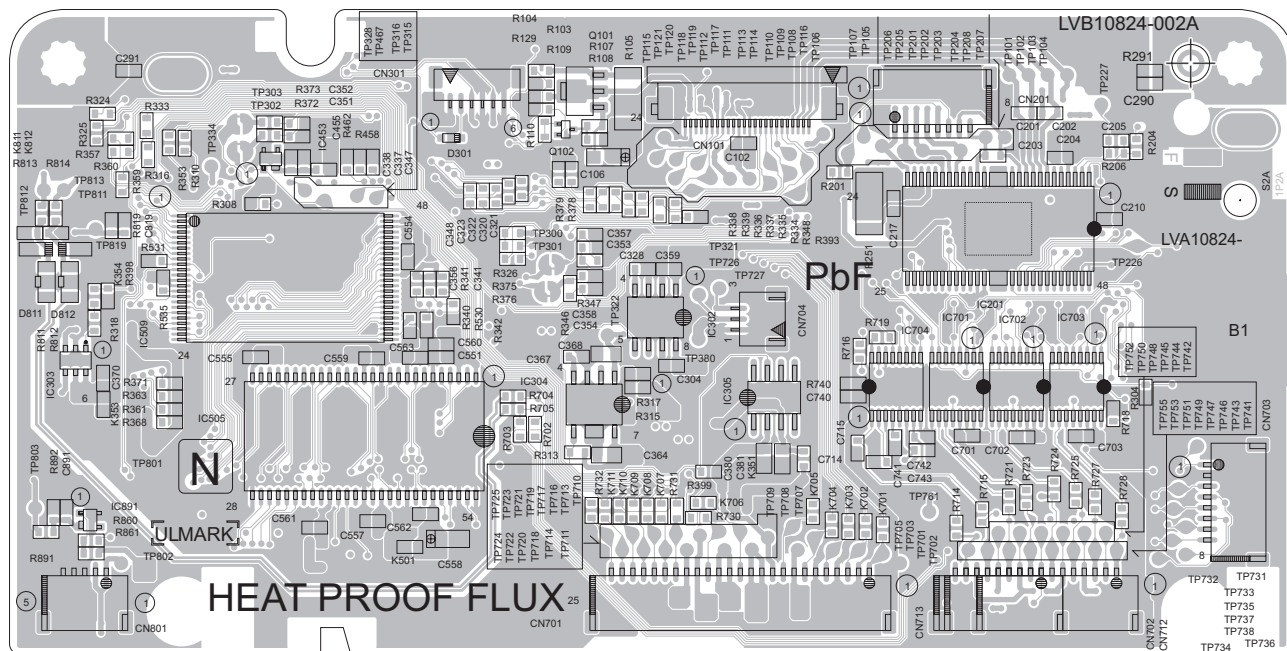


■ **Front end board** Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

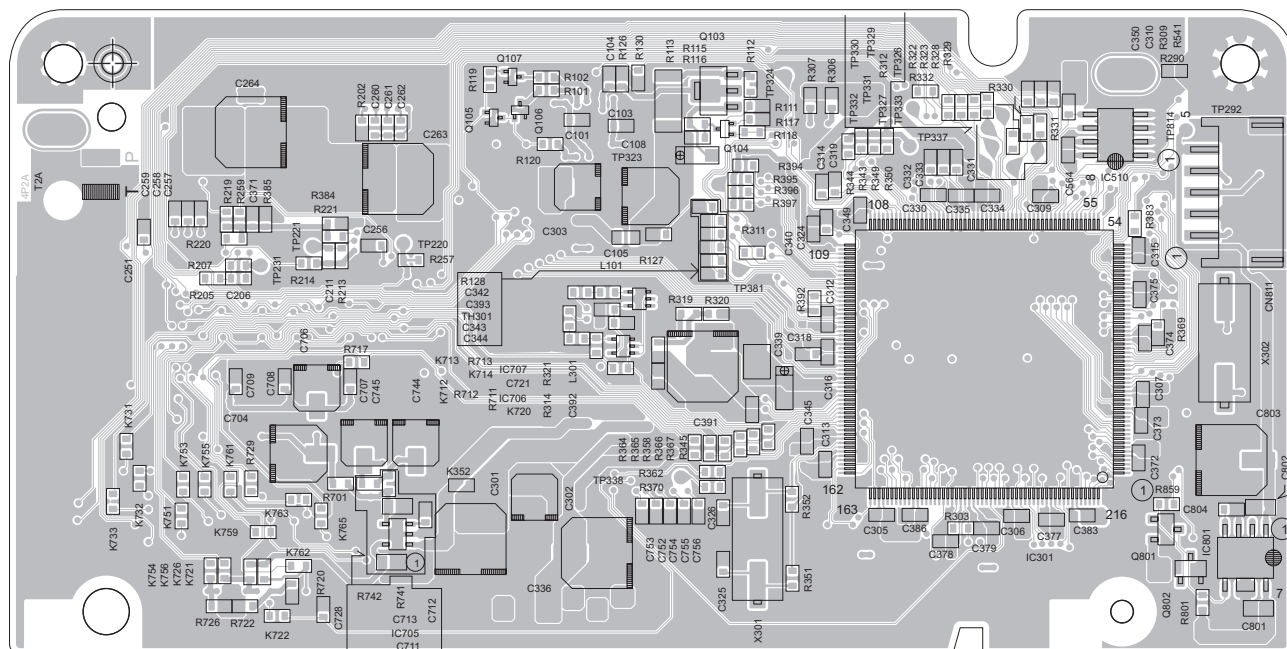
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)

forward side



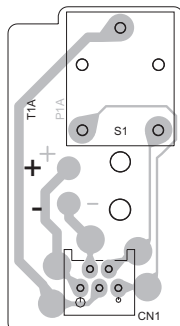
reverse side



■ Loader board

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

Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)





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