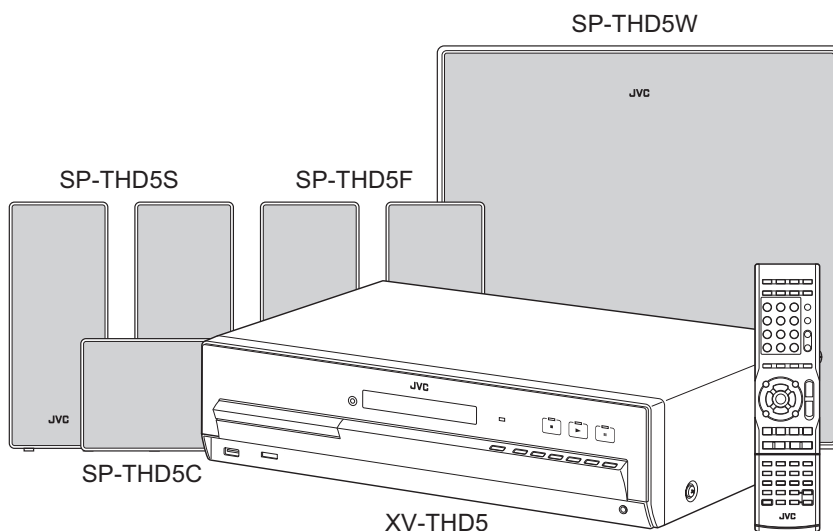


# JVC

## SERVICE MANUAL

DVD DIGITAL CINEMA SYSTEM

### TH-D5B, TH-D5E, TH-D5EN, TH-D5EV



*Radio Data System    Digital Direct Progressive Scan*

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

## Center unit (XV-THD5)

Output power	Front		140 W per channel RMS at 4 Ω at 1 kHz with 10 % total harmonic distortion.	
	Center		130 W RMS at 4 Ω at 1 kHz with 10 % total harmonic distortion.	
	Surround		130 W per channel RMS at 4 Ω at 1 kHz with 10 % total harmonic distortion.	
	Subwoofer		140 W RMS at 4 Ω at 100 Hz with 10 % total harmonic distortion.	
Audio section	Digital Input*1	DIGITAL IN	OPTICAL	-21 dBm to -15 dBm (660 nm ±30 nm)
Video section	Video System		PAL	
	Horizontal Resolution		500 lines	
	Signal-to-Noise Ratio (Composite signal when "RGB" is selected)		54 dB	
	Video Output Level	(AV-Scart)	Composite video	1.0 V(p-p)/75 Ω
			Y	1.0 V(p-p)/75 Ω
			C	0.3 V(p-p)/75 Ω
	(VIDEO OUT)	Component	(Y): 1.0 V(p-p)/75 Ω (PB/PR): 0.7V(p-p)/75Ω	
Video Input Sensitivity/Impedance (VIDEO IN)		Composite	1.0 V(p-p)/75 Ω	
		S-video	(Y): 1.0 V(p-p)/75 Ω (C): 0.3 V(p-p)/75 Ω	
HDMI	HDMI Output (MONITOR OUT)		576p/720p/1080i	
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	
Tuner section	Tuner Range	FM	87.50 MHz to 108.00 MHz	
		AM (MW)	522 kHz to 1 629 kHz	
General	Power Requirements		AC 230 V , 50 Hz	
	Power Consumption		160 W (during operation)	
			1.0 W (in standby mode)	
	Dimensions (W × H × D)		435 mm × 115 mm × 270 mm	
	Mass		6.8 kg	

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

**Subwoofer (SP-THD5W)**

Type	Bass-Reflex Type
Speaker	16 cm cone × 1
Power Handling Capacity	140 W
Impedance	4 Ω
Frequency Range	30 Hz to 200 Hz
Sound Pressure Level	75 dB/W•m
Dimensions (W × H × D)	353.5 mm × 351 mm × 174 mm
Mass	6.3 kg

**Satellite speakers**

Front speakers (SP-THD5F)	Type	1-Way Bass-Reflex Type (Magnetically Shielded Type)
	Speaker	8 cm cone × 1
	Power Handling Capacity	140 W
	Impedance	4 Ω
	Frequency Range	90 Hz to 20 000 Hz
	Sound Pressure Level	80 dB/W•m
	Dimensions (W × H × D)	98.5 mm × 214.5 mm × 93.5 mm
	Mass	1.0 kg each
Center speaker (SP-THD5C)	Type	1-Way 2-Speaker Bass-Reflex Type (Magnetically Shielded Type)
	Speaker	8 cm cone × 2
	Power Handling Capacity	140 W
	Impedance	4 Ω
	Frequency Range	90 Hz to 20 000 Hz
	Sound Pressure Level	84 dB/W•m
	Dimensions (W × H × D)	435 mm × 99 mm × 93.5 mm
	Mass	2.0 kg
Surround speakers (SP-THD5S)	Type	1-Way Bass-Reflex Type (Magnetically Shielded Type)
	Speaker	8 cm cone × 1
	Power Handling Capacity	140 W
	Impedance	4 Ω
	Frequency Range	90 Hz to 20 000 Hz
	Sound Pressure Level	76 dB/W•m
	Dimensions (W × H × D)	98.5 mm × 214.5 mm × 93.5 mm
	Mass	0.85 kg each

Designs & specifications are subject to change without notice.

# SECTION 1 PRECAUTION

## 1.1 Safety Precautions

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

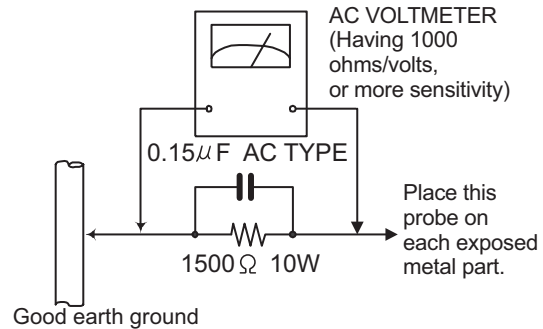
### (5) Leakage shock hazard testing

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 part 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 $\Omega$  per volt or more sensitivity in the following manner. Connect a 1,500 $\Omega$  10W resistor paralleled by a 0.15 $\mu$ F AC-type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC

voltmeter.

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



## 1.2 Warning

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

## 1.3 Caution

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

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

## 1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (■) and ICP (●) or identified by the " $\Delta$ " 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 does 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

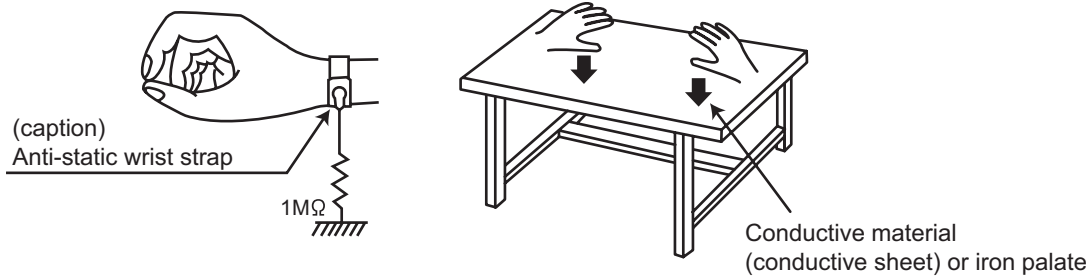
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products. Be careful to use proper grounding in the area where repairs are being performed.

(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.

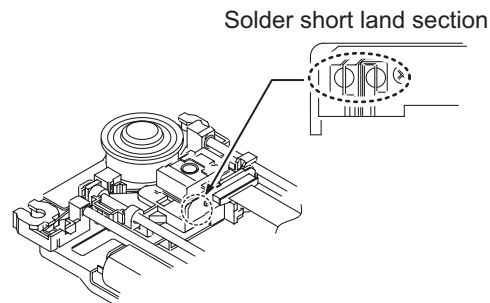
(3) Handle the flexible cable carefully as it may break when subjected to strong force.

(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.

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

**VARO!** Avattaessa olet alttiina nakyyvalle ja/tai näkymättömälle luokan 1M lasersateilylle. Älä tarkastele sitä optisen laitteen läpi.

**ADVASEL:** Synlig og/eller usynlig klasse 1M-laserstrålning 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。

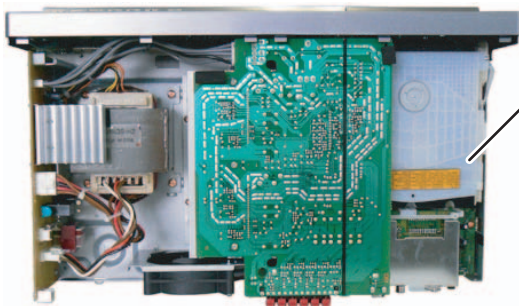
**注意:** 打开蓋板可能会产生可见或不可见的 1M 级辐射。不要使用光学仪器直接进行窥视。

**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



<b>CAUTION</b> VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	<b>ATTENTION</b> RAYONNEMENT LASER DE CLASSE 1M INVISIBLE ET/OU VISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	<b>AVISO</b> RADIACIÓN LASER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL OPTICO. (ESP)	<b>WARNING</b> SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	<b>注意</b> ニニも顯くと不可視 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 見ないでください。 (JPN)	<b>CAUTION</b> 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

#### 3.1.1 Removing the METAL COVER (See Fig.1, 2)

- (1) Remove the four screws **A** attaching the METAL COVER. (See Fig.1)
- (2) Remove the one screw **B** attaching the METAL COVER by use TORX driver. (See Fig.1)

**TROX driver: size T 10**

**Parts number: DR-L70**

- (3) Remove the two screws **C** attaching the both side of METAL COVER. (See Fig.2)

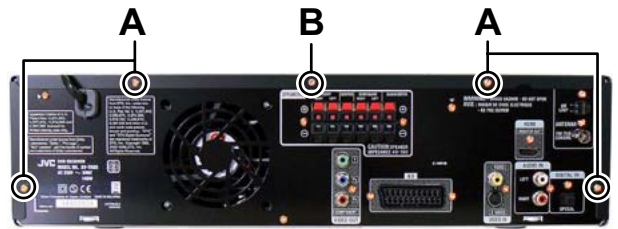


Fig.1

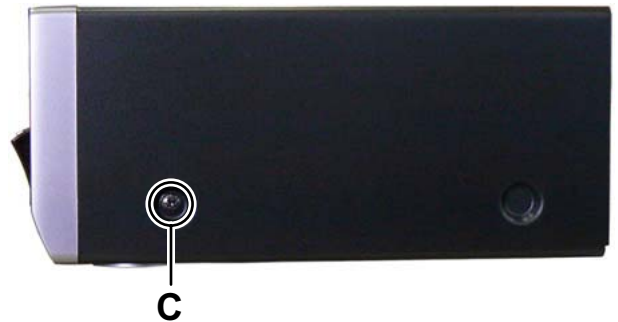


Fig.2

#### 3.1.2 Removing the REAR PANEL (See Fig.3)

- (1) Remove the power cord from POWER BOARD assembly.
- (2) Remove the two screws **D** attaching the TUNER PACK and then disconnect the card wire from connector **CN205** of the MAIN BOARD assembly.
- (3) Remove the three screws **E** attaching the AMP BOARD assembly.
- (4) Remove the one screw **F** attaching the POWER BOARD assembly.
- (5) Remove the one screw **G** attaching the HDMI BOARD assembly.
- (6) Remove the six screws **H** attaching the each I/O jack.
- (7) Remove the one screw **J** attaching the REAR PANEL.

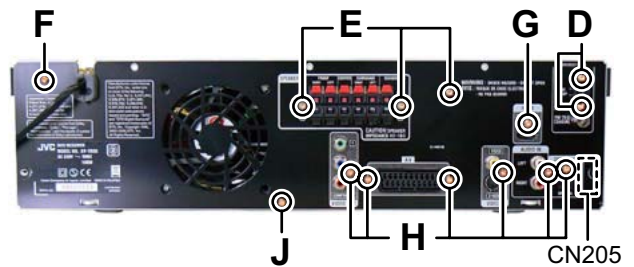


Fig.3

### 3.1.3 Removing the AMP BOARD assembly (See Fig.4)

- (1) Disconnect the connector wire from POWER BOARD assembly connected to connector [CN501](#) of the AMP BOARD assembly.
- (2) Remove the two screws **K** attaching the HEAT SINK BRACKET.
- (3) Remove the three screws **L** attaching the AMP BOARD assembly.
- (4) Disconnect the CONNECTION BOARD assembly connected connector [CN504](#) of the AMP BOARD assembly.

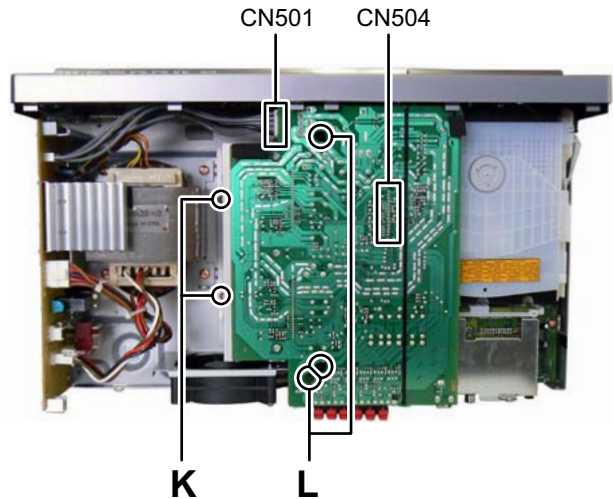


Fig.4

### 3.1.4 Removing the DVD MECHANISM assembly (See Fig.5)

- (1) Disconnect the connector wire from MAIN BOARD assembly connected to connector [CN811](#) of the DVD BOARD assembly.
- (2) Disconnect the card wires from DVD BOARD assembly connected to connector [CN201](#), [CN202](#) and [CN204](#) of the MAIN BOARD assembly.
- (3) Disconnect the card wire from DVD MECHANISM assembly connected to connector [CN212](#) of the MAIN BOARD assembly.
- (4) Remove the one screw **M** attaching the DVD MECHANISM assembly.

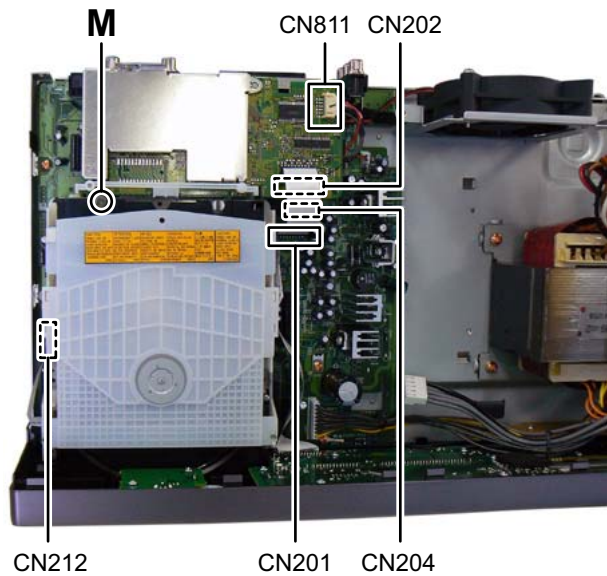


Fig.5



### 3.1.5 Removing the FRONT PANEL assembly (See Fig.6 to 8)

- (1) Disconnect the card wire from FRONT PANEL assembly connected to connector **CN211** of the MAIN BOARD assembly. (See Fig.6)
- (2) Remove the one screw **N** attaching the EARTH WIRE from FRONT PANEL assembly. (See Fig.6)
- (3) Remove the one screw **P** attaching the EARTH WIRE from USB BOARD assembly. (See Fig.6)
- (4) Remove the three screws **Q** attaching the FRONT PANEL assembly. (See Fig.7).
- (5) Disengage hook **a** of bottom side and two hooks **b** of the both side of FRONT PANEL assembly. (See Fig.7, 8)

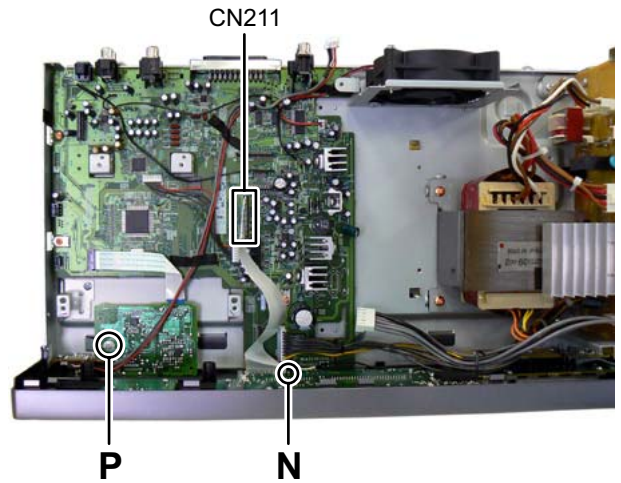


Fig.6

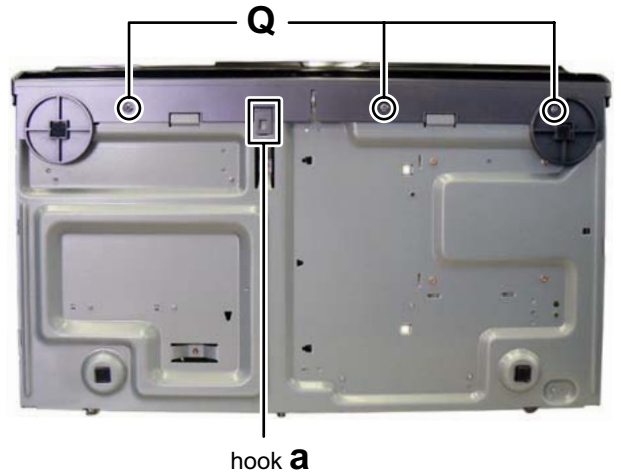


Fig.7

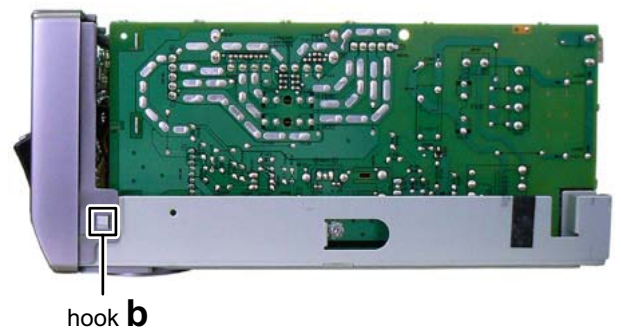


Fig.8

### 3.1.6 Removing the iPod BOARD assembly (See Fig.9)

- (1) Disconnect the card wire from iPod BOARD assembly connected to connector [CN210](#) of the MAIN BOARD assembly.

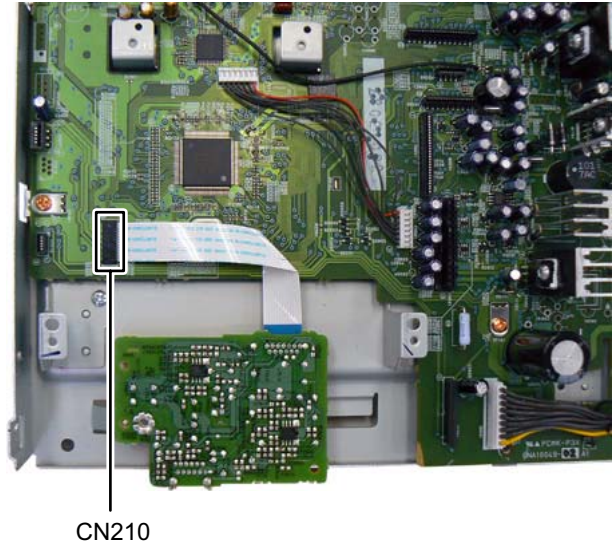


Fig.9

### 3.1.7 Removing the POWER BOARD assembly (See Fig.10 to 12)

- (1) Disconnect the connector wire from POWER BOARD assembly connected to connector [CN151](#) of the MAIN BOARD assembly. (See Fig.10)
- (2) Disconnect the connector wires from POWER TRANSFORMER connected to connector [CN102](#) and [CN103](#) of the POWER BOARD assembly. (See Fig.11)
- (3) Remove the one screw **R** attaching the POWER BOARD assembly. (See Fig.11)
- (4) Remove the two screws **S** attaching the POWER BOARD assembly. (See Fig.12)
- (5) Disconnect the connector wire from POWER TRANSFORMER connected to connector [CN104](#) of the POWER BOARD assembly. (See Fig.11)

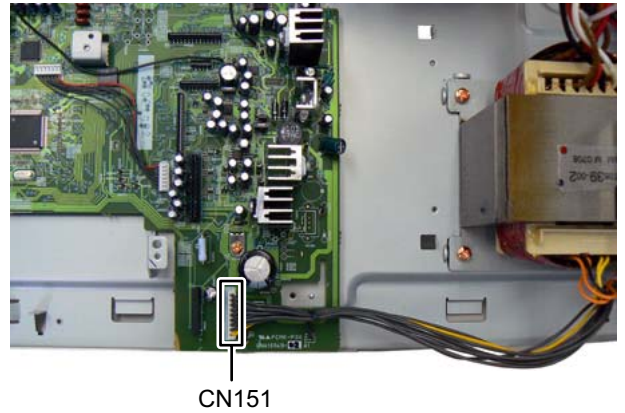


Fig.10

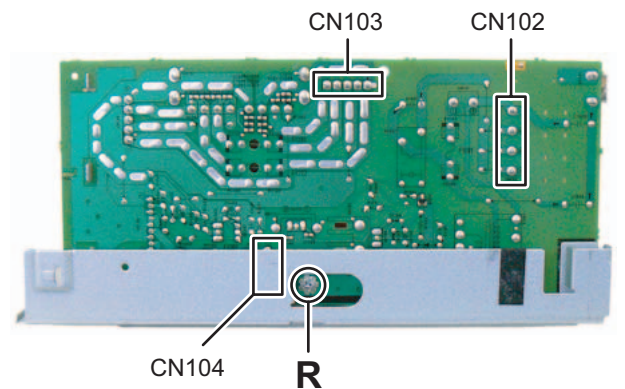


Fig.11

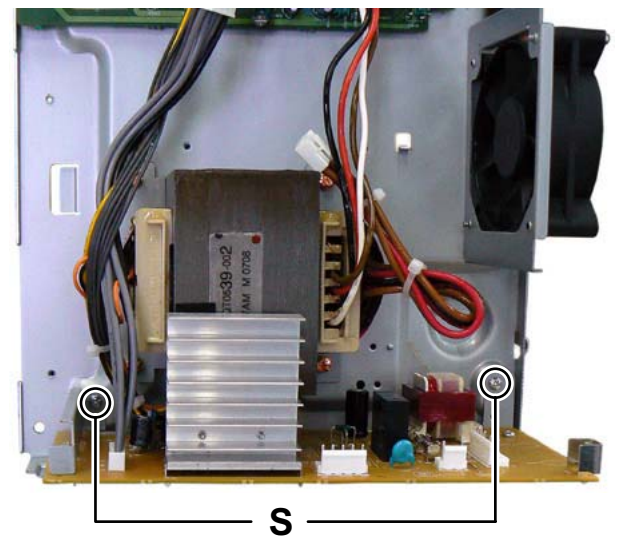


Fig.12

### 3.1.8 Removing the MAIN BOARD assembly (See Fig.13)

- (1) Disconnect the connector wire from Fan connected to connector **CN152** of the MAIN BOARD assembly.
- (2) Remove the four screws **T** attaching the MAIN BOARD assembly.

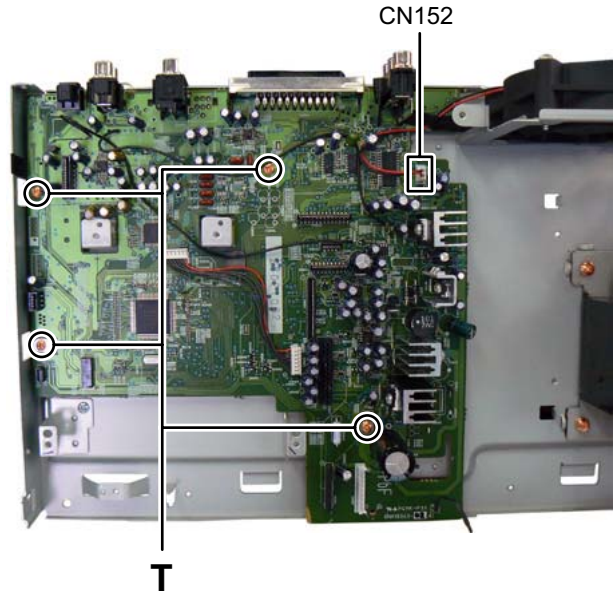


Fig.13

### 3.1.9 Removing the USB BOARD assembly (See Fig.14)

- (1) Remove the two screws **U** attaching the USB BOARD assembly.

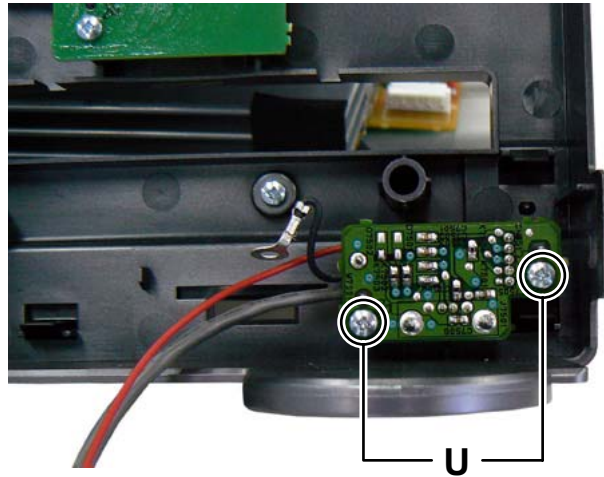


Fig.14

### 3.1.10 Removing the VFD BOARD assembly (See Fig.15, 16)

- (1) Remove the two screws **V** attaching the BRACKET BOARD. (See Fig.15)
- (2) Remove the two screws **W** attaching the HEAD PHONE BOARD assembly. (See Fig.15)
- (3) Disconnect the card wire from TOUCH BOARD assembly connected to connector **CN601** of the VFD BOARD assembly. (See Fig.16)
- (4) Remove the two screws **X** attaching the LED BOARD assembly. (See Fig.16)
- (5) Remove the ten screws **Y** attaching the VFD BOARD assembly. (See Fig.16)

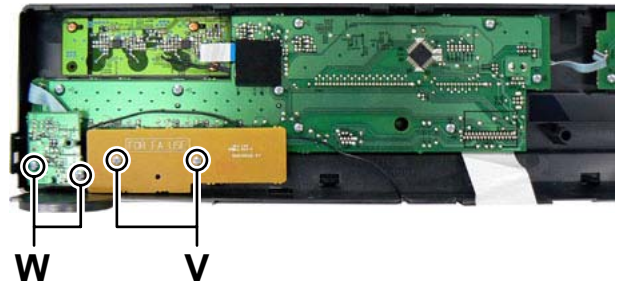


Fig.15

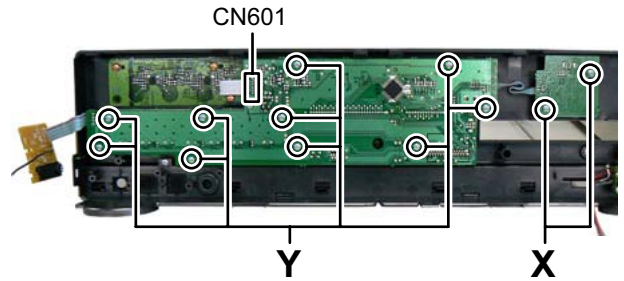


Fig.16

### 3.1.11 Removing the TOUCH BOARD assembly (See Fig.17)

- (1) Remove the three screws **Z** attaching the TOUCH BOARD assembly.

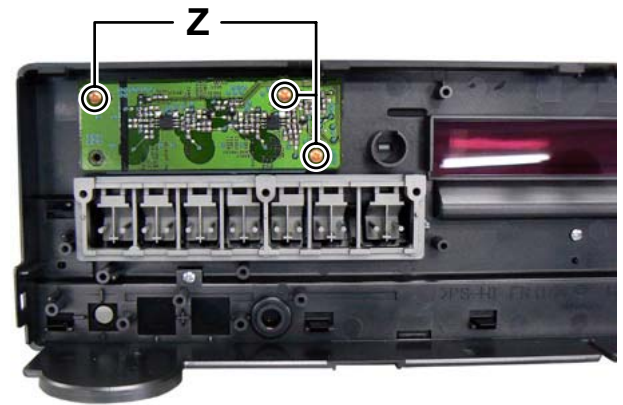


Fig.17

## 3.2 DVD mechanism

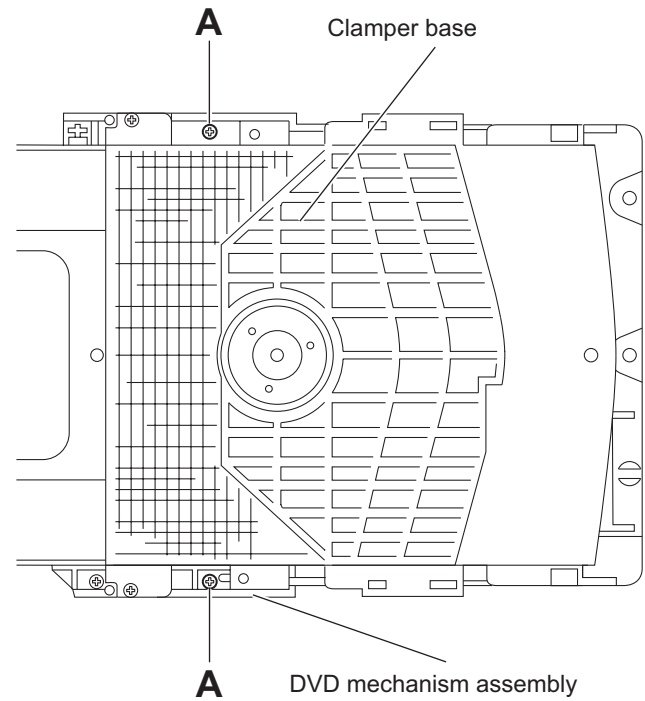
### 3.2.1 Removing the traverse mechanism

(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. (See Fig.5)
- (6) Disconnect the card wire from [CN101](#) and [CN201](#) on the DVD module board. (See Fig. 6)

#### Caution:

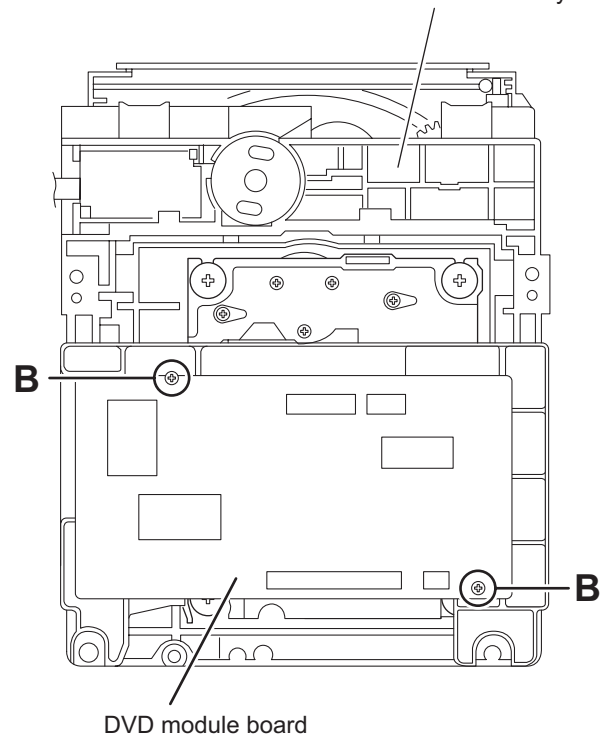
- Solder the short land section on the DVD pickup before disconnecting the card wire from the connector on the DVD pickup. If the card wire is disconnected without attaching solders, the pickup may be destroyed by static electricity.
- When attaching the DVD pickup, be sure to remove solders from the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



DVD mechanism assembly

Fig.1

DVD mechanism assembly



DVD module board

Fig.2

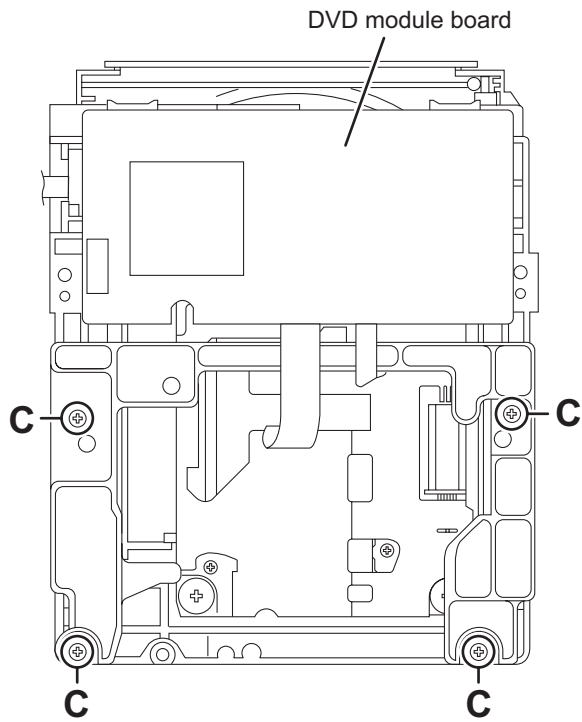


Fig.3

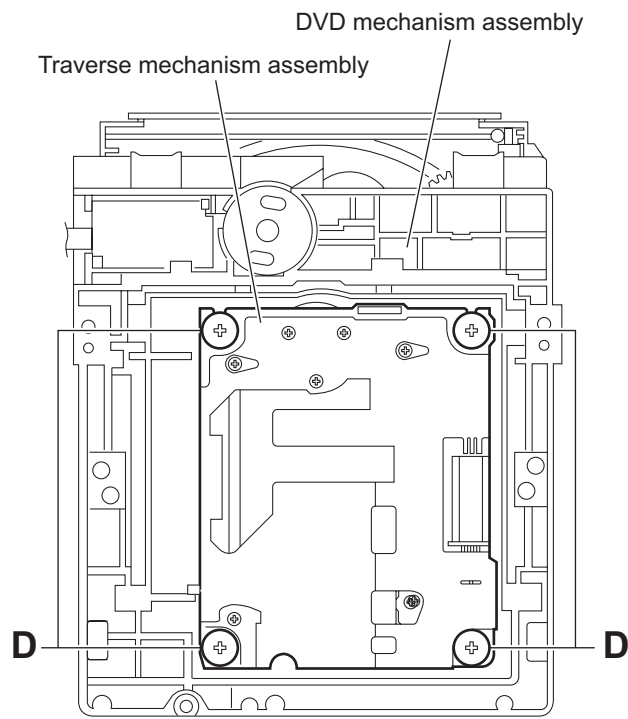
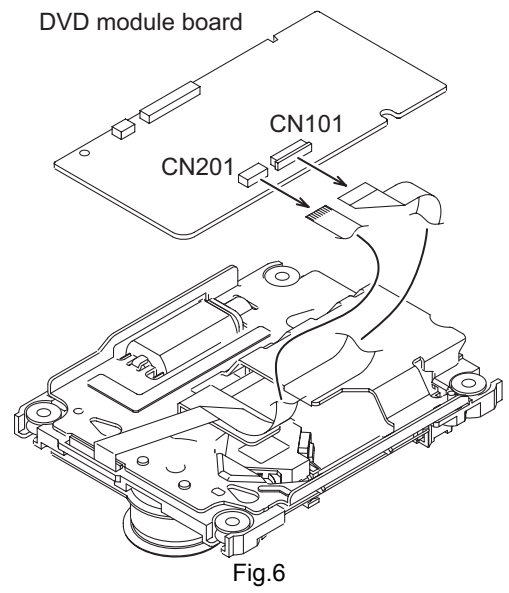


Fig.4

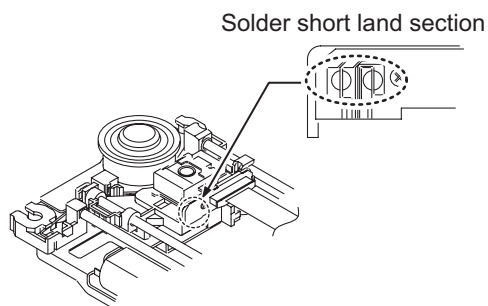


Fig.5

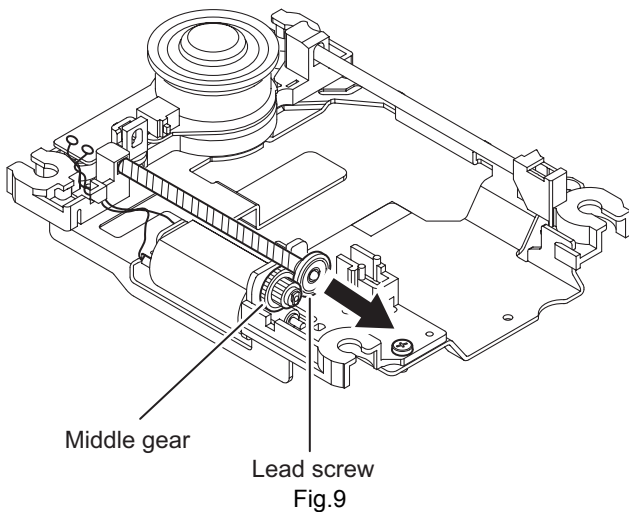
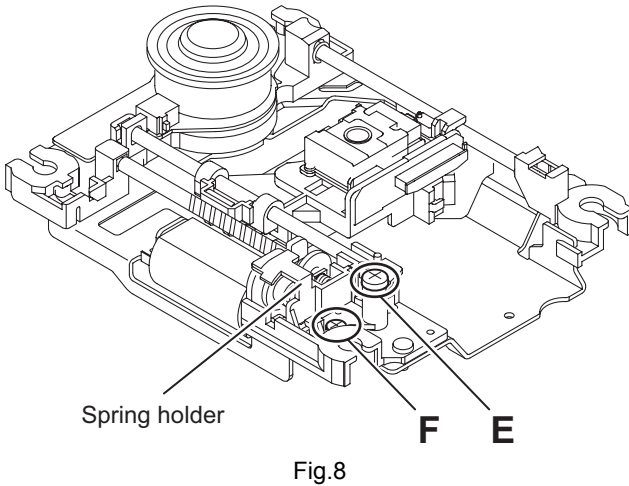
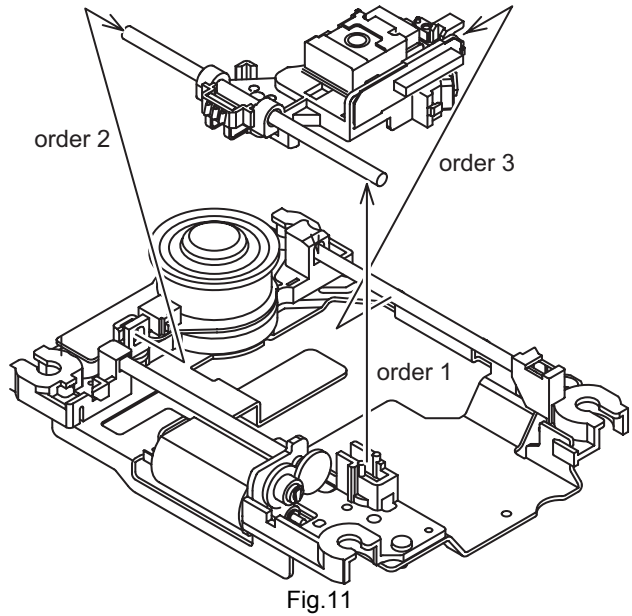
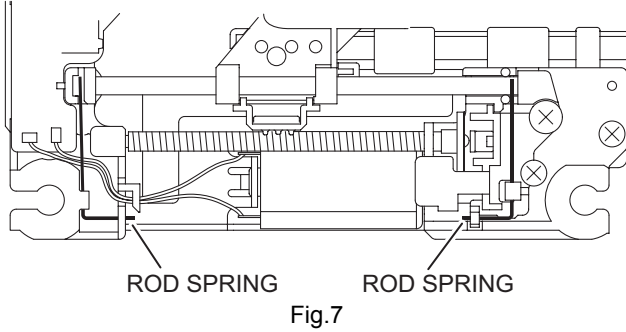
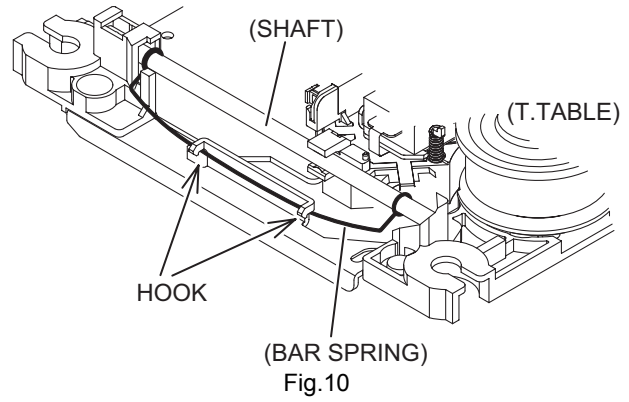
**3.2.2 Removing the pickup assembly  
(See Fig.7 to 11)**

- (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)

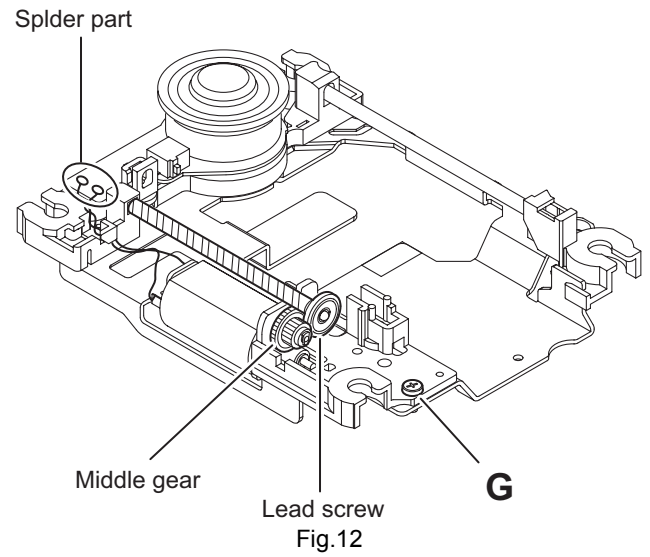
- (4) Remove the bar spring pressing the shaft. (See Fig.10)
- (5) Take out the pickup assembly from traverse mechanism chassis by order. (See Fig.11)





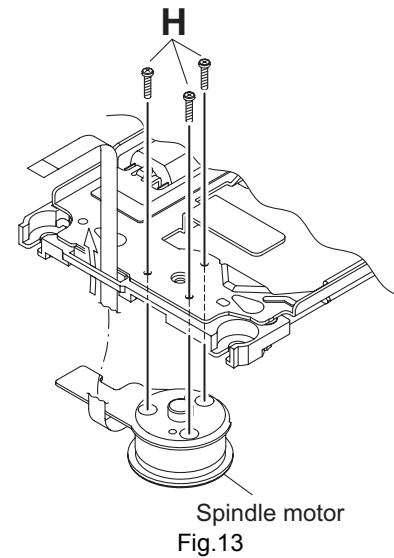
### 3.2.3 Removing the feed motor assembly (See Fig.12)

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



### 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.



### 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)

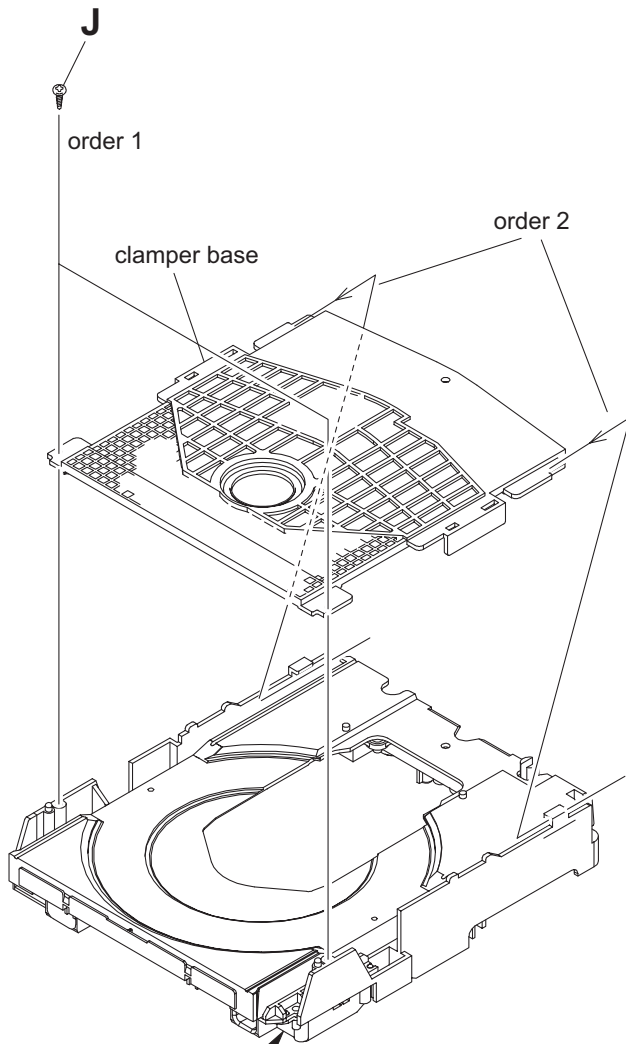


Fig.14

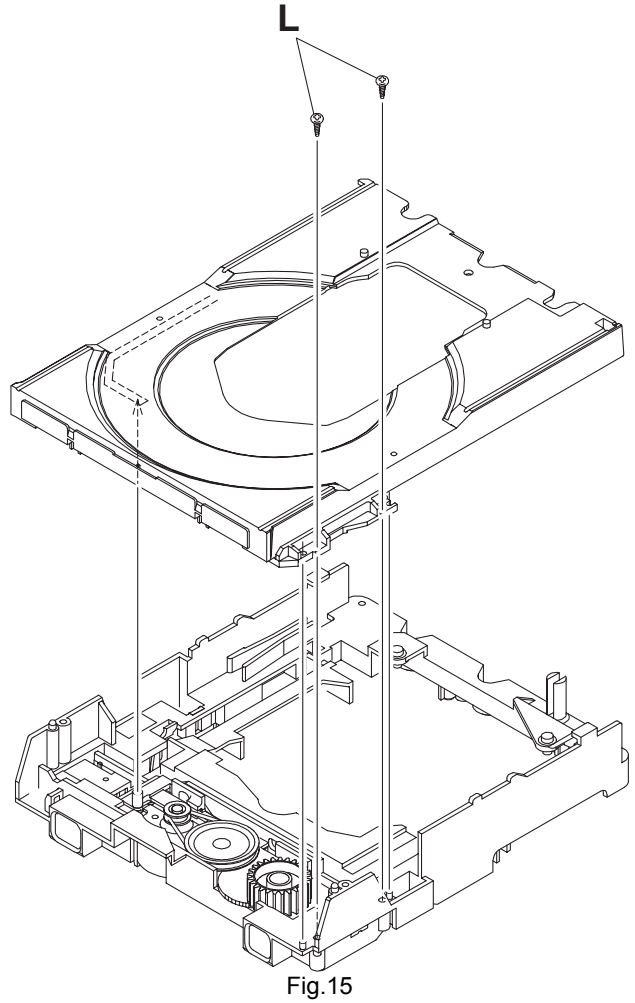


Fig.15

## 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 executed, execute 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.

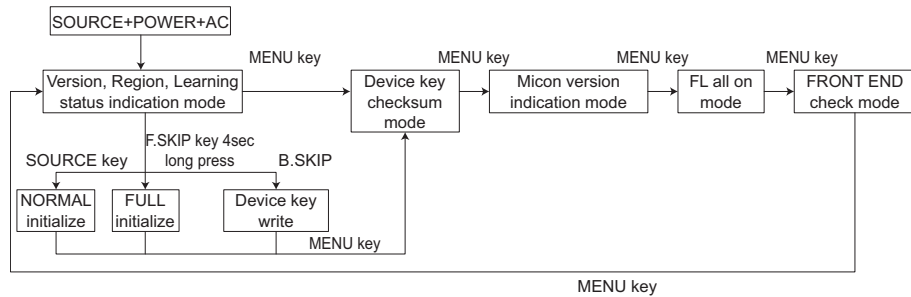
### 4.2 DVD TEST MODE

#### 4.2.1 Content of correspondence TEST MODE

- (1) Version, Region, Learning status check mode
- (2) NORMAL initialize, FULL initialize
- (3) Device key write(CPPM, CPRM)
- (4) Device key checksum indication mode
- (5) Micon version indication mode
- (6) FL all on mode
- (7) FRONT END check mode

#### 4.2.2 Mode transition

TEST MODE into the press [SOURC key] and [POWER key] together of main body, connect the AC power. After into the TEST MODE, mode select by [MENU key].



#### 4.2.3 Processing details

The communication of operated FL(LCD) display and DVD back end microcomputer is shown as follows.

\*It is assumed to be OK to differ from the content of the specification because the number of digits is different according to the set for the FL(LCD) display.

\*It is assumed to be OK to differ from the content of the specification because it also has the relation between arrangement and presence by the set also for the key.

STEP	Operation	Movement	FL(LCD)indication													Remarks			
			1	2	3	4	5	6	7	8	9	10	11	12	13				
1	AC is pulled out, and double press [SOURCE] and [POWER] key of the main body																		
2	Keep step 1, connect AC	<b>Version, Region, Learning status indication mode</b> Power on by test mode, version indication to FL	T		J	C	#		*	*									<b>Version indication</b> The display to the version code is as follows. 0x01:JC 0x02:1U 0x03:D 0x04:E 0x05:2U 0x06:3U 0x07:UB 0x08:UT 0x09:4U 0x0a:UY 0x0b:EE 0x0c:UF <b>Region indication (# part)</b> Learning from the back end is displayed in the 11th digit and the 12th digit of the FL display. Blank indication at 0xFF Study status (11th column) 0x07: BCA CHECK OK incomplete DVD learning incomplete CD learning incomplete (indication 7) 0x06: BCA CHECK OK incomplete DVD learning complete CD learning incomplete (indication 6) 0x05: BCA CHECK OK incomplete DVD learning incomplete CD learning complete (indication 5)



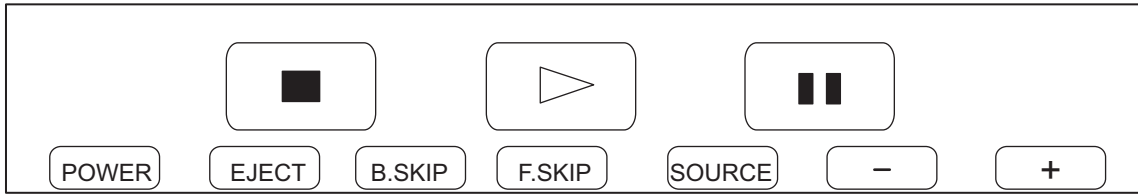


### 4.3 KEY special mode

MODE NAME	STATUS	OPERATION	FUNCTION
TUNER 9K/10kHz select (U ver)	P.OFF	Change to 9kHz step by press and hold [+] key, then press [  <<] key.	TUNER AM 9kHz/10kHz step select. Indicate "9k STEP", "10k STEP".
	P.OFF	Change to 10kHz step by press and hold [+] key, then press [  >>] key.	
TRAY LOCK	P.OFF	Press and hold [+] key, then press [EJECT] key	Do the TRAY LOCK mode select. Done the temporary P.ON process, select the "LOCKED" and "UNLOCKED" (Do not done the P.ON process). Ended the transitory display (2 seconds) return to P.OFF mode. When press the [EJECT] key at LOCK mode, at P.OFF status do temporary P.ON process then the transitory display (2 seconds) the "LOCKED", at P.ON status do the transitory display (2 seconds) the "LOCKED".
DVD TEST mode	AC off	Press and hold [SOURCE] and [POWER] key, and connect to AC.	DVD backend started by TEST mode. Internal TEST mode process is refer the spec.
XM Diagnostic mode	P.OFF at XM	Press and hold [-] key, and press [POWER] key	Into the XM Diagnostic mode.

### 4.4 REMOCON KEY special mode

MODE NAME	CODE	OPERATION	FUNCTION
COLD START	[STOP] + [POWER] + [0]	2 times input at P.OFF	When Fix by 2 times input, do the temporary P.ON process then indicate "COLD SET" by transitory (2 seconds). Ended the indication, change to P.OFF mode.
FL all ON Write the preset frequency	[STOP] + [POWER] + [1]	Input at P.ON	Write the preset frequency, LED all on check (each 300ms), FL all on LED on order : STANDBY -> ILLUMI -> Volume control by [VOL+] and [VOL-] key of the remote controller, it should high speed mode until next POWER OFF.
Version indication	[STOP] + [POWER] + [10]	Input at P.ON	Syscon version indication -> Unit version indication -> destination -> Chip select transitory indication (5 seconds). Syscon version: "SC ## \$\$" (## : Syscon version, \$ : Syscon romcollection) Unit version: "BE %%%%" (%%%% : Unit version) Destination, Chip select: "\$\$ %% KX" (\$\$ : Syscon destination, %% : "D4" or "D5" or "D6" or "D7" or "D8", K : KARAOKE, X : XM READY)
XM TEST MODE	[STOP] + [POWER] + [5]	Input at XM SOURCE	XM ready test mode TEST TONE (L/R 1 kHz) output



MODE	SET STATUS	KEY1	KEY2	OPERATION
DVD TEST MODE	AC OFF	SOURCE	POWER	AC IN
TRAY LOCK	STANDBY	Press and keep [+] key	EJECT	
TUNE 9K	STANDBY	Press and keep [+] key	B.SKIP	
TUNE 10K	STANDBY	Press and keep [+] key	F.SKIP	
NORMAL INITIALIZE	TEST MODE	SOURCE		Press
FULL INITIALIZE	TEST MODE	F.SKIP		Press 4 seconds.

## SECTION 5 TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.



# JVC

Victor company of Japan, Limited  
Audio/Video Systems category 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB618)



Printed in Japan  
VPT



# PARTS LIST

TH-D5B, TH-D5E, TH-D5EN  
TH-D5EV

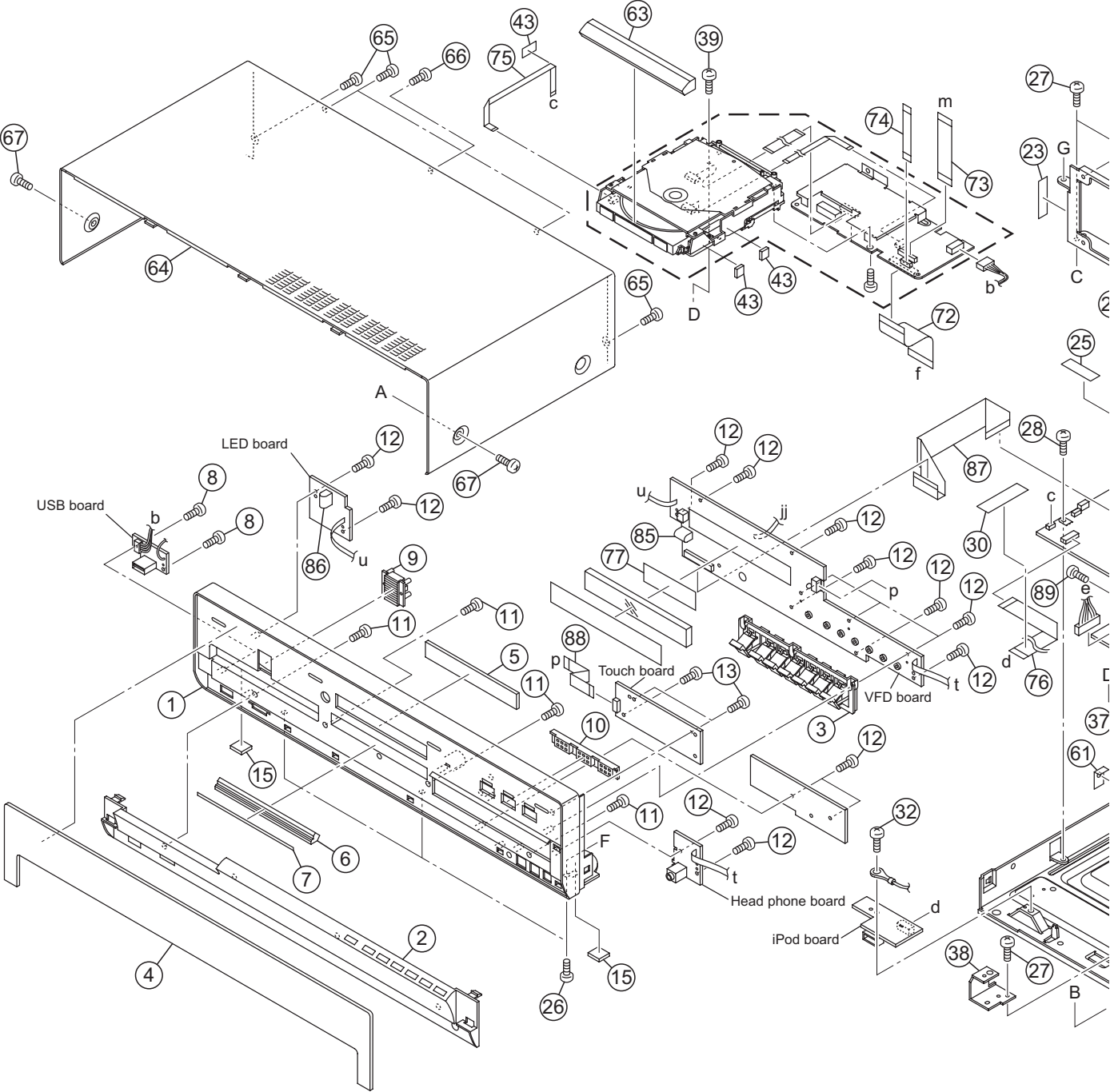
\* All printed circuit boards and its assemblies are not available as service parts.

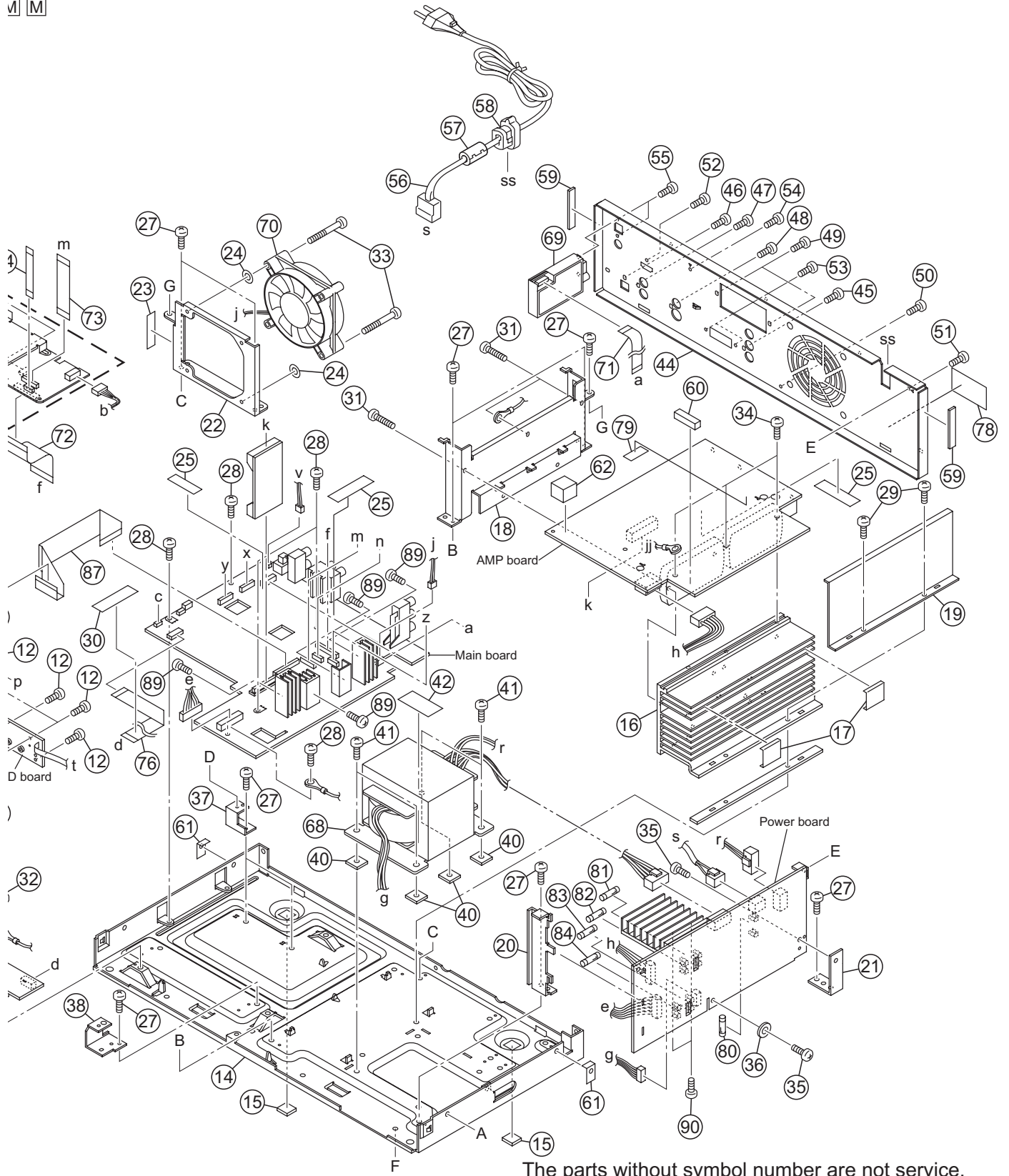
## - Contents -

Exploded view of general assembly and parts list (Block No.M1) .....	3- 2
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.01~05) .....	3-10
Packing materials and accessories parts list (Block No.M3) .....	3-20

# 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	GN10122-003A	FRONT PANEL	1A	
	2	GN10123-018A	ARNAMENT		
	3	GN20231-001A	PUSH BUTTON		
	4	GN20233-005A	WINDOW SCREEN		
	5	LV42851-012A	FL SCREEN		
	6	GN30223-003A	LENS		
	7	LV30227-0A7A	SPACER		
	8	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x2)	
	9	GN40140-001A	LENS(DVD)		
	10	GN40152-001A	SENSOR SPACER		
	11	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x4)	
	12	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x15)	
	13	QYSDSG2606EA	TAP SCREW	M2.6 x 6mm(x3)	
	14	GN10124-003A	BOTTOM CHASSI		
	15	LV40301-002A	FELT SPACER	(x4)	
	16	GN20234-201A	HEAT SINK		
	17	LV30227-0A1A	SPACER	(x2)	
	18	GN20235-002A	BRACKET(IC)		
	19	GN20236-001A	BRACKET(H.SINK)		
	20	GN30224-001A	BRACKET(POWER)		
	21	GN30228-002A	POWER BRACKET		
	22	GN30225-201A	BRACKET(FAN)		
	23	GV30349-025A	SPACER		
	24	LV30226-037A	SPACER	(x2)	
	25	GV30349-025A	SPACER	(x3)	
	26	QYSDSG3008ZA	TAP SCREW	M3 x 8mm(x3)	
	27	LV43451-002A	SPECIAL SCREW	(x10)	
	28	QYSDSG3006EA	TAP SCREW	M3 x 6mm(x5)	
	29	QYSBSG3010EA	TAP SCREW	M3 x 10mm(x2)	
	30	GV30349-025A	SPACER		
	31	QYSBSG3020ZA	TAP SCREW	M3 x 20mm(x3)	
	32	QYSDSG3008ZA	TAP SCREW	M3 x 8mm	
	33	QYSBSG3030ZA	TAP SCREW	M3 x 30mm(x2)	
	34	QYSBSG3010ZA	TAP SCREW	M3 x 10mm(x3)	
	35	QYSDSG3008ZA	TAP SCREW	M3 x 8mm(x2)	
	36	QYWBS326505ZA	WASHER	6.5mm/3.2mm x 0.5mm	
	37	GN40145-001A	BRACKET	(x2)	
	38	GN40146-001A	BRACKET		
	39	QYSBSG3016EA	TAP SCREW	M3 x 16mm	
	40	LV44937-001A	SPACER	(x4)	
	41	QYSDSTL4008EA	TAP SCREW	M4 x 8mm(x4)	
	42	LV30227-092A	SPACER		
	43	VYSH101-009	SPACER	(x3)	
	44	GN20237-027A	REAR PANEL		
	45	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	46	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	47	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	48	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	49	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
	50	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	51	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	52	QYSBST3006EA	TAP SCREW	M3 x 6mm	
	53	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
	54	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	55	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
△	56	QMPN160-200-JD	POWER CORD(EU)	2m BLACK	B
△	56	QMPK200-200-JD	POWER CORD(EU)	2m BLACK	E,EN,EV
	57	QQR0491-002	FERRITE CORE	FL2 TDK (BLACK)	
	58	QZW0033-001	STRAIN RELIEF		
	59	LV30227-093A	SPACER	(x2)	
	60	LV30227-0A2A	SPACER		
	61	LV30225-011A	SPACER	(x2)	
	62	LV30227-0A4A	SPACER		
	63	GN30220-001A	FITTING		
	64	GN10125-003A/S/	METAL COVER		
	65	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x4)	
	66	LV44339-001A	SPECIAL SCREW		
	67	E406308-006	SPECIAL SCREW	(x2)	
△	68	QQT0539-002	POWER TRANSF		
	69	QAU0473-001	TUNER		
	70	QAR0377-001	COOLING FAN		
	71	QUQU12-1510AJ-E	FFC WIRE	FFC 5 15pin 10cm	
	72	QUR110-2606AE-E	FFC WIRE	FFC 2	
	73	QUR110-1809AE-E	FFC WIRE	FFC 1	

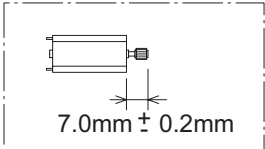
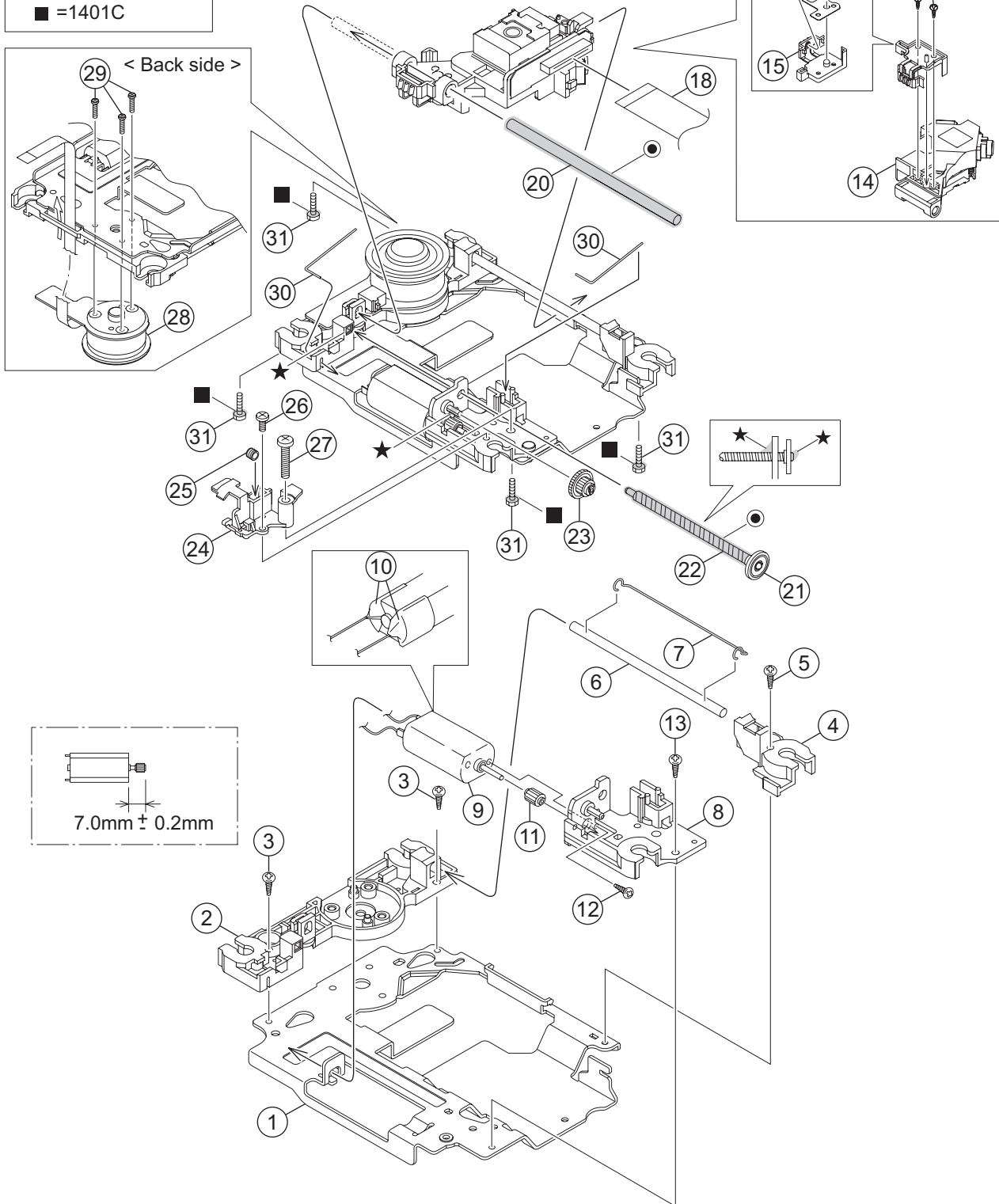
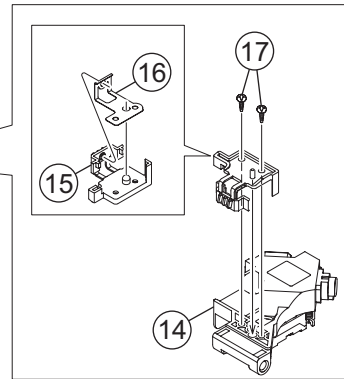
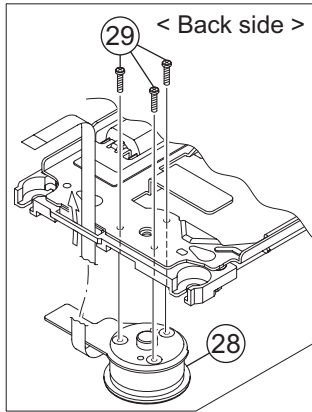
△	Symbol No.	Part No.	Part Name	Description	Local
	74	QUR110-0907AE-E	FFC WIRE	FFC 3	
	75	QUR110-0512AE-E	FFC WIRE	FFC 6	
	76	QUR310-1310AE-E	FFC WIRE	FFC 7	
	77	LV30227-0A5A	SPACER		
	78	LV37706-019A	RATING LABEL		
	79	LV30225-0M8A	SPECER		
△	80	QMF51W2-2R5-J8	FUSE	F 1001 2.5A AC250V	
△	81	QMF51W2-6R3-J8	FUSE	F 1201 6.3A AC250V	
△	82	QMF51W2-6R3-J8	FUSE	F 1202 6.3A AC250V	
△	83	QMF51W2-2R0-J8	FUSE	F 1301 2A AC250V	
△	84	QMF51W2-2R0-J8	FUSE	F 1302 2A AC250V	
	85	GN40141-001A	LED HOLDER		
	86	GN40141-001A	LED HOLDER		
	87	QUR110-2918AE-E	FFC WIRE	FFC 9	
	88	QUR110-0906AE-E	FFC WIRE	FC 10	
	89	QYSBST3008ZA	TAP SCREW	M3 x 8mm(x4)	
	90	QYSDSG3008ZA	TAP SCREW	M3 x 8mm(x2)	

# DVD mechanism assembly and parts list

Block No. M J M M

**Grease**  
 ★ =JVG-31N  
 ● =JVS-1003  
 ■ =1401C

FXL-D10-11M



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	LV22234-001A	TM.CHASSIS		
	2	LV22235-001A	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	QAL0786-004	P.UP		
	15	LV22237-001A	RACK ARM		
	16	LV36560-001A	RACK ARM SPRING		
	17	QYSPSFU1740ZA	TAP SCREW	M1.7 x 4mm(x2)	
	18	QUQK05-2420AC-E	FFC WIRE	24pin 20cm	
	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	QAR0387-001	S.MOTOR		
	29	QYSPSPU1775ZA	SCREW	M1.7 x 7.5mm(x3)	
	30	LV44042-001A	ROD SPRING	(x2)	
	31	LV44046-001A	ADJUST SCREW	(x4)	

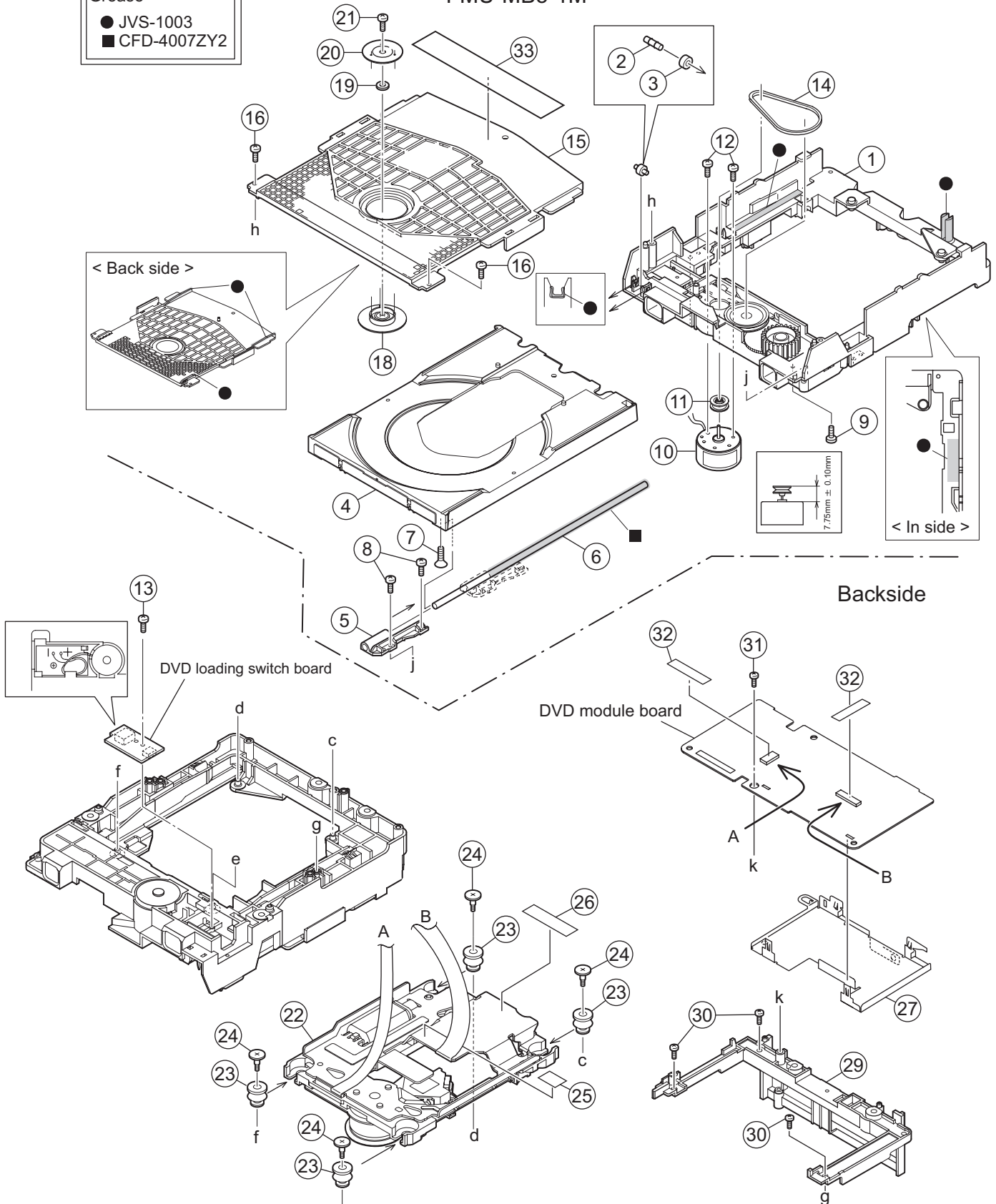
# DVD loading base assembly and parts list

Grease

- JVS-1003
- CFD-4007ZY2

FMU-MB5-1M

Block No. M N M M



The parts without symbol number are not service.



# DVD loading base

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

△	Symbol No.	Part No.	Part Name	Description	Local
	1	LV11065-010A	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	LV41741-004A	SPECIAL SCREW		
	10	QAR0197-001	MOTOR	2.0V DC	
	10	or QAR0450-001	MOTOR		
	11	LV43844-002A	MOTOR PULLEY		
	12	QYSPSPU1730ZA	SCREW	M1.7 x 3mm(x2)	
	13	QYSDSF2008ZA	TAP SCREW	M2 x 8mm	
	14	LV43974-001A	BELT		
	15	LV21852-003A	CLAMPER BASE		
	16	QYSDSF2008ZA	TAP SCREW	M2 x 8mm(x2)	
	18	LV35056-002A	DVD CLAMPER		
	19	LV42930-003A	P.C.MAGNET		
	19	or LV41118-003A	MAGNET		
	20	LV43848-001A	YOKE		
	21	LE40906-002A	SPECIAL SCREW		
	22	FXL-D10-11M	SINGLE DVD TRAM		
	23	LV44043-001A	INSULATOR	(x4)	
	24	LV44044-001A	SPECIAL SCREW	(x4)	
	25	LV44007-001A	TAPE		
	26	LV44007-003A	TAPE		
	27	GN30226-001A	HDMI BRACKET A		
	29	GN20232-002A	FITTING		
	30	QYSBSF2608ZA	TAP SCREW	M2.6 x 8mm(x3)	
	31	QYSBSFG2606ZA	TAP SCREW	M2.6 x 6mm	
	32	GV30349-025A	SPACER	(x2)	
	33	LV44603-003A	LASER CAUTION		

# Electrical parts list

## Main board

Block No. [0][1]				
△ Symbol No.	Part No.	Part Name	Description	Local
			Regulator	
△ IC161	PQ1CG21H2FZ	IC		
△ IC162	KIA7806API	IC		
△ IC181	KIA7810API	IC		
IC211	MN101C49GAL1	MASK ROM		
IC212	TC74VHCT08AFT-X	IC(DIGITAL)		
IC241	BR24L08F-W-X	IC(DIGITAL)		
△ IC261	LB1641	IC		
IC291	MM1565AF-X	IC		
IC301	NJM4565M-WE	IC		
IC321	R2S15902FP	IC		
IC331	NJM4565M-WE	IC		
IC351	NJM4565M-WE	IC		
IC411	MM1233XF-X	IC C/M		
IC412	MM1233XF-X	IC C/M		
IC421	MM1623XF-X	IC		
IC461	TC4066BFT-X	IC		
IC641	NJM4565M-WE	IC		
IC642	NJM4565M-WE	IC		
Q1611	RT1P141C-X	DIGI TRANSISTOR		
△ Q1701	KT8772Y/	TRANSISTOR		
Q1702	2SC3928A/QR/-X	TRANSISTOR		
Q1901	RT1N241C-X	DIGI TRANSISTOR		
Q1902	RT1P141C-X	DIGI TRANSISTOR		
Q1903	KTC3203/OY/-T	TRANSISTOR		
Q1904	RT1N141C-X	DIGI TRANSISTOR		
Q1905	RT1N141C-X	DIGI TRANSISTOR		
Q2001	RT1N141C-X	DIGI TRANSISTOR		
Q2002	RT1N141C-X	DIGI TRANSISTOR		
Q2101	RT1N140C-X	DIGI TRANSISTOR		
Q2201	RT1N140C-X	DIGI TRANSISTOR		
Q2301	RT1N430C-X	TRANSISTOR		
Q2701	KTA1271/OY/-T	TRANSISTOR		
Q2702	2SC3928A/QR/-X	TRANSISTOR		
Q3001	KTC812T-X	PAIR TRANSISTOR		
Q3002	RT1P431C-X	DIGI TRANSISTOR		
Q3401	RT1P141C-X	DIGI TRANSISTOR		
Q3501	KTC812T-X	PAIR TRANSISTOR		
Q3502	KTC812T-X	PAIR TRANSISTOR		
Q3503	KTC812T-X	PAIR TRANSISTOR		
Q3531	2SC3928A/QR/-X	TRANSISTOR		
Q3532	RT1N141C-X	DIGI TRANSISTOR		
Q3541	2SC3928A/QR/-X	TRANSISTOR		
Q4521	RT1P141C-X	DIGI TRANSISTOR		
Q4522	RT1N141C-X	DIGI TRANSISTOR		
Q4523	RT1P141C-X	DIGI TRANSISTOR		
Q4524	RT1P141C-X	DIGI TRANSISTOR		
Q4525	RT1N141C-X	DIGI TRANSISTOR		
Q4601	RT1N441C-X	TRANSISTOR		
Q6401	RT1N431C-X	TRANSISTOR		
Q6402	RT3CLLM/EF/-X	TRANSISTOR		
Q6501	RT1N140C-X	DIGI TRANSISTOR		
Q6601	RT1N140C-X	DIGI TRANSISTOR		
Q6701	RT1N140C-X	DIGI TRANSISTOR		
Q6801	RT1N144C-X	DIGI TRANSISTOR		
Q6802	RT1N144C-X	DIGI TRANSISTOR		
Q6803	RT1N144C-X	DIGI TRANSISTOR		
D1611	EC30HA04-X	SB DIODE		
△ D1612	MTZJ6.2B-T2	Z DIODE		
D1613	2A02-M	DIODE		
D1614	2A02-M	DIODE		
D1615	1N4003S-T5	SI DIODE		
D1621	1N4003S-T5	SI DIODE		
D1622	1N4003S-T5	SI DIODE		
D1624	1N4003S-T5	SI DIODE		
D1701	UDZW7.5B-X	Z DIODE		
△ D1801	MTZJ12C-T2	Z DIODE		
D1901	UDZW12B-X	Z DIODE		
D1902	UDZW6.8B-X	Z DIODE		
D2001	1N4003S-T5	SI DIODE		
D2002	UDZW7.5B-X	Z DIODE		

△ Symbol No.	Part No.	Part Name	Description	Local
D2003	MA152WA-X	DIODE		
D2004	1SS355W-X	DIODE		
D2005	MA152WA-X	DIODE		
D2006	UDZW3.9B-X	Z DIODE		
D2007	1SS355W-X	DIODE		
D2101	1SS355W-X	DIODE		
D2102	1SS355W-X	DIODE		
D2103	1SS355W-X	DIODE		
D2104	1SS355W-X	DIODE		
D2201	UDZW3.9B-X	Z DIODE		
D2301	1SS355W-X	DIODE		
D2601	UDZW4.7B-X	Z DIODE		
D2701	1SS355W-X	DIODE		
D2702	UDZW6.8B-X	Z DIODE		
D2703	UDZW5.1B-X	SB DIODE		
D3531	1SS355W-X	DIODE		
D3541	1SS355W-X	DIODE		
D6801	HL-PC3216B-X	LED		
D6802	HL-PC3216B-X	LED		
D6803	HL-PC3216B-X	LED		
△ C1501	QETM1EM-828	E CAPACITOR	8200uF 25V M	
C1612	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1613	QEZ0654-477Z	E CAPACITOR	470uF 10V M	
C1614	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1621	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1622	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C1623	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1624	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C1701	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C1702	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C1801	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1802	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C1803	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C1804	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C1901	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C1902	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C2101	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C2102	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C2103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2104	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2105	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2201	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	
C2301	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2302	QETN1CM-226Z	E CAPACITOR	22uF 16V M	
C2303	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2401	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2402	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C2601	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2602	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2603	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C2701	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C2702	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2703	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C2801	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C2802	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C2803	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C2804	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C2805	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C2901	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C2902	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C2903	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C2904	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C3001	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C3002	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C3003	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C3004	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C3005	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C3006	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3007	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C3008	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C3201	NCB31CK-393X	C CAPACITOR	0.039uF 16V K	
C3202	NCB31CK-393X	C CAPACITOR	0.039uF 16V K	
C3203	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z	
C3204	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z	
C3205	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C3206	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C4206	QETN1CM-226Z	E CAPACITOR	22uF 16V M	
C3207	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C4207	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3208	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C4208	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3209	QETN1EM-476Z	E CAPACITOR	47uF 25V M		C4209	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3210	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C4210	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C3211	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C4211	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C3212	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C4212	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	
C3213	QETN1HM-106Z	E CAPACITOR	10uF 50V M		C4213	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3214	QETN1HM-106Z	E CAPACITOR	10uF 50V M		C4301	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C3215	NCB31EK-153X	C CAPACITOR	0.015uF 25V K		C4302	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C3216	QETN1CM-107Z	E CAPACITOR	100uF 16V M		C4303	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C3219	QTE1H46-475Z	E CAPACITOR	4.7uF 50V		C4308	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C3220	QTE1H46-475Z	E CAPACITOR	4.7uF 50V		C4310	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3221	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z		C4311	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3222	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z		C4312	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C3223	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z		C4313	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C3224	QTE1H46-475Z	E CAPACITOR	4.7uF 50V		C4314	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C3225	NCF31HZ-473X	C CAPACITOR	0.047uF 50V Z		C4315	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C3226	NCF31HZ-473X	C CAPACITOR	0.047uF 50V Z		C4401	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C3227	QFV61HJ-473Z	MF CAPACITOR	0.047uF 50V J		C4402	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C3227	or QFV91HJ-473Z	MF CAPACITOR	0.047uF 50V J		C4411	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C3228	QFV61HJ-154Z	MF CAPACITOR	0.15uF 50V J		C4412	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C3228	or QFV91HJ-154Z	MF CAPACITOR	0.15uF 50V J		C4501	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C3229	QFV61HJ-473Z	MF CAPACITOR	0.047uF 50V J		C4502	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C3229	or QFV91HJ-473Z	MF CAPACITOR	0.047uF 50V J		C4511	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C3230	QFV61HJ-154Z	MF CAPACITOR	0.15uF 50V J		C4512	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C3230	or QFV91HJ-154Z	MF CAPACITOR	0.15uF 50V J		C4531	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C3231	QFV61HJ-223Z	MF CAPACITOR	0.022uF 50V J		C4532	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C3231	or QFV91HJ-223Z	MF CAPACITOR	0.022uF 50V J		C4533	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C3232	QFV61HJ-223Z	MF CAPACITOR	0.022uF 50V J		C4534	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C3232	or QFV91HJ-223Z	MF CAPACITOR	0.022uF 50V J		C4602	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C3233	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C6401	NBE21CM-106X	TA E CAPACITOR	10uF 16V M	
C3234	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C6402	NDC31HJ-681X	C CAPACITOR	680pF 50V J	
C3301	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M		C6403	NBE21CM-106X	TA E CAPACITOR	10uF 16V M	
C3302	NCB31CK-473X	C CAPACITOR	0.047uF 16V K		C6404	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C3303	QETN1HM-226Z	E CAPACITOR	22uF 50V M		C6405	NBE21CM-106X	TA E CAPACITOR	10uF 16V M	
C3304	NCB31CK-473X	C CAPACITOR	0.047uF 16V K		C6501	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C3305	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C6502	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J	
C3306	QTE1E46-476Z	E CAPACITOR	47uF 25V		C6503	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C3307	NCB31CK-105X	C CAPACITOR	1uF 16V K		C6601	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C3401	QETN1EM-476Z	E CAPACITOR	47uF 25V M		C6602	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J	
C3501	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C6603	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C3502	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C6701	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C3503	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C6702	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J	
C3504	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C6703	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C3505	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		C7506	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C3506	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M						
C3531	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		R1501	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
C3532	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		R1611	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C3535	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		R1612	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
C3536	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R1613	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C3541	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		R1614	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C3544	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		△ R1701	QRL01DJ-100X	OMF RESISTOR	10Ω 1W J	
C3545	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R1702	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C3551	QETN1EM-476Z	E CAPACITOR	47uF 25V M		R1703	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
C3552	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R1704	NRS181J-561X	MG RESISTOR	560Ω 1/8W J	
C3603	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z		R1705	NRS181J-561X	MG RESISTOR	560Ω 1/8W J	
C4001	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		△ R1706	QRL01DJ-100X	OMF RESISTOR	10Ω 1W J	
C4002	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		△ R1801	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
C4101	QETN1EM-476Z	E CAPACITOR	47uF 25V M		R1901	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C4102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R1902	NRS181J-821X	MG RESISTOR	820Ω 1/8W J	
C4103	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R1903	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
C4105	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		R1904	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C4106	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		R1905	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C4107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R2001	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C4108	NDC31HJ-390X	C CAPACITOR	39pF 50V J		R2002	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C4109	NDC31HJ-390X	C CAPACITOR	39pF 50V J		R2003	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C4110	NDC31HJ-390X	C CAPACITOR	39pF 50V J		R2004	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
C4111	NDC31HJ-390X	C CAPACITOR	39pF 50V J		R2010	QRT027J-3R3	MF RESISTOR	3.3Ω 2W J	
C4112	NDC31HJ-390X	C CAPACITOR	39pF 50V J		R2102	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C4113	NDC31HJ-390X	C CAPACITOR	39pF 50V J		R2103	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C4114	NDC31HJ-390X	C CAPACITOR	39pF 50V J		R2106	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
C4115	NDC31HJ-390X	C CAPACITOR	39pF 50V J		R2108	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C4201	QETN1AM-477Z	E CAPACITOR	470uF 10V M		R2109	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C4202	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R2110	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C4203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R2111	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C4204	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		R2112	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C4205	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		R2113	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	



△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R3544	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J		R6704	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R3545	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R6705	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R3546	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R6801	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3547	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		R6802	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3551	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R6803	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3552	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		RA212	NRZ0034-222W	NET RESISTOR	2.2kΩ 1/32W J x4	
R3607	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		RA213	NRZ0034-222W	NET RESISTOR	2.2kΩ 1/32W J x4	
R3807	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		RA214	NRZ0034-222W	NET RESISTOR	2.2kΩ 1/32W J x4	
R3808	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		RA215	NRZ0034-222W	NET RESISTOR	2.2kΩ 1/32W J x4	
R3809	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		RA217	NRZ0034-222W	NET RESISTOR	2.2kΩ 1/32W J x4	
R3810	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		RA218	NRZ0034-222W	NET RESISTOR	2.2kΩ 1/32W J x4	
R3811	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L1611	QQL82AK-101	COIL	100uH K	
R3812	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		L4201	QQL25CK-221Z	COIL	220uH K	
R4011	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J		CN151	QGA2536C1-09	CONNECTOR	W-B (1-9)	
R4021	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		CN152	QGA2536C1-02	CONNECTOR	W-B (1-2)	
R4022	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		CN201	QGF1016C6-18W	CONNECTOR	FFC/FPC (1-18)	
R4031	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J		CN202	QGF1016C6-26W	CONNECTOR	FFC/FPC (1-26)	
R4041	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J		CN204	QGF1016C6-09W	CONNECTOR	FFC/FPC (1-9)	
R4051	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J		CN205	QGF1205C2-15	CONNECTOR	FFC/FPC (1-15)	
R4301	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		CN207	QGF1205C2-05	CONNECTOR	FFC/FPC (1-5)	
R4302	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		CN210	QGF1036F2-13	CONNECTOR	FFC/FPC (1-13)	
R4303	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		CN211	QGF1036C2-29	CONNECTOR	FFC/FPC (1-29)	
R4307	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		CN212	QGF1036C2-05	CONNECTOR	FFC/FPC (1-5)	
R4308	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		CN301	QGB2510J1-13	CONNECTOR	B-B (1-13)	
R4309	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J		CN304	QJL010-071002-E	SIN CR B-B WIRE		
R4401	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		CN641	QGF1016F8-09W	CONNECTOR	FFC/FPC (1-9)	
R4402	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J		CN751	WJP0093-005A-E	E-SH C WIRE C-B		
R4411	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		△ CP161	ICP-N38-T	IC PROTECTOR	1.5A	
R4412	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J		EP151	QNZ0136-001Z	EARTH PLATE		
R4501	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		EP161	QNZ0136-001Z	EARTH PLATE		
R4502	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J		HS161	GV40614-001A	HEAT SINK		
R4511	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		HS162	E70945-H40B	HEAT SINK	HS 921	
R4512	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J		HS171	E70306-013	HEAT SINK		
R4521	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		HS181	E70945-H40B	HEAT SINK	HS 921	
R4522	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		J3001	GP1FAV30RK0F	OPT RECEIVER		
R4523	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		J4001	QNN0761-001	PIN JACK		
R4524	NRSA63J-430X	MG RESISTOR	43Ω 1/16W J		J4002	QNN0557-002	PIN JACK		
R4525	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		J4003	QNN0575-001	PIN JACK		
R4531	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		J4004	QNZ0775-001	RGB CONNECTOR		
R4532	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		J7501	QZ020906-001	USB CONNECTOR		
R4533	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		K1611	QQR0621-001Z	COIL		
R4534	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J		K2201	QQR0621-001Z	COIL		
R4601	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K7501	NQR0502-001X	FERRITE BEADS		
R4604	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		K7502	NQR0022-002X	FERRITE BEADS		
R4605	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		K7503	NQR0022-002X	FERRITE BEADS		
R4606	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		K7504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4607	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		PP151	QZ010112-001	WIRE CLAMP		
R4608	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		PP152	QZ010112-002	WIRE CLAMP		
R4609	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		X2101	QAX0902-001	CRYSTAL		
R4610	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R4611	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R6401	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R6402	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R6403	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J						
R6404	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J						
R6405	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J						
R6406	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J						
R6407	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J						
R6408	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J						
R6409	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R6410	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R6411	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J						
R6412	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R6413	NRSA63J-114X	MG RESISTOR	110kΩ 1/16W J						
R6414	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J						
R6501	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J						
R6502	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R6503	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J						
R6504	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J						
R6505	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J						
R6601	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J						
R6602	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R6603	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J						
R6604	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J						
R6605	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J						
R6701	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J						
R6702	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R6703	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J						

## AMP board

△ Symbol No.	Part No.	Part Name	Description	Local
△ IC501	STK416-130-E	IC(HYBRID)		
△ IC502	STK416-130-E	IC(HYBRID)		
Q5101	2SA1530A/QR/-X	TRANSISTOR		
Q5201	2SA1530A/QR/-X	TRANSISTOR		
Q5301	2SA1530A/QR/-X	TRANSISTOR		
Q5401	2SA1530A/QR/-X	TRANSISTOR		
Q5501	2SA1530A/QR/-X	TRANSISTOR		
Q5601	2SA1530A/QR/-X	TRANSISTOR		
Q5801	2SC3928A/QR/-X	TRANSISTOR		
Q5802	2SA1530A/QR/-X	TRANSISTOR		
Q5803	2SC3928A/QR/-X	TRANSISTOR		
Q5804	RT1N141C-X	DIGI TRANSISTOR		
Q5901	2SC3928A/QR/-X	TRANSISTOR		
Q5902	KTC3265/Y/-X	TRANSISTOR		
D5001	MTZJ15C-T2	Z DIODE		

Block No. [0][2]

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
D5002	MTZJ15C-T2	Z DIODE			C5914	NCB31HK-471X	C CAPACITOR	470pF 50V K	
D5003	SB360-C332-3	SB DIODE		B	C5921	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
D5003	SB360-F82	SB DIODE		E,EN, EV	C5922	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
D5004	SB360-F82	SB DIODE			C5923	NCB31HK-471X	C CAPACITOR	470pF 50V K	
D5005	SB360-F82	SB DIODE			C5924	NCB31HK-471X	C CAPACITOR	470pF 50V K	
D5006	SB360-F82	SB DIODE			C5931	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
D5007	MTZJ15C-T2	Z DIODE			C5932	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
D5008	MTZJ15C-T2	Z DIODE			C5933	NCB31HK-471X	C CAPACITOR	470pF 50V K	
D5101	1SS133-T2	SI DIODE			C5934	NCB31HK-471X	C CAPACITOR	470pF 50V K	
D5201	1SS133-T2	SI DIODE			C5941	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
D5301	1SS133-T2	SI DIODE			C5942	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
D5401	1SS133-T2	SI DIODE			C5943	NCB31HK-471X	C CAPACITOR	470pF 50V K	
D5501	1SS133-T2	SI DIODE			C5944	NCB31HK-471X	C CAPACITOR	470pF 50V K	
D5601	1SS133-T2	SI DIODE			C5951	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
D5701	1SS133-T2	SI DIODE			C5952	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
D5702	1SS133-T2	SI DIODE			C5953	NCB31HK-471X	C CAPACITOR	470pF 50V K	
D5801	1SS133-T2	SI DIODE			C5954	NCB31HK-471X	C CAPACITOR	470pF 50V K	
D5802	MTZJ30C-T2	Z DIODE			C5961	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
D5803	1SS133-T2	SI DIODE			C5962	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
D5804	1SS133-T2	SI DIODE			C5963	NCB31HK-471X	C CAPACITOR	470pF 50V K	
D5805	1SS133-T2	SI DIODE			C5964	NCB31HK-471X	C CAPACITOR	470pF 50V K	
△ C5001	QEZO799-478	E CAPACITER	4700uF		△ R5001	QRZ9005-101X	F RESISTOR	100Ω	
△ C5002	QEZO799-478	E CAPACITER	4700uF		△ R5002	QRZ9005-101X	F RESISTOR	100Ω	
△ C5003	QETM1EM-478	E CAPACITOR	4700uF 25V M		R5003	QRL01DJ-152X	OMF RESISTOR	1.5kΩ 1W J	
△ C5004	QETM1EM-478	E CAPACITOR	4700uF 25V M		R5004	QRL01DJ-152X	OMF RESISTOR	1.5kΩ 1W J	
C5005	QETN1JM-107Z	E CAPACITOR	100uF 63V M		R5005	QRL01DJ-152X	OMF RESISTOR	1.5kΩ 1W J	
C5006	QETN1JM-107Z	E CAPACITOR	100uF 63V M		R5006	QRL01DJ-152X	OMF RESISTOR	1.5kΩ 1W J	
C5101	NDC31HJ-681X	C CAPACITOR	680pF 50V J		△ R5007	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J	
C5102	NDC31HJ-220X	C CAPACITOR	22pF 50V J		△ R5008	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J	
C5103	QETN1CM-107Z	E CAPACITOR	100uF 16V M		△ R5009	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J	
C5104	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		△ R5010	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J	
C5105	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		△ R5011	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J	
C5106	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		△ R5012	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J	
C5107	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M		△ R5013	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J	
C5201	NDC31HJ-101X	C CAPACITOR	100pF 50V J		△ R5014	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J	
C5202	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J		R5021	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
C5203	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R5022	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
C5204	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R5023	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
C5205	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R5024	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J	
C5206	NDC31HJ-471X	C CAPACITOR	470pF 50V J		R5101	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
C5207	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M		R5102	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C5301	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R5103	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
C5302	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J		R5104	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C5303	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R5105	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
C5304	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R5106	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C5305	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R5107	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
C5306	NDC31HJ-471X	C CAPACITOR	470pF 50V J		R5108	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
C5307	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M		R5109	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C5401	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R5110	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C5402	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J		R5201	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
C5403	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R5202	NRSA63J-112X	MG RESISTOR	1.1kΩ 1/16W J	
C5404	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R5203	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
C5405	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R5204	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C5406	NDC31HJ-471X	C CAPACITOR	470pF 50V J		R5205	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
C5407	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M		R5206	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C5501	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R5207	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
C5502	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J		R5208	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
C5503	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R5209	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C5504	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R5210	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
C5505	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R5301	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
C5506	NDC31HJ-471X	C CAPACITOR	470pF 50V J		R5302	NRSA63J-112X	MG RESISTOR	1.1kΩ 1/16W J	
C5507	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M		R5303	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
C5601	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R5304	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C5602	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J		R5305	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
C5603	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R5306	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C5604	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R5307	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
C5605	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z		R5308	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
C5606	NDC31HJ-471X	C CAPACITOR	470pF 50V J		R5309	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C5607	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M		R5310	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
C5801	QETN1HM-106Z	E CAPACITOR	10uF 50V M		R5401	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
C5802	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R5402	NRSA63J-112X	MG RESISTOR	1.1kΩ 1/16W J	
C5803	NCF31HZ-223X	E CAPACITOR	0.022uF 50V Z		R5403	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
C5901	QETN1HM-106Z	E CAPACITOR	10uF 50V M		R5404	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C5911	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R5405	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
C5912	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R5406	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C5913	NCB31HK-471X	C CAPACITOR	470pF 50V K		R5407	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
					R5408	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R5409	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		J5001	QNB0319-001	SPK TERMINAL		
R5410	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J		RY591	QSK0127-001	RELAY		
R5501	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J		RY592	QSK0127-001	RELAY		
R5502	NRSA63J-112X	MG RESISTOR	1.1kΩ 1/16W J		RY593	QSK0127-001	RELAY		
R5503	QRZ0224-R22	EMIT RESISTOR	0.22Ω		TH581	QAD0015-103Z	N THERMISTOR	10kΩ	
R5504	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		<b>Power board</b>				
R5505	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J						
R5506	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		<b>Block No. [0][3]</b>				
R5507	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J						
R5508	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		△ Symbol No.	Part No.	Part Name	Description	Local
R5509	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		IC111	KIA7806API	IC		
R5510	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J		IC601	PT6315	IC		
R5601	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J		IC611	NJL23H380A-E	IR DETECT UNIT		
R5602	NRSA63J-112X	MG RESISTOR	1.1kΩ 1/16W J		IC761	NJM4565M-WE	IC		
R5603	QRZ0224-R22	EMIT RESISTOR	0.22Ω		IC762	NJM2717M-X	IC		
R5604	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		Q1001	RT1N141C-X	DIGI TRANSISTOR		
R5605	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J		Q1401	KTC3203/OY/-T	TRANSISTOR		
R5606	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		△ Q1402	KTA1046/Y/	TRANSISTOR		
R5607	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J		Q2501	RT3WLMM/EF/-X	TRANSISTOR		
R5608	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		Q2511	RT3WLMM/EF/-X	TRANSISTOR		
R5609	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		Q2521	RT3WLMM/EF/-X	TRANSISTOR		
R5610	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J		Q6101	RT1N141C-X	DIGI TRANSISTOR		
R5701	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		Q6102	RT1N141C-X	DIGI TRANSISTOR		
R5801	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		D1001	1SS133-T2	SI DIODE		
R5802	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		△ D1101	1A3G-T1	SI DIODE		
R5803	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		△ D1102	1A3G-T1	SI DIODE		
R5804	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		△ D1103	1A3G-T1	SI DIODE		
R5805	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		△ D1104	1A3G-T1	SI DIODE		
R5806	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		D1105	1SS133-T2	SI DIODE		
R5807	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		D1108	MTZJ6.8B-T2	Z DIODE		
R5808	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		△ D1201	GBU803	BRIDGE DIODE		
R5809	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		△ D1202	GBU803	BRIDGE DIODE		
R5810	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		△ D1301	2A02-M	DIODE		
R5811	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		△ D1302	2A02-M	DIODE		
R5812	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		D1401	MTZJ6.2B-T2	Z DIODE		
R5813	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		D1402	MTZJ30C-T2	Z DIODE		
R5814	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		D6101	SLI-343URC3F	LED		
R5901	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		D6102	SDPB50A0/GH/	LED		
R5902	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		D6301	SDPB50A0/GH/	LED		
R5903	QRL027J-470	OMF RESISTOR	47Ω 2W J		△ C1001	QCZ9132-472	C CAPACITOR	4700pF	
R5904	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		△ C1002	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
R5905	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		△ C1003	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
R5911	QRJ146J-3R9X	UNF C RESISTOR	3.9Ω 1/4W J		C1101	QFLC2AJ-472Z	M CAPACITOR	4700pF 100V J	
R5921	QRJ146J-3R9X	UNF C RESISTOR	3.9Ω 1/4W J		C1101	or QFNC2AJ-472Z	M CAPACITOR	4700pF 100V J	
R5931	QRJ146J-3R9X	UNF C RESISTOR	3.9Ω 1/4W J		C1102	QETM1EM-108	E CAPACITOR	1000uF 25V M	
R5941	QRJ146J-3R9X	UNF C RESISTOR	3.9Ω 1/4W J		C1103	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
R5951	QRJ146J-3R9X	UNF C RESISTOR	3.9Ω 1/4W J		C1104	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R5961	QRJ146J-3R9X	UNF C RESISTOR	3.9Ω 1/4W J		C1201	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
L5101	QQLZ038-R45	COIL	0.45uH		C1202	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
L5101	or QQLZ042-R45	COIL	0.45uH		C1203	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
L5201	QQLZ038-R45	COIL	0.45uH		C1204	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
L5201	or QQLZ042-R45	COIL	0.45uH		C1205	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
L5301	QQLZ038-R45	COIL	0.45uH		C1206	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
L5301	or QQLZ042-R45	COIL	0.45uH		C1207	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
L5401	QQLZ038-R45	COIL	0.45uH		C1208	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
L5401	or QQLZ042-R45	COIL	0.45uH		C1209	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
L5501	QQLZ038-R45	COIL	0.45uH		C1210	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
L5501	or QQLZ042-R45	COIL	0.45uH		C1211	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
L5601	QQLZ038-R45	COIL	0.45uH		C1212	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
L5601	or QQLZ042-R45	COIL	0.45uH		C1301	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
L5911	QQLZ038-R45	COIL	0.45uH		C1302	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
L5911	or QQLZ042-R45	COIL	0.45uH		C1401	QFLC1HJ-473Z	M CAPACITOR	0.047uF 50V J	
L5921	QQLZ038-R45	COIL	0.45uH		C1401	or QFN31HJ-473Z	M CAPACITOR	0.047uF 50V J	
L5921	or QQLZ042-R45	COIL	0.45uH		C1402	QEQC1HM-105Z	E CAPACITOR	1uF 50V M	
L5931	QQLZ038-R45	COIL	0.45uH		C1403	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
L5931	or QQLZ042-R45	COIL	0.45uH		C1404	QFNC2AJ-473Z	M CAPACITOR	0.047uF 100V J	
L5941	QQLZ038-R45	COIL	0.45uH		C1404	or QFN31HJ-473Z	M CAPACITOR	0.047uF 50V J	
L5941	or QQLZ042-R45	COIL	0.45uH		C1405	QETN1JM-107Z	E CAPACITOR	100uF 63V M	
L5951	QQLZ038-R45	COIL	0.45uH		C2501	QEQC1CM-227Z	E CAPACITOR	220uF 16V M	
L5951	or QQLZ042-R45	COIL	0.45uH		C2502	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
L5961	QQLZ038-R45	COIL	0.45uH						
L5961	or QQLZ042-R45	COIL	0.45uH						
CN501	QGA3901F2-05	CONNECTOR	W-B (1-5)						
CN504	QGB2510J1-13	CONNECTOR	B-B (1-13)						
EP501	E409182-001SM	GRAND TERMINAL							
EP581	GN40151-001A	BRACKET							

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C2511	QEKC1CM-227Z	E CAPACITOR	220uF 16V M		R6105	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J	
C2512	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		R6106	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C2521	QEKC1CM-227Z	E CAPACITOR	220uF 16V M		R6201	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
C2522	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		R6202	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
C6001	NCB31HK-102X	C CAPACITOR	1000pF 50V K		R6203	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
C6003	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		R6204	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
C6101	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		R6205	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
C7002	NCB31EK-223X	C CAPACITOR	0.022uF 25V K		R7001	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C7003	NCB31EK-223X	C CAPACITOR	0.022uF 25V K		R7002	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
C7004	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z		R7003	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
C7005	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z		R7603	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
C7006	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z		R7605	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
C7601	QER61CM-476Z	E CAPACITOR	47uF 16V M		R7606	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
C7602	NDC31HJ-470X	C CAPACITOR	47pF 50V J		R7608	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C7603	QER61CM-476Z	E CAPACITOR	47uF 16V M		R7609	NRSA63J-133X	MG RESISTOR	13kΩ 1/16W J	
C7604	NDC31HJ-470X	C CAPACITOR	47pF 50V J		R7610	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C7605	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R7611	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C7606	NDC31HJ-470X	C CAPACITOR	47pF 50V J		R7613	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C7607	NDC31HJ-221X	C CAPACITOR	220pF 50V J		R7614	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
C7608	NDC31HJ-221X	C CAPACITOR	220pF 50V J		R7615	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
C7610	NCF21CZ-105X	C CAPACITOR	1uF 16V Z		R7616	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
C7611	NCF21CZ-105X	C CAPACITOR	1uF 16V Z		R7617	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
C7612	NCF21CZ-105X	C CAPACITOR	1uF 16V Z		R7618	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
C7613	NCF21CZ-105X	C CAPACITOR	1uF 16V Z		R7619	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
C7614	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R7620	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
C7615	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R7621	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
C7616	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R7624	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C7617	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R7625	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C7618	NCF21CZ-105X	C CAPACITOR	1uF 16V Z		R7626	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C7619	NCF21CZ-105X	C CAPACITOR	1uF 16V Z		R7627	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C7620	NCF31HZ-473X	C CAPACITOR	0.047uF 50V Z		R7628	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
C7621	NDC31HJ-100X	C CAPACITOR	10pF 50V J		R7629	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C7622	NDC31HJ-100X	C CAPACITOR	10pF 50V J		R7630	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C7627	QER61CM-476Z	E CAPACITOR	47uF 16V M		R7631	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C7628	QER61CM-476Z	E CAPACITOR	47uF 16V M		R7632	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C7629	NDC31HJ-100X	C CAPACITOR	10pF 50V J		R7633	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C7630	NDC31HJ-100X	C CAPACITOR	10pF 50V J		R7634	NRSA63J-511X	MG RESISTOR	510Ω 1/16W J	
C7631	NDC31HJ-100X	C CAPACITOR	10pF 50V J		R7635	NRSA63J-511X	MG RESISTOR	510Ω 1/16W J	
C7632	NDC31HJ-100X	C CAPACITOR	10pF 50V J		R7636	NRSA63J-511X	MG RESISTOR	510Ω 1/16W J	
C7633	QER61CM-476Z	E CAPACITOR	47uF 16V M		R7637	NRSA63J-511X	MG RESISTOR	510Ω 1/16W J	
C7634	NCF21CZ-105X	C CAPACITOR	1uF 16V Z		R7638	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C7635	NDC31HJ-100X	C CAPACITOR	10pF 50V J		R7639	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C7636	NDC31HJ-100X	C CAPACITOR	10pF 50V J		R7640	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C7639	NCF21CZ-105X	C CAPACITOR	1uF 16V Z						
C7640	NCF21CZ-105X	C CAPACITOR	1uF 16V Z		△ T1101	QQT0545-002	POWER TRANSF		
R1001	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J		△ CN101	QGA7901C1-02	CONNECTOR	W-B (1-2)	
R1101	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J		△ CN102	QGA7901C1-04	CONNECTOR	W-B (1-4)	
R1401	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J		CN103	QGA3901C1-05	CONNECTOR	W-B (1-5)	
△ R1402	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J		CN104	QGA2502C1-05	CONNECTOR	W-B (1-5)	
△ R1403	QRJ146J-470X	UNF C RESISTOR	47Ω 1/4W J		CN105	QJK012-052000-E	SIN CR C-B WIRE		
R1404	QRJ146J-682X	UNF C RESISTOR	6.8kΩ 1/4W J		CN106	QJK050-092804-E	SIN CR C-B WIRE		
△ R1405	QRT02DJ-4R7X	MF RESISTOR	4.7Ω 2W J		CN514	QGB2510K2-13	CONNECTOR	B-B (1-13)	
R1407	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		CN524	QGB2510K2-13	CONNECTOR	B-B (1-13)	
R1408	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		CN601	QGF1036F2-09	CONNECTOR	FFC/FPC (1-9)	
R2501	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		CN602	QGF1036F2-29	CONNECTOR	FFC/FPC (1-29)	
R2502	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		CN761	QGF1036F2-13	CONNECTOR	FFC/FPC (1-13)	
R2503	NRSA63J-225X	MG RESISTOR	2.2MΩ 1/16W J		DI601	QLF0189-001	FL TUBE		
R2505	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J		EP101	E409182-001SM	GRAND TERMINAL		
R2506	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J		FC101	QNG0003-001Z	FUSE CLIP		
R2511	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		FC102	QNG0003-001Z	FUSE CLIP		
R2512	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		FC121	QNG0003-001Z	FUSE CLIP		
R2513	NRSA63J-225X	MG RESISTOR	2.2MΩ 1/16W J		FC122	QNG0003-001Z	FUSE CLIP		
R2515	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J		FC123	QNG0003-001Z	FUSE CLIP		
R2516	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J		FC124	QNG0003-001Z	FUSE CLIP		
R2521	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		FC131	QNG0003-001Z	FUSE CLIP		
R2522	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		FC132	QNG0003-001Z	FUSE CLIP		
R2523	NRSA63J-225X	MG RESISTOR	2.2MΩ 1/16W J		FC133	QNG0003-001Z	FUSE CLIP		
R2525	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J		FC134	QNG0003-001Z	FUSE CLIP		
R2526	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J		FW603	QUM024-07Z4Z4-E	PARA RIBON WIRE		
R6001	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J		FW605	QUM022-08Z4Z4-E	PARA RIBON WIRE		
R6002	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		HS121	GN30233-201A	HEATSINK		
R6003	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		J7001	QNS0276-001	3.5 JACK		
R6004	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		J7601	QNZ0915-002	SIEMENS CONNECT		
R6101	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J		K7001	NQR0007-002X	FERRITE BEADS		
R6102	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J		K7002	NQR0007-002X	FERRITE BEADS		
R6103	NRSA63J-241X	MG RESISTOR	240Ω 1/16W J		K7003	NQR0007-002X	FERRITE BEADS		
R6104	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J		K7004	NQR0007-002X	FERRITE BEADS		



△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
K7604	NQR0022-002X	FERRITE BEADS			C257	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
K7605	NQR0022-002X	FERRITE BEADS			C258	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
K7606	NQR0502-001X	FERRITE BEADS			C259	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
△ RY101	QSK0163-001	RELAY			C260	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
S6201	QSW1120-001Z	PUSH SW			C261	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
S6202	QSW1120-001Z	PUSH SW			C262	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
S6203	QSW1120-001Z	PUSH SW			C263	NEAF01CM-107X	E CAPACITOR	100uF 16V M	
S6204	QSW1120-001Z	PUSH SW			C301	NEAF0JM-227X	E CAPACITOR	220uF 6.3V M	
S6205	QSW1120-001Z	PUSH SW			C302	NEAF0GM-476X	E CAPACITOR	47uF 4V M	
S6206	QSW1120-001Z	PUSH SW			C303	NEAF0GM-476X	E CAPACITOR	47uF 4V M	
S6207	QSW1120-001Z	PUSH SW			C304	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	

## DVD module board

Block No. [0][4]

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
IC201	LA6502-X	IC			C316	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC301	MN2DS0018MA	IC			C318	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC302	MM1701CH-X	IC			C319	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC303	XC2164A51FM-X	IC			C320	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC305	MM1563DF-X	IC			C321	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC453	S-80830CNNB-G-W	IC			C322	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC505	K4S641632K-UC75	IC			C323	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC505	or K4S641632H-UC75	IC			C324	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
IC509	-----	IC(MICRO C ROM)			C325	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
IC510	BR24L32F-W-X	IC(DIGITAL)			C326	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
IC512	TC74LCX373FT-X	IC(DIGITAL)			C328	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
IC513	TC74LCX373FT-X	IC(DIGITAL)			C330	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC701	AK4387ET-X	IC			C331	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
IC702	AK4387ET-X	IC			C332	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC703	AK4387ET-X	IC			C333	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC704	AK5358ET-X	IC			C334	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC704	or AK5358AET-X	IC			C335	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
IC705	MM1615AN-X	IC			C337	NCB31CK-183X	C CAPACITOR	0.018uF 16V K	
IC801	MM1565AF-X	IC			C338	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
IC901	MN864700	IC			C339	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
IC902	TC7WBD125AFK-X	IC			C340	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
IC905	MM1563DF-X	IC			C341	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
IC906	LD2981ABM50-X	IC			C345	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
Q101	KTA1001/Y-X	TRANSISTOR			C347	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
Q101	or 2SB1424/R/-W	TRANSISTOR			C348	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
Q102	2SC4617/R/-X	TRANSISTOR			C349	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
Q103	KTA1001/Y-X	TRANSISTOR			C350	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q103	or 2SB1424/R/-W	TRANSISTOR			C351	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q104	2SC4617/R/-X	TRANSISTOR			C352	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
Q801	KRA104S-X	DIGI TRANSISTOR			C353	NCB31HK-561X	C CAPACITOR	560pF 50V K	
Q801	or UN2113-X	TRANSISTOR			C354	NCB31HK-561X	C CAPACITOR	560pF 50V K	
Q901	2SB709A/RS/-X	TRANSISTOR			C356	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
Q902	2SD601A/RS/-X	TRANSISTOR			C359	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
Q903	2SD601A/RS/-X	TRANSISTOR			C370	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
D903	BAV99L-X	SI DIODE			C371	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C372	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C102	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C373	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C374	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C104	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C375	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C105	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M		C378	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C106	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M		C379	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C107	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C380	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C108	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M		C381	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C201	NDC31HJ-221X	C CAPACITOR	220pF 50V J		C382	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C202	NDC31HJ-221X	C CAPACITOR	220pF 50V J		C383	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C391	NEAF0JM-227X	E CAPACITOR	220uF 6.3V M	
C204	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C392	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C205	NCB31HK-271X	C CAPACITOR	270pF 50V K		C393	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C206	NDC31HJ-151X	C CAPACITOR	150pF 50V J		C455	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C210	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		C551	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C211	NCB31HK-223X	C CAPACITOR	0.022uF 50V K		C552	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C217	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C553	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C251	NCB31AK-474X	C CAPACITOR	0.47uF 10V K		C554	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C256	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	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C562	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		R108	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
C563	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R109	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C564	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R111	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
C701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R112	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
C702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R113	NRS181J-180X	MG RESISTOR	18Ω 1/8W J	
C703	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R114	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
C704	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M		R115	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C706	NEAF1CM-106X	E CAPACITOR	10uF 16V M		R116	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
C707	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R117	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C708	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R125	NRSA63J-1R0X	MG RESISTOR	1Ω 1/16W J	
C709	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R127	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
C711	NCB21CK-105X	C CAPACITOR	1uF 16V K		R128	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
C712	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R201	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
C713	NCB21CK-105X	C CAPACITOR	1uF 16V K		R202	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C740	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R204	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
C741	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		R205	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
C742	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R206	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
C743	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R207	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C744	NEAF1CM-106X	E CAPACITOR	10uF 16V M		R213	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C745	NEAF1CM-106X	E CAPACITOR	10uF 16V M		R214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C801	NCB21CK-105X	C CAPACITOR	1uF 16V K		R219	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
C802	NCB21AK-225X	C CAPACITOR	2.2uF 10V K		R220	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
C803	NEAF0JM-227X	E CAPACITOR	220uF 6.3V M		R221	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
C804	NCB31HK-471X	C CAPACITOR	470pF 50V K		R251	NRS125J-R39X	MG RESISTOR	0.39Ω 1/2W J	
C901	NCB21AK-105X	C CAPACITOR	1uF 10V K		R259	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C902	NCB31HK-471X	C CAPACITOR	470pF 50V K		R300	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C903	NCB21AK-225X	C CAPACITOR	2.2uF 10V K		R301	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C905	NEAF0GM-476X	E CAPACITOR	47uF 4V M		R302	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C906	NEAF0GM-476X	E CAPACITOR	47uF 4V M		R303	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
C914	NCF21CZ-225X	C CAPACITOR	2.2uF 16V Z		R304	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
C916	NCF21CZ-225X	C CAPACITOR	2.2uF 16V Z		R305	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C921	NCF21CZ-225X	C CAPACITOR	2.2uF 16V Z		R306	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C922	NCF21CZ-225X	C CAPACITOR	2.2uF 16V Z		R307	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C927	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R309	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C928	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		R310	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C929	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R311	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C930	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		R312	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C931	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M		R314	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C932	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		R316	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C933	NCB30JK-105X	C CAPACITOR	1uF 6.3V K		R318	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
C950	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R322	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C951	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R323	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C952	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R324	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C953	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R325	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C954	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R326	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C955	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R327	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
C956	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R332	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C957	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R333	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C958	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R334	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C959	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R335	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C960	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R336	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C961	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R337	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C962	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R338	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C963	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R339	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C964	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R340	NRSA63D-303X	MG RESISTOR	30kΩ 1/16W D	
C965	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R341	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	
C966	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R342	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
C967	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R345	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C968	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R346	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C969	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R347	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
C970	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R348	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C971	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R351	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
C972	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R352	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
C973	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R353	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C974	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R354	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C975	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R355	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C976	NDC31HJ-1R0X	C CAPACITOR	1pF 50V J		R356	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C977	NDC31HJ-1R0X	C CAPACITOR	1pF 50V J		R357	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C978	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R358	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C979	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R359	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
					R360	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R361	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R362	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R103	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		R364	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R104	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J		R365	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R105	NRS181J-180X	MG RESISTOR	18Ω 1/8W J		R367	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R106	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J		R369	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R107	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R370	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R371	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R978	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R372	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R980	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R373	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R981	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R374	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		R982	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R375	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		R990	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R376	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R991	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R377	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J		R992	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R380	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		R999	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R381	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		L901	NQR0597-001X	EMI FILTER		
R382	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		L902	NQR0597-001X	EMI FILTER		
R383	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		L903	NQR0597-001X	EMI FILTER		
R384	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		L904	NQR0597-001X	EMI FILTER		
R385	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		CN101	QGF0523F3-24W	CONNECTOR	FFC/FPC (1-24)	
R386	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		CN201	QGF1037F3-08W	CONNECTOR	FFC/FPC (1-8)	
R387	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		CN701	QGF1016F8-26W	CONNECTOR	FFC/FPC (1-26)	
R388	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		CN702	QGF1016C6-18W	CONNECTOR	FFC/FPC (1-18)	
R389	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		CN801	QGF1016C6-09W	CONNECTOR	FFC/FPC (1-9)	
R390	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		CN811	QGA2001F6-05X	CONNECTOR	W-B (1-5)	
R392	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		J801	NNZ0161-001	CONNECTOR		
R458	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		K101	NQR0502-001X	FERRITE BEADS		
R531	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K351	NQR0502-001X	FERRITE BEADS		
R535	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		K352	NQR0502-001X	FERRITE BEADS		
R541	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		K353	NQR0502-001X	FERRITE BEADS		
R542	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		K354	NQR0022-002X	FERRITE BEADS		
R701	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J		K355	NQR0022-002X	FERRITE BEADS		
R714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		K360	NQR0360-002X	COIL		
R715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		K361	NQR0360-002X	COIL		
R716	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		K362	NQR0360-002X	COIL		
R718	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		K363	NQR0360-002X	COIL		
R719	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		K364	NQR0360-002X	COIL		
R721	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		K365	NQR0360-002X	COIL		
R722	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		K366	NQR0360-002X	COIL		
R723	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		K367	NQR0360-002X	COIL		
R724	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		K370	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R725	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		K501	NQR0502-001X	FERRITE BEADS		
R726	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		K701	NQR0022-002X	FERRITE BEADS		
R727	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		K702	NQR0022-002X	FERRITE BEADS		
R728	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		K703	NQR0022-002X	FERRITE BEADS		
R730	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		K704	NQR0022-002X	FERRITE BEADS		
R731	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		K705	NQR0022-002X	FERRITE BEADS		
R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		K706	NQR0022-005X	FERRITE BEADS		
R741	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		K707	NQR0022-002X	FERRITE BEADS		
R742	NRSA63J-5R1X	MG RESISTOR	5.1Ω 1/16W J		K708	NQR0022-002X	FERRITE BEADS		
R811	NRS181J-330X	MG RESISTOR	33Ω 1/8W J		K709	NQR0022-002X	FERRITE BEADS		
R812	NRS181J-330X	MG RESISTOR	33Ω 1/8W J		K710	NQR0022-002X	FERRITE BEADS		
R813	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		K711	NQR0022-002X	FERRITE BEADS		
R814	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		K720	NQR0022-002X	FERRITE BEADS		
R819	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		K721	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R859	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		K722	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R860	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		K726	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R861	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		K811	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R908	NRSA63F-433X	MG RESISTOR	43kΩ 1/16W F		K812	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R909	NRSA63F-511X	MG RESISTOR	510Ω 1/16W F		K901	NQR0502-001X	FERRITE BEADS		
R921	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		K902	NQR0502-001X	FERRITE BEADS		
R922	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		K903	NQR0502-001X	FERRITE BEADS		
R925	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		K904	NQR0502-001X	FERRITE BEADS		
R926	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		K905	NQR0502-001X	FERRITE BEADS		
R933	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J		K906	NQR0502-001X	FERRITE BEADS		
R934	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J		K912	NQR0502-001X	FERRITE BEADS		
R937	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		K913	NQR0502-001X	FERRITE BEADS		
R938	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		TH301	NAD0025-103X	N THERMISTOR	10kΩ	
R939	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		X301	NAX0741-001X	CRYSTAL	27.000MHz	
R940	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		X302	NAX0376-002X	CRYSTAL		
R941	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R942	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J						
R943	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R944	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R950	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R952	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R967	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R968	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R969	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R970	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R971	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R973	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R974	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R975	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R977	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						

## DVD loading switch board

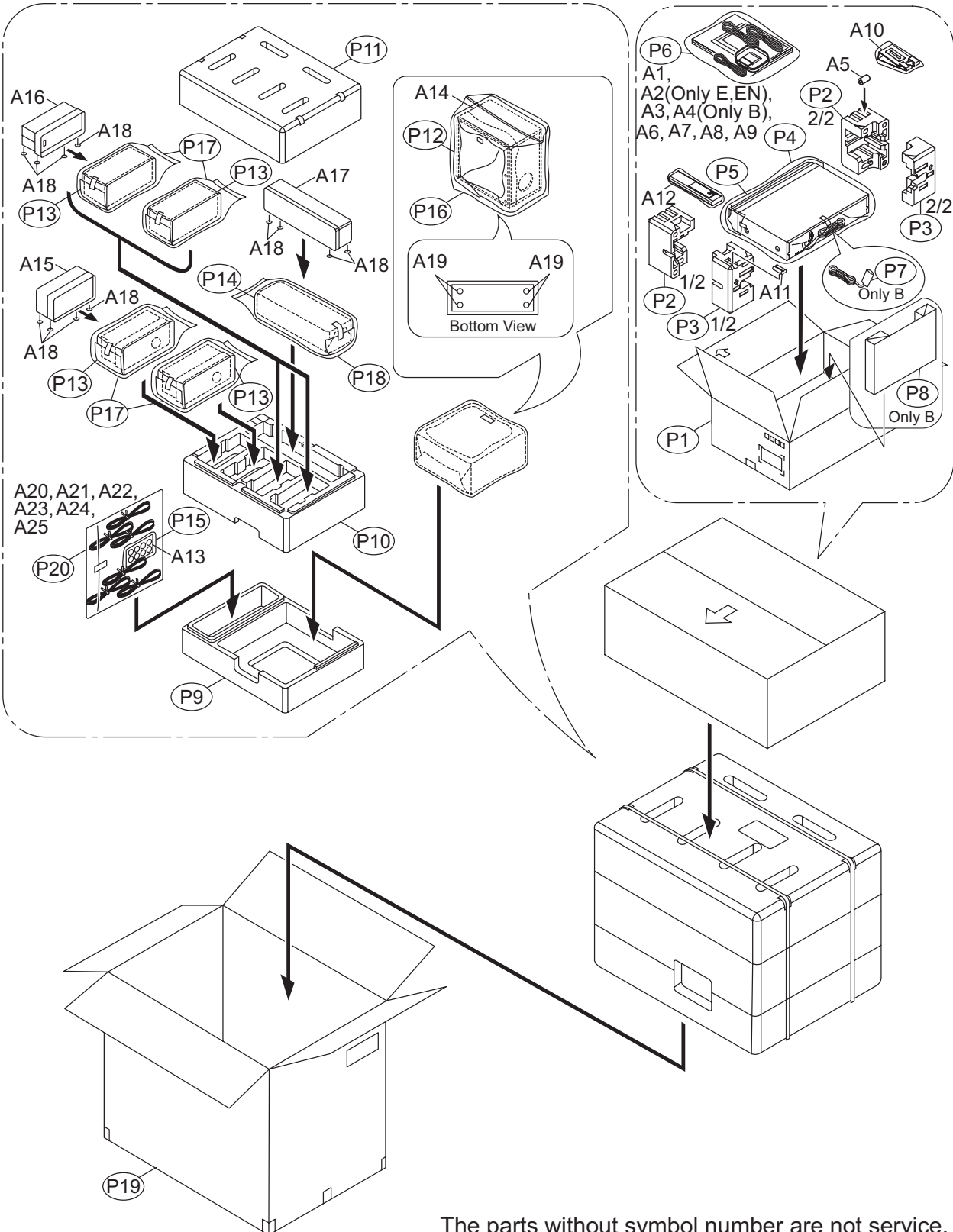
Block No. [0][5]

△ Symbol No.	Part No.	Part Name	Description	Local
CN1	QGF1016F9-05	CONNECTOR	FFC/FPC (1-5)	
S1	QSW1074-001	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	LVT1704-003A	INST BOOK	ENG	B
A 1	LVT1704-004A	INST BOOK	GER FRE	E
A 1	LVT1704-006A	INST BOOK	DAN FIN SWE	EN
A 1	LVT1704-008A	INST BOOK	HUN CZE POL	EV
A 2	LVT1704-005A	INST BOOK	ITA DUT	E
A 2	LVT1704-007A	INST BOOK	SPA POR	EN
A 3	LVT1755-001A	SHEET		B,E,EN
A 3	LVT1755-002A	SHEET		EV
A 4	VNA3000-204	REGIST CARD		B
A 5	QQR0491-002	FERRITE CORE	FL1 TDK (BLACK)	
A 6	-----	WARRANTY CARD	BT-54032-1	
A 7	QAM0955-002	iPod CABLE		
A 8	QAL0014-003	AM LOOP ANT		
A 9	QAL0457-001	ANT.WIRE		
A10	LV37205-003A	STAND ASSY		
A11	-----	BATTERY	(x2)	
A12	RM-STHD5R	REMOTE CONTROL UNIT		
A13	9000009301	FOOT	(x2)	
A14	AB160039-01	SPK WITH BOX-W		
A15	AB077025-01	SPK WITH BOX-F	(x2)	
A16	AB077025-02	SPK WITH BOX-S	(x2)	
A17	AB077026-01	SPK WITH BOX-C		
A18	9000007941	FOOT	(x20)	
A19	9000006301	FOOT	(x4)	
A20	6200045901	SPK CORD-C		
A21	6200045911	SPK CORD-FR		
A22	6200045921	SPK CORD-FL		
A23	6200045931	SPK CORD-SR		
A24	6200045941	SPK CORD-SL		
A25	6200047501	SPEAKER CORD-SW		
P 1	LV37599-017A	CARTON BOX		B
P 1	LV37599-002A	CARTON BOX		E,EN,EV
P 2	GN10127-204A	PACKING PAD(F)		
P 3	GN10128-203A	PACKING PAD(R)		
P 4	QPC06506515PB	POLY BAG	65cm x 65cm	
P 5	QPH01404905H	POLY SHEET	14cm x 49cm	
P 6	QPA02503503PB	POLY BAG	25cm x 35cm	
P 7	QPJ01203040	POLY SHEET	12cm x 30cm	B
P 8	LV34107-008A	PACKING SHEET		B
P 9	LV11399-001A	CUSHION-A		
P10	LV11399-002A	CUSHION-B		
P11	LV11399-003A	CUSHION-C		
P12	8500066131	MIRROR SHEET		
P13	8500066141	MIRROR SHEET	(x4)	
P14	8500066151	MIRROR SHEET		
P15	8500047111	POLY BAG		
P16	8500066911	POLY BAG		
P17	8500066921	POLY BAG	(x4)	
P18	8500066931	POLY BAG		
P19	LV35831-0C2A	CARTON BOX		
P20	8500032771	POLY BAG		

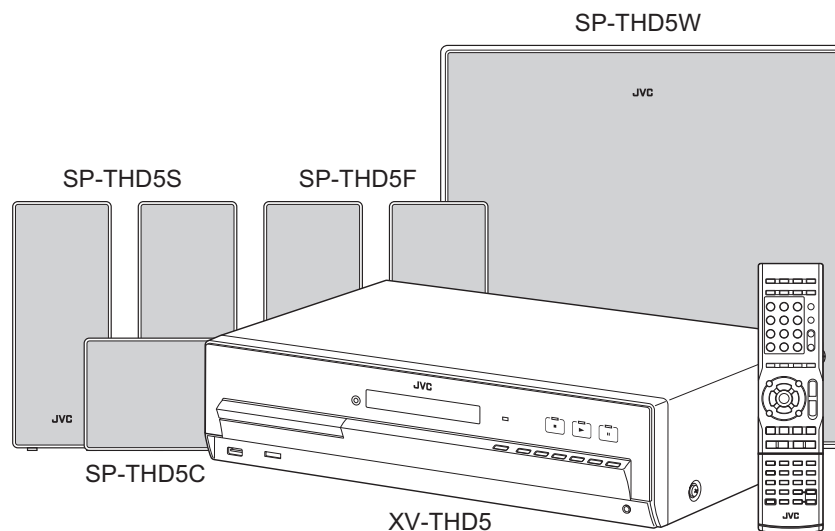
# JVC

## SCHEMATIC DIAGRAMS

### DVD DIGITAL CINEMA SYSTEM

# TH-D5B, TH-D5E, TH-D5EN TH-D5EV

CD-ROM No.SML200707



**Radio Data System    Digital Direct Progressive Scan**

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

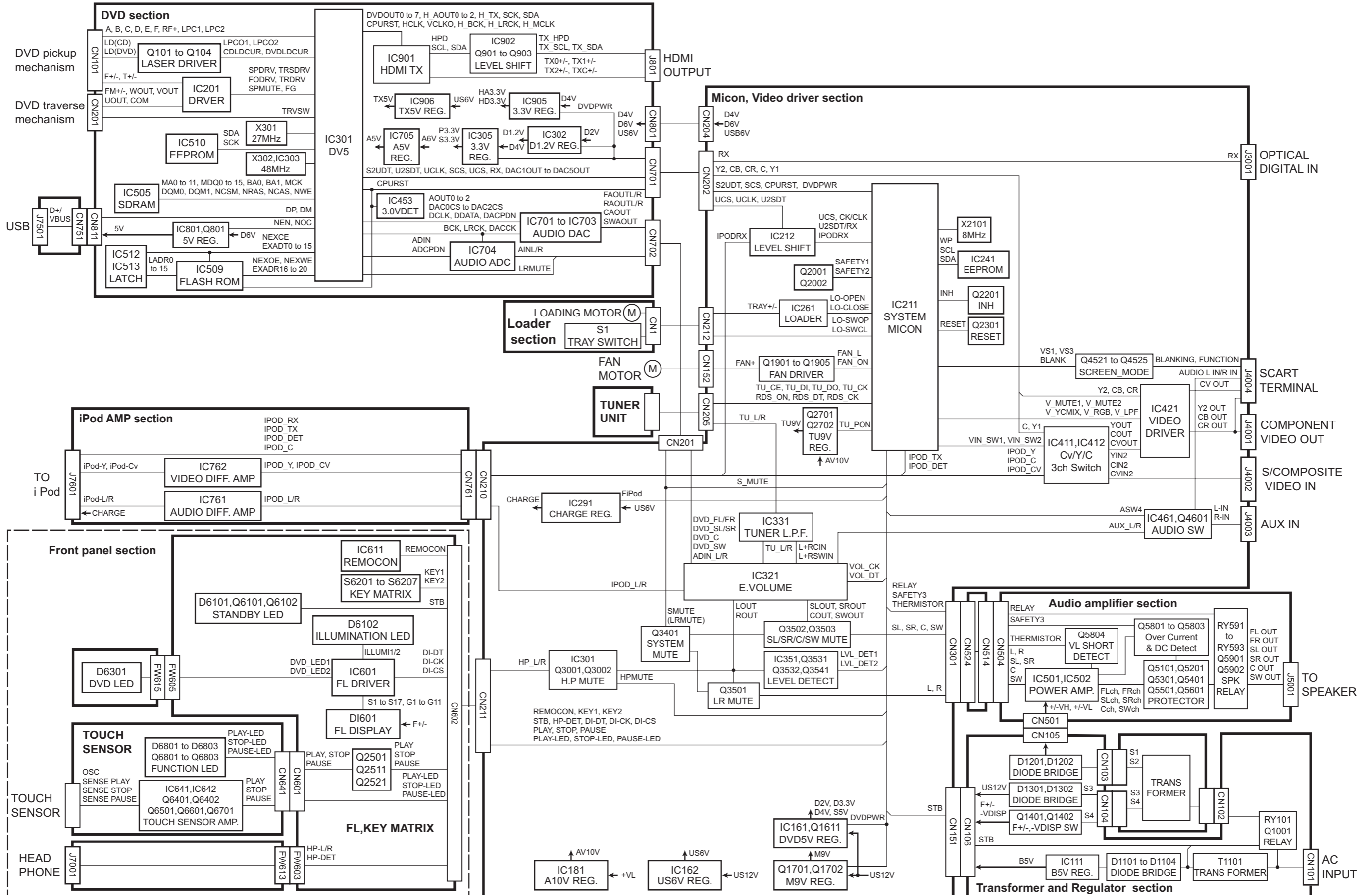
Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)

### Contents

Block diagrams .....	2-1
Standard schematic diagrams .....	2-2
Printed circuit boards .....	2-14 to 18

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.

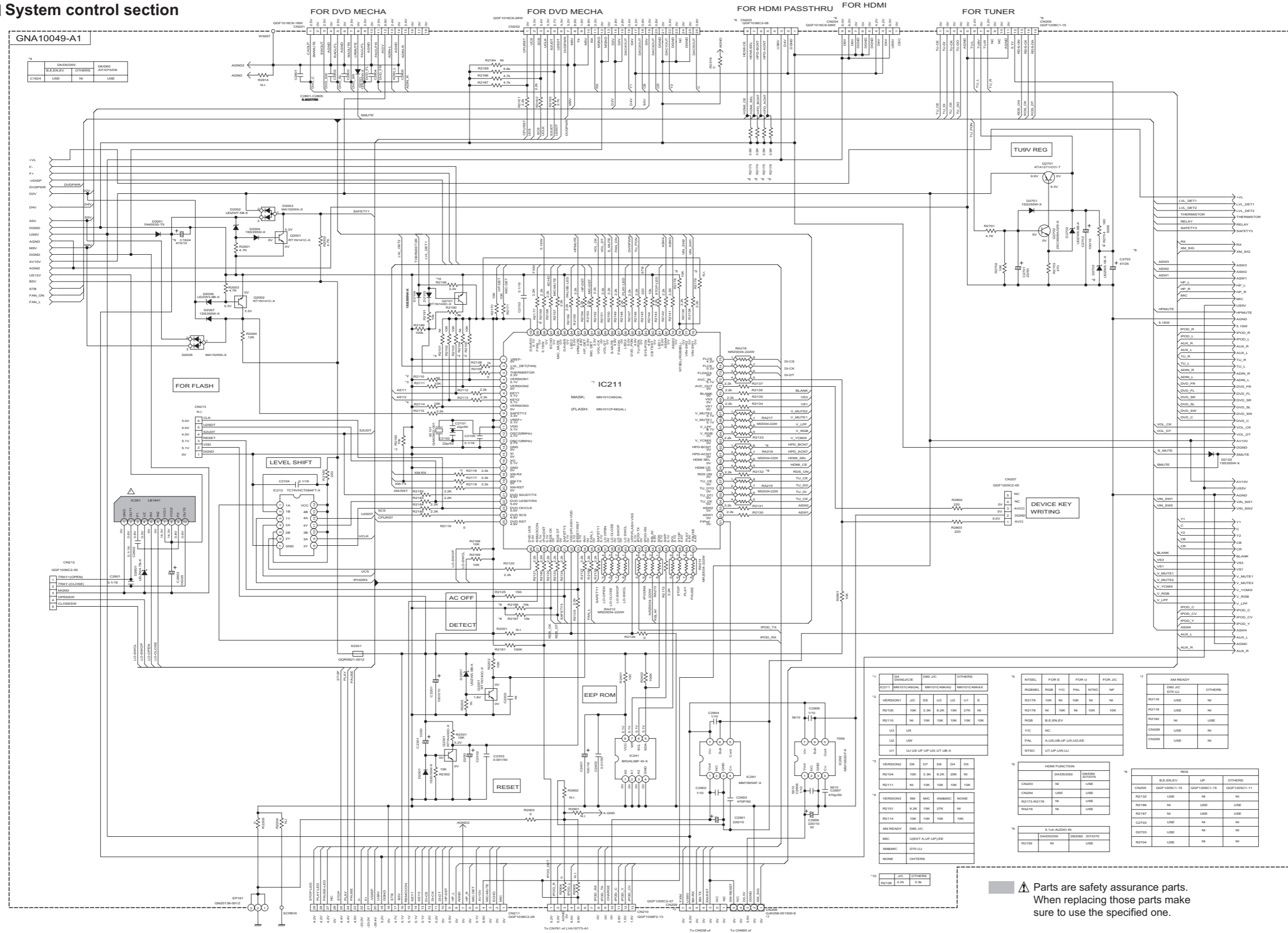
# Block diagram







# System control section



IC211	DE	DR	JIC	EE	U3	U2	U1	E
VERSION1	JIC	EE	U3	U2	U1	E		
R2105	10K	3.3K	8.2K	10K	27K	NI		
R2110	NI	10K	10K	10K	10K	10K		
U3	LX							
U2	LW							
U1	LU	LS	LU	LU	LU	LU	LU	LU

VERSION2	DE	DR	JIC	EE	U3	U2	U1	E
R2104	10K	3.3K	8.2K	20K	20K	NI		
R2111	NI	10K	10K	10K	10K	10K		

VERSION3	XM	MHC	XMAMC	NONE
R2101	8.2K	10K	27K	NI
R2114	10K	10K	10K	10K

XM READY	DR0 JIC	DR1 UJ	OTHERS
R2118	USE	NI	NI
R2119	USE	NI	NI
R2120	NI	USE	USE
C2008	USE	NI	NI
C2009	USE	NI	NI

NTSEL	FOR E	FOR U	FOR JIC
R2175	10K	NI	10K
R2176	NI	10K	NI
RGB	B,E,EN,EV	NI	USE
YIC	NC	NI	USE
FPAL	A,US,LU,LP,LU,LE,EE	NI	USE
NTSC	UT,UP,LUW,UJ	NI	USE

HDMI FUNCTION	D4D5D6D9	D6D9D7D9D8
CN203	NI	USE
CN204	USE	USE
R2173-R2176	NI	USE
R2416	NI	USE

5.1ch AUDIO IN	D4D5D6D9	D6D9D7D9D8
R2159	NI	USE

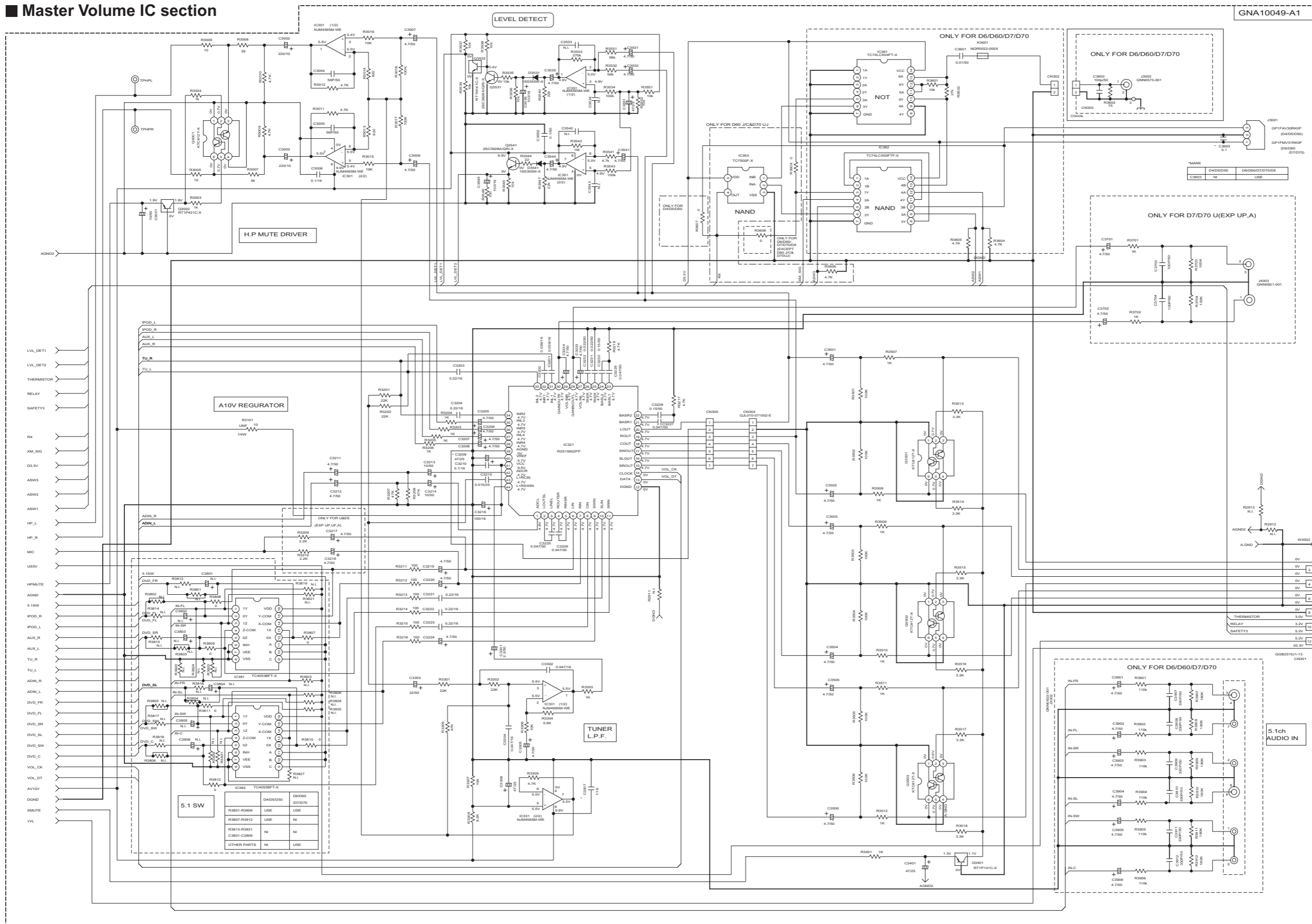
RGB	B,E,EN,EV	UP	OTHERS
CN205	GSF1209C1-15	GSF1209C1-15	GSF1209C1-11
R2132	USE	NI	NI
R2136	NI	USE	USE
R2187	NI	USE	USE
C2703	USE	NI	NI
D2703	USE	NI	NI
R2704	USE	NI	NI

JIC	OTHERS
R2108	2.2K 3.3K

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

# Master Volume IC section



H.P. MUTE DRIVER

LEVEL DETECT

A10V REGULATOR

TUNER L.P.F.

5.1 SW

	D4/D5/D6	D6/D7/D8
R3801-R3806	USE	USE
R3807-R3812	USE	USE
R3813-R3831	NI	NI
C3801-C3808	NI	NI
OTHER PARTS	NI	USE

ONLY FOR D6/D60/D7/D70

ONLY FOR D7/D70 U(EXP UP,A)

ONLY FOR D6/D60/D7/D70

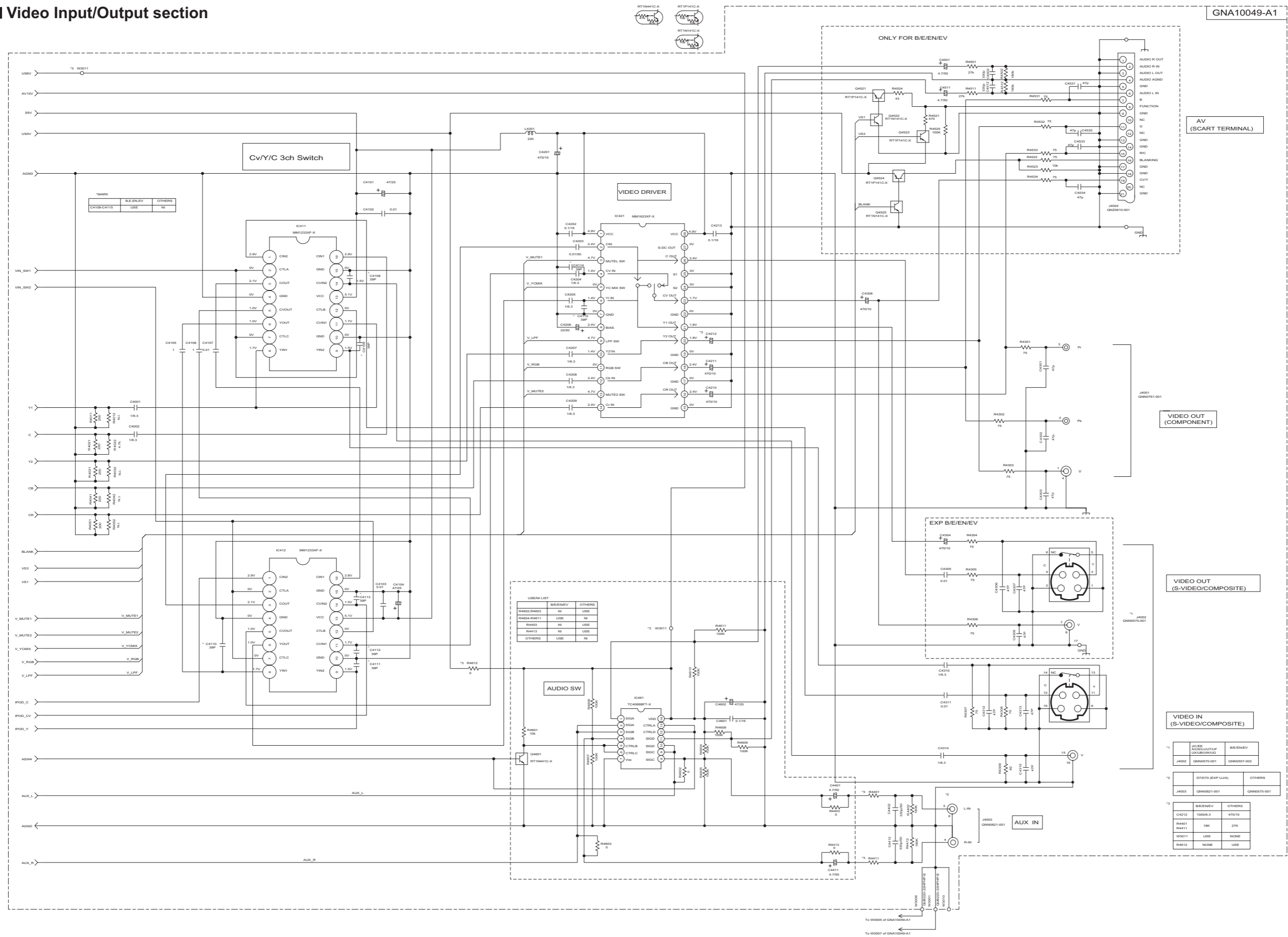
5.1ch AUDIO IN

MARK	D4/D5/D6	D6/D7/D8
C3803	NI	USE

GNA10049-A1



# Video Input/Output section



USER LIST

	B/E/EN/VEV	OTHERS
R4602-R4603	NI	USE
R4604-R4611	USE	NI
R4613	NI	USE
OTHERS	USE	NI

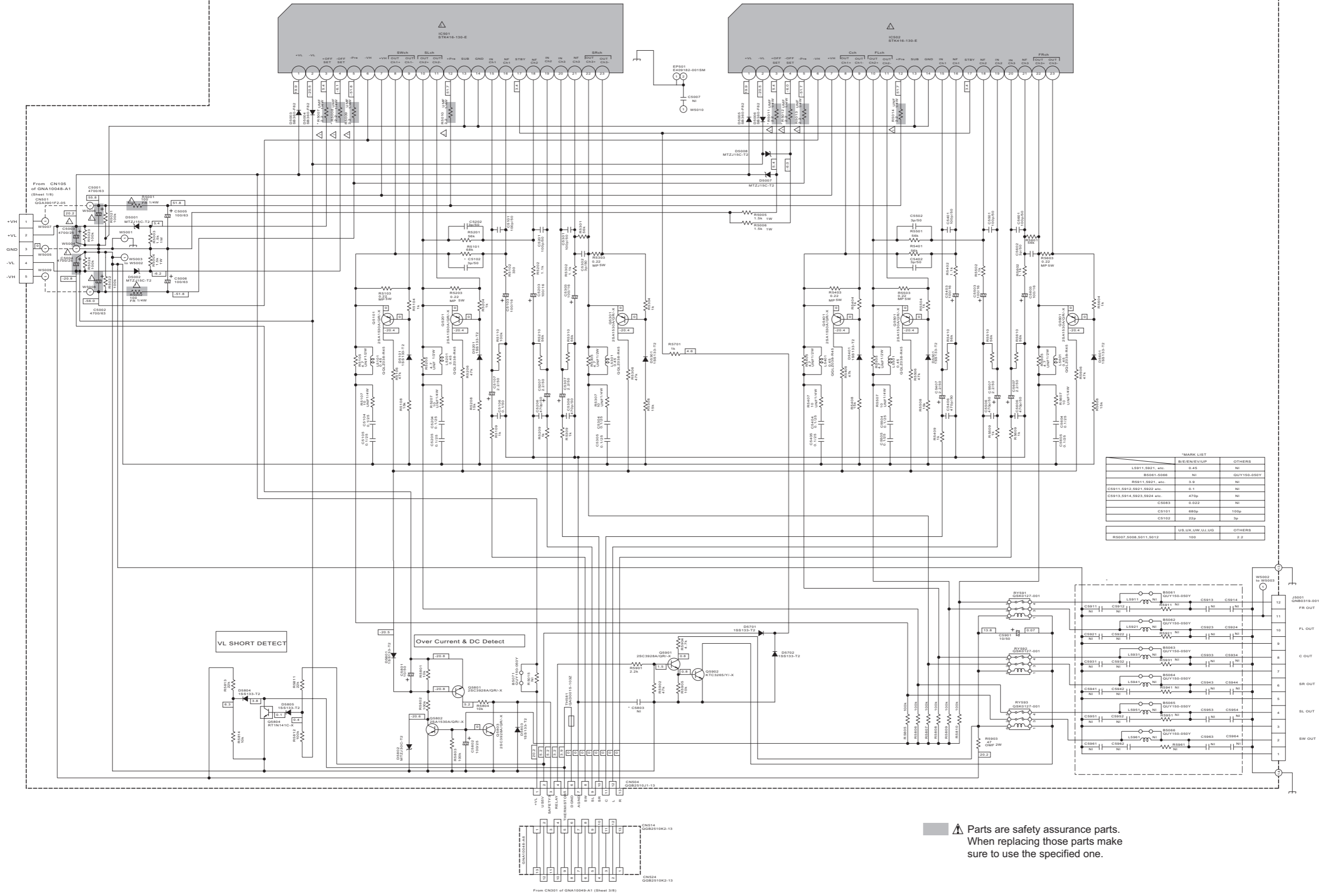
J4002	OTHERS
QNR021-001	QNR021-002

J4003	OTHERS
QNR021-001	QNR021-001

	B/E/EN/VEV	OTHERS
C4212	1000K.3	47010
R4401	10K	27K
R4411	USE	NONE
W0011	USE	NONE
R4412	NONE	USE

Power amplifier section

GNA10050-A1

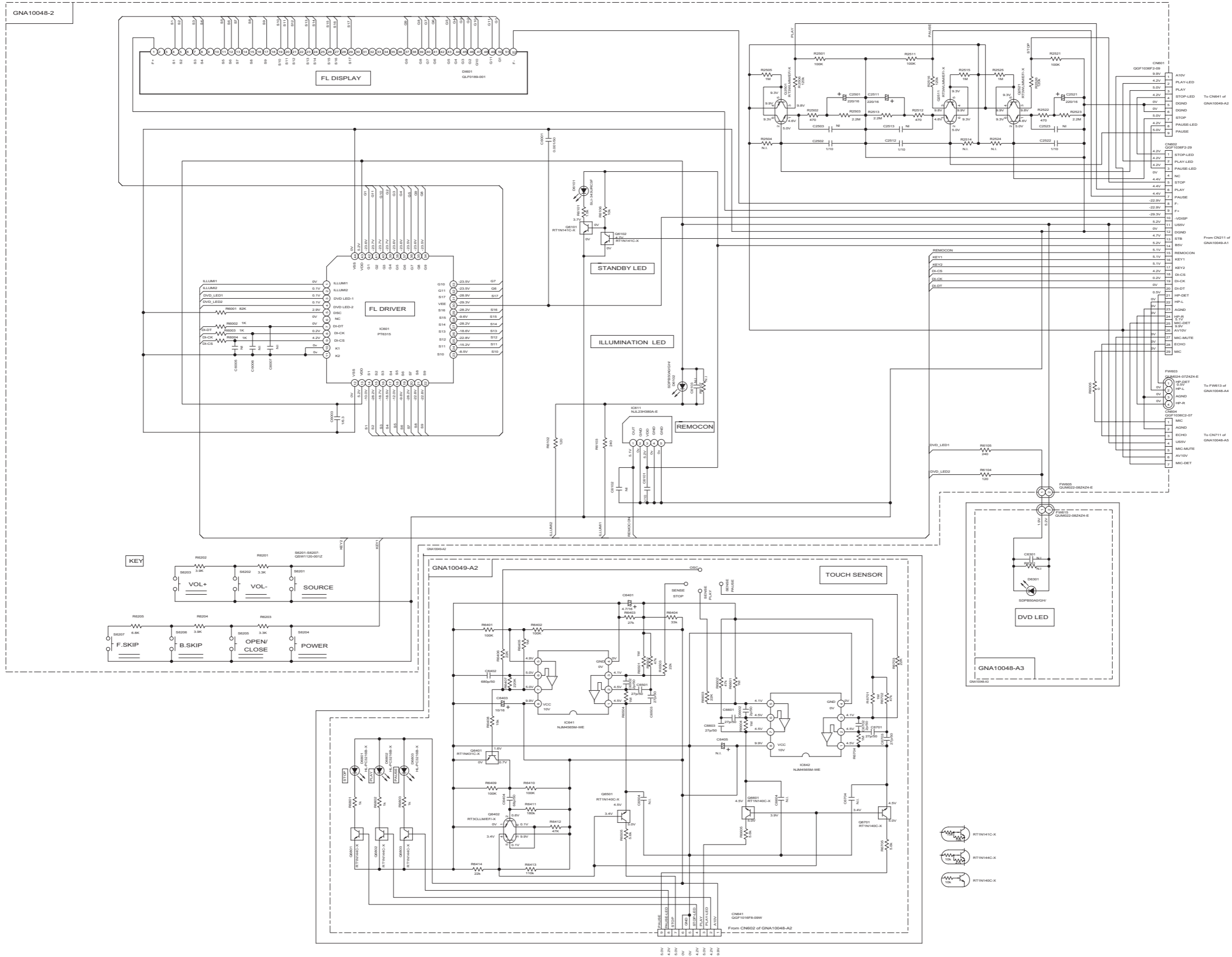


\*MARK LIST

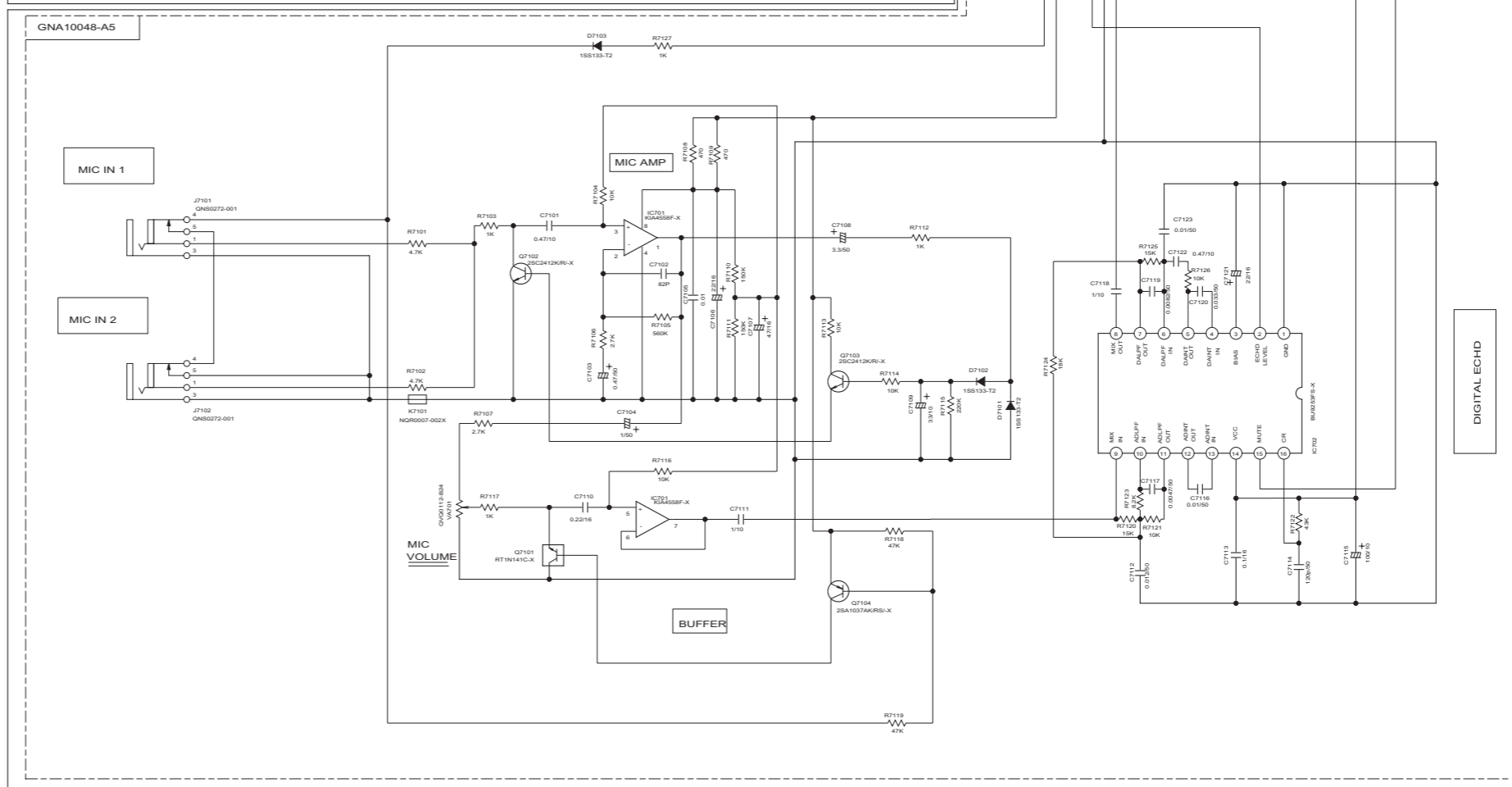
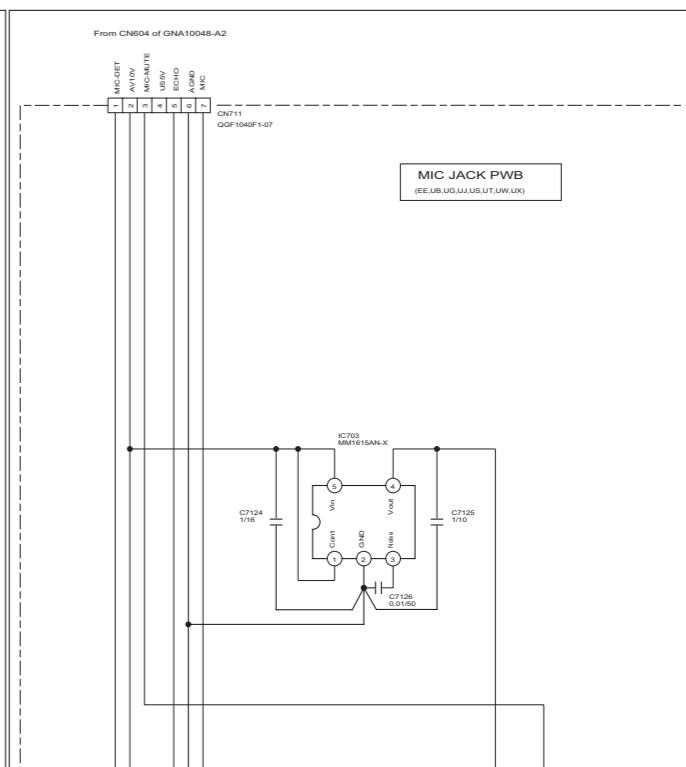
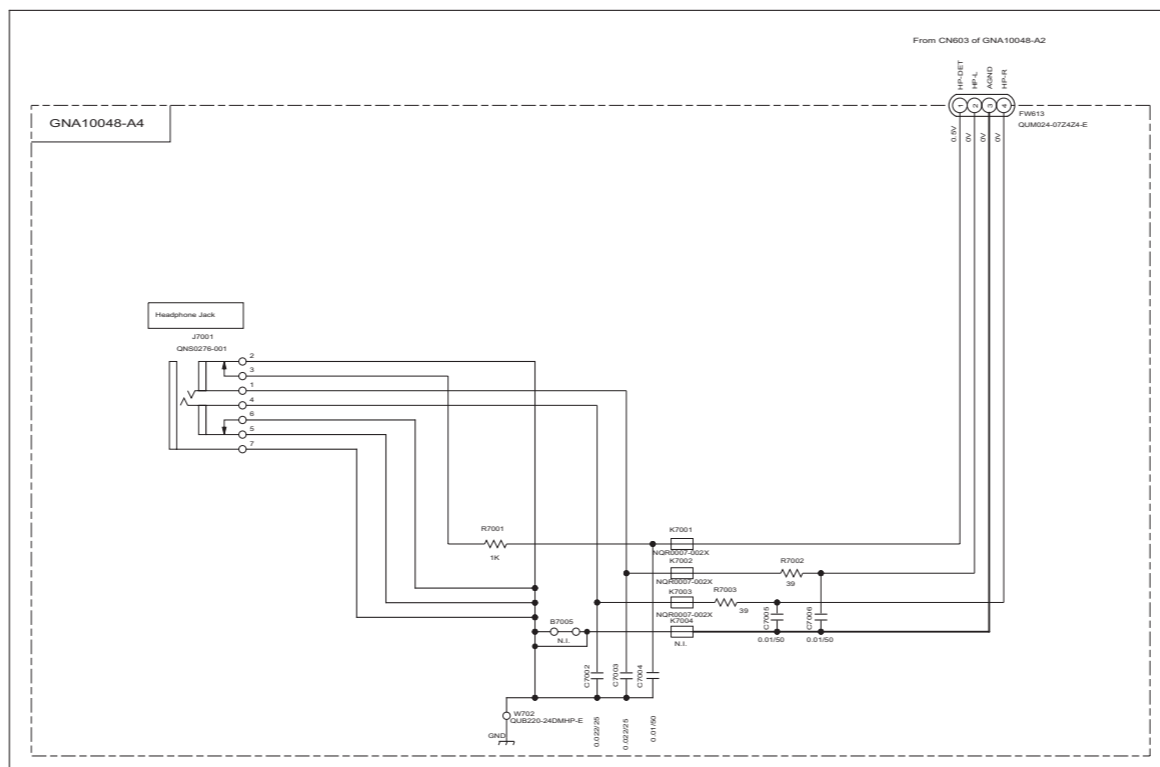
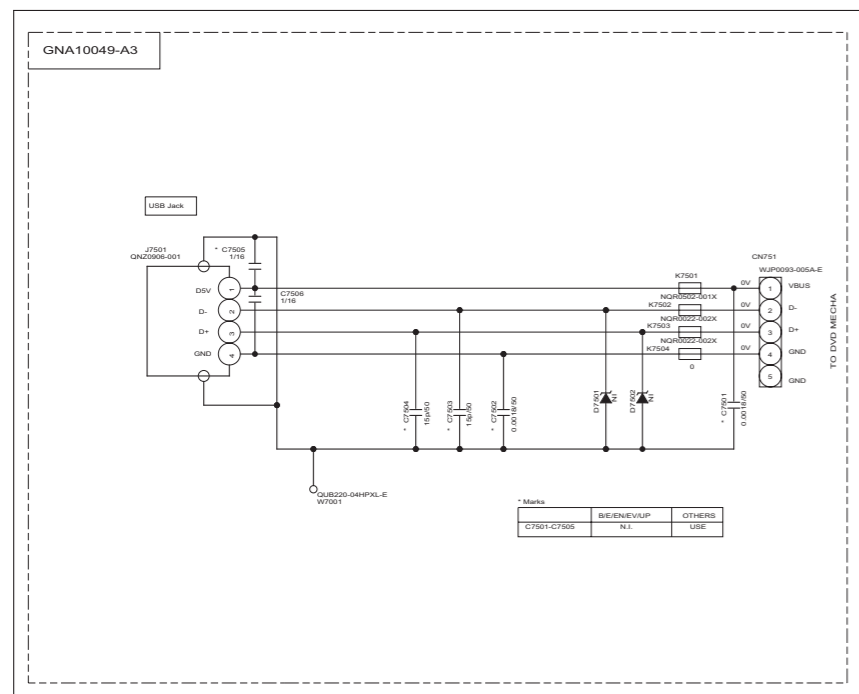
	B/E/EN/VE/UP	OTHERS
L5911,5921, etc.	0.45	NI
B5061-5066	NI	QUY150-050Y
B5011,5921, etc.	3.3	NI
C5911,5912,5921,5923 etc.	0.1	NI
C5913,5914,5923,5924 etc.	470p	NI
C5963	0.022	NI
C5101	880p	100p
C5102	22p	3p
R5007,5008,5011,5012	100	OTHERS
		3.3

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

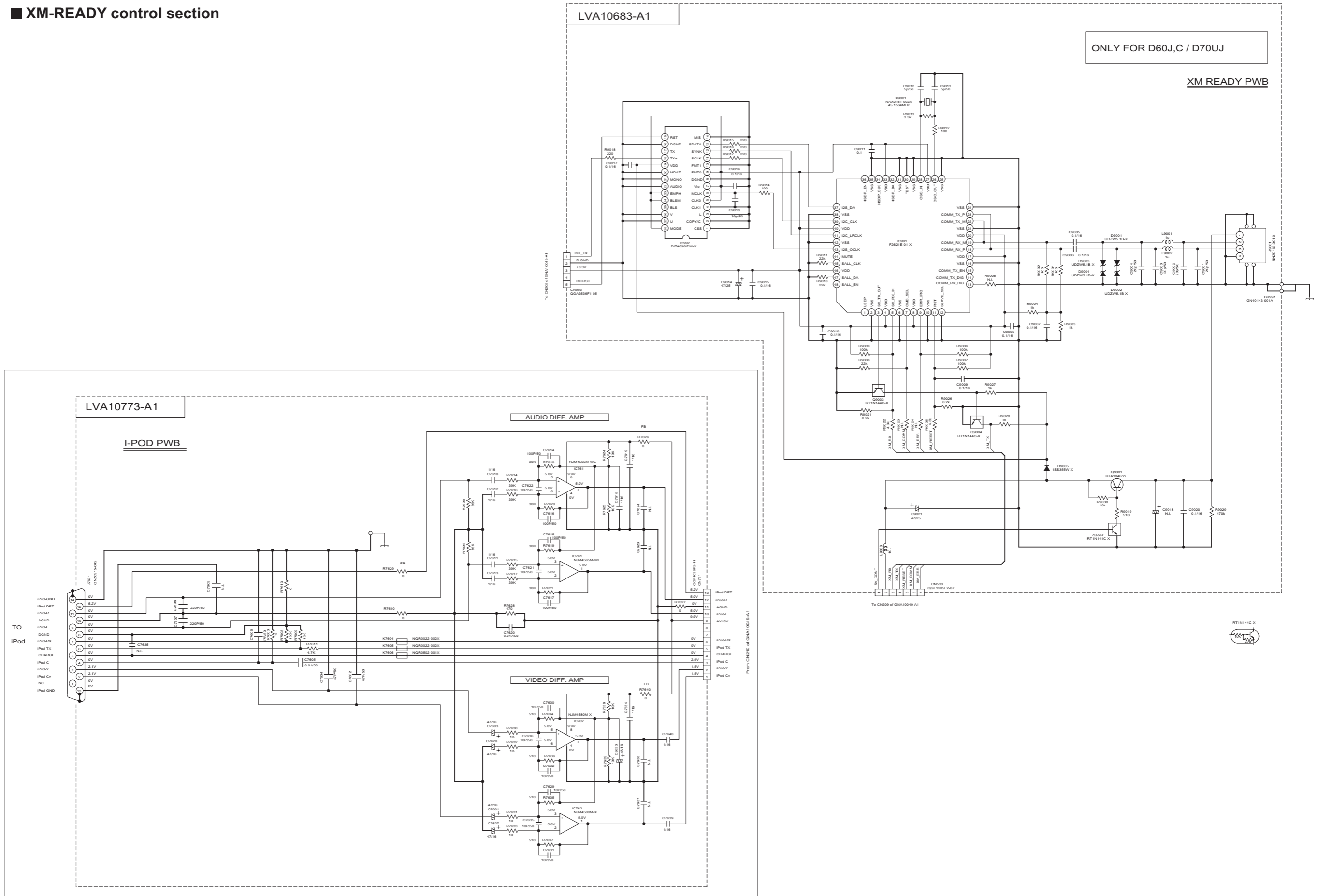
■ FL/ User key control section



# Headphone/USB/Mic control section

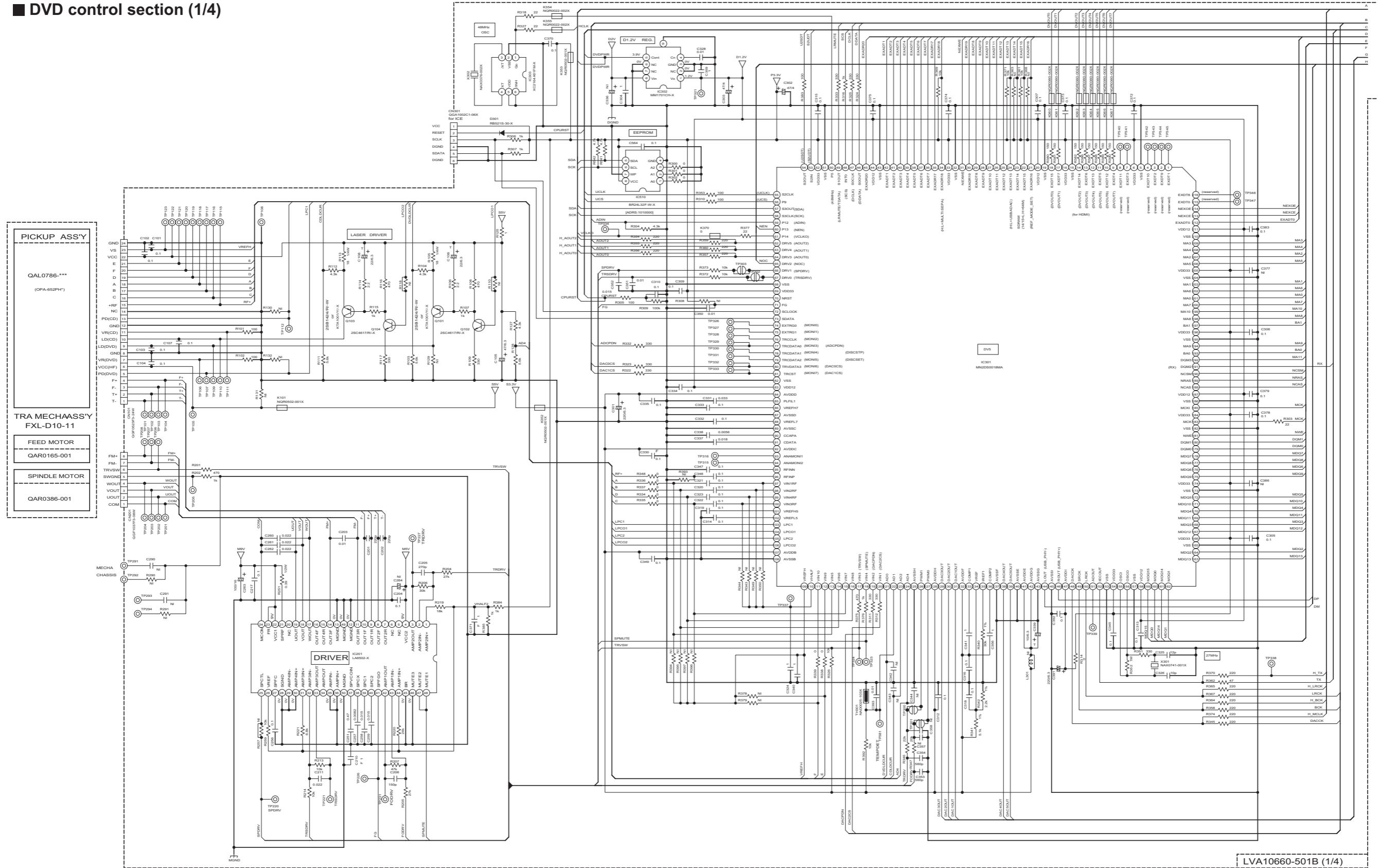


■ XM-READY control section





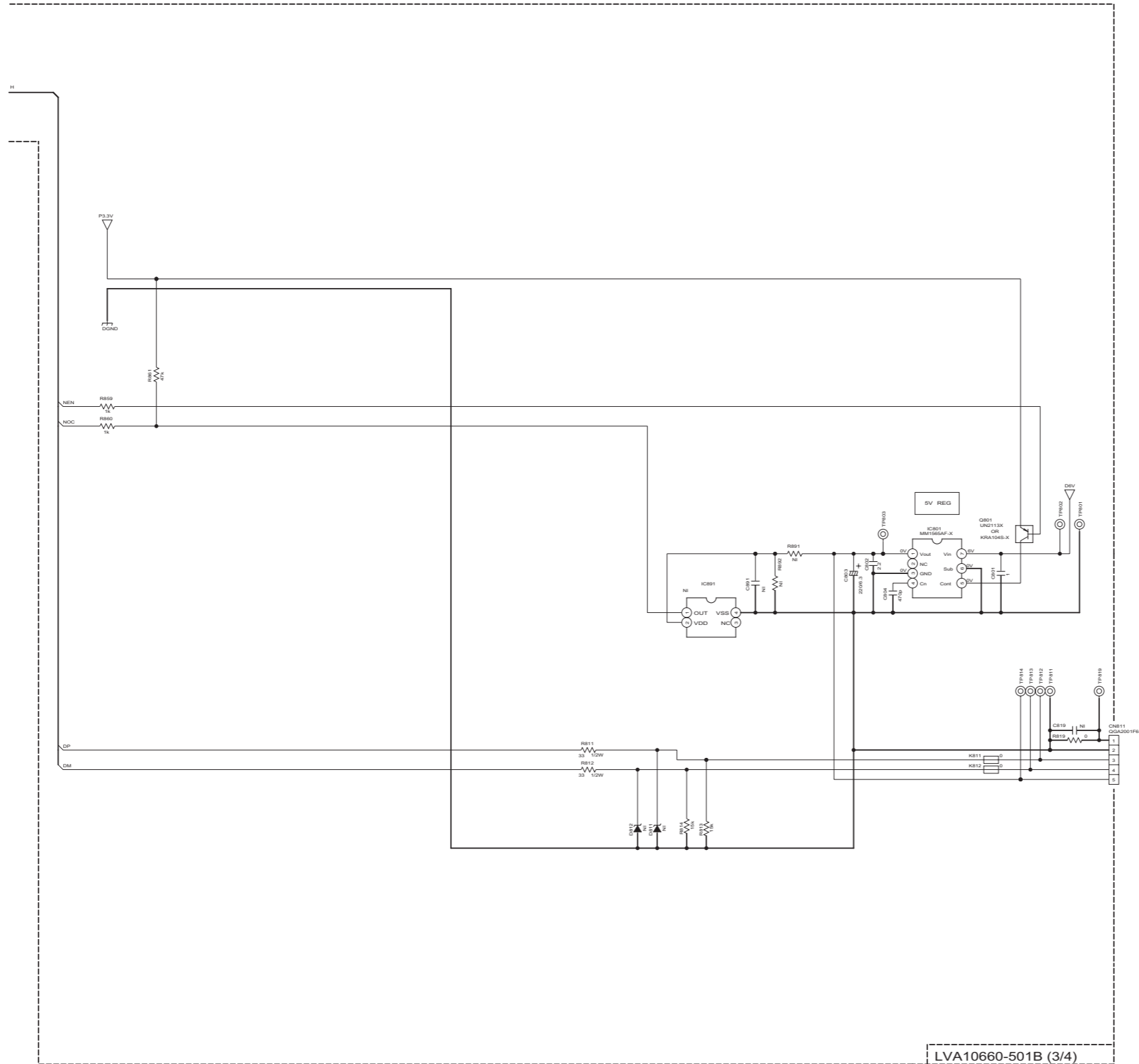
DVD control section (1/4)





- NOTES
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION — A DVD disc in the Tray 1, and STOP mode.
  - UNLESS OTHERWISE SPECIFIED.  
ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR, OR 0.5% METAL GLAZE RESISTOR.  
ALL CAPACITORS ARE 50V, 25V, 16V, 10V or 6.3V CERAMIC CAPACITOR.  
ALL RESISTANCE VALUES ARE IN OHM(Ω).  
ALL CAPACITANCE VALUES ARE IN uF(μF).  
ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (uF) RATED VOLTAGE (V).  
ALL INDUCTANCE VALUES ARE IN uH(μH).
  - NI STANDS FOR NOT INSERTED PARTS.



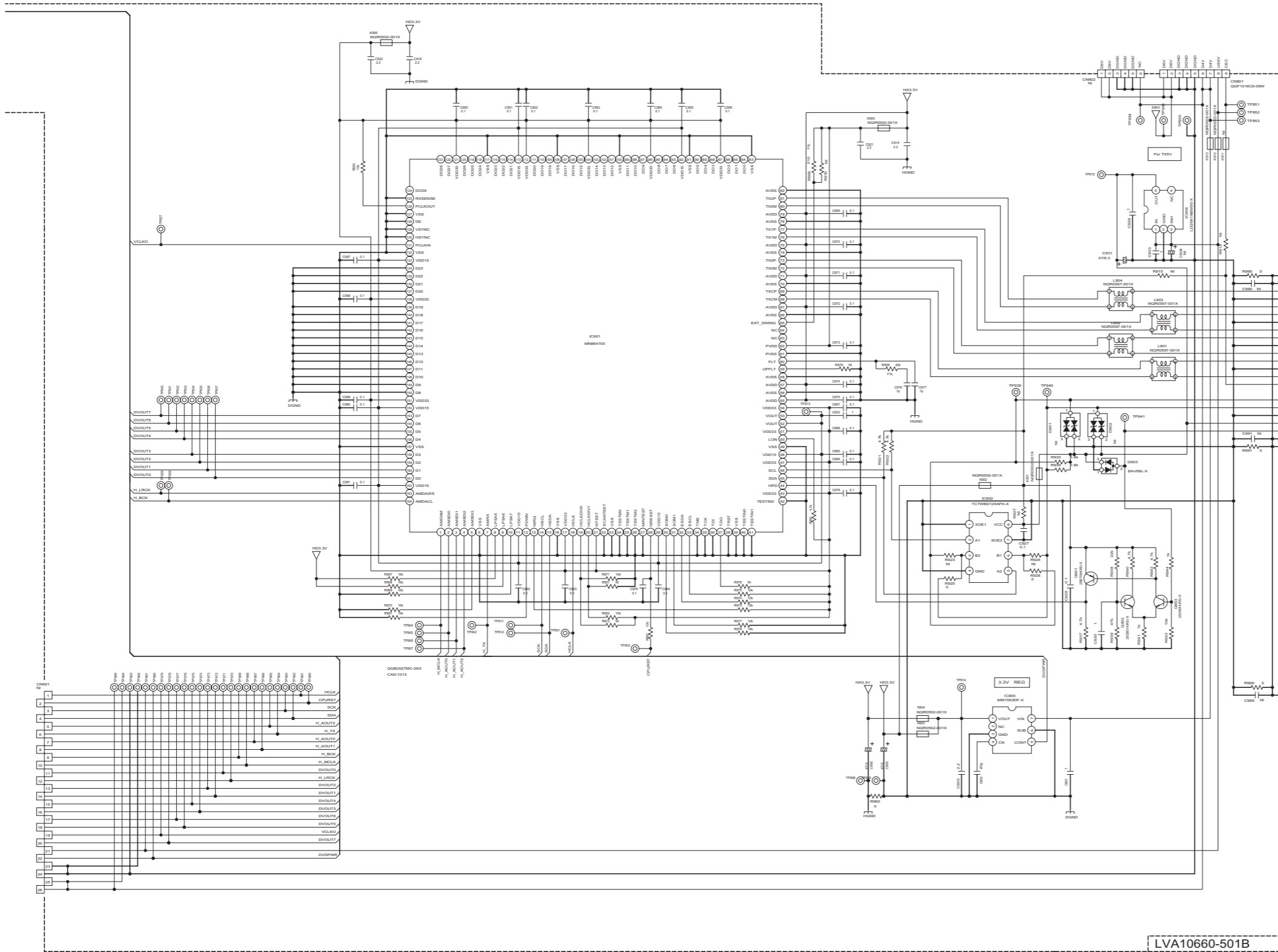
■ DVD control section (3/4)



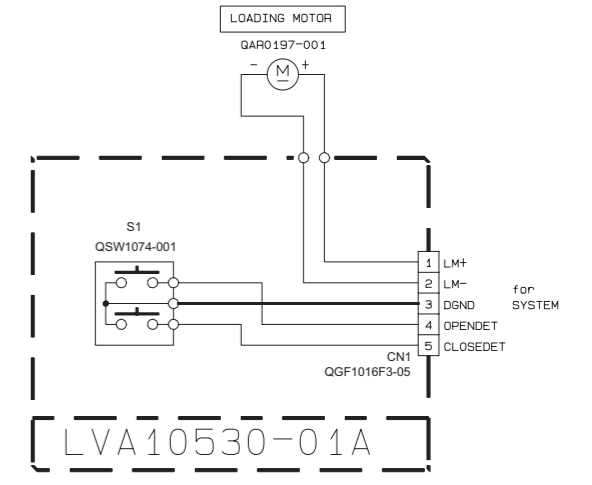
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.  
CONDITION --- A DVD disc in the Tray 1, and STOP mode .
2. UNLESS OTHERWISE SPECIFIED.  
ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR OR 0.5% METAL GLAZE RESISTOR.  
ALL CAPACITORS ARE 50V , 25V , 16V , 10V or 6.3V CERAMIC CAPACITOR .  
ALL RESISTANCE VALUES ARE IN OHM(Ω) .  
ALL CAPACITANCE VALUES ARE IN uF(p-pF).  
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (uF) /RATED VOLTAGE (V).  
ALL INDUCTANCE VALUES ARE IN uH(mmmH).
3. NI STANDS FOR NOT INSERTED PARTS.
4. DIGITAL TRANSISTOR  



■ DVD control section (4/4)



■ Loader section

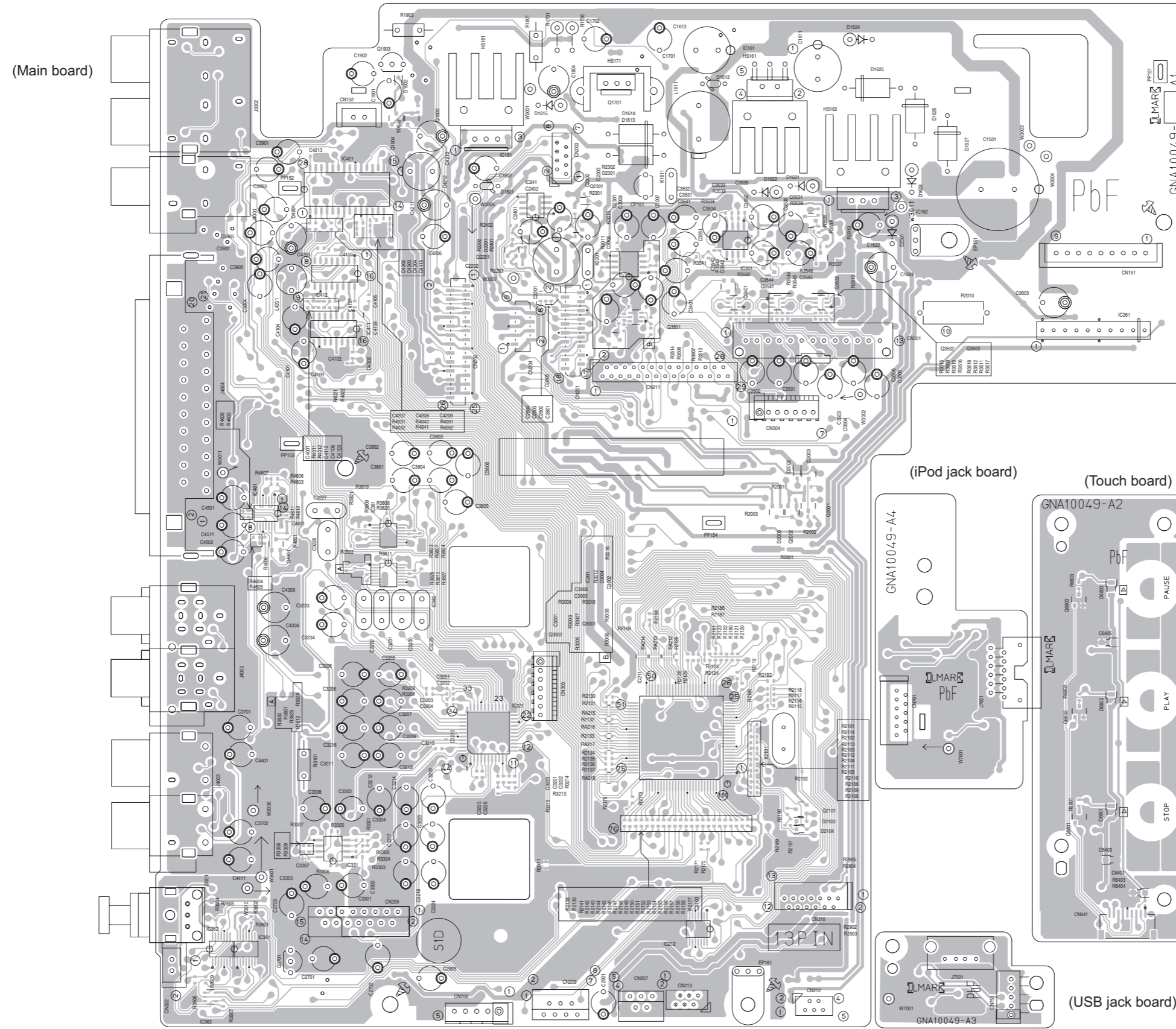


NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. CONDITION — A DVD disc in the Tray 1, and STOP mode.
- UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/16W ± 5% METAL GLAZE RESISTOR, OR 0.5% METAL GLAZE RESISTOR. ALL CAPACITORS ARE 50V, 25V, 16V, 10V or 6.3V CERAMIC CAPACITOR. ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITANCE VALUES ARE IN μF(μF). ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V). ALL INDUCTANCE VALUES ARE IN μH(μH).
- NI STANDS FOR NOT INSERTED PARTS.

# Printed circuit boards

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



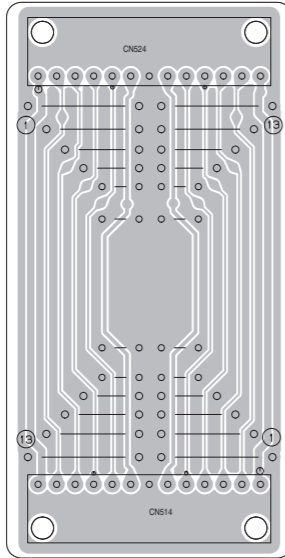


■ Power board

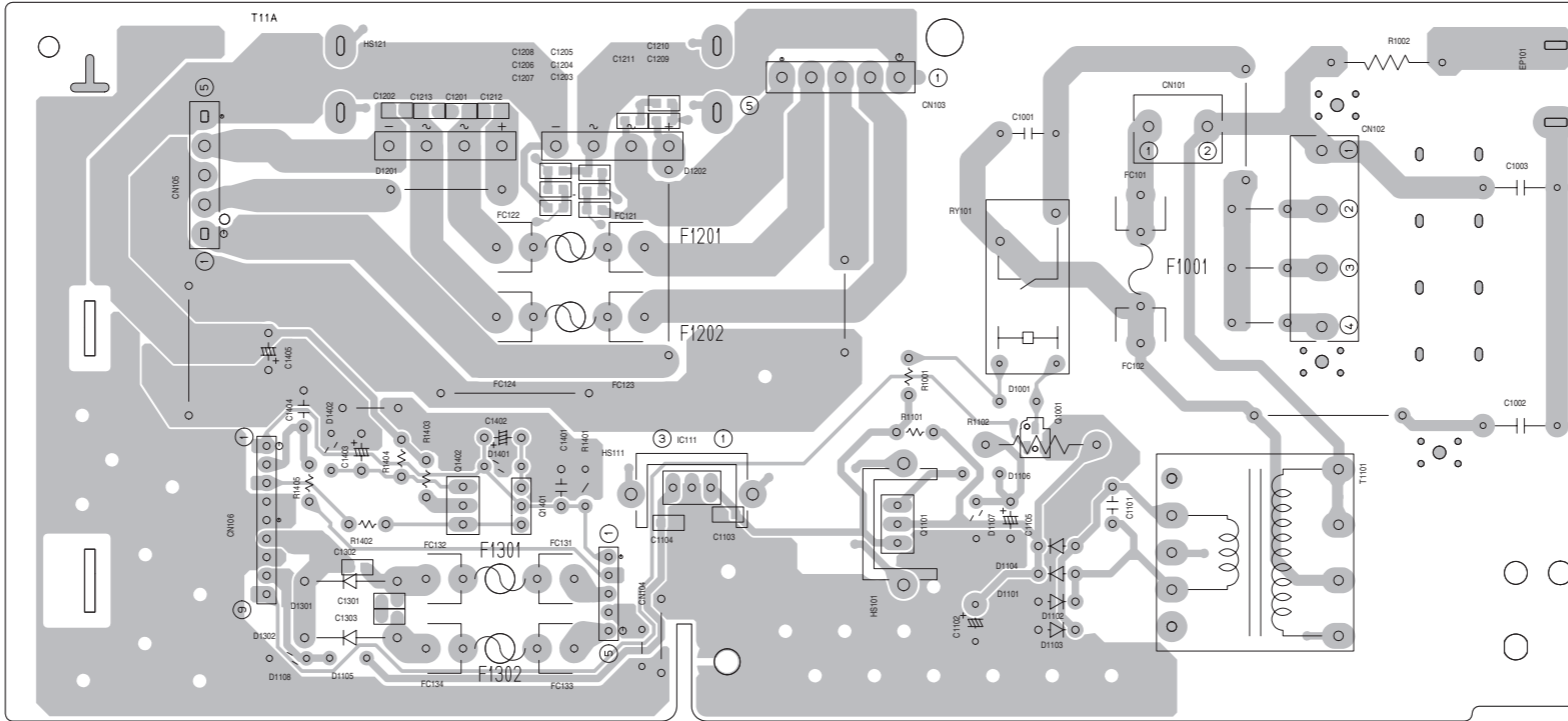
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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

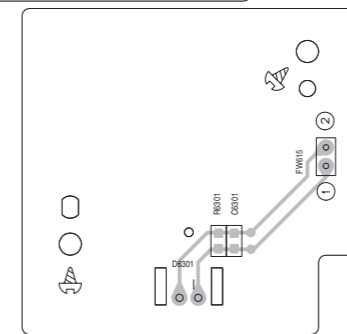
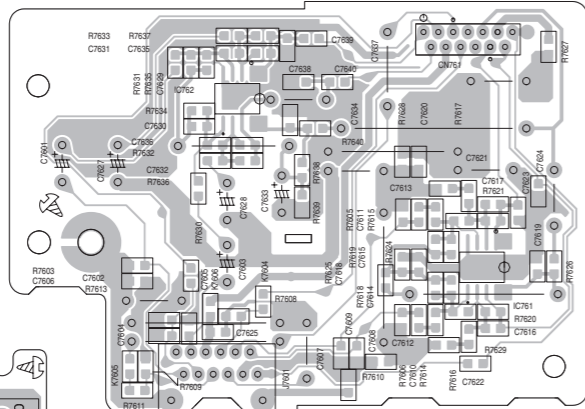
(Connection board)



(Power board)

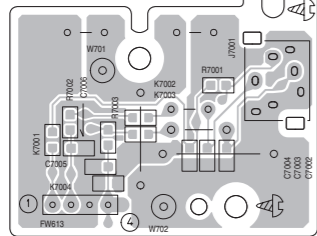


(iPod control board)

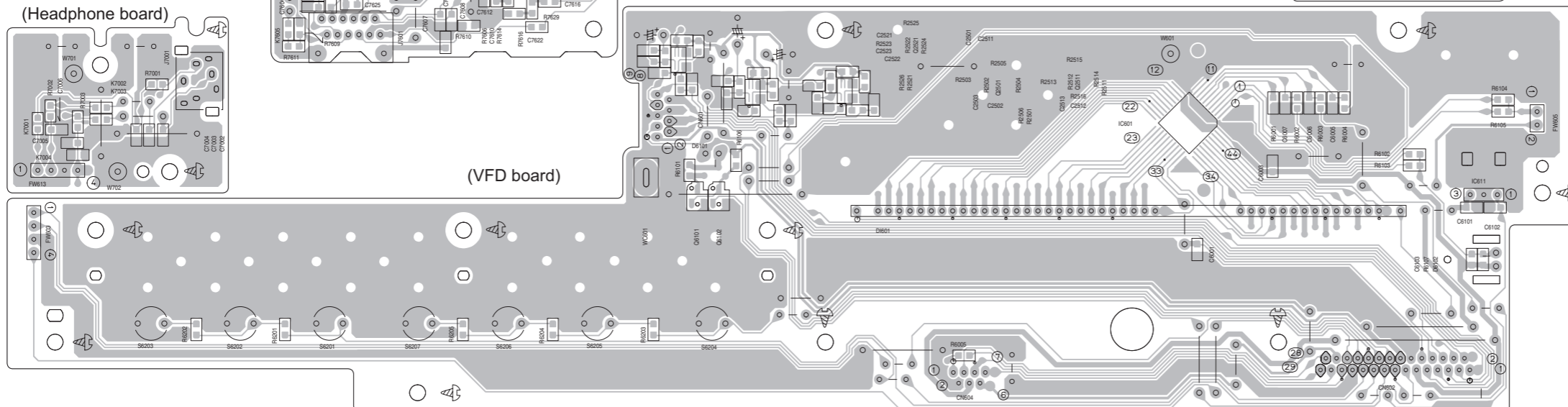


(LED board)

(Headphone board)



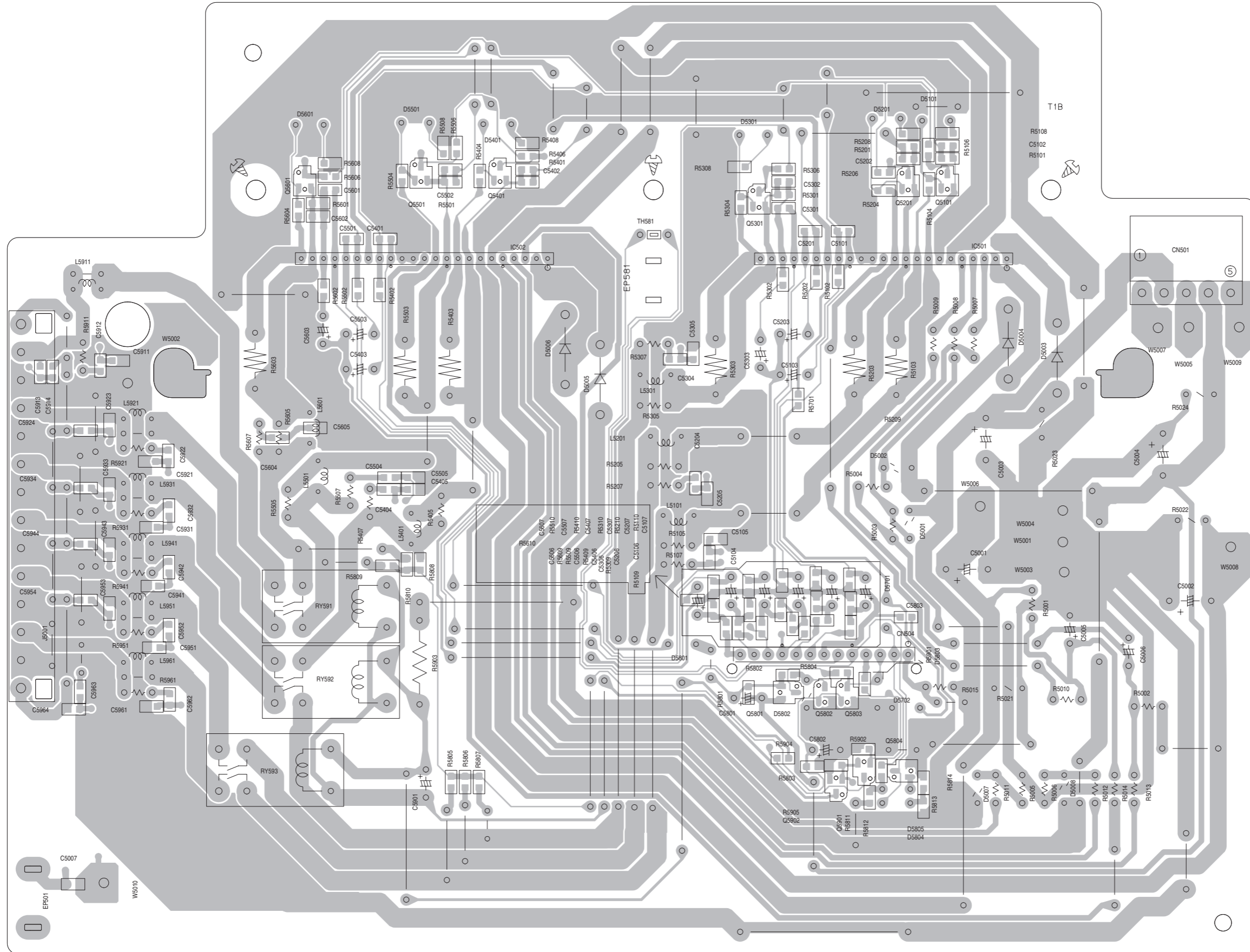
(VFD board)



■ 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)



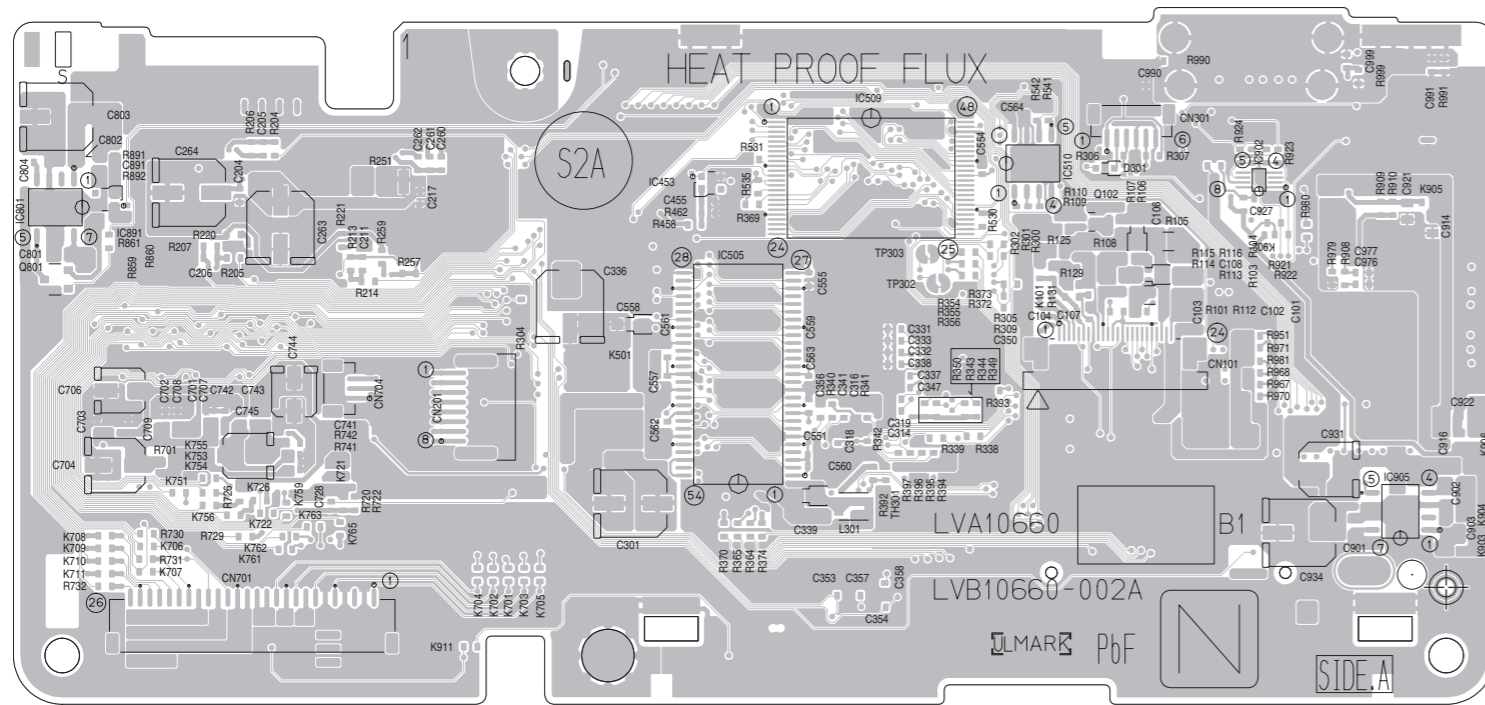


■ DVD board

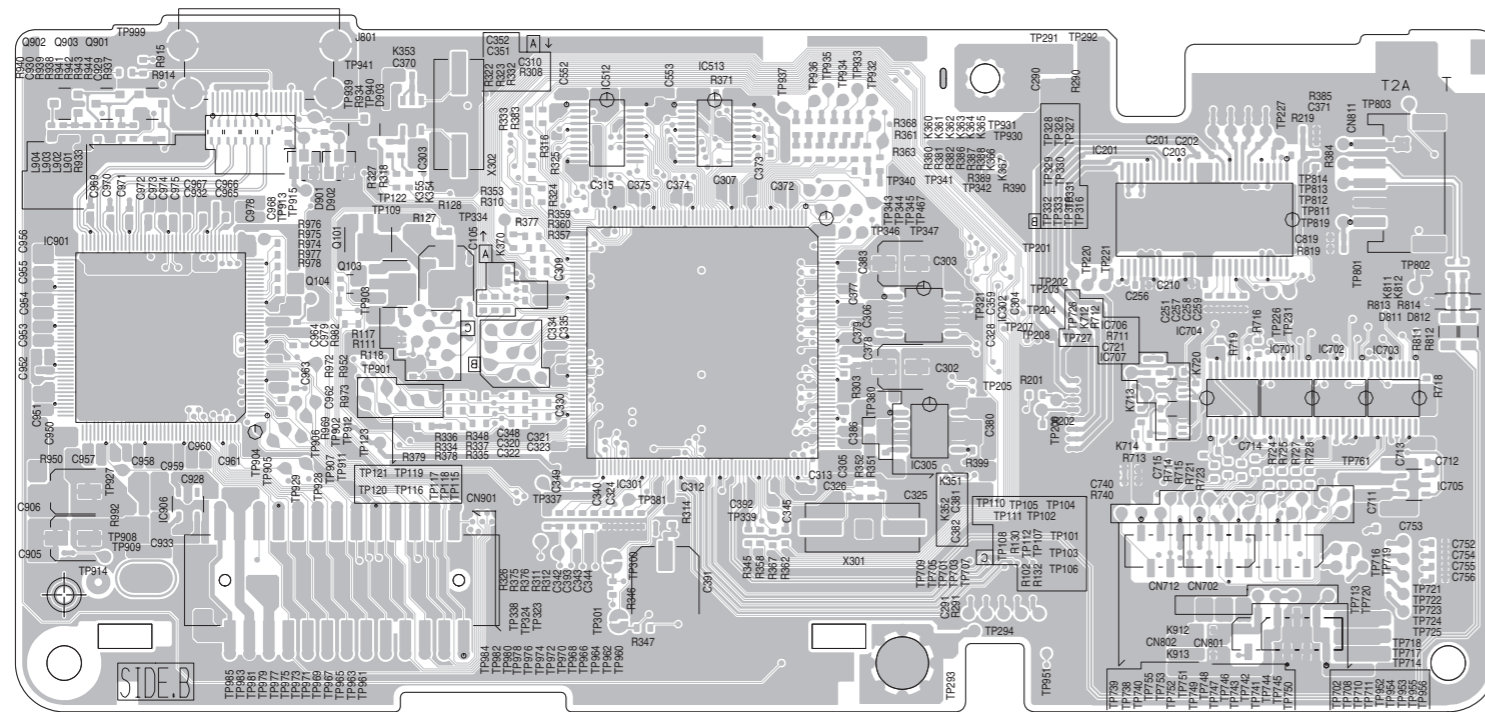
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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

forward side



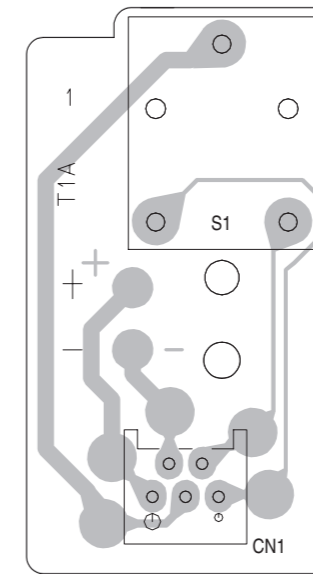
reverse side



■ 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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