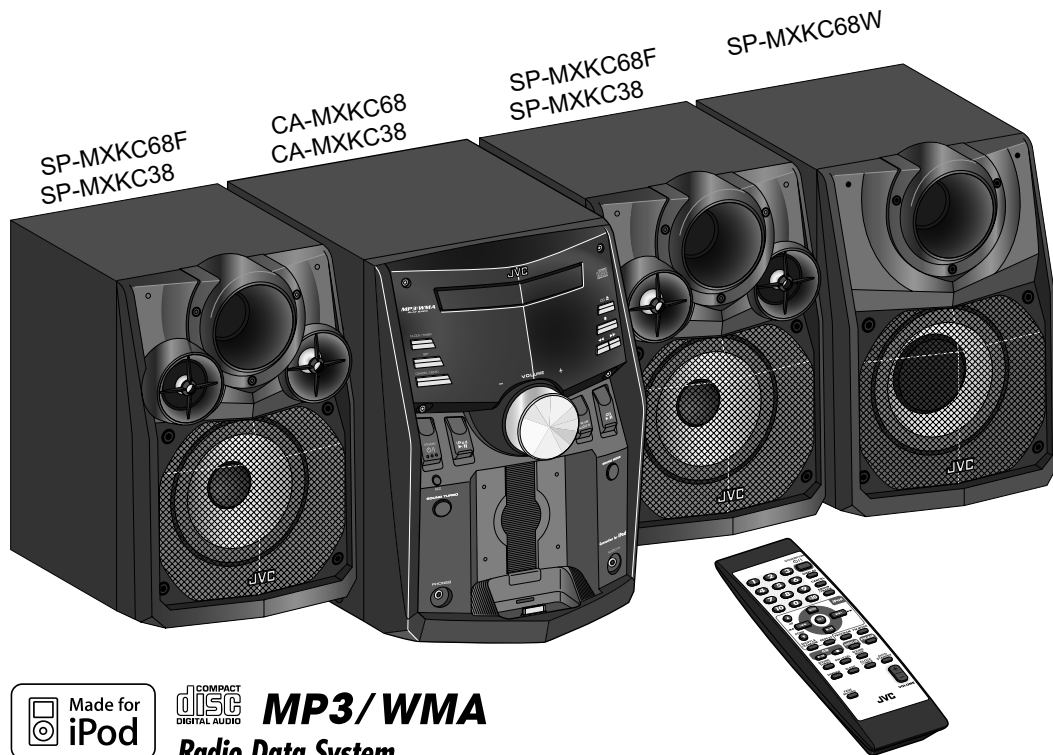


JVC

SERVICE MANUAL

COMPACT COMPONENT SYSTEM

**MX-KC68J, MX-KC68C, MX-KC68B, MX-KC68E,
MX-KC68EN, MX-KC68EV, MX-KC68A,
MX-KC68UJ, MX-KC68UW, MX-KC38J, MX-KC38C**



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

MX-KC68J/C/MX-KC38J/C

Amplifier section OUTPUT POWER		
Main speakers	110 W per channel min. RMS driven into 3Ω at 1 kHz with no more than 10% total harmonic distortion	
Speakers/Impedance	3Ω - 6 Ω	
Subwoofer (for MX-KC68)	180 W per channel min. RMS driven into 8 Ω at 63 Hz with no more than 10% total harmonic distortion	
Speakers/Impedance	8 Ω - 16 Ω	
Tuner section		
FM tuning range	87.5 MHz - 108.0 MHz	
AM tuning range	530 kHz - 1 710 kHz	
CD player section		
Dynamic range	90 dB	
Signal-to-noise ratio	85 dB	
Wow and flutter	Immeasurable	
Main speakers (MX-KC68/SP-MXKC38)		
Type	3-Way 3-Speaker Bass-Reflex Type	
Speaker units	Main Woofer	16 cm (6-5/16 inches) cone x 1
	Mid Range	5 cm (2 inches) cone x 1
	Tweeter	2 cm (13/16 inches) dome x 1
Power Handling Capacity	110 W	
Impedance	3 Ω	
Frequency Range	41 Hz - 35 kHz	
Sound Pressure Level	83 dB/W•m	
Dimensions (approx.)	210 mm x 315 mm x 220 mm (W/H/D)	
	(8-5/16 inches x 12-7/16 inches x 8-11/16 inches)	
Mass (approx.)	3.0 kg (6.7 lbs) each	
Subwoofer (MX-KC68)		
Type	1-Way Bass-Reflex Type	
Speaker	16 cm (6-5/16 inches) cone x 1	
Power Handling Capacity	180 W	
Impedance	8 Ω	
Frequency Range	38 Hz - 5 kHz	
Sound Pressure Level	83 dB/W•m	
Dimensions (approx.)	210 mm x 315 mm x 242 mm (W/H/D)	
	(8-5/16 inches x 12-7/16 inches x 9-9/16 inches)	
Mass (approx.)	3.4 kg (7.5 lbs)	
General		
Power requirements	AC 120 V , 60 Hz	
Audio input AUDIO IN	400 mV/47 kΩ	
Power supply to iPod	DC 5 V 500 mA	
Power consumption	95 W (MX-KC68) - power on	
	60 W (MX-KC38) - power on	
	9 W - standby mode, without charging iPod	
	0.9 W or less - save mode	
Dimensions (W x H x D)	215 mm x 307 mm x 309 mm	
	(8-1/2 inches x 12-1/8 inches x 12-3/16 inches)	
Mass (approx.)	3.8 kg (8.4 lbs) (MX-KC68)	
	3.6 kg (8.0 lbs) (MX-KC38)	

Specifications and appearance are subject to change without prior notice.

MX-KC68B/E/EN/EV

Amplifier section			
OUTPUT POWER	Main speakers	110 W per channel min. RMS driven into 3 Ω at 1 kHz with no more than 10% total harmonic distortion	
		Speakers/Impedance: 3 Ω - 6 Ω	
	Subwoofer	180 W min. RMS driven into 8 Ω at 63 Hz with no more than 10% total harmonic distortion	
		Speakers/Impedance: 8 Ω - 16 Ω	
Tuner section	FM tuning range	87.50 MHz - 108.00 MHz	
	AM tuning range	522 kHz - 1 629 kHz	
CD player section	Dynamic range	86 dB	
	Signal-to-noise ratio	85 dB	
	Wow and flutter	Immeasurable	
Speakers			
Main speakers (SP-MXKC68F)	Type	3-Way 3-Speaker Bass-Reflex Type	
	Speaker units	Main Woofer	16 cm cone x 1
		Mid Range	5 cm cone x 1
		Tweeter	2 cm dome x 1
	Power Handling Capacity	110 W	
	Impedance	3 Ω	
	Frequency Range	41 Hz - 35 kHz	
	Sound Pressure Level	83 dB/W•m	
	Dimensions (approx.)	210 mm x 315 mm x 220 mm (W/H/D)	
Mass (approx.)	3.0 kg each		
Subwoofer (SP-MXKC68W)	Type	1-Way Bass-Reflex Type	
	Speaker	16 cm cone x 1	
	Power Handling Capacity	180 W	
	Impedance	8 Ω	
	Frequency Range	38 Hz - 5 kHz	
	Sound Pressure Level	83 dB/W•m	
	Dimensions (approx.)	210 mm x 315 mm x 242 mm (W/H/D)	
Mass (approx.)	3.4 kg		
General			
Power requirements	AC 230 V , 50 Hz		
Audio input AUDIO IN	400 mV/47 kΩ		
Power supply to iPod	DC 5 V 500 mA		
Power consumption	95 W - power on		
	9 W - standby mode, without charging iPod		
	0.8 W or less - save mode		
Dimensions (W x H x D)	215 mm x 307 mm x 309 mm		
Mass (approx.)	3.8 kg		

Specifications and appearance are subject to change without prior notice.

MX-KC68A/UJ/UW

Amplifier section			
OUTPUT POWER	Main speakers	110 W per channel min. RMS driven into 3 Ω at 1 kHz with no more than 10% total harmonic distortion	
		Speakers/Impedance: 3 Ω - 6 Ω	
	Subwoofer	180 W per channel min. RMS driven into 8 Ω at 63 Hz with no more than 10% total harmonic distortion	
		Speakers/Impedance: 8 Ω - 16 Ω	
Tuner section			
FM tuning range		87.50 MHz - 108.00 MHz	
AM tuning range		531 kHz - 1 710 kHz (at 9 kHz intervals)	
		530 kHz - 1 710 kHz (at 10 kHz intervals)	
CD player section			
Dynamic range		86 dB	
Signal-to-noise ratio		85 dB	
Wow and flutter		Immeasurable	
Speakers			
Main speakers (SP-MXKC68F)	Type	3-Way 3-Speaker Bass-Reflex Type	
	Speaker units	Main Woofer	16 cm cone x 1
		Mid Range	5 cm cone x 1
		Tweeter	2 cm dome x 1
	Power Handling Capacity	110 W	
	Impedance	3 Ω	
	Frequency Range	41 Hz - 35 kHz	
	Sound Pressure Level	83 dB/W•m	
	Dimensions (approx.)	210 mm x 315 mm x 220 mm (W/H/D)	
Mass (approx.)	3.0 kg each		
Subwoofer (SP-MXKC68W)	Type	1-Way Bass-Reflex Type	
	Speaker	16 cm cone x 1	
	Power Handling Capacity	180 W	
	Impedance	8 Ω	
	Frequency Range	38 Hz - 5 kHz	
	Sound Pressure Level	83 dB/W•m	
	Dimensions (approx.)	210 mm x 315 mm x 242 mm (W/H/D)	
	Mass (approx.)	3.4 kg	
General			
Power requirements	For Australia	AC 240 V , 50 Hz	
	For other countries	AC 110 V-127 V/AC 220 V-240 V adjustable with the voltage selector 50 Hz/60 Hz	
Audio input AUDIO IN		400 mV/47 kΩ	
Power supply to iPod		DC 5 V 500 mA	
Power consumption		95 W - power on	
		9 W - standby mode, without charging iPod	
		0.8 W or less - save mode	
Dimensions (W x H x D)		215 mm x 307 mm x 309 mm	
Mass (approx.)		3.8 kg	

Specifications and appearance are subject to change without prior notice.

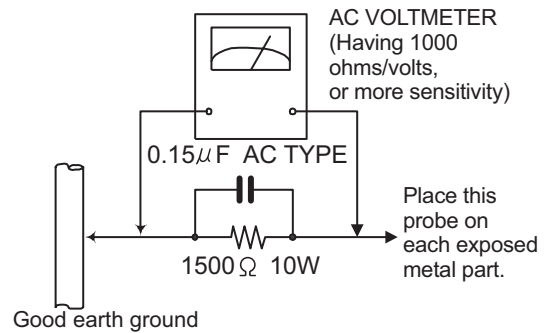
SECTION 1 PRECAUTION

1.1 Safety Precautions

- (1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- (4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
- (5) Leakage shock hazard testing
After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.
 - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal 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 Ω per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC

voltmeter.

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



1.2 Warning

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

1.3 Caution

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

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

1.4 Critical parts for safety

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

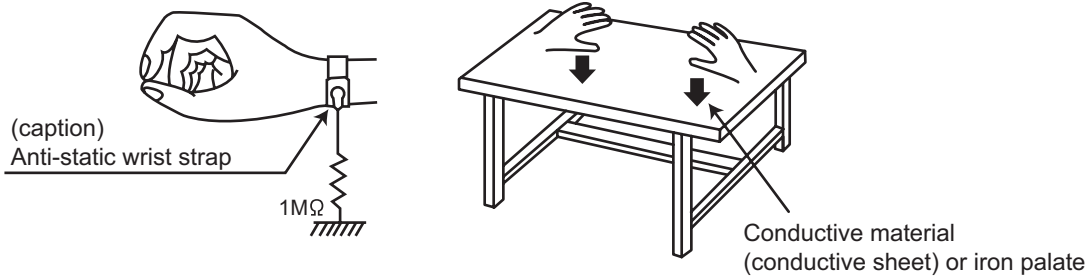
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products. Be careful to use proper grounding in the area where repairs are being performed.

(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.

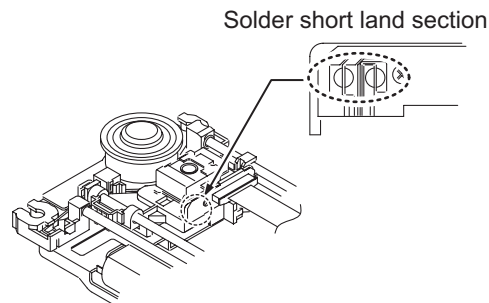
1.6 Handling the traverse unit (optical pickup)

- (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 näkyvalle ja/tai näkymättömälle luokan 1M lasersäteilylle. Älä tarkastele sitä optisen laitteen läpi.

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

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

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

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

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



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

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

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

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

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

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

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

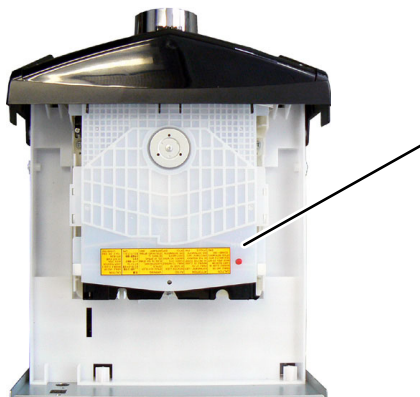
注意：打开盖板可能会产生可见或不可见的 1M 级辐射。不要使用光学仪器直接进行窥视。

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

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

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

REPRODUCTION AND POSITION OF LABELS and PRINT WARNING LABEL and PRINT



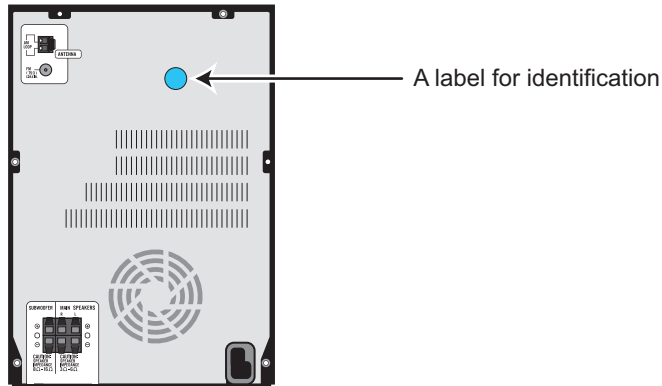
CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC30025-1:2001 (ENG)	ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	AVISO RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	WARNING SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	注意 ここに書くと可視 及び/または不可視 のクラス1M レーザー放射が 出ます。 光学顕微鏡で直接 覗かないでください。 LPN	CAUTION VISIBLE AND/OR INVISIBLE CLASS I LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG) LV4403-003A
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SECTION 2 SPECIFIC SERVICE INSTRUCTIONS

New CD mechanism was added.

In a model using new CD mechanism for, it stick a blue label for identification on the back side.

When it repair the CD mechanism of an article sticking this label on, please use a parts list of FMU-VK1-2M.



SECTION 3 DISASSEMBLY

3.1 Main body (Used figure are MX-KC68J)

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

- (1) Remove the six screws **A** attaching the Metal cover. (See Fig.1)
- (2) Remove the four screws **B** attaching the both side of the Metal cover. (See Fig.2)

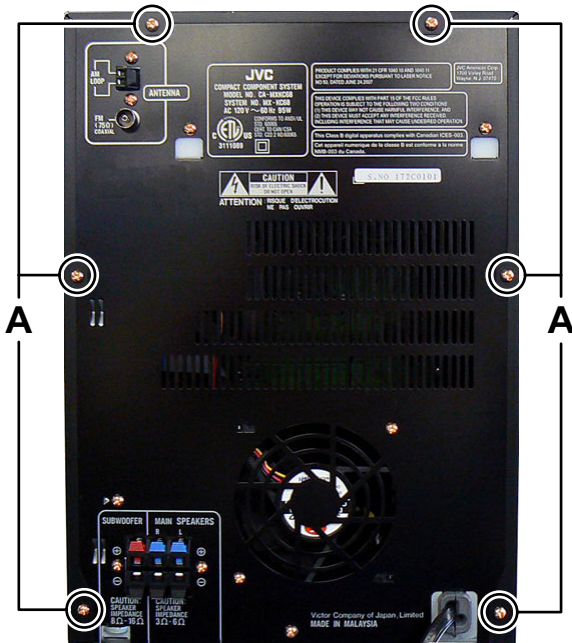


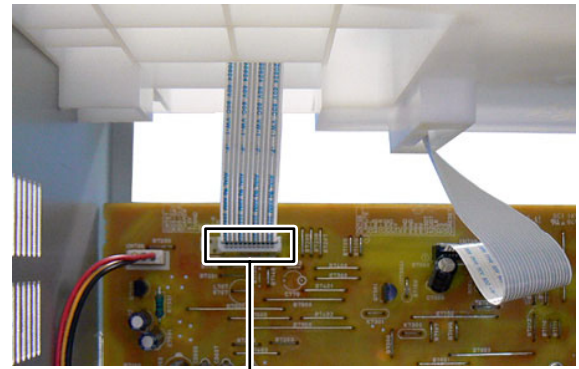
Fig.1



Fig.2

3.1.2 Removing the Tuner pack (See Fig.3, 4)

- (1) Disconnect the card wire from Tuner pack connected to connector [CN707](#) of the Micom board. (See Fig.3)
- (2) Remove the two screws **C** attaching the Tuner pack. (See Fig.4)



CN707

Fig.3

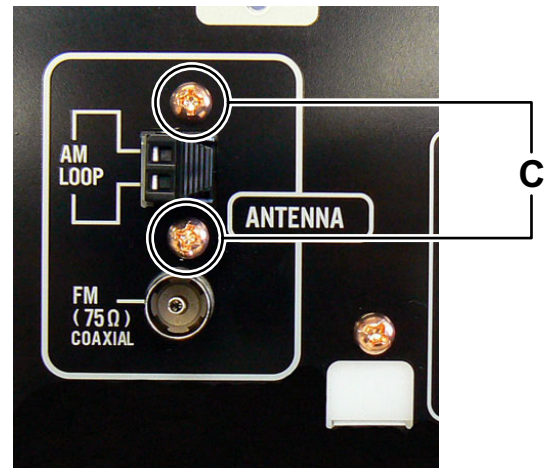
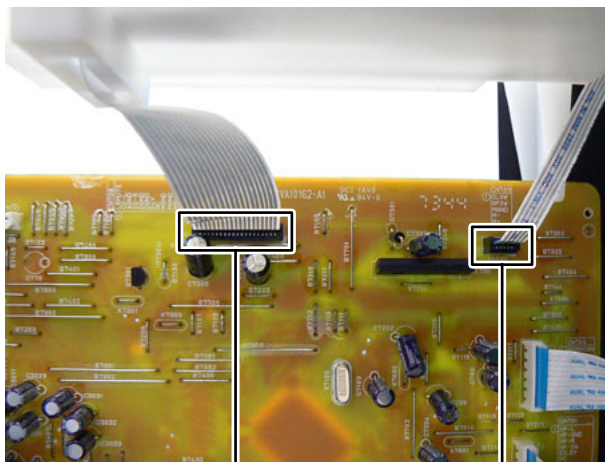


Fig.4

3.1.3 Removing the CD mechanism (See Fig.5, 6)

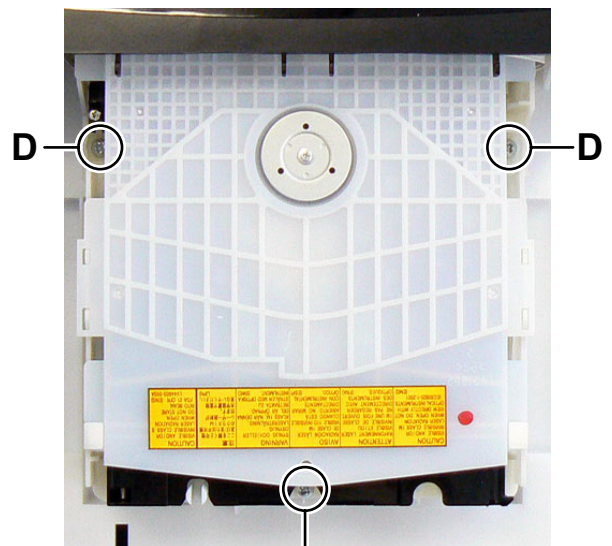
- (1) Disconnect the card wire from CD mechanism connected to connector [CN708](#) of the Micom board. (See Fig.5)
- (2) Disconnect the card wire from Loader board connected to connector [CN709](#) of the Micom board. (See fig.5)
- (3) Remove the three screws **D** attaching the CD mechanism. (See Fig.6)



CN708

CN709

Fig.5



D

Fig.6

3.1.4 Removing the CD chassis (See Fig.7, 8)

- (1) Remove the two screws **E** attaching the both side of the Front panel. (See Fig.7)
- (2) Remove the two screws **F** attaching the CD chassis. (See Fig.8)

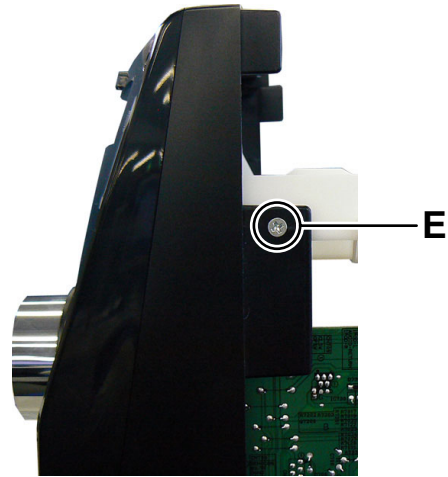


Fig.7

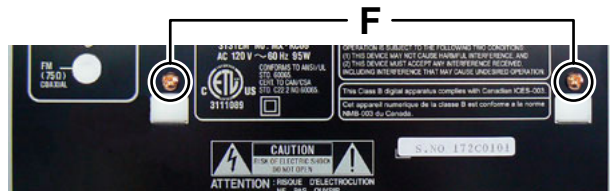


Fig.8

3.1.5 Removing the Front panel (See Fig.9 to 11)

- (1) Disconnect the card wire from FL board connected to connector [CN700](#) of the Micom board. (See Fig.9)
- (2) Disconnect the card wire from Volume board connected to connector [CN701](#) of the Micom board. (See Fig.9)
- (3) Disconnect the connector wire from iPod jack board connected to connector [CN702](#) of the Micom board. (See Fig.9)
- (4) Disconnect the flat cable wire from Audio input board connected to connector [CN705](#) of the Micom board. (See Fig.9)
- (5) Remove the three screws **G** attaching the Front panel. (See Fig.10)
- (6) Disengage two hooks **a** engaged both side of the Front panel. (See Fig.11)

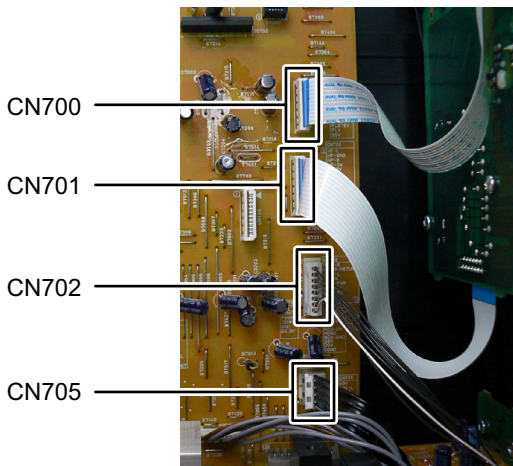


Fig.9

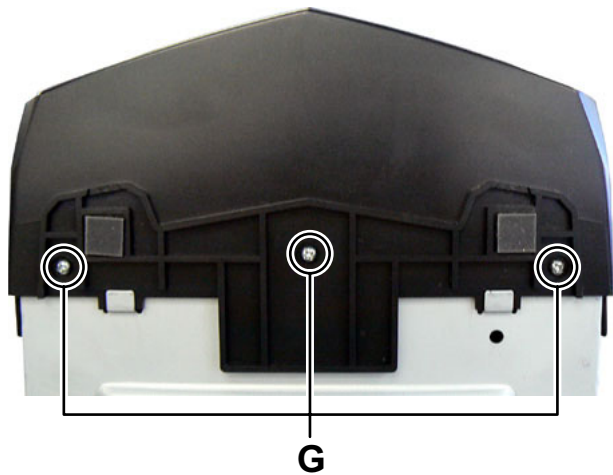


Fig.10

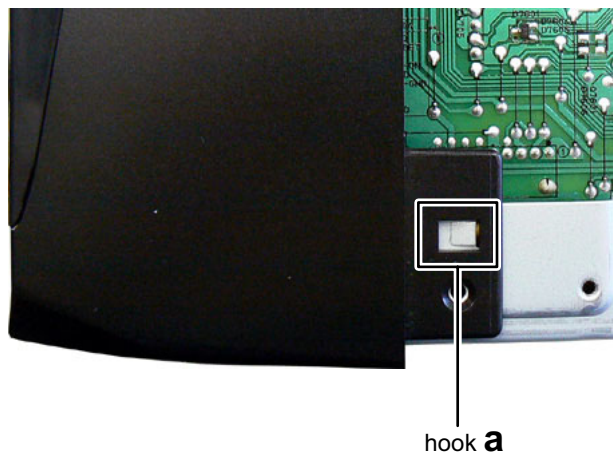


Fig.11

3.1.6 Removing the Rear panel (See Fig.12, 13)

- (1) Disconnect the connector wire from Fan connected to connector **CN706** of the Micom board. (See Fig.12)
- (2) Remove the four screws **H** attaching the Rear panel. (See Fig.13)

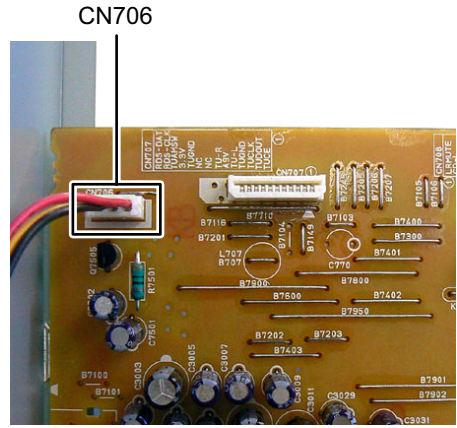


Fig.12

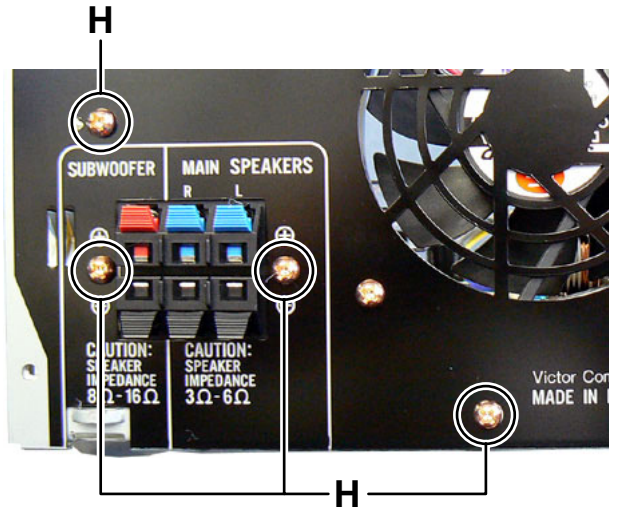


Fig.13

3.1.7 Removing the Micom board (See Fig.14, 15)

- (1) Remove the one screw **J** attaching the Micom board. (See Fig.14)
- (2) Disconnect the connector wire from Micom board connected to connector **CN3** of the Power supply unit. (See Fig.15)
- (3) Disconnect the board to board connectors connected to connectors **CN501** and **CN502** of the Power amp board. (See Fig.15)

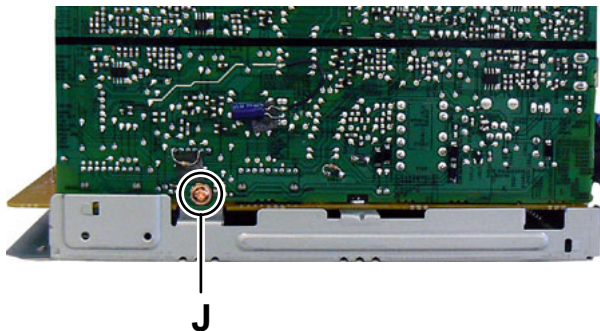


Fig.14

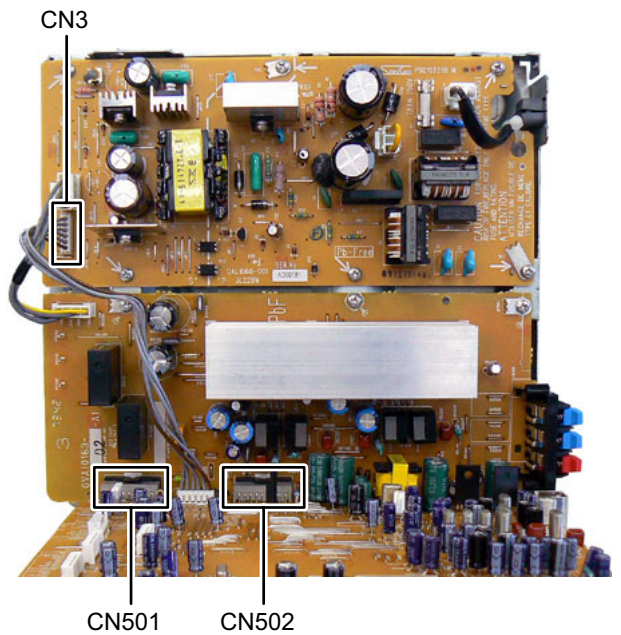


Fig.15

3.1.8 Removing the Power supply unit (See Fig.16)

- (1) Disconnect the Power cord connected to connector [CN1](#) of the Power supply unit.
- (2) Disconnect the connector wire from Power amp board connected to connector [CN2](#) of the Power supply unit.
- (3) Remove the six screws **K** attaching the Power supply unit.

3.1.9 Removing the Power amp board (See Fig.16)

- (1) Remove the four screws **L** attaching the Power amp board.

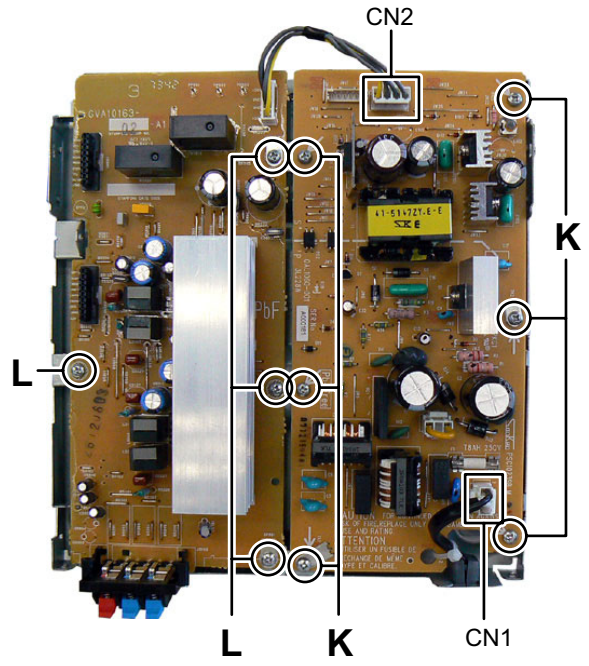


Fig.16

3.1.10 Removing the FL board (See Fig.17)

- (1) Remove the four screws **M** attaching the FL board.

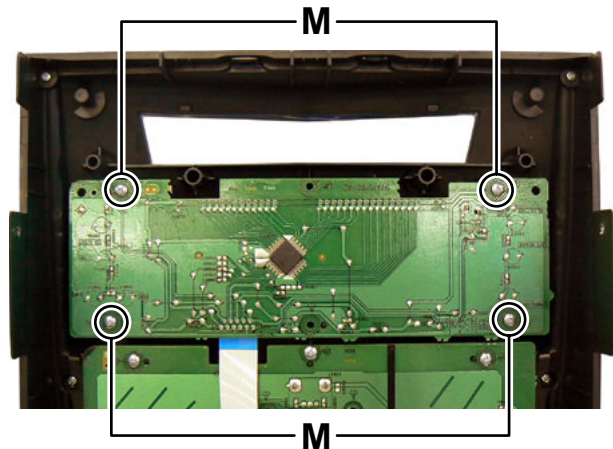


Fig.17

3.1.11 Removing the Volume board (See Fig.18)

- (1) Remove the volume knob.
- (2) Disconnect the flat cable wire connected to connector [CN951](#) of the Headphone jack board.
- (3) Remove the seven screws **N** attaching the Volume board.

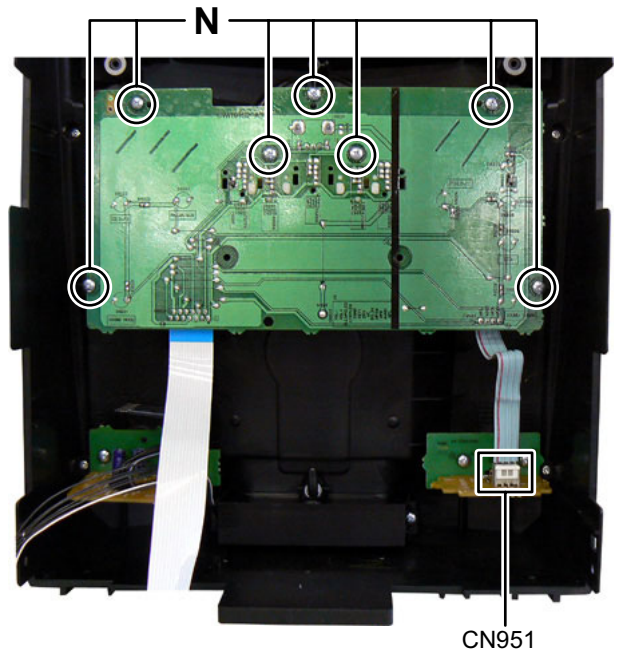


Fig.18

3.1.12 Removing the Audio input board (See Fig.19)

- (1) Remove the two screws **P** attaching the Audio input board.

3.1.13 Removing the Headphone jack board (See Fig.19)

- (1) Remove the two screws **Q** attaching the Headphone jack board.

3.1.14 Removing the iPod jack board (See Fig.19, 20)

- (1) Remove the three screws **R** attaching the iPod holder. (See Fig.20)
- (2) Remove the three screws **S** attaching the iPod jack board. (See Fig.20)

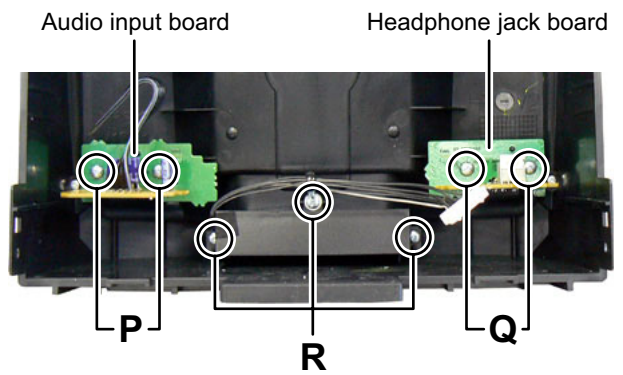


Fig.19

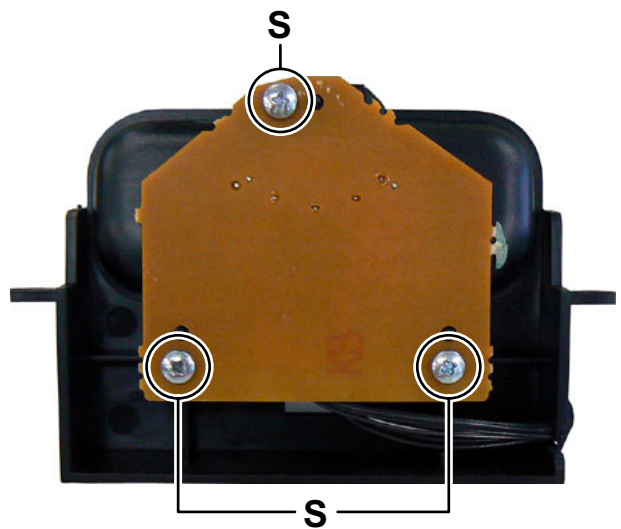


Fig.20

3.2 CD mechanism assembly

- Remove the CD mechanism assembly from main body.

3.2.1 Removing the CD cover

(See Fig.1)

- (1) Remove the two screws **A** attaching the CD cover from bottom side of CD mechanism assembly.
- (2) Lift up the CD cover from disengage boss **a** of the CD mechanism assembly.
- (3) Slide the CD cover to direction of the arrow and remove the CD cover from fixing part of **b**.
- (4) Remove the CD cover.

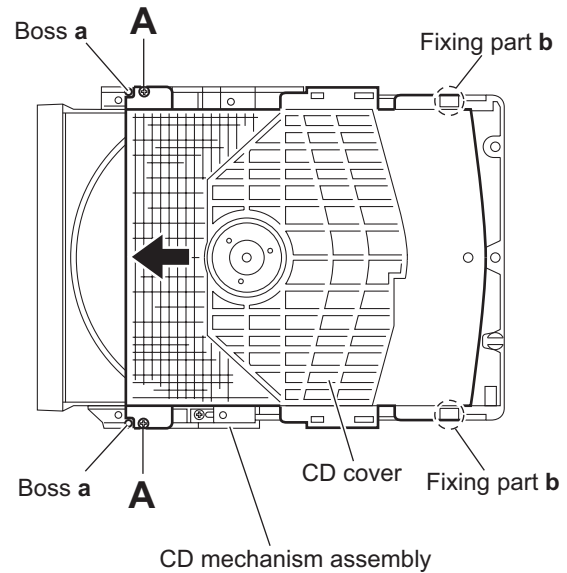


Fig.1

3.2.2 Removing the tray assembly

(See Fig.2 and 3)

- Remove the CD cover.
- (1) Press slide cam and pull out the tray assembly to direction of the arrow from right side of CD mechanism assembly. (See Fig.2)
 - (2) Remove the two screws **B** attaching the tray assembly from upper side of CD mechanism. (See Fig.3)
 - (3) Remove the bussing of the tray assembly from boss **c** of the CD mechanism assembly and remove the tray assembly. (See Fig.3)

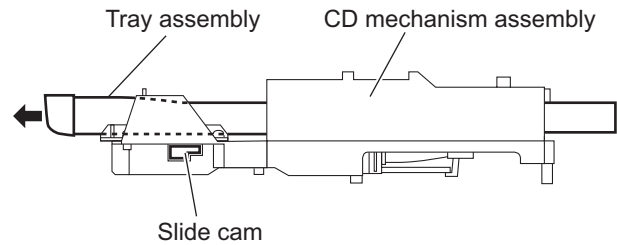


Fig.2

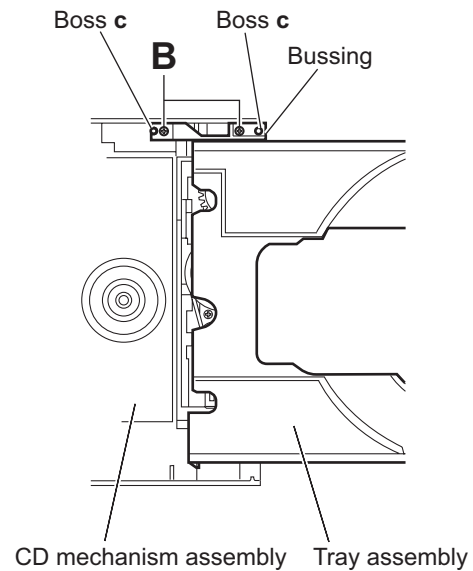


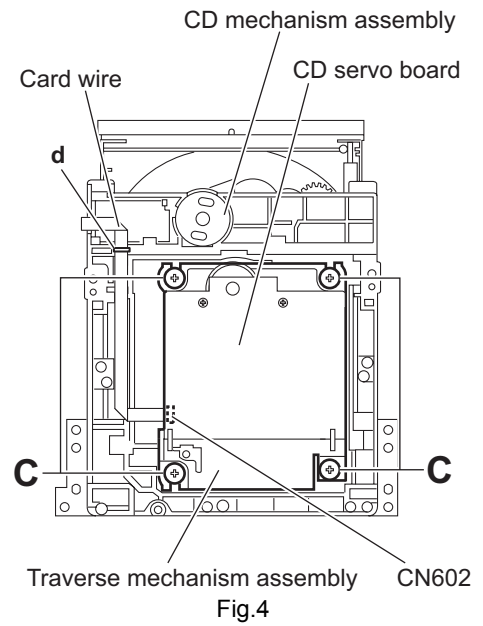
Fig.3

3.2.3 Removing the traverse mechanism assembly (See Fig.4)

- (1) Remove the four screws **C** attaching the traverse mechanism assembly from bottom side of CD mechanism assembly.
- (2) Disconnect the card wire from connector **CN602** of the CD servo board and then take out the traverse mechanism assembly and CD servo board together.

Reference:

When reattaching the traverse mechanism assembly, the card wire should through the part **d**.

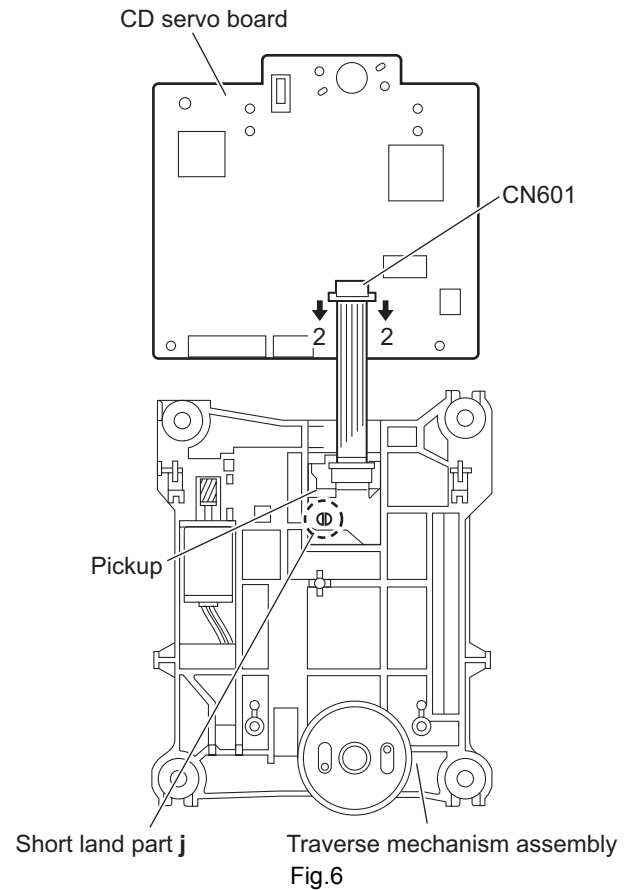
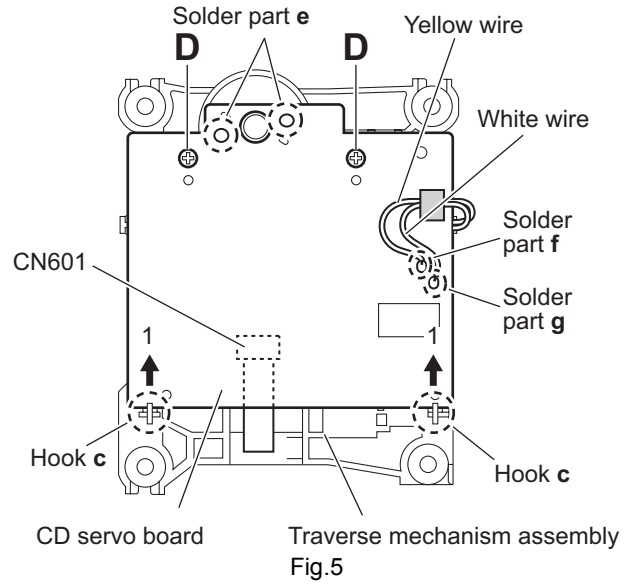


3.2.4 Removing the CD servo board (See Fig.5 and 6)

- Remove the traverse mechanism assembly.
 - (1) Remove the two screws **D** attaching the CD servo board from bottom side of traverse mechanism assembly. (See Fig.5)
 - (2) Remove the solder from solder part **e** of the CD servo board. (See Fig.5)
 - (3) Remove the yellow wire from solder part **f** of the CD servo board. (See Fig.5)
 - (4) Remove the white wire from solder part **g** of the CD servo board. (See Fig.5)
 - (5) Remove the CD servo board to upper side, disengage the hook **c** to direction of the arrow 1 then turn over the CD servo board. (See Fig.5)
 - (6) Solder to short land part **j** of pickup. (See Fig.6)
 - (7) Release the lock of connector **CN601** to direction of the arrow 2 and disengage the card wire. (See Fig.6)

Caution:

- Solder to short land part **j** of the pickup then disconnect the card wire from connector **CN601** of the CD servo board. If disconnect the card wire before soldering, pickup is make sure destroyed by static electricity. (See Fig.6)
- When reattaching the CD servo board, connect the card wire to connector **CN601** and then remove the solder of short land part **j** of the pickup.



3.2.5 Removing the pickup (See Fig.7 to 9)

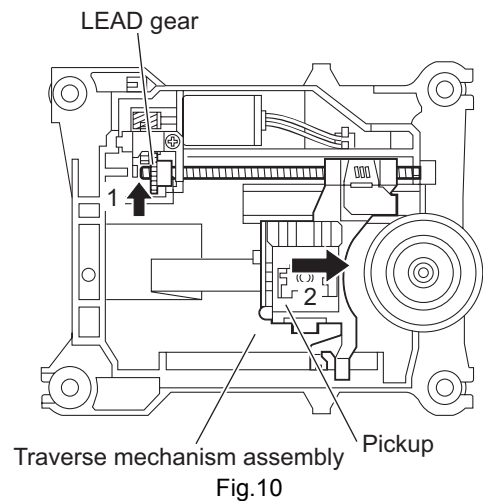
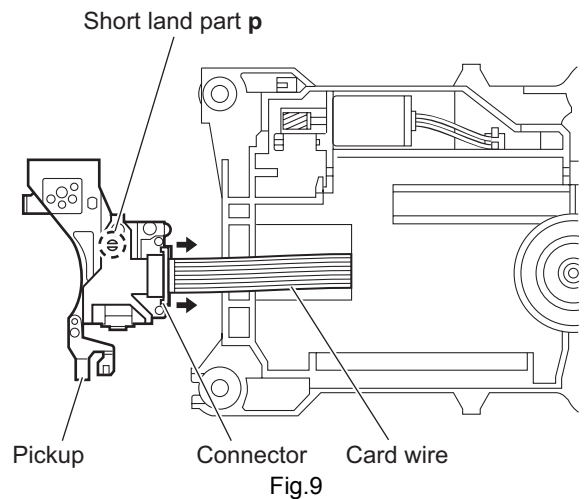
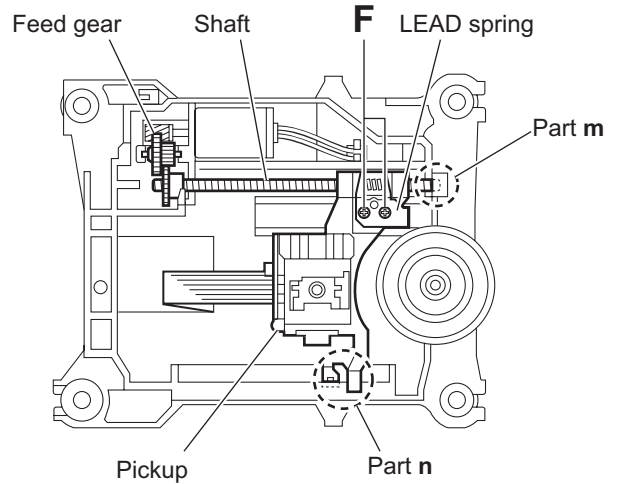
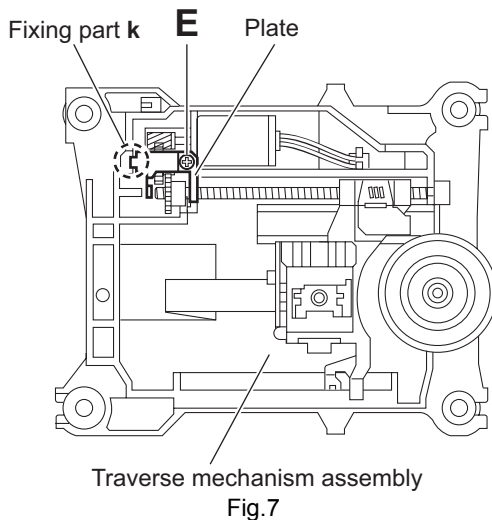
- Remove the traverse mechanism assembly.
 - (1) Remove the one screw **E** attaching the plate from upper side of traverse mechanism assembly. (See Fig.7)
 - (2) Remove the plate from fixing part **k** then take out the plate. (See Fig.7)
 - (3) Remove the two screws **F** attaching the LEAD spring and then take out the LEAD spring. (See Fig.8)
 - (4) Take out the feed gear, and then remove the shaft of pickup from part **m** of the traverse mechanism assembly. (See Fig.8)
 - (5) Remove the pickup from part **n** of the traverse mechanism assembly and then take out pickup with shaft. (See Fig.8)
 - (6) Release the shaft from pickup. (See Fig.8)
 - (7) Solder the short land part **p** of the pickup. (See Fig.9)
 - (8) Release the lock of the connector to direction of the arrow, and then disconnect the card wire. (See Fig.9)

Caution:

- Solder to short land part **p** of the pickup then disconnect the card wire from connector. If disconnect the card wire before soldering, pickup is make sure destroyed by static electricity. (See Fig.9)
- When reattaching the pickup, connect the card wire to connector and then remove the solder from short land part **p**. (See Fig.9)

3.2.6 Attaching the pickup (See Fig.7 to 10)

- Please refer the "Removing the pickup".
 - (1) Connect the card wire to connector of pickup, and then remove the solder from short land part **p** of the pickup. (See Fig.9)
 - (2) Attach the shaft to pickup. (See Fig.8)
 - (3) Fit the pickup to part **n** of the traverse mechanism and then attach the end of the shaft to part **k**. (See Fig.8)
 - (4) Attach the LEAD spring and feed gear. (See Fig.8)
 - (5) Attach the plate. (See Fig. 7)
 - (6) One turn the LEAD gear to direction of the arrow 1 and fully shift to direction of the arrow 2. (See Fig.10)

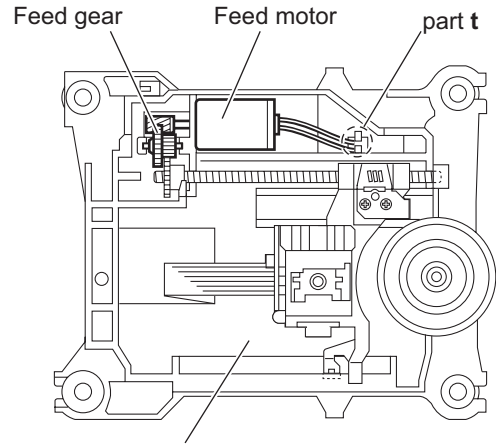


3.2.7 Removing the feed motor (See Fig.11 to 13)

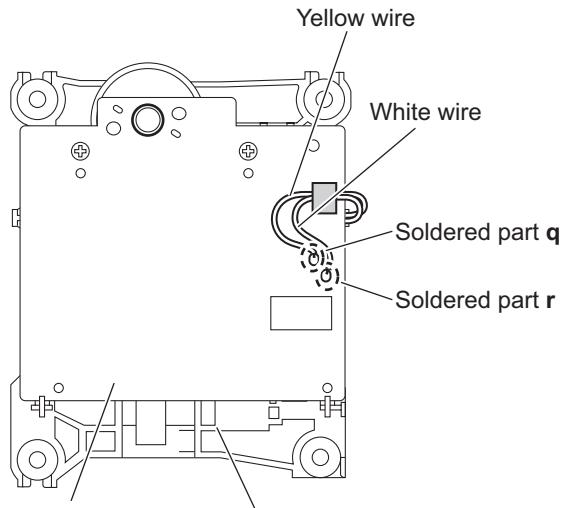
- Remove the traverse mechanism.
 - (1) Remove the yellow wire from solder part **q** of the CD servo board from upper side of traverse mechanism. (See Fig.11)
 - (2) Remove the white wire from solder part **r** of the CD servo board. (See Fig.11)
 - (3) Remove the one screw **G** attaching the plate. (See Fig.12)
 - (4) Disengage the plate from fixing part **s** and take out the plate. (See Fig.12)
 - (5) Remove the feed gear and take out the feed motor. (See Fig.13)

Reference:

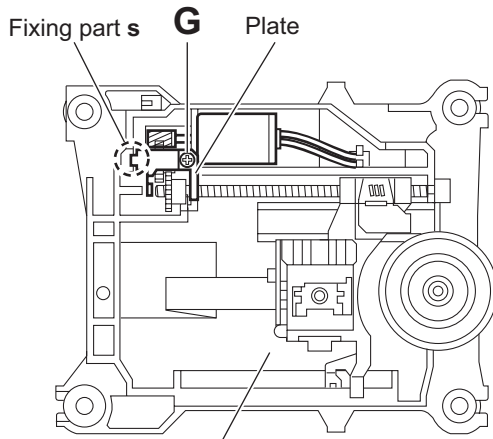
When attaching the feed motor, the wire has to through the part **t** of the traverse mechanism assembly. (See Fig.13)



Traverse mechanism assembly
Fig.13



CD servo board Traverse mechanism assembly
Fig.11



Traverse mechanism assembly
Fig.12

3.2.8 Removing the switch board (See Fig.14)

- (1) Disconnect the card wire from **CN1** of the switch board from bottom side of CD mechanism assembly.
- (2) Remove the wire from solder part **u** of the switch board.
- (3) Remove the one screw **H** attaching the switch board to CD mechanism assembly.
- (4) Lift up the switch board by pushing the hook **v** of CD mechanism assembly and take out it from part **w**.

Reference:

- After attach the switch board to CD mechanism assembly, wire hooked to part **x**.
- Hook **u** of the CD mechanism assembly, it have to bond lock.

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

- Remove the tray assembly.
 - (1) Remove the wire from solder part **u** of the switch board from bottom side of CD mechanism assembly.
 - (2) Remove the belt of motor pulley from upper side of CD mechanism assembly. (See Fig.15)

Caution:

Belt should not apply grease.

- (3) Remove the two screws **J** attaching the motor to CD mechanism assembly and take out the motor from bottom side of CD mechanism assembly. (See Fig.15)

Reference:

After motor attached to CD mechanism assembly, wire should hook to part **w**. (See Fig.14)

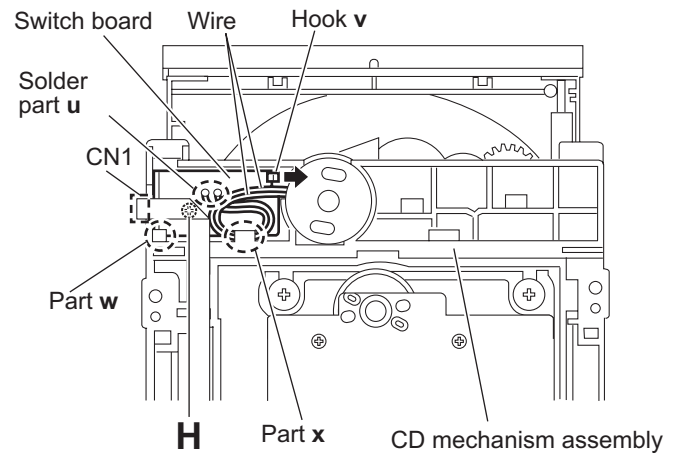


Fig.14

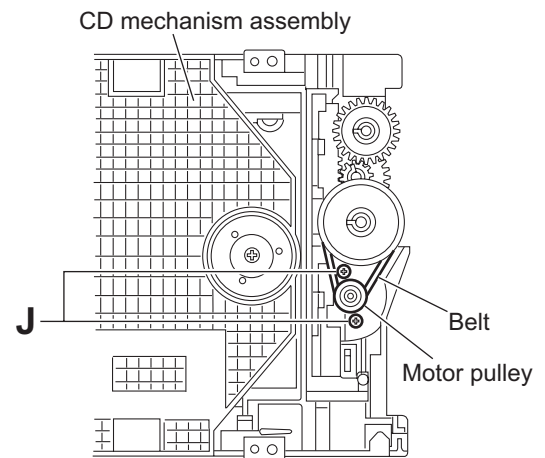
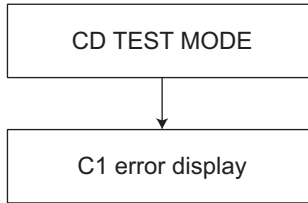


Fig.15

SECTION 4 ADJUSTMENT

4.1 Outline



4.2 How to go CD TEST MODE

[SET] + [POWER] + AC in

4.3 Function specification

Function	Key	Operation	FL display						
CD TEST MODE			C	D	T	E	S	T	T
C1 error display	8	Remocon	I	N	I	T	I	A	L
C1 error display		Remocon	E	r	*	*	*	*	*
Return to CD TEST MODE	CANCEL	Remocon	C	D	T	E	S	T	T

After receive data

4.4 C1 error history

When 8 key is pressed, syscon send C1 err display command (0x9C 0x01 0x00).
 If syscon receive C1 error display status (0xAA 0x01 0x00 ** **), it displays C1 error.
 Syscon convert 2byte hex data to decimal data (00000-65635).

4.5 Special mode

[STOP] + [POWER] + [0] : COLD SET
 [STOP] + [POWER] + [1] : FL DISPLAY turn on all segment
 [STOP] + [POWER] + [10] :Micom version display (Mecha version, Destination, Syscon version)
 Exsample In case of " 2501 JC241"
 Mecha version: 25
 ROM corr: 1
 Destination: JC
 Syscon version: 24
 Syscon corr: 1

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.MB664<Rev.002>)

Printed in Japan
VPT

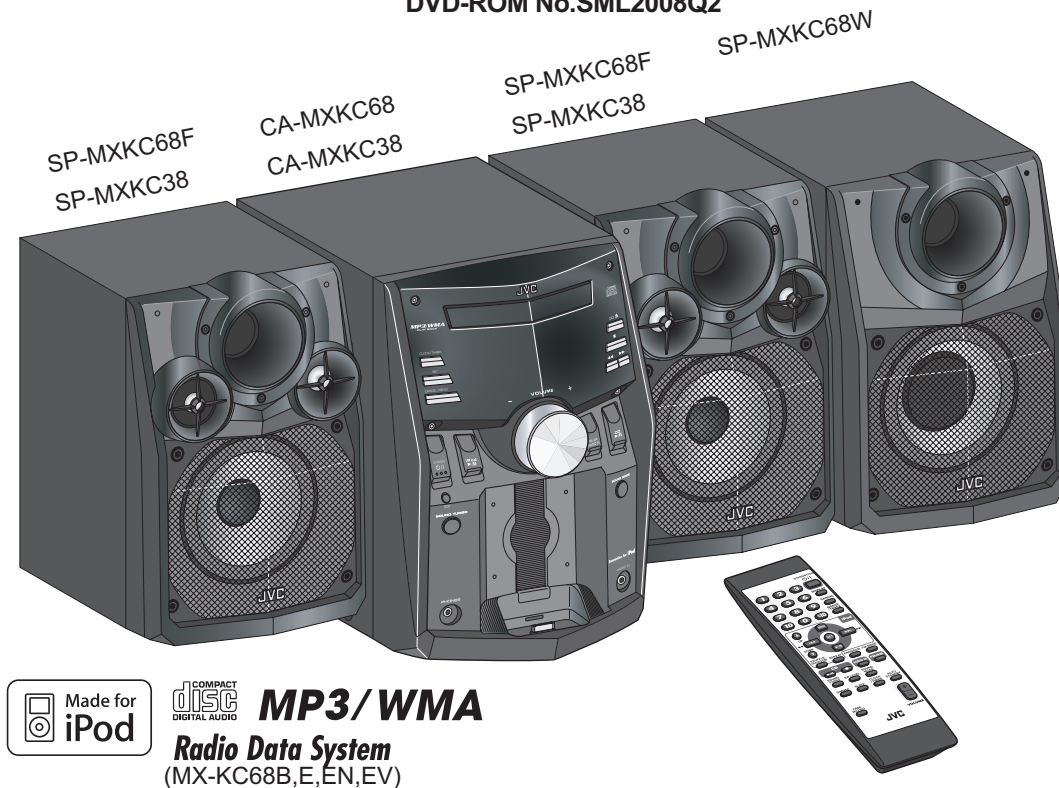
JVC

SCHEMATIC DIAGRAMS

COMPACT COMPONENT SYSTEM

**MX-KC68J, MX-KC68C, MX-KC68B,
MX-KC68E, MX-KC68EN, MX-KC68EV,
MX-KC68A, MX-KC68UJ, MX-KC68UW,
MX-KC38J, MX-KC38C**

DVD-ROM No.SML2008Q2



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

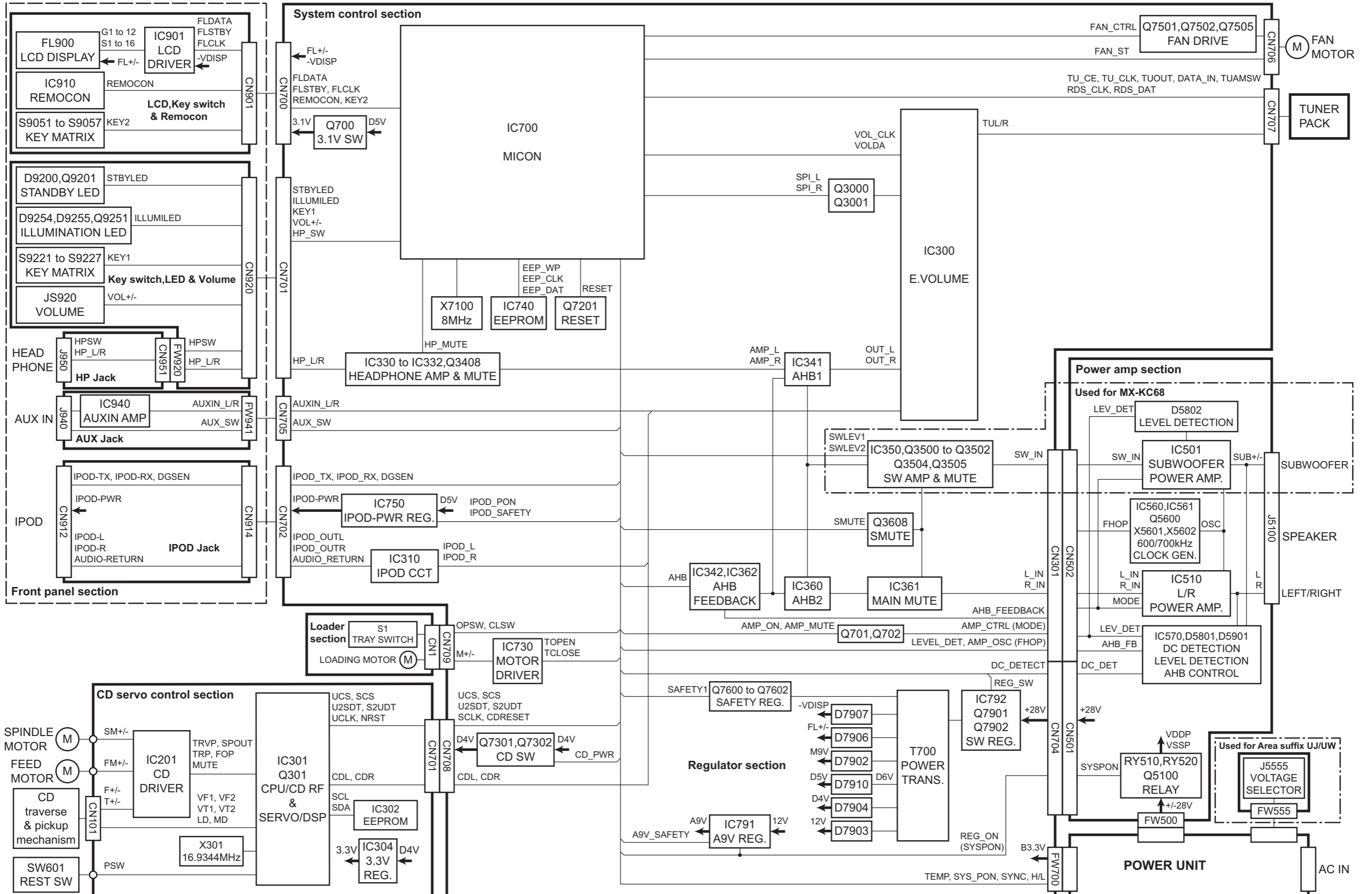
Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)

Contents

Block diagrams	2-1
Standard schematic diagrams	2-2
Printed circuit boards	2-8 to 10

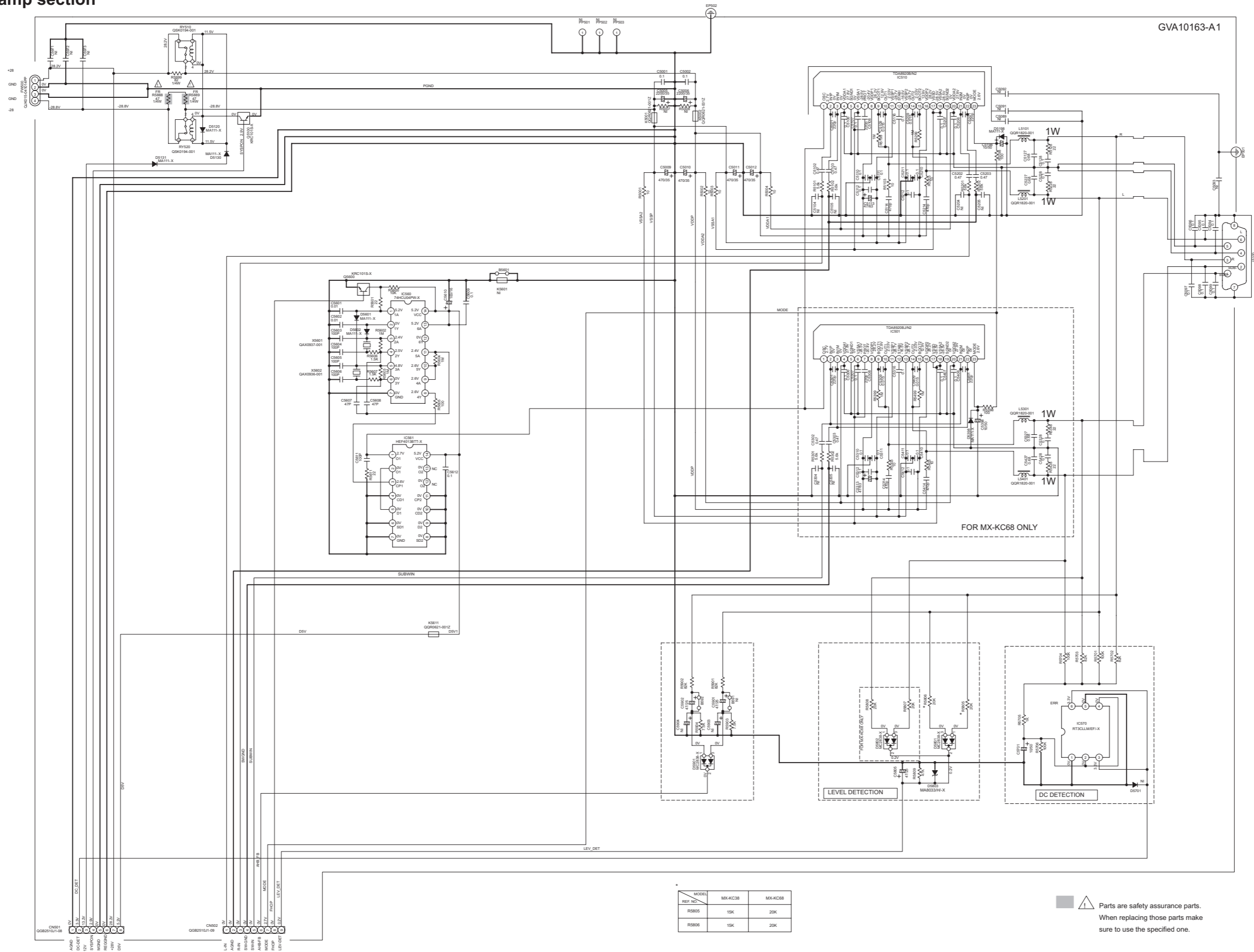
In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (▣) and ICP (●) or identified by the "▲" mark nearby are critical for safety.

Block diagram



Standard schematic diagrams

■ Pre-amp section



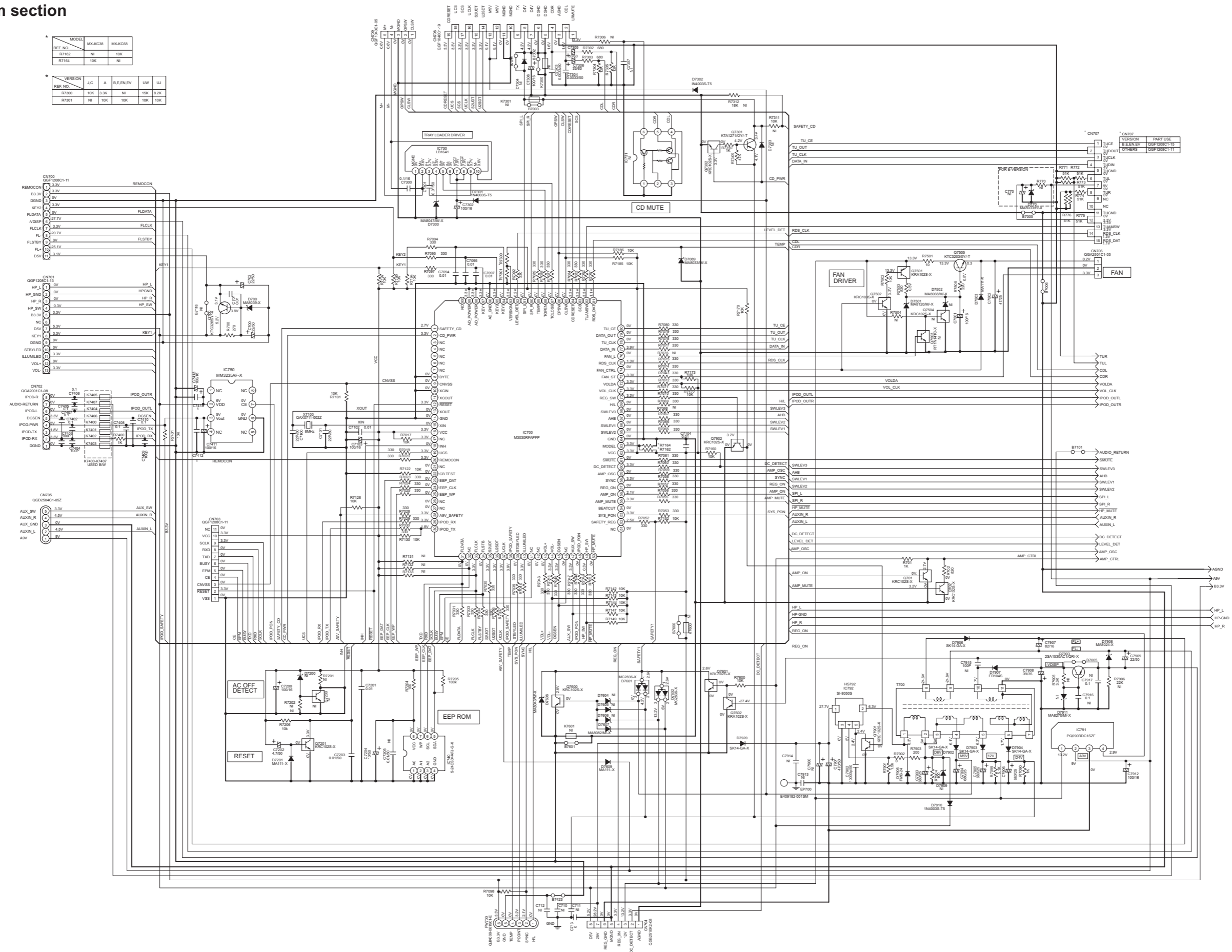
MODEL	MX-KC38	MX-KC38
REF. N°		
R5805	15K	20K
R5806	15K	20K

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

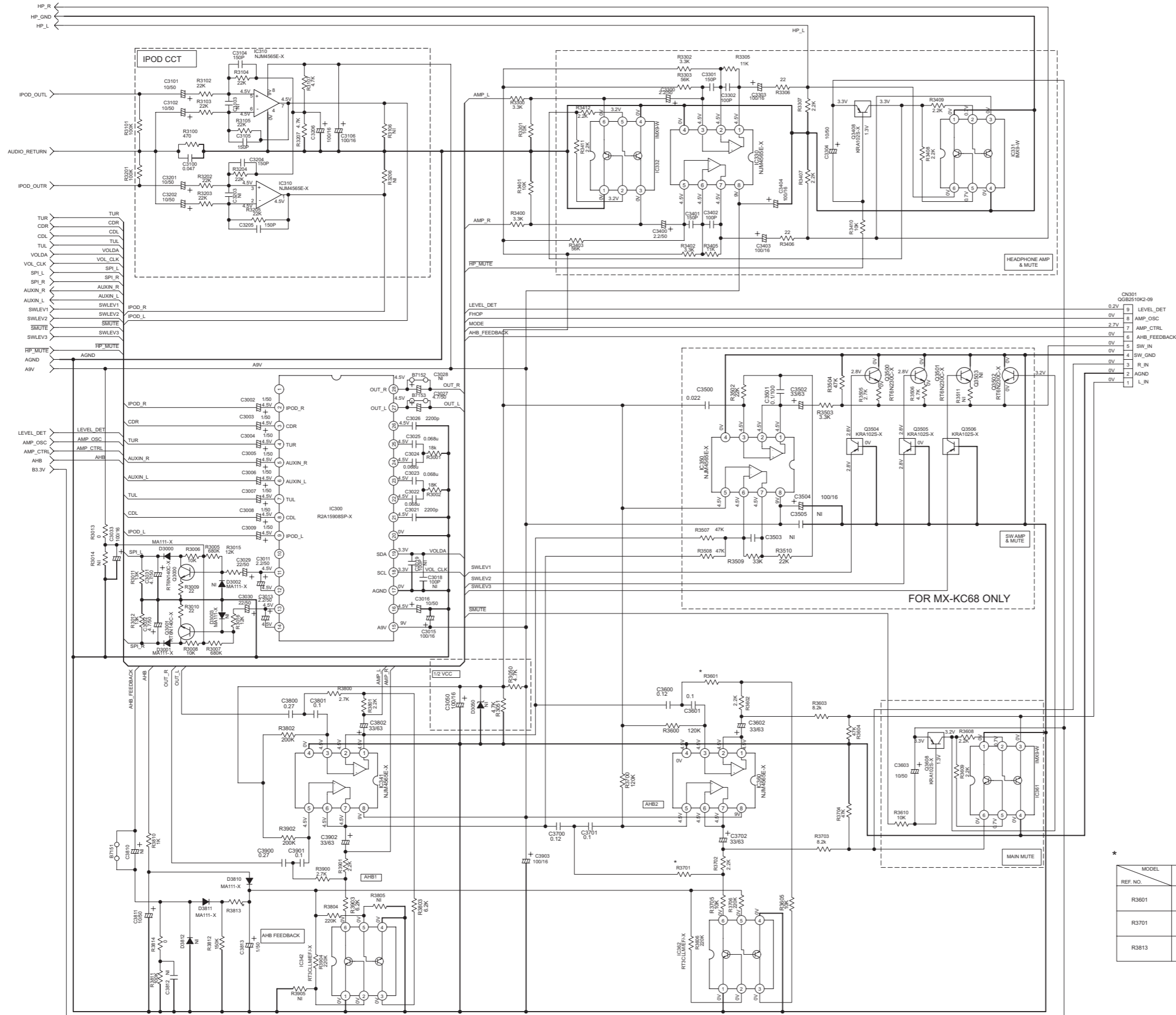
■ Micom section

MODEL	MX-KCR	MX-KCRB
REF. NO.	NI	10K
R7164	NI	NI

VERSION	J.C.	A	B.E.LEV	UW	UJ
REF. NO.	10K	3.3K	NI	10K	8.2K
R7301	NI	10K	10K	10K	10K



■ Amp section



CN301
QGB2510K2-09

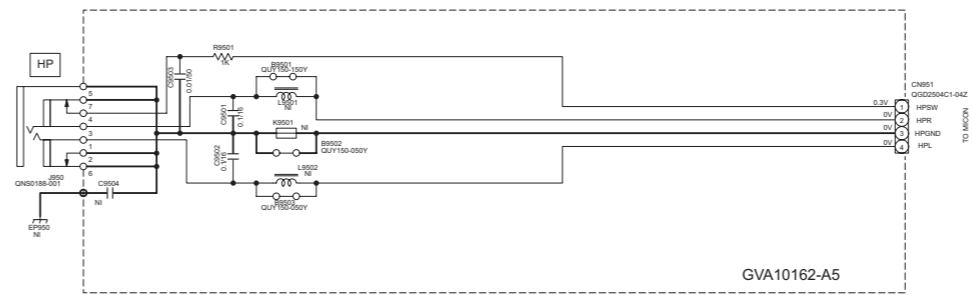
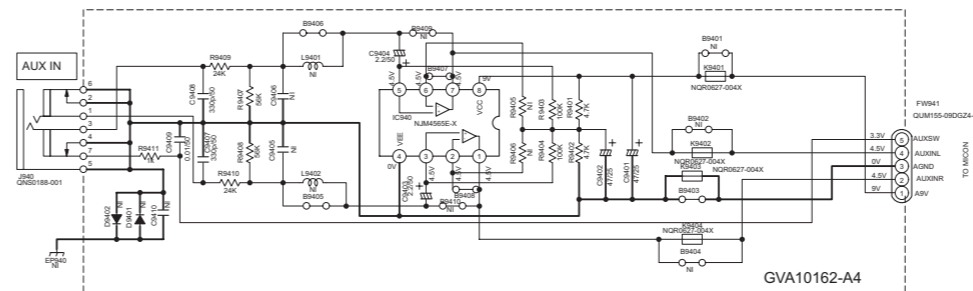
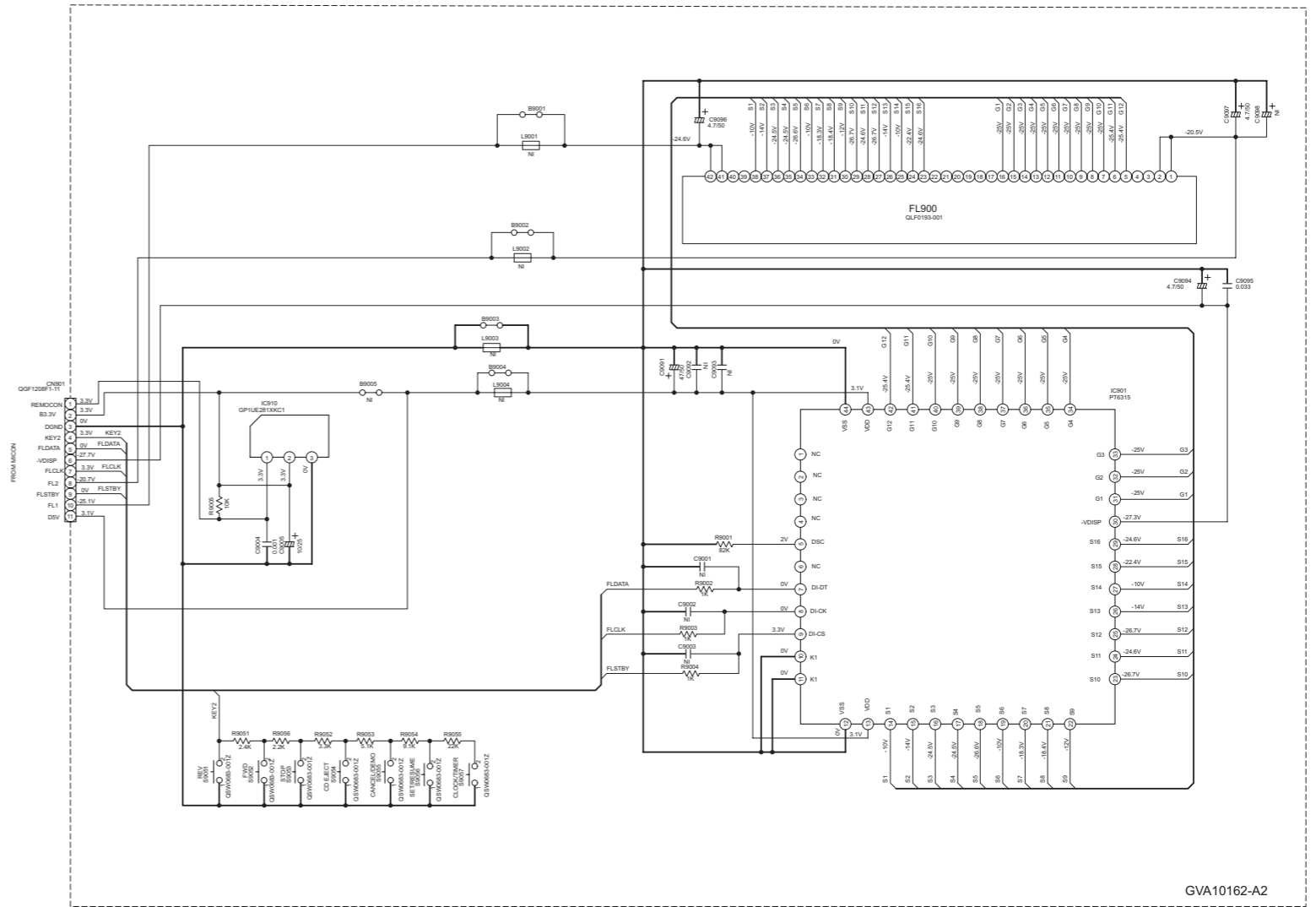
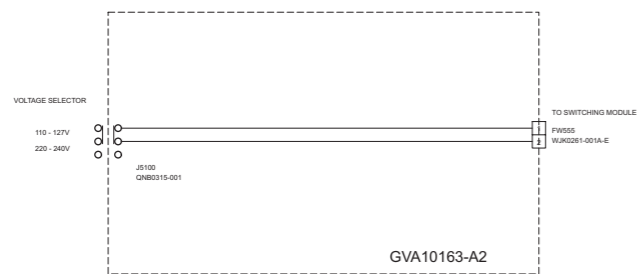
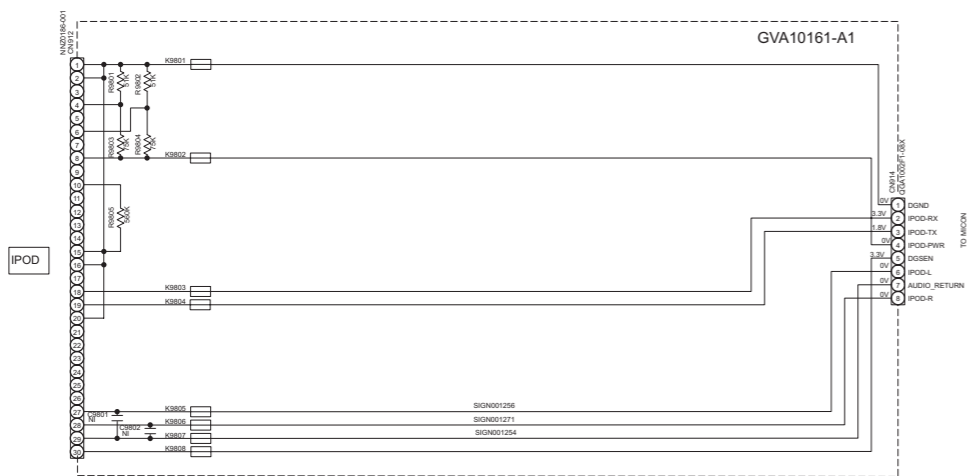
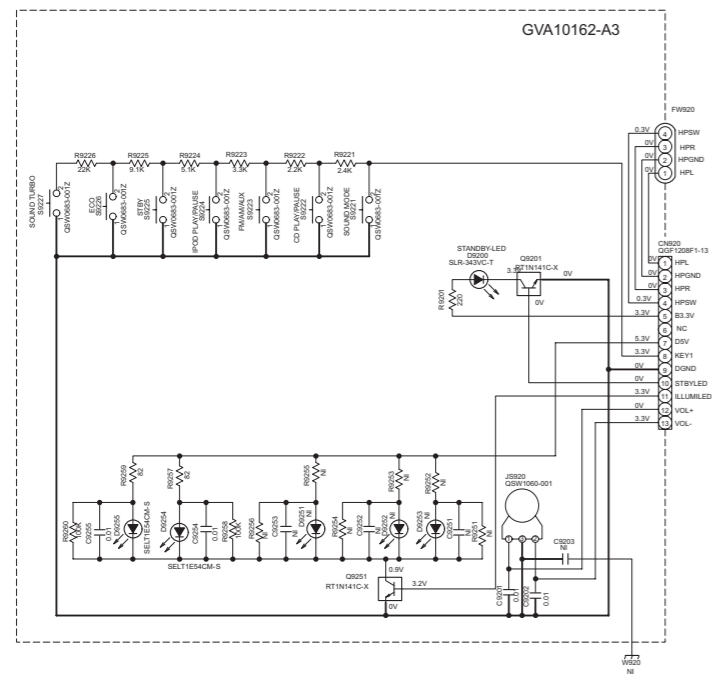
0.2V	9	LEVEL_DET
0V	8	AMP_OSC
2.7V	7	AMP_CTRL
0V	6	AHB_FEEDBACK
0V	5	SW_IN
0V	4	SW_GND
0V	3	R_IN
0V	2	AGND
0V	1	L_IN

FOR MX-KC68 ONLY

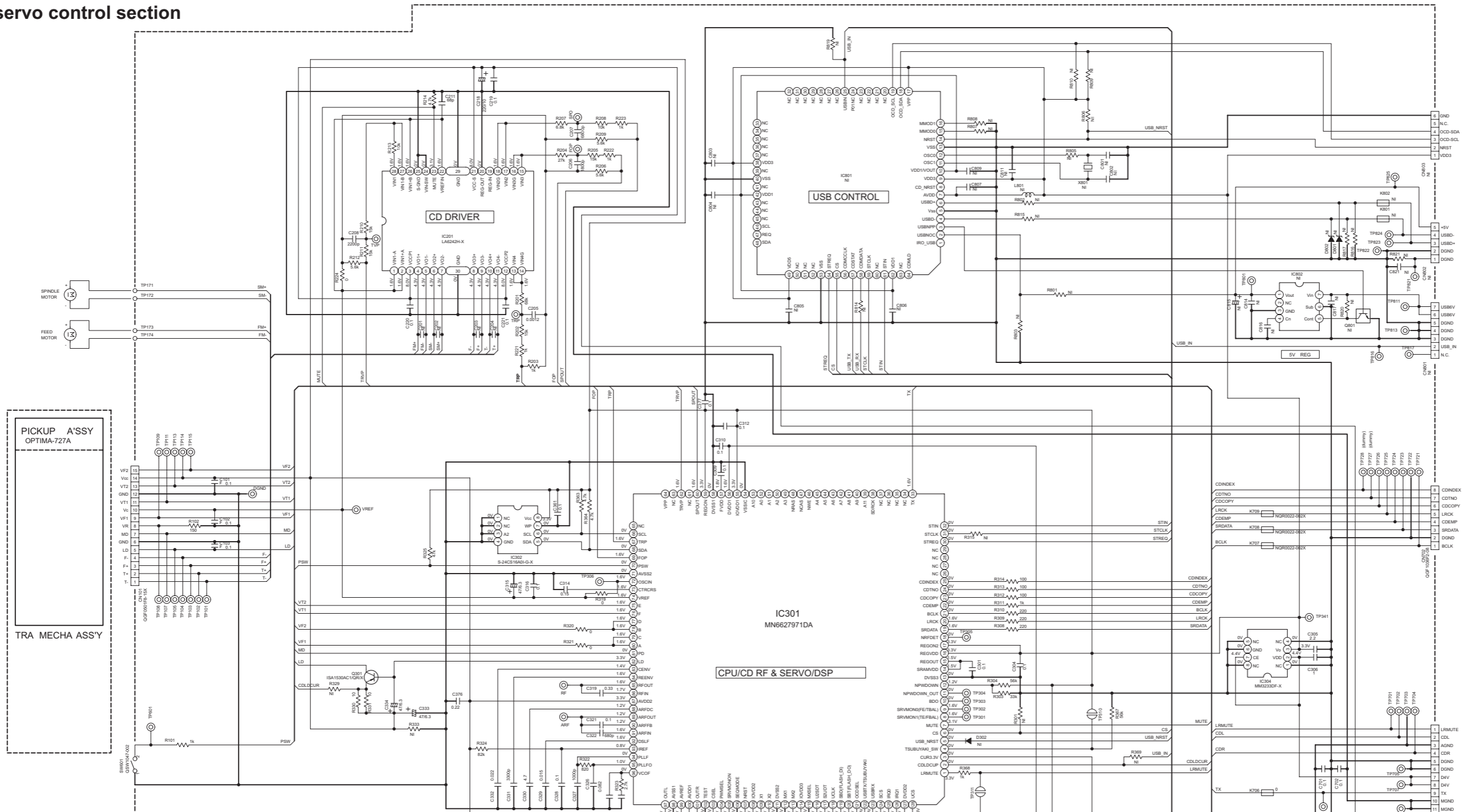
*

MODEL	MX-KC68	MX-KC38
REF. NO.		
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R3701	4.3K	3.9K
R3813	4.3K	6.8K

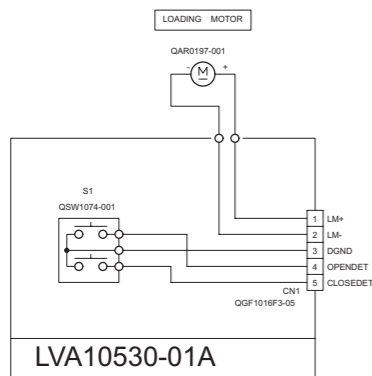
■ Front section



■ CD servo control section



■ Loader section



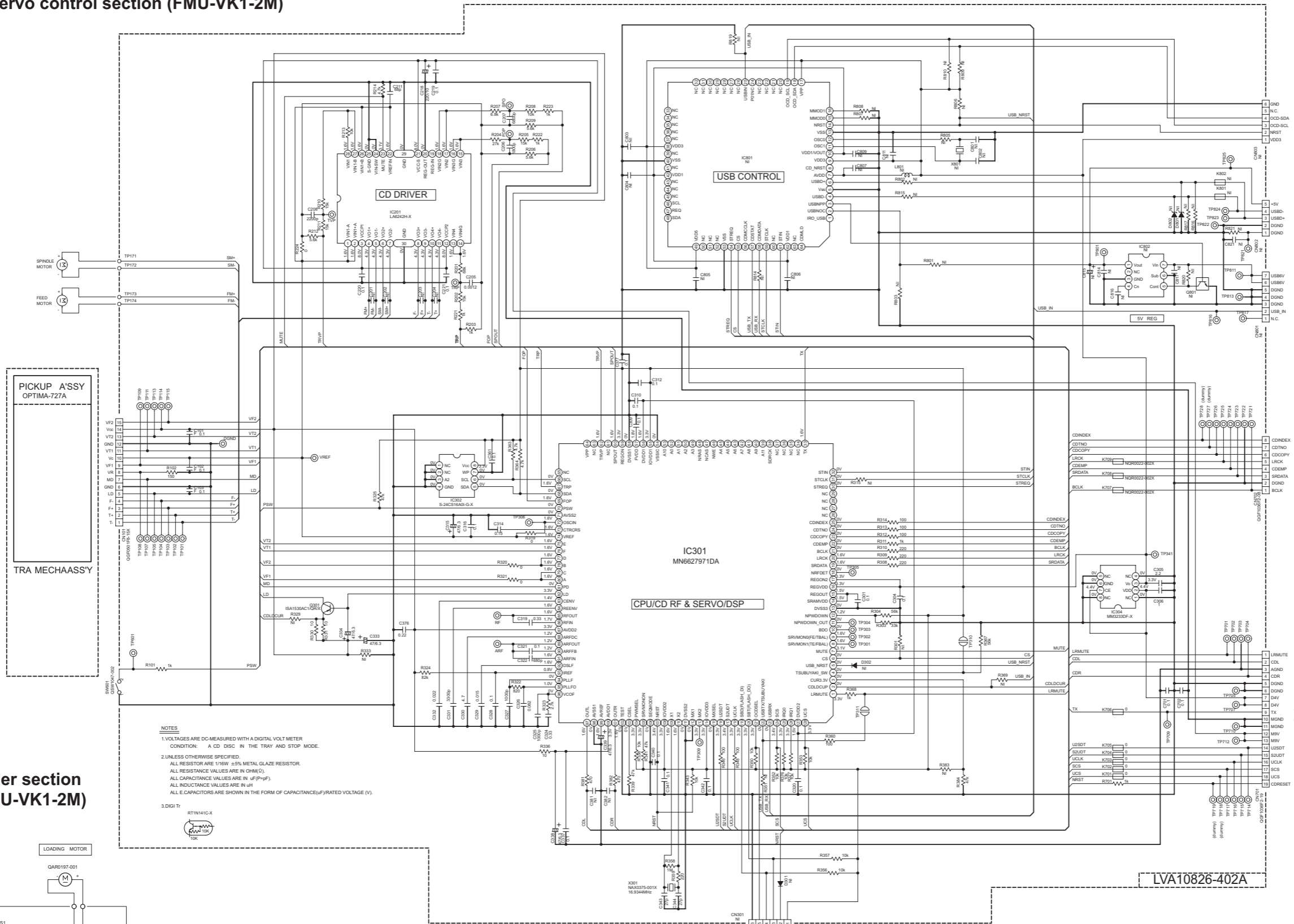
NOTES

- 1.VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER IN THE TRAY AND STOP MODE. CONDITION: A CD DISC IN THE TRAY AND STOP MODE.
- 2.UNLESS OTHERWISE SPECIFIED: ALL RESISTOR ARE 1/8W 5% METAL GLAZE RESISTOR. ALL RESISTANCE VALUES ARE IN OHM (Ω). ALL CAPACITANCE VALUES ARE IN #F(P-pF). ALL INDUCTANCE VALUES ARE IN #H. ALL ELECTROLYTIC CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF) / RATED VOLTAGE (V).

3.DIGI TR



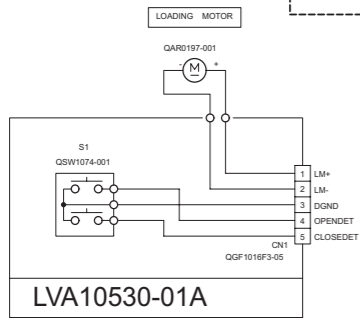
■ CD servo control section (FMU-VK1-2M)



NOTES

- 1.VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER CONDITION. A CD DISC IN THE TRAY AND STOP MODE.
- 2.UNLESS OTHERWISE SPECIFIED, ALL RESISTOR ARE 1/8W ±5% METAL GLAZE RESISTOR. ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITANCE VALUES ARE IN μF(μF). ALL INDUCTANCE VALUES ARE IN μH. ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
- 3.DIGIT: RT1N141C-X

■ Loader section (FMU-VK1-2M)



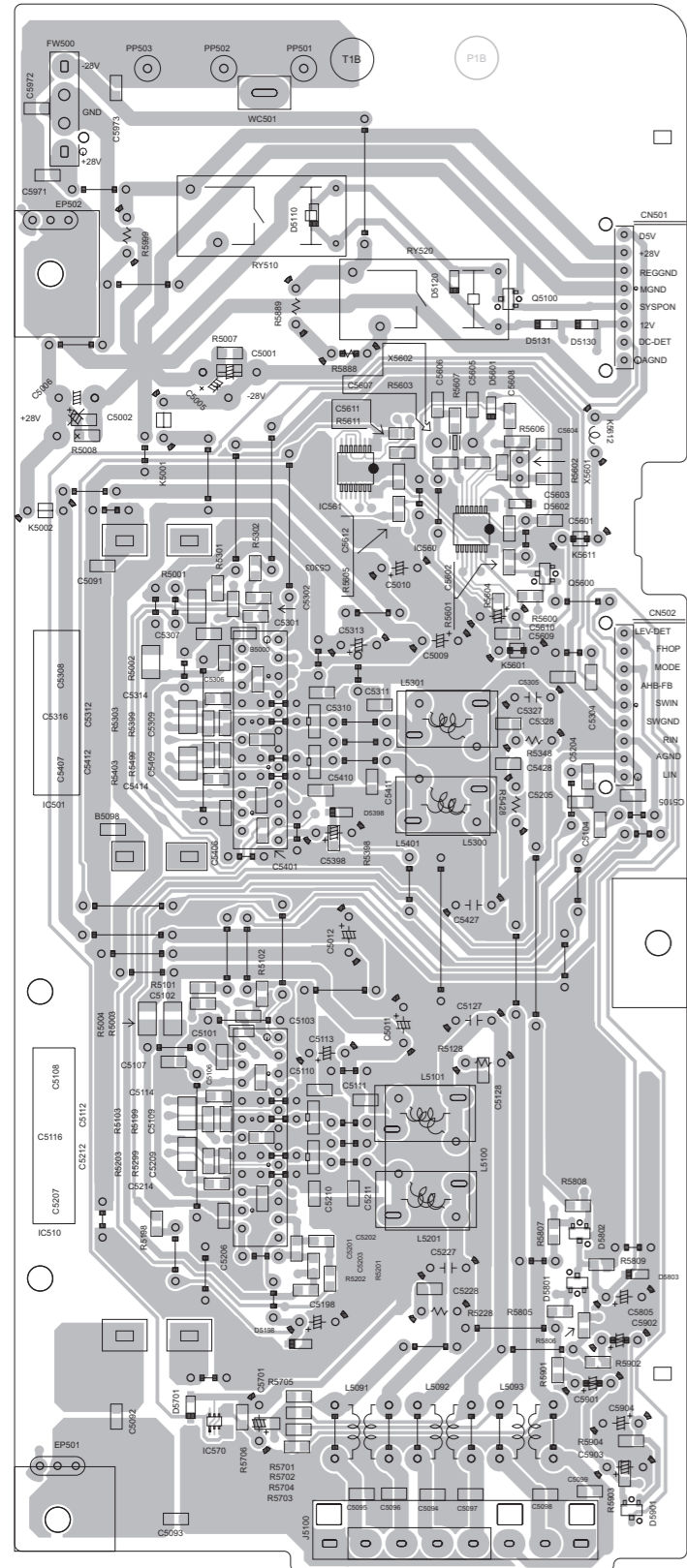
LVA10826-402A

FOR MN6627971 FLASH WRITER

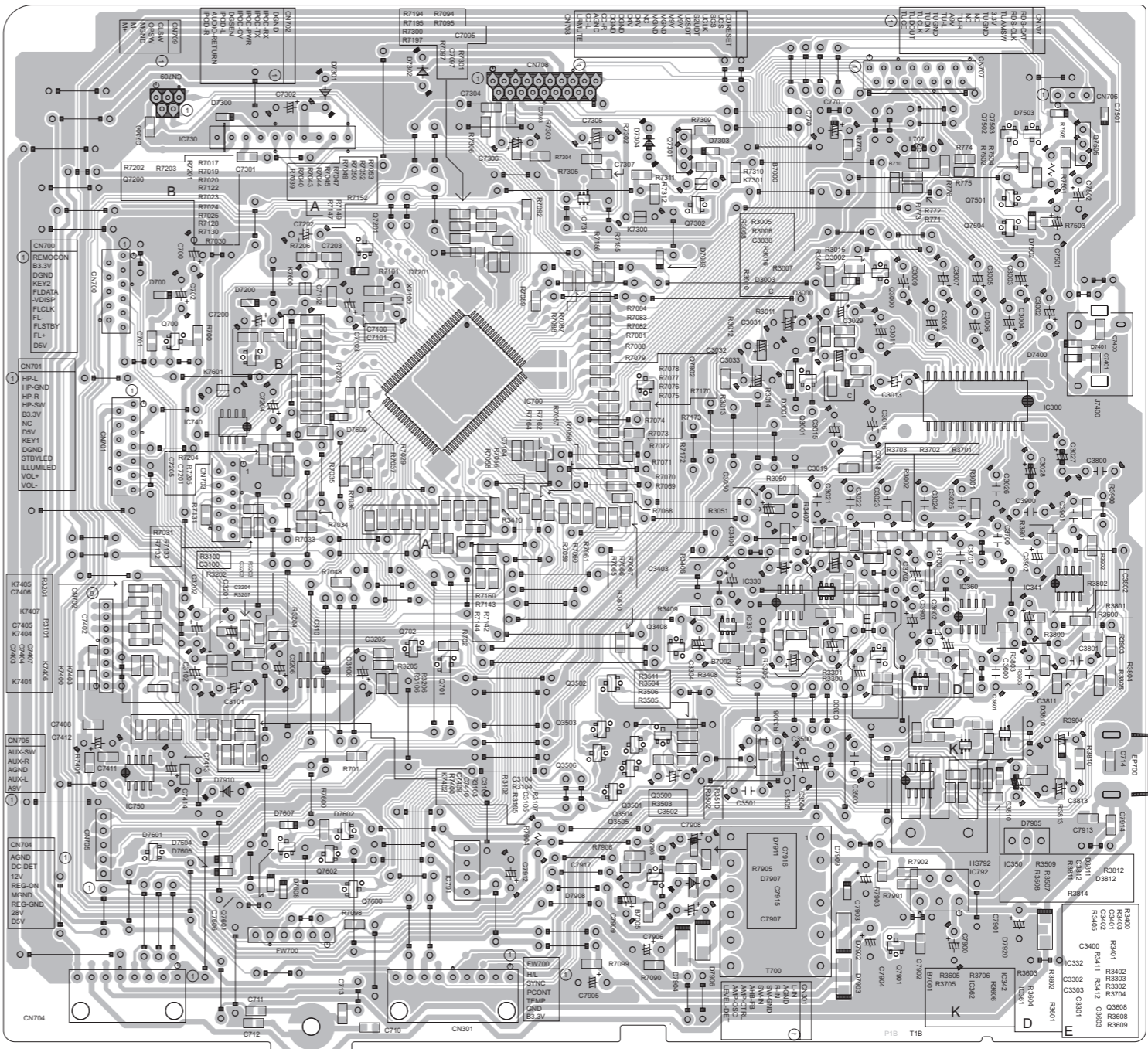
To Microm section 1 CN708

Printed circuit boards

■ **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)



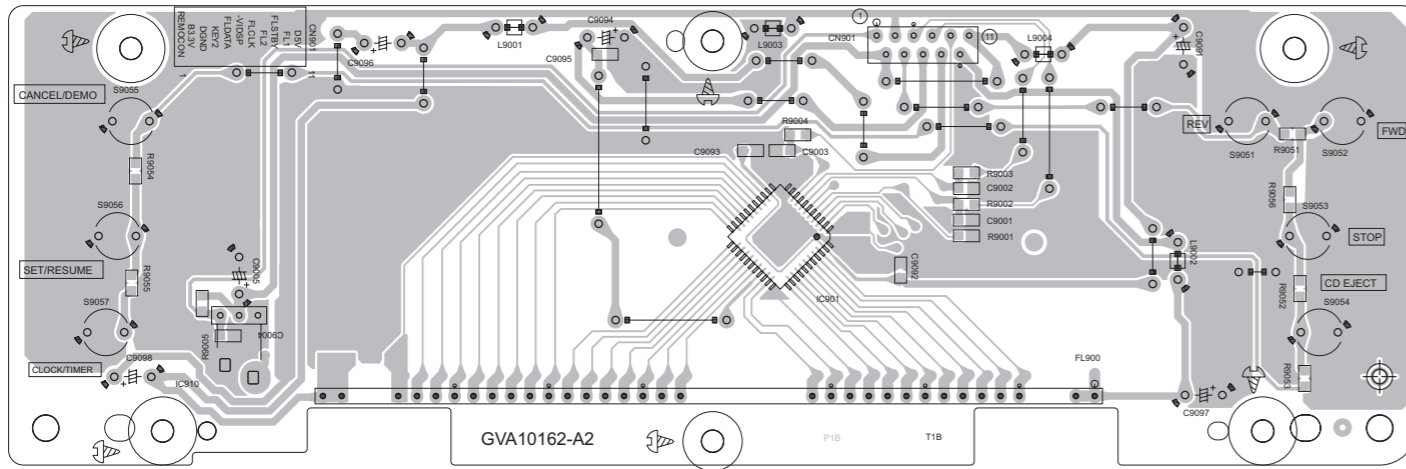
■ **Micom board** Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)
 Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)



■ **FL board**

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

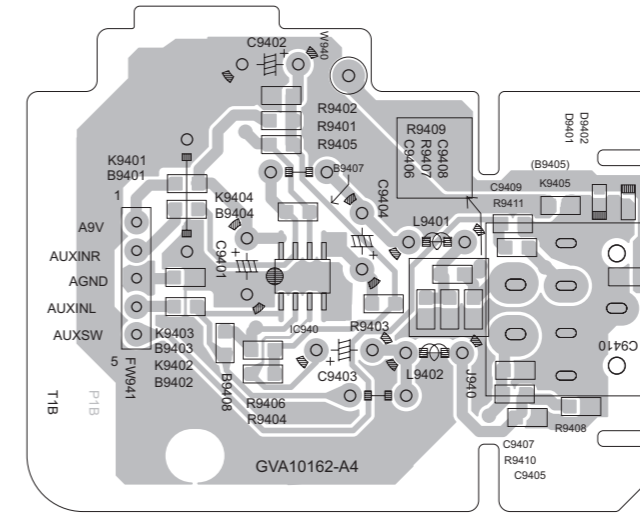
Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)



■ **AUX jack board**

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

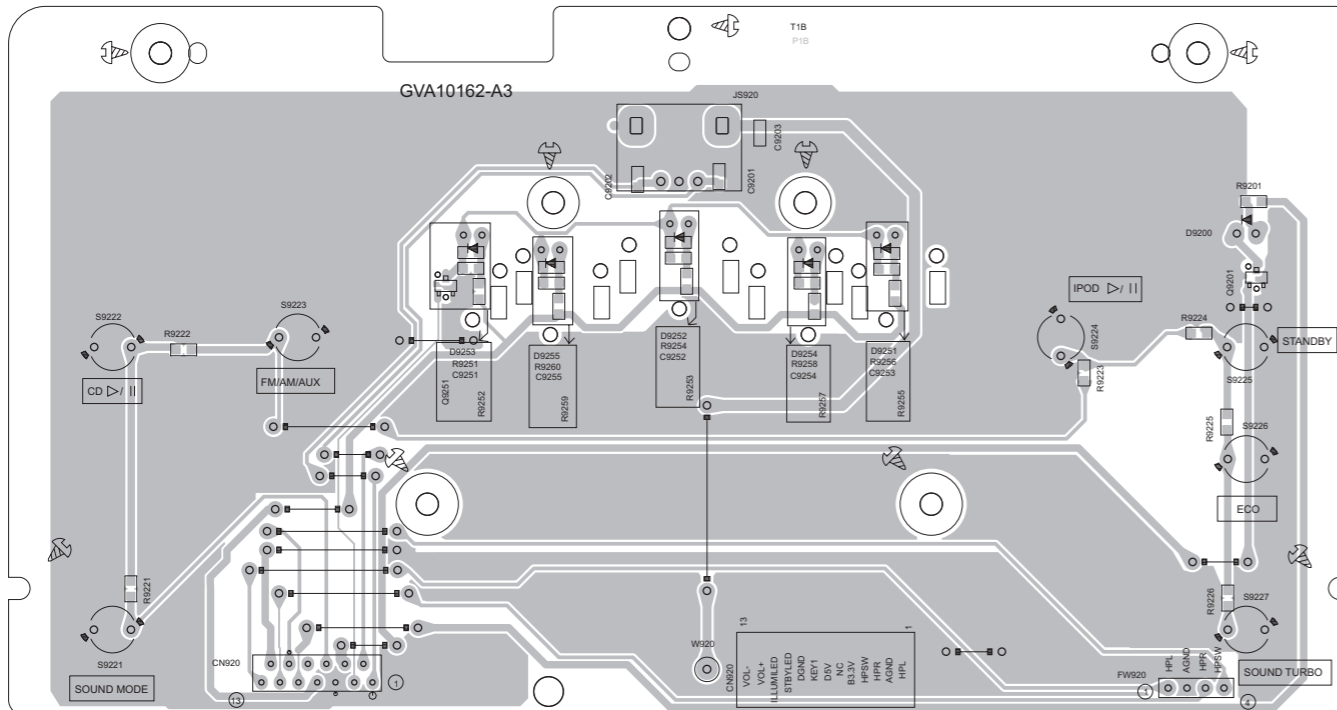
Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)



■ **Volume board**

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

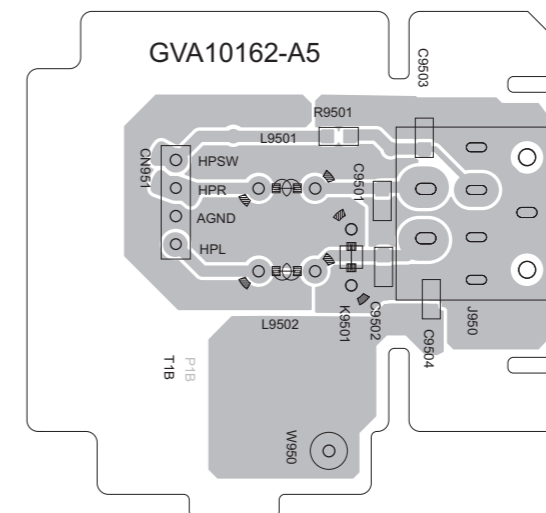
Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)



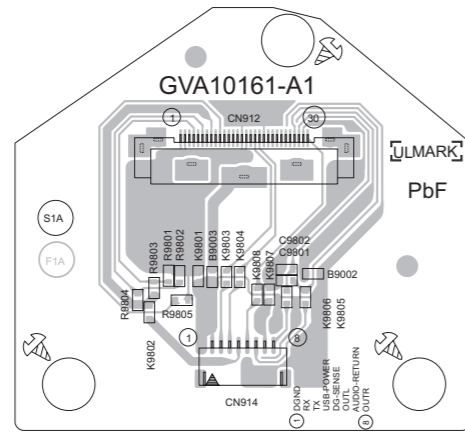
■ **Headphone jack board**

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)



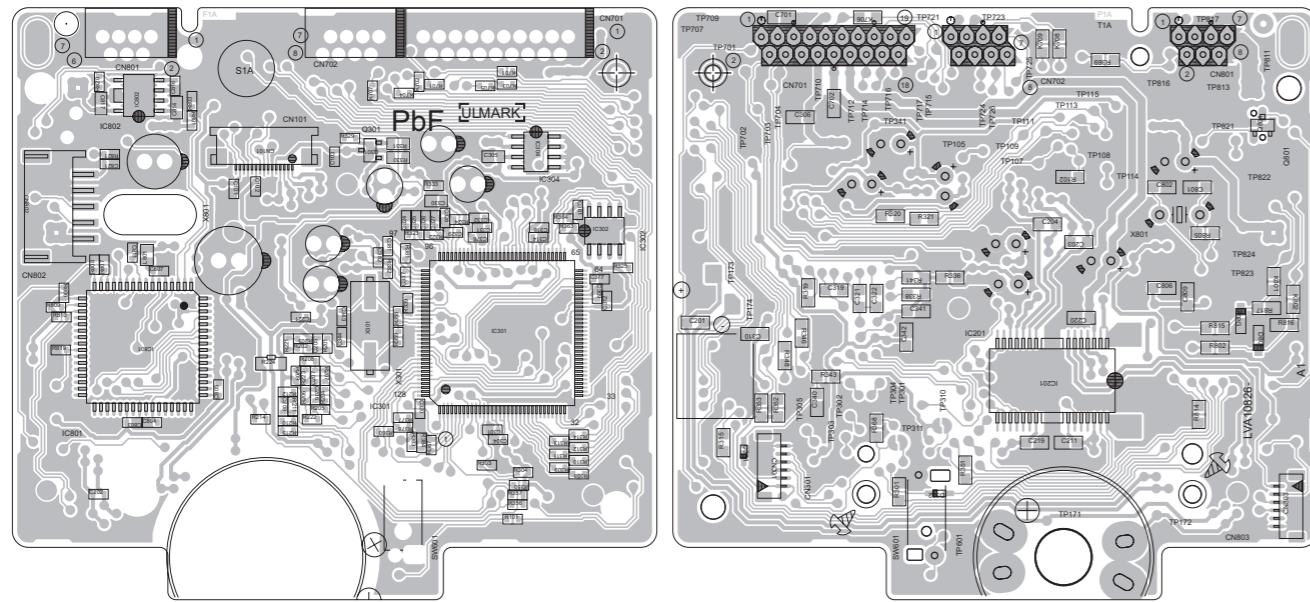
■ iPod board Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)
 Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)



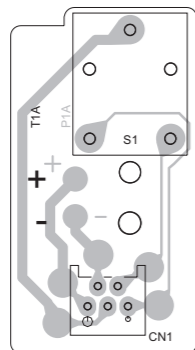
■ CD servo control board Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)
 Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)

forward side

reverse side



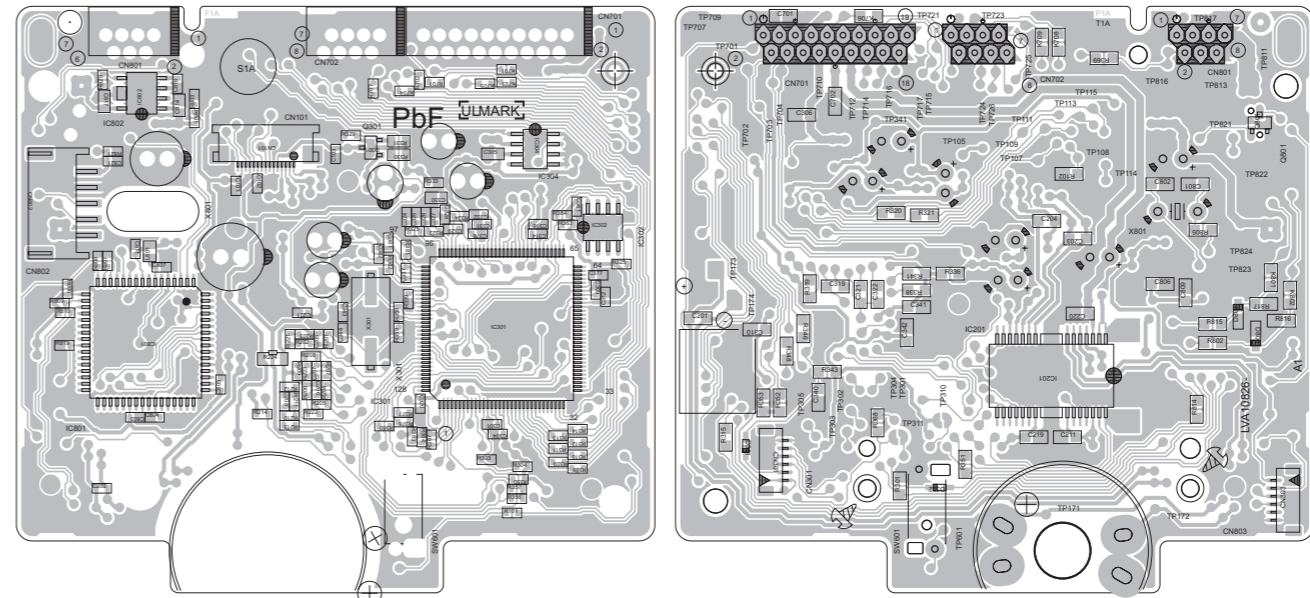
■ Loader board Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)
 Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)



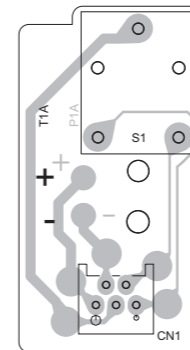
■ CD servo control board (FMU-VK1-2M) Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)
 Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)

forward side

reverse side



■ Loader board (FMU-VK1-2M) 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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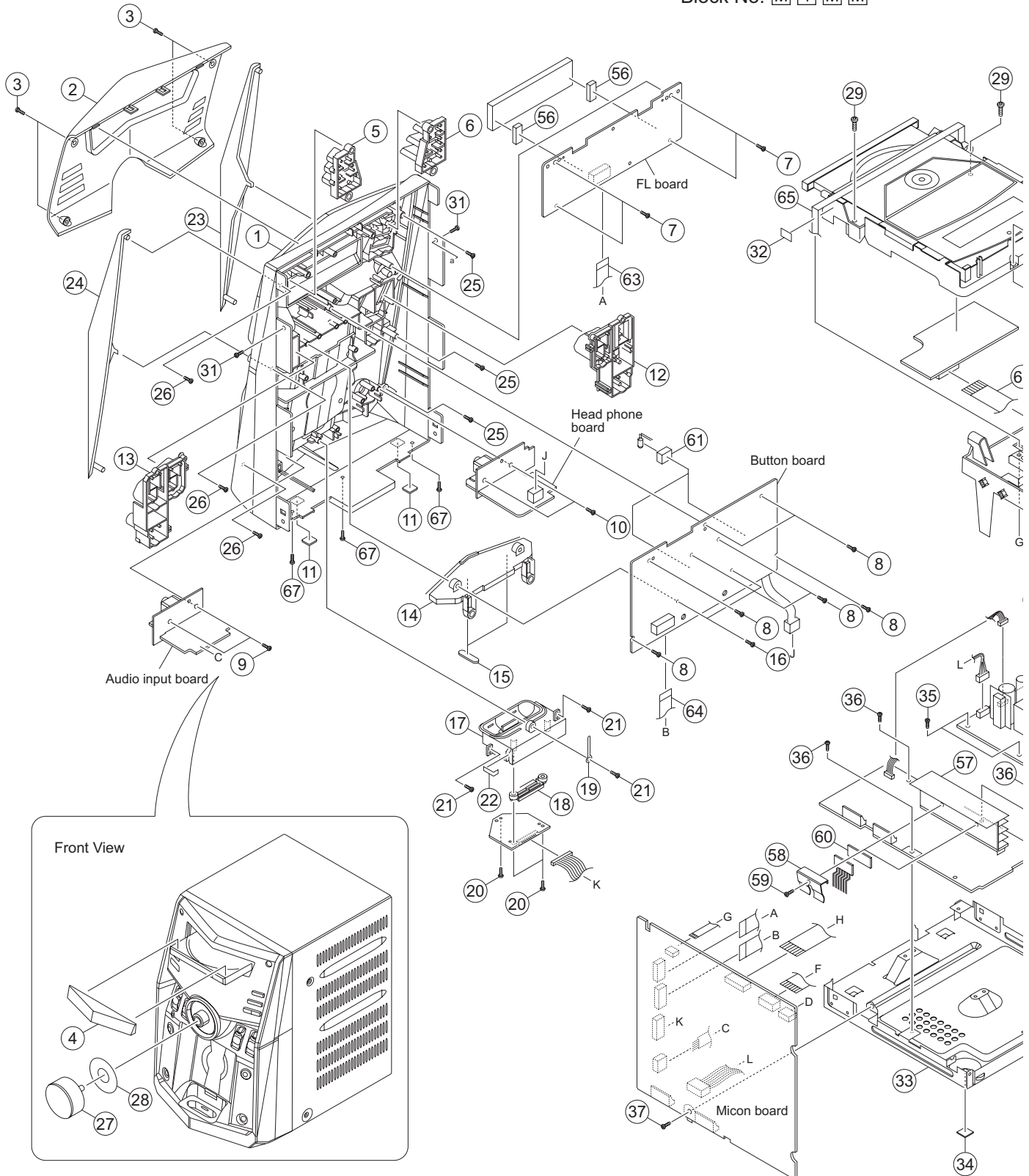


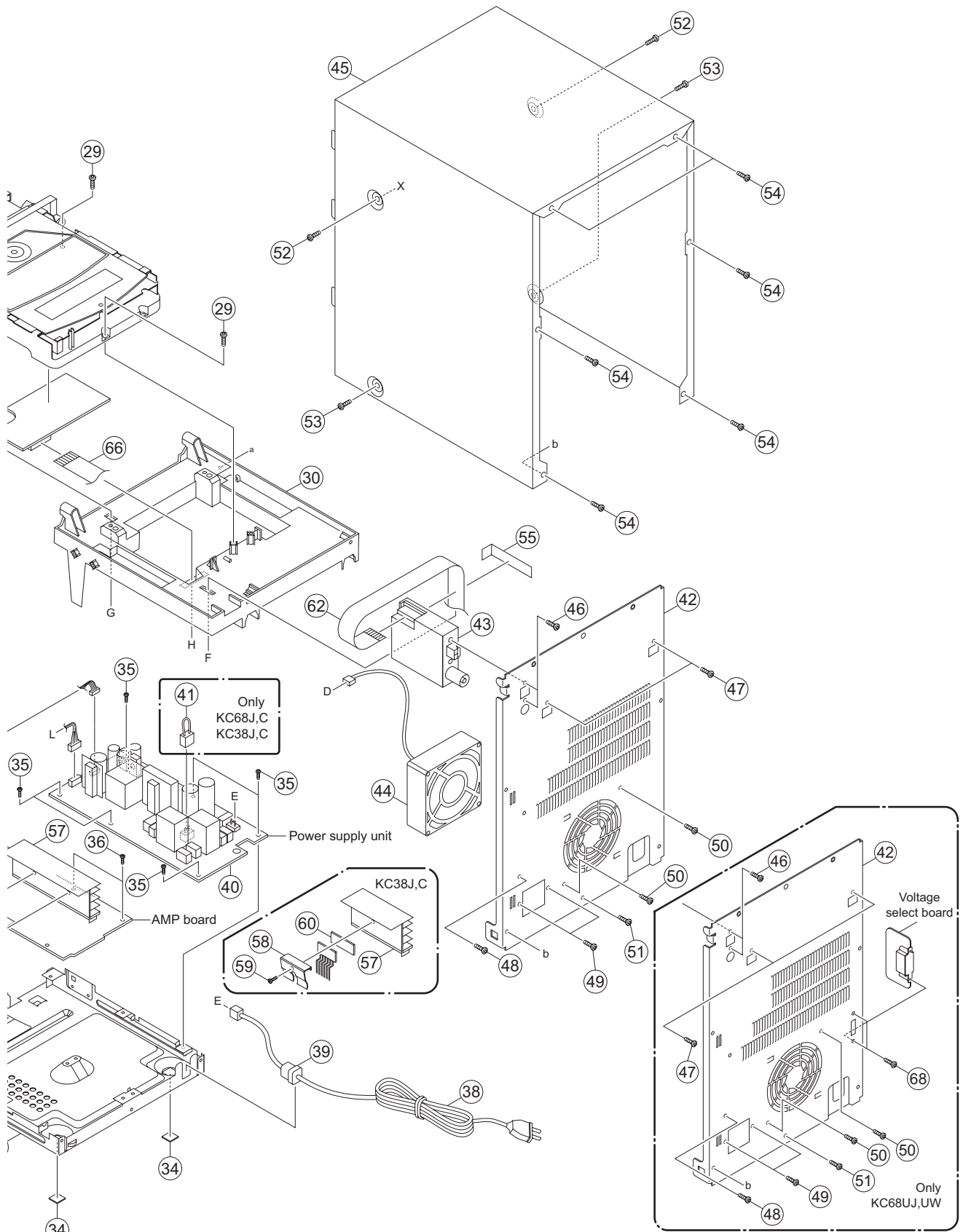
Victor Company of Japan, Limited

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

Exploded view of general assembly and parts list

Block No. M 1 M M





General Assembly

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

△	Symbol No.	Part No.	Part Name	Description	Local
	1	GV10414-001A	FRONT PANEL		68J,68C,38J,38C
	1	GV10414-002A	FRONT PANEL		68B,68E,68EN,68EV,68A,68UJ,68UW
	2	GV20506-001A	FL LENS		68J,68C,68A,68UJ,68UW,38J,38C
	2	GV20506-002A	FL LENS		68B,68E,68EN,68EV
	3	LV40744-003A	SOCKET BOLT	(x4)	
	4	GV31159-001A	TRAY FITTING		68J,68C,68B,68E,68EN,68EV,68A,68UJ,68UW
	4	GV31159-002A	TRAY FITTING		38J,38C
	5	GV31151-001A	CD BUTTON		
	6	GV31152-001A	CHANNEL BUTTON		
	7	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x4)	
	8	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x7)	
	9	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x2)	
	10	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x2)	
	11	GV40313-001A	FELT SPACER	(x2)	
	12	GV40804-001A	BUTTON A ASSY.		
	13	GV31154-001A	BUTTON B		
	14	GV31156-001A	LIGHTING PANEL		
	15	GV40815-001A	RUBBER SPACER	(x2)	
	16	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x2)	
	17	GV31155-001A	IPOD HOLDER		
	18	GV40800-001A	IPOD LOCK		
	19	VKZ4001-110	WIRE HOLDER		
	20	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x3)	
	21	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x3)	
	22	GV30349-074A	SPACER		
	23	GV20509-001A	SIDE ORNAMENT L		
	24	GV20510-001A	SIDE ORNAMENT R		
	25	QYSDSF2008ZA	TAP SCREW	M2 x 8mm(x3)	
	26	QYSDSF2008ZA	TAP SCREW	M2 x 8mm(x3)	
	27	GV31160-001A	VOLUME KNOB		
	28	GV40803-001A	VOL.KNOB SHEET		
	29	QYSBSF3010ZA	TAP SCREW	M3 x 10mm(x3)	
	30	GV10418-001A	MECHA CHASSIS		
	31	QYSSSF3010ZA	TAP SCREW	M3 x 10mm(x2)	
	32	GV30349-044A	SPACER		
	33	GV10417-001A	BOTTOM CHASSIS		
	34	GV40313-001A	FELT SPACER	(x2)	
	35	QYSDSG3006ZA	TAP SCREW	M3 x 6mm(x6)	
	36	QYSDSG3006ZA	TAP SCREW	M3 x 6mm(x4)	
	37	QYSBSGG3008EA	TAP SCREW	M3 x 8mm	
	38	QMPD330-200-JD	POWER CORD(US/CA)	2m BLACK	68J,68C,38J,38C
	38	QMPN410-200-JD	POWER CORD	2m BLACK	68B
	38	QMPK200-200-JD	POWER CORD	2m BLACK	68E,68EN,68EV,68UJ,68UW
	38	QMPG080-244-JD	POWER CORD	2.44m BLACK	68A
	39	QZW0033-001	STRAIN RELIEF		
	40	QAL1060-001	POWER UNIT ASSY		68J,68C,38J,38C
	40	QAL1060-002	POWER UNIT ASSY		68B,68E,68EN,68EV,68A,68UJ,68UW
	41	WJZ0307-003A-E	E-HARNESS ASSY		68J,68C,38J,38C
	42	GV10416-001A	REAR PANEL		68J,68C
	42	GV10416-002A	REAR PANEL		68B,68E,68EN
	42	GV10416-003A	REAR PANEL		68EV
	42	GV10416-004A	REAR PANEL		68A
	42	GV10416-005A	REAR PANEL		68UJ,68UW
	42	GV10416-006A	REAR PANEL		38J,38C
	43	QAU0509-001	TUNER		68J,68C,68A,68UJ,68UW,38J,38C
	43	QAU0510-001	TUNER		68B,68E,68EN,68EV
	44	QAR0473-001	FAN		
	45	GV10415-001A/S/	METAL COVER		
	46	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
	47	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
	48	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	49	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
	50	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
	51	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	52	QYSDSG3008NA	TAP SCREW	M3 x 8mm(x2)	
	53	QYSDSG3008NA	TAP SCREW	M3 x 8mm(x2)	
	54	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x6)	
	55	LV30225-074A	SPECER		
	56	GV30349-077A	SPACER	(x2)	
	57	GV40806-001A	HEAT SINK ASSY		68J,68C,68B,68E,68EN,68EV,68A,68UJ,68UW
	57	GV40806-003A	HEAT SINK ASSY		38J,38C
	58	GV40805-001A	IC BRACKET	(x2)	68J,68C,68B,68E,68EN,68EV,68A,68UJ,68UW
	58	GV40805-001A	IC BRACKET		38J,38C
	59	QYSBSG3012ZA	TAP SCREW	M3 x 12mm(x2)	68J,68C,68B,68E,68EN,68EV,68A,68UJ,68UW

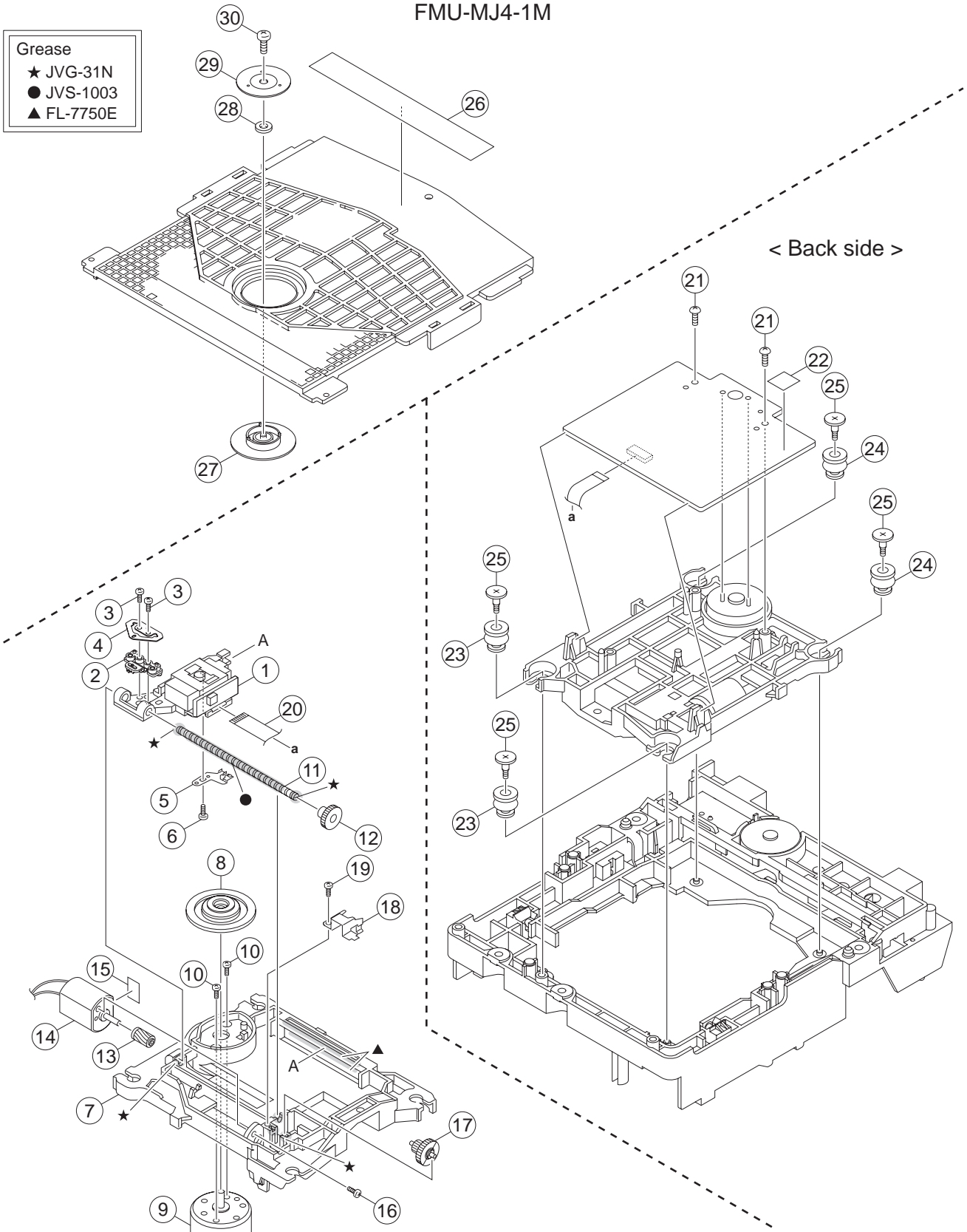
△ Symbol No.	Part No.	Part Name	Description	Local
59	QYSBSG3012ZA	TAP SCREW	M3 x 12mm	38J,38C
60	GV40791-002A	THERMAL SHEET	(x2)	68J,68C,68B,68E,68EN,68EV,68A,68UJ,68UW
60	GV40791-002A	THERMAL SHEET		38J,38C
61	GV40811-001A	LED HOLDER	(x2)	
62	QUQU12-1117AJ-E	FFC WIRE	11pin 17cm	68J,68C,68A,68UJ,68UW,38J,38C
62	QUQU12-1517AJ-E	FFC WIRE	15pin 17cm	68B,68E,68EN,68EV
63	QUQU12-1115BJ-E	FFC WIRE	11pin 15cm	
64	QUQU12-1315AJ-E	FFC WIRE	13pin 15cm	
65	QUR110-0530AJ-E	FFC WIRE		
66	QUR110-1916BJ-E	FFC WIRE		
67	QYSBSG3010ZA	TAP SCREW	M3 x 10mm(x3)	
68	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	68UJ,68UW

CD mechanism assembly and parts list

Block No. M B M M

FMU-MJ4-1M

- | Grease | |
|--------|----------|
| ★ | JVG-31N |
| ● | JVS-1003 |
| ▲ | FL-7750E |



The parts without symbol number are not service.

CD mechanism

Block No. [M][B][M][M]

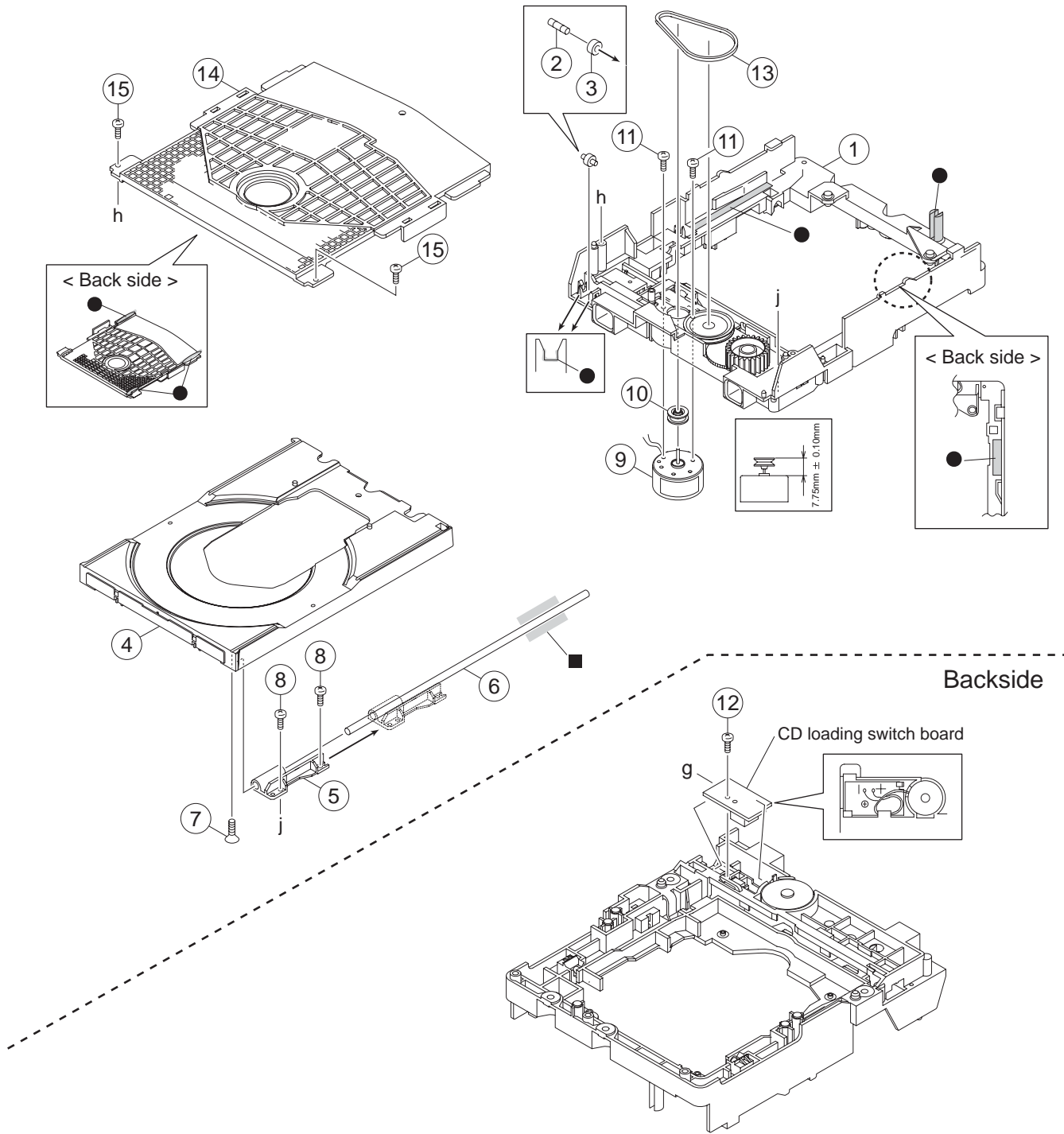
△ Symbol No.	Part No.	Part Name	Description	Local
1	QAL0993-001	PICK UP		
2	LV22529-003A	RACK ARM		
3	VKZ4777-012	MINI SCREW	(x2)	
4	LV37574-001A	RACK ARM SPRING		
5	LV37786-001A	PS SPRING		
6	QYSPSGT1425MA	TAP SCREW	M1.4 x 2.5mm	
7	LV10855-004A	TM CHASSIS		
8	LV43648-002A	TURN TABLE		
9	QAR0302-001	SPINDLE MOTOR	2.0V DC	
10	VKZ4743-002	SPECIAL SCREW	(x2)	
11	LV40157-001A	SCREW SHAFT		
12	LV43651-001A	SS GEAR		
13	LV43650-001A	F MOTOR GEAR		
14	QAR0303-001	FEED MOTOR	2.0V DC	
15	LV30227-0B7A	SPACER		
16	QYSPSPT2030MA	SCREW	M2 x 3mm	
17	LV34565-003A	F MIDDLE GEAR		
18	LV34563-002A	SHAFT HOLDER		
19	QYSPSFT1740ZA	TAP SCREW	M1.7 x 4mm	
20	QUQU05-1506BB-E	FFC WIRE	15pin 6cm	
21	QYSBSF2006ZA	TAP SCREW	M2 x 6mm(x2)	
22	LV30225-073A	SPACER		
23	LV44043-001A	INSULATOR	(x2)	
24	LV44043-002A	INSULATOR	(x2)	
25	LV44044-001A	SPECIAL SCREW	(x4)	
26	LV44603-003A	LASER CAUTION		
27	LV34586-002A	CD CLAMPER		
28	LV42930-003A	MAGNET		
29	LV43848-001A	YOKE		
30	LV43958-001A	SPECIAL SCREW		

CD loading base assembly and parts list

Block No. M D M M

FLM-J6-2M

Grease	
●	JVS-1003
■	JCFD-4007ZY2



The parts without symbol number are not service.

CD loading base mechanism

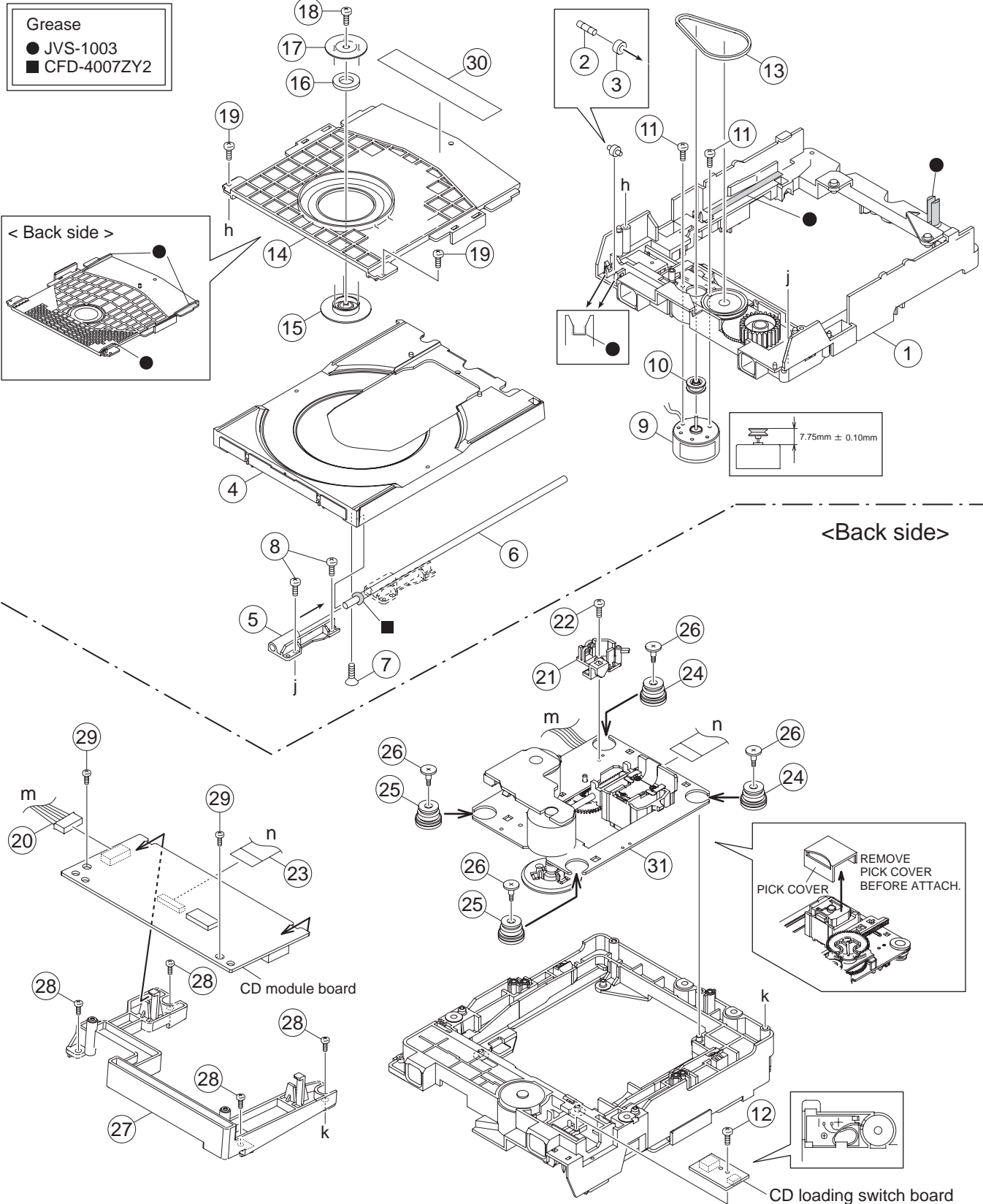
Block No. [M][D][M][M]

△	Symbol No.	Part No.	Part Name	Description	Local
	1	LV11065-014A	LOADER SUB ASSY		
	2	E407140-001SS	C.D ROLLER		
	3	E407149-001SS	RUBBER TUBE		
	4	LV10979-003A	TRAY		
	5	LV35499-003A	SHAFT GUIDE		
	6	LV44022-001A	SHAFT		
	7	QYSSSF2008ZA	TAP SCREW	M2 x 8mm	
	8	QYSDSF2008ZA	TAP SCREW	M2 x 8mm(x2)	
	9	QAR0197-001	MOTOR	2.0V DC	
	9	or QAR0450-001	MOTOR		
	10	LV43844-002A	MOTOR PULLEY		
	11	QYSPSPU1730ZA	SCREW	M1.7 x 3mm(x2)	
	12	QYSDSF2008ZA	TAP SCREW	M2 x 8mm	
	13	LV43974-001A	BELT		
	14	LV21852-003A	CLAMPER BASE		
	15	QYSDSF2008ZA	TAP SCREW	M2 x 8mm(x2)	

CD loading base assembly and parts list

Block No. M W M M

FMU-VK1-2M



The parts without symbol number are not service.

CD mechanism

Block No. [M][W][M][M]

△ Symbol No.	Part No.	Part Name	Description	Local
1	LV11564-001A	LOADER SUB ASSY		
2	E407140-001SS	C.D ROLLER		
3	E407149-001SS	RUBBER TUBE		
4	LV10979-003A	TRAY		
5	LV35499-003A	SHAFT GUIDE		
6	LV44022-001A	SHAFT		
7	QYSSSF2008ZA	TAP SCREW	M2 x 8mm	
8	QYSDSF2008ZA	TAP SCREW	M2 x 8mm(x2)	
9	QAR0197-001	MOTOR	2.0V DC	
9	or QAR0450-001	MOTOR		
10	LV43844-002A	MOTOR PULLEY		
11	QYSPSPU1730ZA	SCREW	M1.7 x 3mm(x2)	
12	QYSDSF2008ZA	TAP SCREW	M2 x 8mm	
13	LV43974-001A	BELT		
14	LV22684-001A	CLAMPER BASE		
15	LV22686-001A	CLAMPER		
16	LV42929-001A	P.C.MAGNET		
17	LV38206-001A	CD YOKE		
18	LV43958-001A	SPECIAL SCREW		
19	QYSDSF2008ZA	TAP SCREW	M2 x 8mm(x2)	
20	WJJ0955-001A-E	E-SI C WIRE C-C		
21	LV22698-001A	WIRE CLAMPER		
22	QYSPST2006ZA	TAP SCREW	M2 x 6mm	
23	QUR310-1606AE-E	FFC WIRE		
24	LV45127-001A	INSULATOR	(x2)	
25	LV45127-002A	INSULATOR	(x2)	
26	LV44044-001A	SPECIAL SCREW	(x4)	
27	LV11565-001A	CB HOLDER		
28	QYSBSF2608ZA	TAP SCREW	M2.6 x 8mm(x4)	
29	LV44209-001A	WASHER SCREW	(x2)	
30	LV44603-003A	LASER CAUTION		
31	QAL1105-001	CD TRAMECHA		

Electrical parts list

Power board

Block No. [0][1]

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
IC300	R2A15908SP-X	VOLUME IC			D3001	MA111-X	SI DIODE		
IC310	NJM4565E-X	IC			D3810	MA111-X	SI DIODE		
IC330	NJM4565E-X	IC			D3811	MA111-X	SI DIODE		
IC331	IMX9-W	PAIR TRANSISTOR			D7089	MA8033-X	Z DIODE		
IC332	IMX9-W	PAIR TRANSISTOR			D7201	MA111-X	SI DIODE		
IC341	NJM4565E-X	IC			D7300	MA8047/M/-X	Z DIODE		
IC342	RT3CLLM/EF/-X	TRANSISTOR			D7301	1N4003S-T5	SI DIODE		
IC350	NJM4565E-X	IC		68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	D7302	1N4003S-T5	SI DIODE		
IC360	NJM4565E-X	IC			D7501	MA8120/M/-X	Z DIODE		
IC361	IMX9-W	PAIR TRANSISTOR			D7503	MA111-X	SI DIODE		
IC362	RT3CLLM/EF/-X	TRANSISTOR			D7601	MC2836-X	DIODE		
IC700	M3030RFAPFP	MICON IC			D7602	MC2836-X	DIODE		
IC730	LB1641	IC			D7607	MA8082/M/-X	Z DIODE		
IC740	S-24CS04AFJ-G-X	IC			D7608	MA8043/M/-X	Z DIODE		
IC750	MM3235AF-X	TRANSISTOR			D7609	MA111-X	SI DIODE		
IC791	PQ090RDC1SZF	IC			D7902	SK14-GA-X	DIODE		
IC792	SI-8050S	IC	SW Regulator		D7903	SK14-GA-X	DIODE		
IC901	PT6315	IC			D7904	SK14-GA-X	DIODE		
IC910	GP1UE281XKC1	IR DETECT			D7905	FMB-24	FUSEIODE		
IC940	NJM4565E-X	IC			D7906	SK14-GA-X	DIODE		
Q700	KTC3265/Y/-X	TRANSISTOR			D7907	FR104S-T5	FR DIODE		
Q701	KRC102S-X	DIGI TRANSISTOR			D7908	MA8024-X	Z DIODE		
Q702	KRC102S-X	DIGI TRANSISTOR			D7910	1N4003S-T5	SI DIODE		
Q3000	RT6N140C-X	CHIP TR.			D7920	SK14-GA-X	DIODE		
Q3001	RT6N140C-X	CHIP TR.			D9200	SLR-343VC-T	LED		
Q3408	KRA102S-X	DIGI TRANSISTOR			D9254	SELT1E54CM-S	LED		
Q3500	RT6N230C-X	DIGI TRANSISTOR		68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	D9255	SELT1E54CM-S	LED		
Q3501	RT6N230C-X	DIGI TRANSISTOR		68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	C700	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
Q3502	RT6N230C-X	DIGI TRANSISTOR		68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	C701	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
Q3504	KRA102S-X	DIGI TRANSISTOR		68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	C702	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
Q3505	KRA102S-X	DIGI TRANSISTOR		68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	C711	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
Q3608	KRA102S-X	DIGI TRANSISTOR			C713	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
Q7201	KRC102S-X	DIGI TRANSISTOR			C714	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	68B,68E,6 8EN,68EV
Q7301	KTA1271/OY/-T	TRANSISTOR			C770	QETN1EM-476Z	E CAPACITOR	47uF 25V M	68B,68E,6 8EN,68EV
Q7302	KRC102S-X	DIGI TRANSISTOR			C3002	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
Q7501	KRA102S-X	DIGI TRANSISTOR			C3003	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
Q7502	KRC103S-X	DIGITAL TR			C3004	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
Q7505	KTC3203/OY/-T	TRANSISTOR			C3005	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
Q7600	KRC102S-X	DIGI TRANSISTOR			C3006	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
Q7601	KRC102S-X	DIGI TRANSISTOR			C3007	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
Q7602	KRA102S-X	DIGI TRANSISTOR			C3008	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
Q7901	KRC102S-X	DIGI TRANSISTOR			C3009	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
Q7902	KRC102S-X	DIGI TRANSISTOR			C3011	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q9201	KRC102S-X	DIGI TRANSISTOR			C3013	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
Q9251	KRC102S-X	DIGI TRANSISTOR			C3015	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D700	MA8039-X	Z DIODE			C3016	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D770	MA8033-X	Z DIODE		68B,68E,6 8EN,68EV	C3021	QFNC2AJ-222Z	M CAPACITOR	2200pF 100V J	
D3000	MA111-X	SI DIODE			C3022	QFNC2AJ-683Z	M CAPACITOR	0.068uF 100V J	
					C3023	QFNC2AJ-683Z	M CAPACITOR	0.068uF 100V J	
					C3024	QFNC2AJ-683Z	M CAPACITOR	0.068uF 100V J	
					C3025	QFNC2AJ-683Z	M CAPACITOR	0.068uF 100V J	
					C3026	QFNC2AJ-222Z	M CAPACITOR	2200pF 100V J	
					C3029	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
					C3030	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
					C3031	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
					C3032	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
					C3033	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
					C3050	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
					C3100	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
					C3101	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
					C3102	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
					C3104	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
					C3105	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
					C3106	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
					C3201	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
					C3202	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
					C3204	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
					C3205	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
					C3206	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
					C3300	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
					C3301	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
					C3302	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
					C3303	QETN1CM-107Z	E CAPACITOR	100uF 16V M	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C3304	QETN1HM-106Z	E CAPACITOR	10uF 50V M		C7904	QEZ0778-687	E CAPACITOR	680uF	
C3400	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M		C7905	QEZ0778-687	E CAPACITOR	680uF	
C3401	NDC31HJ-151X	C CAPACITOR	150pF 50V J		C7906	QEZ0778-687	E CAPACITOR	680uF	
C3402	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C7907	QEZ0655-826Z	E CAPACITOR	82uF 16V M	
C3403	QETN1CM-107Z	E CAPACITOR	100uF 16V M		C7908	QEZ0657-396Z	E CAPACITOR	39uF 35V M	
C3404	QETN1CM-107Z	E CAPACITOR	100uF 16V M		C7909	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C3500	QFNC2AJ-223Z	M CAPACITOR	0.022uF 100V J	68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	C7912	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
					C9004	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C3501	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J	68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	C9005	QEK1EM-106Z	E CAPACITOR	10uF 25V M	
					C9091	QEK1HM-476Z	E CAPACITOR	47uF 50V M	
					C9094	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C3502	QEZ0863-336Z	E CAPACITOR	33uF	68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	C9095	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	
					C9096	QEK1HM-475Z	E CAPACITOR	4.7uF 50V M	
					C9097	QEK1HM-475Z	E CAPACITOR	4.7uF 50V M	
C3504	QETN1CM-107Z	E CAPACITOR	100uF 16V M	68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	C9201	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
					C9202	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
					C9254	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
					C9255	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
					C9401	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
					C9402	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
					C9403	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
					C9404	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
					C9407	NCB31HK-331X	C CAPACITOR	330pF 50V K	
					C9408	NCB31HK-331X	C CAPACITOR	330pF 50V K	
					C9409	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3600	QFVF1HJ-124Z	MF CAPACITOR	0.12uF 50V J		C9501	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3601	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J		C9502	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3602	QEZ0863-336Z	E CAPACITOR	33uF		C9503	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C3603	QETN1HM-106Z	E CAPACITOR	10uF 50V M		C9504	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	68B,68E,6 8EN,68EV
C3700	QFVF1HJ-124Z	MF CAPACITOR	0.12uF 50V J						
C3701	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J						
C3702	QEZ0863-336Z	E CAPACITOR	33uF		R700	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
C3800	QFVF1HJ-274Z	MF CAPACITOR	0.27uF 50V J		R701	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C3801	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J		R702	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C3802	QEZ0863-336Z	E CAPACITOR	33uF		R770	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	68B,68E,6 8EN,68EV
C3811	QETN1HM-106Z	E CAPACITOR	10uF 50V M						
C3813	QETN1HM-105Z	E CAPACITOR	1uF 50V M		R771	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
C3900	QFVF1HJ-274Z	MF CAPACITOR	0.27uF 50V J		R772	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
C3901	QFNC2AJ-104Z	M CAPACITOR	0.1uF 100V J		R773	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
C3902	QEZ0863-336Z	E CAPACITOR	33uF		R774	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
C3903	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R775	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
C7095	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R776	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
C7097	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R3001	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
C7100	NDC31HJ-220X	C CAPACITOR	22pF 50V J		R3002	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
C7101	NDC31HJ-220X	C CAPACITOR	22pF 50V J		R3005	NRSA63J-684X	MG RESISTOR	680kΩ 1/16W J	
C7102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R3006	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C7103	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R3007	NRSA63J-684X	MG RESISTOR	680kΩ 1/16W J	
C7104	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R3008	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C7200	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R3009	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
C7201	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R3010	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
C7202	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M		R3011	NRSA63J-133X	MG RESISTOR	13kΩ 1/16W J	
C7203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R3012	NRSA63J-133X	MG RESISTOR	13kΩ 1/16W J	
C7204	QETN1HM-106Z	E CAPACITOR	10uF 50V M		R3013	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C7205	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R3015	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
C7300	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R3016	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
C7301	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R3050	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C7302	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R3051	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C7303	NCB31HK-332X	C CAPACITOR	3300pF 50V K		R3100	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
C7304	NCB31HK-332X	C CAPACITOR	3300pF 50V K		R3101	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C7305	QEZ0863-336Z	E CAPACITOR	33uF		R3102	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C7306	QEZ0863-336Z	E CAPACITOR	33uF		R3103	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C7402	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R3104	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C7403	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R3105	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C7404	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R3107	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C7405	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R3201	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
C7406	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R3202	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C7407	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R3203	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C7408	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R3204	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C7409	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R3205	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C7410	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R3207	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C7411	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R3300	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
C7412	NCB21CK-105X	C CAPACITOR	1uF 16V K		R3301	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C7413	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R3302	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
C7414	NCB21CK-105X	C CAPACITOR	1uF 16V K		R3303	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
C7501	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R3305	NRSA63J-113X	MG RESISTOR	11kΩ 1/16W J	
C7502	QETN1EM-476Z	E CAPACITOR	47uF 25V M		R3306	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
C7901	QEZ0779-477	E CAPACITOR	470uF		R3307	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C7902	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R3400	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
C7903	QEZ0778-687	E CAPACITOR	680uF						

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R3401	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R3800	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R3402	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		R3801	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3403	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J		R3802	NRSA63J-204X	MG RESISTOR	200kΩ 1/16W J	
R3405	NRSA63J-113X	MG RESISTOR	11kΩ 1/16W J		R3803	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J	
R3406	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J		R3804	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R3407	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R3810	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3408	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R3811	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3409	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R3812	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R3410	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R3813	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW
R3411	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R3412	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R3502	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	R3813	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	38J,38C
					R3814	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R3503	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	R3900	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
					R3901	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R3504	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	R3902	NRSA63J-204X	MG RESISTOR	200kΩ 1/16W J	
					R3903	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J	
R3505	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	R3904	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
					R7017	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3506	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	R7019	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7020	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3507	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	R7023	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7024	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3508	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	R7025	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7028	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3509	NRSA63J-363X	MG RESISTOR	36kΩ 1/16W J	68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	R7029	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7030	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3510	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	R7031	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7033	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3600	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J		R7034	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3601	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	R7035	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7036	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3601	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	38J,38C	R7037	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3602	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R7039	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3603	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R7040	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3604	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R7043	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3605	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R7044	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3606	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J		R7045	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3608	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R7047	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3609	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R7048	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3610	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R7049	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3700	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J		R7050	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3701	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	R7052	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7053	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3701	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	38J,38C	R7055	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3702	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R7056	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3703	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R7057	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3704	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R7058	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3705	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R7059	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R3706	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J		R7060	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7061	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7065	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7066	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7067	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7069	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7070	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7071	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7072	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7073	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7074	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7075	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7077	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7078	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7079	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7080	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7081	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7082	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7083	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7084	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7087	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7088	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7089	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7090	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
					R7092	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7094	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7095	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
					R7097	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R7098	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R9401	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7099	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J		R9402	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R7101	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R9403	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R7122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R9404	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R7128	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R9407	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R7130	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R9408	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R7142	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R9409	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R7143	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R9410	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R7144	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R9411	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7147	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R9501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R7149	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L9501	QLL244K-220Z	P COIL	22uH K	68B,68E,6 8EN,68EV
R7152	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		L9502	QLL244K-220Z	P COIL	22uH K	68B,68E,6 8EN,68EV
R7160	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		T700	QQS0423-001	SW TRANSF		
R7162	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	68J,68C,6 8B,68E,68 EN,68EV, 68A,68UJ, 68UW	CN301	QGB2510K2-09	CONNECTOR	B-B (1-9)	
R7164	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN700	QGF1208C1-11	CONNECTOR	FFC/FPC (1-11)	
R7170	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN701	QGF1208C1-13	CONNECTOR	FFC/FPC (1-13)	
R7172	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN702	QGA2001C1-08	CONNECTOR	W-B (1-8)	
R7173	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN703	QGF1208C1-11	CONNECTOR	FFC/FPC (1-11)	
R7185	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN704	QGB2510K2-08	CONNECTOR	B-B (1-8)	
R7186	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN705	QGD2504C1-05Z	CONNECTOR	(1-5)	
R7194	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN706	QGA2501C1-03	CONNECTOR	W-B (1-3)	
R7195	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN707	QGF1208C1-11	CONNECTOR	FFC/FPC (1-11)	68J,68C,6 8A,68UJ,6 8UW,38J, 38C
R7197	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN707	QGF1208C1-15	CONNECTOR	FFC/FPC (1-15)	68B,68E,6 8EN,68EV
R7204	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		CN708	QGF1040C1-19	CONNECTOR	FFC/FPC (1-19)	
R7205	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		CN709	QGF1040C1-05	CONNECTOR	FFC/FPC (1-5)	
R7206	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN901	QGF1208F1-11	CONNECTOR	FFC/FPC (1-11)	
R7300	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	68J,68C,3 8J,38C	CN920	QGF1208F1-13	CONNECTOR	FFC/FPC (1-13)	
R7300	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	68A	CN951	QGD2504C1-04Z	CONNECTOR	(1-4)	
R7300	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	68UJ	EP700	E409182-001SM	GRAND TERMINAL		
R7300	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	68UW	FL900	QLF0193-001	FL TUBE		
R7301	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	68B,68E,6 8EN,68EV ,68A,68UJ ,68UW	FW700	QJK009-061901-E	SIN CR C-B WIRE		
R7302	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		FW920	QUM024-09DGZ4-E	FLAT WIRE		
R7303	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J		FW941	QUM155-09DGZ4-E	FLAT WIRE		
R7304	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J		J940	QNS0188-001	JACK		
R7305	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J		J950	QNS0188-001	JACK		
R7309	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		JS920	QSW1060-001	ROTARY SW		
R7310	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		K7400	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7311	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K7401	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7312	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J		K7402	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7400	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		K7403	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7401	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K7404	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7501	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J		K7405	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7502	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K7406	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7503	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J		K7407	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R7505	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		K9401	NQR0627-004X	FERRITE		
R7600	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K9402	NQR0627-004X	FERRITE		
R7901	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J		K9403	NQR0627-004X	FERRITE		
R7903	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J		K9404	NQR0627-004X	FERRITE		
R7904	QRK126J-101X	UNF C RESISTOR	100Ω 1/2W J		K9405	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R9001	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J		K9501	QQR0621-001Z	FERRITE BEADS		68B,68E,6 8EN,68EV
R9002	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		S9051	QSW0683-001Z	PUSH SW		
R9003	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		S9052	QSW0683-001Z	PUSH SW		
R9004	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		S9053	QSW0683-001Z	PUSH SW		
R9005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		S9054	QSW0683-001Z	PUSH SW		
R9051	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J		S9055	QSW0683-001Z	PUSH SW		
R9052	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		S9056	QSW0683-001Z	PUSH SW		
R9053	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J		S9057	QSW0683-001Z	PUSH SW		
R9054	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J		S9221	QSW0683-001Z	PUSH SW		
R9055	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J		S9222	QSW0683-001Z	PUSH SW		
R9056	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		S9223	QSW0683-001Z	PUSH SW		
R9201	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		S9224	QSW0683-001Z	PUSH SW		
R9221	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J		S9225	QSW0683-001Z	PUSH SW		
R9222	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		S9226	QSW0683-001Z	PUSH SW		
R9223	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J		S9227	QSW0683-001Z	PUSH SW		
R9224	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J		X7100	QAX0711-002Z	CRYSTAL	8.000000MHz	
R9225	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J						
R9226	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J						
R9257	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J						
R9258	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						
R9259	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J						
R9260	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J						

Main board

Block No. [0][2]

Symbol No.	Part No.	Part Name	Description	Local
IC501	TDA8920BJ/N2	POWER IC		68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
IC510	TDA8920BJ/N2	POWER IC		
IC560	74HCU04PW-X	IC		
IC561	HEF4013BT-X	IC		
IC570	RT3CLLM/EF-X	TRANSISTOR		
Q5100	RT6N230C-X	DIGI TRANSISTOR		
Q5600	KRC101S-X	TRANSISTOR		
D5120	MA111-X	SI DIODE		
D5130	MA111-X	SI DIODE		
D5131	MA111-X	SI DIODE		
D5198	MA111-X	SI DIODE		
D5398	MA111-X	SI DIODE		68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
D5601	MA111-X	SI DIODE		
D5602	MA111-X	SI DIODE		
D5701	MA111-X	SI DIODE		
D5801	MC2838-X	DIODE		
D5802	MC2838-X	DIODE		68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
D5803	MA8033-X	Z DIODE		
D5901	MC2838-X	DIODE		
C5001	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5002	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5005	QETM1VM-228	E CAPACITOR	2200uF 35V M	
C5006	QETM1VM-228	E CAPACITOR	2200uF 35V M	
C5009	QETN1VM-477Z	E CAPACITOR	470uF 35V M	
C5010	QETN1VM-477Z	E CAPACITOR	470uF 35V M	
C5011	QETN1VM-477Z	E CAPACITOR	470uF 35V M	
C5012	QETN1VM-477Z	E CAPACITOR	470uF 35V M	
C5091	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
C5094	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C5095	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C5096	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C5097	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C5098	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
C5099	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
C5101	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C5102	NCB31CK-474X	C CAPACITOR	0.47uF 16V K	
C5103	NCB31CK-474X	C CAPACITOR	0.47uF 16V K	
C5106	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5107	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5108	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C5109	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C5110	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5111	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5112	NCZ1061-104X	C CAPACITOR	0.1uF 100V K	
C5113	QETN1JM-476Z	E CAPACITOR	47uF 63V M	
C5114	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C5116	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5127	QFVF1HJ-684Z	MF CAPACITOR	0.68uF 50V J	
C5128	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5198	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C5201	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C5202	NCB31CK-474X	C CAPACITOR	0.47uF 16V K	
C5203	NCB31CK-474X	C CAPACITOR	0.47uF 16V K	
C5206	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5207	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5209	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C5210	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5211	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5212	NCZ1061-104X	C CAPACITOR	0.1uF 100V K	
C5214	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C5227	QFVF1HJ-684Z	MF CAPACITOR	0.68uF 50V J	
C5228	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C5301	NDC31HJ-221X	C CAPACITOR	220pF 50V J	68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
C5302	NCB31CK-474X	C CAPACITOR	0.47uF 16V K	68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
C5303	NCB31CK-474X	C CAPACITOR	0.47uF 16V K	68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
C5306	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
C5307	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
C5308	NDC31HJ-221X	C CAPACITOR	220pF 50V J	68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
C5309	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
C5310	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
C5311	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
C5312	NCZ1061-104X	C CAPACITOR	0.1uF 100V K	68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
C5313	QETN1JM-476Z	E CAPACITOR	47uF 63V M	68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
C5314	NDC31HJ-471X	C CAPACITOR	470pF 50V J	68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
C5316	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW
C5327	QFVF1HJ-684Z	MF CAPACITOR	0.68uF 50V J	68J,68C,68 B,68E,68E N,68EV,68 A,68UJ,68 UW

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C5328	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW	R5002	NRS144J-100X	MG RESISTOR	10Ω 1/4W J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
C5398	QETN1HM-106Z	E CAPACITOR	10uF 50V M	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW	R5003	NRS144J-100X	MG RESISTOR	10Ω 1/4W J	
C5401	NDC31HJ-221X	C CAPACITOR	220pF 50V J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW	R5004	NRS144J-100X	MG RESISTOR	10Ω 1/4W J	
C5406	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW	R5101	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
C5407	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW	R5102	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
C5409	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW	R5103	NRS144J-100X	MG RESISTOR	10Ω 1/4W J	
C5410	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW	R5128	QRL01DJ-220X	OMF RESISTOR	22Ω 1W J	
C5411	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW	R5198	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C5412	NCZ1061-104X	C CAPACITOR	0.1uF 100V K	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW	R5199	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
C5414	NDC31HJ-471X	C CAPACITOR	470pF 50V J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW	R5201	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
C5427	QFVF1HJ-684Z	MF CAPACITOR	0.68uF 50V J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW	R5202	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
C5428	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW	R5203	NRS144J-100X	MG RESISTOR	10Ω 1/4W J	
C5601	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R5228	QRL01DJ-220X	OMF RESISTOR	22Ω 1W J	
C5602	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R5299	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
C5603	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R5301	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
C5604	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R5302	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
C5605	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R5303	NRS144J-100X	MG RESISTOR	10Ω 1/4W J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
C5606	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R5348	QRL01DJ-220X	OMF RESISTOR	22Ω 1W J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
C5607	NDC31HJ-470X	C CAPACITOR	47pF 50V J		R5398	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
C5608	NDC31HJ-470X	C CAPACITOR	47pF 50V J		R5399	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
C5609	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R5403	NRS144J-100X	MG RESISTOR	10Ω 1/4W J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
C5610	QETN1CM-107Z	E CAPACITOR	100uF 16V M		R5428	QRL01DJ-220X	OMF RESISTOR	22Ω 1W J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
C5611	NDC31HJ-101X	C CAPACITOR	100pF 50V J		R5499	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
C5612	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R5600	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C5701	QETN1HM-106Z	E CAPACITOR	10uF 50V M		R5601	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
C5805	QETN1EM-476Z	E CAPACITOR	47uF 25V M		R5602	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
C5901	QETN1EM-476Z	E CAPACITOR	47uF 25V M		R5603	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
C5902	QETN1EM-476Z	E CAPACITOR	47uF 25V M		R5604	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R5001	NRS144J-100X	MG RESISTOR	10Ω 1/4W J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW	R5605	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
					R5606	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
					R5607	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
					R5611	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
					R5701	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
					R5702	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
					R5703	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
					R5704	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW

Symbol No.	Part No.	Part Name	Description	Local
R5705	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5706	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R5805	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
R5805	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	38J,38C
R5806	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
R5806	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	38J,38C
R5807	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
R5808	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
R5809	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
△R5888	QRZ9005-470X	FUSI RESISTOR	47Ω	
△R5889	QRZ9005-470X	FUSI RESISTOR	47Ω	
R5901	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R5902	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R5903	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R5904	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R5999	QRJ146J-820X	UNF C RESISTOR	82Ω 1/4W J	
L5101	QQR1820-001	CHOKO COIL		
L5201	QQR1820-001	CHOKO COIL		
L5301	QQR1820-001	CHOKO COIL		68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
L5401	QQR1820-001	CHOKO COIL		68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
CN501	QGB2510J1-08	CONNECTOR	B-B (1-8)	
CN502	QGB2510J1-09	CONNECTOR	B-B (1-9)	
EP502	QNZ0136-001Z	EARTH PLATE		
FW500	QJK015-041014-E	WIRE		
FW555	WJK0261-001A-E	WIRE		68UJ,68UW
J5100	QNB0315-001	SPEAKER		68J,68C,68B,68E,68E N,68EV,68A,68UJ,68UW
J5100	QNB0314-001	SPEAKER		38J,38C
J5555	QSW1190-001	B TO B CONNE		68UJ,68UW
K5001	QQR0621-001Z	FERRITE BEADS		
K5002	QQR0621-001Z	FERRITE BEADS		
K5601	QQR0621-001Z	FERRITE BEADS		
K5612	QLL244K-220Z	P COIL	22uH K	
PP503	QNZ0104-001	POST PIN		68B,68E,68EN,68EV
RY510	QSK0194-001	RELAY		
RY520	QSK0194-001	RELAY		
WC501	QZW0112-001	WIRE CLAMP		
X5601	QAX0937-001	CRYSTAL		
X5602	QAX0936-001	CRYSTAL		

iPod jack board

Block No. [0][3]

Symbol No.	Part No.	Part Name	Description	Local
R9801	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R9802	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R9803	NRSA63J-753X	MG RESISTOR	75kΩ 1/16W J	
R9804	NRSA63J-753X	MG RESISTOR	75kΩ 1/16W J	
R9805	NRSA63J-564X	MG RESISTOR	560kΩ 1/16W J	
CN912	NNZ0186-001	CONNECTOR		
CN914	QGA1002F1-08X	CONNECTOR	W-B (1-8)	
K9801	NQR0502-001X	FERRITE BEADS		
K9802	NQR0502-001X	FERRITE BEADS		
K9803	NQR0022-001X	FERRITE BEADS		
K9804	NQR0022-001X	FERRITE BEADS		
K9805	NQR0022-001X	FERRITE BEADS		
K9806	NQR0022-001X	FERRITE BEADS		
K9807	NQR0022-001X	FERRITE BEADS		
K9808	NQR0022-001X	FERRITE BEADS		

CD servo board [FMU-MJ4-1M]

Block No. [0][4]

Symbol No.	Part No.	Part Name	Description	Local
IC201	LA6242H-X	IC		
IC301	MN6627971DA	IC		
IC302	S-24CS16A0I-G-X	IC		
IC304	MM3233DF-X	IC		
IC801	MN103SFB5KWM1	IC(MCU)		
IC802	MM1565AF-X	IC		
Q301	ISA1530AC1/QR/X	TRANSISTOR		
Q801	RT1N141C-X	DIGI TRANSISTOR		
D302	MA2SD31-X	SB DIODE		
C101	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C102	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C103	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C205	NCB31HK-122X	C CAPACITOR	1200pF 50V K	
C206	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C207	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C208	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C211	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C218	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C219	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C220	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C221	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C301	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C304	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C305	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C306	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C309	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C310	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C312	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C314	NCB31CK-154X	C CAPACITOR	0.15uF 16V K	
C315	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C316	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C319	NCB31CK-334X	C CAPACITOR	0.33uF 16V K	
C320	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C321	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C322	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C324	NCB31CK-334X	C CAPACITOR	0.33uF 16V K	
C325	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C326	NCB31CK-823X	C CAPACITOR	0.082uF 16V K	
C327	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C328	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C329	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C330	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	
C331	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C332	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C333	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C334	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		R353	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C337	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R356	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C338	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		R357	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C339	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M		R358	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
C340	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R359	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
C341	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R360	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C342	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R363	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C343	NDC31HJ-270X	C CAPACITOR	27pF 50V J		R364	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C344	NDC31HJ-270X	C CAPACITOR	27pF 50V J		R367	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
C361	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R368	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C376	NCB31CK-224X	C CAPACITOR	0.22uF 16V K		R369	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C377	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R376	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R377	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R381	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
C801	NDC31HJ-300X	C CAPACITOR	30pF 50V J		R382	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
C802	NDC31HJ-270X	C CAPACITOR	27pF 50V J		R383	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
C803	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R701	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C804	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R801	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
C805	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R802	NRSA63J-200X	MG RESISTOR	20Ω 1/16W J	
C806	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R803	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C807	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R805	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
C809	NCB20JK-106X	C CAPACITOR	10uF 6.3V K		R806	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
C811	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R807	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C814	NCB21AK-225X	C CAPACITOR	2.2uF 10V K		R808	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C815	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M		R809	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C816	NDC31HJ-471X	C CAPACITOR	470pF 50V J		R810	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C817	NCB21CK-105X	C CAPACITOR	1uF 16V K		R814	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R101	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R815	NRSA63J-200X	MG RESISTOR	20Ω 1/16W J	
R102	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J		R816	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R201	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J		R817	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R202	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		R819	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R203	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		R820	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R204	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J		R821	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R205	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		L801	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R206	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		CN101	QGF0501F8-15X	CONNECTOR	FFC/FPC (1-15)	
R207	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		CN701	QGF1036F2-19	CONNECTOR	FFC/FPC (1-19)	
R208	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		CN702	QGF1036F2-08	CONNECTOR	FFC/FPC (1-8)	
R209	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		CN801	QGF1036F2-07	CONNECTOR	FFC/FPC (1-7)	
R210	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		CN802	QGA2001F6-05X	CONNECTOR	W-B (1-5)	
R211	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J		K701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R212	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J		K702	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R213	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		K703	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R214	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		K704	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R221	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		K705	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R222	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		K706	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R223	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J		K707	NQR0022-002X	FERRITE BEADS		
R224	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J		K708	NQR0022-002X	FERRITE BEADS		
R301	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J		K709	NQR0022-002X	FERRITE BEADS		
R303	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J		K801	NQR0360-002X	COIL		
R304	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J		K802	NQR0360-002X	COIL		
R308	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		SW601	QSW1047-002	PUSH SWITCH		
R309	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		X301	NAX0375-001X	CRYSTAL	16.9344MHz	
R310	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		X801	QAX0724-001Z	CRYSTAL	12.000000MHz	
R311	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R312	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J						
R313	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J						
R314	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J						
R315	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R319	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
R320	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
R321	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
R322	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J						
R323	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J						
R324	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J						
R325	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R330	NRSA02F-100X	MG RESISTOR	10Ω 1/10W F						
R331	NRSA02F-100X	MG RESISTOR	10Ω 1/10W F						
R336	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J						
R338	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R339	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R341	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J						
R343	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R346	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J						
R348	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J						
R350	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						
R351	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R352	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J						

Loader board [FLM-J6-2M]

Block No. [0][5]

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

CD module board [FMU-VK1-2M]

Block No. [0][6]

Symbol No.	Part No.	Part Name	Description	Local
IC201	LA6242H-X	IC		
IC301	MN6627971DB	IC		
IC302	S-24CS16A0I-G-X	IC		
IC304	MM3233DF-X	IC		
Q301	ISA1530AC1/QR/X	TRANSISTOR		
C101	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C102	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C103	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C205	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C206	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C207	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C208	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C211	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C218	NEAF1CM-107X	E CAPACITOR	100uF 16V M	
C219	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C220	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C221	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C301	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C304	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C305	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C306	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C309	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C310	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C312	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C314	NCB31CK-154X	C CAPACITOR	0.15uF 16V K	
C315	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C316	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C319	NCB31CK-334X	C CAPACITOR	0.33uF 16V K	
C320	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C321	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C322	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C324	NCB31CK-334X	C CAPACITOR	0.33uF 16V K	
C325	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C326	NCB31CK-823X	C CAPACITOR	0.082uF 16V K	
C327	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C328	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C329	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C330	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	
C331	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C332	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C333	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C334	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C337	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C338	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C339	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C340	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C341	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C342	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C343	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C344	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C361	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C376	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C377	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
R101	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R201	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R202	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R203	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R204	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R205	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R206	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R207	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R208	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R209	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R210	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R211	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R212	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R213	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R214	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	

Symbol No.	Part No.	Part Name	Description	Local
R221	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R222	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R223	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R224	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
R303	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R304	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R319	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R320	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R321	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R322	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R323	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R324	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R325	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R326	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R327	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R328	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R329	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R330	NRSA02F-100X	MG RESISTOR	10Ω 1/10W F	
R331	NRSA02F-100X	MG RESISTOR	10Ω 1/10W F	
R336	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R338	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R339	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R341	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R343	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R346	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R348	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R350	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R352	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R353	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R356	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R357	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R358	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R359	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R360	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R363	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R364	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R367	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R368	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R376	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R377	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R381	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R382	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R384	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R701	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
CN101	QGF1016F8-16W	CONNECTOR	FFC/FPC (1-16)	
CN102	QGA2001F6-06X	CONNECTOR	W-B (1-6)	
CN701	QGF1016F8-19W	CONNECTOR	FFC/FPC (1-19)	
K701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K702	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K703	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K704	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K705	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K706	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
X301	NAX0375-001X	CRYSTAL	16.9344MHz	

CD loading switch board [FMU-VK1-2M]

Block No. [0][7]

Symbol No.	Part No.	Part Name	Description	Local
CN1	QGF1040F1-05	CONNECTOR	FFC/FPC (1-5)	
CN1	or QGF1036F2-05	CONNECTOR	FFC/FPC (1-5)	
S1	QSW1074-002	DETECT SWITCH		

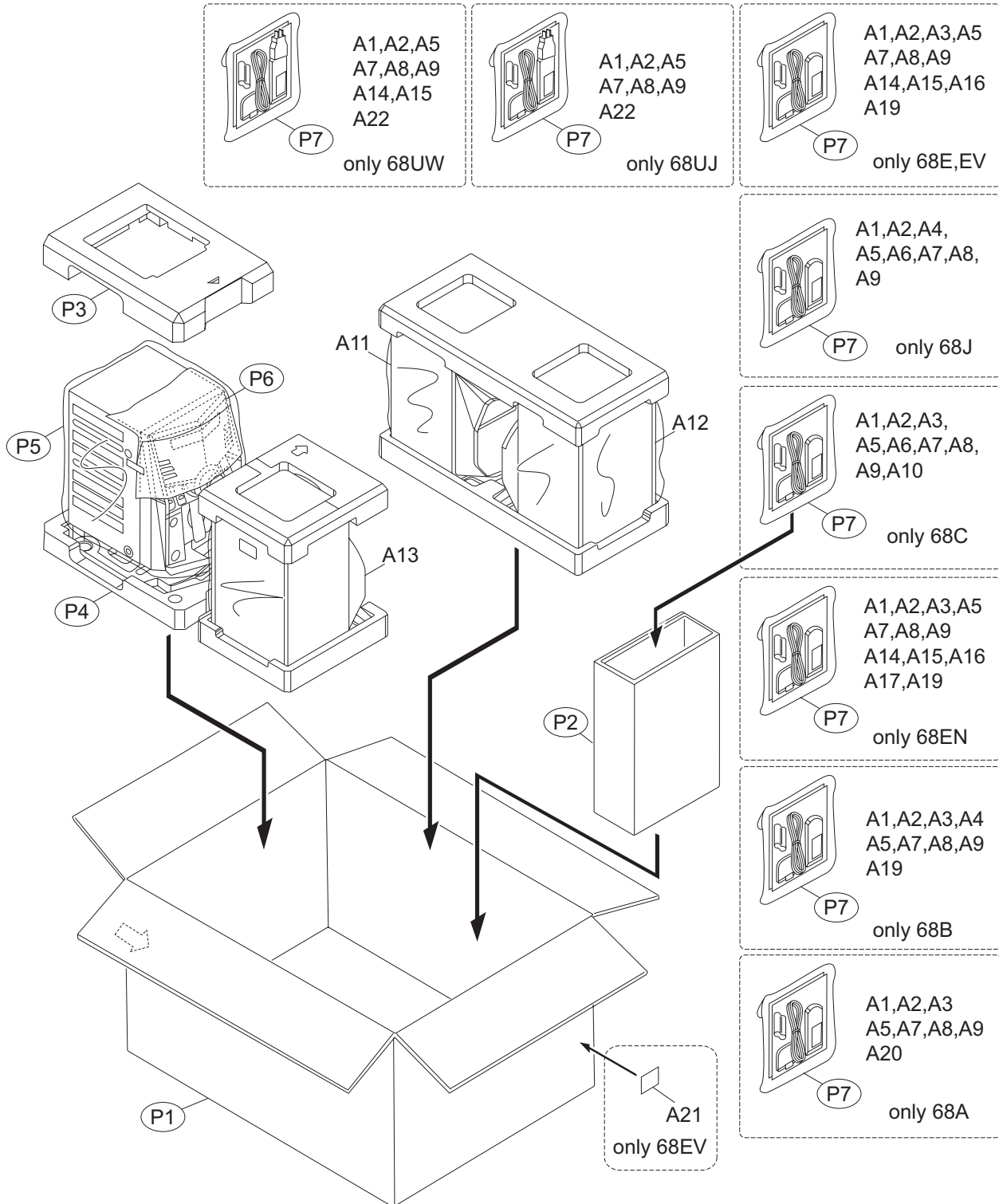
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Packing materials and accessories parts list

Only KC68

Block No. M 3 M M

No additional / supplemental order of WARRANTY CARDS are available.



The parts without symbol number are not service.

Packing and Accessories

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

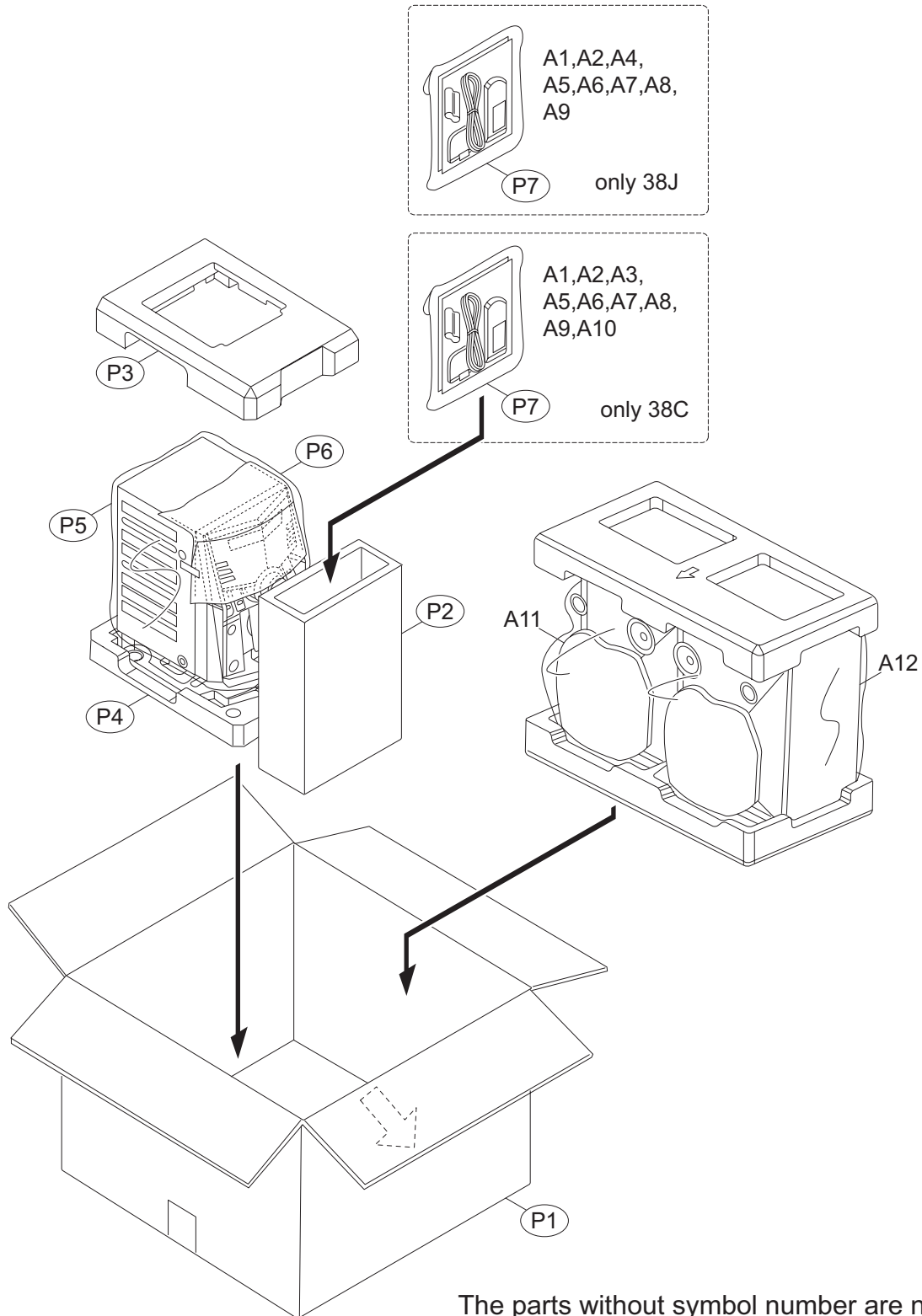
△ Symbol No.	Part No.	Part Name	Description	Local
A 1	GVT0243-001A	INST BOOK	ENG	68J,68C
A 1	GVT0243-003A	INST BOOK	ENG	68B
A 1	GVT0243-004A	INST BOOK	GER	68E
A 1	GVT0243-008A	INST BOOK	SPA	68EN
A 1	GVT0243-013A	INST BOOK	HUN	68EV
A 1	GVT0243-016A	INST BOOK	ENG	68A,68UJ,68UW
A 2	GVT0252-001A	CAUTION SHEET		68J,68C,68B,68A,68UJ,68UW
A 2	GVT0252-002A	CAUTION SHEET		68E,68EN
A 2	GVT0252-003A	CAUTION SHEET		68EV
A 3	-----	WARRANTY CARD	BT-52008-1	68C
A 3	-----	WARRANTY CARD	BT-54035-1	68B,68E,68EN,68EV
A 3	-----	WARRANTY CARD	BT-56016-1	68A
A 4	BT-51041-1	REGIST CARD	BT-51041-1	68J
A 4	VNA3000-204	REGIST CARD		68B
A 5	or QAL0014-003	AM LOOP ANT		
A 5	QAL0476-003	AM LOOP ANT		
A 6	LVT1701-001A	SAFETY SHEET		68J,68C
A 7	RM-SMXKC68A	REMOCON		68J,68C,68A,68UJ,68UW
A 7	RM-SMXKC68R	REMOCON		68B,68E,68EN,68EV
A 8	QAL0457-001	ANT.WIRE		
A 9	-----	BATTERY	1.5V(x2)	
A 10	GVT0243-002B	INST BOOK	FRE	68C
A 11	MXKC68-SPBOX-L	SPK WITH BOX-L		
A 12	MXKC68-SPBOX-R	SPK WITH BOX-R		
A 13	GV31162-001A	SPK WITH BOX-W		
A 14	GVT0243-005A	INST BOOK	FRE	68E
A 14	GVT0243-009A	INST BOOK	SWE	68EN
A 14	GVT0243-014A	INST BOOK	POL	68EV
A 14	GVT0243-017A	INST BOOK	SPA	68UW
A 15	GVT0243-006A	INST BOOK	DUT	68E
A 15	GVT0243-010A	INST BOOK	FIN	68EN
A 15	GVT0243-015A	INST BOOK	CZE	68EV
A 15	GVT0243-018A	INST BOOK	POR	68UW
A 16	GVT0243-007A	INST BOOK	ITA	68E
A 16	GVT0243-011A	INST BOOK	DAN	68EN
A 16	GVT0243-019A	INST BOOK	RUS	68EV
A 17	GVT0243-012A	INST BOOK	POR	68EN
A 19	LVT1923-001A	CAUTION SHEET		68B,68E,68EN,68EV
A 20	-----	WARRANTY CARD	BT-56017-1	68A
A 21	E409393-004	GOST LABEL		68EV
△ A 22	QAM0112-002	CONVERSION PLUG		68UJ,68UW
P 1	GV31166-001A	CARTON		68J,68C,68UJ,68UW
P 1	GV31166-004A	CARTON		68B,68E,68EN,68EV
P 1	GV31166-003A	CARTON		68A
P 2	GV31168-001A	CARTON SPACER		68J,68C,68UJ,68UW
P 2	GV31168-002A	CARTON SPACER		68B,68E,68EN,68EV,68A
P 3	GV10412-001A	CUSHION (TOP)		68J,68C,68UJ,68UW
P 3	GV10421-001A	CUSHION (TOP)		68B,68E,68EN,68EV,68A
P 4	GV10413-001A	CUSHION (BOTTOM)		68J,68C,68UJ,68UW
P 4	GV10422-001A	CUSHION (BOTTOM)		68B,68E,68EN,68EV,68A
P 5	QPC06506515PB	POLY BAG	65cm x 65cm	
P 6	GV40168-010A	SHEET		
P 7	QPC02503515PB	POLY BAG	25cm x 35cm	

Packing materials and accessories parts list

Only KC38

Block No. M 4 M M

No additional / supplemental order of WARRANTY CARDS are available.



The parts without symbol number are not service.

Packing and Accessories

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

△ Symbol No.	Part No.	Part Name	Description	Local
A 1	GVT0243-001A	INST BOOK	ENG	
A 2	GVT0252-001A	CAUTION SHEET		
A 3	-----	WARRANTY CARD	BT-52008-1	38C
A 4	-----	REGIST CARD	BT-51041-1	38J
A 5	or QAL0014-003	AM LOOP ANT		
A 5	QAL0476-003	AM LOOP ANT		
A 6	LVT1701-001A	SAFETY SHEET		
A 7	RM-SMXKC38A	REMOCON		
A 8	QAL0457-001	ANT.WIRE		
A 9	-----	BATTERY	1.5V(x2)	
A 10	GVT0243-002B	INST BOOK	FRE	38C
A 11	MXKC38J-SPBOX-L	SPK WITH BOX-L		
A 12	MXKC38J-SPBOX-R	SPK WITH BOX-R		
P 1	GV31167-001A	CARTON		
P 2	GV31168-003A	CARTON SPACER		
P 3	GV10412-001A	CUSHION (TOP)		
P 4	GV10413-001A	CUSHION (BOTTOM)		
P 5	QPC06506515PB	POLY BAG	65cm x 65cm	
P 6	GV40168-010A	SHEET		
P 7	QPC02503515PB	POLY BAG	25cm x 35cm	