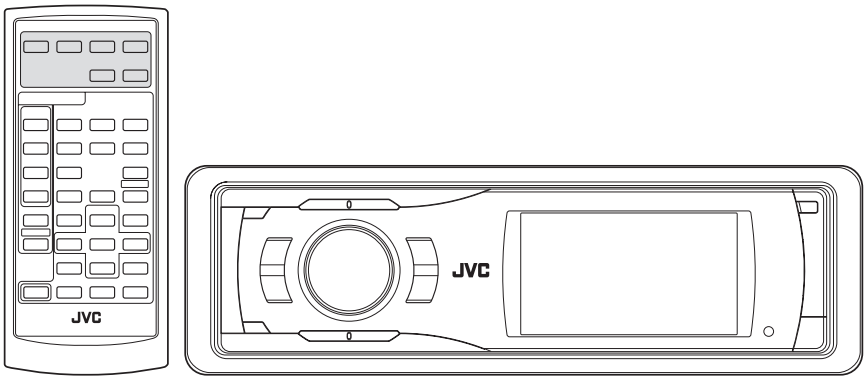
JVC

SERVICE MANUAL

DVD/CD RECEIVER

KD-AVX11J,KD-AVX11E, KD-AVX11EU,KD-AVX11EE, KD-AVX11U,KD-AVX11UN, KD-AVX11UT,KD-AVX11A



for Northern America for Europe

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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No.MA304
2007/3

SPECIFICATION

For Northern America

AMPLIFIER		
Power Output		20 W RMS × 4 Channels at 4 Ω and [< or =] 1% THD+N
Signal-to-Noise Ratio		70 dB (reference: 1 W into 4 Ω)
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Equalizer Control Range	Frequencies	60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.5 kHz, 6.3 kHz, 15 kHz
	Level	±10 dB
Audio Output Level LINE OUT(FRONT/REAR)/ SUBWOOFER	Line-Out Level/Impedance	2.5 V/20 kΩ load (full scale)
	Output Impedance	1 kΩ
Color System		NTSC
Video Output (composite)		1 Vp-p/75 Ω
Other Terminals	Input	LINE IN, VIDEO IN, Antenna input
	Output	VIDEO OUT, DIGITAL OUT (optical)
	Others	CD changer, OE REMOTE
FM/AM TUNER		
Frequency Range	FM (with channel interval set to 100 kHz or 200 kHz)	87.5 MHz to 107.9 MHz
	FM (with channel interval set to 50 kHz)	87.5 MHz to 108.0 MHz
	AM (with channel interval set to 10 kHz)	530 kHz to 1 710 kHz
	AM (with channel interval set to 9 kHz)	531 kHz to 1 602 kHz
FM Tuner	Usable Sensitivity	11.3 dBf (1.0 μV/75 Ω)
	50 dB Quieting Sensitivity	16.3 dBf (1.8 μV/75 Ω)
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	35 dB
AM Tuner	Sensitivity/Selectivity	20 μV/35 dB
DVD/CD		
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Frequency Response	DVD, fs=48 kHz	16 Hz to 22 000 Hz
	DVD, fs=96 kHz	16 Hz to 22 000 Hz
	VCD/CD	16 Hz to 20 000 Hz
Dynamic Range		93 dB
Signal-to-Noise Ratio		95 dB
Wow and Flutter		Less than measurable limit
MONITOR		
Screen Size		2.7 inch wide liquid crystal display
Number of Pixel		123 200 pixels: 560 (horizontal) × 220 (vertical)
Drive Method		TFT (Thin Film Transistor) active matrix format
Color System		PAL/NTSC
Aspect Ratio		16:9 (wide)
Allowable Storage Temperature		-10°C to +60°C (14°F to 140°F)
Allowable Operating Temperature		0°C to +40°C (32°F to 104°F)
GENERAL		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to +40°C (32°F to 104°F)
Dimensions (W × H × D)	Installation Size (approx.)	182 mm × 52 mm × 160 mm (7-3/16" × 2-1/16" × 6-5/16")
	Panel Size (approx.)	188 mm × 58 mm × 14 mm (7-7/16" × 2-5/16" × 5/8")
Mass (approx.)		2.1 kg (4.7 lbs) (excluding accessories)

Design and specifications are subject to change without notice.

For Europe

AMPLIFIER		
Maximum Power Output	Front/Rear	50 W per channel
Continuous Power Output (RMS)	Front/Rear	20 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Equalizer Control Range	Frequencies	60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.5 kHz, 6.3 kHz, 15 kHz
	Level	±10 dB
Signal-to-Noise Ratio		70 dB
Audio Output Level LINE OUT(FRONT/REAR)/ SUBWOOFER	Line-Out Level/Impedance	2.5 V/20 kΩ load (full scale)
	Output Impedance	1 kΩ
Color System		PAL
Video Output (composite)		1 Vp-p/75 Ω
Other Terminals	Input	LINE IN, VIDEO IN, Aerial input
	Output	VIDEO OUT, DIGITAL OUT (optical)
	Others	CD changer, OE REMOTE
FM/AM TUNER		
Frequency Range	FM	87.5 MHz to 108.0 MHz
	AM	(MW) 522 kHz to 1 620 kHz
FM Tuner	Usable Sensitivity	(LW) 144 kHz to 279 kHz
	50 dB Quieting Sensitivity	11.3 dBf (1.0 μV/75 Ω)
	Alternate Channel Selectivity (400 kHz)	16.3 dBf (1.8 μV/75 Ω)
	Frequency Response	65 dB
	Stereo Separation	40 Hz to 15 000 Hz
MW Tuner	Sensitivity/Selectivity	35 dB
LW Tuner	Sensitivity	20 μV/35 dB
DVD/CD		
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Frequency Response	DVD, fs=48 kHz	16 Hz to 22 000 Hz
	DVD, fs=96 kHz	16 Hz to 22 000 Hz
	VCD/CD	16 Hz to 20 000 Hz
Dynamic Range		93 dB
Signal-to-Noise Ratio		95 dB
Wow and Flutter		Less than measurable limit
MONITOR		
Screen Size		2.7 inch wide liquid crystal display
Number of Pixel		123 200 pixels: 560 (horizontal) × 220 (vertical)
Drive Method		TFT (Thin Film Transistor) active matrix format
Color System		PAL/NTSC
Aspect Ratio		16:9 (wide)
Allowable Storage Temperature		-10°C to +60°C
Allowable Operating Temperature		0°C to +40°C
GENERAL		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to +40°C
Dimensions (W × H × D)	Installation Size (approx.)	182 mm × 52 mm × 160 mm
	Panel Size (approx.)	188 mm × 58 mm × 14 mm
Mass (approx.)		2.1 kg (excluding accessories)

Design and specifications are subject to change without notice.

For Eastern Europe

AMPLIFIER		
Maximum Power Output	Front/Rear	50 W per channel
Continuous Power Output (RMS)	Front/Rear	20 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Equalizer Control Range	Frequencies	60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.5 kHz, 6.3 kHz, 15 kHz
	Level	±10 dB
Signal-to-Noise Ratio		70 dB
Audio Output Level LINE OUT(FRONT/REAR)/ SUBWOOFER	Line-Out Level/Impedance	2.5 V/20 kΩ load (full scale)
	Output Impedance	1 kΩ
Color System		PAL
Video Output (composite)		1 Vp-p/75 Ω
Other Terminals	Input	LINE IN, VIDEO IN, Aerial input
	Output	VIDEO OUT, DIGITAL OUT (optical)
	Others	CD changer, OE REMOTE
FM/AM TUNER		
Frequency Range	FM	87.5 MHz to 108.0 MHz
	AM	(MW) 522 kHz to 1 620 kHz (LW) 144 kHz to 279 kHz
FM Tuner	Usable Sensitivity	11.3 dBf (1.0 μV/75 Ω)
	50 dB Quieting Sensitivity	16.3 dBf (1.8 μV/75 Ω)
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	35 dB
MW Tuner	Sensitivity/Selectivity	20 μV/35 dB
LW Tuner	Sensitivity	50 μV
DVD/CD		
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Frequency Response	DVD, fs=48 kHz	16 Hz to 22 000 Hz
	DVD, fs=96 kHz	16 Hz to 22 000 Hz
	VCD/CD	16 Hz to 20 000 Hz
Dynamic Range		93 dB
Signal-to-Noise Ratio		95 dB
Wow and Flutter		Less than measurable limit
MONITOR		
Screen Size		2.7 inch wide liquid crystal display
Number of Pixel		123 200 pixels: 560 (horizontal) × 220 (vertical)
Drive Method		TFT (Thin Film Transistor) active matrix format
Color System		PAL/NTSC
Aspect Ratio		16:9 (wide)
Allowable Storage Temperature		-10°C to +60°C
Allowable Operating Temperature		0°C to +40°C
GENERAL		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to +40°C
Dimensions (W × H × D)	Installation Size (approx.)	182 mm × 52 mm × 160 mm
	Panel Size (approx.)	188 mm × 58 mm × 14 mm
Mass (approx.)		2.1 kg (excluding accessories)

Design and specifications are subject to change without notice.

For Asia and Australia

AMPLIFIER		
Maximum Power Output	Front/Rear	50 W per channel
Continuous Power Output	Front/Rear	20 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Equalizer Control Range	Frequencies	60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.5 kHz, 6.3 kHz, 15 kHz
	Level	±10 dB
Signal-to-Noise Ratio		70 dB
Audio Output Level LINE OUT(FRONT/REAR)/ SUBWOOFER	Line-Out Level/Impedance	2.5 V/20 kΩ load (full scale)
	Output Impedance	1 kΩ
Color System		NTSC/PAL
Video Output (composite)		1 Vp-p/75 Ω
Other Terminals	Input	LINE IN, VIDEO IN, Antenna input
	Output	VIDEO OUT, DIGITAL OUT (optical)
	Others:	CD changer
FM/AM TUNER		
Frequency Range	FM	87.5 MHz to 108.0 MHz
	AM	531 kHz to 1 602 kHz
FM Tuner	Usable Sensitivity	11.3 dBf (1.0 μV/75 Ω)
	50 dB Quieting Sensitivity	16.3 dBf (1.8 μV/75 Ω)
	Alternate Channel Selectivity (400 kHz)	65 dB
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	Stereo Separation	35 dB
AM Tuner	Sensitivity/Selectivity	20 μV/35 dB
DVD/CD		
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Frequency Response	DVD, fs=48 kHz	16 Hz to 22 000 Hz
	DVD, fs=96 kHz	16 Hz to 22 000 Hz
	VCD/CD	16 Hz to 20 000 Hz
Dynamic Range		93 dB
Signal-to-Noise Ratio		95 dB
Wow and Flutter		Less than measurable limit
MONITOR		
Screen Size		2.7 inch wide liquid crystal display
Number of Pixel		123 200 pixels: 560 (horizontal) × 220 (vertical)
Drive Method		TFT (Thin Film Transistor) active matrix format
Color System		NTSC/PAL
Aspect Ratio		16:9 (wide)
Allowable Storage Temperature		-10°C to +60°C
Allowable Operating Temperature		0°C to +40°C
GENERAL		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to +40°C
Dimensions (W × H × D)	Installation Size (approx.)	182 mm × 52 mm × 160 mm
	Panel Size (approx.)	188 mm × 58 mm × 14 mm
Mass (approx.)		2.1 kg (excluding accessories)

Design and specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 Safety Precautions

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

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

1.2 Preventing static electricity

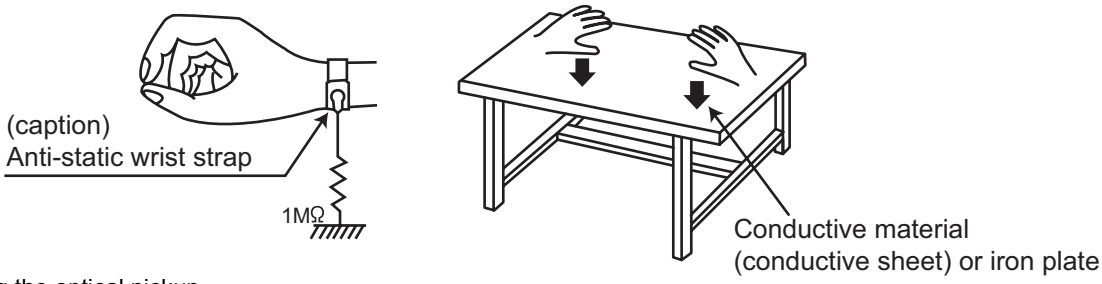
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.2.1 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.

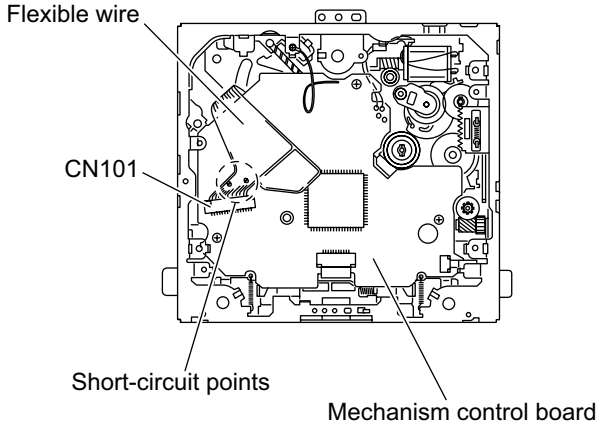
1.3 Handling the traverse unit (optical pickup)

(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.

1.4 Attention when traverse unit is decomposed

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

- Apply solder to the short land before the card wire is disconnected from the connector on the pickup unit.
  (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 after connecting the card wire.



1.5 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.

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.**

(For U.S.A.)
CAUTION : Visible and/or invisible class II laser radiation when open. Do not stare into beam.
(Others)
CAUTION : Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments

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

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

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

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

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

VARO!: Avattaessa olet alttiina nakyvalle ja/tai näkymättömälle luokan 1M lasersateilylle. 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 directamente com instrumentos ópticos.

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

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 级镭射。
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 مفتوحا. 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	ATTENTION	AVISO	VARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視及び/または不可視のクラス1Mレーザー放射が出ます。光学装置で直接見ないでください。 (JPN)	VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG) LV44609-003A

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3
DISASSEMBLY

3.1 Main body

3.1.1 Removing the Side heat sink (Fig.1)

(1) From the left side of the main body, remove the two screws **A** and Two screws **B** attaching the Side heat sink.

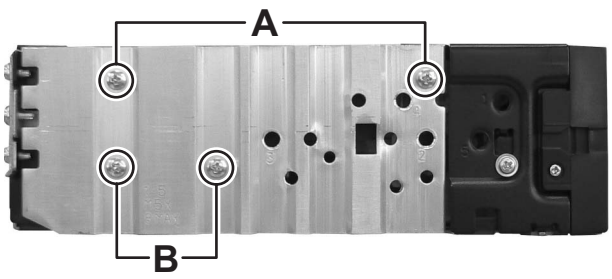


Fig.1

3.1.2 Removing the Top chassis assembly (See Fig.2 to 6)

(1) From the top side of the main body, remove the one screw **C** attaching the Top chassis assembly. (See Fig.2)
(2) From the both sides of the main body, remove the two screws **D** attaching the Top chassis assembly. (See Fig.3 and 4)
(3) From the bottom side of the main body, remove the two screws **E** attaching the Top chassis assembly. (See Fig.5)
(4) From the back side of the main body, remove the four screws **F** attaching the Top chassis assembly. (See Fig.6)
(5) Lift the Top chassis assembly in the direction of the arrow. (See Fig.6)

Fig.2

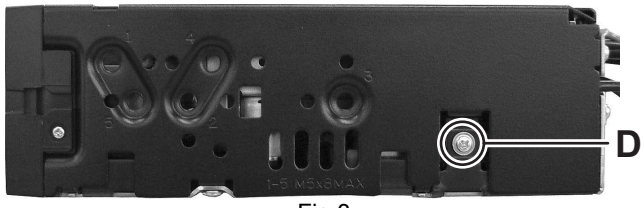


Fig.3

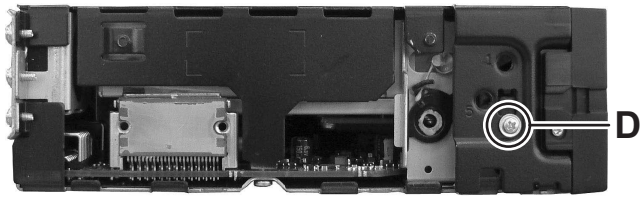


Fig.4

Fig.5

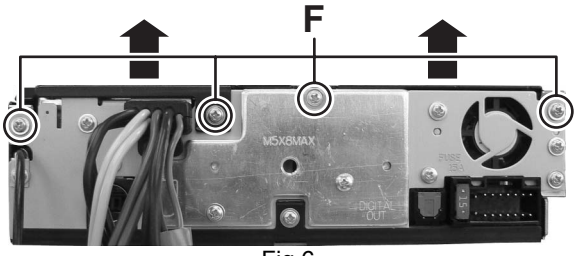


Fig.6

3.1.3 Removing the Front chassis assembly (See Fig.7 and 8)

(1) From the both sides of the Top chassis assembly, remove the two screws **G** attaching the Front chassis assembly. (See Fig.7 and 8)

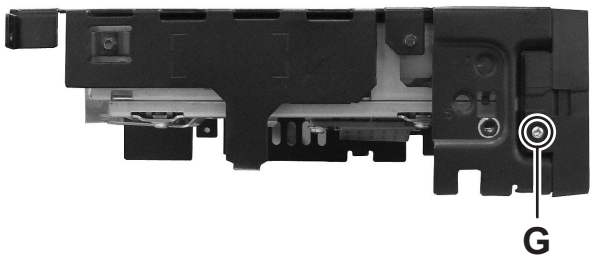


Fig.7

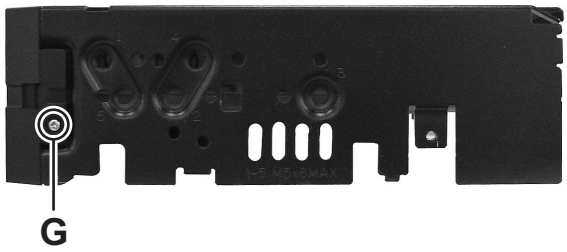


Fig.8

3.1.4 Removing the DVD mechanism assembly (See Fig.9)

(1) From the inside of the Top chassis assembly, remove the three screws **H** attaching the DVD mechanism assembly and take out the DVD mechanism assembly.
(2) From the side of the DVD mechanism assembly, remove the double-stick tape fixing the insulator.
(3) Remove the insulator from the DVD mechanism assembly.

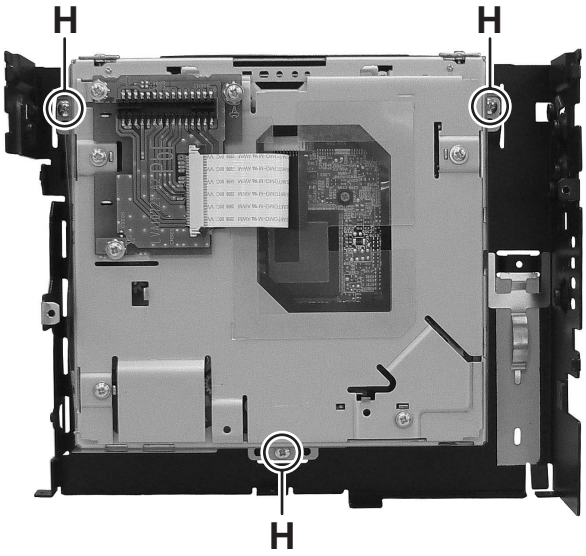


Fig.9

3.1.5 Removing the Connection board assembly (See Fig.10)

(1) From the bottom side of the DVD mechanism assembly, release the lock of the connector CN965 on the Connection board assembly and disconnect the card wire.
(2) Remove the three screws **J** attaching the Connection board assembly on the DVD mechanism assembly. And remove the connection board assembly.

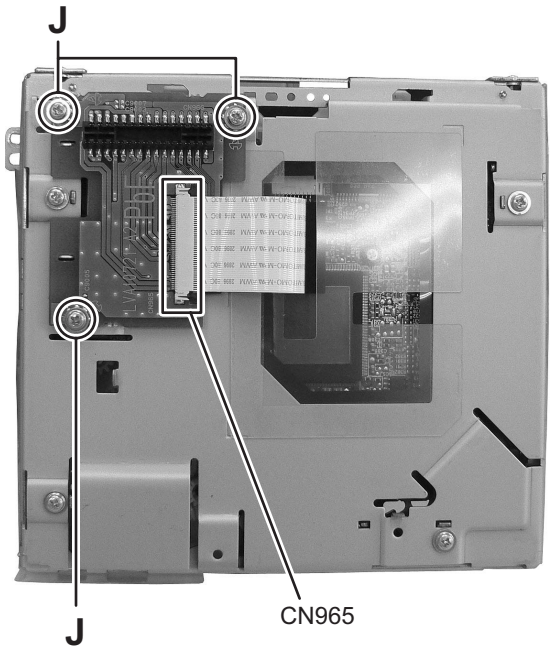


Fig.10

3.1.6 Removing the Rear bracket (See Fig.11 and 12)

(1) Remove the one screw **K** attaching the Antenna cable, remove the one screw **L** attaching the CD-CH jack, remove the one screw **M** attaching the IC bracket, remove the one screw **N** attaching the Digital out jack and remove the two screws **P** attaching the Rear bracket. (See Fig.11)
(2) Remove the three screws **Q** attaching the Wire holder. (See Fig.11)
(3) Disconnect the connector wires from car cables connected to connector CN931, CN311, and CN361 on the Main board assembly. (See Fig.12)
(4) Disconnect the connector wire from Fan connected to connector CN861 on the Main board assembly. (See Fig.12)

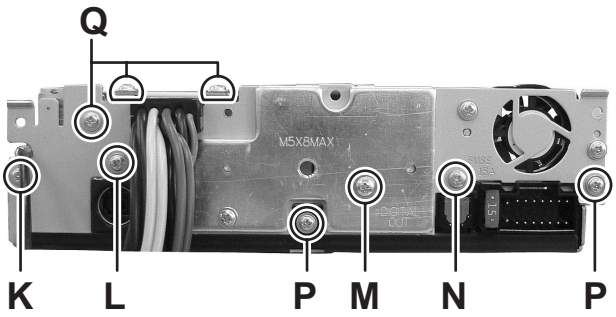


Fig.11

3.1.7 Removing the Main board assembly (See Fig.12)

(1) Disconnect the card wire from connector CN962 on the Main board assembly.
(2) Disconnect the connector wire from Gear assembly connected to connector CN881 and CN891 on the Main board assembly.
(3) Remove the two screws **R** attaching the Main board assembly.

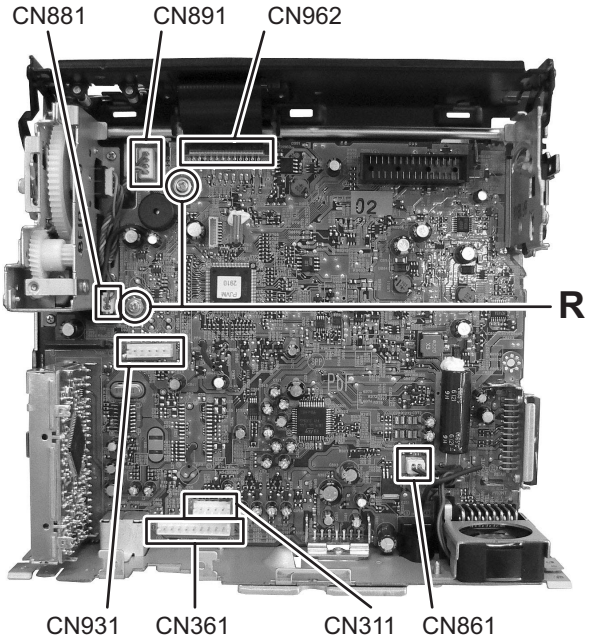


Fig.12

3.1.8 Removing the Front door mechanism assembly (See Fig.13)

(1) From the top side of the bottom chassis assembly, remove the three screws **S** attaching the FPC guide to the Bottom chassis assembly.
(2) Remove the five screws **T** attaching the Front door mechanism assembly to the Bottom chassis.

REFERENCE:

When attaching the screws **S** and **T**, apply a locking agent them.

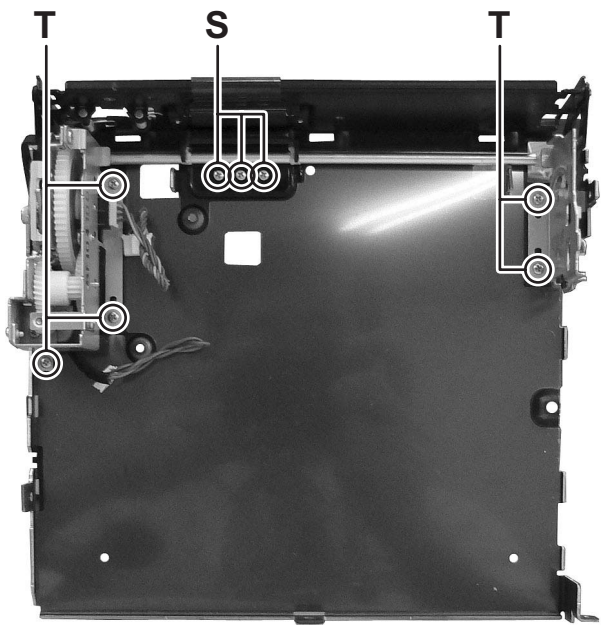


Fig.13

3.1.9 Removing the panel A control board assembly and panel B control board assembly (See Fig.14 and 15)

(1) Remove the eight screws **U** attaching the Rear cover. (See Fig.14)
(2) Remove the two screws **V** attaching the panel B control board. (See Fig.15)

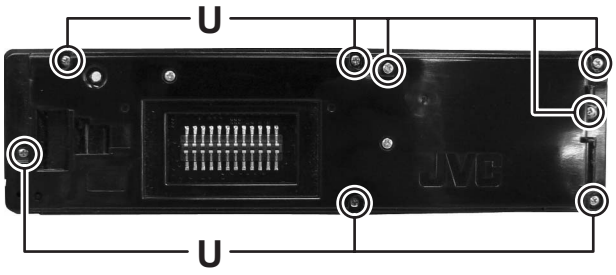


Fig.14

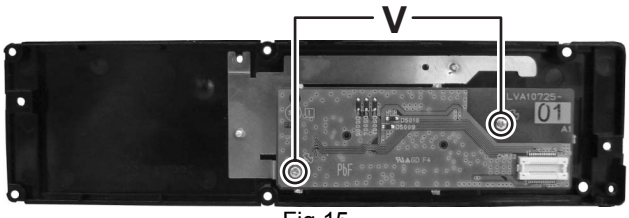


Fig.15

3.2 DVD mechanism assembly

3.2.1 Removing the mechanism control board (See Fig.1)

Caution:

Before disconnecting the flexible wire extending from the DVD pickup, solder the short-circuit point on the flexible wire using a grounding soldering iron. If you do not follow this instruction, the DVD pickup may be damaged.

(1) Turn over the body, and solder the short-circuit points on the flexible wire extending from the DVD pickup.
(2) Disconnect the flexible wire from connector CN101 on the mechanism control board.
(3) Disconnect the card wire from connector CN201 on the mechanism control board.
(4) Disconnect the flexible wire from connector CN202 on the mechanism control board.
(5) Unsolder two soldered points **a** on the mechanism control board and remove the wire extending from the feed motor.
(6) Remove the screw **A** attaching the lug wire.
(7) Remove the two screws **B** and screw **C** attaching the mechanism control board.

Caution:

- As the flexible wire to be connected to CN101, make sure to attach it to the mechanism control board using a double tape.
- After reassembling, unsolder the short-circuit points.

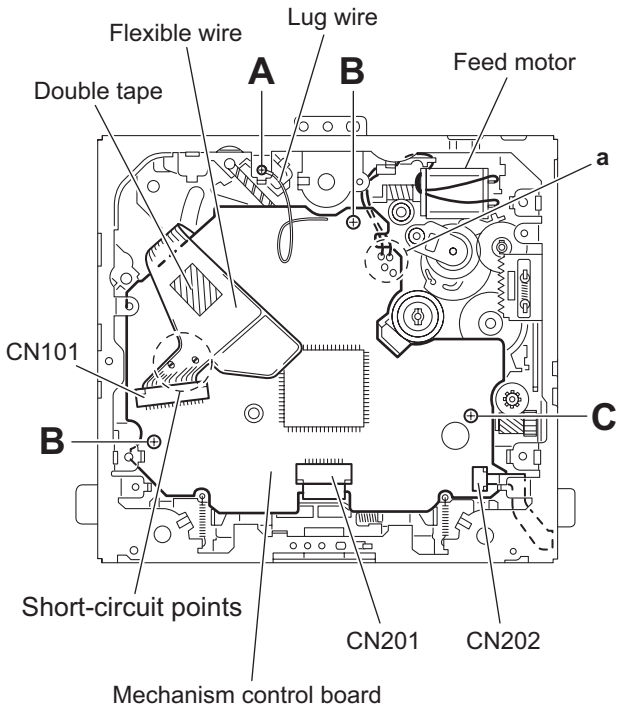


Fig.1

3.2.2 Removing the top cover (See Fig.2)

(1) Remove the two screws **D** attaching the top cover on the back of the body.
(2) Remove the top cover upward.

Reference:

When reassembling, set part **b** of the top cover under the bending part **c** of the chassis frame.

3.2.3 Removing the mechanism section (See Fig.2 to 4)

• Remove the top cover.
(1) From the bottom of the body, remove the screw **E** attaching the lug wire. (See Fig.2.)
(2) Remove the two screws **F** attaching the right and left stoppers on the front side. (See Fig.2.)
(3) Remove the two floating springs on the bottom of the body. (See Fig.3.)
(4) Move the mechanism section upward and remove from the chassis frame.
The three damper springs come off from the dampers. (See Fig.4.)

Caution:

- When reassembling, reattach the damper spring to the damper respectively and insert the three shafts on the bottom of the mechanism to the dampers.
- Before inserting the shaft to the dampers, apply IPA to the hole of damper.

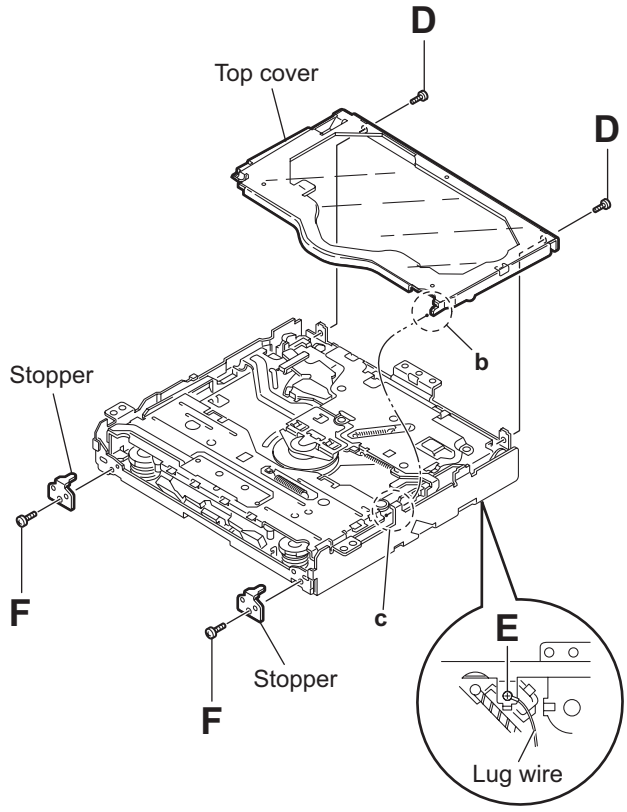


Fig.2

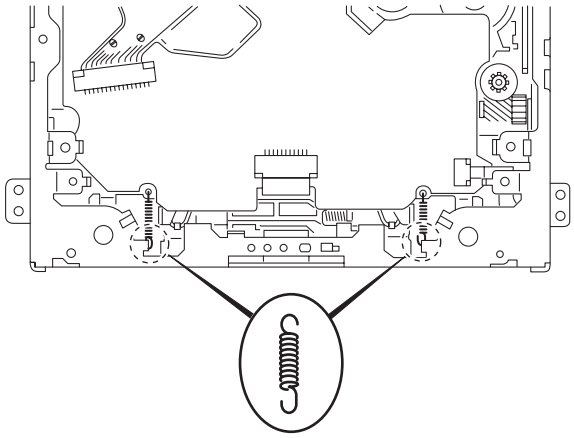


Fig.3

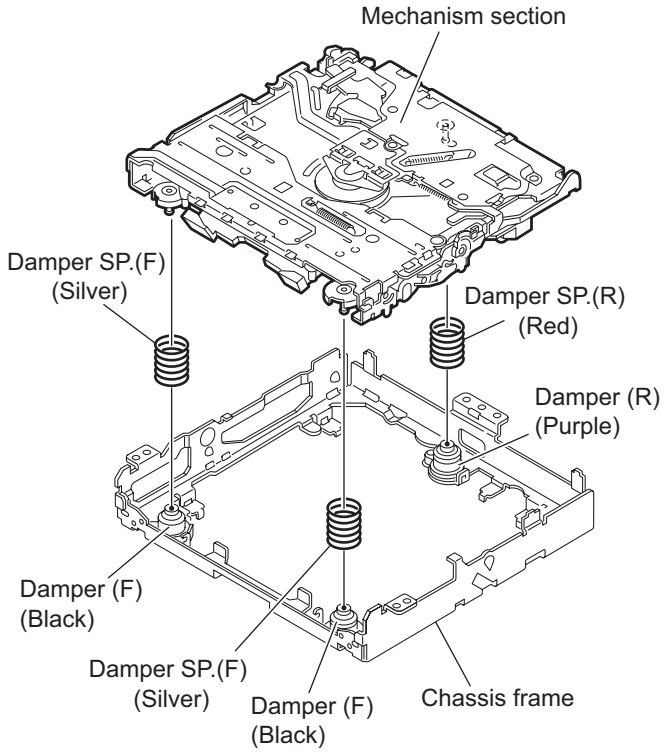


Fig.4

3.2.4 Removing the clamper unit (See Fig.5 to 7)

- Remove the top cover and the mechanism section.
  (1) Remove the clamper2 spring on the bottom of the mechanism section. (See Figs.5.and 6.)
  (2) Release the part **d** of the clamper spring from the bending part of the chassis base assembly. (See Fig.7.)
  (3) Move the clamper unit in the direction of the arrow and turn. Release the two joints **e** and **f**, then remove the clamper unit upward. (See Fig.6.)

3.2.5 Reattaching the clamper unit (See Fig.5 to 9)

(1) Attach the clamper spring to the clamper unit. (See Fig.8.)
(2) Move the clamper unit to set the side joints **e** and f to each boss of the chassis base assembly. Make sure that part **g** is inserted to the notch of the chassis base assembly. (See Figs.5 and 9.)
(3) Move the part **d** of the clamper spring to the outside of the bending part of the chassis base assembly. (See Fig.7.)
(4) Attach the clamper2 spring to the chassis base assembly. (See Figs.5 and 6.)

Caution:

When reattaching, temporarily hook the end of the clamper spring as shown in the figure to make the work easy. (See Fig.8.)

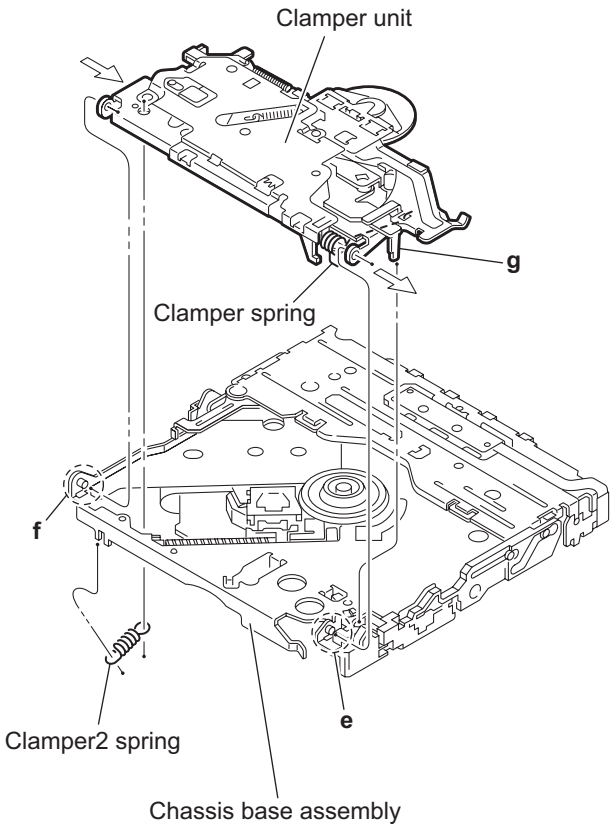


Fig.5

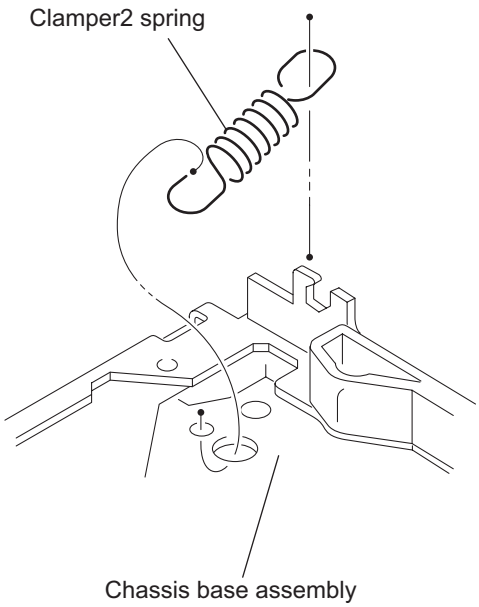


Fig.6

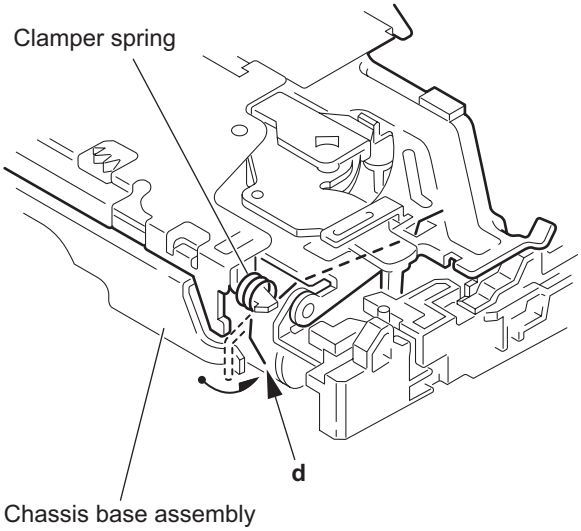


Fig.7

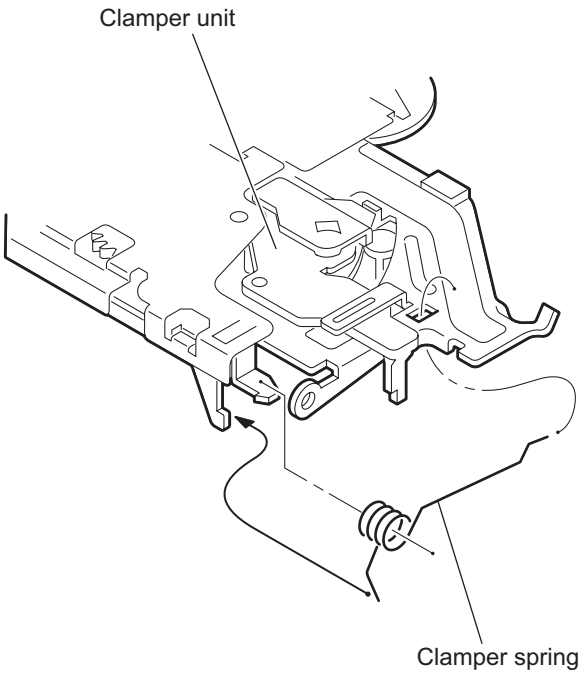


Fig.8

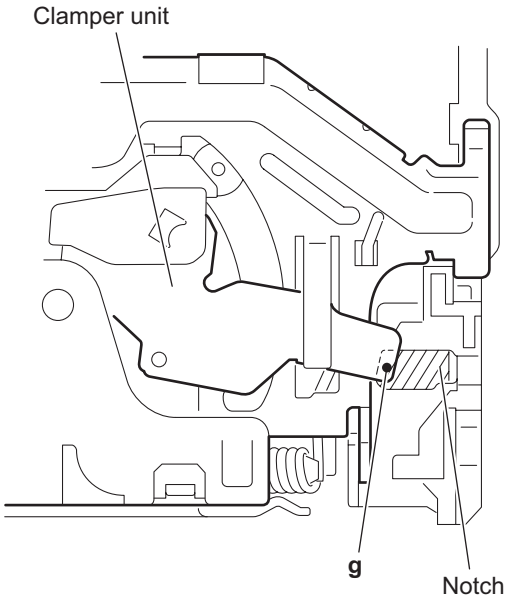


Fig.9

3.2.6 Removing the front unit (See Fig.10 to 12)

- Remove the top cover and the mechanism section.
  (1) Disconnect the flexible wire from connector CN202 on the mechanism control board at the bottom of the body. (See Fig.10.)
  (2) Remove the screw **G** attaching the front unit on the top of the body. (See Fig.11.)
  (3) Move the front unit toward the front to release joint **h**, and release two joints **i** and **j** on the right side of the chassis base assembly. Then remove the front unit upward. (See Figs.11 and 12.)
  (4) Remove the two screws **H** attaching the switch board. (See Fig.12.)

Reference:

You can remove the switch board only without removing the front unit.

Caution:

When reassembling, attach the flexible wire extending from the switch board using the double tape. (See Figs.10 and 12.)

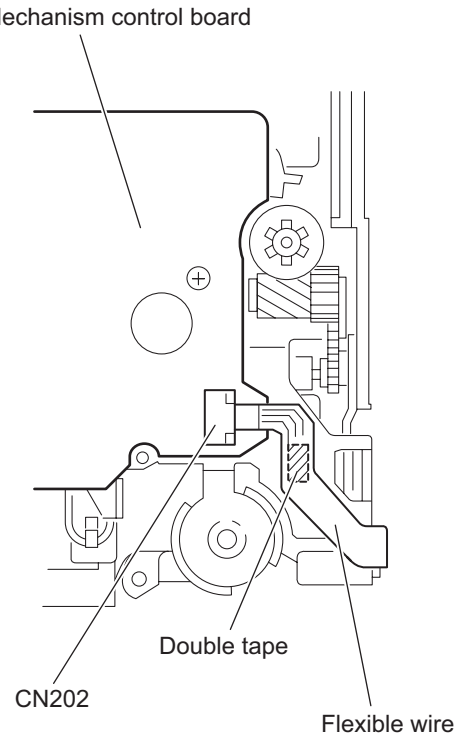


Fig.10

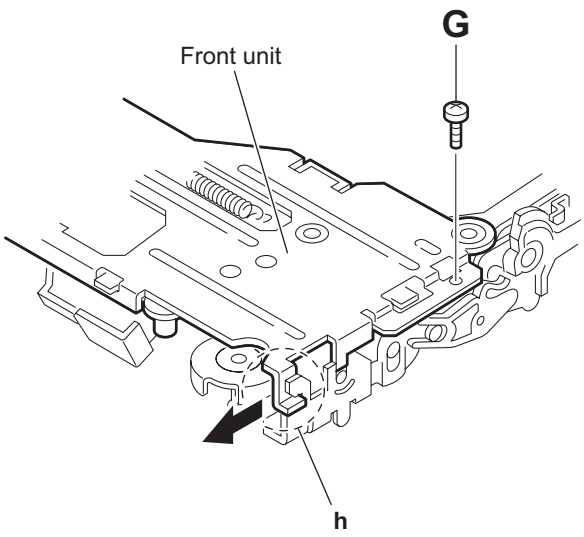


Fig.11

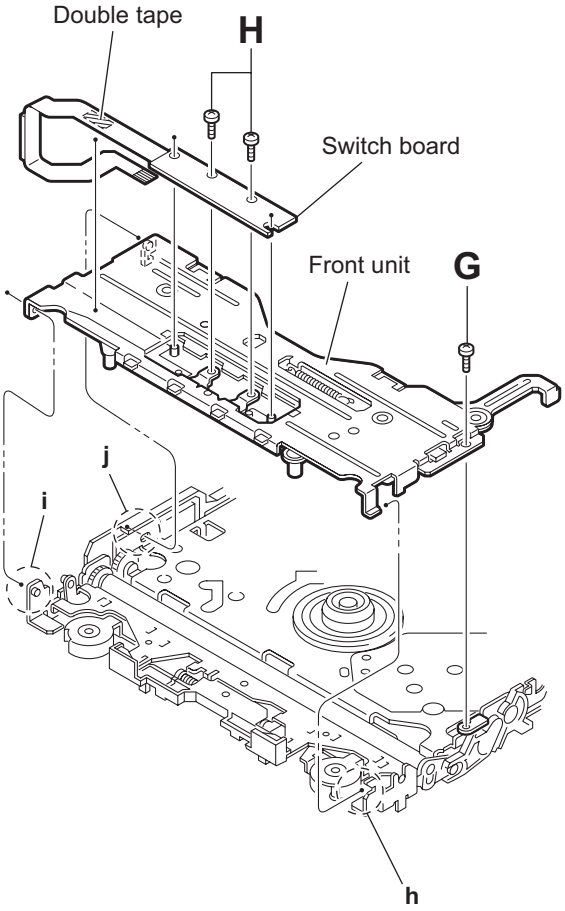


Fig.12

3.2.7 Removing the loading arm assembly (See Fig.13 , 14)

- Remove the top cover, the mechanism section and the front unit.
  (1) From the top of the body, move the loading arm assembly from the front side upward, and release the bosses from the right and left joints **k** and m of the chassis base assembly.
  (2) Release the boss from notch **n** of the connect arm on the right side of the body, and release the boss from notch **p** of the slide cam assembly on the left side.

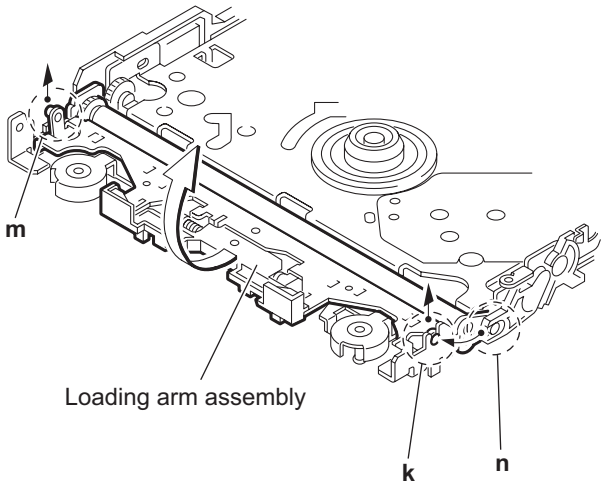


Fig.13

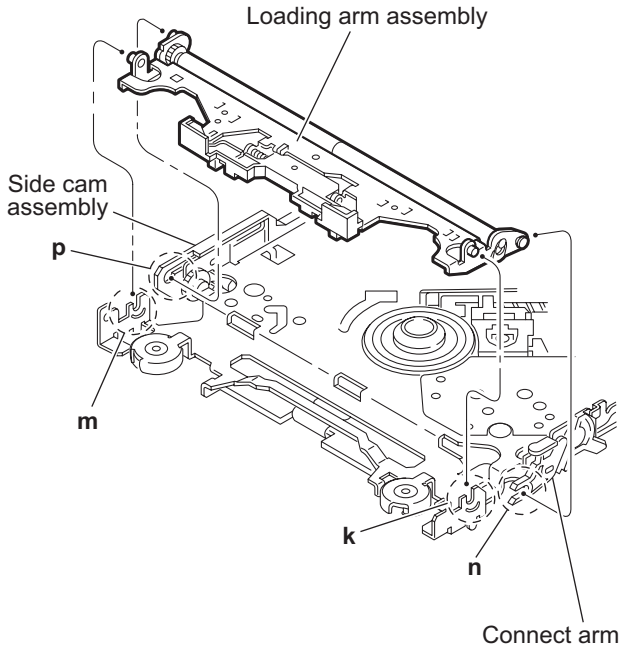


Fig.14

3.2.8 Removing the rod (L)(R)/roller assembly (See Fig.15 and 16)

- Remove the top cover, the mechanism section, the front unit and the loading arm assembly.
  (1) Release the rod (L) and (R) from the joints **q** at the bottom of the loading arm assembly (See Fig.15.)
  (2) Remove the roller assembly from the loading arm assembly. (See Fig.16.)
  (3) Remove the two collars and washer from the roller assembly. (See Fig.16.)

Caution:

After attaching the loading arm assembly to the roller assembly, attach the rod (L) and (R). Attach the rods to the right and left collars of the roller. (See Fig.15.)

When reattaching the rod (L) and (R) to the loading arm assembly, engage each joint as shown in Fig.15. As joints **q** of the rod (L), let the rod through **q** before reattaching it.

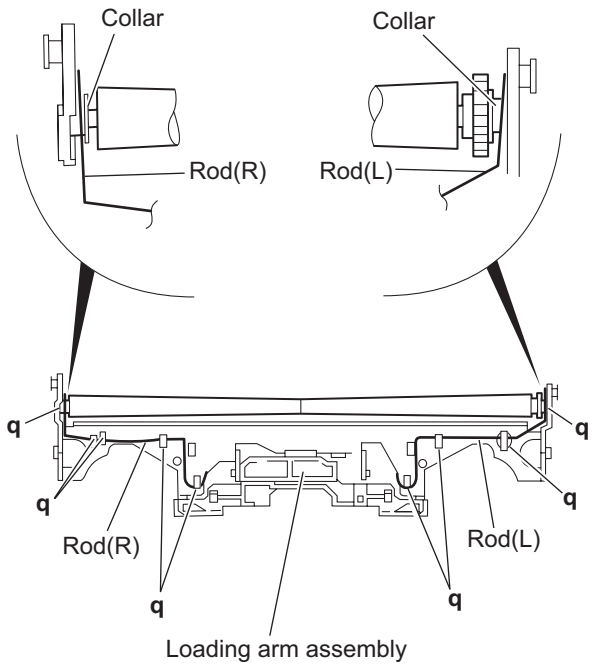


Fig.15

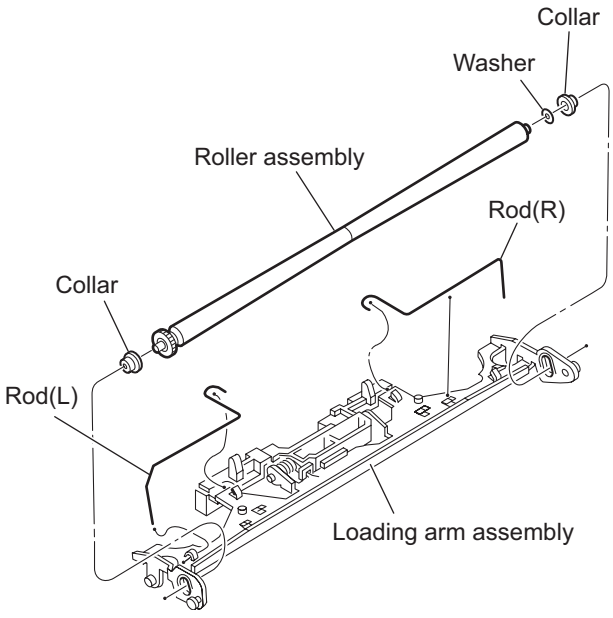


Fig.16

3.2.9 Removing the DVD pickup assembly (See Fig.17 to 19)

- Remove the mechanism control board.

(1) From the bottom of the body, turn the feed gear in the direction of the arrow to move the DVD pickup outwards. (See Fig.17.)

(2) Remove the screw **J** attaching the thrust spring. (See Fig.17.)

(3) Remove the DVD pickup assembly upward on the L.S.gear side and release from sub shaft at joint **r**. Move the lead screw of the DVD pickup assembly in the direction of the arrow to release from joint **s**. (See Fig.18.)

Caution:

- When releasing the lead screw at joint **s**, the L.S.collar comes off at the end of the lead screw. When reassembling, reattach the L.S.collar to the lead screw and engage joint **s**. (See Fig.18.)
- When reattaching the L.S.collar, reattach it to the point **s** of the lead screw, and to the rod (M). Make sure that the L.S.collar is set on the rod (M) spring. (See Fig.18.)

(4) Remove the screw **K** attaching the rack spring/ rack plate on the DVD pickup. (See Fig.19.)

(5) Pull out the lead screw. (See Fig.19.)

Caution:

Perform adjustment after replacing the pickup.

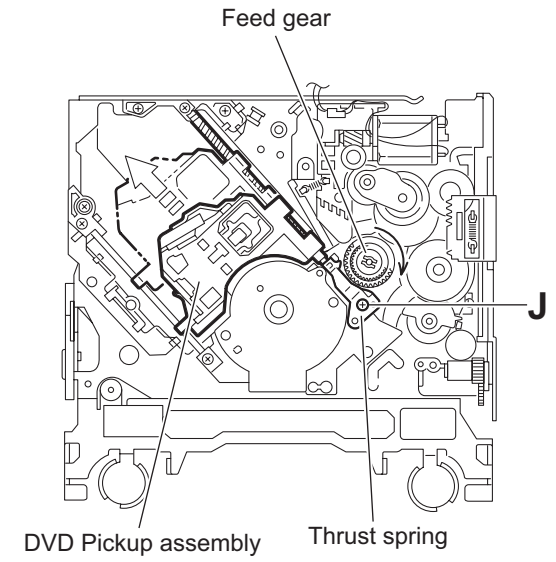


Fig.17

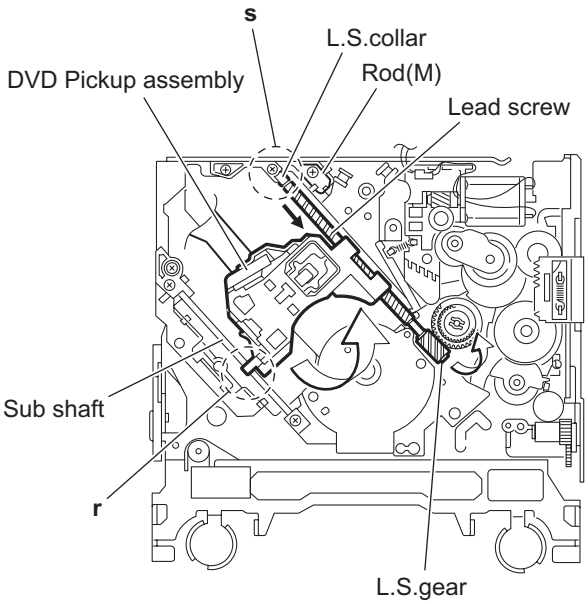


Fig.18

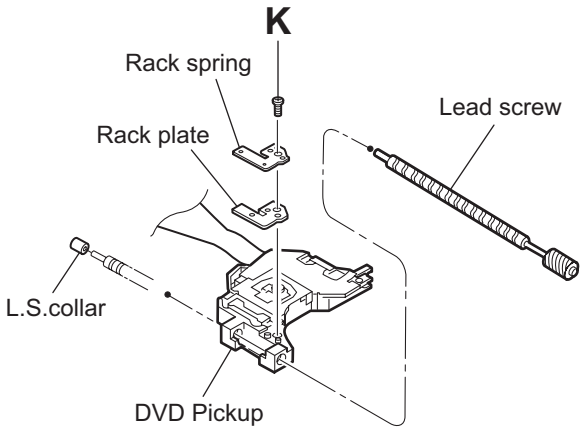


Fig.19

3.2.10 Removing the spindle motor (See Fig.20)

- Remove the mechanism control board.
  Remove the two screws **L** attaching the spindle motor on the bottom of the body.

Caution:
Perform adjustment when reattaching the spindle motor.

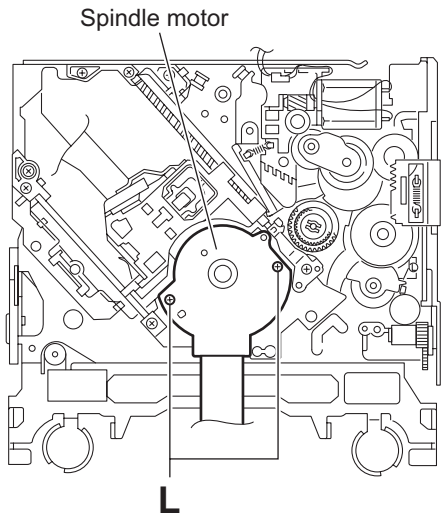


Fig.20

3.2.11 Removing the feed motor assembly (See Fig.21 and 22)

- Remove the mechanism control board.
  (1) Remove the feed TRI. spring on the bottom of the body. (See Fig.21.)
  (2) Remove the two screws **M** attaching the feed motor assembly. (See Fig.21.)
  (3) Remove the slit washer from the motor H. assembly and pull out the worm wheel. (See Fig.22.)

Remove the two screws **N** attaching the feed motor. (See Fig.22.)

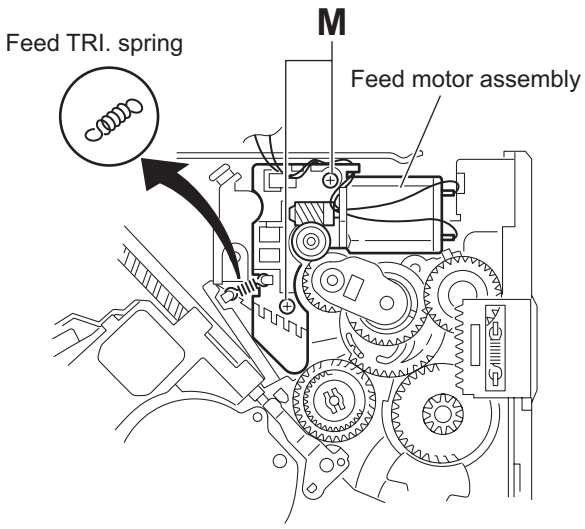


Fig.21

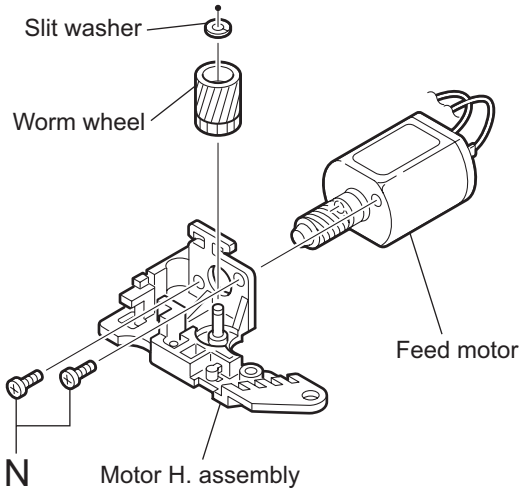


Fig.22

SECTION 4
ADJUSTMENT

4.1 Test instruments required for adjustment

(1) Digital oscilloscope (100MHz)
(2) Jitter meter
(3) Digital tester
(4) Electric voltmeter
(5) Tracking offset meter
(6) Test Disc : VT501 or VT502
(7) Extension studs : STDV001-3P
(8) Extension cable : EXTDV002-30P

4.2 Standard measuring conditions

Power supply voltage : DC14.4V(11 to 16V)
Load impedance : 4 Ω (2 Speakers connection)
Line Output : 20K Ω

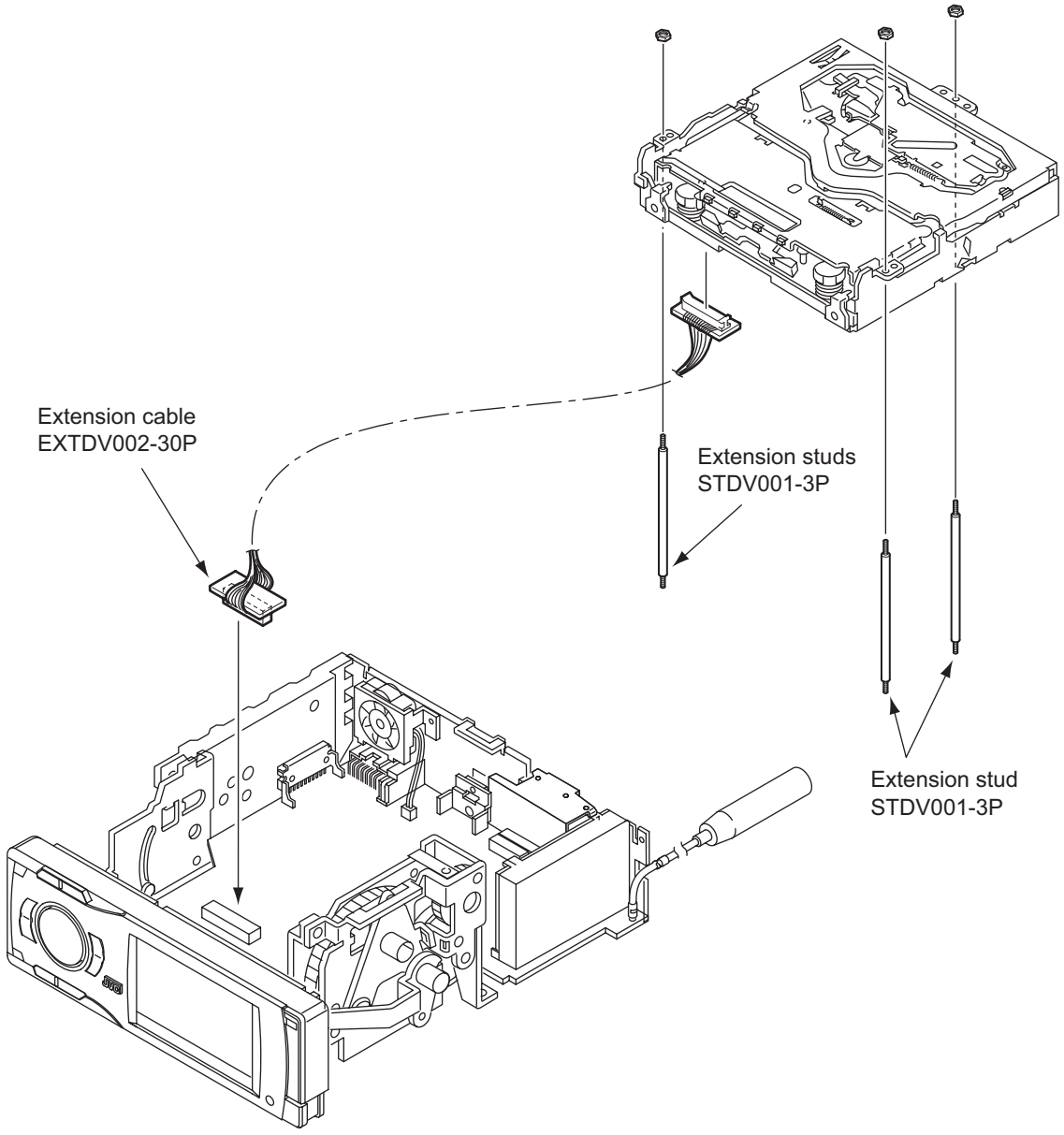
Caution:

Be sure to attach the heat sink and rear bracket onto the power amplifier IC and regulator IC respectively, before supply the power. If voltage is applied without attaching these parts, the power amplifier IC and regulator IC will be destroyed by heat.

4.3 Connection method

Connection procedure

(1) Attach the front chassis assembly to the main board.
(2) Attach the heat sink and rear bracket to the main board.
(3) Attach the extension studs to the DVD mechanism assembly.
(4) Connect the DVD mechanism assembly and the main board with a extension cable.

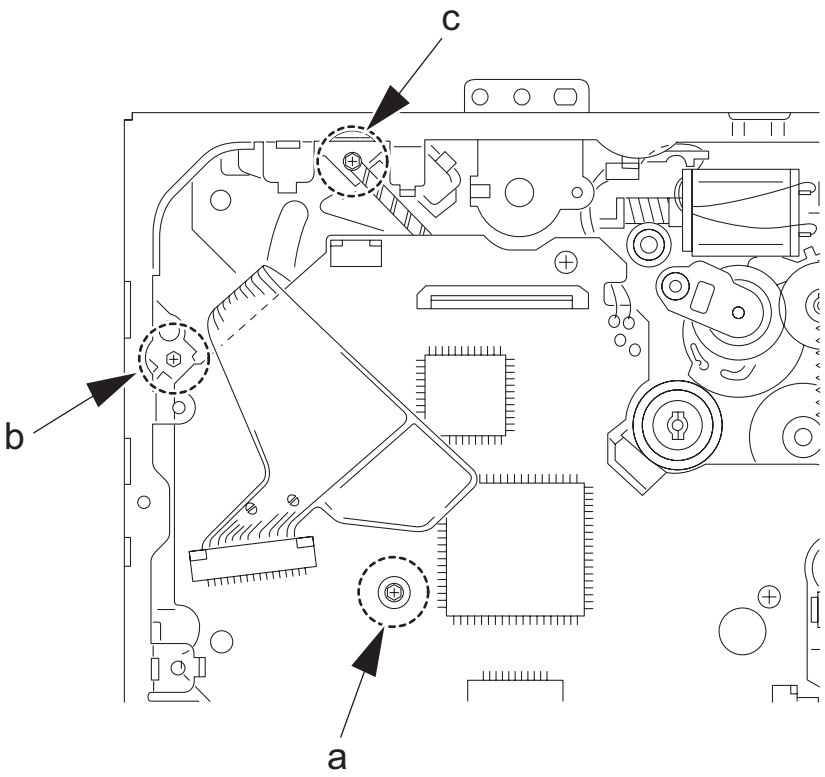


4.4 Adjustment method for jitter

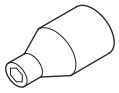
After replacing the pickup, set the unit in the service mode to display a jitter value on the LCD.
Confirm that the jitter value measured with a jitter meter is within 12% of the jitter value displayed on the LCD.
If it is within 12%, then adjustment is not necessary.
If the measured jitter value is outside the 12% tolerance range, perform the following adjustments.

4.4.1 Adjustment procedure

(1) Set the unit to the service mode and display a jitter value (hex data) on the LCD.
(2) Turn each of the screws a, b and c, by a half-turn per step, in the direction that reduces the jitter value in order to minimize it. (Do not turn a screw more than a half turn at a time, but adjust the screws in the cycle of the same level is turned in the pair of b+c and the same level is turned in the pair of a+b.)
(3) After completing the adjustment, secure the screws with screw lock paint.



Jitter value adjustment procedure (Pickup horizontal level adjustment relative to the DVD recording surface)
(For the adjustment tool use a 3 mm wrench and not a screwdriver, this procedure will make the adjustment easier.)

3 mm wrench 

(1) Set the unit to the service mode and display a jitter value (hex data) on the LCD.
(2) Turn each of the screws a, b and c, by a half-turn per step, in the direction that reduces the jitter value in order to minimize it. (Do not turn a screw more than a half turn at a time, but adjust the screw in the cycle of same level turn by pair of b+c → pair of a+b.)
(3) After completing the adjustment, secure the screws with screw lock paint.

4.5 Jitter value conversion table

Load the test DVD and set the unit to the service mode. A jitter value converted to the hex value is displayed on the LCD.
Refer to the corresponding decimal notation value shown in the following Jitter Conversion Table.
The adjustment is OK if the jitter value measured with a jitter meter is within 12% of the jitter value displayed on the LCD.
If the measured jitter value is outside the 12% tolerance range, adjust it to minimize the difference between the measured value and the displayed value.

Jitter conversion value (DV2.1)
SPEED × 1

Calculation

Indicated on the LCD	Jitter (%)
E9A6	7.5

LCD indication	Jitter value (%)	LCD indication	Jitter value (%)	LCD indication	Jitter value (%)	LCD indication	Jitter value (%)
EF56	4.7	E972	7.6	E38E	10.5	DDAA	13.4
EF22	4.8	E93E	7.7	E35A	10.6	DD76	13.5
EEEE	4.9	E90A	7.8	E326	10.7	DD42	13.6
EEBA	5.0	E8D6	7.9	E2F2	10.8	DD0E	13.7
EE86	5.1	E8A2	8.0	E2BE	10.9	DCDA	13.8
EE52	5.2	E86E	8.1	E28A	11.0	DCA6	13.9
EE1E	5.3	E83A	8.2	E256	11.1	DC72	14.0
EDEA	5.4	E806	8.3	E222	11.2	DC3E	14.1
EDB6	5.5	E7D2	8.4	E1EE	11.3	DC0A	14.2
ED82	5.6	E79E	8.5	E1BA	11.4	DBD6	14.3
ED4E	5.7	E76A	8.6	E186	11.5	DBA2	14.4
ED1A	5.8	E736	8.7	E152	11.6	DB6E	14.5
ECE6	5.9	E702	8.8	E11E	11.7	DB3A	14.6
ECB2	6.0	E6CE	8.9	E0EA	11.8	DB06	14.7
EC7E	6.1	E69A	9.0	E0B6	11.9	DAD2	14.8
EC4A	6.2	E666	9.1	E082	12.0	DA9E	14.9
EC16	6.3	E632	9.2	E04E	12.1	DA6A	15.0
EBE2	6.4	E5FE	9.3	E01A	12.2	DA36	15.1
EBAE	6.5	E5CA	9.4	DFE6	12.3	DA02	15.2
EB7A	6.6	E596	9.5	DFB2	12.4	D9CE	15.3
EB46	6.7	E562	9.6	DF7E	12.5	D99A	15.4
EB12	6.8	E52E	9.7	DF4A	12.6	D966	15.5
EADE	6.9	E4FA	9.8	DF16	12.7	D932	15.6
EAAA	7.0	E4C6	9.9	DEE2	12.8	D8FE	15.7
EA76	7.1	E492	10.0	DEAE	12.9	D8CA	15.8
EA42	7.2	E45E	10.1	DE7A	13.0	D896	15.9
EA0E	7.3	E42A	10.2	DE46	13.1	D862	16.0
E9DA	7.4	E3F6	10.3	DE12	13.2		
E9A6	7.5	E3C2	10.4	DDDE	13.3		

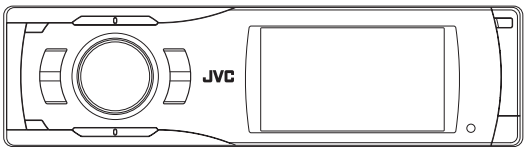
4.6 Service mode

4.6.1 Standard input/output conditions

Power supply voltage : DC14.4V(11 to 16V)
Load impedance : 4 Ω (2 Speakers connection)
Line Output : 20K Ω

4.6.2 Service mode setting procedure

(The DVD does not need to be loaded before starting the following procedure.)



4.6.3 Operation procedures

1.Service mode 1 (Indication of a service mode 1 is nothing.)

Keep this state more 2 seconds while continuing pressing the [STANDBY/ON ATTENUATOR] button and [EJECT] button sequentially.

↓

Screen indication

NO EJECT?	∗1
EMERGENCY EJECT?	∗2

Exchanging it operate a menu of a service mode with the [UP] button and [DOWN] button. Operate choice of a menu with a [ENT] button.

∗1 : When an [ENT] button is pushed in NO EJECT indication, it is set by an EJECT prohibition mode.
When an [ENT] button is pushed in EJECT OK indication, it is aet bu a normal mode.

∗2 : Forced EJECT movement
A screen becomes normal indication after an ENT button was pushed.

2.Service mode 2

Keep this state more 2 seconds while continuing pressing the [MENU] button, [VOLUME-] button and [ENT] button sequentially.

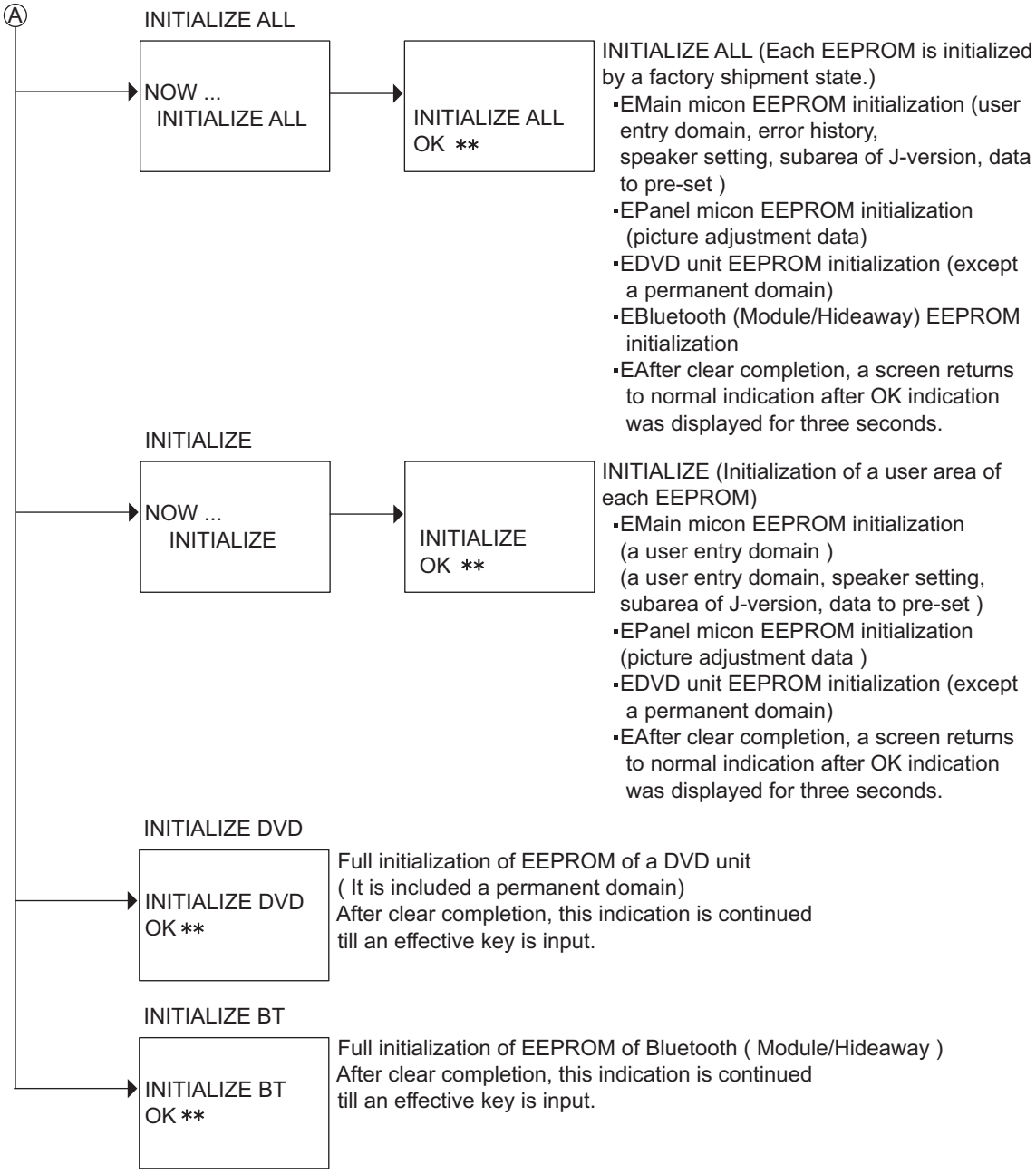
↓

Screen indication

SERVICE MODE 2
INITIALIZE ALL
INITIALIZE
INITIALIZE DVD
INITIALIZE BT

Exchanging it operate a menu of a service mode with the [UP] button and [DOWN] button. Operate choice of a menu with a [ENT] button.

Ⓐ



3.Service mode 3

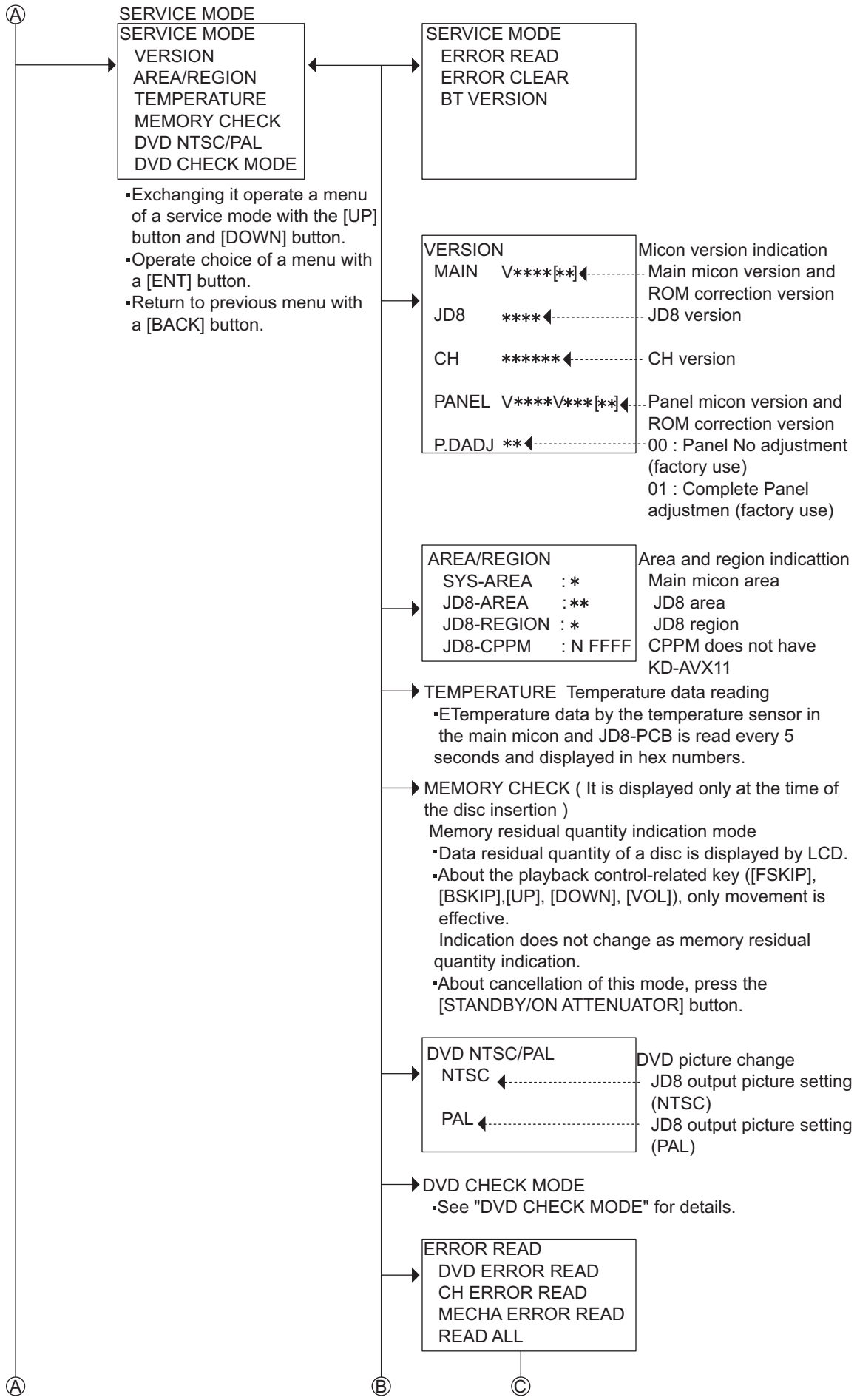
Keep this state more 2 seconds while continuing pressing the [MENU] button, [DISP] button and [ENT] button sequentially.

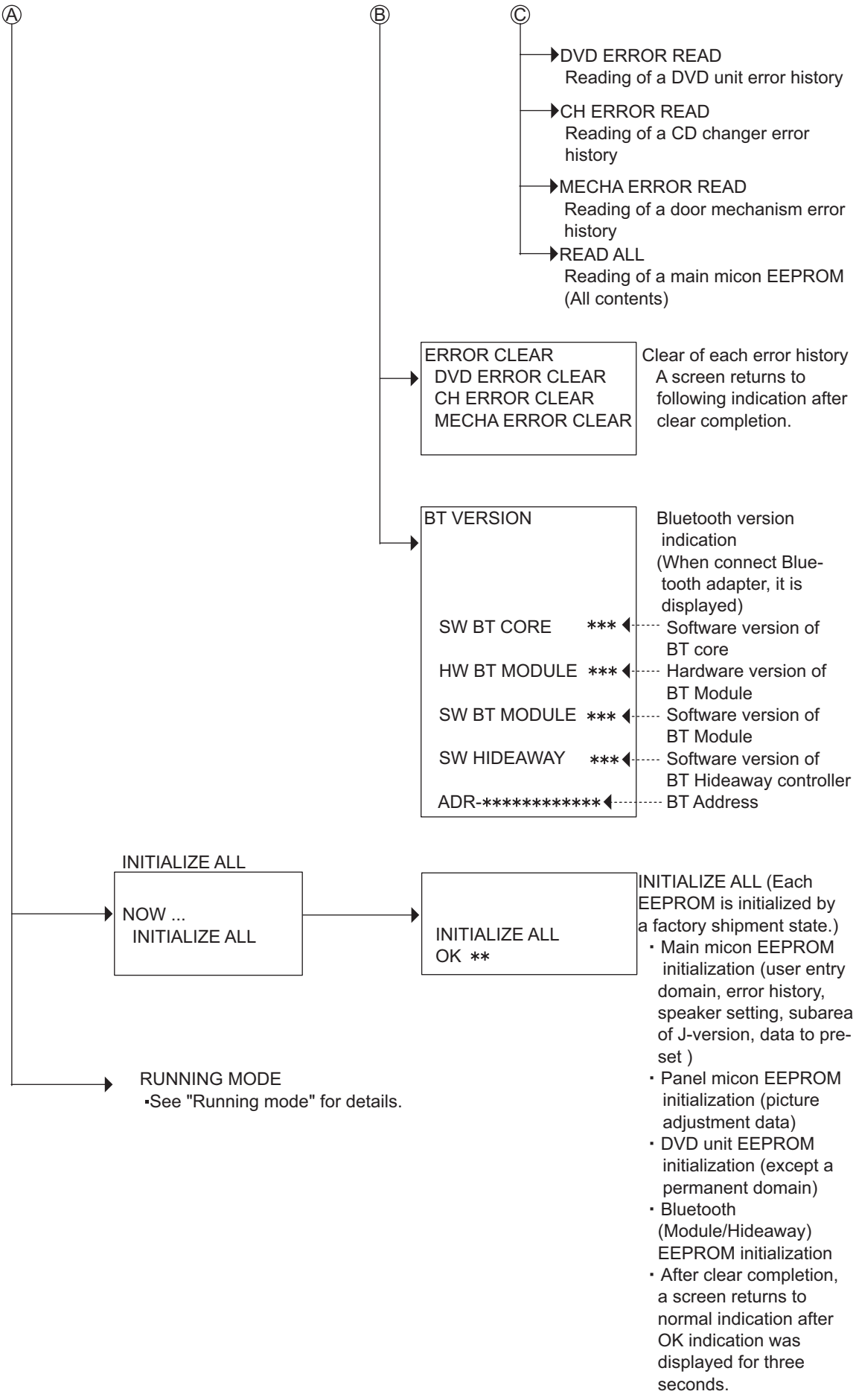
Screen indication

SERVICE MODE 3
SERVICE MODE
INITIALIZE ALL
RUNNING MODE

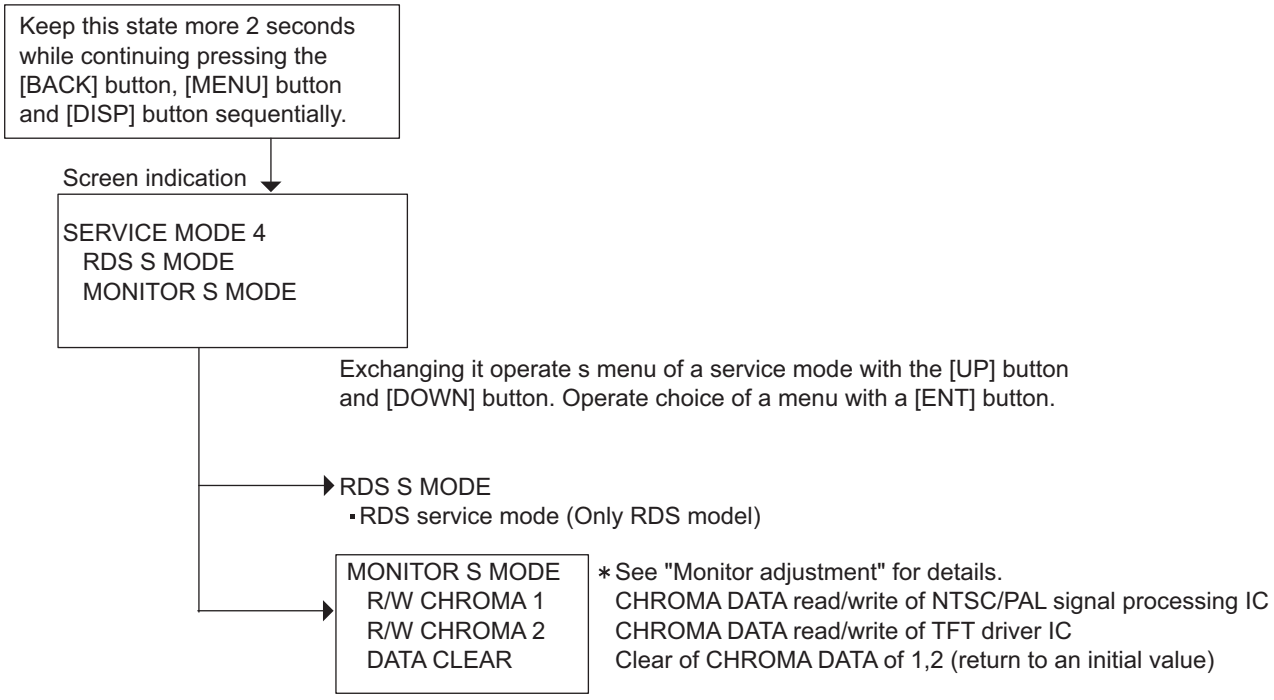
Exchanging it operate a menu of a service mode with the [UP] button and [DOWN] button. Operate choice of a menu with a [ENT] button.

Ⓐ

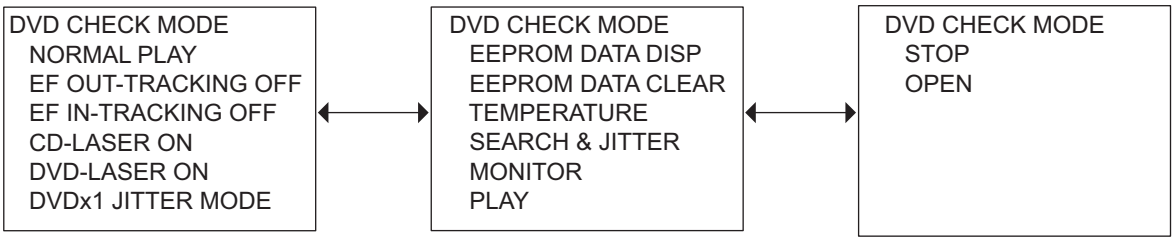

Ⓐ
SERVICE MODE
SERVICE MODE
VERSION
AREA/REGION
TEMPERATURE
MEMORY CHECK
DVD NTSC/PAL
DVD CHECK MODE
SERVICE MODE
ERROR READ
ERROR CLEAR
BT VERSION
▪Exchanging it operate a menu of a service mode with the [UP] button and [DOWN] button.
▪Operate choice of a menu with a [ENT] button.
▪Return to previous menu with a [BACK] button.
VERSION
MAIN V****[**]
Micon version indication
Main micon version and ROM correction version
JD8 ****
JD8 version
CH ******
CH version
PANEL V****V***[**]
Panel micon version and ROM correction version
P.DADJ **
00 : Panel No adjustment (factory use)
01 : Complete Panel adjustmen (factory use)
AREA/REGION
SYS-AREA : *
JD8-AREA : **
JD8-REGION : *
JD8-CPPM : N FFFF
Area and region indicattion
Main micon area
JD8 area
JD8 region
CPPM does not have KD-AVX11
TEMPERATURE Temperature data reading
▪ETemperature data by the temperature sensor in the main micon and JD8-PCB is read every 5 seconds and displayed in hex numbers.
MEMORY CHECK (It is displayed only at the time of the disc insertion)
Memory residual quantity indication mode
▪Data residual quantity of a disc is displayed by LCD.
▪About the playback control-related key ([FSKIP], [BSKIP],[UP], [DOWN], [VOL]), only movement is effective.
Indication does not change as memory residual quantity indication.
▪About cancellation of this mode, press the [STANDBY/ON ATTENUATOR] button.
DVD NTSC/PAL
NTSC
PAL
DVD picture change
JD8 output picture setting (NTSC)
JD8 output picture setting (PAL)
DVD CHECK MODE
▪See "DVD CHECK MODE" for details.
ERROR READ
DVD ERROR READ
CH ERROR READ
MECHA ERROR READ
READ ALL
Ⓐ
Ⓑ
Ⓒ


Ⓐ
Ⓑ
Ⓒ
DVD ERROR READ
Reading of a DVD unit error history
CH ERROR READ
Reading of a CD changer error history
MECHA ERROR READ
Reading of a door mechanism error history
READ ALL
Reading of a main micon EEPROM (All contents)
ERROR CLEAR
DVD ERROR CLEAR
CH ERROR CLEAR
MECHA ERROR CLEAR
Clear of each error history
A screen returns to following indication after clear completion.
BT VERSION
Bluetooth version indication
(When connect Blue-tooth adapter, it is displayed)
SW BT CORE ***
Software version of BT core
HW BT MODULE ***
Hardware version of BT Module
SW BT MODULE ***
Software version of BT Module
SW HIDEAWAY ***
Software version of BT Hideaway controller
ADR-**********
BT Address
INITIALIZE ALL
NOW ...
INITIALIZE ALL
INITIALIZE ALL
OK **
INITIALIZE ALL (Each EEPROM is initialized by a factory shipment state.)
・Main micon EEPROM initialization (user entry domain, error history, speaker setting, subarea of J-version, data to pre-set)
・Panel micon EEPROM initialization (picture adjustment data)
・DVD unit EEPROM initialization (except a permanent domain)
・Bluetooth (Module/Hideaway) EEPROM initialization
・After clear completion, a screen returns to normal indication after OK indication was displayed for three seconds.
RUNNING MODE
▪See "Running mode" for details.

4.Service mode 4



4.6.4 DVD check mode



Exchanging it operate a menu of a service mode with the [UP] button and [DOWN] button. Operate choice of a menu with a [ENT] button.

Command	Mechanism unit operation	Indication contents
NORMAL PLAY	Start at normal speed (After start, jitter is measured by an inner position.)	Laser current value, jitter value
EF OUT-TRACKING OFF	Tracking off the outermost position of CD	For EF phase error
EF IN-TRACKING OFF	Tracking off the innermost position of CD	For EF phase error
CD-LASER ON	CD_LD lights and laser current is displayed.	Laser current value, jitter value
DVD-LASER ON	DVD_LD lights and laser currrent is displayed	Laser current value, jitter value
DVDx1 JITTER MODE	DVD x1 jitter measuring mode (for use in mechanism adjustment)	Laser current value, jitter value
EEPROM DATA DISP	Contents of EEPROM is displayed.	EEPROM address EEPROM contents
EEPROM DATA CLEAR	Contents of EEPROM is initialized.	EEPROM address EEPROM contents
TEMPERATURE	Temperature indication	Temperature is displayed in hex numbers.
SEARCH & JITTER	The search and jitter measurement to an appointed position of DVD.	Position measured with VT-501 jitter value
MONITOR	Monitor terminal setting	
PLAY	DVD x1 stopped start (After start, jitter is measured by an inner position.)	Not displayed.
STOP	Disc stopped, LD-OFF	Not displayed.
OPEN	OPEN	Not displayed.

4.6.5 Error code tables

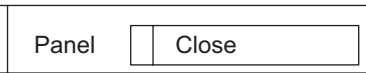
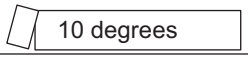
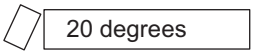
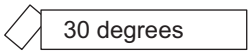
Mechanism error code

Error contents	Details	Error code	Detailed error code
Disc loading error			
① B1 time out		0x09	0x0011
② C1 time out		0x09	0x0012
③ D1 time out		0x09	0x0013
④ C2 time out		0x09	0x0014
⑤ B2 time out		0x09	0x0015
⑥ A2 time out		0x09	0x0016
⑦ F1 time out		0x09	0x0017
⑧ A0 (Switch state without existence)		0x09	0x0018
⑨ G1 time out		0x09	0x0019
⑩ G2 time out		0x09	0x0020
Eject error			
① F2 time out		0x01	0x0021
② A1 time out		0x01	0x0022
③ B1 time out		0x01	0x0023
④ C1 time out		0x01	0x0024
⑤ D1 time out		0x01	0x0025
⑥ C2 time out		0x01	0x0026
⑦ B2 time out		0x01	0x0027
⑧ A0 (Switch state without existence)		0x01	0x0028
Error in loading wait	Loading of a running mode Disc was pulled out in a wait.	0x09	0x0031
Loading re-execution→¨ NG→¨ Eject	Running mode error	0x09	0x0032
Eject re-execution→¨ NG→¨ Loading	Running mode error	0x01	0x0033

Disc error code

Error contents	Details	Error code	Detailed error code
TOC read error	TOC lead movement of a CD is not completed.	0x84	0x0059
First track access error	Even if TOC reading passes after the end with CD running mode for 30 seconds, the first track access is not finished.	0x80	0x0060
Last track access error	Even if first track passes after the end with CD running mode for 30 seconds, the last track access is not finished.	0x80	0x0061
T1 access error	Even if T1 access passes in a DVD runnung mode for 30 seconds, it is not finished.	0x80	0x0069
T12 access error	Even if T12 access passes in a DVD runnung mode for 30 seconds, it is not finished.	0x80	0x0070
T24 access error	Even if T24 access passes in a DVD runnung mode for 30 seconds, it is not finished.	0x80	0x0071
Read-in area read error	Read-in area read operation of DVD is not completed.	0x84	0x0072
DVD L1 layer adjustment error	Adjustment of L1 layer of DVD is not finishhed normally. (including focus jump failure)	0x80	0x0074
NO DISC judgment	Judgment without disc	0x80	0x0090
It is NO DISC by start failure	Start is impossible	0x80	0x0091
It is stopped by playback inability.	Stop in running mode playback	0x80	0x0093
Logic format NG	Logic format analysis inability or non-correspondence logic format	0x80	0x0094

Error codes of panel mechanism

PANEL ANGLE	
1	
2	
3	
4	
Open	

Detail	Error code (Service mode)
Open error 1. Time out error by OPEN position cannot detect.	0A0001
Close error (ANGLE 1 error) 1. Time out error by ANGLE 1 position cannot detect.	0B0006
Angle positioning error Moving to 10 degrees (ANGLE 2 error) 1. Time out error by ANGLE 2 position cannot detect at moving to open position. 2. Missing to ANGLE 1 and detected ANGLE 2 position at moving to open position. 3. Time out error by ANGLE 2 cannot detect at moving close position.	 0D0021 0D0022 0D0023
Moving to 20 degrees (ANGLE 3 error) 1. Time out error by ANGLE 3 position cannot detect at moving to open position. 2. Missing to ANGLE 2 and detected ANGLE 3 position at moving to open position. 3. Time out error by ANGLE 3 cannot detect at moving close position.	 0E0031 0E0032 0E0033
Moving to 30 degrees (ANGLE 4 error) 1. Time out error by ANGLE 4 position cannot detect at moving to open position. 2. Missing to ANGLE 3 and detected ANGLE 4 position at moving to open position. 3. Time out error by ANGLE 4 cannot detect at moving close position.	 0F0041 0F0042 0F0043
Abnormal switch position at moving panel The Panel move to open and close position, detected abnormal switch position.	0A0000

4.6.6 Running mode

Indication	Explanation	Operation contents of 1 cycle		In mecha error	In disc error
RUNNING1 MECHA	Door mecha running 1	Panel close →¨ Panel open		-	-
RUNNING2 MECHA	Door mecha running 2	Panel close →¨ Panel open → ¨ Panel detach position→¨Panel angle	RETRY	Retry	-
		3 position →¨ Panel angle 1 position → ¨ Panel angle 2 position	NO RETRY	Stop	-
RUNNING3 DVD	DVD+Door mecha running1	Loading →¨ Eject →¨ Wait for 5 seconds+ Door open/close		Stop	-
RUNNING4 DVD	DVD+Door mecha running2	Loading →¨ Eject →¨ Wait for 5 seconds+ Door open/close		Retry	-
RUNNING5 DVD	DVD+Door mecha running3	Loading →¨ Playback →¨ Eject →¨ Wait for 5 seconds+Door open/close		Stop	Stop
RUNNING6 DVD	DVD+Door mecha running4	Loading →¨ Playback →¨ Eject →¨ Wait for 5 seconds+Door open/close		Retry	Stop
RUNNING7 DVD	DVD+Door mecha running5	Loading →¨ Playback →¨ Eject →¨ Wait for 5 seconds+Door open/close		Stop	Retry
RUNNING8 DVD	DVD+Door mecha running6	Loading →¨ Playback →¨ Eject →¨ Wait for 5 seconds+Door open/close		Retry	Retry

* Cancellation of running1,2 : Press the [EJECT] key
* In running 1,2 cancellation, a door does not stop at the position and moves to a panel position.
* Cancellation of running3 to 8 : Press the [POWER] key
* The number of count and an error cord are displayed in running.

Playback contents in a running mode

▪CD

The first track is played for 30 seconds. → The last track is played for 30 seconds.

(The last track is played in the case of less than till the last for 30 seconds.)

▪DVD

2layer disc (Pit disc)

Title 1 (the L0 layer internal circumference) is played for 30 seconds. → Title 12 (L0 layer circumference) is played for 30 seconds.

→¨ Title 24 (L1layer internal circumference) is played for 30 seconds.

2layer disc (Recordable disc)

Title 1 (the L0 layer internal circumference) is played for 30 seconds. → Title 13 (L0 layer circumference) is played for 30 seconds.

→¨ Title 24 (L1layer internal circumference) is played for 30 seconds.

1layer disc

First chapter of title 1 is played for 30 seconds. → The last chapter of title 1 is played for 30 seconds.

4.6.7 Monitor adjustment

Monitor adjustment

*When adjusting, switch on the main unit and insert a test disc (VT-501). And play the test disc and pause it.
(Exiti for VCO FREE-RUN adjustment)

1. Set the service mode 4.
2. Exchanging it operate a menu of a service mode with the [UP] button and [DOWN] button.
3. Change data with the [B.SKIP]/[F.SKIP] buttons.
4. Write data with a [ENT] button.

*When performing the VCO FREE-RUN(NTSC) adjustment, set the NTSC mode (Service mode 3 → Service mode → DVD NTSC/PAL) and turn the input into the no input. Connect the frequency counter to the point (TP524-GND) on the panel board and set the frequency into 15.734 ± 0.01 (kHz).

*When performing the VCO FREE-RUN(PAL) adjustment, set the PAL mode (Service mode 3 → Service mode → DVD NTSC/PAL) and turn the input into the no input. Connect the frequency counter to the point (TP524-GND) on the panel board and set the frequency into 15.625 ± 0.01 (kHz).

R/W CHROMA 1

Indication	Minimum value	Maximum value	Initial value	Reference register value		Detail
Contrast	00	7F	5E	5C	Adjust	Contrast control
Color (NTSC)	00	7F	33	39	Adjust	Color control
Color (PAL)	00	7F	32	36	Adjust	Color control
Color (SECAM)	00	7F	3F	3F	Fix	Color control
Tint (NTSC)	00	7F	3C	3E	Adjust	Tint control
Tint (PAL)	00	7F	3F	40	Adjust	Tint control
Tint (SECAM)	00	7F	3F	3F	Fix	Tint control
Sharpness	00	3F	20	20	Fix	Sharpness control
Brightness	00	FF	89	96	Adjust	Brightness control
ABL off	00	01	01	01	Fix	Auto brightness limiter off
Sub Contrast	00	0F	09	09	Fix	Controls the Y amplitude
White Lim	00	0F	0F	0F	Fix	White clipping voltage for RGB signal exceeding over white
Black Lim	00	0F	00	00	Fix	White clipping voltage for RGB signal exceeding over white
Gamma 1	00	FF	00	00	Fix	Correction peak point
Gamma 2	00	FF	00	00	Fix	Boost gain correction peak point
Sub Brt R	00	0F	09	08	Adjust	Sub brightness control for R output signal
Sub Brt B	00	0F	09	08	Adjust	Sub brightness control for R output signal
Drive R (NTSC)	00	3F	20	20	Fix	Gain control for RGB video signal
Drive R (PAL)	00	3F	20	20	Fix	Gain control for RGB video signal
Drive R (SECAM)	00	3F	2F	2F	Fix	Gain control for RGB video signal
RY Gain	00	01	00	00	Fix	Relative amplitude of R-Y color difference signal
RY Phase (NTSC)	00	01	00	00	Fix	Relative phase of G-Y color difference signal
RY Phase (PAL)	00	01	00	00	Fix	Relative phase of G-Y color difference signal

RY Phase (SECAM)	00	01	00	00	Fix	Relative phase of G-Y color difference signal
Drive G (NTSC)	00	3F	20	20	Fix	Gain control for RGB video signal
Drive G (PAL)	00	3F	20	20	Fix	Gain control for RGB video signal
Drive G (SECAM)	00	3F	2F	2F	Fix	Gain control for RGB video signal
GY Gain	00	01	00	00	Fix	Relative amplitude of R-Y color difference signal
GY Phase (NTSC)	00	01	00	00	Fix	Relative phase of G-Y color difference signal
GY Phase (PAL)	00	01	00	00	Fix	Relative phase of G-Y color difference signal
GY Phase (SECAM)	00	01	00	00	Fix	Relative phase of G-Y color difference signal
Drive B (NTSC)	00	3F	20	20	Fix	Gain control for RGB video signal
Drive B (PAL)	00	3F	20	20	Fix	Gain control for RGB video signal
Drive B (SECAM)	00	3F	2F	2F	Fix	Gain control for RGB video signal
Com Amp	00	FF	80	80	Fix	Common pulse amplitude
Com DC	00	FF	80	80	Fix	Peference DC output
AFC2 Phase	00	07	04	04	Fix	AFC2 phase control
DRVSEL	00	03	00	00	Fix	Driving ability of pulse output stage
Unknown 1	00	01	00	00	Fix	
Unknown 2	00	01	00	00	Fix	
LPF	00	01	01	01	Fix	LPF
Unknown 3	00	01	00	00	Fix	
DOTCLK Freq. Range	00	07	07	07	Fix	DOTCLK adjustment
EXCHFI	00	03	01	01	Fix	VD phase phase
PLL offset (NTSC)	00	3F	28	28	Fix	DOTCLK adjustment
PLL offset (PAL)	00	3F	32	32	Fix	DOTCLK adjustment
PLL offset (SECAM)	00	3F	2F	2F	Fix	DOTCLK adjustment
VD Phase (NTSC)	00	07	00	00	Fix	VD out phase
HD Phase (NTSC)	00	1F	14	14	Fix	HD out phase
S GP Phase	00	03	00	00	Fix	SECAM gate pulse phase
S-ID Sense	00	01	00	00	Fix	SECAM ID sensitivity
S-ID M	00	01	00	00	Fix	SECAM ID mode
HP Boost	00	01	00	00	Fix	Enhance the higher side of SECAM bell filter
P/N ID S	00	01	00	00	Fix	PAL / NTSC ID sensitivity for digital comb filter
BPF/HPF	00	01	00	00	Fix	Select chroma BPF frequency response
SECAM R-Y Black Adj	00	0F	00	00	Fix	R-Y black level adjust for SECAM
SECAM B-Y Black Adj	00	0F	00	00	Fix	R-Y black level adjust for SECAM
Gamma2-R	00	03	00	00	Fix	
Gamma2-G	00	03	00	00	Fix	
Gamma2-B	00	03	00	00	Fix	
VD Phase (PAL)	00	07	00	00	Fix	VD out phase
VD Phase (SECAM)	00	07	00	00	Fix	VD out phase
HD Phase (PAL)	00	1F	14	14	Fix	HD out phase
HD Phase (SECAM)	00	1F	10	00	Fix	HD out phase

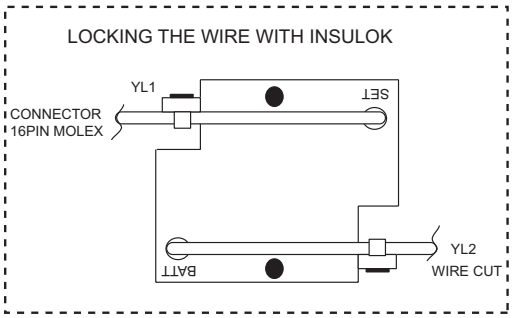
R/W CHROMA 2

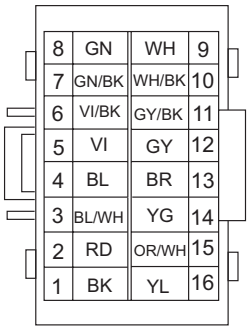
Indication	Minimum value	Maximum value	Initial value	Reference register value		Detail
USER-BRIGHT	00	FF	B1	AC	Adjust	Brightness control
SUB-BRIGHT R	00	7F	4D	4A	Adjust	Sub brightness control for R output signal
SUB-BRIGHT B	00	7F	46	44	Adjust	Sub brightness control for R output signal
CONTRAST	00	FF	45	4A	Adjust	Contrast control
SUB-CONTRAST R	00	7F	50	5B	Adjust	Controls the Y amplitude
SUB-CONTRAST B	00	7F	4B	4C	Adjust	Controls the Y amplitude
GAMMA 1	00	7F	45	45	Fix	Correction peak point
GAMMA 2	00	7F	00	00	Fix	Boost gain correction peak point
COM-LEVEL	00	7F	28	28	Fix	COM-LEVEL
COM-DC (NTSC)	00	7F	3F	3F	Fix	Peference DC output
VCO 11 (NTSC)	00	FF	4B	15.734± 0.01(kHz)	Adjust	VCO FREE-RUN adjustment (NTSC)
VCO 11 (PAL)	00	FF	4F	15.625± 0.01(kHz)	Adjust	VCO FREE-RUN adjustment (PAL)
LPF	00	07	00	00	Fix	LPF
TRAP	00	01	00	00	Fix	TRAP
SLCLP1	00	01	00	00	Fix	SLCLP1
SLCLP0	00	01	01	01	Fix	SLCLP0
H-POSITION (NTSC)	00	3F	2B	2C	Fix	H-POSITION
S/H-POSITION	00	07	01	01	Fix	S / H POSITION
HDO-POSITION	00	1F	00	00	Fix	HDO-POSITION
SLPAIR	00	01	00	00	Fix	SLPAIR
BLK-POSITION	00	1F	10	10	Fix	BLK-POSITION
S/H-POSITION2	00	07	00	00	Fix	S / H POSITION2
H POSITION (NTSC)	00	0F	00	2C	Fix	
H-POSITION (PAL)	00	3F	2C	2C	2Fix	H-POSITION
VCO 33 (NTSC)	00	FF	C5	B5	Fix	VCO FREE-RUN adjustment (NTSC)
VCO 33 (PAL)	00	FF	CB	B5	Fix	VCO FREE-RUN adjustment (PAL)
COM-DC (PAL)	00	7F	34	32	34	Peference DC output
H POSITION (PAL)	00	0F	00	00	00	

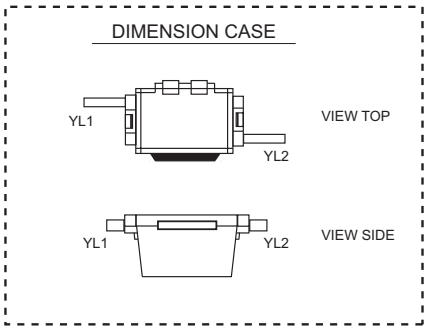
SECTION 5
TROUBLESHOOTING

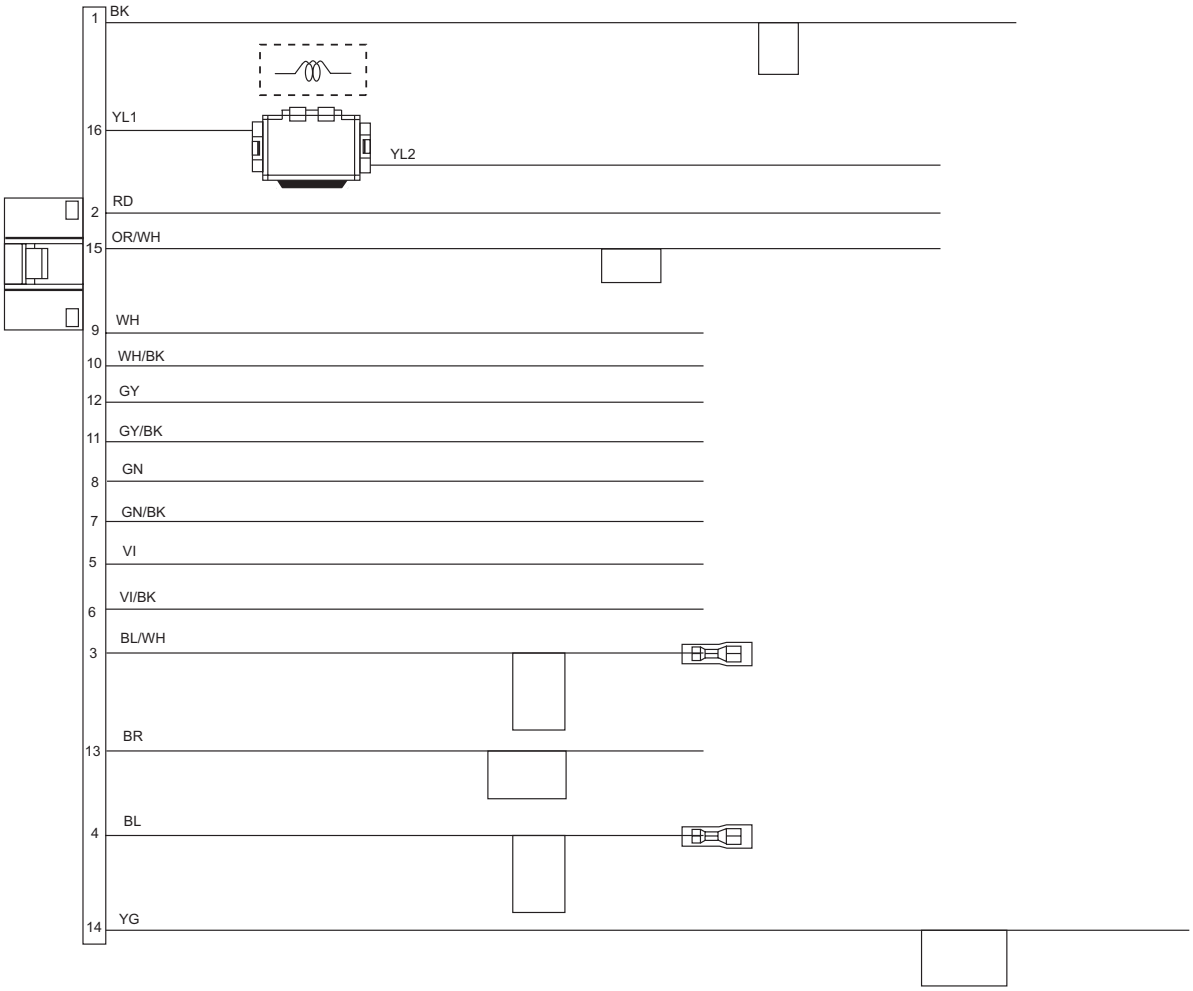
5.1 16 PIN CORD DIAGRAM (for J, U, UN, UT, A version)

BK	Black	GN	Green
RD	Red	VI	Violet
BL	Blue	GY	Gray
WH	White	YL	Yellow
BR	Brown	YG	YellowGreen
OR	Orange		



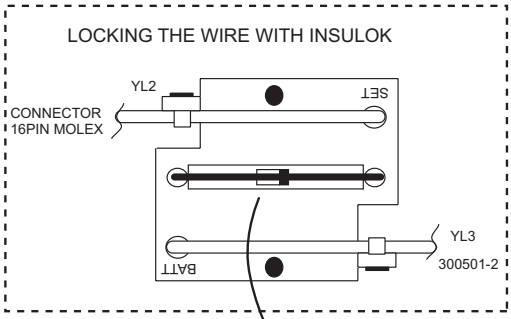


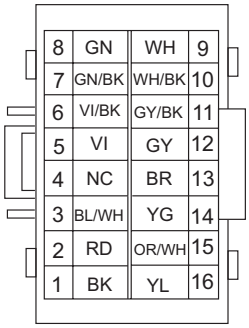


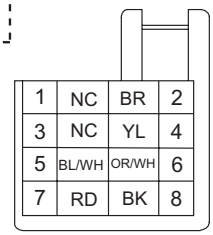


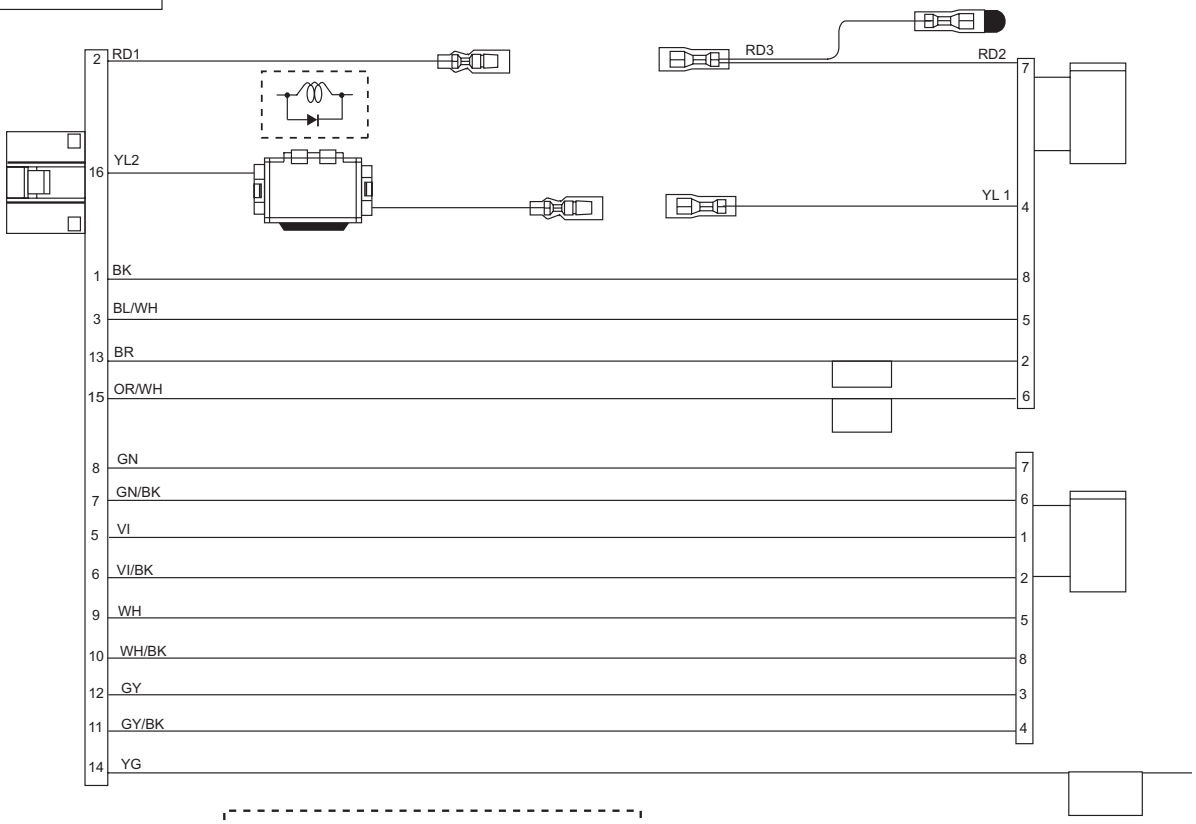
5.2 16 PIN CORD DIAGRAM (for E,EU, EE version)

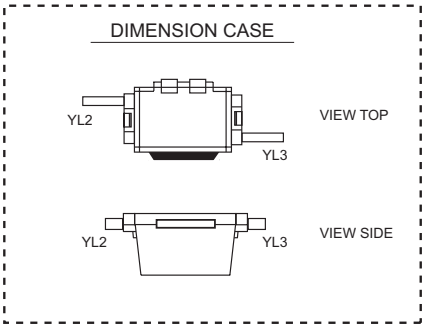
BK	Black	GN	Green
RD	Red	VI	Violet
BL	Blue	GY	Gray
WH	White	YL	Yellow
BR	Brown	YG	YellowGreen
OR	Orange		

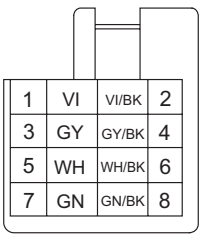












JVC

Victor company of Japan, Limited
Mobile Entertainment Business Group Mobile Entertainment Category 10-1,1chome,Ohwatari-machi,Maebashi-city,Gumma-ken, 371-8543,Japan

(No.MA304)

Printed in Japan
VPT

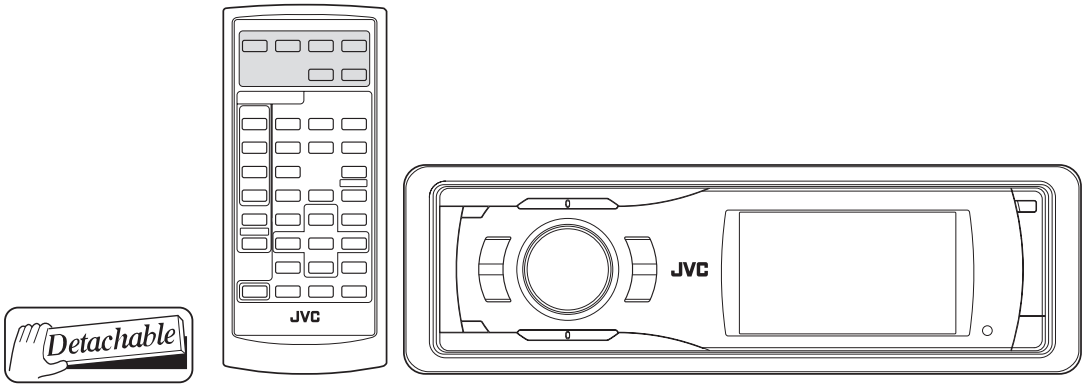
JVC

SCHEMATIC DIAGRAMS

DVD/CD RECEIVER

KD-AVX11J,KD-AVX11E,KD-AVX11EU
KD-AVX11EE,KD-AVX11U,KD-AVX11UN
KD-AVX11UT,KD-AVX11A

CD-ROM No.SML200703



for Northern America for Europe

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

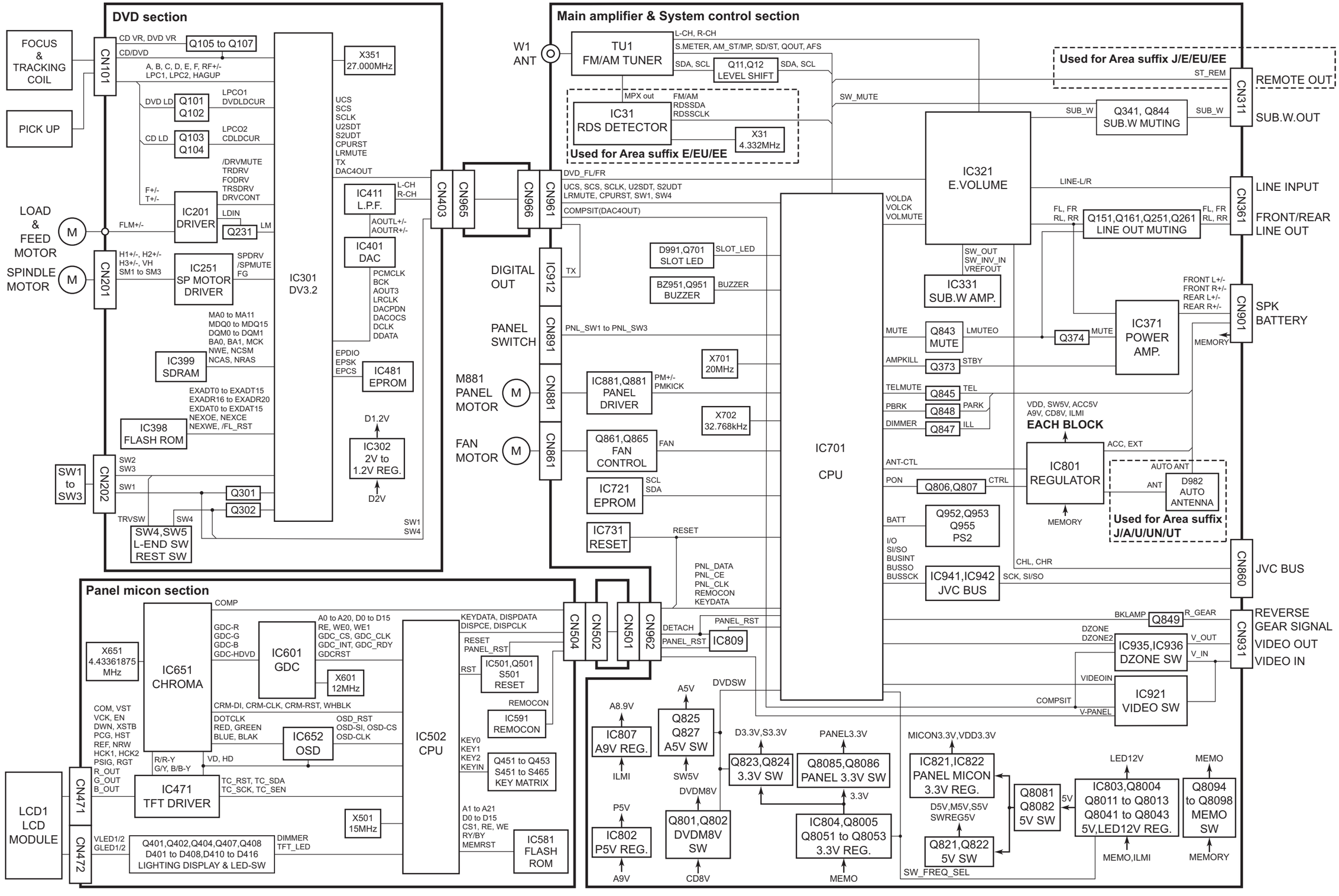
No.MA304SCH
2007/3

Safety precaution

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

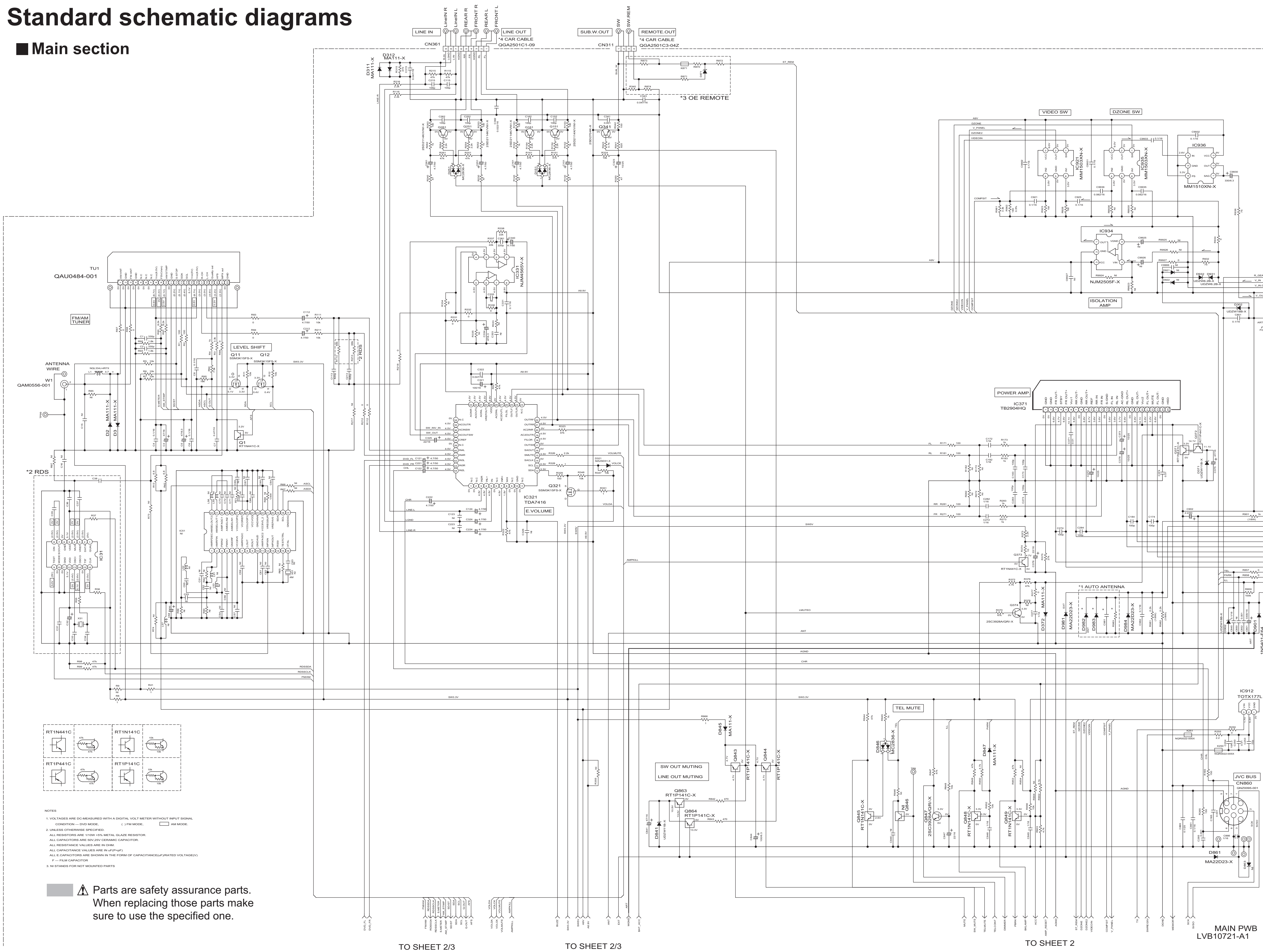
⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

Block diagram



Standard schematic diagrams

■ Main section



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

*1 AUTO ANTENNA

	KD-AVX11 E/EU/EE	KD-AVX11 J	KD-AVX11 U/UN/UT/A
D982	NI	MA22D23-X	MA22D23-X
D983	NI	MA22D23-X	MA22D23-X
C981	NI	0.1	0.1
R983	NI	4.7k	4.7k

*2 RDS

	KD-AVX11 E/EU/EE	KD-AVX11 J	KD-AVX11 U/UN/UT/A
X31	QAX0263-001Z	NI	NI
IC31	LC72725KM-X	NI	NI
C31	0.01	NI	NI
C32	22/16	NI	NI
C33	33p	NI	NI
C34	33p	NI	NI
C35	560p	NI	NI
C36	0.01	NI	NI
C37	10/6.3	NI	NI
C38	330p	NI	NI
R35	0	NI	NI
R36	2.2k	NI	NI
R37	2.2k	NI	NI
R113	68k	12k	68k
R213	68k	12k	68k

*3 OE REMOTE

	KD-AVX11 E/EU/EE	KD-AVX11 J	KD-AVX11 U/UN/UT/A
K871	NQR0022-005X	NQR0022-005X	NI
D871	UDZW6.2B-X	UDZW6.2B-X	NI
R870	0	0	NI
R871	0	0	NI
R872	270	270	NI
R873	NI	NI	0
R874	0	0	NI
R345	NI	NI	0

*4 CAR CABLE

	KD-AVX11 J/E/EU/EE	KD-AVX11 U/UN/UT/A
LINE IN LINE OUT VIDEO IN/OUT REVERCE GEAR SINGAL	QAM0967-001	QAM0967-001
SUB.W.OUT OE REMOTE	QAM0969-001	QAM0968-001

*5 POWER CODE

	KD-AVX11 E/EU/EE	KD-AVX11 J/U/UN/UT/A
POWER CODE	QAM0970-001	QAM0971-001

■ Micon section

TO SHEET 1/3

TO SHEET 1/3

TO SHEET 3/3
CN962

TO LVB10725
CN966

CPU
IC701
UPD78F1167GC

EEPROM
IC741
BR24L32FVM-X

REGULATOR
IC801
R2S25400DS-E

FAN CONTROL

PANEL MICON
3.3V REG

PANEL DRIVER
IC881 BA6956AN

JVC BUS
IC941
TC7WH125FU-X
IC942
TC7WT126FU-X

SLOT LED

RESET

IC802
MM1595AF-X

IC807
BA00CC0WFP-X

IC809
TC7SU04F-X

IC731

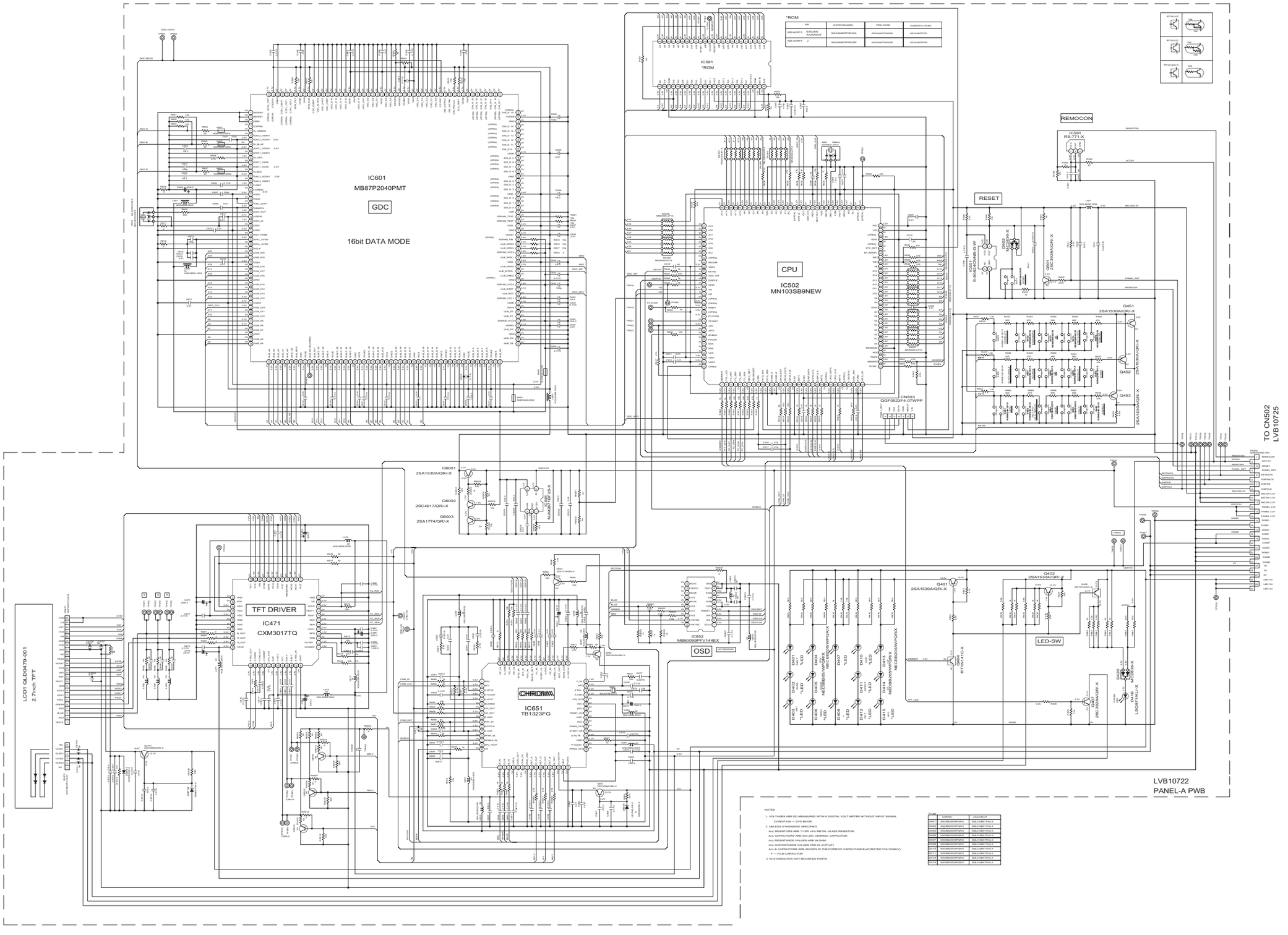
*6 AREA

	KEI-AVX11 A/W	KEI-AVX11 R/BW	KEI-AVX11 V/WTR	KEI-AVX11 P	KEI-AVX11 T
R7102	27k	33k	39k	47k	33k
R7103	20k	15k	8.2k	11k	100k

NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL
CONDITION ··· DVD MODE. ( ) FM MODE. AM MODE.
2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/10W +5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V,20V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM.
ALL CAPACITANCE VALUES ARE IN uF(P=pF)
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
F ··· FILM CAPACITOR
3. NI STANDS FOR NOT MOUNTED PARTS

MAIN PWB
LVB10721-A1

■ Panel micon section



*ROM

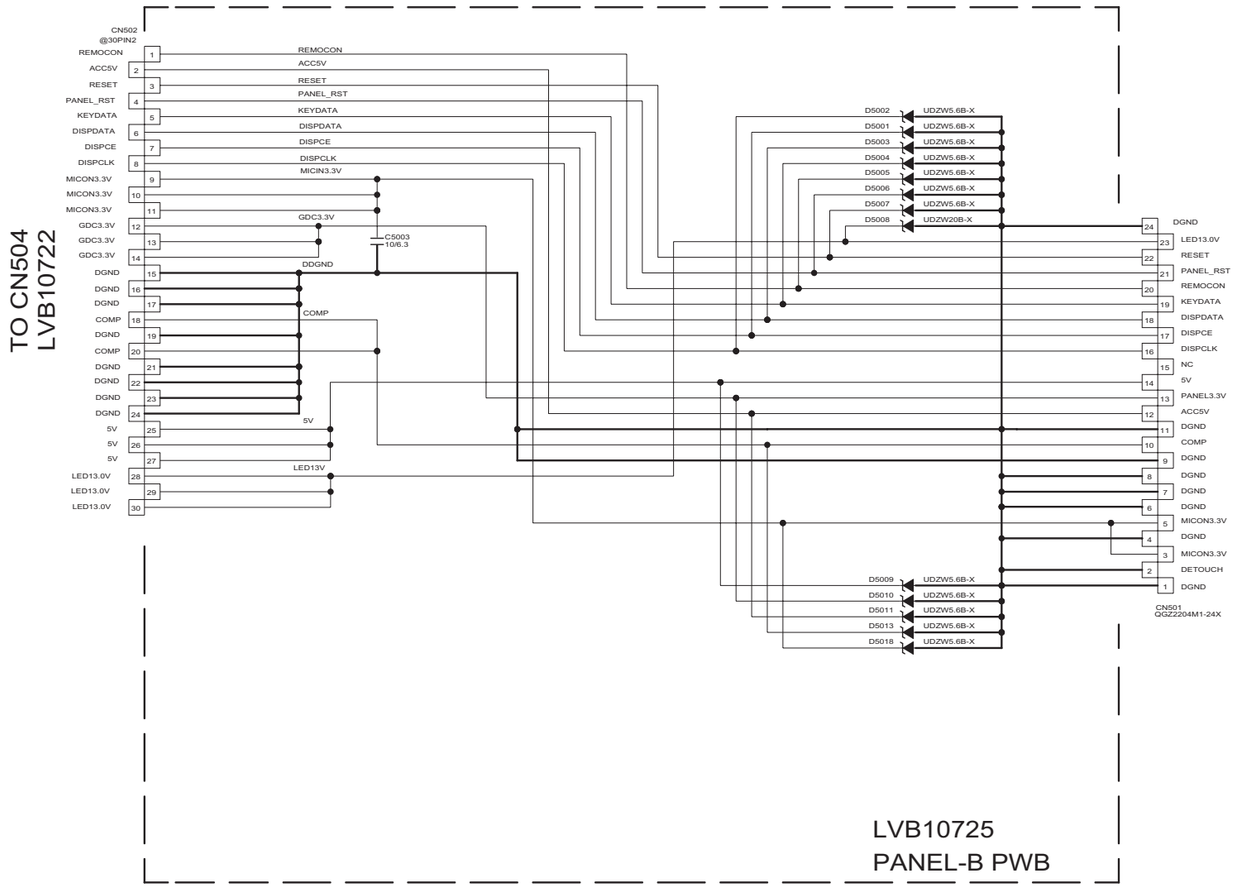
"MP"	ICPROGRAM(G)	FPW WARE	ICMICRO C-ROM)
KD-AVX11	B/EURE-A/JU/NU/T	SIG19AN07FY8013A	SIG19AN07YAG
KD-AVX11	/	SIG32AN07FY8022P	SIG32AN07YAG
		SIG32AN07FY8032P	SIG32AN07YAG

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL CONDITION – DVD MODE.
2. UNLESS OTHERWISE SPECIFIED,
   ALL RESISTORS ARE 1/10W ×5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V J5V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF).
   ALL E CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
   " F — FILM CAPACITOR.
3. NI STANDS FOR NOT MOUNTED PARTS

PLACE	B/AE/AV	USA/CA/UT
D407	N8018B200WPQR15	RBL3108U-TTHU-X
D408	N8018B200WPQR15	RBL3108U-TTHU-X
D409	N8018B200WPQR15	RBL3108U-TTHU-X
D410	N8018B200WPQR15	RBL3108U-TTHU-X
D411	N8018B200WPQR15	RBL3108U-TTHU-X
D412	N8018B200WPQR15	RBL3108U-TTHU-X
D413	N8018B200WPQR15	RBL3108U-TTHU-X
D414	N8018B200WPQR15	RBL3108U-TTHU-X
D415	N8018B200WPQR15	RBL3108U-TTHU-X

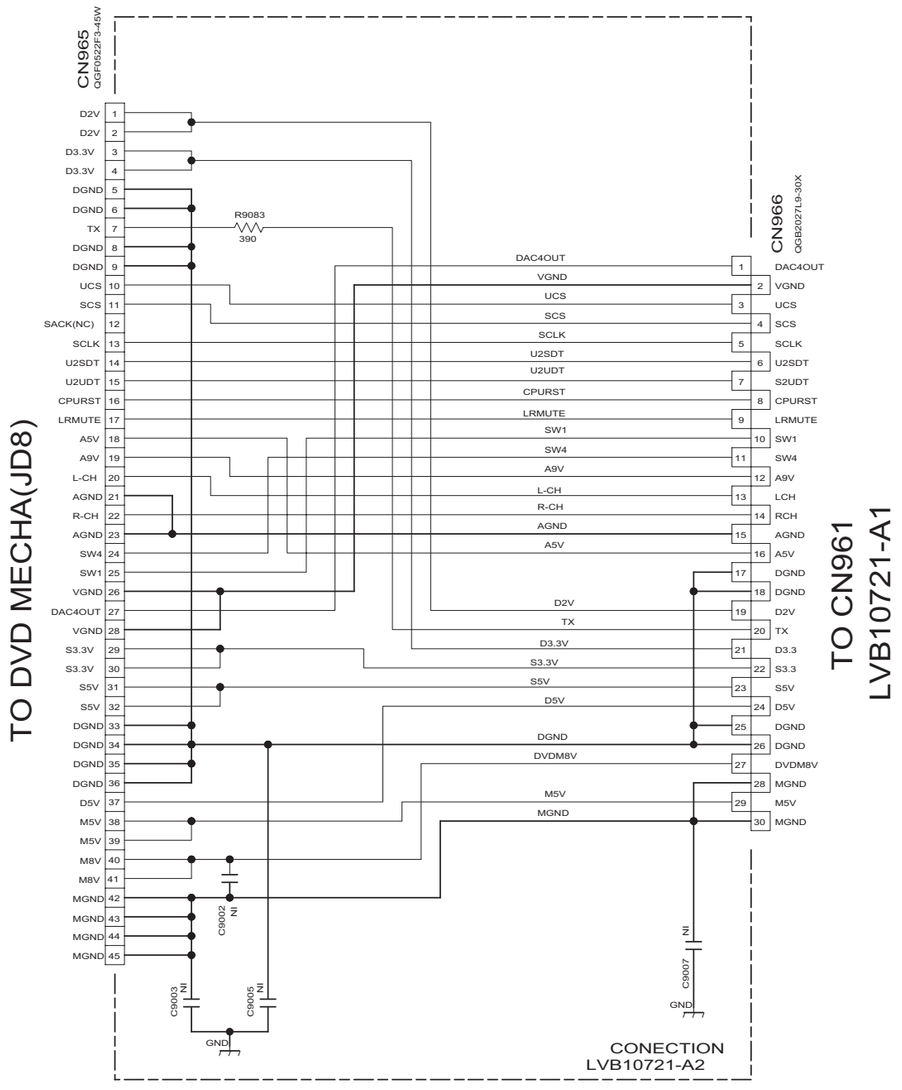
■ Panel connection section



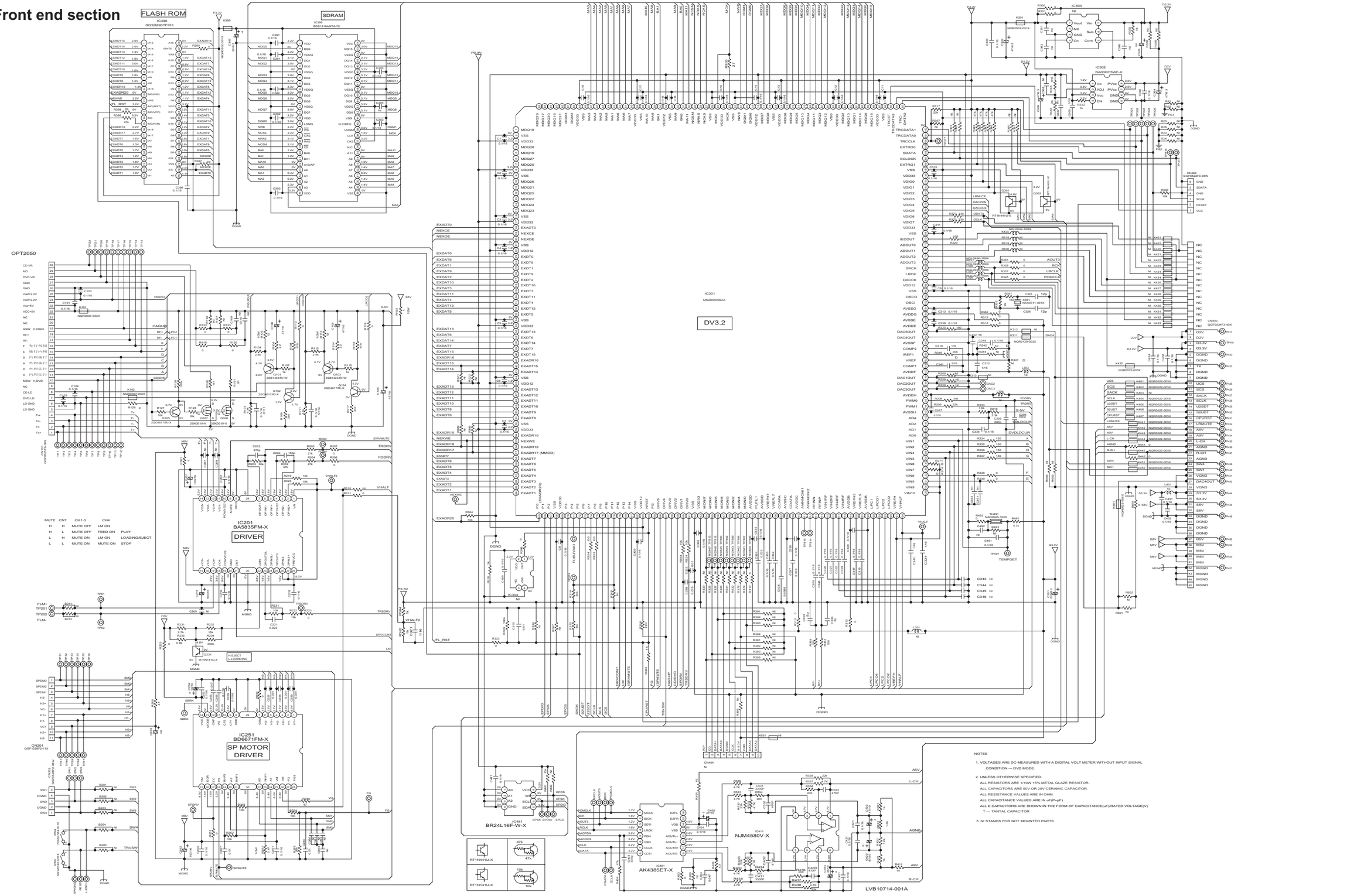
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL
   CONDITION --- DVD MODE
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W +5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V,25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
   F --- FILM CAPACITOR
3. NI STANDS FOR NOT MOUNTED PARTS

■ Connection section



■Front end section



MUTE	CNT	CH1-3	CH4	
H	H	MUTE OFF	LM ON	
H	L	MUTE OFF	FEED ON	PLAY
L	H	MUTE ON	LM ON	LOADING/EJECT
L	L	MUTE ON	MUTE ON	STOP

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL
   CONDITION --- DVD MODE.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/10W +5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
   T --- TANTAL CAPACITOR
3. NI STANDS FOR NOT MOUNTED PARTS

Printed circuit boards

■ Main board

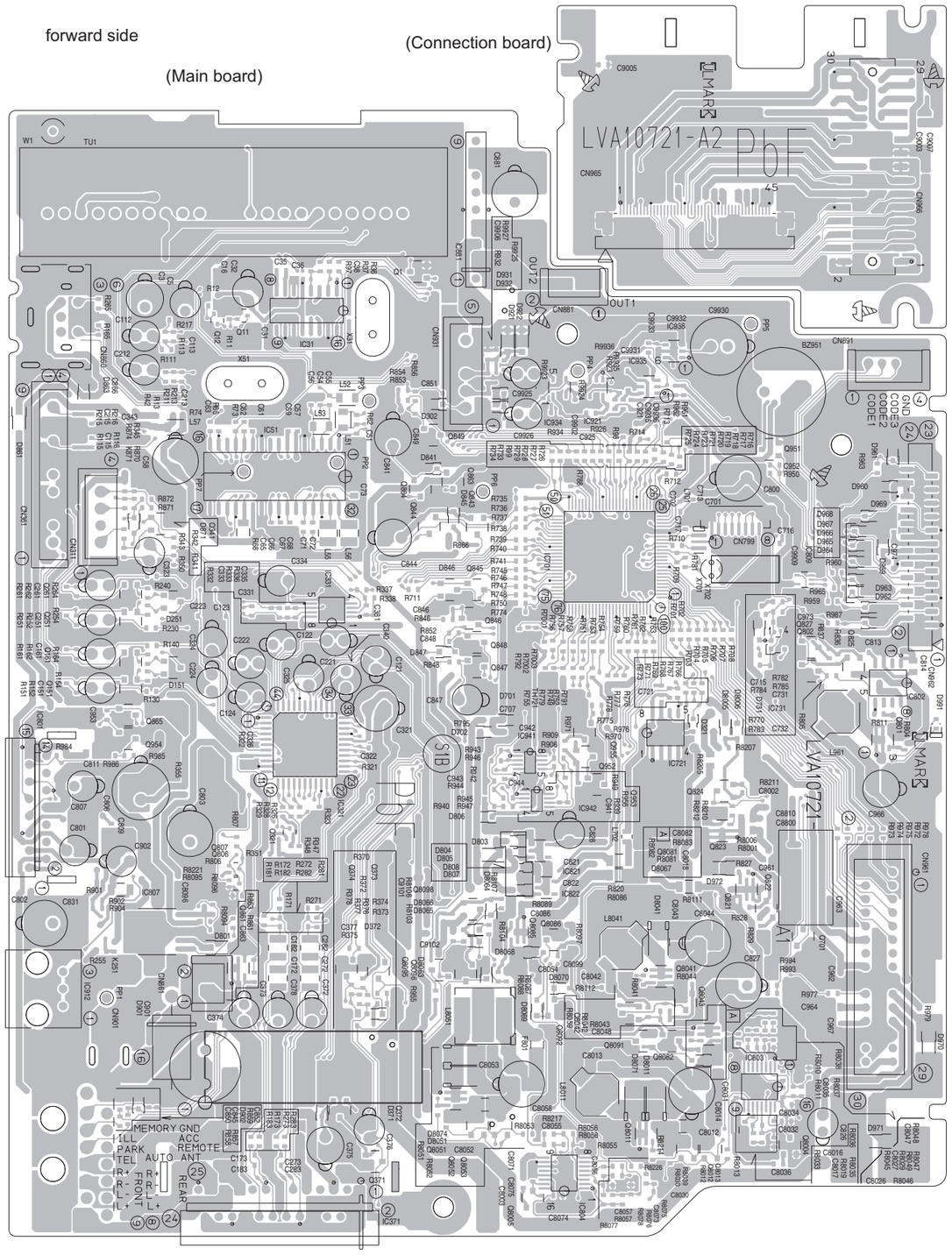
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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

forward side

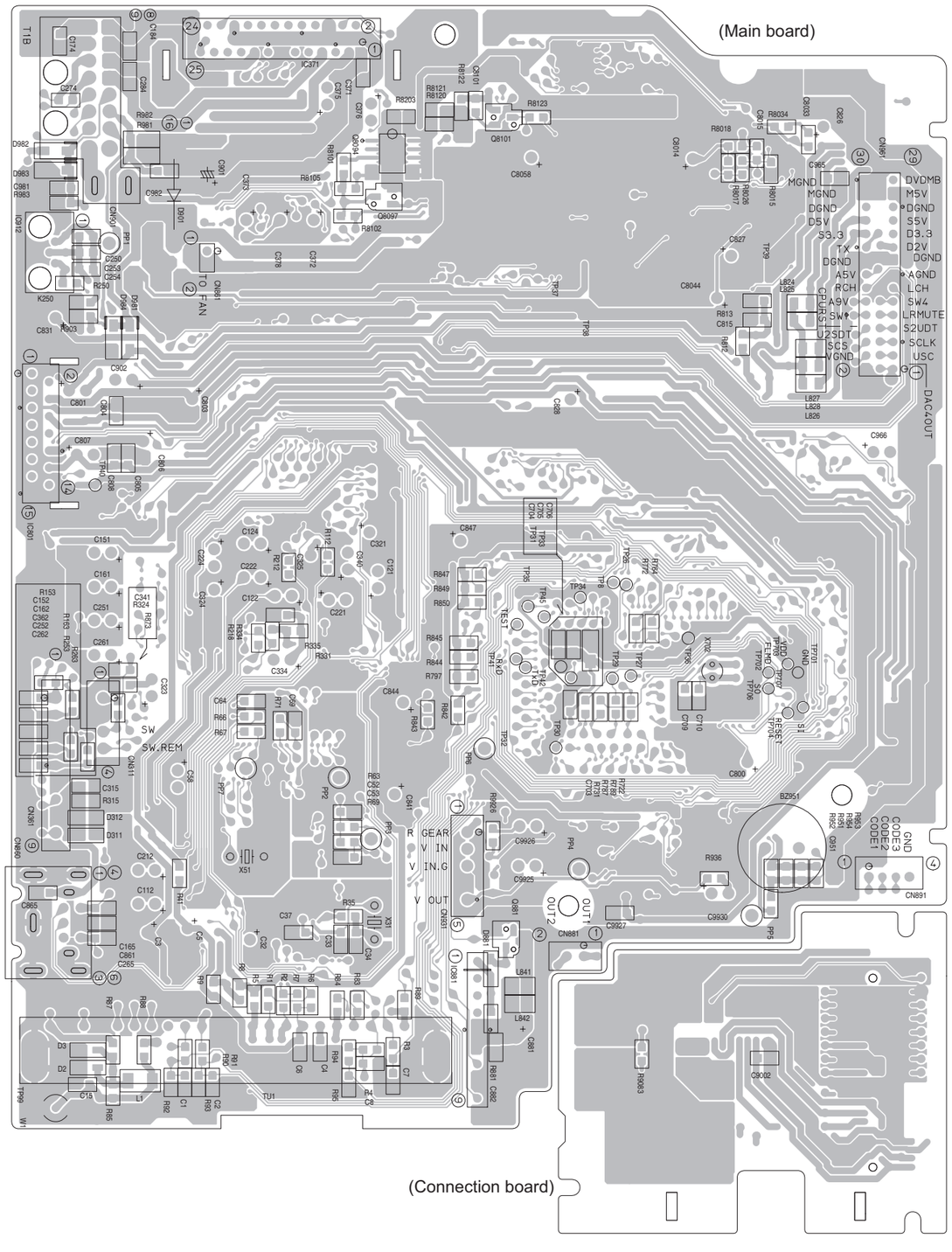
(Main board)

(Connection board)



reverse side

(Main board)



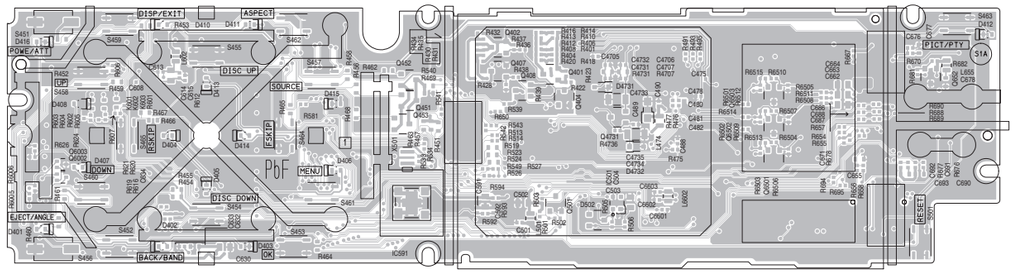
(Connection board)

■ Panle-A board

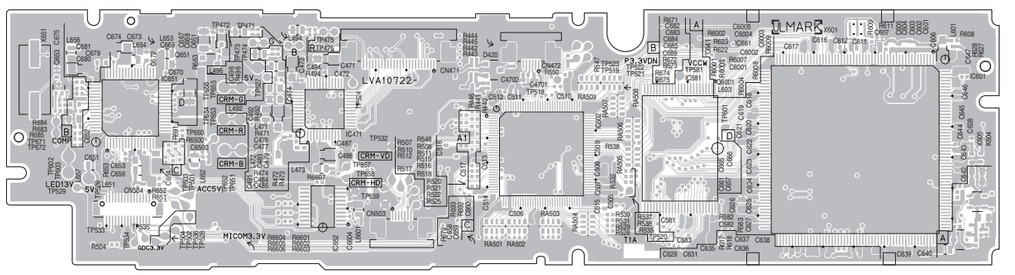
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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

forward side



reverse side

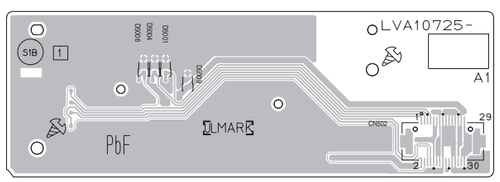


■ Panle-B board

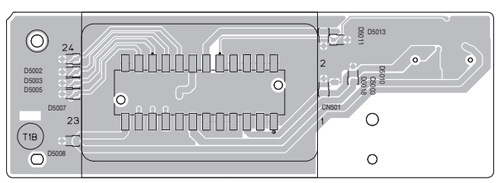
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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

forward side



reverse side

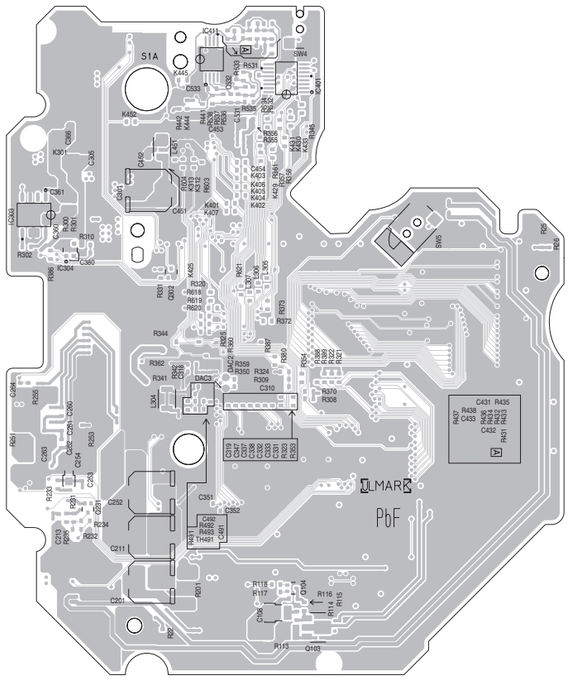


■ Front end board

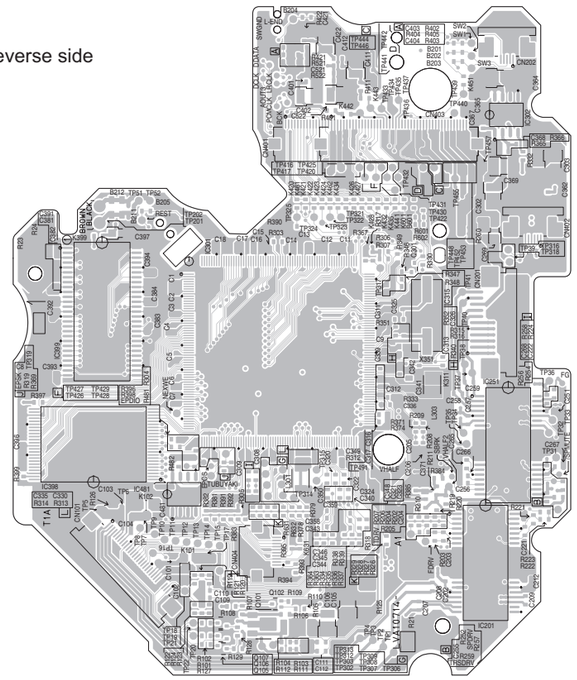
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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

forward side



reverse side



< MEMO >

JVC

Victor Company of Japan, Limited
Mobile Entertainment Business Group Mobile Entertainment Category 10-1,1chome,Ohwatari-machi,Maebashi-city,Gumma-ken,371-8543,Japan

(No.MA304SCH)

Printed in Japan
VPT

PARTS LIST

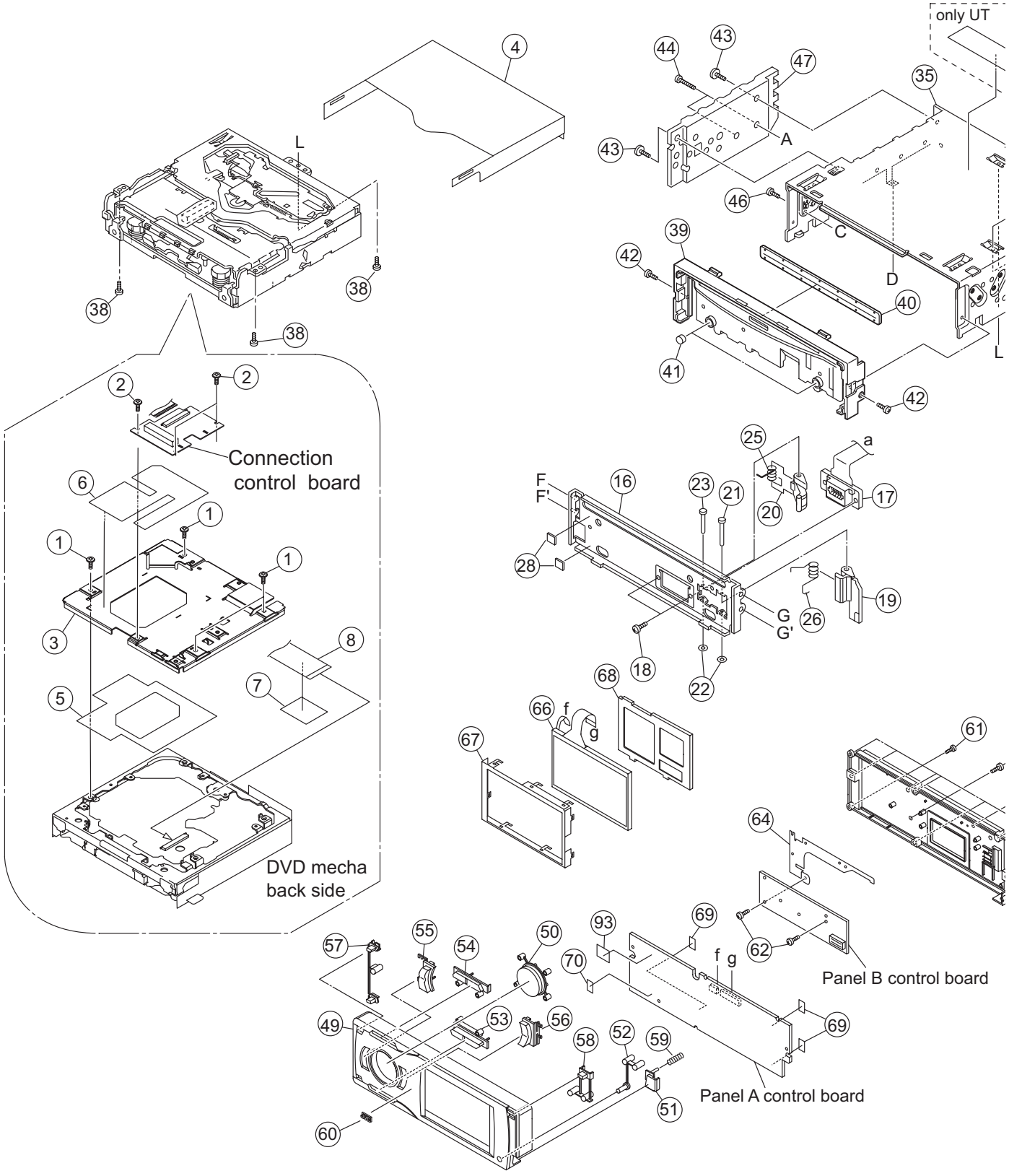
KD-AVX11J,KD-AVX11E,KD-AVX11EU, KD-AVX11EE,KD-AVX11U,KD-AVX11UN, KD-AVX11UT,KD-AVX11A

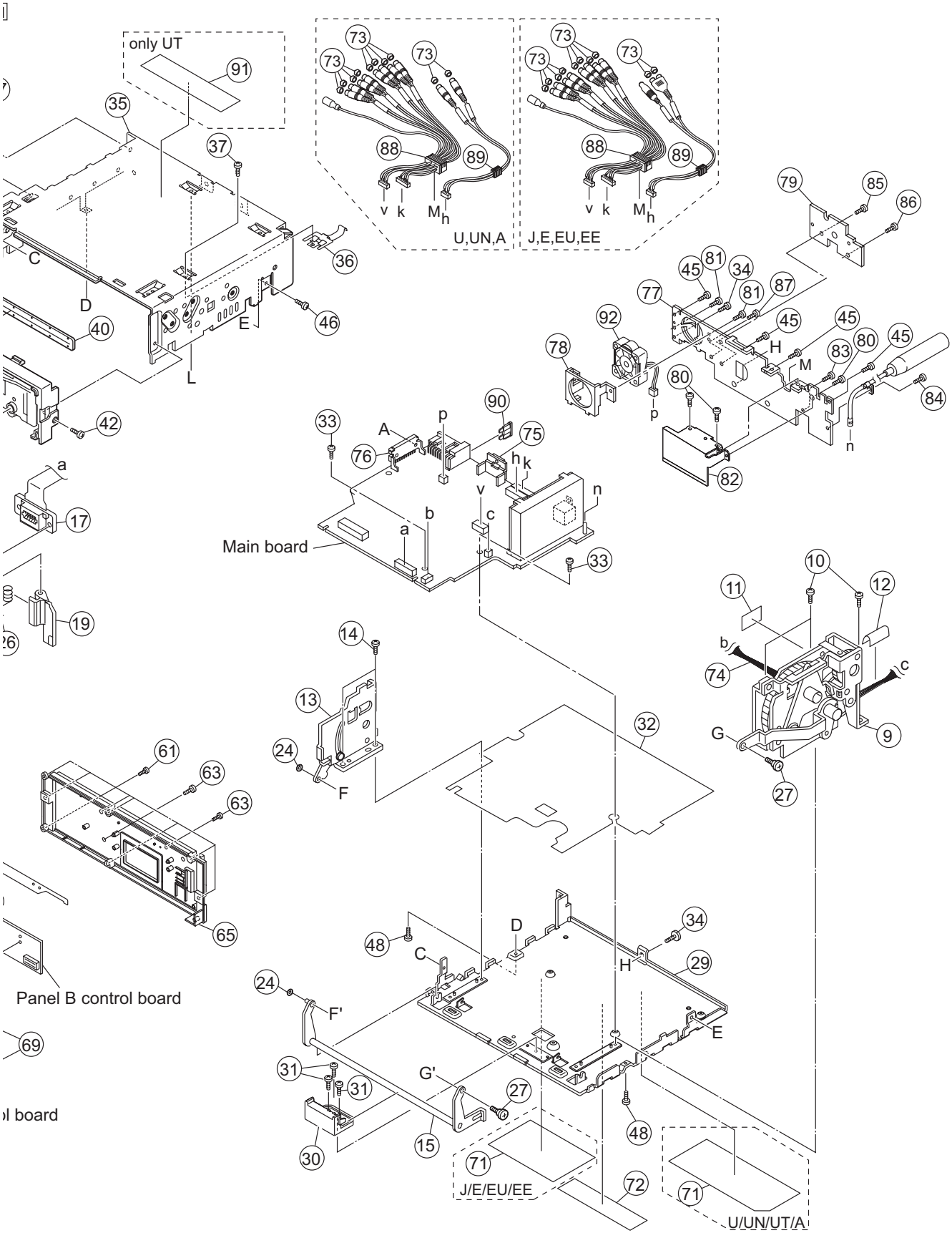
* All printed circuit boards and its assemblies are not available as service parts.

- Contents -

Exploded view of general assembly and parts list

Block No. M 1 M M




only UT
U,UN,A
J,E,EU,EE
Main board
Panel B control board
J/E/EU/EE
U/UN/UT/A

General Assembly

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

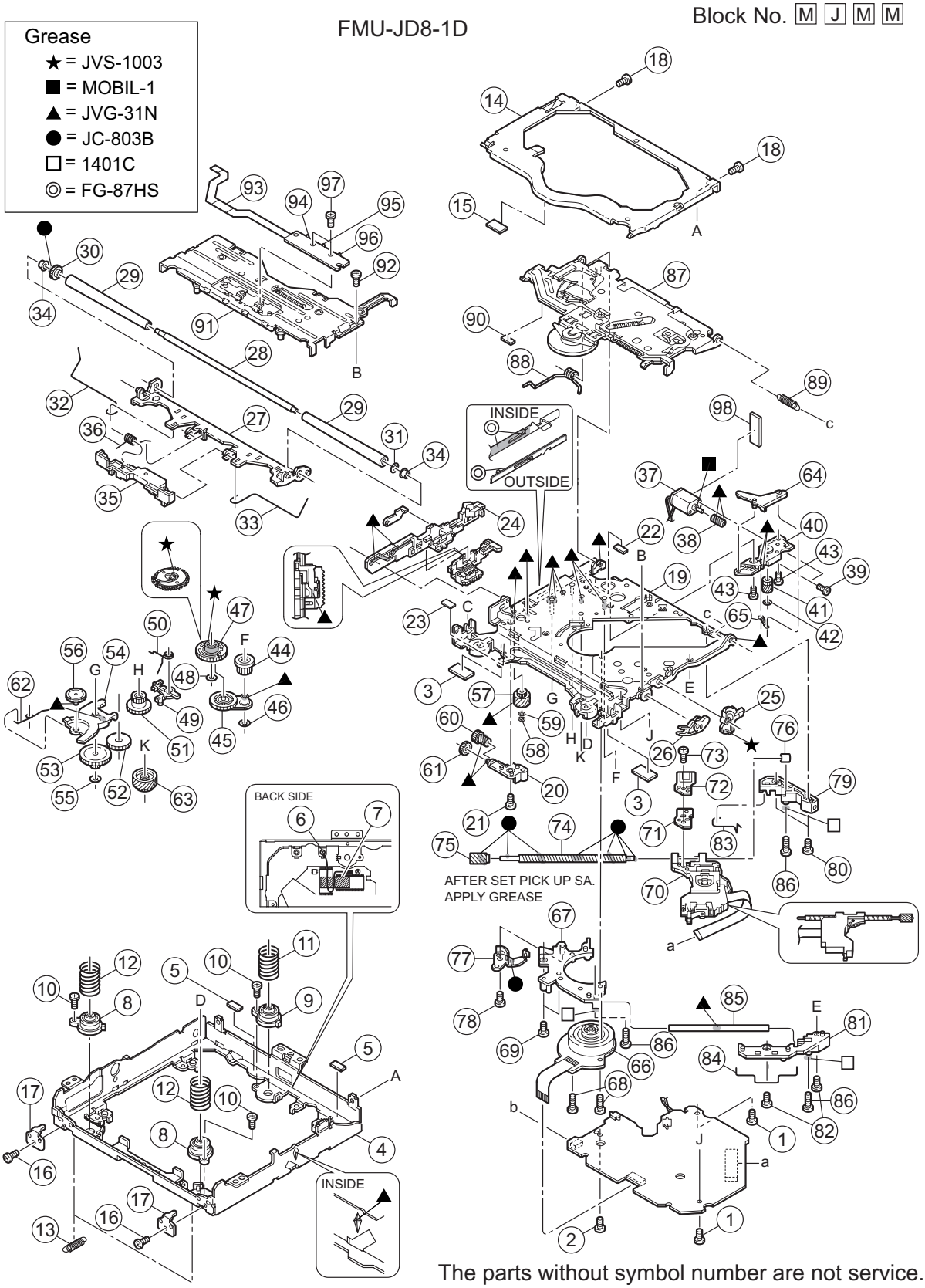
⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LV41200-004A	SPECIAL SCREW	(x4)	
	2	LV41200-004A	SPECIAL SCREW	(x3)	
	3	LV22471-001A	PWB BRACKET		
	4	LV22474-002A	INSULATOR MECHA		
	5	LV44854-002A	INSULATOR(M-B)		
	6	LV44855-001A	INSULATOR(B-P)		
	7	GE40278-001A	SHEET		
	8	QUQU05-4507AC-E	FFC WIRE	45pin 7cm	
	9	GE20156-001A	GEAR BKT UNIT		
	10	LV40865-002A	SCREW	(x3)	
	11	LV40847-002A	SPACER		
	12	FSYH4036-100	SHEET		
	13	GE30968-002A	LEVER BKT UNIT		
	14	LV40865-002A	SCREW	(x2)	
	15	GE30964-003A	LOWER LEVER ASS		
	16	LV36626-004A	FRONT BKT ASSY		
	17	QNZ0836-002	CAR CONNECTOR		
	18	QYSPSGU2040ZA	TAP SCREW	M2 x 4mm(x2)	
	19	LV35484-001A	DETACH LEVER		
	20	GE30973-001A	KICK LEVER		
	21	GE40192-002A	SHAFT		
	22	QYWDL123525	SLIT WASHER	3.5mm/1.2mm x 0.25mm(x2)	
	23	GE40193-002A	SHAFT		
	24	QYWDL215025	SLIT WASHER	5mm/2.1mm x 0.25mm(x2)	
	25	GE40194-001A	T SPRING		
	26	GE40195-002A	T SPRING		
	27	LV42181-002A	SPECIAL SCREW	(x2)	
	28	LV43971-001A	ABSORBER	(x2)	
	29	LV11219-002A	BOTTOM CHASSIS		
	30	LV36625-001A	FPC GUIDE		
	31	LV40865-002A	SCREW	(x3)	
	32	LV36627-002A	INSULATER		
	33	LV41200-004A	SPECIAL SCREW	(x2)	
	34	LV41200-004A	SPECIAL SCREW	(x2)	
	35	LV10970-004A	TOP CHASSIS		
	36	LV35751-001A	EARTH SPRING		
	37	LV44800-004A	SPECIAL SCREW		
	38	LV44800-004A	SPECIAL SCREW	(x3)	
	39	LV36623-002A	F.CHASSIS ASSY		
	40	GE40156-001A	BLIND		
	41	GE40196-002A	ABSORBER	(x2)	
	42	QYSPSP2003ZA	SCREW	M2 x 3mm(x2)	
	43	LV44800-001A	SPECIAL SCREW	(x2)	
	44	LV44800-003A	SPECIAL SCREW	(x2)	
	45	LV41200-004A	SPECIAL SCREW	(x4)	
	46	LV41200-004A	SPECIAL SCREW	(x2)	
	47	LV35331-003A	SIDE HEAT SINK		
	48	LV44800-001A	SPECIAL SCREW	(x2)	
	49	LV22433-004A	PANEL ASSY		J
	49	LV22433-005A	PANEL ASSY		E,EU,EE
	49	LV22433-006A	PANEL ASSY		U,UN,UT,A
	50	LV37229-007A	BUTTON ASSY(UD)		J
	51	LV37221-003A	BUTTON (DETACH)		E
	52	LV37222-001A	BUTTON(RESET)		
	53	LV37223-002A	BUTTON(ENT)		
	54	LV37224-002A	BUTTON(DISP)		
	55	LV37225-001A	BUTTON(+-)		
	56	LV37226-001A	BUTTON(SRC)		
	57	LV37227-001A	BUTTON(POWER)		
	58	LV37228-001A	BUTTON(TP)		J,U,UN,UT,A
	58	LV37228-002A	BUTTON(TP)		E,EU,EE
	59	LV44055-001A	COMPRESSION SPRING		
	60	GE40347-001A	JVC BADGE		
	61	VKZ4777-010	MINI SCREW	(x8)	
	62	VKZ4777-011	MINI SCREW	(x2)	
	63	QYSPSPU1730ZA	SCREW	M1.7 x 3mm(x2)	
	64	LV37220-002A	EARTH PLATE		
	65	LV11329-002A	REAR COVER		
	66	QLD0479-001	LCD MODULE		
	67	LV22434-001A	TFT CASE		
	68	LV22435-002A	TFT HOLDER		
	69	LV40848-069A	SPACER(P)	(x3)	
	70	LV44924-002A	SPACER(PWB)		
	71	LV37242-001A	NAME PLATE		J

⚠	Symbol No.	Part No.	Part Name	Description	Local
	71	LV37243-002A	NAME PLATE		E
	71	LV37244-002A	NAME PLATE		AVX11EU
	71	LV37464-001A	NAME PLATE		EE
	71	LV37463-001A	NAME PLATE		U,UT
	71	LV37465-001A	NAME PLATE		UN
	71	LV37245-001A	NAME PLATE		A
	72	LV44603-003A	LASER CAUTION		
	73	GE40101-001A	PIN CAP	(x10)	
	74	QJJ010-040904-E	SIN CR C-C WIR		
	75	LV41993-002A	REG BKT		
	76	LV43967-001A	IC BRACKET		
	77	LV37329-001A	REAR BRACKET		
	78	LV43966-001A	FAN BRACKET		
	79	LV37215-001A	REAR HEAT SINK		
	80	GE40377-002A	SCREW	(x3)	
	81	GE40377-002A	SCREW	(x2)	
	82	LV35406-001A	WIRE COVER		
	83	GE40377-002A	SCREW		
	84	GE40377-002A	SCREW		
	85	LV44800-001A	SPECIAL SCREW		
	86	GE40377-002A	SCREW		
	87	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm	
	88	QAM0967-001	CAR CABLE		
	89	QAM0969-001	CAR CABLE		J,E,EU,EE
	89	QAM0968-001	CAR CABLE		U,UN,UT,A
⚠	90	QMFZ039-150-T	FUSE	15A	
	91	LV35755-017A	UT LABEL		UT
	92	QAR0353-001	FAN		
	93	LV44944-001A	SPACER(PWB)		

DVD mechanism assembly and parts list

Block No. M J M M

FMU-JD8-1D



The parts without symbol number are not service.

DVD mechanism

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

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	VKZ4539-056	MINI SCREW	(x2)	
	2	QYSPSFT2040ZA	TAP SCREW	M2 x 4mm	
	3	LV43481-001A	COOLING RUBBER	(x2)	
	4	LV10674-001A	CHASSIS FRAME		
	5	LV30225-0J6A	SPACER	(x2)	
	6	VKZ4539-056	MINI SCREW		
	7	VYSA1R4-056	SPACER		
	8	LV35272-001A	DAMPER(F)	(x2)	
	9	LV35273-001A	DAMPER(R)		
	10	QYSDST2005ZA	TAP SCREW	M2 x 5mm(x3)	
	11	LV43039-001A	DAMPER SP.(R)		
	12	LV43849-001A	DAMPER SP(F2)	(x2)	
	13	LV43041-001A	FLOATING SPRING	(x2)	
	14	LV10675-002A	TOP COVER		
	15	LV30225-0J5A	SPACER		
	16	VKZ4539-056	MINI SCREW	(x2)	
	17	LV33669-001A	STOPPER	(x2)	
	18	VKZ4539-056	MINI SCREW	(x2)	
	19	LV21297-004A	CHAS. BASE ASSY		
	20	LV33608-003A	GEAR HOLDER		
	21	VKZ4539-056	MINI SCREW		
	22	LV43561-002A	ABSORBER		
	23	LV30225-0J5A	SPACER		
	24	LV36831-001A	SLIDE CAM ASSY2		
	25	LV33610-002A	FLOATING ARM		
	26	LV33611-001A	CONNECT ARM		
	27	LV33678-003A	LOADING A. ASSY		
	28	LV43049-001A	LOADING SHAFT		
	29	LV43052-003A	ROLLER	(x2)	
	30	LV33612-001A	LOADING GEAR		
	31	QYWFM124013	WASHER	4mm/1.2mm x 0.13mm	
	32	LV43053-002A	ROD(L)		
	33	LV43054-003A	ROD(R)		
	34	LV43001-001A	COLLAR	(x2)	
	35	LV21285-003A	PROTECTOR		
	36	LV43055-001A	PROTECTOR SP.		
	37	QAR0373-002	MOTOR		
	38	LV43002-002A	WORM GEAR		
	39	QYSPSPT2025MA	SCREW	M2 x 2.5mm(x2)	
	40	LV33679-002A	MOTOR H. ASSY		
	41	LV33614-003A	WORM WHEEL		
	42	QYWDL1230250	SLIT WASHER	3mm/1.2mm x 0.25mm	
	43	VKZ4539-056	MINI SCREW	(x2)	
	44	LV33615-001A	GEAR 2		
	45	LV43057-004A	IDLER ARM ASSY		
	46	QYWDL1635252	SLIT WASHER	3.5mm/1.6mm x 0.25mm	
	47	LV21286-001A	CONTROL CAM		
	48	QYWDL1230196	SLIT WASHER	3mm/1.2mm x 0.19mm	
	49	LV33616-003A	LOAD LOCK LEV		
	50	LV43060-001A	CAM SPRING		
	51	LV43005-001A	GEAR 4		
	52	LV43006-003A	GEAR 5		
	53	LV33617-003A	GEAR 6		
	54	LV33618-002A	LOADING G. ARM		
	55	QYWDL1635252	SLIT WASHER	3.5mm/1.6mm x 0.25mm	
	56	LV43007-003A	GEAR 7		
	57	LV33619-002A	GEAR 8		
	58	LV42132-001A	E RING		
	59	QYWFM215013	WASHER	5mm/2.1mm x 0.13mm	
	60	LV33620-001A	GEAR 9		
	61	LV43008-001A	GEAR10		
	62	LV43061-001A	LOAD SPRING		
	63	LV33621-001A	FEED GEAR		
	64	LV33622-003A	TRIGGER ARM		
	65	LV43062-001A	FEED TRI.SPRING		
	66	QAR0240-002	SPINDEL MOTOR		
	67	LV21287-003A	SPINDLE BASE		
	68	LV44169-001A	SPECIAL SCREW	(x2)	
	69	VKZ4539-056	MINI SCREW	(x2)	
	70	QAL0901-001	PICK UP		
	71	LV34583-002A	CD RACK PLATE		
	72	LV34579-001A	CD RACK SPRING		
	73	LV43903-002A	MINI TAP SCREW		
	74	LV43037-001A	LEAD SCREW		

⚠	Symbol No.	Part No.	Part Name	Description	Local
	75	LV43010-001A	L.S.GEAR		
	76	LV43063-001A	L.S.COLLAR		
	77	LV43011-001A	THRUST SPRING		
	78	QYSPSFT2040ZA	TAP SCREW	M2 x 4mm	
	79	LV33624-001A	HOLDER(M)		
	80	VKZ4539-056	MINI SCREW	(x2)	
	81	LV22130-001A	HOLDER(S) 2		
	82	VKZ4539-056	MINI SCREW	(x2)	
	83	LV43064-001A	ROD(M)		
	84	LV43065-001A	ROD(S)		
	85	LV43066-001A	SUB SHAFT		
	86	VKZ4730-003	SPECIAL SCREW	(x3)	
	87	LV21298-008A	CLAMPER UNIT		
	88	LV43070-001A	CLAMPER SPRING		
	89	LV43355-001A	CLAMPER2 SPRING		
	90	LV30225-0J6A	SPACER		
	91	LV22185-002A	FRONT UNIT (C)		
	92	VKZ4539-056	MINI SCREW		
	93	LVB30012-002A	SW FPC		
	94	NSW0187-001	SWITCH	S1	
	95	NSW0187-001	SWITCH	S1	
	96	NSW0187-001	SWITCH	S1	
	97	VKZ4539-055	MINI SCREW	(x2)	
	98	VYSA1R3-035	SPACER		

Electrical parts list

Main board

Block No. [0][1]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC31	LC72725KM-X	IC		E,EU, EE
IC321	TDA7416	IC		
IC331	NJM4565V-X	IC		
IC371	TB2904HQ	IC		
IC701	UPD78F1167GC5A	IC(PROGRAMD)		
IC721	BR24L32F-W-X	IC(DIGITAL)		
IC731	S-80824CNNB-G-W	IC		
IC801	R2S25400DS-E	IC		
IC802	MM1595AF-X	IC		
IC803	BA9743AFV-X	IC		
IC804	BA9743AFV-X	IC		
IC807	BA00CC0WFP-X	IC		
IC809	TC7S32FU-X	IC		
IC821	MM3273DN-X	IC		
IC822	MM3273DN-X	IC		
IC881	BA6956AN	IC		
IC912	TOTX177L	OPTICAL JACK		
IC921	MM1503XN-X	IC		
IC935	MM1503XN-X	IC		
IC936	MM1510XN-X	IC		
IC941	TC7WH125FU-X	IC		
IC942	TC7WT126FU-X	IC		
Q1	RT1N441C-X	TRANSISTOR		
Q11	SSM3K15FS-X	MOS FET		
Q12	SSM3K15FS-X	MOS FET		
Q151	2SD2114K/VW/-X	TRANSISTOR		
Q161	2SD2114K/VW/-X	TRANSISTOR		
Q251	2SD2114K/VW/-X	TRANSISTOR		
Q261	2SD2114K/VW/-X	TRANSISTOR		
Q321	SSM3K15FS-X	MOS FET		
Q341	2SD2704K-X	TRANSISTOR		
Q371	RT1N441C-X	TRANSISTOR		
Q372	RT1P441C-X	DIGI TRANSISTOR		
Q373	RT1N441C-X	TRANSISTOR		
Q374	2SC3928A/QR/-X	TRANSISTOR		
Q701	RT1N141C-X	DIGI TRANSISTOR		
Q801	RSQ030P03-W	MOS FET		
Q802	RT1N141C-X	DIGI TRANSISTOR		
Q806	RT1N441U-X	TRANSISTOR		
Q807	RT1P141U-X	TRANSISTOR		
Q821	RSQ030P03-W	MOS FET		
Q822	2SC3928A/QR/-X	TRANSISTOR		
Q823	RSQ030P03-W	MOS FET		
Q824	RT1N141C-X	DIGI TRANSISTOR		
Q825	2SA1530A/QR/-X	TRANSISTOR		
Q827	RT1N141C-X	DIGI TRANSISTOR		
Q843	RT1P141C-X	DIGI TRANSISTOR		
Q844	RT1P141C-X	DIGI TRANSISTOR		
Q845	RT1N141C-X	DIGI TRANSISTOR		
Q847	2SC3928A/QR/-X	TRANSISTOR		
Q848	RT1N141C-X	DIGI TRANSISTOR		
Q849	RT1N141C-X	DIGI TRANSISTOR		
Q861	RSQ030P03-W	MOS FET		
Q863	RT1P141C-X	DIGI TRANSISTOR		
Q864	RT1P141C-X	DIGI TRANSISTOR		
Q865	RT1N441C-X	TRANSISTOR		
Q881	RT1N141C-X	DIGI TRANSISTOR		
Q951	RT1N141C-X	DIGI TRANSISTOR		
Q952	2SA1530A/QR/-X	TRANSISTOR		
Q953	RT1N441C-X	TRANSISTOR		
Q955	2SC3928A/QR/-X	TRANSISTOR		
Q8004	RT1N441C-X	TRANSISTOR		
Q8005	RT1N441C-X	TRANSISTOR		
Q8011	RSQ030P03-W	MOS FET		
Q8012	2SC3928A/QR/-X	TRANSISTOR		
Q8013	2SA1530A/QR/-X	TRANSISTOR		
Q8041	RTQ035N03-W	MOS FET		
Q8042	2SA1530A/QR/-X	TRANSISTOR		
Q8043	2SC3928A/QR/-X	TRANSISTOR		
Q8051	RSQ030P03-W	MOS FET		
Q8052	2SC3928A/QR/-X	TRANSISTOR		
Q8053	2SA1530A/QR/-X	TRANSISTOR		
Q8081	RSQ030P03-W	MOS FET		
Q8082	RT1N441C-X	TRANSISTOR		
Q8085	RSQ030P03-W	MOS FET		
Q8086	RT1N441C-X	TRANSISTOR		
Q8091	RT1N141C-X	DIGI TRANSISTOR		
Q8092	RT1N141C-X	DIGI TRANSISTOR		
Q8094	RSS060P05-X	TRANSISTOR		
Q8095	RT1N441C-X	TRANSISTOR		
Q8096	RT1N141C-X	DIGI TRANSISTOR		
Q8097	RT1P141C-X	DIGI TRANSISTOR		
Q8098	RT1P141C-X	DIGI TRANSISTOR		
D2	MA111-X	SI DIODE		
D2 or	1SS355W-X	DIODE		
D3	MA111-X	SI DIODE		
D3 or	1SS355W-X	DIODE		
D151	MC2836-X	DIODE		
D251	MC2836-X	DIODE		
D302	MA8180/M/-X	Z DIODE		
D302 or	UDZW18B-X	Z DIODE		
D311	MA111-X	SI DIODE		
D311 or	1SS355W-X	DIODE		
D312	MA111-X	SI DIODE		
D312 or	1SS355W-X	DIODE		
D321	MA2SD31-X	SB DIODE		
D371	UDZW11B-X	Z DIODE		
D371 or	MA8110/M/-X	Z DIODE		
D372	MA111-X	SI DIODE		
D372 or	1SS355W-X	DIODE		
D701	MA111-X	SI DIODE		
D701 or	1SS355W-X	DIODE		
D702	MA111-X	SI DIODE		
D702 or	1SS355W-X	DIODE		
D731	MA111-X	SI DIODE		
D731 or	1SS355W-X	DIODE		
D801	MA22D23-X	SB DIODE		
D803	MA22D23-X	SB DIODE		
D804	MA111-X	SI DIODE		
D804 or	1SS355W-X	DIODE		
D805	MA2SD31-X	SB DIODE		
D806	MA111-X	SI DIODE		
D806 or	1SS355W-X	DIODE		
D807	MA111-X	SI DIODE		
D807 or	1SS355W-X	DIODE		
D808	MA2SD31-X	SB DIODE		
D841	UDZW11B-X	Z DIODE		
D841 or	MA8110/M/-X	Z DIODE		
D845	MA111-X	SI DIODE		
D845 or	1SS355W-X	DIODE		
D846	MC2836-X	DIODE		
D847	MA111-X	SI DIODE		
D847 or	1SS355W-X	DIODE		
D861	MA22D23-X	SB DIODE		
D871	UDZW6.2B-X	Z DIODE		J,E,E U,EE
D871 or	MA8062-X	Z DIODE		J,E,E U,EE
D881	UDZW3.9B-X	Z DIODE		
D881 or	MA8039/H/-X	Z DIODE		
D901	1N5401-F64	SI DIODE		
D902	MA8180/M/-X	Z DIODE		
D902 or	UDZW18B-X	Z DIODE		
D931	UDZW6.2B-X	Z DIODE		
D931 or	MA8062-X	Z DIODE		
D932	UDZW6.2B-X	Z DIODE		
D932 or	MA8062-X	Z DIODE		
D959	UDZW6.2B-X	Z DIODE		
D959 or	MA8062-X	Z DIODE		
D960	UDZW6.2B-X	Z DIODE		
D960 or	MA8062-X	Z DIODE		
D961	UDZW6.2B-X	Z DIODE		
D961 or	MA8062-X	Z DIODE		
D962	UDZW6.2B-X	Z DIODE		
D962 or	MA8062-X	Z DIODE		

⚠ Symbol No.	Part No.	Part Name	Description	Local
D963	UDZW6.2B-X	Z DIODE		
D963	or MA8062-X	Z DIODE		
D964	UDZW6.2B-X	Z DIODE		
D964	or MA8062-X	Z DIODE		
D965	UDZW6.2B-X	Z DIODE		
D965	or MA8062-X	Z DIODE		
D966	UDZW6.2B-X	Z DIODE		
D966	or MA8062-X	Z DIODE		
D967	UDZW6.2B-X	Z DIODE		
D967	or MA8062-X	Z DIODE		
D968	UDZW6.2B-X	Z DIODE		
D968	or MA8062-X	Z DIODE		
D969	UDZW6.2B-X	Z DIODE		
D969	or MA8062-X	Z DIODE		
D970	MA22D23-X	SB DIODE		
D971	MA22D23-X	SB DIODE		
D972	MA22D23-X	SB DIODE		
D981	MA22D23-X	SB DIODE		
D982	MA22D23-X	SB DIODE		J,U,UN,UT,A
D983	MA22D23-X	SB DIODE		J,U,UN,UT,A
D984	MA22D23-X	SB DIODE		
D991	LSQ971/KL/-X	LED		
D8005	MA111-X	SI DIODE		
D8005	or 1SS355W-X	DIODE		
D8006	MA111-X	SI DIODE		
D8006	or 1SS355W-X	DIODE		
D8011	RB051L-40-X	SB DIODE		
D8041	RB051L-40-X	SB DIODE		
D8051	RB051L-40-X	SB DIODE		
D8063	MA8180/M/-X	Z DIODE		
D8063	or UDZW18B-X	Z DIODE		
D8065	MA111-X	SI DIODE		
D8065	or 1SS355W-X	DIODE		
D8066	MA111-X	SI DIODE		
D8066	or 1SS355W-X	DIODE		
D8067	UDZW6.2B-X	Z DIODE		
D8067	or MA8062-X	Z DIODE		
D8068	UDZW6.2B-X	Z DIODE		
D8068	or MA8062-X	Z DIODE		
D8069	MA111-X	SI DIODE		
D8069	or 1SS355W-X	DIODE		
D8070	MA111-X	SI DIODE		
D8070	or 1SS355W-X	DIODE		
C1	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C2	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C3	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C4	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C6	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C8	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C31	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	E,EU,EE
C32	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	E,EU,EE
C33	NDC31HJ-330X	C CAPACITOR	33pF 50V J	E,EU,EE
C34	NDC31HJ-330X	C CAPACITOR	33pF 50V J	E,EU,EE
C35	NDC31HJ-561X	C CAPACITOR	560pF 50V J	E,EU,EE
C36	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	E,EU,EE
C37	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	E,EU,EE
C38	NDC31HJ-331X	C CAPACITOR	330pF 50V J	E,EU,EE
C112	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C113	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C115	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C121	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C122	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C124	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C151	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C152	NDC31HJ-101X	C CAPACITOR	100pF 50V J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C161	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C162	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C165	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C172	NFV81CM-105X	MF CAPACITOR	1uF 16V M	
C173	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C174	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C182	NFV81CM-105X	MF CAPACITOR	1uF 16V M	
C183	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C184	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C212	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C213	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C215	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C221	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C222	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C224	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C250	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C251	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C252	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C253	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C254	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C261	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C262	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C265	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C272	NFV81CM-105X	MF CAPACITOR	1uF 16V M	
C273	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C274	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C282	NFV81CM-105X	MF CAPACITOR	1uF 16V M	
C283	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C284	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C315	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C321	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C322	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C323	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C324	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C325	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C331	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C334	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C340	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C341	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C343	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C362	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C371	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C372	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C373	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C374	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C375	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C376	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C377	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C378	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C381	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C704	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C705	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C707	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C709	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C710	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C713	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C715	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C716	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C717	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C721	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C731	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C732	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C800	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C801	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C802	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C803	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C804	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C805	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C806	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C807	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C808	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C809	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C811	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C813	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C814	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C815	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C821	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C822	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C826	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C827	QEZ0850-157Z	E CAPACITOR	150uF	
C828	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C831	QEZ0859-477Z	E CAPACITOR	470uF	
C841	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C844	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C845	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C847	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C848	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C849	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C851	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C852	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C861	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C863	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C865	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C866	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C881	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C882	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C901	QEZ0722-338	E CAPACITOR	3300uF 160V M	
C902	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C921	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C925	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C941	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C942	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C943	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C944	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C951	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C961	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C964	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C965	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C966	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C967	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C973	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C974	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C981	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	J,U,UN,UT,A
C982	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8003	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C8012	NCJ11EK-106X-R	C CAPACITOR	10uF 25V	
C8012 or	NCJ11EK-106X-A	C CAPACITOR	10uF 25V K	
C8013	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C8014	QEZ0850-157Z	E CAPACITOR	150uF	
C8015	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C8017	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C8018	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C8027	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C8030	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C8031	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8032	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C8033	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C8034	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8035	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	
C8036	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C8042	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C8043	NCJ11EK-106X-R	C CAPACITOR	10uF 25V	
C8043 or	NCJ11EK-106X-A	C CAPACITOR	10uF 25V K	
C8044	QEZ0851-686Z	E CAPACITOR	68uF	
C8047	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C8048	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C8052	NCJ11EK-106X-R	C CAPACITOR	10uF 25V	
C8052 or	NCJ11EK-106X-A	C CAPACITOR	10uF 25V K	
C8053	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C8054	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C8057	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C8058	QEZ0850-157Z	E CAPACITOR	150uF	
C8071	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8073	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C8074	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8075	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C8096	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C8099	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C8800	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8810	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C9101	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9102	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C9902	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C9909	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C9930	QERF0JM-337Z	E CAPACITOR	330uF 6.3V M	
C9931	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C9932	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C9933	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C9935	NCB31CK-823X	C CAPACITOR	0.082uF 16V K	
C9936	NCB31CK-823X	C CAPACITOR	0.082uF 16V K	
R1	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R3	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R4	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R5	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R7	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8	NRSA63J-1R0X	MG RESISTOR	1Ω 1/16W J	
R11	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R12	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R13	NRSA63J-6R8X	MG RESISTOR	6.8Ω 1/16W J	
R35	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	E,EU,EE
R36	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	E,EU,EE
R37	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	E,EU,EE
R41	NRSA63J-1R0X	MG RESISTOR	1Ω 1/16W J	
R42	NRSA63J-6R8X	MG RESISTOR	6.8Ω 1/16W J	
R83	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R84	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R87	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R88	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R89	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R90	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R91	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R92	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R93	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R94	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R95	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R98	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R99	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R111	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R113	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	J
R113	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	E,EU,EE,U,UN,UT,A
R115	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R116	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R130	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R140	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R151	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R152	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R153	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R154	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R161	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R162	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R163	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R164	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R165	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R171	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R173	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R181	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R183	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R211	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R212	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R213	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	J
R213	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	E,EU,EE,U,UN,UT,A
R215	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R216	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R218	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R230	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R240	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R250	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R251	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R252	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R253	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R254	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R255	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R261	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R262	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R263	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R264	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R265	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R271	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R273	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R281	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R283	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R315	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R321	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R322	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R323	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R324	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R326	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R328	NRSA63J-1R0X	MG RESISTOR	1Ω 1/16W J	
R329	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R331	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R332	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R336	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R337	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R338	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R341	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R342	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R343	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R345	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	U,UN, UT,A
R347	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R348	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R350	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R351	NRSA63J-1R0X	MG RESISTOR	1Ω 1/16W J	
R370	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R372	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R373	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R374	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R375	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R376	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R377	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R701	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R702	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R703	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R704	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R705	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R706	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R707	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R708	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R709	NRSA63J-106X	MG RESISTOR	10MΩ 1/16W J	
R710	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R711	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R712	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R713	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R714	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R716	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R717	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R718	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R719	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R720	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R722	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R723	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R724	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R725	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R726	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R727	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R728	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R729	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R731	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R733	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R734	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R735	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R736	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R737	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R738	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R739	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R740	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R741	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R745	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R746	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R747	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R748	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R749	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R750	NRSA63F-103X	MG RESISTOR	10kΩ 1/16W F	
R752	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R753	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R754	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R756	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R757	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R758	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R759	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R760	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R761	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R762	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R763	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R764	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R766	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R767	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R768	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R769	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R770	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R771	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R772	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R773	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R774	NRSA63F-103X	MG RESISTOR	10kΩ 1/16W F	
R775	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R776	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R777	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R778	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R779	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R781	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R782	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R783	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R784	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R785	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R789	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R791	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R792	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R795	NRSA63F-333X	MG RESISTOR	33kΩ 1/16W F	
R797	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R804	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R805	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R806	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R807	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R811	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R812	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R813	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R820	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
R827	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R828	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R829	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R836	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R837	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R842	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R843	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R844	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R845	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R847	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R848	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R849	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R850	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R852	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R853	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R856	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R857	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R858	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R859	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R861	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R863	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R866	NRSA63J-1R0X	MG RESISTOR	1Ω 1/16W J	
R870	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	J,E,E U,EE
R871	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	J,E,E U,EE
R872	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	J,E,E U,EE

⚠ Symbol No.	Part No.	Part Name	Description	Local
R873	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	U,UN, UT,A
R874	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	J,E,E U,EE
R881	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R901	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R902	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R903	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R906	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R909	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R923	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R926	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R932	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R934	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R936	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R939	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R940	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R942	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R943	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R944	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R945	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R946	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R947	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R949	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R951	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R952	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R953	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R954	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R955	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R956	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R959	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R960	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R961	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R962	NRSA63D-181X	MG RESISTOR	180Ω 1/16W D	
R963	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R965	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R970	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R971	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R972	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R973	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R974	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R975	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R976	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R977	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R978	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R979	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R981	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R982	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R983	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	J,U,U N,UT, A
R985	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R986	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R987	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R993	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R7001	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	J
R7001	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	E,EU, UN
R7001	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	EE
R7001	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	U,UT, A
R7003	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	J
R7003	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	E,EU
R7003	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	EE
R7003	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	U,UT, A
R7003	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	UN
R8001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R8006	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R8010	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R8011	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R8012	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8013	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8015	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8017	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8018	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R8019	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R8026	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R8029	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R8030	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R8033	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R8034	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R8035	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R8036	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R8037	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R8038	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R8041	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R8042	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8043	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R8044	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R8045	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R8046	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8047	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8048	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8049	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8051	NRSA63J-5R6X	MG RESISTOR	5.6Ω 1/16W J	
R8052	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8053	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8055	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8056	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R8057	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R8059	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R8075	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R8076	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R8077	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R8078	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R8081	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R8082	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8083	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8086	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
R8087	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R8088	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8089	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8094	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8095	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R8096	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R8097	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R8101	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R8102	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8103	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8104	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R8105	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8107	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8111	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
R8112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8120	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R8205	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R8207	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8210	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R8211	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R8212	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8214	NRSA63J-5R6X	MG RESISTOR	5.6Ω 1/16W J	
R8217	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R8221	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R8226	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R9083	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R9927	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L1	NQL334J-4R7X	COIL	4.7uH J	
L701	NQR0022-005X	FERRITE BEADS		
L702	NQL382M-220X	COIL	22uH M	
L824	NQL79GM-220X	COIL	22uH M	
L825	NQL79GM-220X	COIL	22uH M	
L826	NQL79GM-220X	COIL	22uH M	
L827	NQL79GM-220X	COIL	22uH M	
L828	NQL79GM-220X	COIL	22uH M	
L841	NQL79GM-100X	COIL	10uH M	
L842	NQL79GM-100X	COIL	10uH M	
L961	NQL52EM-220X	COIL	22uH M	
L8011	NQL52EM-101X	COIL	100uH M	
L8041	NQL52EM-101X	COIL	100uH M	
L8051	NQLF3EM-220X	COIL	22uH M	
BZ951	QAN0023-001Z	BUZZER		
CN311	QGA2501C3-04Z	CONNECTOR	W-B (1-4)	
CN361	QGA2501C1-09	CONNECTOR	W-B (1-9)	
CN860	QNZ0095-001	CONNECTOR		

⚠ Symbol No.	Part No.	Part Name	Description	Local
CN861	QGA2001C1-02	CONNECTOR	W-B (1-2)	
CN881	QGA2501C1-02	CONNECTOR	W-B (1-2)	
CN891	QGA2001C1-04	CONNECTOR	W-B (1-4)	
CN901	QNZ0607-001	CAR CONNECTOR		
CN931	QGA2501C3-05Z	CONNECTOR	W-B (1-5)	
CN961	QGB2027M4-30S	CONNECTOR	B-B (1-30)	
CN962	QGF1041C4-24W	CONNECTOR	FFC/FPC (1-24)	
CN965	QGF0522F3-45W	CONNECTOR	FFC/FPC (1-45)	
CN966	QGB2027L9-30X	CONNECTOR	B-B (1-30)	
⚠ F801	NMFZ018-1R5X-E	FUSE	1.5A	
K250	NQR0022-005X	FERRITE BEADS		
K251	NQR0022-005X	FERRITE BEADS		
K871	NQR0022-005X	FERRITE BEADS		J,E,EU,EE
PP1	QZW0010-001	STYLE PIN		
PP4	QZW0010-001	STYLE PIN		
PP5	QZW0010-001	STYLE PIN		
PP6	QZW0010-001	STYLE PIN		
PP7	QZW0010-001	STYLE PIN		
TH721	NAD0028-103X	N THERMISTOR	10kΩ	
TU1	QAU0484-001	TUNER		
W1	QAM0556-001	CAR CABLE		
X31	QAX0263-001Z	CRYSTAL	4.332MHz	E,EU,EE
X701	NAX0917-001X	CRYSTAL		
X702	QAX0401-001	CRYSTAL	32.768KHz	

Panel A control board

Block No. [0][2]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC471	CXM3017TQ	IC		
IC501	S-80824CNNB-G-W	IC		
IC502	MN103SB9NEW	IC		
IC581	SG32A90TFIR32P	IC(PROGRAMED)		J
IC581	SG16A90TFIR12A	IC(PROGRAMED)		E,EU,EE,U,UN,UT,A
IC591	RS-771-X	RM.RECEIVER		
IC601	MB87P2040PMT	IC(DIGITAL)		
IC651	TB1323FG	IC		
IC652	MB90099PFV144EX	IC		
IC661	NJM2871BF25-X	IC		
Q401	2SA1530A/QR/-X	TRANSISTOR		
Q402	2SA1530A/QR/-X	TRANSISTOR		
Q404	RT1N141C-X	DIGI TRANSISTOR		
Q407	2SC3928A/QR/-X	TRANSISTOR		
Q408	RT1P141C-X	DIGI TRANSISTOR		
Q451	2SA1530A/QR/-X	TRANSISTOR		
Q452	2SA1530A/QR/-X	TRANSISTOR		
Q453	2SA1530A/QR/-X	TRANSISTOR		
Q501	2SC3928A/QR/-X	TRANSISTOR		
Q651	2SC3928A/QR/-X	TRANSISTOR		
Q652	2SA1530A/QR/-X	TRANSISTOR		
Q653	2SA1774/QR/-X	TRANSISTOR		
Q4731	2SC3928A/QR/-X	TRANSISTOR		
Q6001	2SA1530A/QR/-X	TRANSISTOR		
Q6002	2SC4617/QR/-X	TRANSISTOR		
Q6003	2SA1774/QR/-X	TRANSISTOR		
D401	SML310BA1T/HJ-X	LED		J,U,UN,UT,A
D401	NECBB205/WPQR/X	LED		E,EU,EE
D402	SML310BA1T/HJ-X	LED		J,U,UN,UT,A
D402	NECBB205/WPQR/X	LED		E,EU,EE
D403	SML310BA1T/HJ-X	LED		J,U,UN,UT,A
D403	NECBB205/WPQR/X	LED		E,EU,EE
D404	NECBB205/WPQR/X	LED		
D405	NECBB205/WPQR/X	LED		
D406	SML310BA1T/HJ-X	LED		J,U,UN,UT,A
D406	NECBB205/WPQR/X	LED		E,EU,EE
D407	SML310BA1T/HJ-X	LED		J,U,UN,UT,A
D407	NECBB205/WPQR/X	LED		E,EU,EE
D408	SML310BA1T/HJ-X	LED		J,U,UN,UT,A
D408	NECBB205/WPQR/X	LED		E,EU,EE
D410	SML310BA1T/HJ-X	LED		J,U,UN,UT,A
D410	NECBB205/WPQR/X	LED		E,EU,EE
D411	SML310BA1T/HJ-X	LED		J,U,UN,UT,A
D411	NECBB205/WPQR/X	LED		E,EU,EE
D412	SML310BA1T/HJ-X	LED		J,U,UN,UT,A
D412	NECBB205/WPQR/X	LED		E,EU,EE
D413	NECBB205/WPQR/X	LED		
D414	NECBB205/WPQR/X	LED		
D415	SML310BA1T/HJ-X	LED		J,U,UN,UT,A
D415	NECBB205/WPQR/X	LED		E,EU,EE
D416	LSQ971/KL/-X	LED		
D420	MC2838-X	DIODE		
D502	MC2836-X	DIODE		
D651	UDZW8.2B-X	Z DIODE		
D651 or	MA8082/M/-X	Z DIODE		
D4731	MA8056/M/-X	Z DIODE		
D4731 or	UDZW5.6B-X	Z DIODE		
D4732	MA8091/M/-X	Z DIODE		
D4732 or	UDZW9.1B-X	Z DIODE		
C471	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C472	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C473	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C474	NBE21AM-226X	TA E CAPACITOR	22uF 10V M	
C475	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C476	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C477	NCB20JK-155X	C CAPACITOR	1.5uF 6.3V K	
C478	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C479	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C480	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C481	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C482	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C483	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C484	NCBA1EK-682W	C CAPACITOR	6800pF 25V K	
C485	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C486	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C487	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C488	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C489	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C490	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C491	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C501	NCBA1AK-473W	C CAPACITOR	0.047uF 10V K	
C502	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C503	NCBA1AK-473W	C CAPACITOR	0.047uF 10V K	
C504	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	
C505	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C506	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C507	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C508	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C511	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C512	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C513	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C514	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C516	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C517	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C581	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C582	NCBA1AK-473W	C CAPACITOR	0.047uF 10V K	
C583	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C591	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C601	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C602	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C603	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C604	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C605	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C606	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C607	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C608	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C611	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C612	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C613	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C614	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C615	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C616	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C617	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C618	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C619	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C620	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C621	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C622	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C623	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C624	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C625	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C626	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C627	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C628	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C629	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C630	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C631	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C632	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C633	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C634	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C635	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C636	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C637	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C638	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C639	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C640	NDCA1HJ-101W	C CAPACITOR	100pF 50V J	
C641	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C642	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C643	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C644	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C645	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C646	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C647	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C651	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C652	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C653	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C654	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C655	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C656	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C657	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C658	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C659	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C660	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C661	NCBA1AK-473W	C CAPACITOR	0.047uF 10V K	
C662	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C663	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C664	NCB20JM-475X	C CAPACITOR	4.7uF 6.3V M	
C665	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C666	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C667	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C668	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C669	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C670	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C672	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C673	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C674	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C675	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	
C676	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C677	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C678	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C679	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C680	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C681	NBE21AM-226X	TA E CAPACITOR	22uF 10V M	
C682	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C683	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C684	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C685	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C686	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C687	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C688	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C689	NCB20JM-225X	C CAPACITOR	2.2uF 6.3V M	
C690	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C691	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C692	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C693	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C4705	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C4706	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C4731	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4732	NCBA1HK-102W	C CAPACITOR	1000pF 50V K	
C4733	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C4734	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C4735	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C6001	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C6002	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C6003	NCBA1CK-103W	C CAPACITOR	0.01uF 16V K	
C6004	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C6005	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
C6601	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
C6604	NCBA1AK-104W	C CAPACITOR	0.1uF 10V K	
R401	NRSA6AJ-821W	MG RESISTOR	820Ω 1/16W J	
R404	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J	
R406	NRSA6AJ-821W	MG RESISTOR	820Ω 1/16W J	
R408	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J	
R412	NRSA6AJ-122W	MG RESISTOR	1.2kΩ 1/16W J	
R413	NRSA6AJ-152W	MG RESISTOR	1.5kΩ 1/16W J	
R414	NRSA6AJ-821W	MG RESISTOR	820Ω 1/16W J	
R416	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J	
R418	NRSA6AJ-821W	MG RESISTOR	820Ω 1/16W J	
R420	NRSA6AJ-561W	MG RESISTOR	560Ω 1/16W J	
R422	NRSA6AJ-562W	MG RESISTOR	5.6kΩ 1/16W J	
R423	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R428	NRSA6AJ-562W	MG RESISTOR	5.6kΩ 1/16W J	
R430	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R431	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R432	NRSA6AJ-562W	MG RESISTOR	5.6kΩ 1/16W J	
R434	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R435	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R436	NRSA6AJ-562W	MG RESISTOR	5.6kΩ 1/16W J	
R437	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R438	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	
R439	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R440	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R441	NRSA6AJ-332W	MG RESISTOR	3.3kΩ 1/16W J	
R444	NRSA6AJ-681W	MG RESISTOR	680Ω 1/16W J	
R445	NRSA6AJ-681W	MG RESISTOR	680Ω 1/16W J	
R451	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R452	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R453	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R454	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R455	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R456	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R457	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R458	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R459	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R460	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R461	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R462	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R463	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R464	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R465	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R466	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R467	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R468	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R469	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R471	NRSA6AJ-104W	MG RESISTOR	100kΩ 1/16W J	
R472	NRSA63F-433X	MG RESISTOR	43kΩ 1/16W F	
R473	NRSA63F-433X	MG RESISTOR	43kΩ 1/16W F	
R474	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R475	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R491	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R493	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R495	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R501	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R502	NRSA6AJ-474W	MG RESISTOR	470kΩ 1/16W J	
R504	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R505	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R506	NRSA6AJ-222W	MG RESISTOR	2.2kΩ 1/16W J	
R507	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R508	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R510	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R511	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R512	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R513	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	
R514	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	
R515	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R517	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R518	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R519	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R520	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R521	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R522	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R523	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R524	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R525	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	
R526	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	
R527	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	
R528	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	
R529	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	
R530	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	
R531	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	
R532	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R533	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R534	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R535	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	
R536	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	
R537	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	
R538	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	
R539	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R540	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R541	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	
R542	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R547	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R548	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R549	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R550	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R583	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R592	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R593	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R594	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
R601	NRSA6AJ-121W	MG RESISTOR	120Ω 1/16W J	
R602	NRSA6AJ-121W	MG RESISTOR	120Ω 1/16W J	
R603	NRSA6AJ-121W	MG RESISTOR	120Ω 1/16W J	
R604	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R605	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R606	NRSA6AJ-272W	MG RESISTOR	2.7kΩ 1/16W J	
R607	NRSA6AJ-220W	MG RESISTOR	22Ω 1/16W J	
R608	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R609	NRSA6AJ-331W	MG RESISTOR	330Ω 1/16W J	
R611	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R612	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R616	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R617	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R618	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R619	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R620	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R621	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R622	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R623	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R624	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R627	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R628	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R650	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R651	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R652	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R653	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R654	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
R655	NRSA6AJ-470W	MG RESISTOR	47Ω 1/16W J	
R657	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R658	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R663	NRSA6AJ-821W	MG RESISTOR	820Ω 1/16W J	
R667	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R670	NRSA6AJ-333W	MG RESISTOR	33kΩ 1/16W J	
R671	NRSA6AJ-471W	MG RESISTOR	470Ω 1/16W J	
R672	NRSA6AJ-224W	MG RESISTOR	220kΩ 1/16W J	
R673	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R674	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R675	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R676	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R677	NRSA6AJ-472W	MG RESISTOR	4.7kΩ 1/16W J	
R678	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R679	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R681	NRSA6AJ-331W	MG RESISTOR	330Ω 1/16W J	
R683	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R684	NRSA6AJ-182W	MG RESISTOR	1.8kΩ 1/16W J	
R685	NRSA6AJ-101W	MG RESISTOR	100Ω 1/16W J	
R688	NRSA6AJ-221W	MG RESISTOR	220Ω 1/16W J	
R689	NRSA6AJ-221W	MG RESISTOR	220Ω 1/16W J	
R690	NRSA6AJ-221W	MG RESISTOR	220Ω 1/16W J	
R691	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R692	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R693	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R694	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R695	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R4731	NRSA6AJ-105W	MG RESISTOR	1MΩ 1/16W J	
R4736	NRSA6AJ-681W	MG RESISTOR	680Ω 1/16W J	
R6001	NRSA6AJ-223W	MG RESISTOR	22kΩ 1/16W J	
R6002	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R6003	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6004	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R6005	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R6006	NRSA6AJ-103W	MG RESISTOR	10kΩ 1/16W J	
R6009	NRSA6AJ-473W	MG RESISTOR	47kΩ 1/16W J	
R6500	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6504	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6505	NRSA6AJ-272W	MG RESISTOR	2.7kΩ 1/16W J	
R6506	NRSA6AJ-821W	MG RESISTOR	820Ω 1/16W J	
R6507	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6508	NRSA6AJ-272W	MG RESISTOR	2.7kΩ 1/16W J	
R6509	NRSA6AJ-821W	MG RESISTOR	820Ω 1/16W J	
R6510	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
R6511	NRSA6AJ-272W	MG RESISTOR	2.7kΩ 1/16W J	
R6512	NRSA6AJ-821W	MG RESISTOR	820Ω 1/16W J	
R6601	NRSA6AJ-392W	MG RESISTOR	3.9kΩ 1/16W J	
R6602	NRSA6AJ-392W	MG RESISTOR	3.9kΩ 1/16W J	
R6603	NRSA6AJ-392W	MG RESISTOR	3.9kΩ 1/16W J	
R6604	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6605	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6606	NRSA6AJ-102W	MG RESISTOR	1kΩ 1/16W J	
R6607	NRSA6AJ-0R0W	MG RESISTOR	0Ω 1/16W J	
RA501	NRZ0065-471X	NET RESISTOR	470Ω	
RA502	NRZ0065-471X	NET RESISTOR	470Ω	
RA503	NRZ0065-471X	NET RESISTOR	470Ω	
RA504	NRZ0065-471X	NET RESISTOR	470Ω	
RA505	NRZ0065-471X	NET RESISTOR	470Ω	
RA506	NRZ0065-471X	NET RESISTOR	470Ω	
RA507	NRZ0065-471X	NET RESISTOR	470Ω	
RA508	NRZ0065-471X	NET RESISTOR	470Ω	
RA509	NRZ0065-471X	NET RESISTOR	470Ω	
L471	NQL382M-220X	COIL	22uH M	
L472	NQL382M-220X	COIL	22uH M	
L473	NQL382M-220X	COIL	22uH M	
L474	NQL382M-220X	COIL	22uH M	
L501	NQL382M-100X	COIL	10uH M	
L601	NQR0022-005X	FERRITE BEADS		
L602	NQL382M-100X	COIL	10uH M	
L603	NQL382M-100X	COIL	10uH M	
L651	NQL382M-220X	COIL	22uH M	
L652	NQL382M-220X	COIL	22uH M	
L653	NQL382M-220X	COIL	22uH M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
L654	NQL382M-220X	COIL	22uH M	
L655	NQL382M-220X	COIL	22uH M	
L656	NQL382M-220X	COIL	22uH M	
L657	NQL382M-220X	COIL	22uH M	
L6601	NQL382M-220X	COIL	22uH M	
CN471	QGF0523F3-24W	CONNECTOR	FFC/FPC (1-24)	
CN472	QGF0523F3-06W	CONNECTOR	FFC/FPC (1-6)	
CN504	QGB0525M2-30X	CONNECTOR	B-B (1-30)	
K601	NQR0022-005X	FERRITE BEADS		
K602	NQR0022-005X	FERRITE BEADS		
K603	NQR0022-005X	FERRITE BEADS		
K604	NQR0022-005X	FERRITE BEADS		
K605	NQR0022-005X	FERRITE BEADS		
S451	NSW0124-001X	TACT SW		
S452	NSW0246-001X	TACK SW		
S453	NSW0246-001X	TACK SW		
S454	NSW0246-001X	TACK SW		
S455	NSW0246-001X	TACK SW		
S456	NSW0124-001X	TACT SW		
S457	NSW0246-001X	TACK SW		
S458	NSW0246-001X	TACK SW		
S459	NSW0246-001X	TACK SW		
S460	NSW0246-001X	TACK SW		
S461	NSW0246-001X	TACK SW		
S462	NSW0246-001X	TACK SW		
S463	NSW0246-001X	TACK SW		
S464	NSW0246-001X	TACK SW		
S465	NSW0246-001X	TACK SW		
S501	NSW0246-001X	TACK SW		
X501	NAX0841-001X	C RESONATOR		
X601	NAX0918-001X	C RESONATOR		
X651	NAX0728-001X	CRYSTAL	4.43361875MHz	

Panel B control board

Block No. [0][3]

⚠ Symbol No.	Part No.	Part Name	Description	Local
D5001	UDZW5.6B-X	Z DIODE		
D5001 or	MA8056-X	Z DIODE		
D5002	UDZW5.6B-X	Z DIODE		
D5002 or	MA8056-X	Z DIODE		
D5003	UDZW5.6B-X	Z DIODE		
D5003 or	MA8056-X	Z DIODE		
D5004	UDZW5.6B-X	Z DIODE		
D5004 or	MA8056-X	Z DIODE		
D5005	UDZW5.6B-X	Z DIODE		
D5005 or	MA8056-X	Z DIODE		
D5006	UDZW5.6B-X	Z DIODE		
D5006 or	MA8056-X	Z DIODE		
D5007	UDZW5.6B-X	Z DIODE		
D5007 or	MA8056-X	Z DIODE		
D5008	UDZW20B-X	Z DIODE		
D5008 or	MA8200-X	Z DIODE		
D5009	UDZW5.6B-X	Z DIODE		
D5009 or	MA8056-X	Z DIODE		
D5010	UDZW5.6B-X	Z DIODE		
D5010 or	MA8056-X	Z DIODE		
D5011	UDZW5.6B-X	Z DIODE		
D5011 or	MA8056-X	Z DIODE		
D5013	UDZW5.6B-X	Z DIODE		
D5013 or	MA8056-X	Z DIODE		
D5018	UDZW5.6B-X	Z DIODE		
D5018 or	MA8056-X	Z DIODE		
C5003	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	
CN501	QGZ2204M1-24X	CONNECTOR	(1-24)	
CN502	QGB0525L1-30X	CONNECTOR	B-B (1-30)	

Front end board

Block No. [0][4]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC201	BA5835FM-X	IC		
IC251	BD6671FM-X	IC		
IC301	MN2DS0009AA	IC		
IC302	BA00HC5WF-X	IC		
IC398	SG32A90TFIR35H	IC(PROGRAMED)		
IC399	K4S281632I-UC75	IC (DIGITAL)		
IC399 or	EDS1216AGTA-75	IC(DIGITAL)		
IC401	AK4385ET-X	IC		
IC411	NJM4580V-X	IC		
IC481	BR24L16F-W-X	IC(DIGITAL)		
Q101	2SB1424/R/-W	TRANSISTOR		
Q102	2SC4617/R/-X	TRANSISTOR		
Q103	2SB1424/R/-W	TRANSISTOR		
Q104	2SC4617/R/-X	TRANSISTOR		
Q105	2SC4617/R/-X	TRANSISTOR		
Q106	2SK3019-X	MOS FET		
Q107	2SK3019-X	MOS FET		
Q231	RT1N141U-X	TRANSISTOR		
Q301	RT1N441U-X	TRANSISTOR		
Q302	RT1N441U-X	TRANSISTOR		
C1	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C3	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C5	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C7	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C8	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C9	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C11	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C12	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C13	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C14	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C15	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C16	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C17	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C18	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C102	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C104	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C105	NBE41AM-476X	TA E CAPACITOR	47uF 10V M	
C106	NBE41AM-476X	TA E CAPACITOR	47uF 10V M	
C108	NBE41AM-476X	TA E CAPACITOR	47uF 10V M	
C111	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C112	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C201	NEAF1CM-107X	E CAPACITOR	100uF 16V M	
C202	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C203	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C204	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C205	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C206	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C211	NEAF1CM-107X	E CAPACITOR	100uF 16V M	
C212	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C213	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C221	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C222	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C251	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C252	NEAF1CM-107X	E CAPACITOR	100uF 16V M	
C253	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C254	NBE21AM-106X	TA E CAPACITOR	10uF 10V M	
C255	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C256	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C257	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C258	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C259	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C264	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C265	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C266	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C267	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C268	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C301	NEAF0JM-227X	E CAPACITOR	220uF 6.3V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C302	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	
C305	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C308	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C309	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C310	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C311	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C312	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C313	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C315	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C316	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C317	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C318	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C319	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C320	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C321	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C322	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C323	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C324	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C325	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C326	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C330	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C331	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C332	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C333	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C335	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C336	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C337	NCB31HK-183X	C CAPACITOR	0.018uF 50V K	
C338	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C339	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C340	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C341	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C347	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C348	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C349	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C350	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C358	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	
C359	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	
C364	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	
C365	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C366	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C369	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	
C371	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C380	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C381	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C382	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C383	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C391	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C392	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C393	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C394	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C396	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C397	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C401	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C402	NBE41AM-476X	TA E CAPACITOR	47uF 10V M	
C403	NCB31HK-331X	C CAPACITOR	330pF 50V K	
C404	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C411	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C412	NBE41CM-336X	TA E CAPACITOR	33uF 16V M	
C421	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C422	NBE41AM-476X	TA E CAPACITOR	47uF 10V M	
C431	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C432	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C433	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C451	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C452	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C453	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C454	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C481	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C491	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C521	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C522	NBE41AM-476X	TA E CAPACITOR	47uF 10V M	
C531	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C532	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
C533	NCS31HJ-471X	C CAPACITOR	470pF 50V J	
R101	NRSA63J-910X	MG RESISTOR	91Ω 1/16W J	
R102	NRSA63J-910X	MG RESISTOR	91Ω 1/16W J	
R103	NRSA63D-432X	MG RESISTOR	4.3kΩ 1/16W D	
R104	NRSA63D-242X	MG RESISTOR	2.4kΩ 1/16W D	
R105	NRS125J-120X	MG RESISTOR	12Ω 1/2W J	
R106	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R107	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R108	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R109	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R110	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R111	NRSA63D-432X	MG RESISTOR	4.3kΩ 1/16W D	
R112	NRSA63D-242X	MG RESISTOR	2.4kΩ 1/16W D	
R113	NRS125J-120X	MG RESISTOR	12Ω 1/2W J	
R114	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R115	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R116	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R117	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R118	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R119	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R120	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R122	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R123	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R125	NRS125J-1R0X	MG RESISTOR	1Ω 1/2W J	
R126	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R127	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R128	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R129	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R201	NRS125J-1R0X	MG RESISTOR	1Ω 1/2W J	
R202	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R203	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R204	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R205	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R206	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R207	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R208	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R209	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R211	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R219	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R220	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R221	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R222	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R223	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R224	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R231	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R232	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R233	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R234	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J	
R235	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R251	NRS125J-R47X	MG RESISTOR	0.47Ω 1/2W J	
R252	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R253	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R254	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R255	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R256	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R257	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R258	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R259	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R260	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R300	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R301	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R303	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	
R304	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R306	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R307	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R308	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R309	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R310	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R312	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R313	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R314	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R315	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R316	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R317	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R318	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	
R319	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R320	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R323	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R325	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	
R332	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R333	NRSA63D-162X	MG RESISTOR	1.6kΩ 1/16W D	
R334	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	

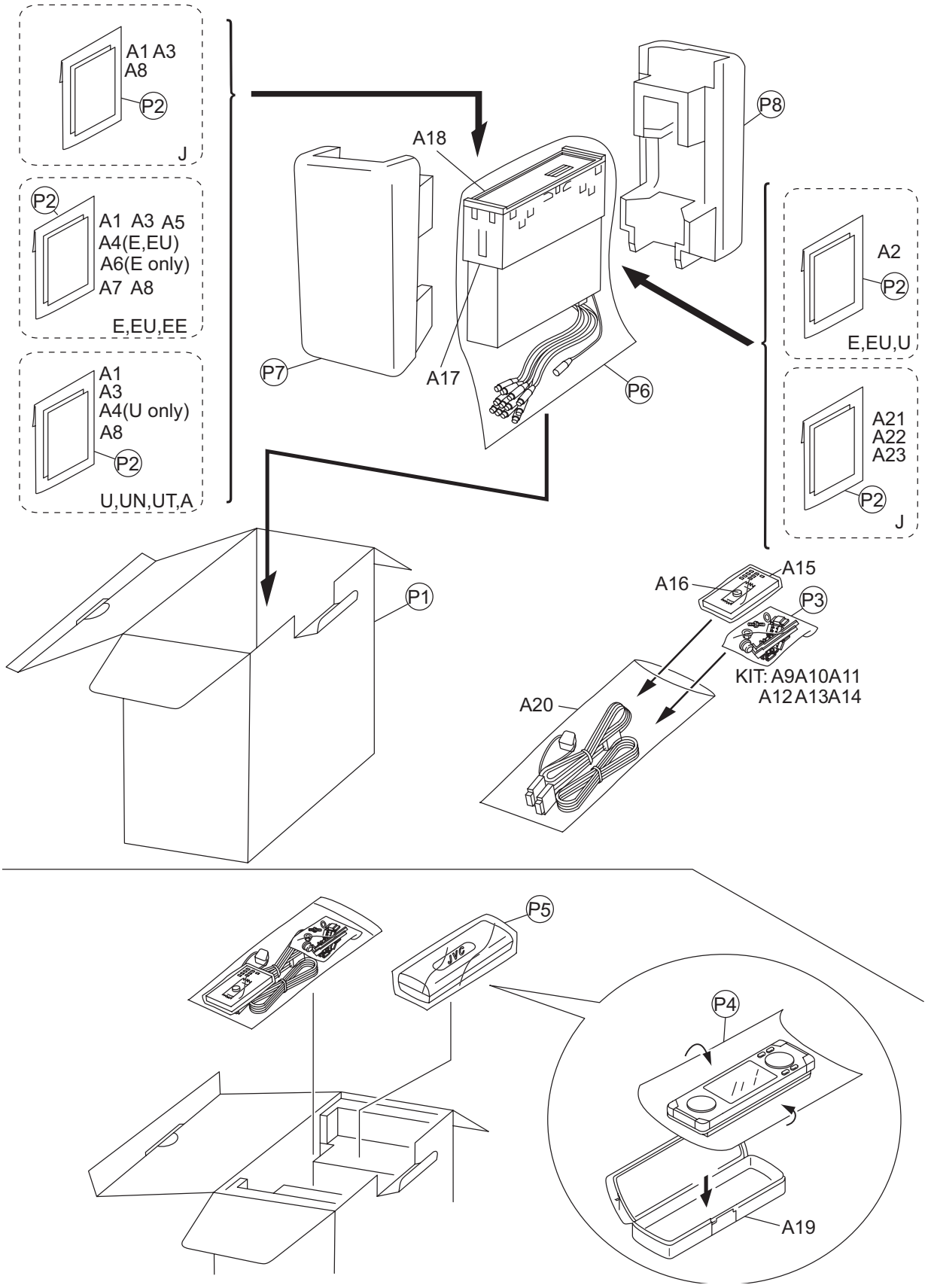
⚠ Symbol No.	Part No.	Part Name	Description	Local
R335	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R336	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R337	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R338	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R339	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R340	NRSA63D-303X	MG RESISTOR	30kΩ 1/16W D	
R345	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R346	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R347	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R348	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R349	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R351	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R352	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R353	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R354	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R357	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R358	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R361	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R362	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R363	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R364	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R365	NRSA63D-911X	MG RESISTOR	910Ω 1/16W D	
R366	NRSA63D-202X	MG RESISTOR	2kΩ 1/16W D	
R370	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R371	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R372	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R373	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R374	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R380	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R384	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R385	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R386	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R390	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R396	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R399	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R401	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R402	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
R403	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R404	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R411	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R421	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R422	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R431	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R432	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R433	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R434	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	
R435	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R436	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	
R437	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R438	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R441	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R442	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R481	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R491	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D	
R492	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R521	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R522	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R531	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R532	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R533	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R534	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	
R535	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R536	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	
R537	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R538	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R621	NQL093K-1R8X	COIL	1.8uH K	
L303	NQL044K-100X	COIL	0.26Ω 10uH K	
L305	NQL093K-1R8X	COIL	1.8uH K	
L306	NQL093K-1R8X	COIL	1.8uH K	
L307	NQL093K-1R8X	COIL	1.8uH K	
L451	NQL044K-100X	COIL	0.26Ω 10uH K	
CN101	QGF0501F8-30X	CONNECTOR	FFC/FPC (1-30)	
CN201	QGF1038F2-11X	CONNECTOR	FFC/FPC (1-11)	
CN202	QGF0523F2-05W	CONNECTOR	FFC/FPC (1-5)	
CN402	QGF0522F3-06W	CONNECTOR	FFC/FPC (1-6)	
CN403	QGF0534F3-45X	CONNECTOR	FFC/FPC (1-45)	

⚠ Symbol No.	Part No.	Part Name	Description	Local
K101	NQR0007-002X	FERRITE BEADS		
K102	NQR0007-002X	FERRITE BEADS		
K301	NQR0502-001X	FERRITE BEADS		
K311	NQR0129-002X	FERRITE BEADS		
K399	NQR0502-001X	FERRITE BEADS		
K401	NQR0022-005X	FERRITE BEADS		
K402	NQR0022-005X	FERRITE BEADS		
K404	NQR0022-005X	FERRITE BEADS		
K405	NQR0022-005X	FERRITE BEADS		
K406	NQR0022-005X	FERRITE BEADS		
K407	NQR0022-005X	FERRITE BEADS		
K425	NQL093K-1R8X	COIL	1.8uH K	
K435	NQR0022-005X	FERRITE BEADS		
K441	NQR0022-005X	FERRITE BEADS		
K442	NQR0022-005X	FERRITE BEADS		
K443	NQR0022-005X	FERRITE BEADS		
K444	NQR0022-005X	FERRITE BEADS		
K445	NQR0022-005X	FERRITE BEADS		
K451	NQR0022-005X	FERRITE BEADS		
K452	NQR0022-005X	FERRITE BEADS		
K601	NQR0022-005X	FERRITE BEADS		
SW4	NSW0184-001X	DETECT SW		
SW5	NSW0183-001X	DETECT SW		
TH491	NAD0025-103X	N THERMISTOR	10kΩ	
X351	NAX0741-001X	CRYSTAL	27.000MHz	

Packing materials and accessories parts list

Block No. M 3 M M

No additional / supplemental order of WARRANTY CARDs are available.



Packing and Accessories

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

⚠	Symbol No.	Part No.	Part Name	Description	Local
	A 1	LVT1655-001A	INST BOOK	ENG SPA FRE	J
	A 1	LVT1656-001A	INST BOOK	ENG GER FRE DUT	E
	A 1	LVT1656-003A	INST BOOK	ENG FRE SPA	EU
	A 1	LVT1656-005A	INST BOOK	ENG RUS UKR	EE
	A 1	LVT1657-002A	INST BOOK	ENG CHI(TAIWAN) THA	U
	A 1	LVT1657-004A	INST BOOK	ENG INA	UN
	A 1	LVT1657-005A	INST BOOK	ENG CHI(TAIWAN)	UT
	A 1	LVT1657-001A	INST BOOK	ENG	A
	A 2	LVT1656-002A	INST BOOK	SPA ITA SWE POR	E
	A 2	LVT1656-004A	INST BOOK	TUR PER	EU
	A 2	LVT1657-003A	INST BOOK	ARA KOR PER	U
	A 3	LVT1655-002A	INSTALL MANUAL	ENG SPA FRE	J
	A 3	LVT1656-006A	INSTALL MANUAL	ENG GER FRE DUT	E
	A 3	LVT1656-008A	INSTALL MANUAL	ENG FRE SPA	EU
	A 3	LVT1656-010A	INSTALL MANUAL	ENG RUS UKR	EE
	A 3	LVT1657-007A	INSTALL MANUAL	ENG CHI(TAIWAN)	U,UT
	A 3	LVT1657-009A	INSTALL MANUAL	ENG INA	UN
	A 3	LVT1657-006A	INSTALL MANUAL	ENG	A
	A 4	LVT1656-007A	INSTALL MANUAL	SPA ITA POR	E
	A 4	LVT1656-009A	INSTALL MANUAL	TUR PER	EU
	A 4	LVT1657-008A	INSTALL MANUAL	ARA KOR PER	U
	A 5	----------	WARRANTY CARD	BT-54031-1	E,EU,EE
	A 6	VND3050-002	IDENTITY CARD		E
	A 7	VND3046-001	SERIAL TICKET		E,EU,EE
	A 8	LVT1672-001A	INST SHEET		
	A 9	VKZ4027-202	PLUG NUT		
	A10	VKH4871-003	MOUNT BOLT		
	A11	VKZ4328-003	LOCK NUT		
	A12	QYWWS53A008ZA	WASHER	0mm/5.3mm x	
	A13	GE40130-002A	HOOK	(x2)	
	A14	LV41478-001A	CORD CONNECTER	(x2)	
	A15	RM-RK241	REMOCON		
	A16	----------	BATTERY	3V	
	A17	GE20137-003A	MOUNTING SLEEVE		
	A18	LV22436-001A	TRIM		
	A19	GE32788-002A	HARD CASE ASSY		
⚠	A20	QAM0971-001	CAR CABLE		J,U,UN,UT,A
⚠	A20	QAM0970-001	CAR CABLE		E,EU,EE
	A21	BT-51041-1	REGIS. CARD	BT-51041-1	J
	A22	----------	WARRANTY CARD	BT-51018-5	J
	A23	----------	WARRANTY CARD	BT-52006-2	J
	KIT	SRW-AVX11J	SCREW PARTS KIT	A9 A10 A11 A12 A13 A14	
	P 1	LV37235-001A	CARTON		J
	P 1	LV37236-002A	CARTON		E,EU
	P 1	LV37237-003A	CARTON		EE
	P 1	LV37238-002A	CARTON		U,UN,UT,A
	P 2	FSPG4002-001	POLY BAG	(x2)	J,U
	P 2	QPA01803205P	POLY BAG	18cm x 32cm(x2)	E,EU
	P 2	FSPG4002-001	POLY BAG		EE,UN,UT,A
	P 3	QPA00801205	POLY BAG	8cm x 12cm	
	P 4	FSYH4036-068	SHEET		
	P 5	QPA01003003	POLY BAG	10cm x 30cm	
	P 6	QPC03004315P	POLY BAG	30cm x 43cm	
	P 7	LV11330-001A	CUSHION (L)		
	P 8	LV11331-001A	CUSHION (R)		