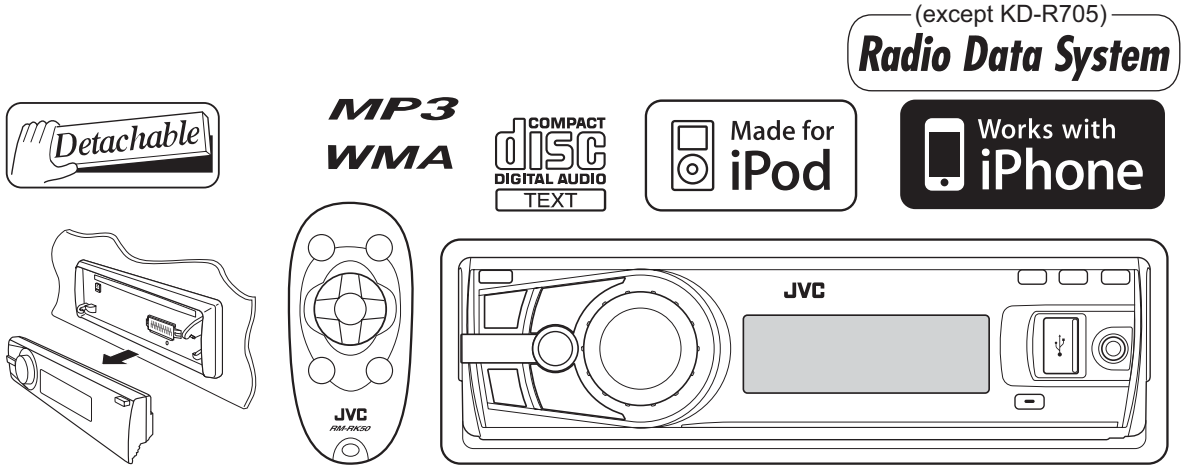
JVC

SERVICE MANUAL

CD RECEIVER

KD-R701E, KD-R701EX, KD-R701EY, KD-R701EU, KD-R705U, KD-R705UN, KD-R705UT, KD-R705UH, KD-R707EE



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.MA445<Rev.001>
2009/3

SPECIFICATION

KD-R701

AUDIO AMPLIFIER SECTION		
Maximum Power Output	Front/Rear	50 W per channel
Continuous Power Output (RMS)	Front/Rear	19 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)
Tone Control Range	Bass	±12 dB (60 Hz, 80 Hz, 100 Hz, 200 Hz) Q1.0, Q1.25, Q1.5, Q2.0
	Middle	±12 dB (0.5 kHz, 1.0 kHz, 1.5 kHz, 2.5 kHz) Q0.75, Q1.0, Q1.25
	Treble	±12 dB (10.0 kHz, 12.5 kHz, 15.0 kHz, 17.5 kHz) Q = Fixed
Frequency Response		40 Hz to 20 000 Hz
Signal-to-Noise Ratio		70 dB
Line-Out Level/Impedance		2.5 V/20 kΩ load (full scale)
Subwoofer-Out Level/Impedance		2.5 V/20 kΩ load (full scale)
Output Impedance		1 kΩ
Other Terminal		USB input jack, AUX (auxiliary) input jack, CD changer jack, Steering wheel remote input
TUNER SECTION		
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	9.3 dBf (0.8 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	40 dB
MW Tuner	Sensitivity	20 μV
	Selectivity	40 dB
LW Tuner	Sensitivity	50 μV
CD PLAYER SECTION		
Type		Compact disc player
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Number of Channels		2 channels (stereo)
Frequency Response		5 Hz to 20 000 Hz
Dynamic Range		96 dB
Signal-to-Noise Ratio		98 dB
Wow and Flutter		Less than measurable limit
MP3 Decoding Format: (MPEG1/2 Audio Layer 3)		Max. Bit Rate: 320 kbps
WMA (Windows Media® Audio) Decoding Format		Max. Bit Rate: 320 kbps
USB SECTION		
USB Standard		USB 1.1, USB 2.0
Data Transfer Rate (Full Speed)		Max. 12 Mbps
Compatible Device		Mass storage class
Compatible File System		FAT 32/16/12
Playable Audio Format		MP3/WMA
Max. Current		DC 5 V 500 mA
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): (approx.)	Installation Size	182 mm × 52 mm × 160 mm
	Panel Size	188 mm × 58 mm × 12 mm
Mass		1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.

KD-R705

AUDIO AMPLIFIER SECTION		
Maximum Power Output	Front/Rear	50 W per channel
Continuous Power Output (RMS)	Front/Rear	19 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)
Tone Control Range	Bass	±12 dB (60 Hz, 80 Hz, 100 Hz, 200 Hz) Q1.0, Q1.25, Q1.5, Q2.0
	Middle	±12 dB (0.5 kHz, 1.0 kHz, 1.5 kHz, 2.5 kHz) Q0.75, Q1.0, Q1.25
	Treble	±12 dB (10.0 kHz, 12.5 kHz, 15.0 kHz, 17.5 kHz) Q = Fixed
Frequency Response		40 Hz to 20 000 Hz
Signal-to-Noise Ratio		70 dB
Line-Out Level/Impedance		2.5 V/20 kΩ load (full scale)
Subwoofer-Out Level/Impedance		2.5 V/20 kΩ load (full scale)
Output Impedance		1 kΩ
Other Terminal		USB input jack, AUX (auxiliary) input jack, CD changer jack
TUNER SECTION		
Frequency Range	FM	87.5 MHz to 108.0 MHz
	AM	531 kHz to 1 602 kHz
FM Tuner	Usable Sensitivity	9.3 dBf (0.8 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	40 dB
AM Tuner	Sensitivity	20 μV
	Selectivity	40 dB
CD PLAYER SECTION		
Type		Compact disc player
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Number of Channels		2 channels (stereo)
Frequency Response		5 Hz to 20 000 Hz
Dynamic Range		96 dB
Signal-to-Noise Ratio		98 dB
Wow and Flutter		Less than measurable limit
MP3 Decoding Format: (MPEG1/2 Audio Layer 3)		Max. Bit Rate: 320 kbps
WMA (Windows Media® Audio) Decoding Format		Max. Bit Rate: 320 kbps
USB SECTION		
USB Standard		USB 1.1, USB 2.0
Data Transfer Rate (Full Speed)		Max. 12 Mbps
Compatible Device		Mass storage class
Compatible File System		FAT 32/16/12
Playable Audio Format		MP3/WMA

Max. Current		DC 5 V 500 mA
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): (approx.)	Installation Size	182 mm × 52 mm × 160 mm
	Panel Size	188 mm × 58 mm × 6 mm
Mass		1.3 kg (excluding accessories)

Design and specifications are subject to change without notice.

KD-R707

AUDIO AMPLIFIER SECTION		
Maximum Power Output	Front/Rear	50 W per channel
Continuous Power Output (RMS)	Front/Rear	19 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)
Tone Control Range	Bass	±12 dB (60 Hz, 80 Hz, 100 Hz, 200 Hz) Q1.0, Q1.25, Q1.5, Q2.0
	Middle	±12 dB (0.5 kHz, 1.0 kHz, 1.5 kHz, 2.5 kHz) Q0.75, Q1.0, Q1.25
	Treble	±12 dB (10.0 kHz, 12.5 kHz, 15.0 kHz, 17.5 kHz) Q = Fixed
Frequency Response		40 Hz to 20 000 Hz
Signal-to-Noise Ratio		70 dB
Line-Out Level/Impedance		2.5 V/20 kΩ load (full scale)
Subwoofer-Out Level/Impedance		2.5 V/20 kΩ load (full scale)
Output Impedance		1 kΩ
Other Terminal		USB input jack, AUX (auxiliary) input jack
TUNER SECTION		
Frequency Range	FM	87.5 MHz to 108.0 MHz
	FM-LO	65.00 MHz to 74.00 MHZ
	AM	MW: 522 kHz to 1 620 kHz
		LW: 144 kHz to 279 kHz
	Usable Sensitivity	9.3 dBf (0.8 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	40 dB
MW Tuner	Sensitivity	20 μV
	Selectivity	40 dB
LW Tuner	Sensitivity	50 μV
CD PLAYER SECTION		
Type		Compact disc player
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Number of Channels		2 channels (stereo)
Frequency Response		5 Hz to 20 000 Hz
Dynamic Range		96 dB
Signal-to-Noise Ratio		98 dB
Wow and Flutter		Less than measurable limit
MP3 Decoding Format: (MPEG1/2 Audio Layer 3)		Max. Bit Rate: 320 kbps

WMA (Windows Media® Audio) Decoding Format		Max. Bit Rate: 320 kbps
USB SECTION		
USB Standard		USB 1.1, USB 2.0
Data Transfer Rate (Full Speed)		Max. 12 Mbps
Compatible Device		Mass storage class
Compatible File System		FAT 32/16/12
Playable Audio Format		MP3/WMA
Max. Current		DC 5 V 500 mA
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): (approx.)	Installation Size	182 mm × 52 mm × 160 mm
	Panel Size	188 mm × 58 mm × 12 mm
Mass		1.3 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

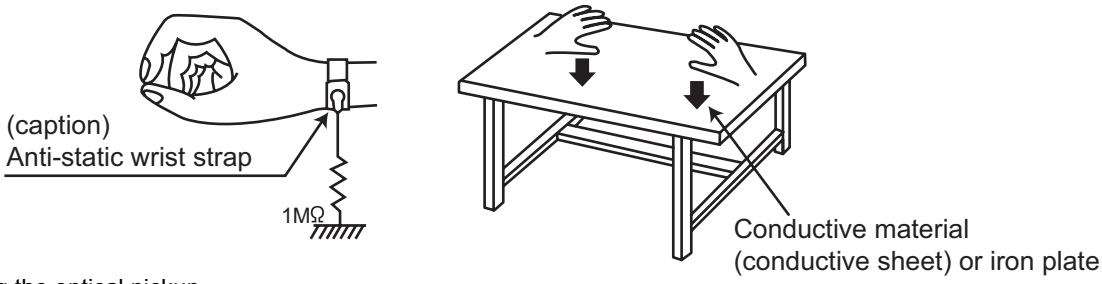
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

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.

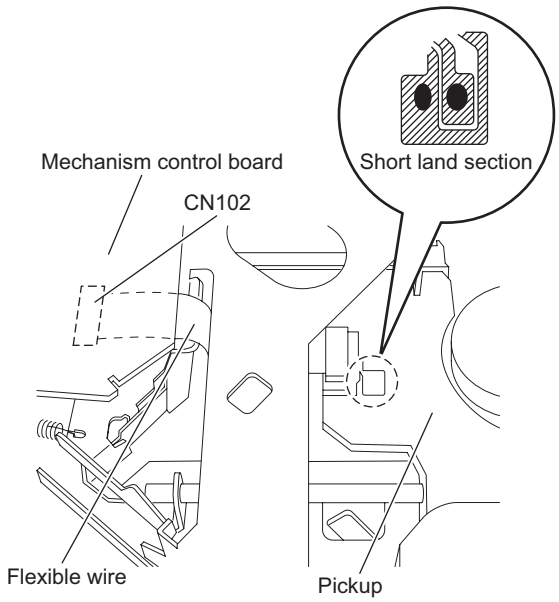
1.3 Handling the traverse unit (optical pickup)

(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 (Used figure are KD-R701)

3.1.1 Removing the Bottom chassis (See Fig.1)

(1) Remove the two screws **A** and one screw **B** attaching the Heat sink.
(2) Remove the one screw **C** attaching the RCA jack.
(3) Remove the one screw **D** attaching the Bottom chassis.
(4) Slide to backward and then remove the Bottom chassis.

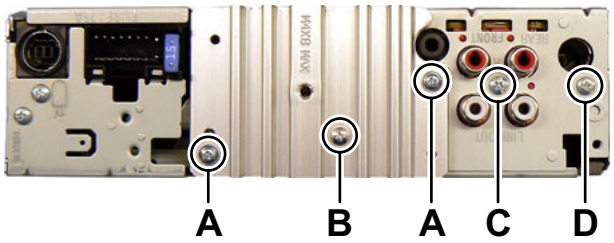


Fig.1

3.1.2 Removing the Front chassis (See Fig.2)

(1) Remove the two screws **E** attaching the both side of the Front chassis.
(2) Disengage four hooksaengaged both side of the Front chassis.

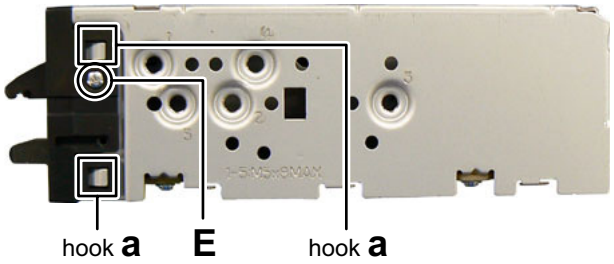


Fig.2

3.1.3 Removing the Main board (See Fig.3 to 5)

(1) Remove the two screws **F** and one screw **G** attaching the Side panel. (See Fig.3)

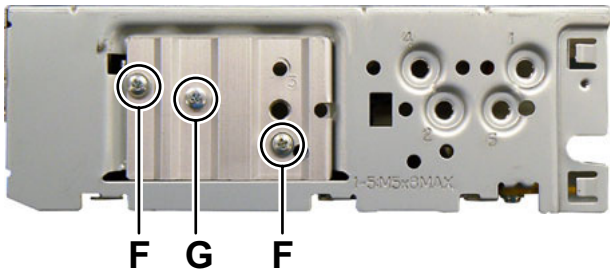


Fig.3

(2) Remove the one screw **H** attaching the CD-CH jack. (See Fig.4)

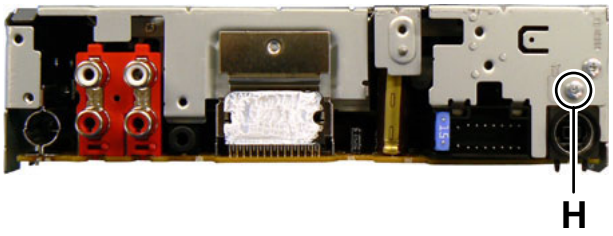


Fig.4

(3) Remove the three screws **J** attaching the Main board. (See Fig.5)
(4) Disconnect the board to board connector CN501 connected to CD mechanism. (See Fig.5)

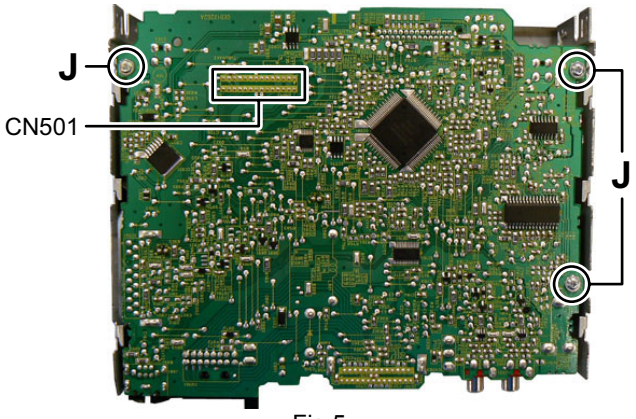


Fig.5

3.1.4 Removing the CD mechanism (See Fig.6)

(1) Remove the three screws **K** attaching the CD mechanism.

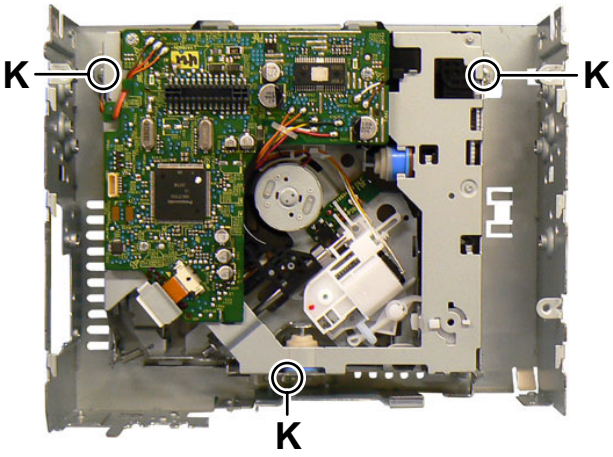


Fig.6

3.1.5 Removing the Function board (See Fig.7, 8)

(1) Remove the three screws **L** attaching the connector bracket. (See Fig.7)

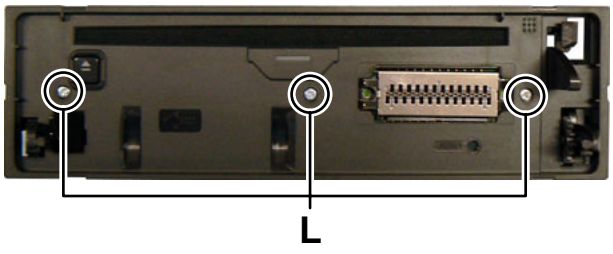


Fig.7

(2) Disengage one hook **b** engaged connector bracket and slide to right ward and the take out the connector bracket. (See Fig.8)

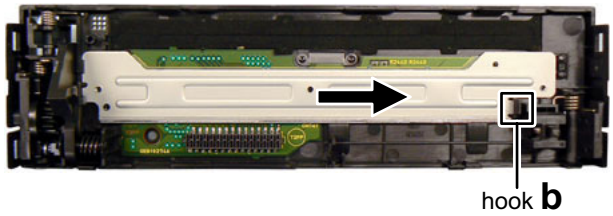


Fig.8

3.1.6 Removing the Switch board (See Fig.9)

(1) Remove the volume knob.
(2) Remove the four screws **M** attaching the Rear cover.
(3) Disengage ten hooks **c** engaged Rear cover.

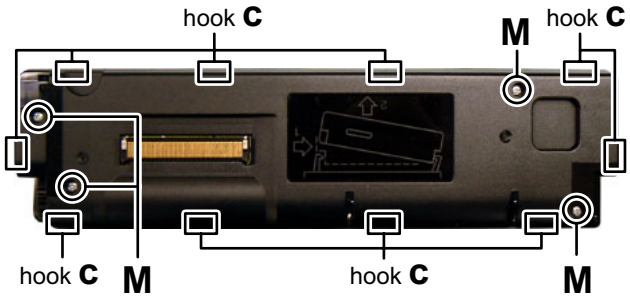


Fig.9

3.2 CD MECHANISM assembly section

- Remove the CD MECHANISM assembly from the main body.

3.2.1 Removing the MECHANISM CONTROL BOARD assembly (See Fig.1 and 2)

(1) From the bottom side of CD MECHANISM assembly, remove the solders from the soldered sections (**a**, **b** and **c**) on the MECHANISM CONTROL BOARD assembly. (See Fig.1.)

(2) Remove the three screws **A** attaching the MECHANISM CONTROL BOARD assembly. (See Fig.1.)

(3) Solder the short land sections on the pickup. (See Fig.2.)

Caution:

- Solder the short land sections on the pickup before disconnecting the flexible wire from the connector CN102 on the MECHANISM CONTROL BOARD assembly.
  If the card wire is disconnected without attaching solder, the pickup may be destroyed by static electricity. (See Fig.2.)
- When attaching the MECHANISM CONTROL BOARD assembly, remove the solders from the short land sections after connecting the flexible wire to the connector CN102 on the MECHANISM CONTROL BOARD assembly.

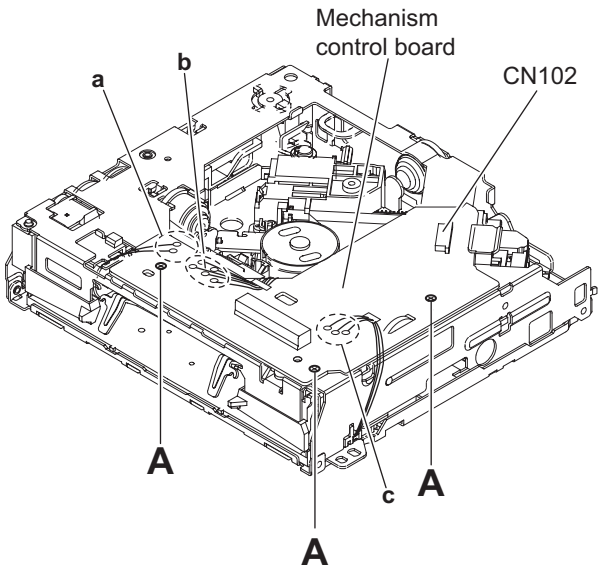


Fig.1

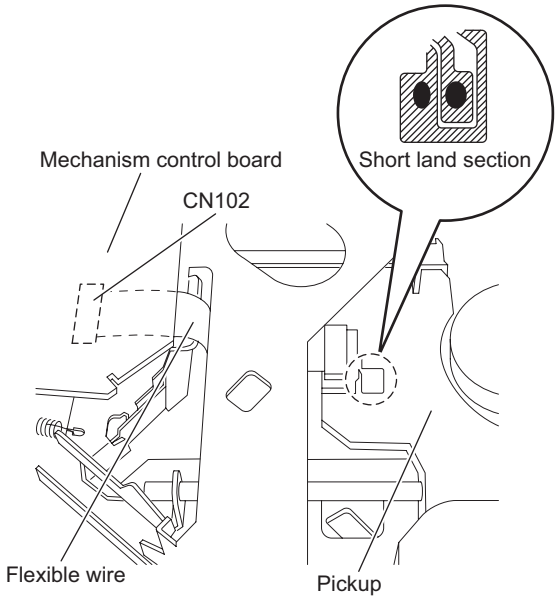


Fig.2

3.2.2 Removing the top cover (See Fig.3 to 5)

- Remove the MECHANISM CONTROL BOARD assembly.
  (1) From the front side of the CD MECHANISM assembly, change the hook position of the two roller springs. (See Fig.3.)
  (2) From the side of the CD MECHANISM assembly, remove the six screws **B** attaching the top cover. (See Fig.3 and 4.)
  (3) Take out the top cover in an upward direction. (See Fig.5.)

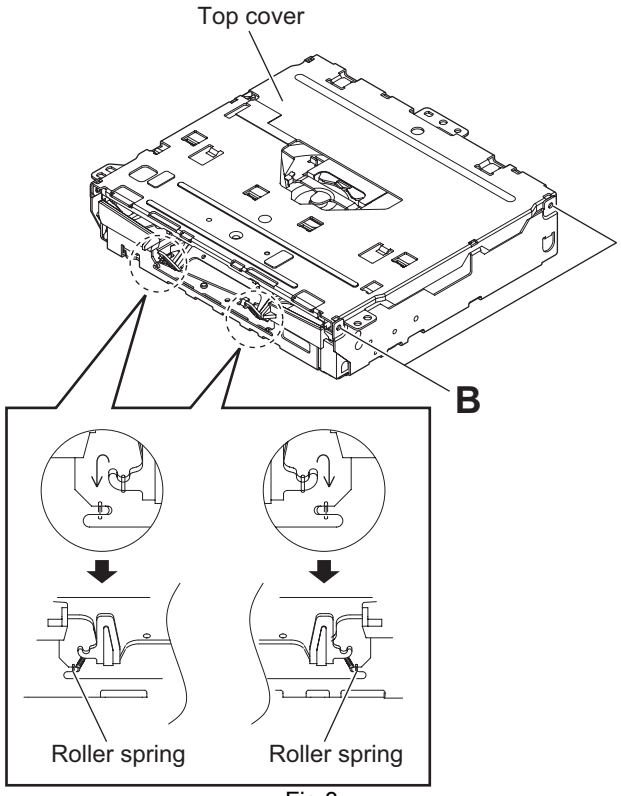


Fig.3

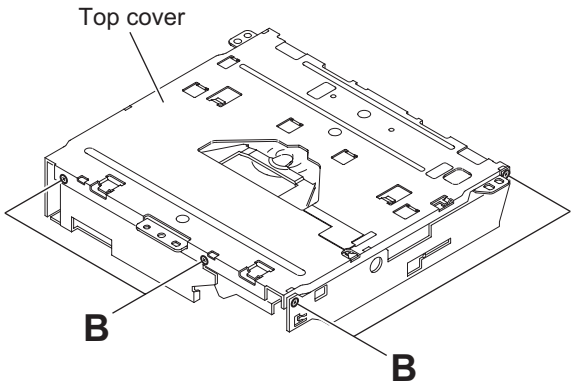


Fig.4

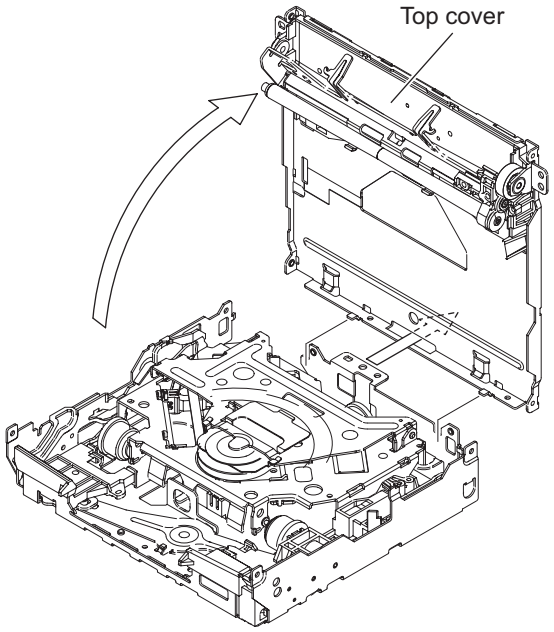


Fig.5

3.2.3 Removing the roller (See Fig.6)

- Remove the MECHANISM CONTROL BOARD assembly and top cover.
  (1) From the bottom side of the top cover, remove the screw **C** attaching the gear holder.
  (2) Remove the R.holder assembly from disc plate, and then take out the roller from R.holder assembly in the direction of the arrow.

  Reference:
  When attaching the R.ACT gear (2) and R.ACT gear (3), apply grease to the section **d** of R.holder assembly.

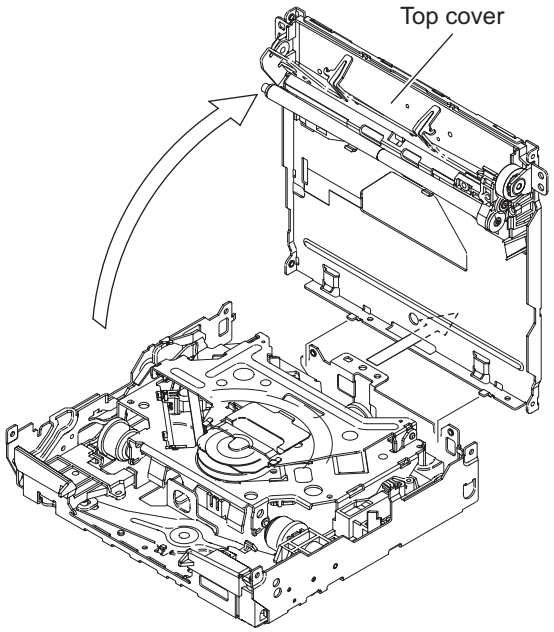


Fig.6

3.2.4 Removing the PHOTO BOARD assembly (See Fig.7 and 8)

- Remove the MECHANISM CONTROL BOARD assembly and top cover.

(1) From the bottom side of the top cover, release the projection **e** from the notch of the disc plate. (See Fig.7.)
(2) Take out the disc plate in the direction of the arrow. (See Fig.7.)
(3) From the reverse side of the disc plate, remove the screw **D** attaching the PHOTO BOARD assembly. (See Fig.8.)

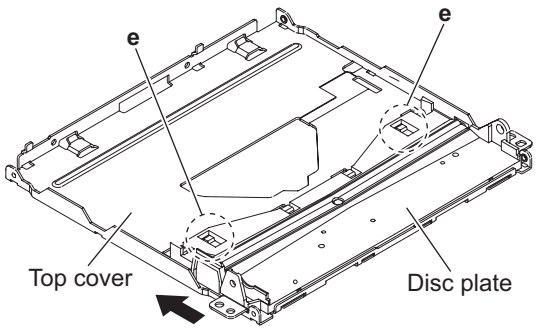


Fig.7

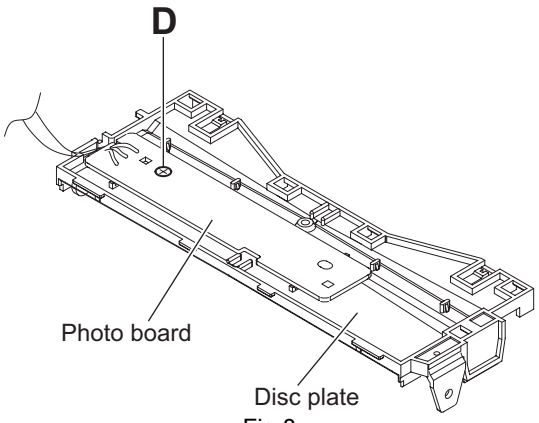


Fig.8

3.2.5 Removing the mechanism section (See Fig.9 and 10)

• Remove the MECHANISM CONTROL BOARD assembly and top cover.

(1) From the top side of the CD MECHANISM assembly, remove the two screws **E** attaching the loading motor assembly. (See Fig.9.)
(2) Remove the two roller springs on the top side of the mecha frame. (See Fig.9.)
(3) Remove the four SUS springs on the top side of the mecha frame. (See Fig.9.)
(4) Remove the link spring on the top side of the mecha frame. (See Fig.10.)
(5) Release section **f** of the three dampers from the mecha frame. (See Fig.10.)

Reference:

When attaching the roller spring and SUS spring, keep direction before remove.

(6) Move the slide cam (R) assembly in the direction of the arrow, and then take out the mechanism section in an upward direction. (See Fig.10.)

Reference:

When attaching the mechanism section, apply grease to the section **g**. (See Fig.10.)

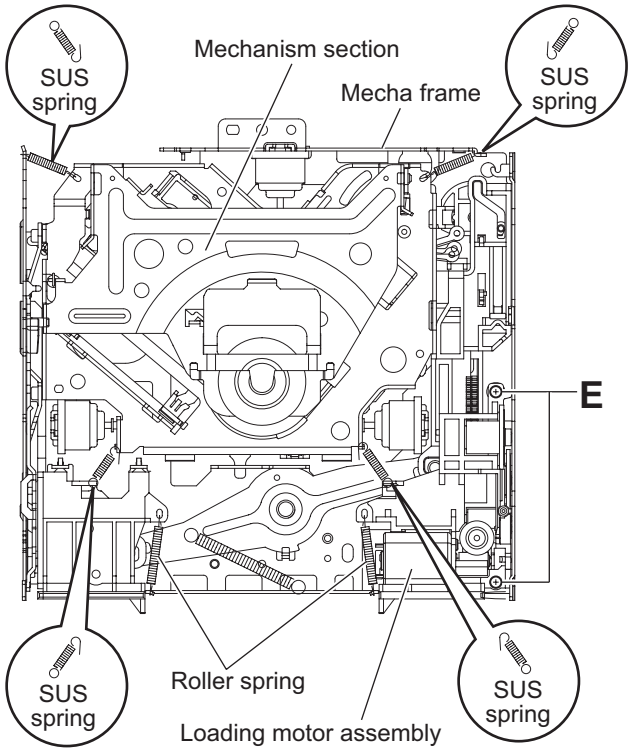


Fig.9

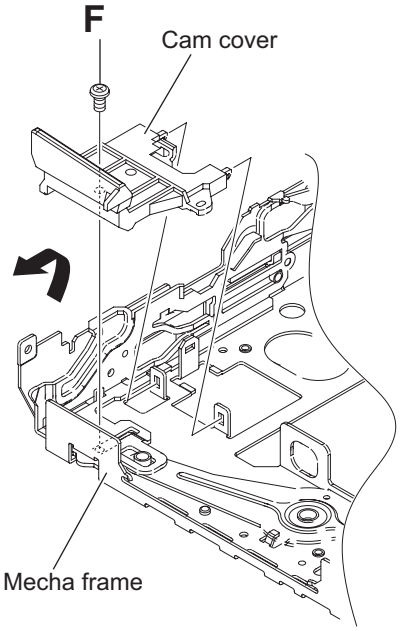


Fig.10

3.2.6 Removing the slide cam (L) (See Fig.11 to 13)

- Remove the MECHANISM CONTROL BOARD assembly, top cover and mechanism section.
  (1) From the top side of the mecha frame, remove the screw **F** attaching the cam cover. (See Fig.11.)
  (2) Take out the cam cover from mecha frame in an upward direction. (See Fig.11.)
  (3) Take out the slide cam (L) in the direction of the arrow. (See Fig.12.)

  Reference:

  When attaching the slide cam (L), apply grease to the section **h**. (See Fig.13.)

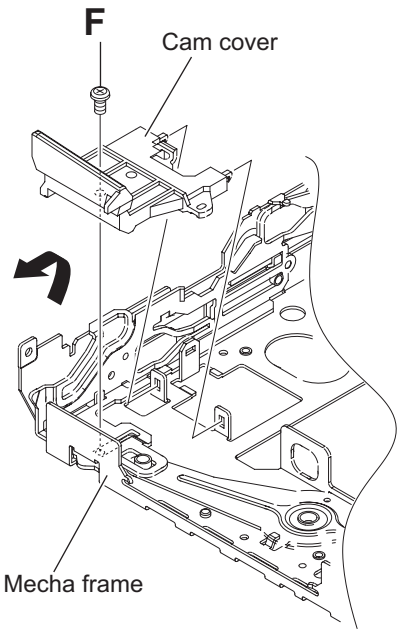


Fig.11

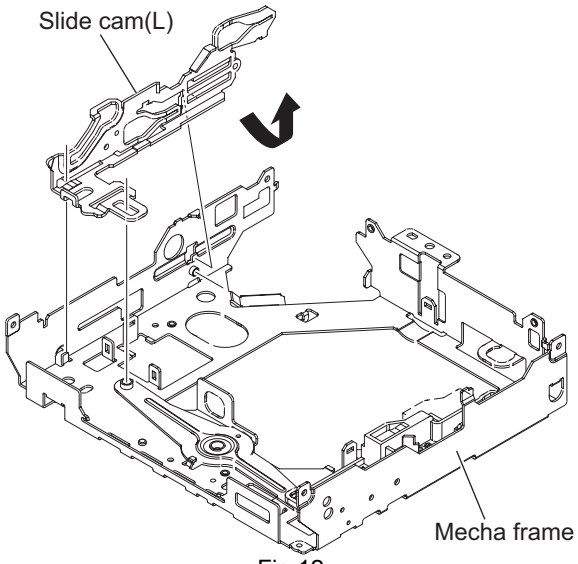


Fig.12

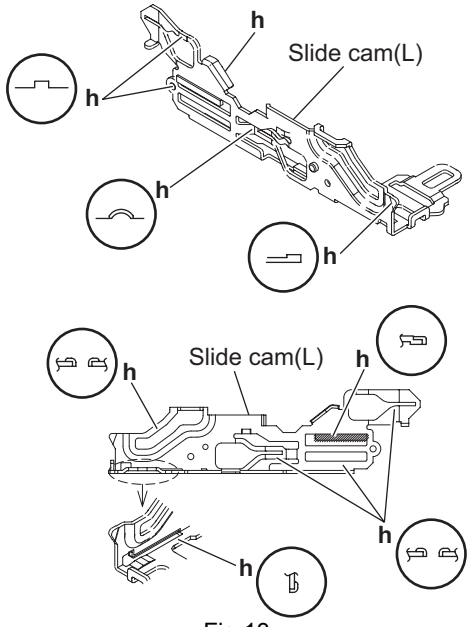


Fig.13

3.2.7 Removing the F.lock lever and slide cam (R) (See Fig.14 and 15)

- Remove the MECHANISM CONTROL BOARD assembly, top cover and mechanism section.
  (1) From the top side of the mecha frame, take out the slide cam (R) assembly in an upward direction. (See Fig.14.)
  (2) Rotate the F.lock lever in the direction of the arrow 1, and then take out the direction of the arrow 2. (See Fig.14.)

Reference:

When attaching the slide cam (R) assembly, the f.lock lever and the link arm apply grease to the section **h**. (See Fig.14 and 15.)

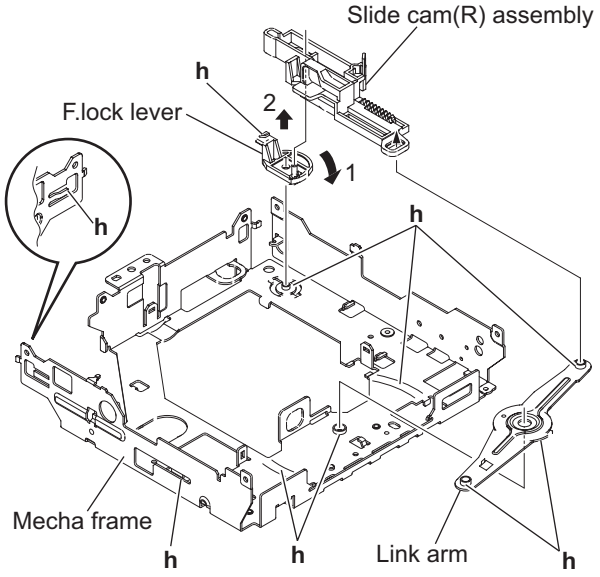


Fig.14

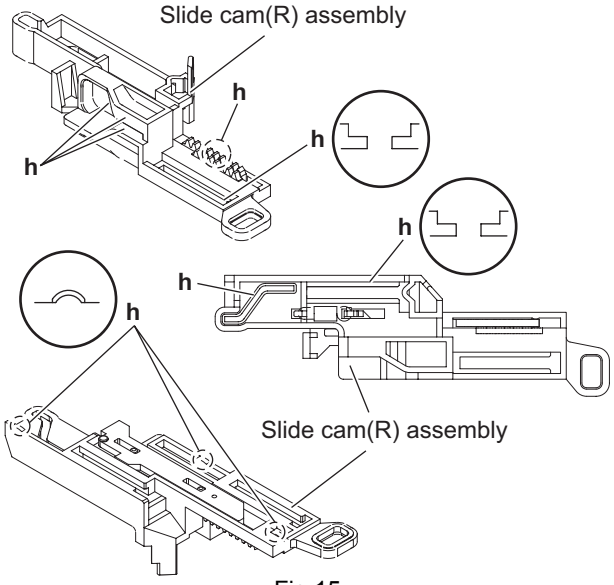


Fig.15

3.2.8 Removing the damper (See Fig.16)

- Remove the MECHANISM CONTROL BOARD assembly, top cover and mechanism section.
  From the mechanism section, pull out the three dampers in the direction of the arrow.

Reference:

Before inserting the shaft to the dampers, apply IPA to the pocket **j** of damper.

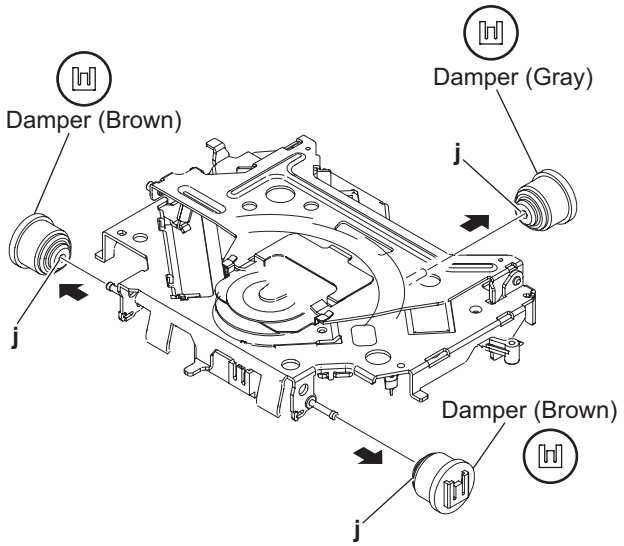


Fig.16

3.2.9 Removing the clamper assembly (See Fig.17)

- Remove the MECHANISM CONTROL BOARD assembly, top cover and mechanism section.
  (1) From the top side of the mechanism section, release the clamper spring.
  (2) Move the clamper assembly in the direction of the arrow, and then release the joints (**k** and **m**).
  (3) Take out the clamper assembly from the T.M chassis assembly.

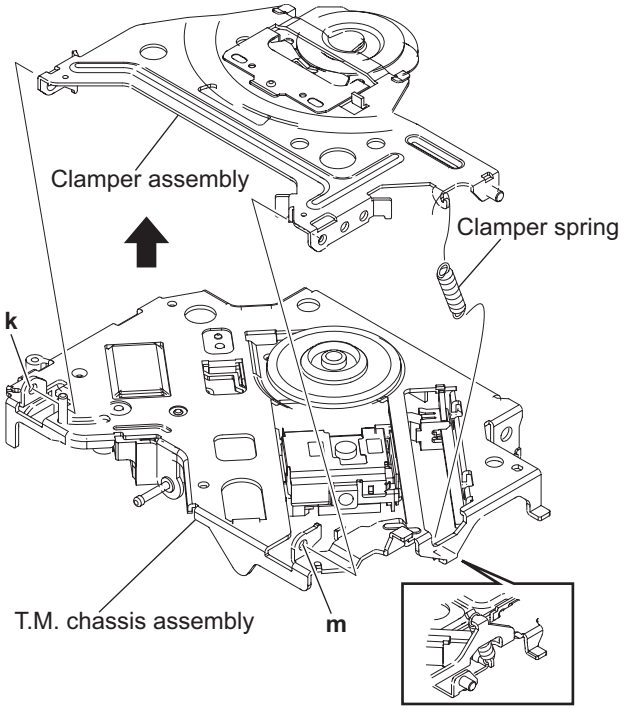


Fig.17

3.2.10 Removing the feed motor (See Fig.18 and 19)

- Remove the MECHANISM CONTROL BOARD assembly, top cover, mechanism section and clamper assembly.
  (1) From the bottom side of the T.M chassis assembly, remove the two screws **G** attaching the feed motor assembly. (See Fig.18.)
  (2) Remove the two screws **H** attaching the feed motor to f.motor holder. (See Fig.19.)

  Reference:

  When attaching the f. wheel gear, trigger arm and feed motor, apply grease to the sections (**n**, **p** and **q**). (See Fig.18 and 19.)

3.2.11 Removing the SWITCH BOARD assembly (See Fig.18)

- Remove the MECHANISM CONTROL BOARD assembly, top cover, mechanism section, clamper assembly and feed motor assembly.
  From the bottom side of the T.M chassis assembly, take out the SWITCH BOARD assembly in an upward direction from T.M chassis assembly.

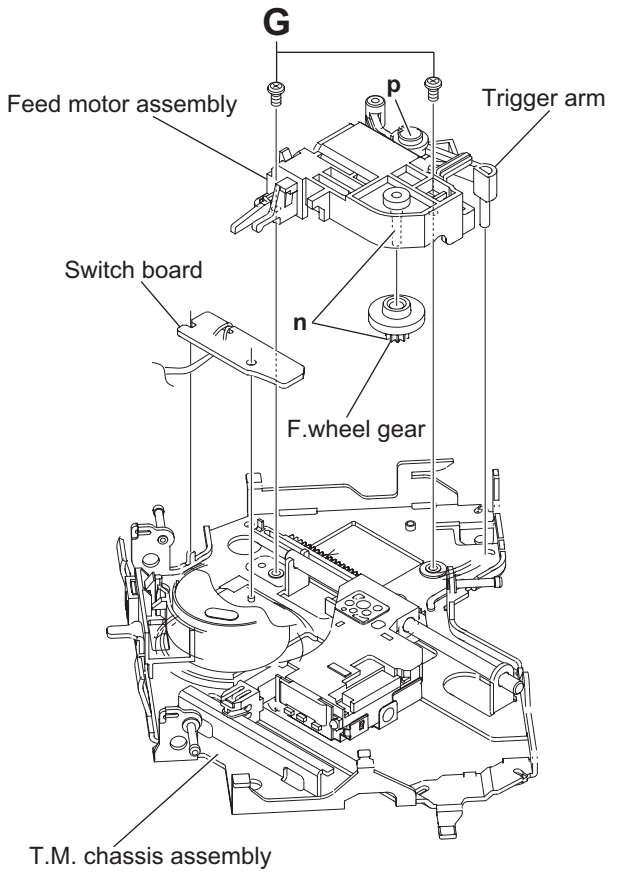


Fig.18

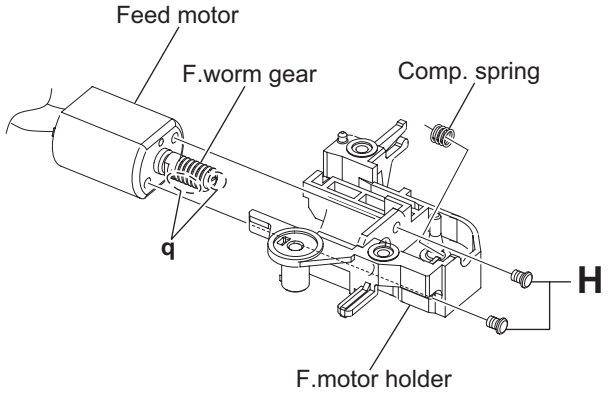


Fig.19

3.2.12 Removing the loading motor (See Fig.20)

- Remove the MECHANISM CONTROL BOARD assembly, top cover, mechanism section and clamper assembly.
  (1) From the right side of the L.M base assembly, remove the two screws **J** attaching the loading motor.
  (2) Take out the loading motor in the direction of the arrow from the L.M base assembly.

  Reference:

  When attaching the loading motor, apply grease to the section **r**.

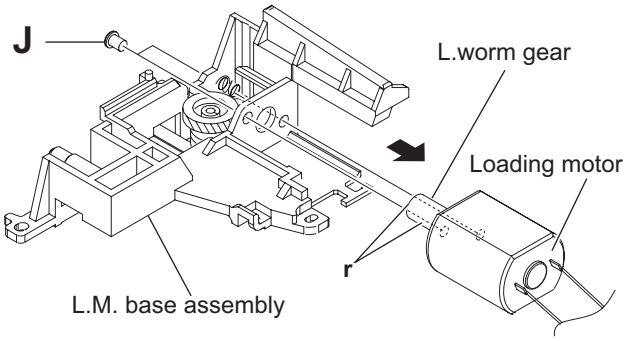


Fig.20

3.2.13 Removing the pickup assembly (See Fig.21 to 22)

- Remove the MECHANISM CONTROL BOARD assembly, top cover, mechanism section, clamper assembly and feed motor assembly.

Caution:

- Do not touch section **u** on the pickup assembly. (See Fig.21 and 22.)

(1) From the bottom side of the T.M chassis assembly, move the pickup assembly in the direction of the arrow from the T.M chassis assembly. (See Fig.21.)
(2) Pull out the main shaft. (See Fig.21.)
(3) Remove the screw **K** attaching the pickup to the rack plate. (See Fig.22.)

Reference:

When attaching the loading motor, apply grease to the sections **s** and **t**. (See Fig.21.)

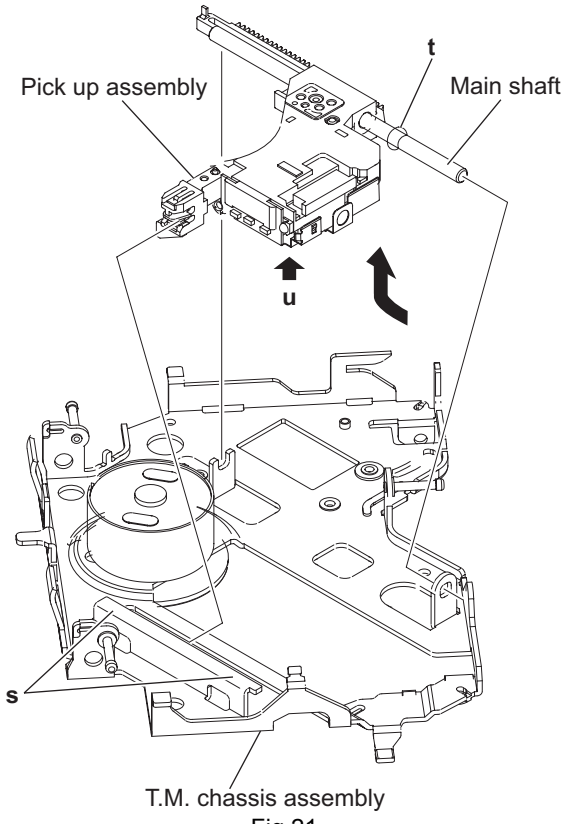


Fig.21

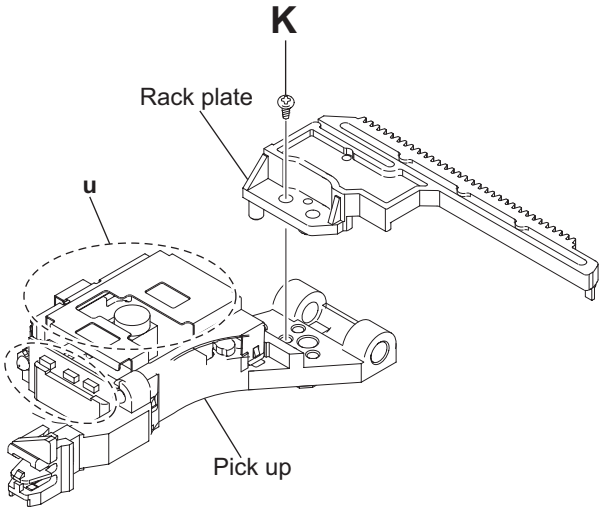


Fig.22

3.2.14 Removing the spindle motor (See Fig.23 and 24)

- Remove the MECHANISM CONTROL BOARD assembly, top cover, mechanism section, clamper assembly, feed motor assembly and pickup assembly.

(1) From the top side of the T.M chassis assembly, remove the CD T.table assembly from the spindle motor. (See Fig.23.)
(2) Remove the two screws **L** attaching the spindle motor. (See Fig.23.)
(3) Take out the spindle motor from the bottom side of the T.M chassis assembly. (See Fig.23.)

Reference:

When attaching the CD T.table assembly to the spindle motor shaft, apply loctite 460 to inside the CD T.table assembly. (See Fig.24.)

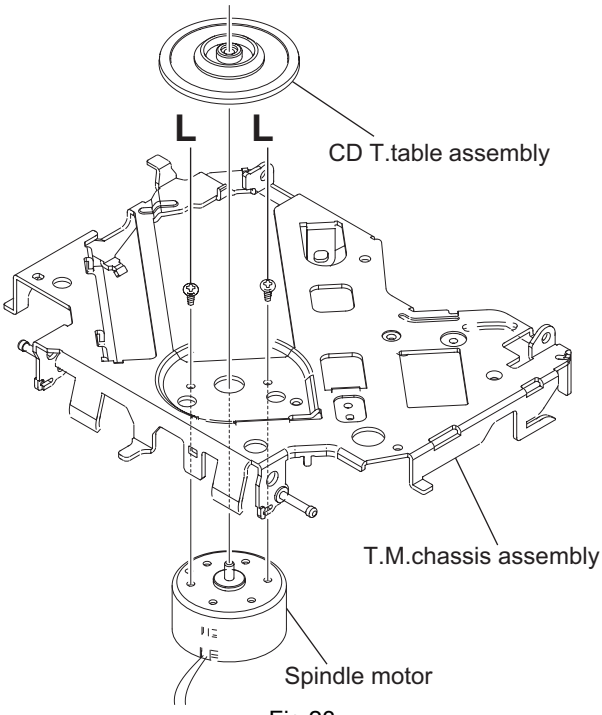


Fig.23

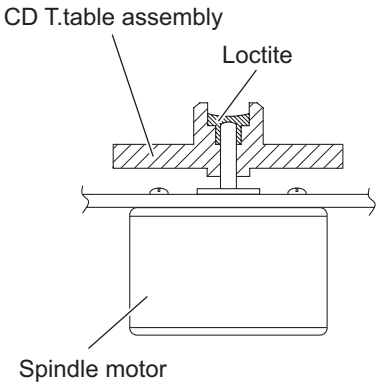


Fig.24

SECTION 4
ADJUSTMENT

4.1 Test instruments required for adjustment

(1) Digital oscilloscope (100MHz)
(2) Digital tester
(3) Test Disc
(4) Extension cable : EXTCD004-28P

4.2 Standard measuring conditions

Power supply voltage DC14.4V(10.5 to 16V)
Load impedance 20K ohm (2 Speakers connection)
Output Level Line out 2.5V (Vol. MAX)

4.3 Standard volume position

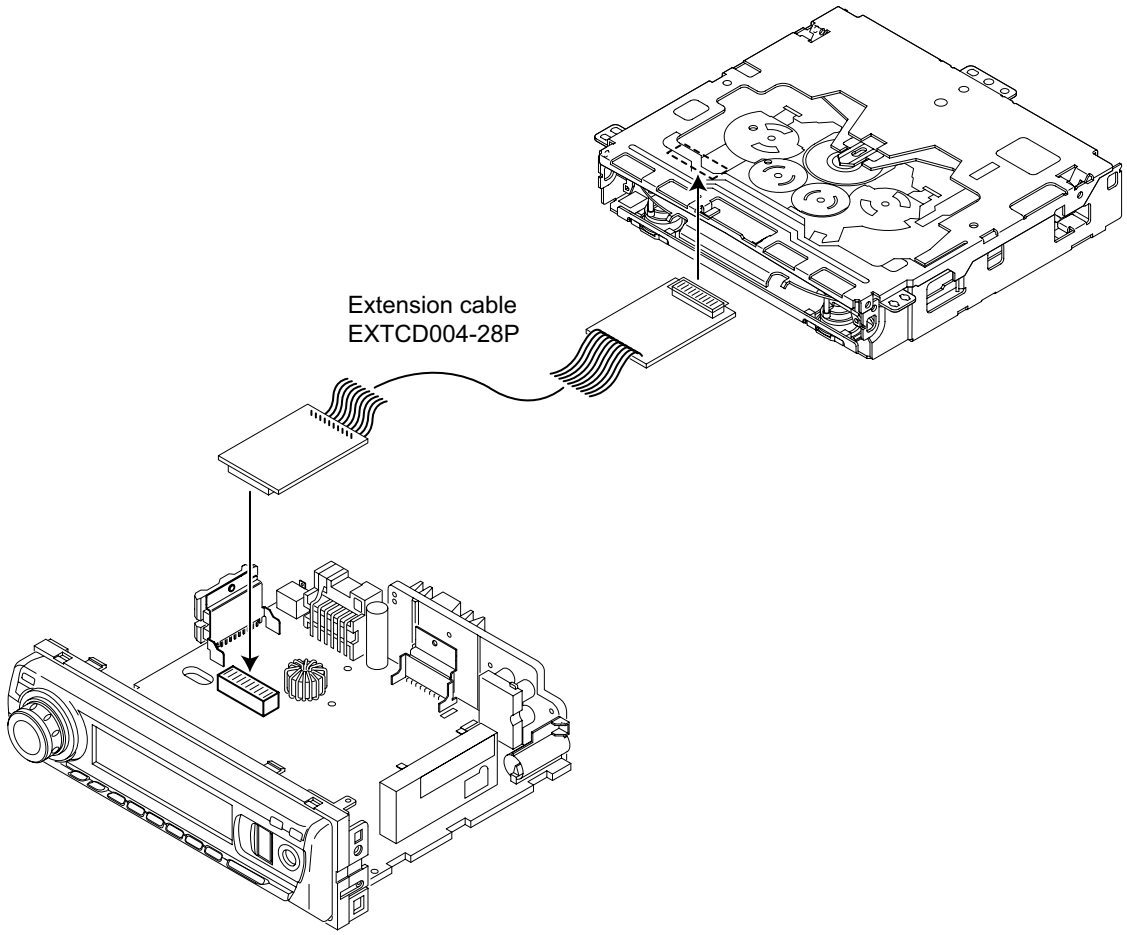
Balance and Bass &Treble volume : Indication"0"
Loudness : OFF

4.4 Dummy load

Exclusive dummy load should be used for AM,and FM.
For FM dummy load, there is a loss of 6dB between SSG output and antenna input.
The loss of 6dB need not be considered sincedirect reading of figures are applied in this working standard.

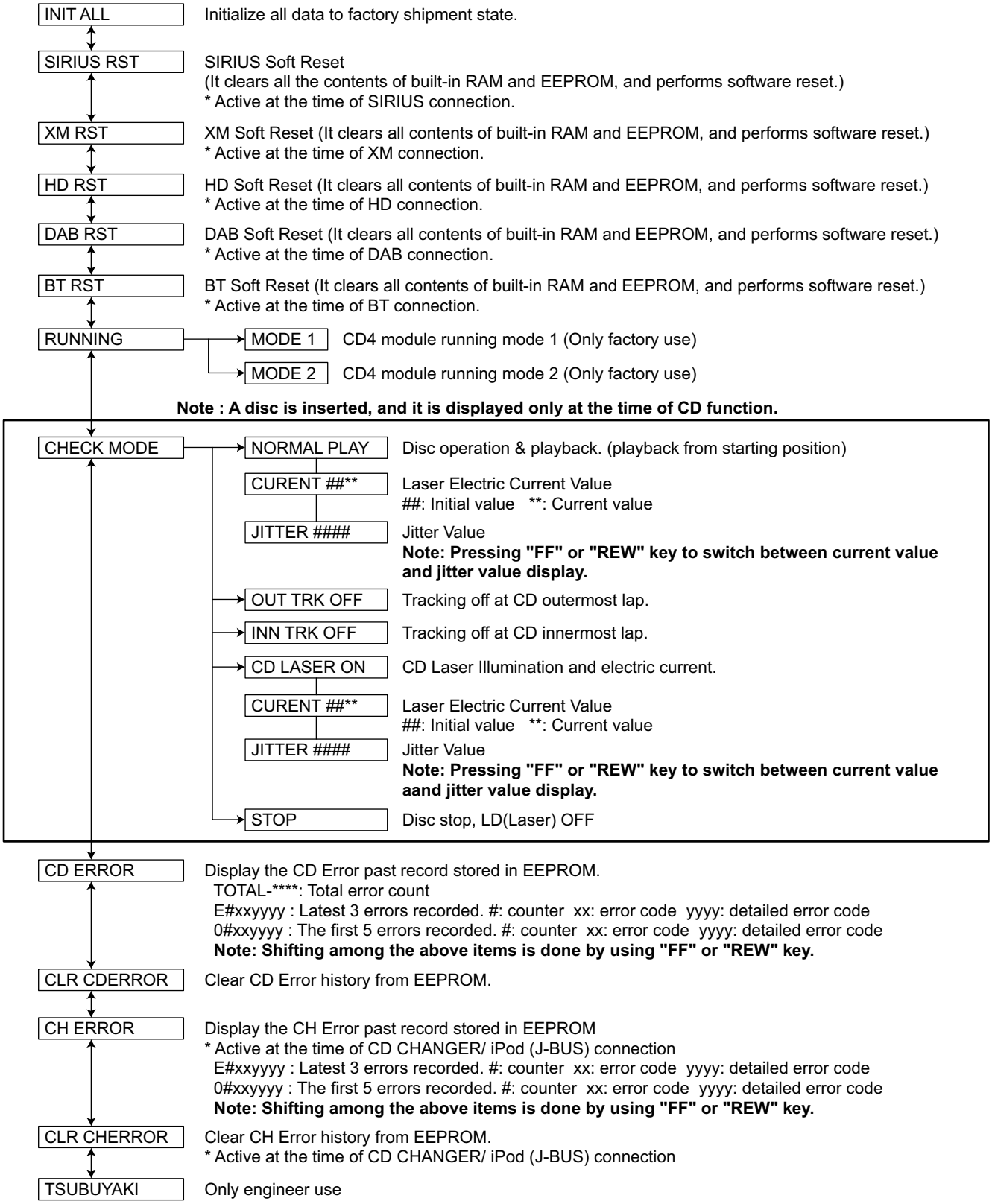
4.5 How to connect the extension cable for adjusting

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.



4.6 Service mode

Operating key: [MENU] → [DOWN] (3 sec)
Navigation key : Press [SEL] in any main display item to select that option.
Volume Knob Turn: forward and backward selection



4.7 Tuner service mode

Key operation (FM, AM and DAB mode)
Enter service mode: [SEL] → [MENU] (3 sec)
Exit service mode: press [ENTER] (SEL) key.
Go to next item: press [DISP] key
Back to previous item: press [BACK] key

VER=#***	MICON version display # indicates destination: J=USA, U=OTHERS (eg. ASIA), R=EUROPE, E=EASTERN EUROPE *** indicates version No.
CD4V####	CD4 module version display.
########	Tuner device and version identification display Display :TOM V1 for TOMIC V1 tuner. Display :TOM V2 for TOMIC V2 tuner. Display :ATOM V2 for ATOMIC V2 tuner. Display: ATOM V3 for ATOMIC V3 tuner.
TINJ= ##	Tuner injection indicator "##" indicates current tuner injection.
SPI=####	FOR DAB ONLY To link SID display that DAB receives and FM station (Search PI), the reception situation of DAB is displayed. "####" indicates SID code.
	FOR RDS ONLY
PI =####	PI display of receiving station, "####" indicates PI code.
PTY=##	PTY display of receiving station (00~29), "##" indicates PTY code.
TP=#TA=*	TP, TA display of receiving station "#" indicates TP ON/OFF: 1=ON; 0=OFF; "*" indicates TA ON/OFF: 1=ON; 0=OFF.
MS=#DI=*	M/S, DI display of receiving station "#" indicates M/S ON/OFF: 1=ON; 0=OFF; "*" indicates DI ON/OFF: 1=ON; 0=OFF.
AF=####	Display the contents of AF memory (by scrolling) "####" indicate AF frequencies.
LEV= ##H	Field strength indicator.
U&W= ##H	Adjacent and Multipath noise level indicator.
IFC= ##H	IF COUNTER result indicator.
IFBW= #	FM IF filter bandwidth indicator.
RFAGC=##	FM RF AGC resulting attenuation.
IFAGC=##	FM IF AGC resulting attenuation.
##**	CLOCK display of receiving station (Original DISP key operation)
########	FOR RDS ONLY PS NAME display of receiving station (Original DISP key operation)
#####	FREQUENCY display of receiving station (Original DISP key operation)

4.8 Error code

4.8.1 Mechanical Error Detail Codes

Condition	Details	Error Code	Detail Code
LOADING Error	Error without SW change in LOAD when time-out is done		
B1 time out	When there is no change in the state of the switch from the state with DISC forward.	09	0011
C1 time out	When there is no change in the state of the switch from the state that DISC is drawn in a half.	09	0012
B2 time out	When there is no change in the state of the switch from the state that DISC is in the interior.	09	0015
EJECT Error	Error without SW change in EJECT when time-out is done.		
B1 time out	When there is no change in the state of the switch from the state that DISC is in the interior.	01	0023
C2 time out	When there is no change in the state of the switch from the state that DISC is drawn in a half.	01	0026
B2 time out	When there is no change in the state of the switch in EJECT from initial LOAD ERROR.	01	0027
FORCE EJECT Error	Transition to Force EJECT waiting or Force EJECT transition from error by abnormal SW.		
E1 FORCE EJECT ERROR	When detect abnormal SW from the state of NO DISC	01	0041
E2 FORCE EJECT ERROR	When detect abnormal SW from the state with DISC forward in LOAD.	01	0042
E3 FORCE EJECT ERROR	When detect abnormal SW from the initial state.	01	0043
E5 FORCE EJECT ERROR	When detect abnormal SW from the state that half DISC is drawn in LOAD and EJECT.	01	0045
E7 FORCE EJECT ERROR	When detect abnormal SW from the state that DISC is in the interior in LOAD and EJECT.	01	0047
E8 FORCE EJECT ERROR	When receive Force EJECT key after it makes an error from Force EJECT.	01	0048
E9 FORCE EJECT ERROR	When receive Force EJECT key after it makes an error from LOAD error or EJECT error.	01	0049
Error in Running mode			
Case 1	When DISC was extracted or fall in EJECT END and EJECT START.	09	0031
Case 2	When DISC is pushed in EJECT END.	09	0032

4.8.2 Disc error code

Condition	Details	Error Code	Detail Code
TOC READING Error	When it hasn't completed CD TOC reading.	84	0059
1'st track access Error	It doesn't end even if the first track access passes 30sec after the TOC reading ends in the running mode.	80	0060
Last track access Error	It doesn't end even if the last track access passes 30sec after the first track ends in the running mode.	80	0061
NO DISC judgment	It be judged NO DISC.	80	0090
NO DISC with start failure	Not possible to start.	80	0091
Stopped with no playback	When it was stopped in playback in the running mode.	80	0093
Logical format NG	Analysis of logical format is impossible or it does not correspond to logical formats.	80	0094

4.8.3 CD changer mechanism error code

Condition	Details	Error Code	Detail Code
Tray eject error	Tray motor time over		
1.TRAYINSW time over (TRAYINSW:L, TRAYOUTSW:H)	Tray motor does not operate	03	0011
2.TRAYOUTSW time over (TRAYINSW:H, TRAYOUTSW:H)	Tray stops	03	0012
3.TRAYIN/OUTSW time over (TRAYINSW:L, TRAYOUTSW:L)	TRAYINSW NG etc	03	0013
4.MAGINSW:L→H	Magazine is ejected while Tray is being returned	03	0014
Tray return error	Tray motor time over		
1.TRAYOUTSW time over (TRAYINSW:H, TRAYOUTSW:L)	Tray motor does not operate	03	0016
2.TRAYINSW time over (TRAYINSW:H, TRAYOUTSW:H)	Tray stops	03	0017
3.TRAYIN/OUTSW time over (TRAYINSW:L, TRAYOUTSW:L)	TRAYOUTSW NG etc	03	0018
4.MAGINSW:L→H	Magazine is ejected while Tray is being returned	03	0019
Lifter up error	Position motor time over		
1.WAIT position time over	Position motor does not operate	02	0021
2.WAIT position time over	Position is not stable in fine adjustment mode	02	0022
3.WAIT position time over	Other condition	02	0023
Lifter down error	Position motor time over		
1.WAIT position time over	Position motor does not operate	02	0026
2.WAIT position time over	Position is not stable in fine adjustment mode	02	0027
3.WAIT position time over	Other condition	02	0028
Chucking error	Position motor time over		
1.Play position time over	Position motor does not operate	02	0031
2.Play position time over	Position is not stable in fine adjustment mode	02	0032
3.Play position time over	Other condition	02	0033
Unchucking error	Position motor time over		
1.WAIT position time over	Position motor does not operate	02	0036
2.WAIT position time over	Position is not stable in fine adjustment mode	02	0037
3.WAIT position time over	Other condition	02	0038
Eject error	Eject cannot be carried out		
1.Eject position time over	Position motor does not operate	02	0041
2.Eject position time over	Improper EJECT position *	02	0042
3.MAGINSW time over	Magazine is not ejected	01	0043
Initialize error			
1.Mechanism SW NG error	TRAYINSW and TRAYOUTSW are L	03	0046
2.Absolute position time over	Position is not stable in absolute position	02	0047

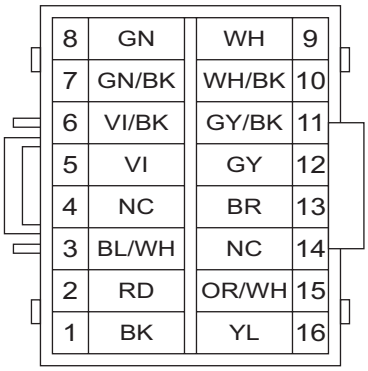
*"Position is not stable in WAIT position," "Position is not stable in PLAY position," and "Position is not stable in absolute position," and "Improper EJECT are all Position Motor TIME OVER.

4.8.4 CD changer disc error code

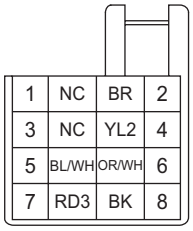
Condition	Details	Error code	Detail code
Pickup movement error 1.Time over of pickup movement in an inner direction (10s) 2.Time over of pickup movement in an outer direction (10s)	Time over at PUBWD and PUFWD by monitoring RESET SW Pickup cannot move in an inner direction RESET SW is not on Pickup cannot move in an outer direction RESET SW is not off	 04 04	 0051 0052
Focus search error Focus is not adjusted by 3-round focus search	When focus is not adjusted by 3-round(1set) focus search after disc change or focus shock, the result is NG	81	0053
Tracking balance adjustment error. Time over(1s)	Tracking balance adjustment is not finished 1s after adjustment command(TBA) is executed	82	0054
TOC area search error Time over (10s)	TOC area search is not finished after 10s	80	0055
Focus balance adjustment error Time over(2s)	Focus balance adjustment is not finished 2s after adjustment command(FBA) is executed	82	0056
Focus gain adjustment error Time over(0.6s)	Focus gain adjustment error is not finished 0.6s after adjustment command(FGA) is executed	82	0057
Tracking gain adjustment error Time over(0.6s)	Tracking gain adjustment error is not finished 0.6s after adjustment command(TGA) is executed	82	0058
TOC read error TIME over(30s)	TOC read operation is not finished after 30s	84	0059
First track access error Time over(10s)	First track access is not finished 10s after TOC reading is finished	80	0060
Last track access error Time over(10s)	Last track access is not finished 10s after first track in running mode	80	0061
Q code read error Time over(0.6s)	Q code is not read for 0.6s during playback of TOC and program area	80	0062

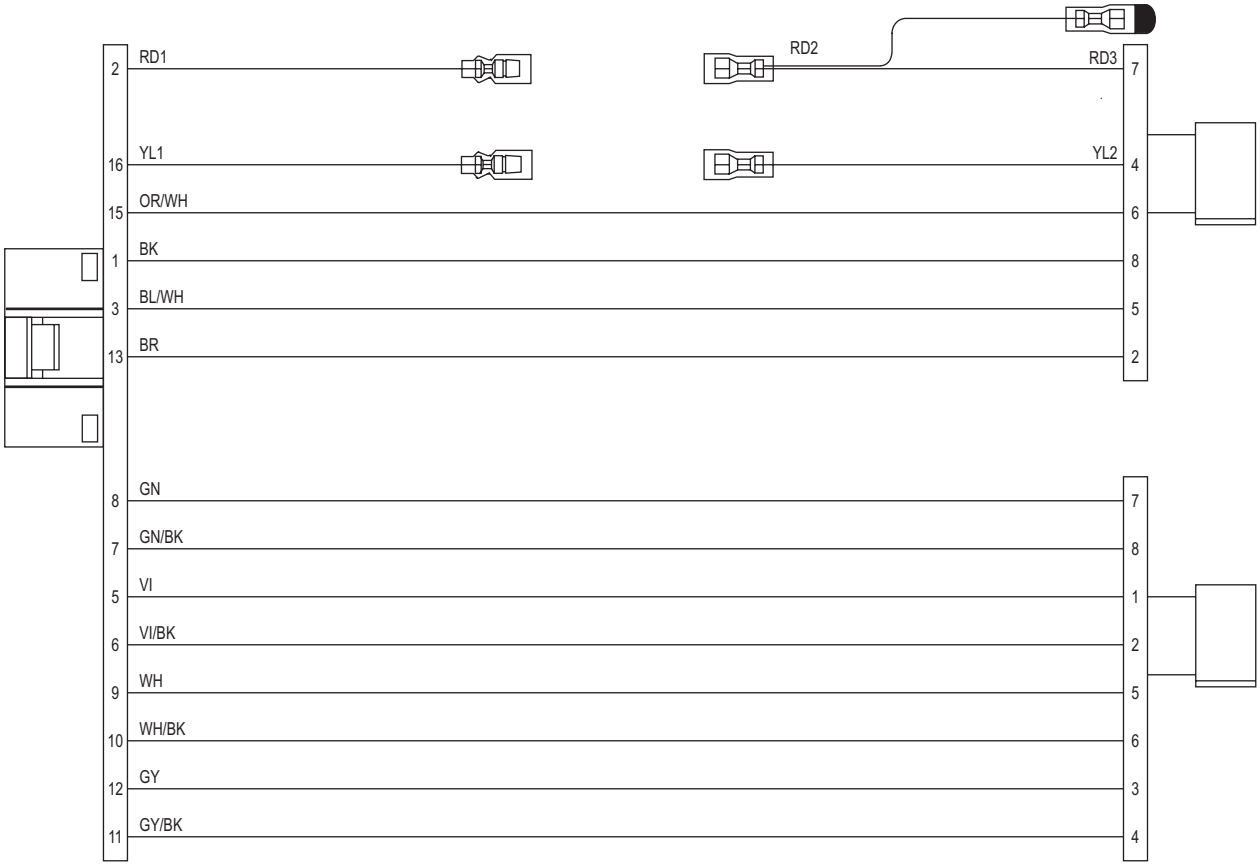
SECTION 5
TROUBLESHOOTING

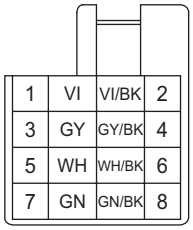
5.1 16 PIN CORD DIAGRAM (for KD-R701, KD-R707)



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



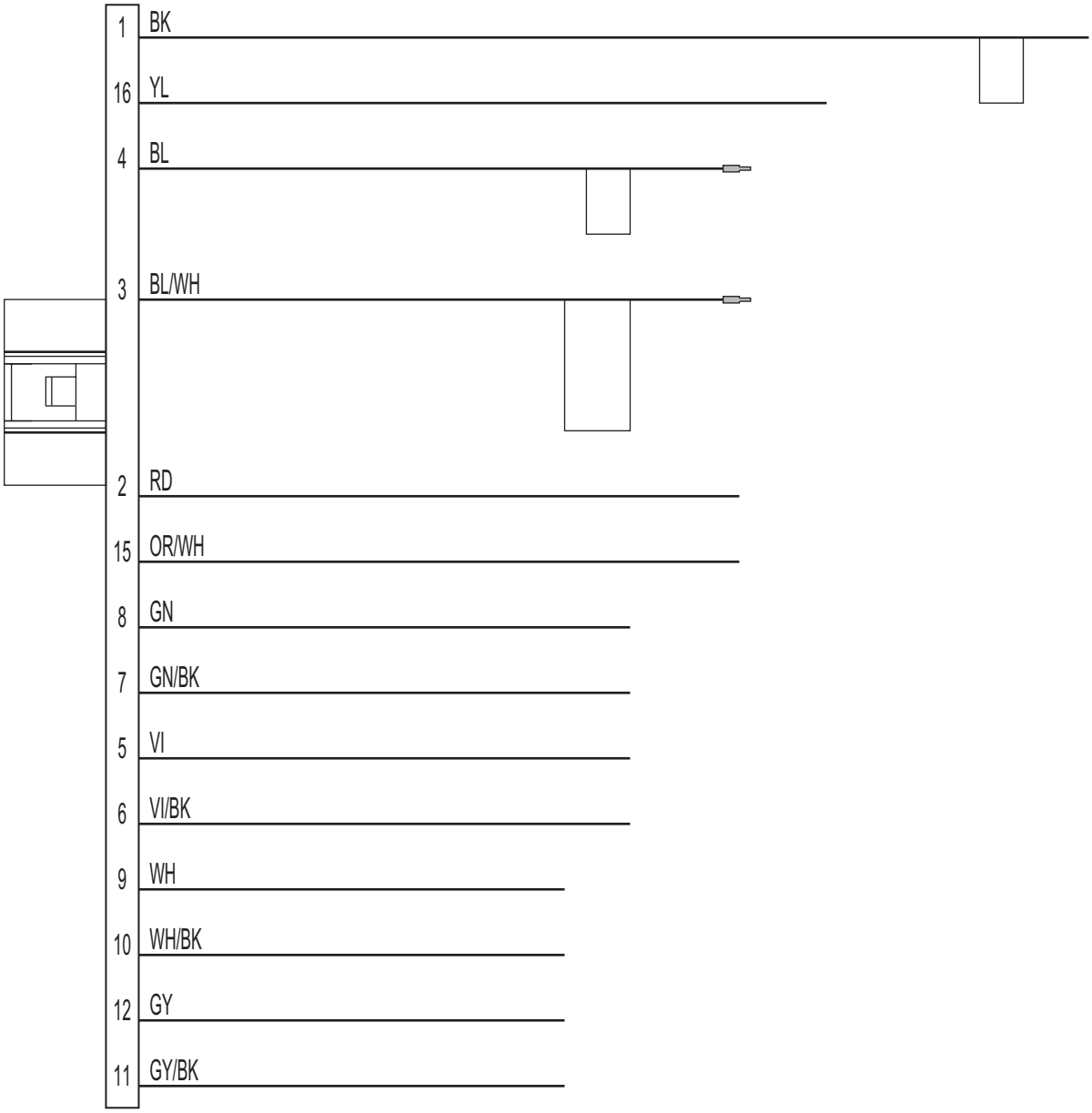




5.2 16 PIN CORD DIAGRAM (for KD-R705)

8	GN	WH	9
7	GN/BK	WH/BK	10
6	VI/BK	GY/BK	11
5	VI	GY	12
4	BL	NC	13
3	BL/WH	NC	14
2	RD	OR/WH	15
1	BK	YL	16

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



JVC

Victor Company of Japan, Limited
Mobile Entertainment Division 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MA445<Rev.001>)

Printed in Japan
VPT

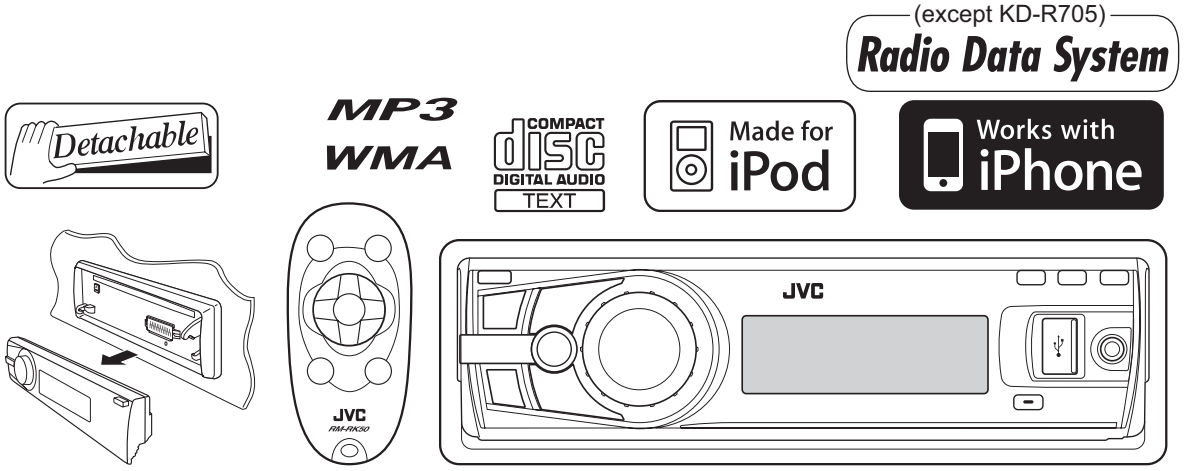
JVC

SCHEMATIC DIAGRAMS

CD RECEIVER

KD-R701E,KD-R701EX,KD-R701EY
KD-R701EU,KD-R705U,KD-R705UN
KD-R705UT,KD-R705UH,KD-R707EE

DVD-ROM No.SML2008Q4



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

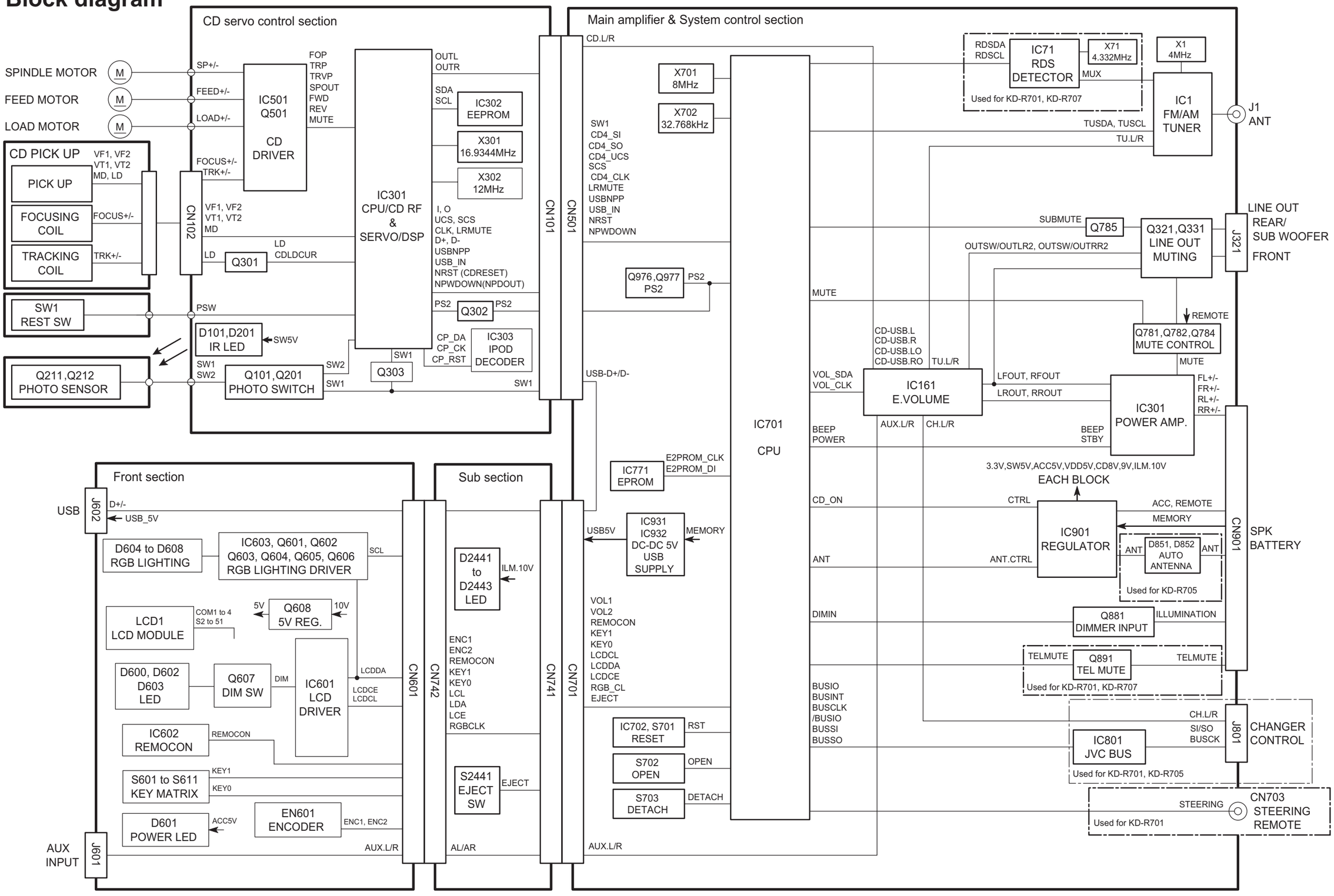
No.MA445SCH<Rev.001>
2009/3

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.**

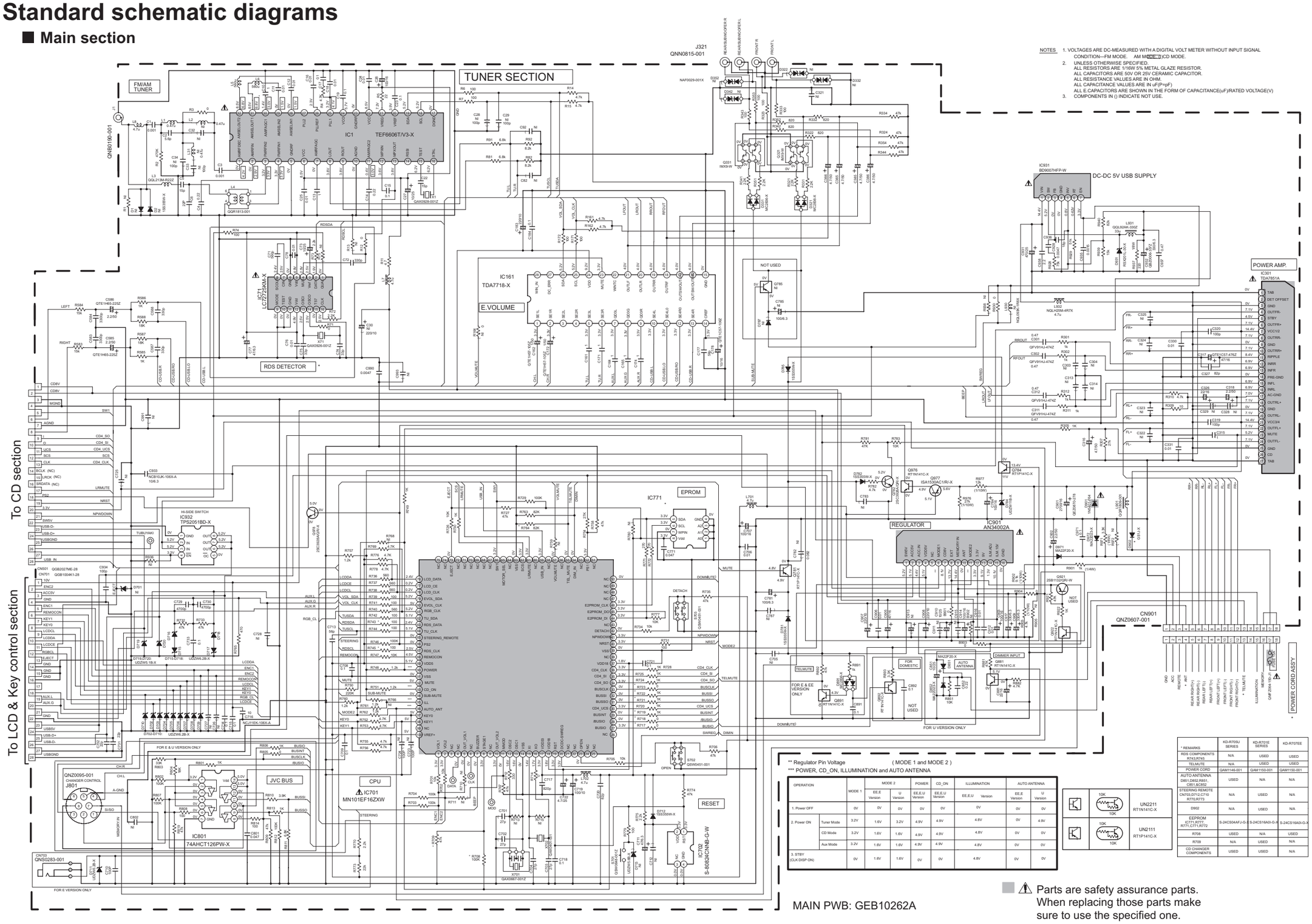
⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

Block diagram



Standard schematic diagrams

■ Main section



NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL
   CONDITION—FM MODE. AM MODE(IC) CD MODE.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W 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)
3. COMPONENTS IN ( ) INDICATE NOT USE.

** Regulator Pin Voltage (MODE 1 and MODE 2)
*** POWER, CD_ON, ILLUMINATION and AUTO ANTENNA

OPERATION		MODE 1	MODE 2		POWER	CD_ON	ILLUMINATION		AUTO ANTENNA	
			EE,E Version	U Version	EE,E,U Version	EE,E,U Version	EE,E,U	Version	EE,E Version	U Version
1. Power OFF		0V	0V	0V	0V	0V	0V		0V	0V
2. Power ON	Tuner Mode	3.2V	1.6V	3.2V	4.9V	4.9V	4.8V		0V	4.9V
	CD Mode	3.2V	1.6V	1.6V	4.9V	4.9V	4.8V		0V	0V
	Aux Mode	3.2V	1.6V	1.6V	4.9V	4.9V	4.8V		0V	0V
3. STBY (CLK DISP ON)		0V	1.6V	1.6V	0V	0V	4.8V		0V	0V

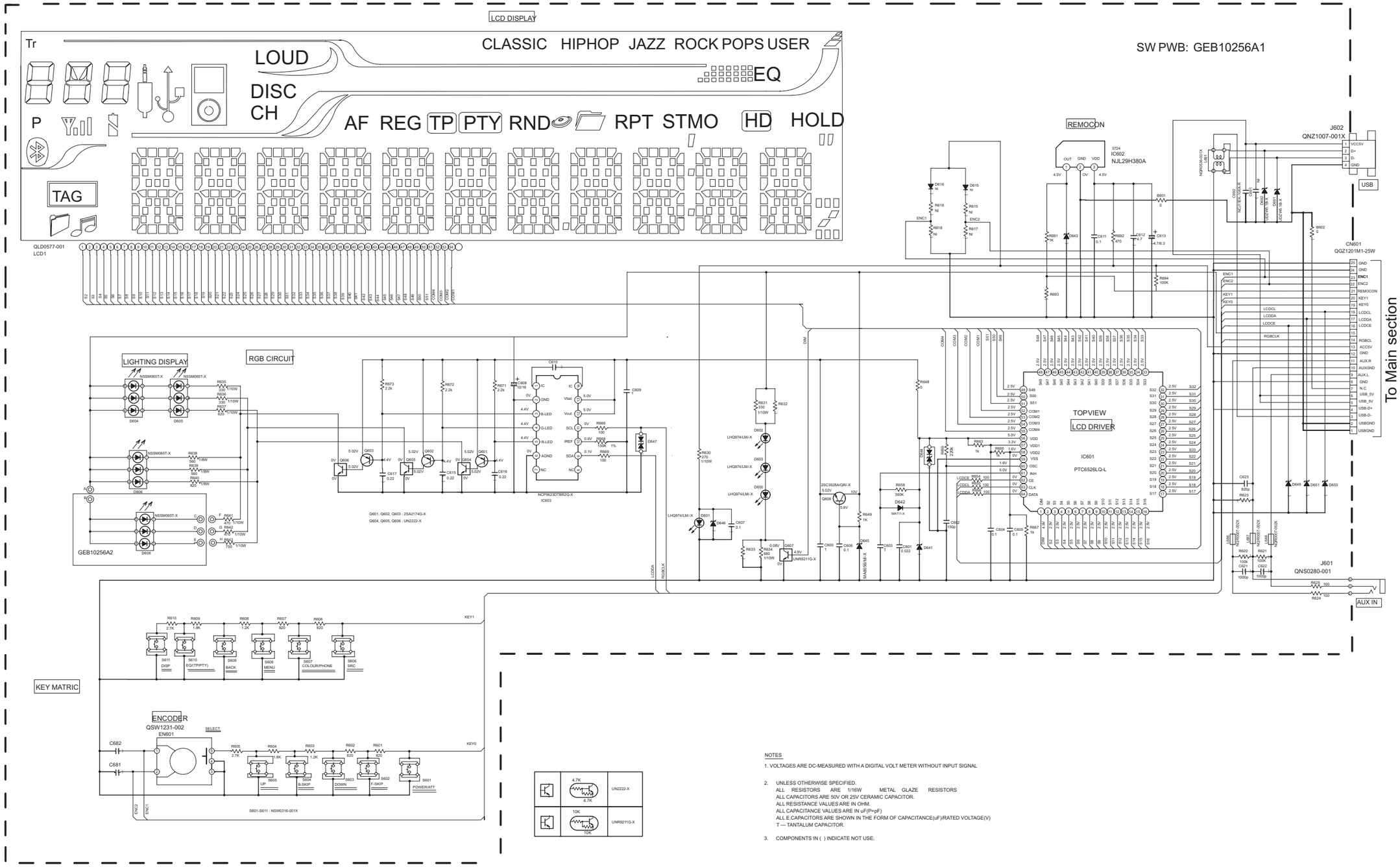
10K	10K	UN2211 RT1N141C-X
10K	10K	UN2111 RT1P141C-X

* REMARKS	KD-R705U SERIES	KD-R701E SERIES	KD-R707EE
RDS COMPONENTS R743,R745	N/A	USED	USED
TELMUTE	N/A	USED	USED
POWER CORD	QAM1146-001	QAM1150-001	QAM1150-001
AUTO ANTENNA D851,D852,R851, C851,C852	USED	N/A	N/A
STEERING REMOTE CN703,D712,C710 R715-R773	N/A	USED	N/A
D902	N/A	USED	N/A
EEPROM IC771,R777, R771,C771,R772	S-24C504AFJ-G-X	S-24C516A01-G-X	S-24C516A00-G-X
R706	USED	N/A	USED
R709	N/A	USED	N/A
CD CHANGER COMPONENTS	USED	USED	N/A

MAIN PWB: GEB10262A

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

■ LCD & Key control section



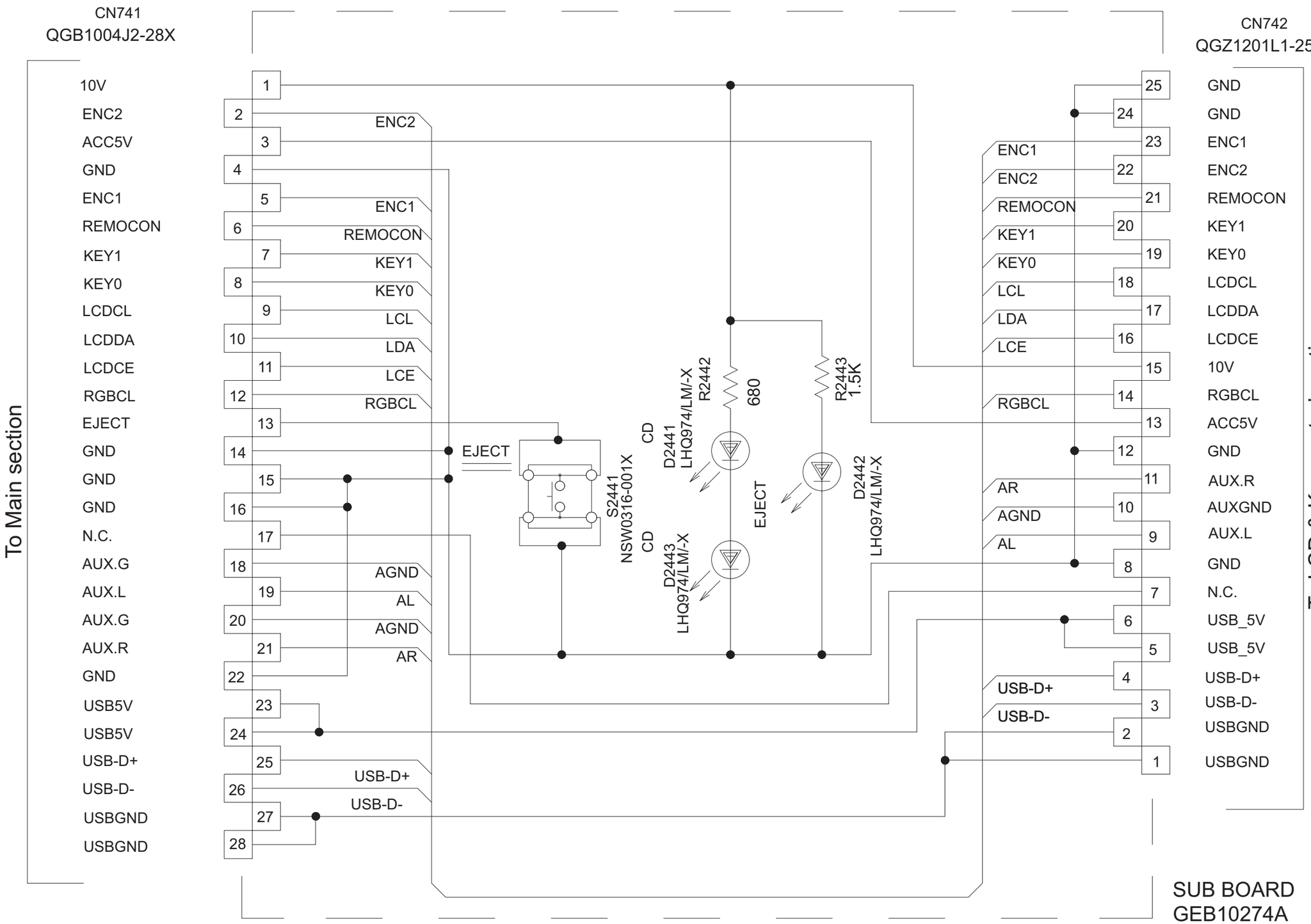
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL

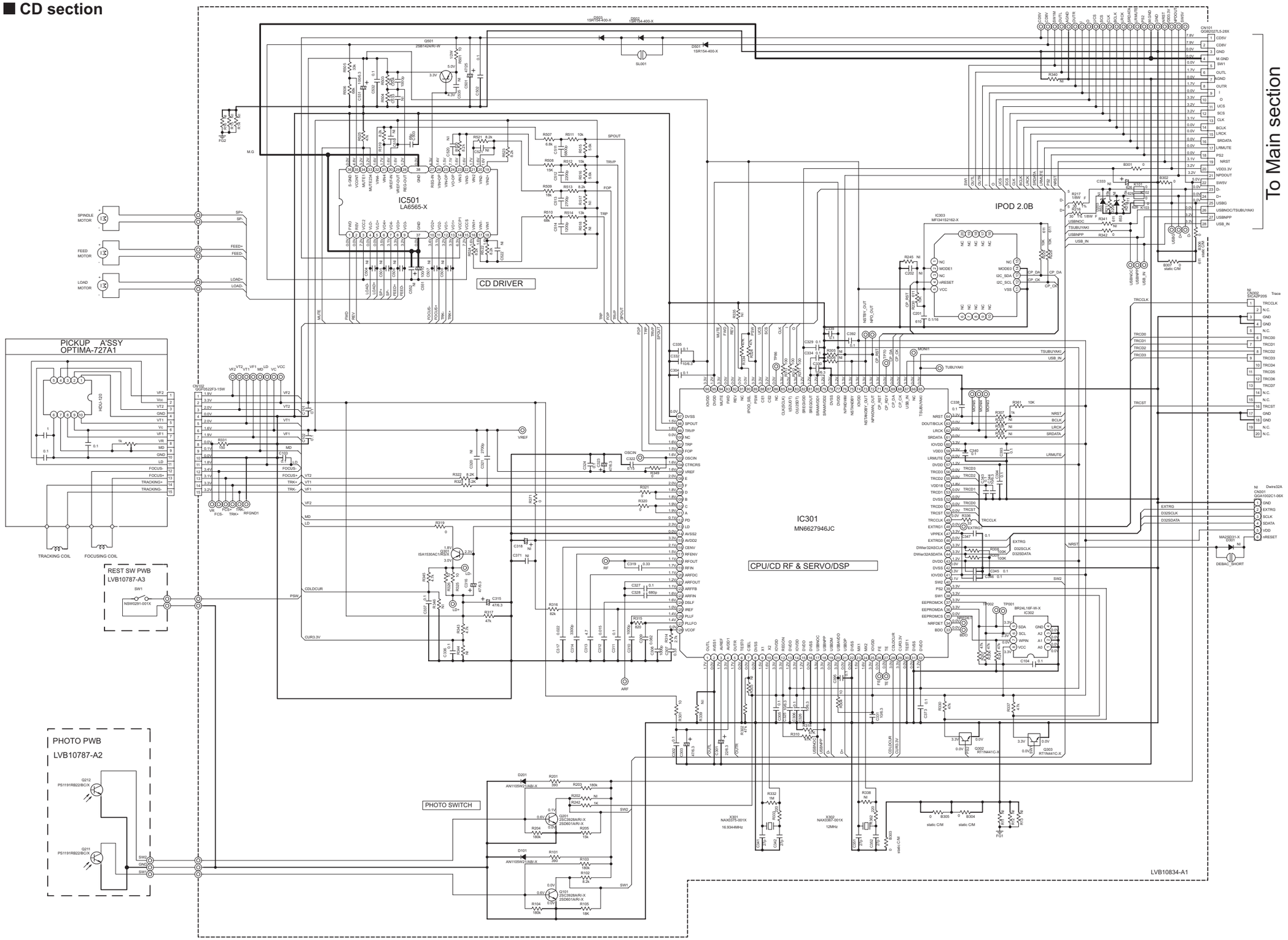
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W METAL GLAZE RESISTORS
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
   T --- TANTALUM CAPACITOR.

3. COMPONENTS IN ( ) INDICATE NOT USE.

■ Function section



■ CD section

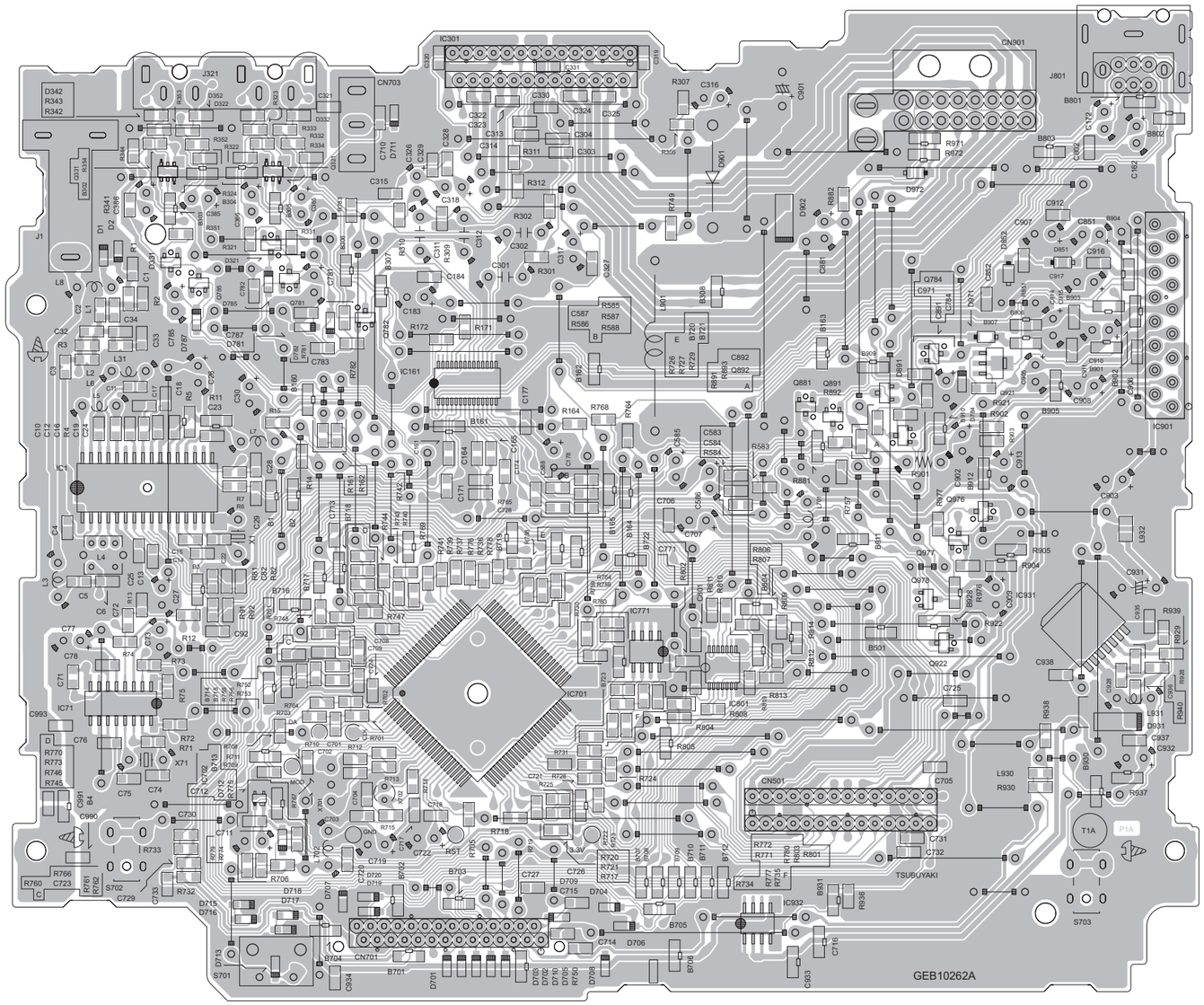

IC501
LA6565-X
CD DRIVER
IC303
MF34152162-X
IPOD 2.0B
IC301
MN6627946JC
CPU/CD RF & SERVO/DSP
IC302
BR24L16F-W-X
PICKUP A'SSY
OPTIMA-727A1
HDU-120
TRACKING COIL
FOCUSING COIL
REST SW PWB
LVB10787-A3
PHOTO PWB
LVB10787-A2
PHOTO SWITCH
SPINDLE MOTOR
FEED MOTOR
LOAD MOTOR
To Main section
LVB10834-A1

Printed circuit boards

■ Main board

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

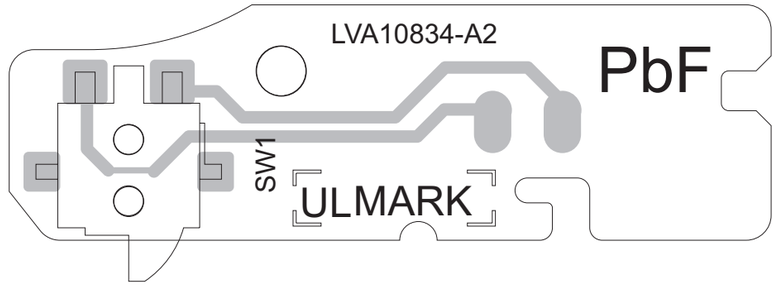
Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade)



■ CD switch 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)

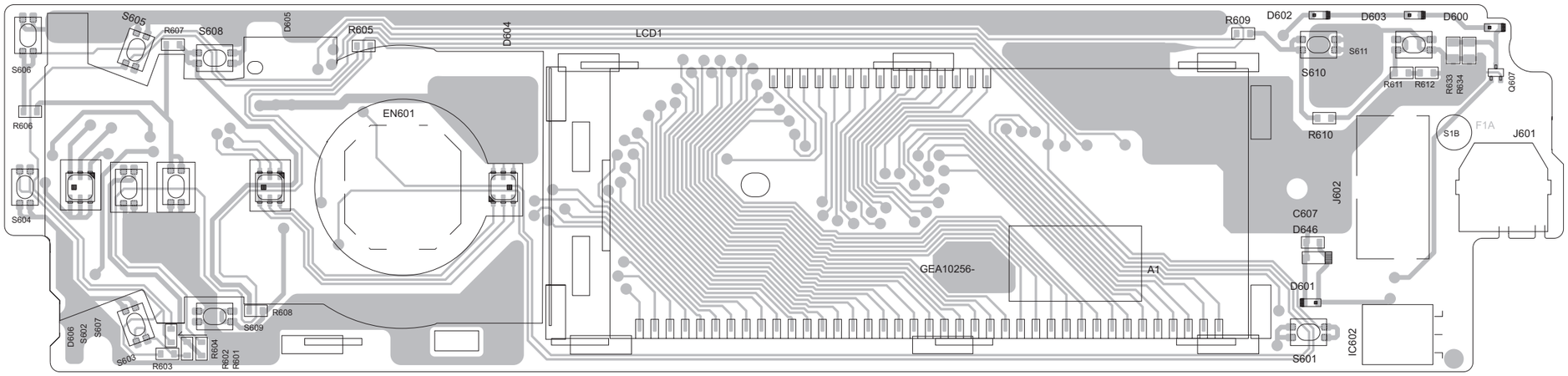


■ Switch board

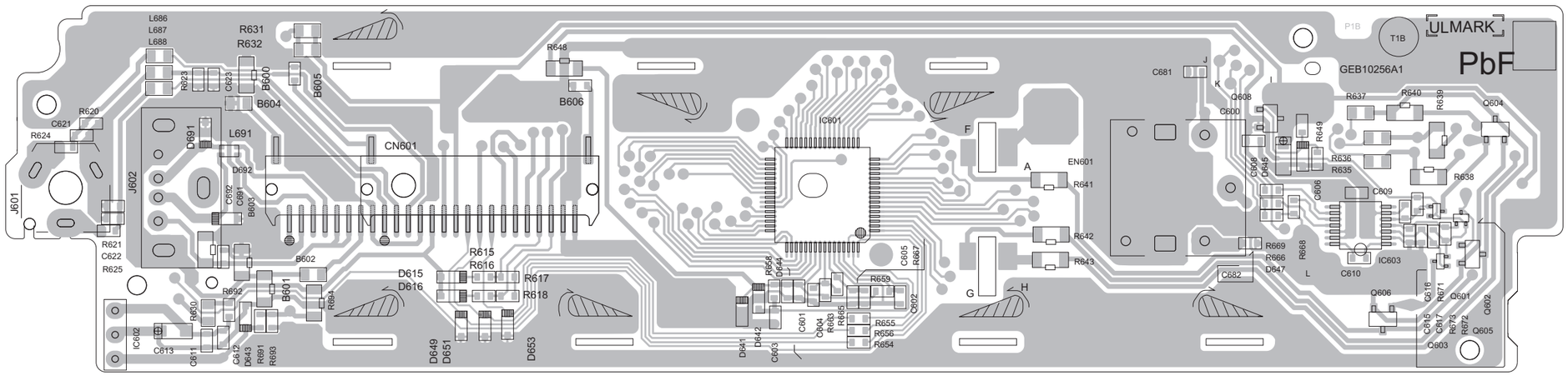
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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

forward side



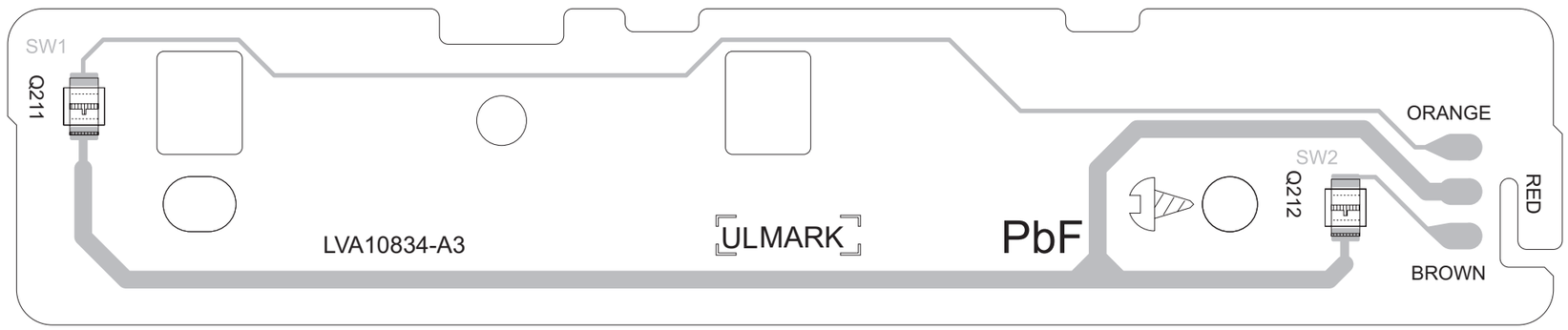
reverse side



■ Photo 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)

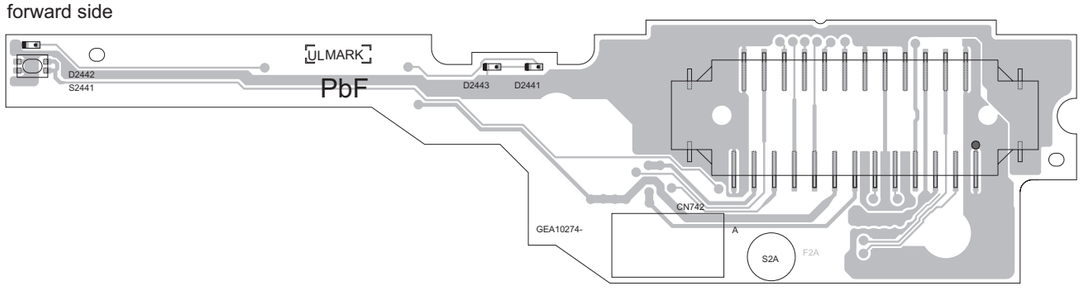


■ Function board

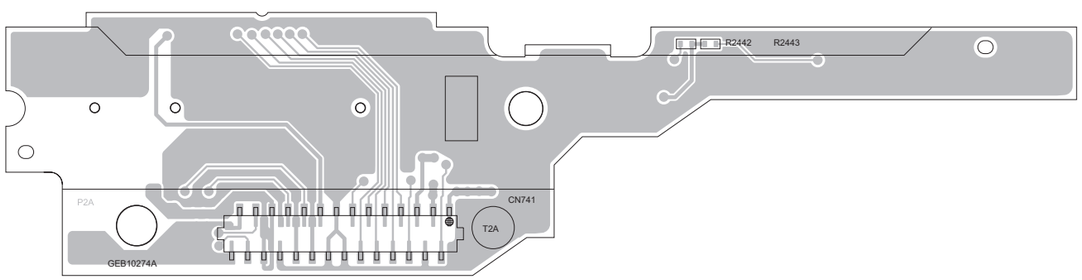
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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

forward side



reverse side

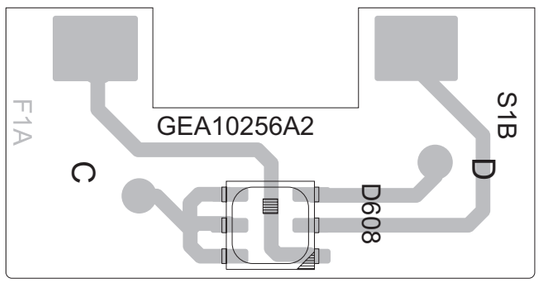


■ LED board

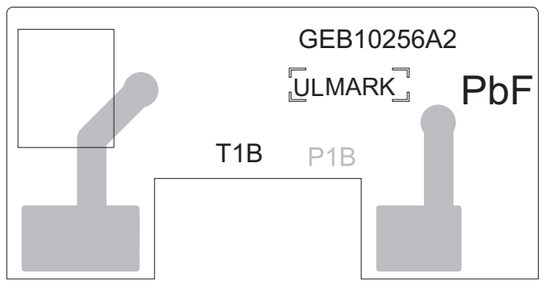
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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

forward side



reverse side

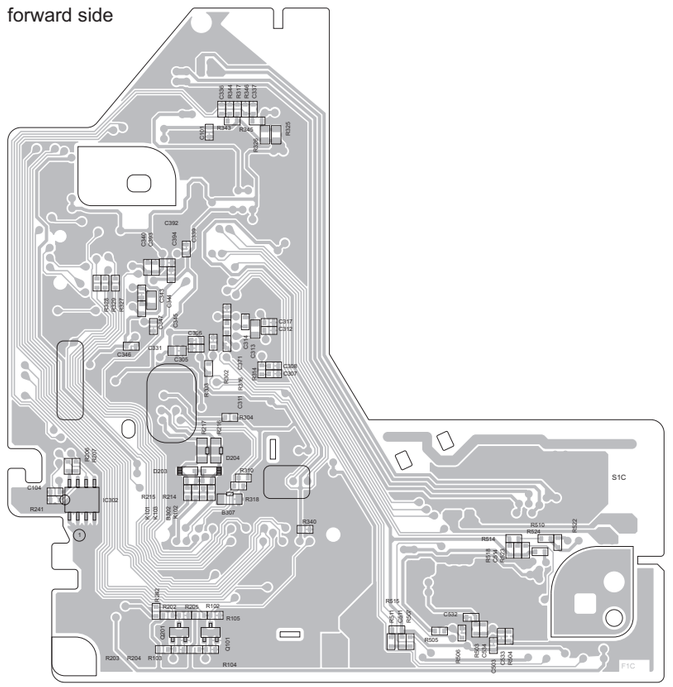


■ CD board

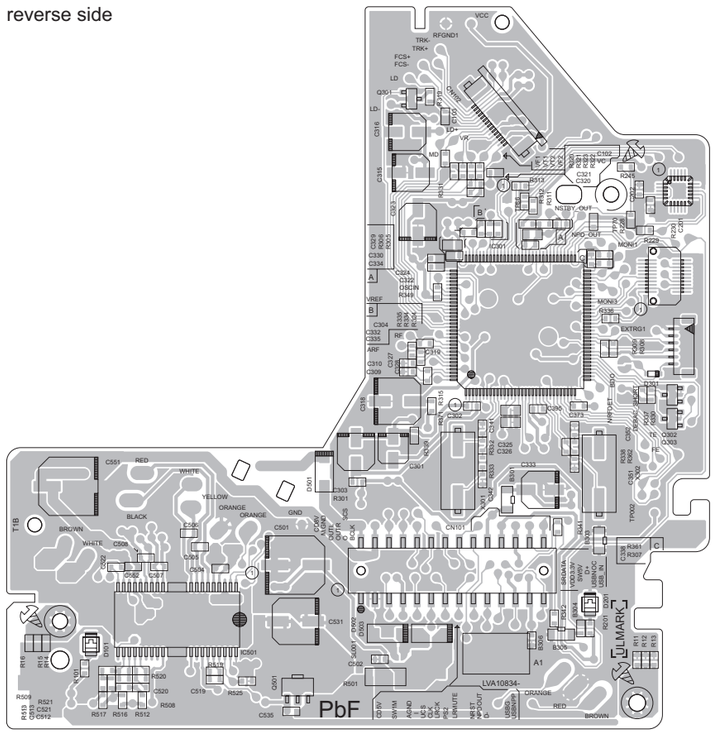
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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

forward side



reverse side



< MEMO >

JVC

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Mobile Entertainment Division 10-1,1chome,Ohwatari-machi,Maebashi-city,Gumma-ken,371-8543,Japan

(No.MA445SCH<Rev.001>)

Printed in Japan
VPT

PARTS LIST

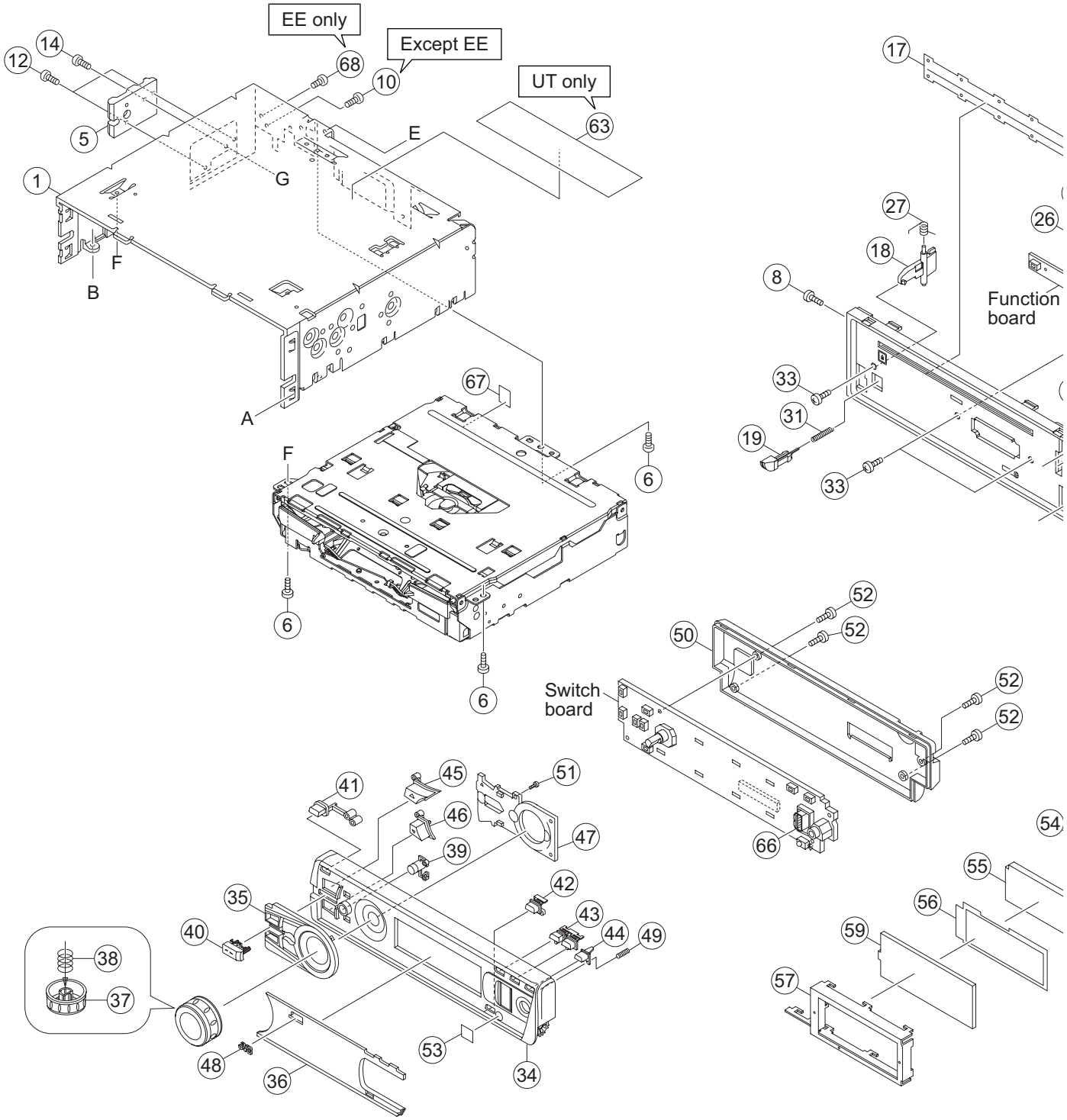
KD-R701E,KD-R701EX,KD-R701EY
KD-R701EU,KD-R705U,KD-R705UN
KD-R705UT,KD-R705UH,KD-R707EE

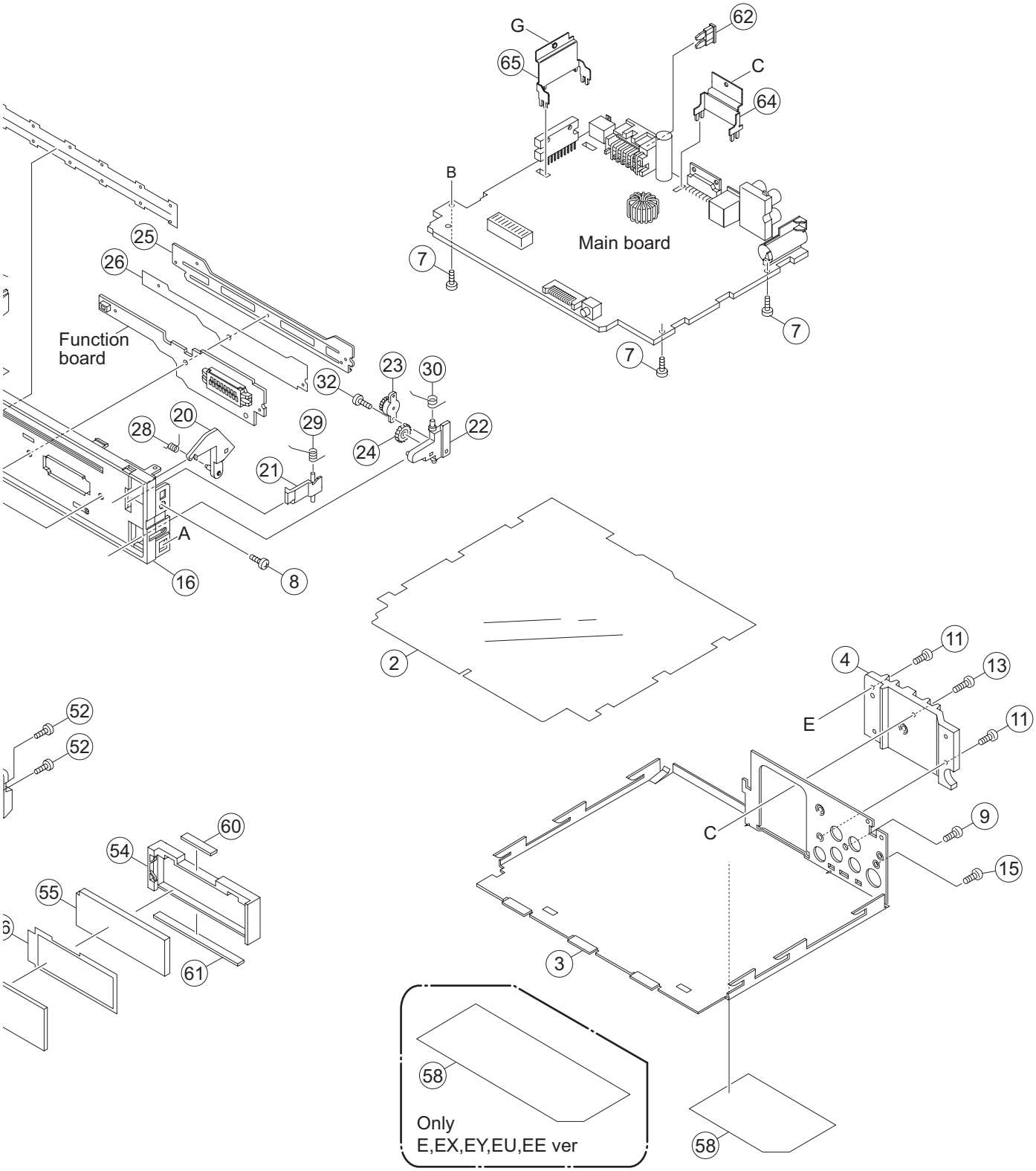
* All printed circuit boards and its assemblies are not available as service parts.

- Contents -

Exploded view of general assembly and parts list

Block No. M 1 M M





The parts without symbol number are not service.

General Assembly

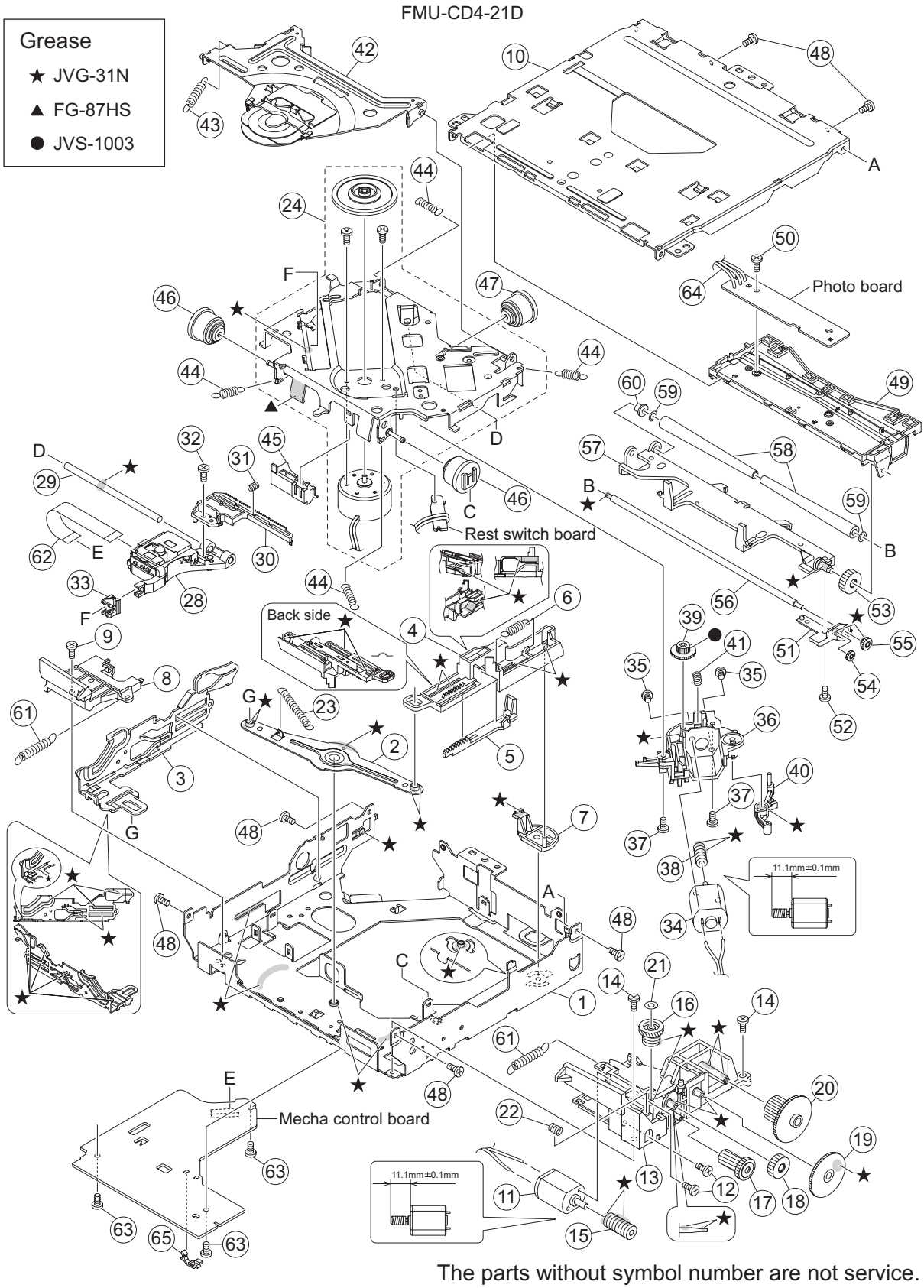
Block No. [M][1][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	GE10258-002A	TOP CHASSIS		701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
	1	GE10258-001A	TOP CHASSIS		707EE
	2	GE33497-001A	INSULATOR		
	3	GE20254-004A	BOTTOM COVER		701E,701EX,701EY,701EU
	3	GE20254-003A	BOTTOM COVER		705U,705UN,705UT,705UH,707EE
	4	GE33234-001A	HEATSINK		
	5	GE40395-001A	SIDE PANEL		
	6	QYSDST2604ZA	TAP SCREW	M2.6 x 4mm(x3)	
	7	GE40377-002A	SCREW	(x3)	
	8	QYSDST2004ZA	TAP SCREW	M2 x 4mm(x2)	
	9	QYSDSF2606ZA	TAP SCREW	M2.6 x 6mm	
	10	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
	11	GE40377-001A	SCREW	(x2)	
	12	GE40377-002A	SCREW	(x2)	
	13	QYSDST2610ZA	TAP SCREW	M2.6 x 10mm	
	14	QYSDST2608ZA	TAP SCREW	M2.6 x 8mm	
	15	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	
	16	GE33503-001A	F.CHASSIS ASSY		
	17	GE40454-001A	BLIND		
	18	GE33084-001A	LOCK LEVER(L)		
	19	GE33493-001A	DETACH LEVER		
	20	GE33491-001A	OPEN LEVER		
	21	GE33492-001A	LOCK LEVER(T)		
	22	GE33083-001A	LOCK LEVER(R)		
	23	QZW0108-002	DAMPER		
	24	GE40154-001A	GEAR		
	25	GE33495-001A	CONNECTOR BKT		
	26	GE40462-001A	INSULATOR		
	27	GE40456-002A	T.SPRING		
	28	GE40461-001A	T.SPRING		
	29	GE40455-003A	T.SPRING		
	30	GE40472-001A	T. SPRING		
	31	GE40202-023A	COMPRESSION SPRING		
	32	QYSDSF2006ZA	TAP SCREW	M2 x 6mm	
	33	GE40425-001A	SCREW	(x3)	
	34	GE33499-002A	FRONT PANEL ASSY		
	35	GE33502-002A	FINDER L ASSY		701E,701EX,701EY,701EU
	35	GE33502-004A	FINDER L ASSY		705U,705UN,705UT,705UH
	35	GE33502-003A	FINDER L ASS		707EE
	36	GE33501-002A	FINDER ASSY		701E,701EX,701EY,701EU
	36	GE33501-001A	FINDER ASSY		705U,705UN,705UT,705UH
	36	GE33501-003A	FINDER ASSY		707EE
	37	GE33437-001A	VOL KNOB ASSY		701E,701EX,701EY,701EU
	37	GE33437-002A	VOL KNOB ASSY		705U,705UN,705UT,705UH
	37	GE33437-003A	VOL KNOB ASSY		707EE
	38	GE40127-005A	KNOB SPRING		
	39	GE40458-002A	PUSH BTN ASSY		701E,701EX,701EY,701EU
	39	GE40458-001A	PUSH BTN ASSY		705U,705UN,705UT,705UH
	39	GE40458-005A	PUSH BTN ASSY		707EE
	40	GE33476-001A	SEARCH BTN		
	41	GE33478-002A	SRC BTN		
	42	GE33480-001A	POWER BTN		
	43	GE33481-001A	DISP BTN		701E,701EX,701EY,701EU,707EE
	43	GE33481-002A	DISP BTN		705U,705UN,705UT,705UH
	44	GE33479-001A	OPEN BTN		
	45	GE33474-001A	UP BTN		
	46	GE33475-001A	DOWN BTN		
	47	GE33490-001A	LIGHT GUIDE		
	48	GE40463-001A	JVC BADGE		
	49	GE40202-016A	COMP.SPRING		
	50	GE10256-001A	REAR COVER		
	51	VKZ4777-011	SCREW		
	52	VKZ4777-010	MINI SCREW	(x4)	
	53	GE40431-003A	REMOTE SHEET		
	54	GE33483-001A	LENS CASE		
	55	GE33482-001A	LCD LENS		
	56	GE40453-001A	LIGHTING SHEET		
	57	GE33484-001A	LCD CASE		
	58	GE33596-001A	NAME PLATE		701E,701EX,701EY,701EU
	58	GE33593-001A	NAME PLATE		705U,705UN,705UT,705UH
	58	GE33599-001A	NAME PLATE		707EE
	59	QLD0577-001	LCD MODULE		
	60	QNZ1015-001	RUBBER CONNECTO		
	61	QNZ1016-001	RUBBER CONNECTO		

⚠	Symbol No.	Part No.	Part Name	Description	Local
⚠	62	QMFZ064-150-J1	FUSE	15A	
	63	GE31574-0B3A	UT LABEL		705UT
	64	GE40354-001A	IC BRACKET		
	65	GE40396-002A	REG BRACKET		
	66	GE40416-001A	USB HOLDER		
	67	GE40218-0A2A	SHEET		
	68	QYSDST2604ZA	TAP SCREW	M2.6 x 4mm	707EE

CD mechanism assembly and parts list

Block No. M B M M



The parts without symbol number are not service.

CD mechanism

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

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LV11598-001A	MECHA FRAME		
	2	LV36800-002A	LINK ARM		
	3	LV22300-001A	SLIDE CAM(L)		
	4	LV22298-002A	SLIDE CAM(R)		
	5	LV36802-001A	LOAD RACK		
	6	LV44552-001A	RETURN SPRING		
	7	LV36803-002A	F LOCK LEVER		
	8	LV36804-002A	CAM COVER		
	9	VKZ4539-054	MINI SCREW		
	10	LV11260-002A	TOP COVER		
	11	QAR0373-002	MOTOR		
	12	QYSPSPT2025MA	SCREW	M2 x 2.5mm(x2)	
	13	LV36903-002A	L.M.BASE ASSY		
	14	VKZ4539-054	MINI SCREW	(x2)	
	15	LV36806-001A	L.WORM GEAR		
	16	LV36805-001A	M WHEEL GEAR		
	17	LV36807-001A	A WHEEL GEAR		
	18	LV36808-001A	R.ACT GEAR(1)		
	19	LV36809-001A	LOAD ACT GEAR		
	20	LV36810-001A	LOADING GEAR		
	21	QYWDL1230250	SLIT WASHER	3mm/1.2mm x 0.25mm	
	22	LV44589-002A	COMPRESSION SPRING		
	23	LV44658-001A	LINK SPRING		
	24	CM-FLMCD1D	SPINDLE MOTOR ASSY		
	28	QAL0993-001	PICK UP		
	29	LV44555-001A	MAIN SHAFT		
	30	LV36799-001A	RACK PLATE		
	31	LV45227-001A	RACK SPRING		
	32	QYSPSGT1745ZA	TAP SCREW	M1.7 x 4.5mm	
	33	LV36813-001A	SUB GUIDE CAP		
	34	QAR0144-003	MOTOR	2.0V DC	
	35	QYSPSPT2025MA	SCREW	M2 x 2.5mm(x2)	
	36	LV22296-001A	F.MOTOR HOLDER		
	37	VKZ4539-054	MINI SCREW	(x2)	
	38	LV36814-001A	F.WORM GEAR		
	39	LV36815-001A	F.WHEEL GEAR		
	40	LV36816-001A	TRIGGER ARM		
	41	LV44589-002A	COMPRESSION SPRING		
	42	LV37326-002A	CLAMPER ASSY		
	43	LV44557-002A	CLAMPER SPRING		
	44	LV44558-001A	SUS SPRING	(x4)	
	45	LV36820-001A	WIRE HOLDER		
	46	LV36904-001A	DAMPER	(x2)	
	47	LV37061-001A	DAMPER		
	48	VKZ4539-054	MINI SCREW	(x6)	
	49	LV11264-003A	DISC PLATE		
	50	LV44586-001A	SPECIAL SCREW		
	51	LV36801-002A	GEAR HOLDER		
	52	VKZ4539-054	MINI SCREW		
	53	LV36821-001A	R.ACT GEAR(2)		
	54	LV36822-001A	R.ACT GEAR(3)		
	55	LV36823-001A	ROLLER GEAR		
	56	LV44559-002A	ROLLER SHAFT		
	57	LV22325-002A	R H ASSY		
	58	LV44560-001A	ROLLER	(x2)	
	59	LV44590-001A	WASHER	(x2)	
	60	LV44561-001A	ROLLER COLLAR		
	61	LV44562-002A	ROLLER SPRING	(x2)	
	62	QAL0817-003	FPC		
	63	VKZ4539-054	MINI SCREW	(x3)	
	64	WJS0085-001A-E	E-FL/RB WIRE		
	65	LV34916-001A	WIRE CLAMP		

Electrical parts list

Main board

Block No. [0][1]

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ IC1	TEF6606T/V3-X	IC1		
⚠ IC71	LC72725KM-X	IC		701E,701EX,701EY,701EU,707EE
IC161	TDA7718-X	IC		
⚠ IC301	TDA7851A	IC		
⚠ IC701	MN101EF16ZXW1E	IC		701E,701EX,701EY,701EU,707EE
⚠ IC701	MN101EF16ZXW1D	IC		705U,705UN,705UT,705UH
IC702	S-80824CNNB-G-W	IC		
IC702 or	IC-PST3424U-X	IC		
IC771	S-24CS16A0I-G-X	IC		701E,701EX,701EY,701EU,707EE
IC771	S-24CS04AFJ-G-X	IC		705U,705UN,705UT,705UH
IC801	74AHCT126PW-X	IC		701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
⚠ IC901	AN34002A	REGULATOR IC		
⚠ IC931	BD9007HFP-W	IC		
IC932	TPS2051BD-X	IC		
Q321	IMX9-W	PAIR TRANSISTOR		
Q331	IMX9-W	PAIR TRANSISTOR		
Q781	RT1P141C-X	DIGI TRANSISTOR		
Q781 or	UN2111-X	TRANSISTOR		
Q782	2SC1623A/5-6/-X	TRANSISTOR		
Q782 or	2SC3928A/QR/-X	TRANSISTOR		
Q784	RT1P141C-X	DIGI TRANSISTOR		
Q784 or	UN2111-X	TRANSISTOR		
Q881	RT1N141C-X	DIGI TRANSISTOR		
Q881 or	UN2211-X	TRANSISTOR		
Q891	RT1N141C-X	DIGI TRANSISTOR		701E,701EX,701EY,701EU,707EE
Q891 or	UN2211-X	TRANSISTOR		701E,701EX,701EY,701EU,707EE
Q976	RT1N141C-X	DIGI TRANSISTOR		
Q976 or	UN2211-X	TRANSISTOR		
Q977	2SA812A/5-6/-X	TRANSISTOR		
Q977 or	ISA1530AC1/R/-X	TRANSISTOR		
Q978	2SC1623A/5-6/-X	TRANSISTOR		
Q978 or	2SC3928A/QR/-X	TRANSISTOR		
D321	MC2836-X	DIODE		
D321 or	MA152WA-X	DIODE		
D331	MC2836-X	DIODE		
D331 or	MA152WA-X	DIODE		
D711	UDZW6.2B-X	Z DIODE		701E,701EX,701EY,701EU
D711 or	MA8062/M/-X	Z DIODE		701E,701EX,701EY,701EU
D712	1SS355W-X	DIODE		
D712 or	MA111-X	SI DIODE		
D715	UDZW6.2B-X	Z DIODE		
D715 or	MA8062/M/-X	Z DIODE		
D716	UDZW6.2B-X	Z DIODE		
D716 or	MA8062/M/-X	Z DIODE		
D717	UDZW6.2B-X	Z DIODE		
D717 or	MA8062/M/-X	Z DIODE		
D718	UDZW6.2B-X	Z DIODE		
D718 or	MA8062/M/-X	Z DIODE		
D719	UDZW5.1B-X	SB DIODE		
D719 or	MA8051/M/-X	Z DIODE		
D720	UDZW5.1B-X	SB DIODE		
D720 or	MA8051/M/-X	Z DIODE		
D781	1SS355W-X	DIODE		
D781 or	MA111-X	SI DIODE		
D782	1SS355W-X	DIODE		
D782 or	MA111-X	SI DIODE		
D784	UDZW11B-X	Z DIODE		
D784 or	MA8110/M/-X	Z DIODE		
D785	1SS355W-X	DIODE		
D785 or	MA111-X	SI DIODE		
D851	MA22F20-X	SB DIODE		705U,705UN,705UT,705UH
D852	MA22D23-X	SB DIODE		705U,705UN,705UT,705UH
D852 or	RB160M-30-X	SB DIODE		705U,705UN,705UT,705UH
D852 or	CRS03-W	SB DIODE		705U,705UN,705UT,705UH
D891	MC2836-X	DIODE		701E,701EX,701EY,701EU,707EE
D891 or	MA152WA-X	DIODE		701E,701EX,701EY,701EU,707EE
⚠ D901	1N5401-F64	SI DIODE		
⚠ D901 or	1N5401-TU-15	SI DIODE		
D902	GS1J-LTP-X	DIODE		701E,701EX,701EY,701EU
D931	RSX201L-30-X	SB DIODE		
D971	MA22F20-X	SB DIODE		
D972	MA22D23-X	SB DIODE		
D972 or	RB160M-30-X	SB DIODE		
D972 or	CRS03-W	SB DIODE		
C1	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C2	NDC31HJ-5R6X	C CAPACITOR	5.6pF 50V J	
C3	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C4	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	
C5	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C6	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C10	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C11	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C12	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C13	NCB21AK-105X	C CAPACITOR	1uF 10V K	
C14	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	
C15	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C16	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C17	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C18	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C19	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C22	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C23	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C24	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C25	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C26	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C27	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C71	NDC31HJ-561X	C CAPACITOR	560pF 50V J	701E,701EX,701EY,701EU,707EE
C72	NDC31HJ-331X	C CAPACITOR	330pF 50V J	701E,701EX,701EY,701EU,707EE
C73	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	701E,701EX,701EY,701EU,707EE
C74	NDC31HJ-330X	C CAPACITOR	33pF 50V J	701E,701EX,701EY,701EU,707EE
C75	NDC31HJ-330X	C CAPACITOR	33pF 50V J	701E,701EX,701EY,701EU,707EE
C76	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	701E,701EX,701EY,701EU,707EE
C77	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	701E,701EX,701EY,701EU,707EE

⚠ Symbol No.	Part No.	Part Name	Description	Local
C78	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	701E,701EX,701EY,701EU,707EE
C161	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C162	QTE1H57-105Z	E CAPACITOR	1uF 50V	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
C164	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C165	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C171	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C172	QTE1H57-105Z	E CAPACITOR	1uF 50V	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
C174	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C177	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C178	QTE1C57-106Z	E CAPACITOR	10uF 16V	
C183	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C184	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C301	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C302	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C311	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C312	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C315	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C316	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C317	QTE1C57-476Z	E CAPACITOR	47uF 16V	
C318	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M	
C319	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C320	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C326	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C327	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C330	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C331	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C365	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C366	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C385	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C386	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C583	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C584	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C585	QTE1H65-225Z	E CAPACITOR	2.2uF 50V	
C586	QTE1H65-225Z	E CAPACITOR	2.2uF 50V	
C587	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C588	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C703	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C704	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C706	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C707	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C708	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C709	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C710	NDC31HJ-101X	C CAPACITOR	100pF 50V J	701E,701EX,701EY,701EU
C711	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C713	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C714	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C715	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C716	NCJ11EK-106X-A	C CAPACITOR	10uF 25V K	
C717	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C718	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C719	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C720	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C721	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C722	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C729	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C730	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C731	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C732	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C733	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C771	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C781	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C784	QERF1CM-107Z	E CAPACITOR	100uF 16V M	
C801	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
C851	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	705U,705UN,705UT,705UH
C852	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	705U,705UN,705UT,705UH
C881	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C891	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	701E,701EX,701EY,701EU,707EE
C901	QEZ0870-278	E CAPACITOR	2700uF	
C902	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C903	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C905	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C906	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C907	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C908	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C909	QERF0JM-337Z	E CAPACITOR	330uF 6.3V M	
C910	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	
C912	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C914	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
C916	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C917	QERF0JM-337Z	E CAPACITOR	330uF 6.3V M	
C928	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C931	QEZ0595-477Z	E CAPACITOR	470uF 25V M	
C932	QBZ0006-337Z	TA E CAPACITOR	330uF	
C933	NCB10JK-106X-A	C CAPACITOR	10uF 6.3V K	
C934	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C935	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C936	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C937	NCB21CK-474X	C CAPACITOR	0.47uF 16V K	
C938	NCJ21EK-225X-D	C CAPACITOR	2.2uF 25V K	
C971	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C990	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
R2	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R3	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R4	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R5	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R6	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R7	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R11	NRS181J-4R7X	MG RESISTOR	4.7Ω 1/8W J	
R12	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	701E,701EX,701EY,701EU,707EE
R14	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R15	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R71	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	701E,701EX,701EY,701EU,707EE
R72	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	701E,701EX,701EY,701EU,707EE
R73	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	701E,701EX,701EY,701EU,707EE
R74	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	701E,701EX,701EY,701EU,707EE
R81	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R82	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R91	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R92	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R161	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R162	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R171	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R172	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R301	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R302	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R305	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R307	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R309	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R310	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R311	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R312	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R321	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R322	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R323	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R324	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R331	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R332	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R333	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R334	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R341	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R342	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R343	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R344	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R351	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R352	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R353	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R354	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R583	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R584	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R585	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R586	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R587	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R588	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R701	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R702	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R703	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R704	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R705	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R706	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R708	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	705U,705UN,705UT,705UH,707EE
R709	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	701E,701EX,701EY,701EU
R712	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R714	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R717	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R718	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R719	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R720	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R721	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R722	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R723	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R724	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R725	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R726	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R727	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R728	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R729	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R730	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R731	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R732	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R733	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R734	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R735	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R736	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R737	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R738	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R739	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R740	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R742	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R743	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	701E,701EX,701EY,701EU,707EE
R744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R745	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	701E,701EX,701EY,701EU,707EE
R746	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R748	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R749	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R750	NRS181J-224X	MG RESISTOR	220kΩ 1/8W J	
R751	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R752	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R753	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R754	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R755	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R756	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R757	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R758	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R760	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R761	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R762	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R763	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R764	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	701E,701EX,701EY,701EU,707EE
R765	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R767	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R769	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	
R770	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	701E,701EX,701EY,701EU
R771	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R772	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	
R773	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	701E,701EX,701EY,701EU
R774	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R775	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R776	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R777	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R778	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R779	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R781	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R782	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R783	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R801	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R802	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R803	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R804	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R805	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R806	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R807	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R808	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R809	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R810	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R811	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R812	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R813	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH

⚠ Symbol No.	Part No.	Part Name	Description	Local
R814	NRS181J-101X	MG RESISTOR	100Ω 1/8W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R819	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
R851	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	705U,705UN,705UT,705UH
R881	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R882	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R891	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	701E,701EX,701EY,701EU,707EE
R892	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	701E,701EX,701EY,701EU,707EE
R901	QRE142J-102X	C RESISTOR	1kΩ 1/4W J	
R902	NRSA02J-912X	MG RESISTOR	9.1kΩ 1/10W J	
R903	NRSA02J-472X	MG RESISTOR	4.7kΩ 1/10W J	
R904	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
R928	NRSA63J-753X	MG RESISTOR	75kΩ 1/16W J	
R929	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R930	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R937	NRS181J-221X	MG RESISTOR	220Ω 1/8W J	
R939	NRSA63D-153X	MG RESISTOR	15kΩ 1/16W D	
R940	NRSA63D-823X	MG RESISTOR	82kΩ 1/16W D	
R971	NRS181J-332X	MG RESISTOR	3.3kΩ 1/8W J	
R976	NRSA02J-273X	MG RESISTOR	27kΩ 1/10W J	
R977	NRSA02J-123X	MG RESISTOR	12kΩ 1/10W J	
L1	NQL093K-R47X	COIL	0.47uH K	
L3	QQL213M-R22Z	COIL	0.22uH M	
L4	QQR1813-001	COIL		
L5	QQL244J-561Z	COIL	560uH J	
L6	QQL244J-561Z	COIL	560uH J	
L7	QQL244J-4R7Z	P COIL	4.7uH J	
L8	QQL244J-4R7Z	P COIL	4.7uH J	
L701	QQL244J-4R7Z	P COIL	4.7uH J	
L702	QQL244J-4R7Z	P COIL	4.7uH J	
L901	QQR1809-001	CHOKE COIL		
L931	QQL92AK-330Z	COIL	33uH K	
L932	NQLH25M-4R7X	COIL	4.7uH M	
CN501	QGB2027ME-28	CONNECTOR	B-B (1-28)	
CN701	QGB1004K1-28	CONNECTOR	B-B (1-28)	
CN703	QNS0283-001	STEERING REMOTE		701E,701EX,701EY,701EU
CN901	QNZ0607-001	CAR CONNECTOR		
J1	QNB0190-001	ANT TERMINAL		
J321	QNN0815-001	PIN JACK		
J801	QNZ0095-001	CONNECTOR		701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
S701	QSW0648-001Z	TACT SWITCH		
S702	QSW0451-001	PUSH SWITCH		
S703	QSW0451-001	PUSH SWITCH		
X1	QAX0928-001Z	CRYSTAL		
X71	QAX0926-001Z	CRYSTAL		701E,701EX,701EY,701EU,707EE
X701	QAX0667-001Z	C RESONATOR	8.000MHz	
X702	QAX0401-001	CRYSTAL	32.768KHz	

Switch board

Block No. [0][2]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC601	PTC6526LQ-L	IC		
IC602	NJL29H380A	REMOCON RCV		
IC603	NCP5623DTBR2G-X	IC		
Q601	2SA2174G-X	TRANSISTOR		
Q601 or	2SA1774/QR/-X	TRANSISTOR		
Q602	2SA2174G-X	TRANSISTOR		
Q602 or	2SA1774/QR/-X	TRANSISTOR		
Q603	2SA2174G-X	TRANSISTOR		
Q603 or	2SA1774/QR/-X	TRANSISTOR		
Q604	UN2222-X	IC		
Q604 or	DTD143EK-X	TRANSISTOR		
Q605	UN2222-X	IC		
Q605 or	DTD143EK-X	TRANSISTOR		
Q606	UN2222-X	IC		
Q606 or	DTD143EK-X	TRANSISTOR		
Q607	UNR9211G-X	TRANSISTOR		
Q607 or	DTC114EEB-X	TRANSISTOR		
Q608	2SC1623A/5-6/-X	TRANSISTOR		
Q608 or	2SC3928A/QR/-X	TRANSISTOR		
D600	LHQ974/LM/-X	LED		
D601	LHQ974/LM/-X	LED		
D602	LHQ974/LM/-X	LED		
D603	LHQ974/LM/-X	LED		
D604	NSSM065T-X	LED		
D605	NSSM065T-X	LED		
D606	NSSM065T-X	LED		
D608	NSSM065T-X	LED		
D642	MA111-X	SI DIODE		
D642 or	1SS355W-X	DIODE		
D645 or	UDZW5.6B-X	Z DIODE		
D645	MA8056/M/-X	Z DIODE		
D691 or	UDZW5.1B-X	SB DIODE		
D691	MA8051/M/-X	Z DIODE		
D692 or	UDZW5.1B-X	SB DIODE		
D692	MA8051/M/-X	Z DIODE		
C600	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C601	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C602	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C603	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C604	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C605	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C606	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C608	NBE21CM-106X	TA E CAPACITOR	10uF 16V M	
C609	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C611	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C623	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C692	NCJ11EK-106X-R	C CAPACITOR	10uF 25V	
R601	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R602	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R603	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R604	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R605	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R606	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R607	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R608	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R609	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R610	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R624	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R625	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R630	NRSA02J-271X	MG RESISTOR	270Ω 1/10W J	
R631	NRSA02J-331X	MG RESISTOR	330Ω 1/10W J	
R634	NRSA02J-681X	MG RESISTOR	680Ω 1/10W J	
R635	NRSA02J-331X	MG RESISTOR	330Ω 1/10W J	
R636	NRSA02J-331X	MG RESISTOR	330Ω 1/10W J	
R637	NRSA02J-621X	MG RESISTOR	620Ω 1/10W J	
R638	NRS181J-561X	MG RESISTOR	560Ω 1/8W J	
R639	NRS181J-561X	MG RESISTOR	560Ω 1/8W J	
R640	NRS181J-821X	MG RESISTOR	820Ω 1/8W J	
R641	NRS181J-471X	MG RESISTOR	470Ω 1/8W J	
R642	NRS181J-471X	MG RESISTOR	470Ω 1/8W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R643	NRS181J-751X	MG RESISTOR	750Ω 1/8W J	
R648	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
R649	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R654	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R655	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R656	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R658	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J	
R659	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R663	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R665	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R666	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R667	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R668	NRSA63F-154X	MG RESISTOR	150kΩ 1/16W F	
R669	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R671	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R672	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R673	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R691	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R692	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R694	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J	
L686	NQR0007-002X	FERRITE BEADS		
L687	NQR0007-002X	FERRITE BEADS		
L688	NQR0007-002X	FERRITE BEADS		
L691	NQR0536-001X	CHOKE COIL		
CN601	QGZ1201M1-25W	CONNECTOR	(1-25)	
EN601	QSW1231-002	ROTARY ENCODER		
J601	QNS0280-001	3.5 JACK		
J602	QNZ1007-001	USB JACK		
S601	NSW0316-001X	TACT SWITCH		
S602	NSW0316-001X	TACT SWITCH		
S603	NSW0316-001X	TACT SWITCH		
S604	NSW0316-001X	TACT SWITCH		
S605	NSW0316-001X	TACT SWITCH		
S606	NSW0316-001X	TACT SWITCH		
S607	NSW0316-001X	TACT SWITCH		
S608	NSW0316-001X	TACT SWITCH		
S609	NSW0316-001X	TACT SWITCH		
S610	NSW0316-001X	TACT SWITCH		
S611	NSW0316-001X	TACT SWITCH		

Function board

Block No. [0][3]

⚠ Symbol No.	Part No.	Part Name	Description	Local
D2441	LHQ974/LM/-X	LED		
D2442	LHQ974/LM/-X	LED		
D2443	LHQ974/LM/-X	LED		
R2442	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R2443	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
CN741	QGB1004J2-28X	CONNECTOR	B-B (1-28)	
CN742	QGZ1201L1-25	CONNECTOR	(1-25)	
S2441	NSW0316-001X	TACT SWITCH		

Mecha control board

Block No. [0][4]

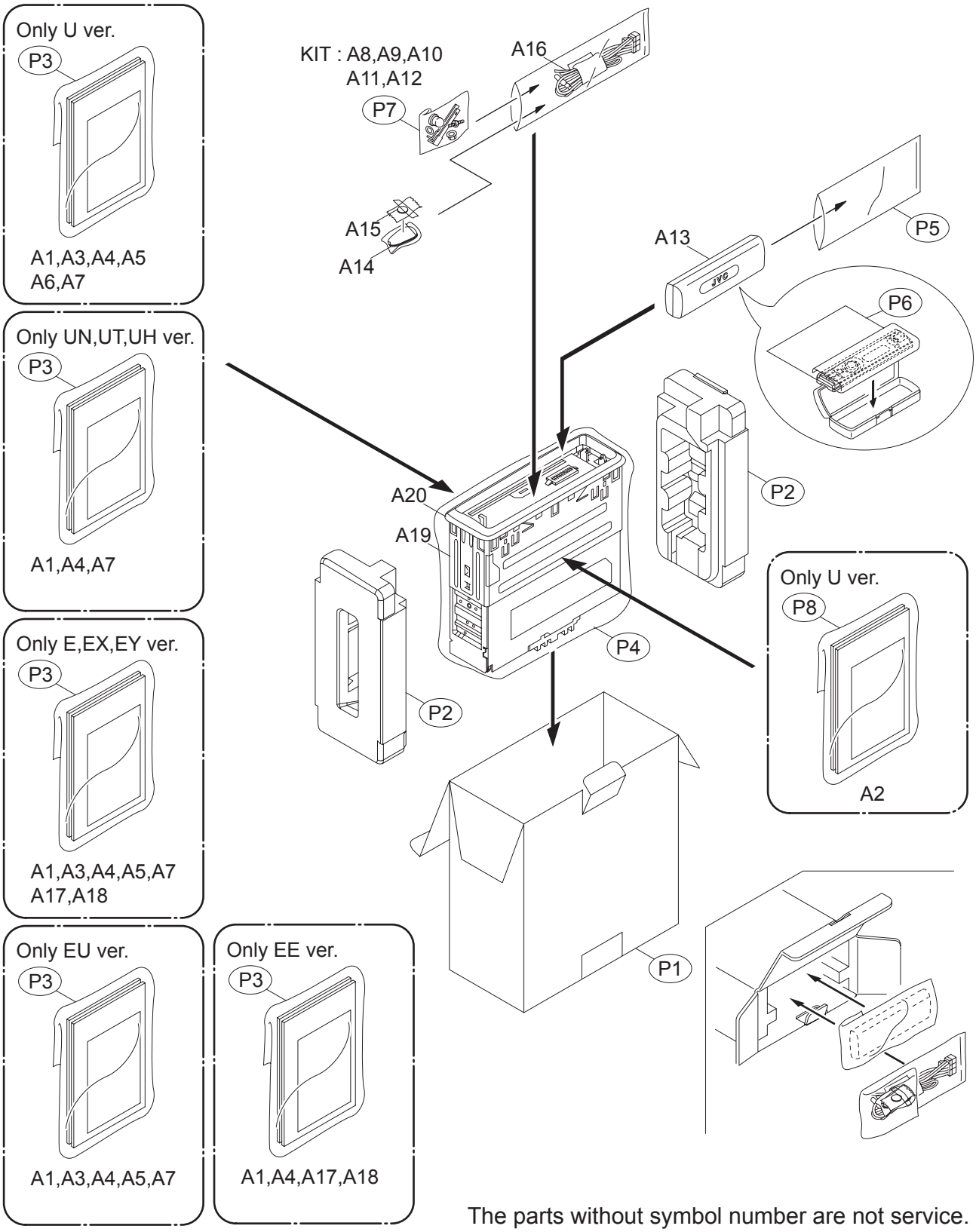
⚠ Symbol No.	Part No.	Part Name	Description	Local
IC301	MN6627946JC	IC(MCU)		
IC302	BR24L16F-W-X	IC(DIGITAL)		
IC303	MFI341S2162-X	IC		
IC501	LA6565-X	IC		
Q101	2SC3928A/R/-X	TRANSISTOR		
Q201	2SC3928A/R/-X	TRANSISTOR		
Q211	PS1191RB22/BC/X	PHOTO TRANSISTOR		
Q212	PS1191RB22/BC/X	PHOTO TRANSISTOR		
Q301	ISA1530AC1/RS/X	TRANSISTOR		
Q302	RT1N441C-X	TRANSISTOR		
Q303	RT1N441C-X	TRANSISTOR		
Q501	2SB1424/R/-W	TRANSISTOR		
D101	AN1105W21/AB/-X	IR LED		
D201	AN1105W21/AB/-X	IR LED		
D501	1SR154-400-X	SI DIODE		
D502	1SR154-400-X	SI DIODE		
D503	1SR154-400-X	SI DIODE		
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	
C201	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C301	NEAF0JM-226X	E CAPACITOR	22uF 6.3V M	
C302	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C303	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C304	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C305	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C306	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C307	NCB31CK-334X	C CAPACITOR	0.33uF 16V K	
C308	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C309	NCB31EK-823X	C CAPACITOR	0.082uF 25V K	
C310	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C311	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C312	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C313	NCJ21CK-475X-R	C CAPACITOR	4.7uF 16V K	
C314	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C315	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C316	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C317	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C319	NCB31CK-334X	C CAPACITOR	0.33uF 16V K	
C321	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C322	NCB31CK-154X	C CAPACITOR	0.15uF 16V K	
C323	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C324	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C325	NCJ20JK-106X-R	C CAPACITOR	10uF 6.3V K	
C326	NCJ20JK-106X-R	C CAPACITOR	10uF 6.3V K	
C327	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C328	NCB31HK-681X	C CAPACITOR	680pF 50V K	
C329	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C330	NCJ20JK-106X-R	C CAPACITOR	10uF 6.3V K	
C331	NCJ20JK-106X-R	C CAPACITOR	10uF 6.3V K	
C332	NCJ20JK-106X-R	C CAPACITOR	10uF 6.3V K	
C334	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	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C338	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C339	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C340	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C341	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C342	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C343	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C344	NCJ20JK-106X-R	C CAPACITOR	10uF 6.3V K	
C345	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C346	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C347	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C351	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C352	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C373	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	
C395	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C501	NEHN1EM-476X	E CAPACITOR	47uF 25V M	
C502	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C503	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C511	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C512	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C513	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C514	NCB31HK-122X	C CAPACITOR	1200pF 50V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C531	NEHL0JM-107X	E CAPACITOR	100uF 6.3V M	
C532	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C551	NEHN1AM-107X	E CAPACITOR	100uF 10V M	
R101	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R102	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R103	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R104	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R105	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R201	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	
R203	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R204	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R205	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R206	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R207	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R214	NRSA63D-153X	MG RESISTOR	15kΩ 1/16W D	
R215	NRSA63D-153X	MG RESISTOR	15kΩ 1/16W D	
R216	NRS181F-300X	MG RESISTOR	30Ω 1/8W F	
R217	NRS181F-300X	MG RESISTOR	30Ω 1/8W F	
R228	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R229	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R230	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R241	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R242	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R301	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R302	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R304	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R307	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R308	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R309	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R310	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R311	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R312	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R313	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R314	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R315	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R316	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R317	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R318	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R319	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R320	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R321	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R322	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R323	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R324	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R325	NRSA02F-100X	MG RESISTOR	10Ω 1/10W F	
R326	NRSA02F-100X	MG RESISTOR	10Ω 1/10W F	
R327	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R328	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R329	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R330	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R331	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R332	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R333	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R334	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R336	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R337	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R342	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R343	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R345	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R349	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R361	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R362	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R371	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R501	NRS125J-100X	MG RESISTOR	10Ω 1/2W J	
R503	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R504	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
R505	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R506	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R507	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R508	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R509	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R510	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R511	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R512	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R513	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R514	NRSA63J-133X	MG RESISTOR	13kΩ 1/16W J	
R515	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R516	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R519	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R520	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R521	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R522	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R523	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R524	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R525	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
CN101	QGB2027L5-28X	CONNECTOR	B-B (1-28)	
CN102	QGF0522F3-15W	CONNECTOR	FFC/FPC (1-15)	
K101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K102	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
SW1	NSW0291-001X	DETECT SWITCH		
X301	NAX0375-001X	CRYSTAL	16.9344MHz	
X302	NAX0367-001X	CRYSTAL		

Packing materials and accessories parts list

Block No. M 3 M M

No additional / supplemental order of WARRANTY CARDs are available.



The parts without symbol number are not service.

Packing and Accessories

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

⚠	Symbol No.	Part No.	Part Name	Description	Local
	A 1	GET0596-001A	INST BOOK	GER FRE ITA	701E
	A 1	GET0596-003A	INST BOOK	ENG FRE	701EX,701EU
	A 1	GET0596-006A	INST BOOK	ENG GER RUS GRE	701EY
	A 1	GET0595-001A	INST BOOK	ENG THA	705U,705UH
	A 1	GET0595-004A	INST BOOK	ENG INA	705UN
	A 1	GET0595-005A	INST BOOK	ENG CHI(TAIWAN)	705UT
	A 1	GET0597-001A	INST BOOK	ENG RUS UKR	707EE
	A 2	GET0595-002A	INST BOOK	ARA KOR CHI(TAIWAN) PER	705U
	A 3	GET0596-002A	INST BOOK	SPA POR	701E
	A 3	GET0596-004A	INST BOOK	DUT DAN FIN SWE	701EX
	A 3	GET0596-007A	INST BOOK	HUN CZE POL	701EY
	A 3	GET0596-005A	INST BOOK	RUS SPA PER TUR	701EU
	A 3	GET0595-003A	INST BOOK	RUS	705U
	A 4	GET0596-008A	INSTALL MANUAL	GER FRE ITA	701E
	A 4	GET0596-010A	INSTALL MANUAL	ENG FRE	701EX,701EU
	A 4	GET0596-013A	INSTALL MANUAL	ENG GER RUS GRE	701EY
	A 4	GET0595-006A	INSTALL MANUAL	ENG THA	705U,705UH
	A 4	GET0595-009A	INSTALL MANUAL	ENG INA	705UN
	A 4	GET0595-010A	INSTALL MANUAL	ENG CHI(TAIWAN)	705UT
	A 4	GET0597-002A	INSTALL MANUAL	ENG RUS UKR	707EE
	A 5	GET0596-009A	INSTALL MANUAL	SPA POR	701E
	A 5	GET0596-011A	INSTALL MANUAL	DUT DAN FIN SWE	701EX
	A 5	GET0596-014A	INSTALL MANUAL	HUN CZE POL	701EY
	A 5	GET0596-012A	INSTALL MANUAL	RUS SPA PER TUR	701EU
	A 5	GET0595-007A	INSTALL MANUAL	ARA KOR CHI(TAIWAN) PER	705U
	A 6	GET0595-008A	INSTALL MANUAL	RUS	705U
	A 7	LVT1672-002A	INST SHEET		701E,701EX,701EY,701EU,705U,705UN,705UT,705UH
	A 8	VKZ4027-202	PLUG NUT		
	A 9	GE40426-002A	MOUNT BOLT		
	A 10	VKZ4328-003	LOCK NUT		
	A 11	QYWWS53A008ZA	WASHER	0mm/5.3mm x	
	A 12	GE40130-002A	HOOK	(x2)	
	A 13	GE32320-001A	HARD CASE ASSY		
	A 14	RM-RK50C	REMOCON UNIT		
	A 15	----------	LITHIUM BATTERY		
	A 16	QAM1150-001	POWER CORD		701E,701EX,701EY,701EU,707EE
	A 16	QAM1146-001	16P CORD ASSY		705U,705UN,705UT,705UH
	A 17	----------	WARRANTY CARD	BT-54038-1	701E,701EX,701EY,707EE
	A 18	VND3046-001	SERIAL TICKET		701E,701EX,701EY,707EE
	A 19	GE20137-003A	MOUNTING SLEEVE		
	A 20	GE20218-012A	TRIM PLATE		701E,701EX,701EY,701EU,707EE
	A 20	GE20235-001A	TRIM PLATE		705U,705UN,705UT,705UH
	KIT	SRW-MA372	SCREW PARTS KIT		
	P 1	GE33597-001A	CARTON		701E,701EX,701EY,701EU
	P 1	GE33594-001A	CARTON		705U,705UN,705UT,705UH
	P 1	GE33600-001A	CARTON		707EE
	P 2	GE10260-001A	EPS CUSHION		701E,701EX,701EY,701EU,707EE
	P 2	GE10259-001A	EPS CUSHION		705U,705UN,705UT,705UH
	P 3	FSPG4002-001	POLY BAG		
	P 4	QPC03004315PB	POLY BAG	30cm x 43cm	
	P 5	QPA01003003	POLY BAG	10cm x 30cm	
	P 6	GE40467-002A	NON WOVEN SHEET		
	P 7	QPA00801205	POLY BAG	8cm x 12cm	
	P 8	FSPG4002-001	POLY BAG		705U