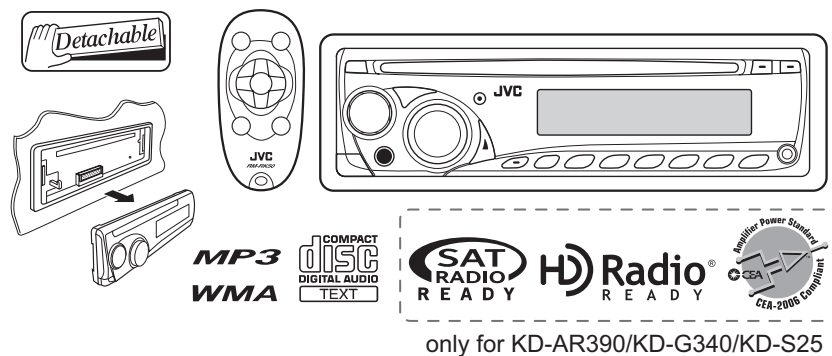


JVC

SERVICE MANUAL

CD RECEIVER

**KD-AR390J, KD-G340J,
KD-G444UI, KD-G445U,
KD-G445UN, KD-G445UT,
KD-G445UH, KD-G446U,
KD-G446UN, KD-G446UT,
KD-G446UH, KD-S25J**



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

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SPECIFICATION

KD-AR390/KD-G340/KD-S25

| AUDIO AMPLIFIER SECTION | | |
|---------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Power Output | | 20 W RMS × 4 Channels at 4 Ω and < or = 1% THD+N |
| Signal-to-Noise Ratio | | 80 dBA (reference: 1 W into 4 Ω) |
| Load Impedance | | 4 Ω (4 Ω to 8 Ω allowance) |
| Tone Control Range | Bass | ±12 dB (60 Hz, 80 Hz, 100 Hz, 120 Hz) |
| | Mid-range | ±12 dB (500 Hz, 1.0 kHz, 1.5 kHz, 2.5 kHz) |
| | Treble | ±12 dB (7.5 kHz 10.0 kHz 12.5 kHz 15.0 kHz) |
| | Q (band width) | Q0.5 to Q2.0 |
| Frequency Response | | 40 Hz to 20 000 Hz |
| Line-Out Level/Impedance | KD-AR390 | 5.0 V/20 kΩ load (full scale) |
| | KD-G340/KD-S25 | 2.5 V/20 kΩ load (full scale) |
| Subwoofer-Out Level/Impedance | KD-AR390 | 5.0 V /20 kΩ load (full scale) |
| | KD-G340/KD-S25 | 2.5 V/20 kΩ load (full scale) |
| Output Impedance | | 1 kΩ |
| Other Terminal | | AUX (auxiliary) input jack CD changer jack Steering wheel remote input (only for KD-AR390) Antenna |
| TUNER SECTION | | |
| Frequency Range | FM | with channel interval set to 100 kHz or 200 kHz : 87.5 MHz to 107.9 MHz with channel interval set to 50 kHz : 87.5 MHz to 108.0 MHz |
| | AM | with channel interval set to 10 kHz : 530 kHz to 1 710 kHz with channel interval set to 9 kHz : 531 kHz to 1 602 kHz |
| FM Tuner | Usable Sensitivity | 11.3 dBf (1.0 μV/75 Ω) |
| | 50 dB Quieting Sensitivity | 16.3 dBf (1.8 μV/75 Ω) |
| | Alternate Channel Selectivity (400 kHz) | 65 dB |
| | Frequency Response | 40 Hz to 15 000 Hz |
| | Stereo Separation | 35 dB |
| AM Tuner | Sensitivity | 20 μV |
| | Selectivity | 35 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 | 192 kbps |
| GENERAL | | |
| Power Requirement | Operating Voltage | DC 14.4 V (11 V to 16 V allowance) |
| Grounding System | | Negative ground |
| Allowable Operating Temperature | | 0°C to +40°C (32°F to 104°F) |
| Dimensions (W × H × D) (approx.) | Installation Size | 182 mm × 52 mm × 160 mm (7-3/16" × 2-1/16" × 6-5/16") |
| | Panel Size | 188 mm × 58 mm × 6 mm (7-7/16" × 2-5/16" × 1/4") |
| Mass | | 1.3 kg (2.9 lbs) (excluding accessories) |

Design and specifications are subject to change without notice.


KD-G444/KD-G445/KD-G446

| 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, 120 Hz) |
| | Mid-range | ±12 dB (500 Hz, 1 kHz, 1.5 kHz, 2.5 kHz) |
| | Treble | ±12 dB (7.5 kHz, 10 kHz, 12.5 kHz, 15 kHz) |
| | Q (Q-slope) | Q0.5 to Q2.0 |
| 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 | | 1kΩ |
| Other Terminal | | 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 | 11.3 dBf (1.0 μV/75 Ω) |
| | 50 dB Quieting Sensitivity | 16.3 dBf (1.8 μV/75 Ω) |
| | Alternate Channel Selectivity (400 kHz) | 65 dB |
| | Frequency Response | 40 Hz to 15 000 Hz |
| | Stereo Separation | 30 dB |
| AM Tuner | Sensitivity | 20 μV |
| | Selectivity | 35 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 |
| 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 | 187 mm × 58 mm × 6 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 performing 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.

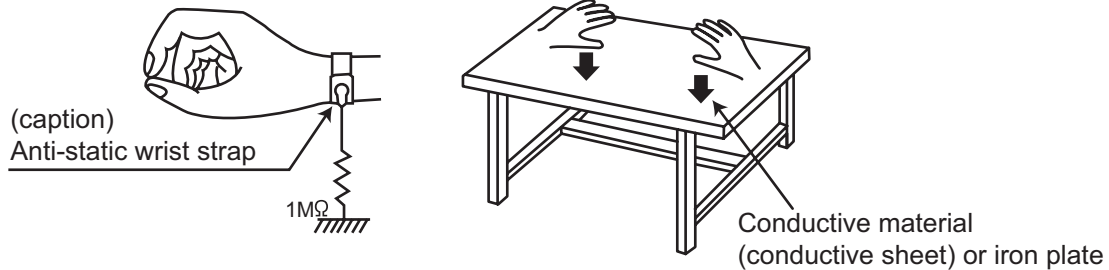
Be careful to use proper grounding in the area where repairs are being performed.

(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.

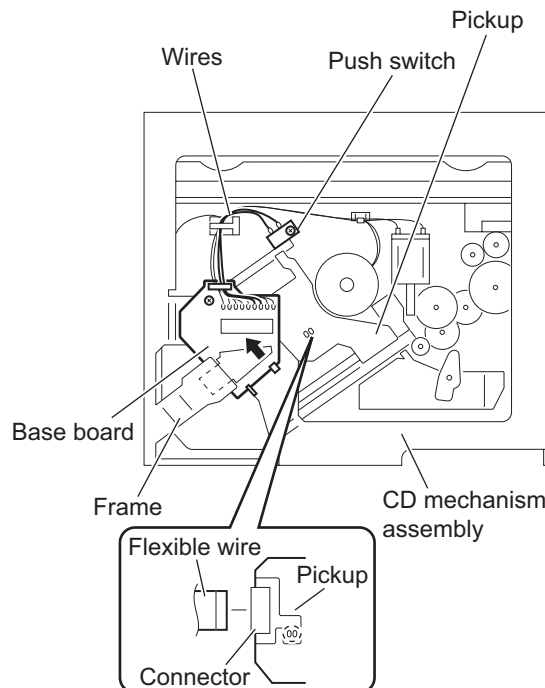
1.3 Handling the traverse unit (optical pickup)

- (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.

(For U.S.A.)

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

(Others)

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

REPRODUCTION AND POSITION OF LABELS and PRINT WARNING LABEL and PRINT



| | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAUTION VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG) | ATTENTION RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA) | AVISO RADIACIÓN LASER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP) | WARNING SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE) | 注意 ニモ見なくと可視 及び/または不可視 のクラス1M レーザー放射が 出ます。 光学機器で直接 見ないでください。 (JPN) | CAUTION VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG) LV44633-003A |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|

SECTION 2 SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3 DISASSEMBLY

3.1 Main body (used figure is KD-AR390)

3.1.1 Removing the FRONT CHASSIS assembly (See Fig.1)

- (1) Disengage the four hooks **a** engaged the both side of the FRONT CHASSIS assembly.



hook **a**

Fig.1

3.1.2 Removing the HEAT SINK (See Fig.2, 3)

- (1) Remove the three screws **A** and the two screws **B** attaching the HEAT SINK. (See Fig.2)
- (2) Remove the two screws **C** and the one screw **D** attaching the HEAT SINK. (See Fig.3)

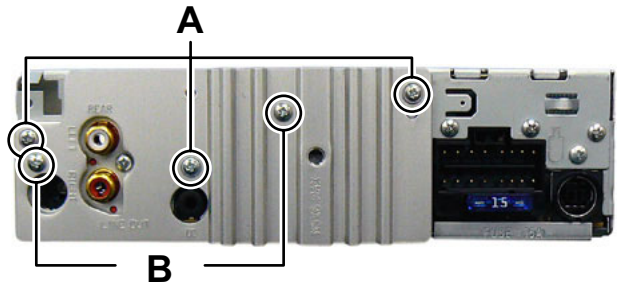


Fig.2

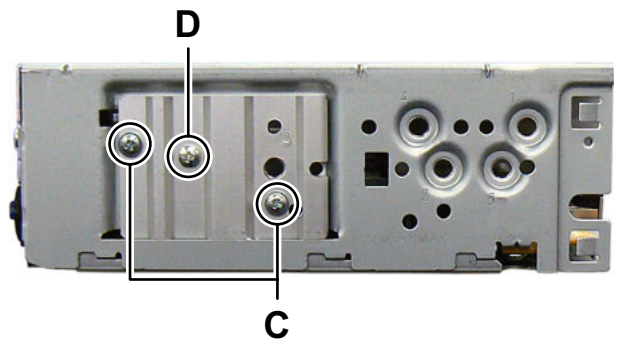


Fig.3

3.1.3 Removing the BOTTOM COVER (See Fig.4)

- (1) Remove the one screw **E** attaching the BOTTOM COVER.
- (2) Slide the BOTTOM COVER to backward.



Fig.4

3.1.4 Removing the MAIN BOARD assembly (See Fig.5,6)

- (1) Remove the two screws **F** and one screw **G** attaching the MAIN BOARD assembly. (See Fig.5)
- (2) Remove the two screws **H** attaching the MAIN BOARD assembly. (See Fig.6)
- (3) Disconnect the connector **CN501** connected to MAIN BOARD assembly and CD MECHANISM assembly. (See Fig.6)

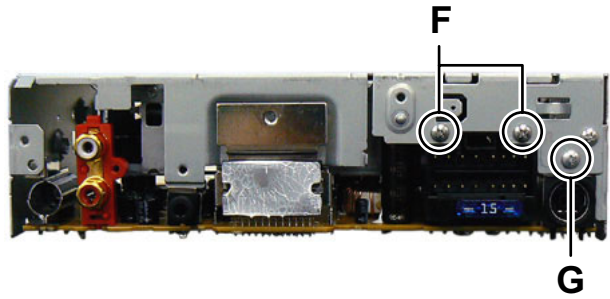


Fig.5

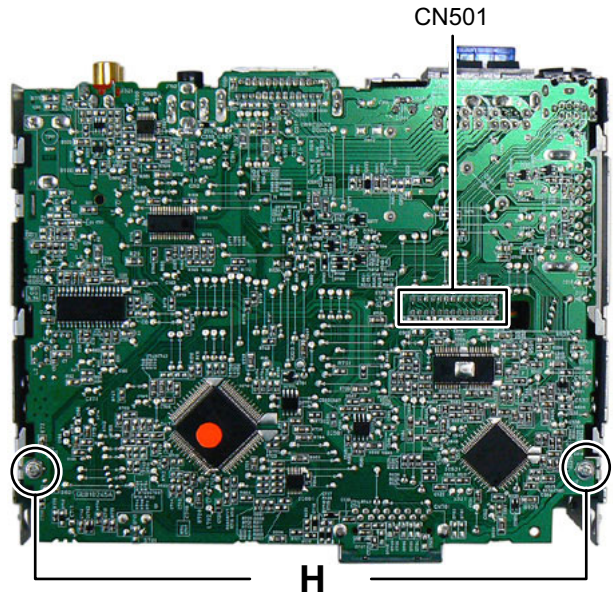


Fig.6

3.1.5 Removing the CD MECHANISM assembly (See Fig.7)

- (1) Remove the three screws **J** attaching the CD MECHANISM assembly.

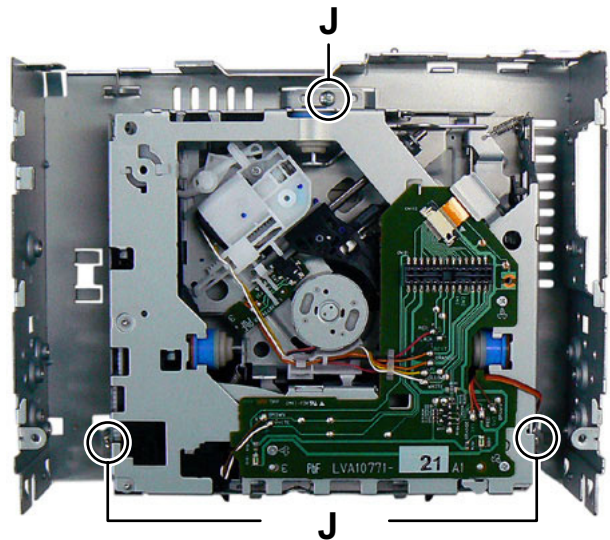


Fig.7

3.1.6 Removing the SWITCH BOARD assembly (See Fig.8)

- (1) Remove the VOLUME KNOB.
- (2) Remove the four screws **K** attaching the REAR COVER.
- (3) Disengage the nine hooks **b** engaged the REAR COVER.

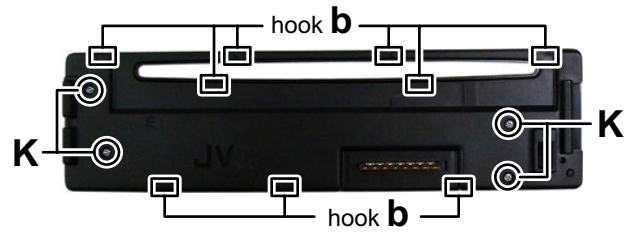


Fig.8

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** and one screw **B** 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.

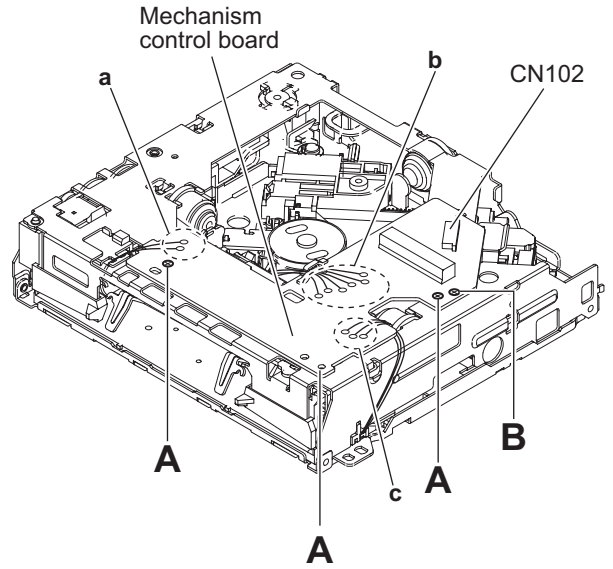


Fig.1

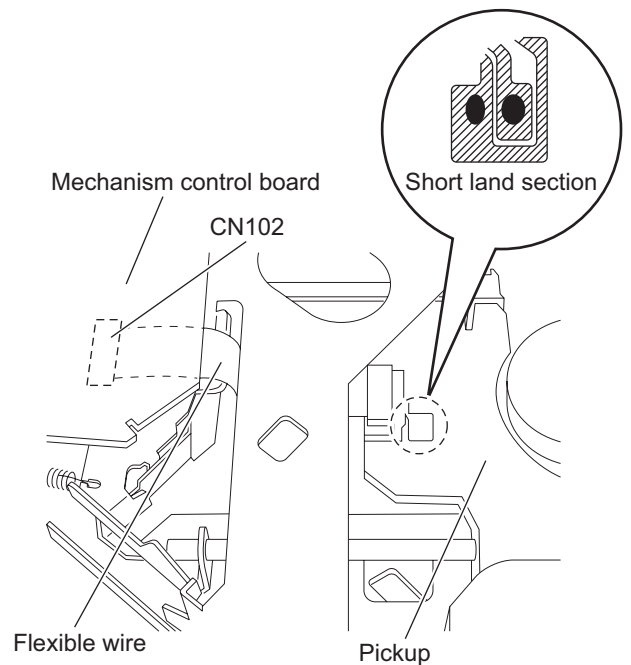


Fig.2

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 **C** attaching the top cover. (See Fig.3 and 4.)
- (3) Take out the top cover in an upward direction. (See Fig.5.)

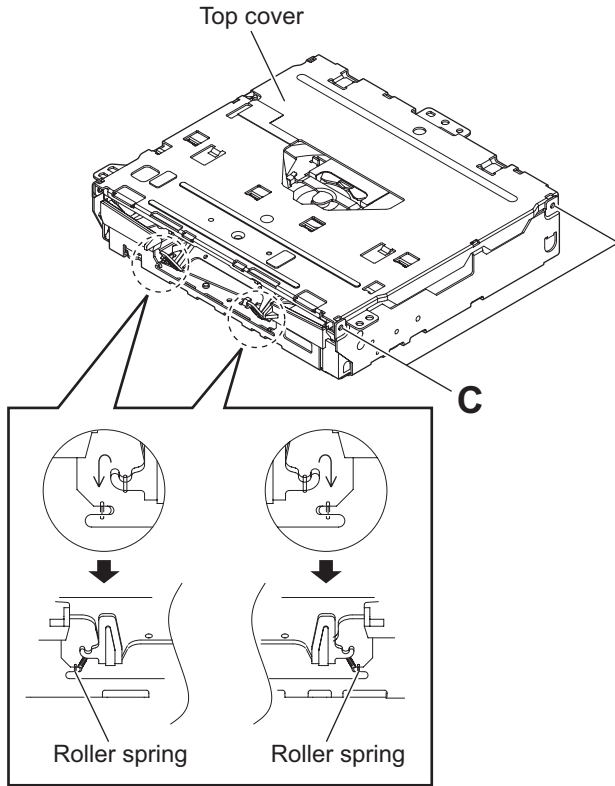


Fig.3

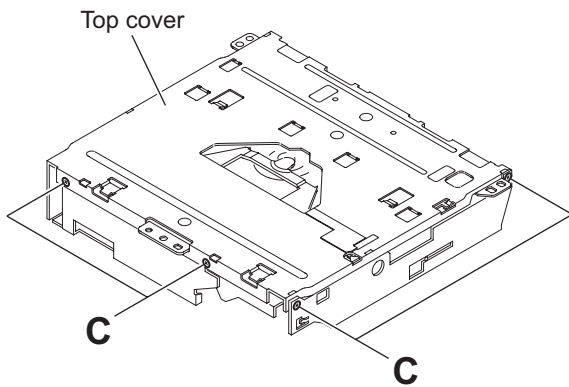


Fig.4

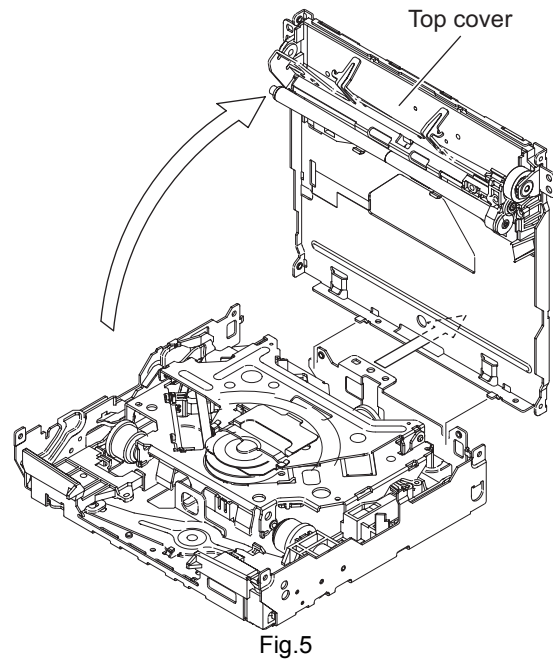


Fig.5

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 **D** 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.

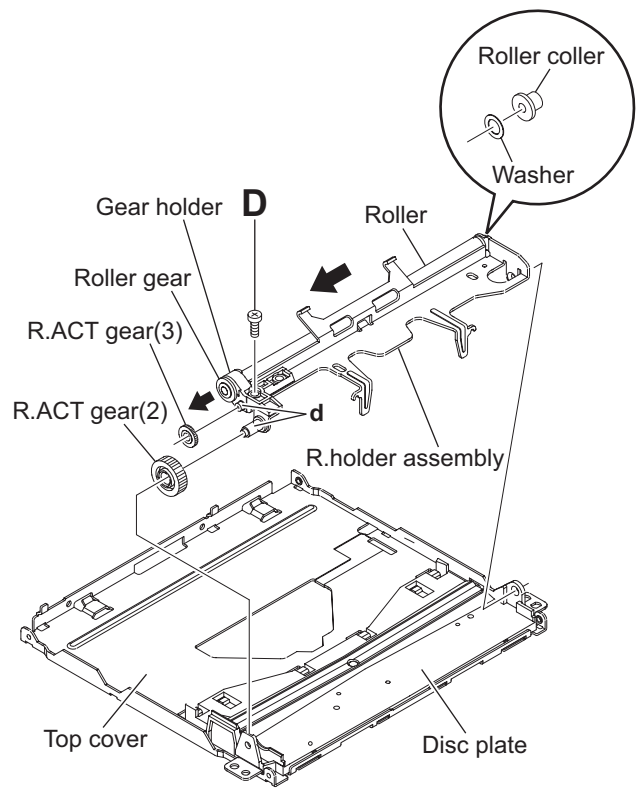


Fig.6

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 **E** attaching the PHOTO BOARD assembly. (See Fig.8.)

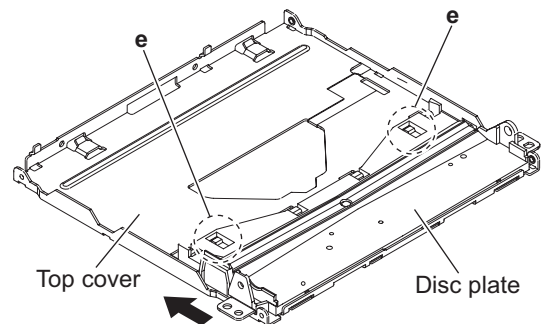


Fig.7

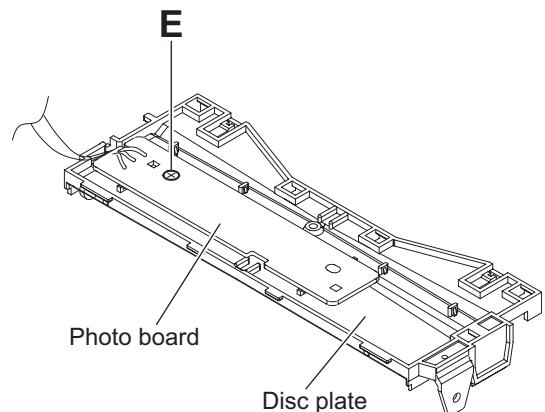


Fig.8

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 **F** 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.)

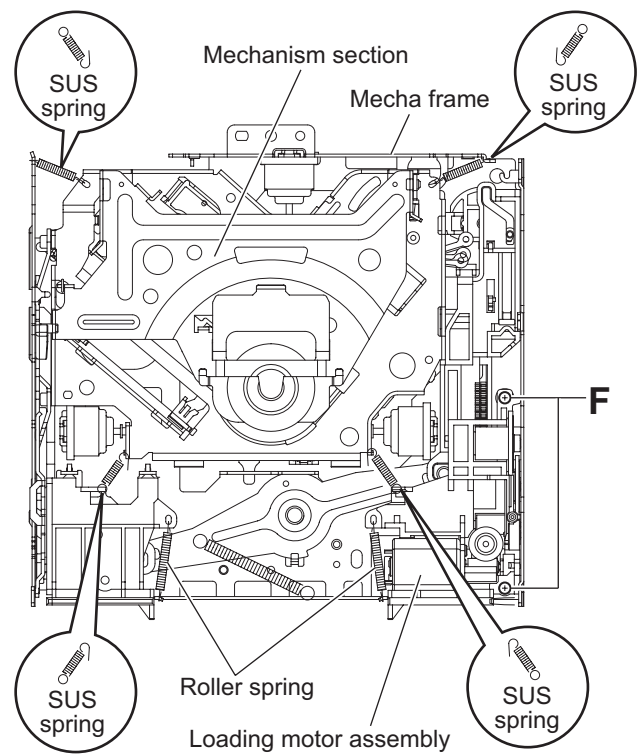


Fig.9

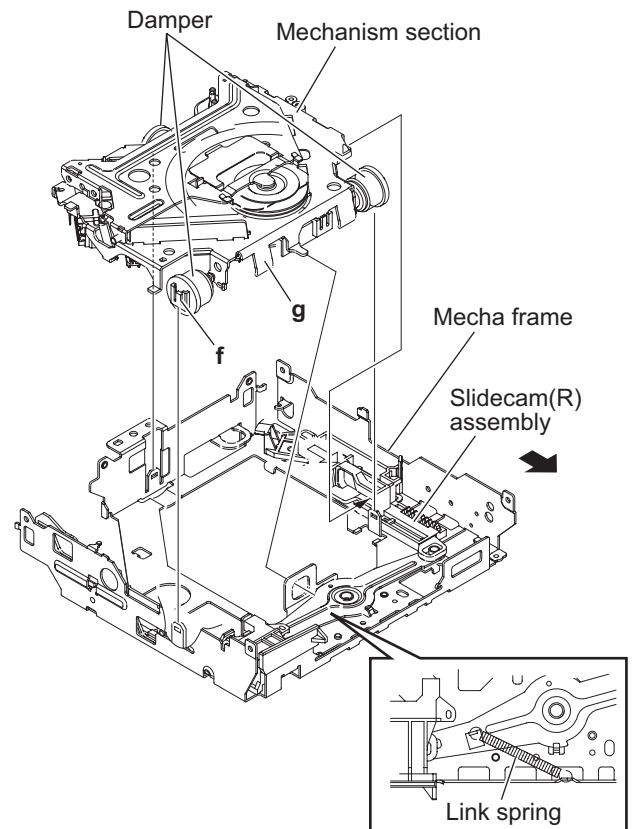


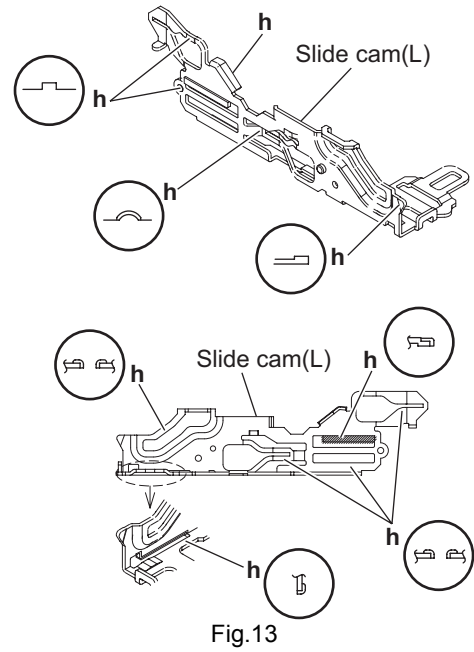
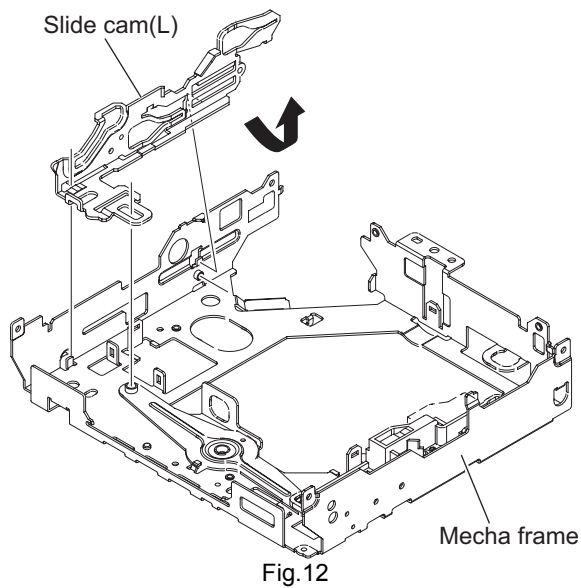
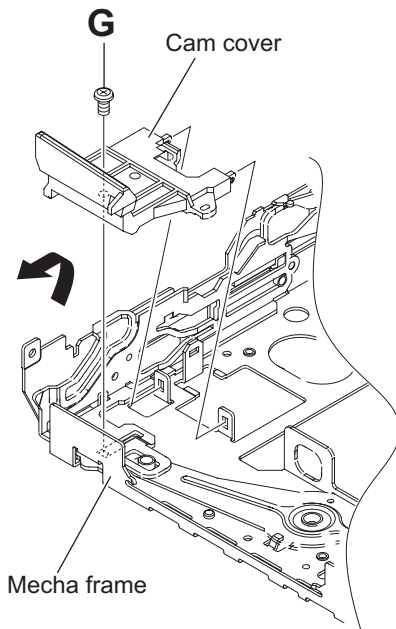
Fig.10

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

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



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.
 - From the top side of the mecha frame, take out the slide cam (R) assembly in an upward direction. (See Fig.14.)
 - 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.)

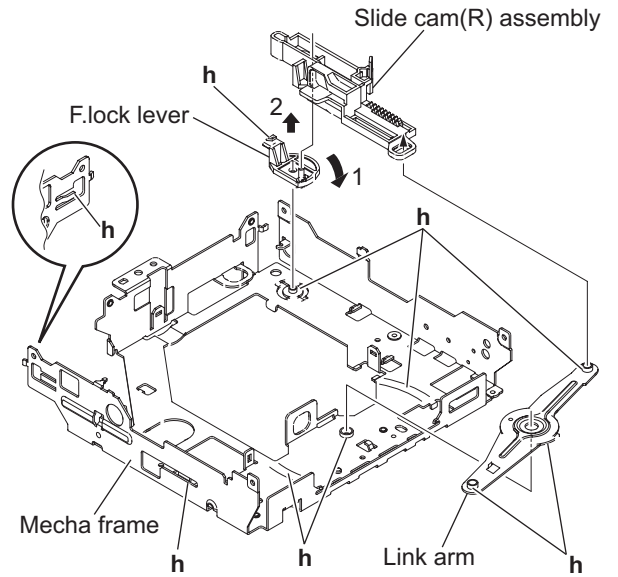


Fig.14

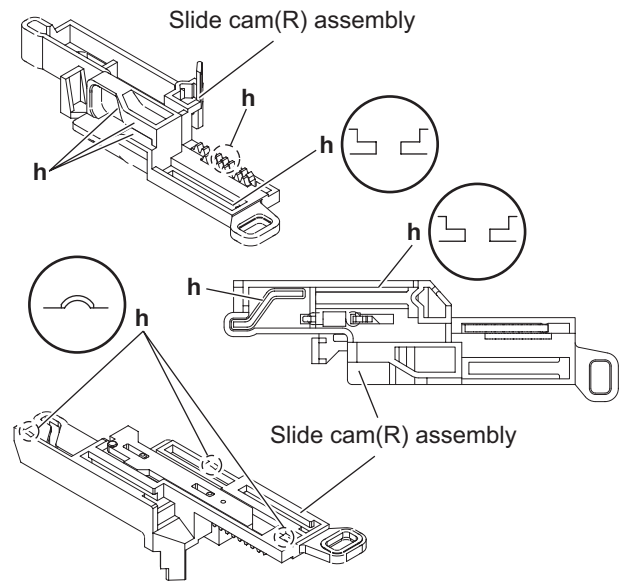


Fig.15

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.

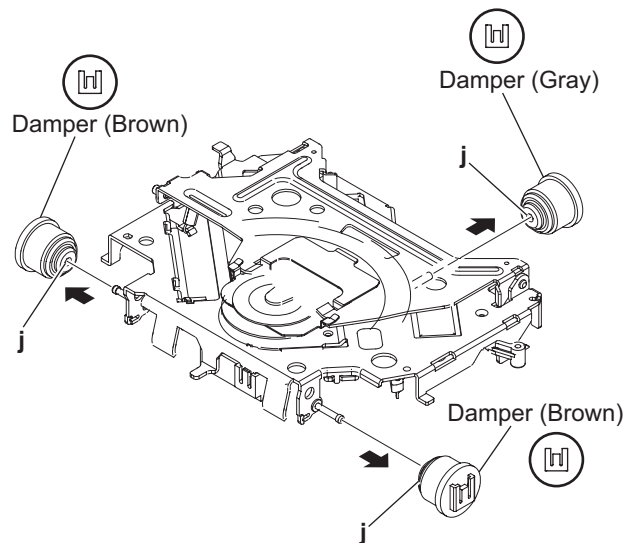


Fig.16

3.2.9 Removing the clamper assembly (See Fig.17)

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

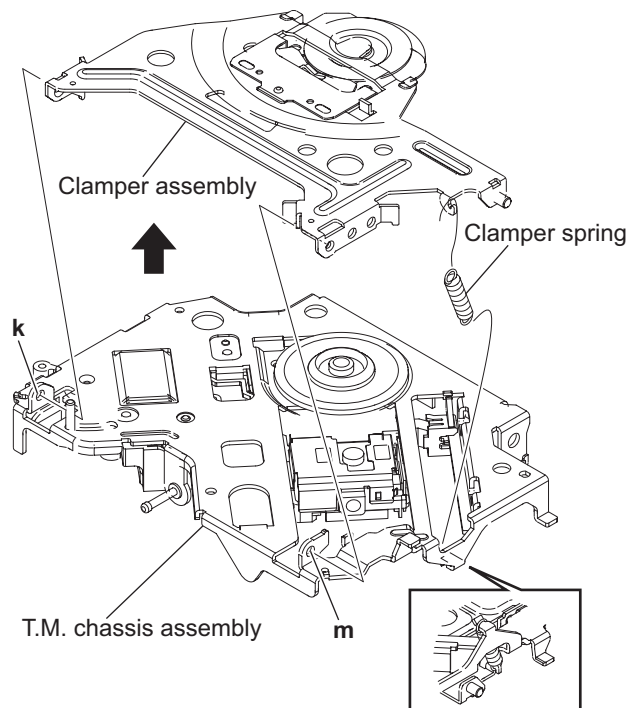


Fig.17

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

- Remove the MECHANISM CONTROL BOARD assembly, top cover, mechanism section and clamber assembly.
 - From the bottom side of the T.M chassis assembly, remove the two screws **H** attaching the feed motor assembly. (See Fig.18.)
 - Remove the two screws **J** 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, clamber 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.

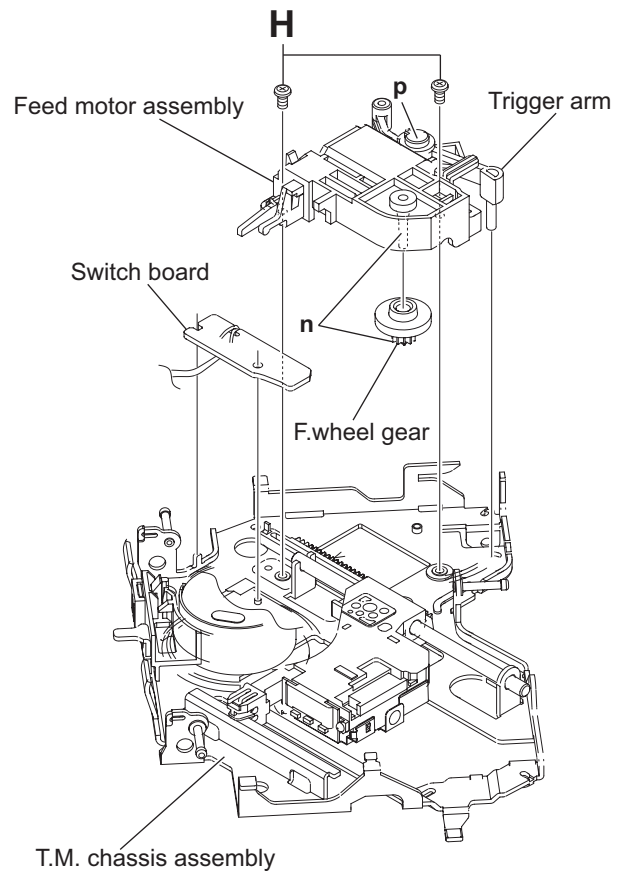


Fig.18

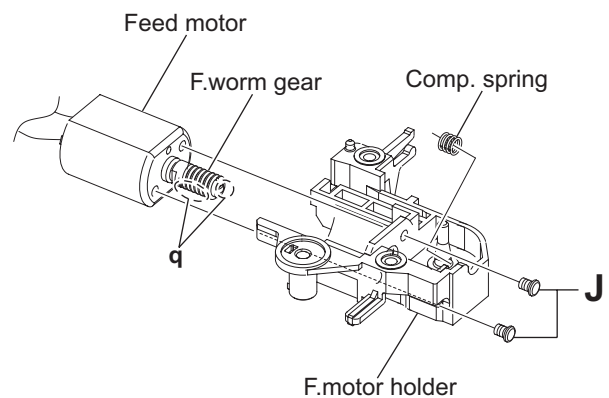


Fig.19

3.2.12 Removing the loading motor (See Fig.20)

- Remove the MECHANISM CONTROL BOARD assembly, top cover, mechanism section and clamber assembly.
 - From the right side of the L.M base assembly, remove the two screws **K** attaching the loading motor.
 - 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**.

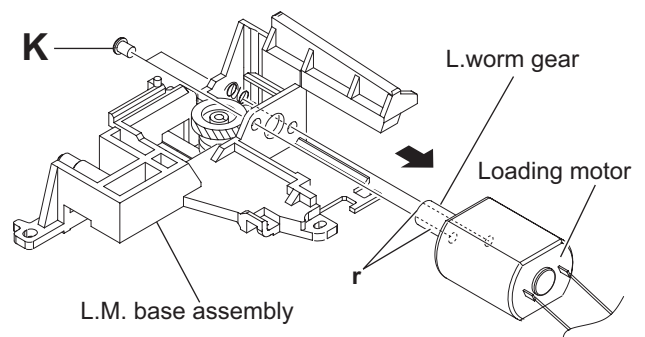


Fig.20

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

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

Caution:

- Do not touch section **u** on the pickup assembly. (See Fig.21 and 22.)
- 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.)
 - Pull out the main shaft. (See Fig.21.)
 - Remove the screw **M** 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.)

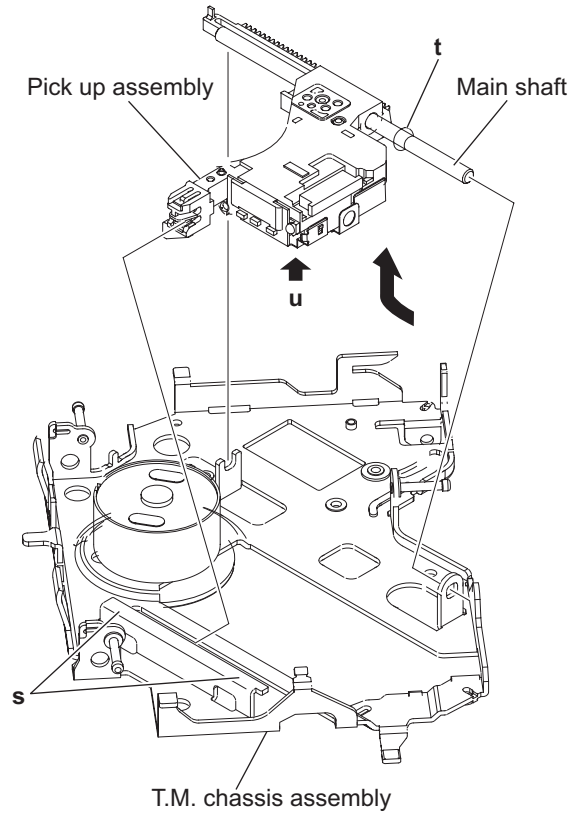


Fig.21

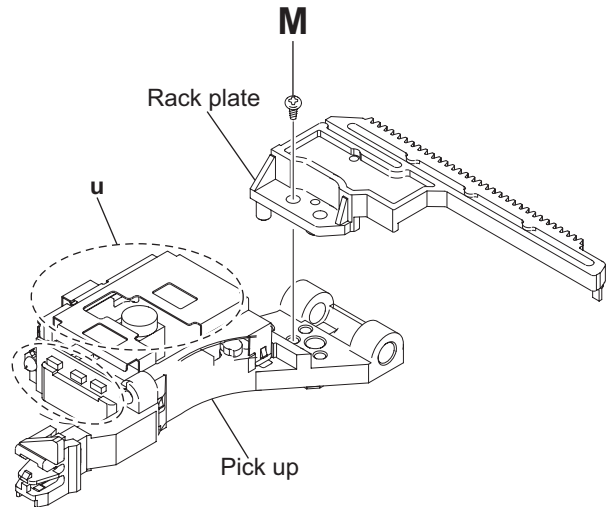


Fig.22

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

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

- From the top side of the T.M chassis assembly, remove the CD T.table assembly from the spindle motor. (See Fig.23.)
- Remove the two screws **N** attaching the spindle motor. (See Fig.23.)
- 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.)

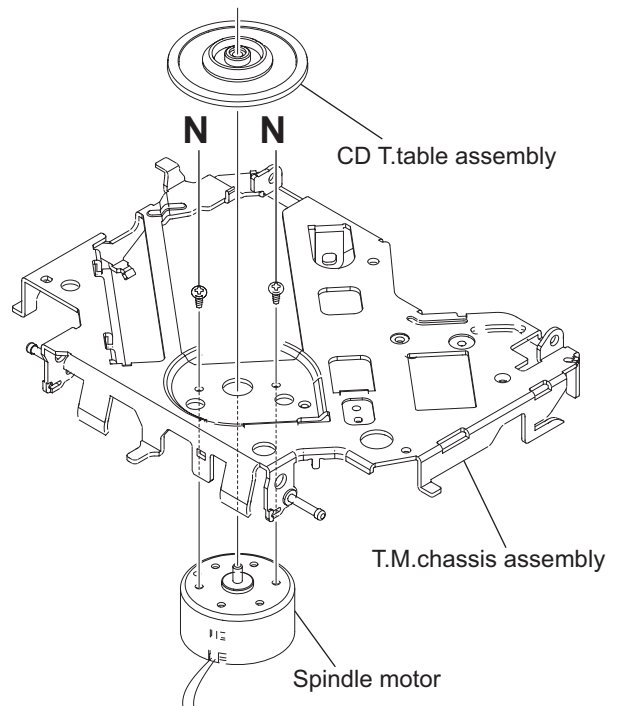


Fig.23

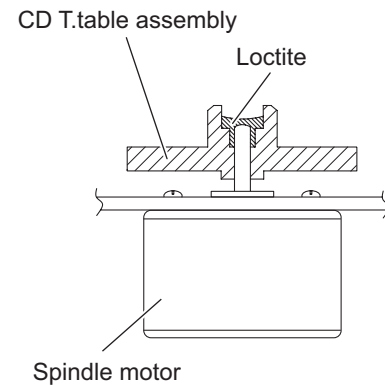


Fig.24

SECTION 4 ADJUSTMENT

4.1 Test instruments required for adjustment

- (1) Digital oscilloscope (100MHz)
- (2) Electric voltmeter
- (3) Digital tester
- (4) Tracking offset meter
- (5) Test Disc JVC :CTS-1000
- (6) Extension cable for check
EXTGS004-26PL x 1

4.2 Standard measuring conditions

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

4.5 How to connect the extension cable for adjusting

Caution:

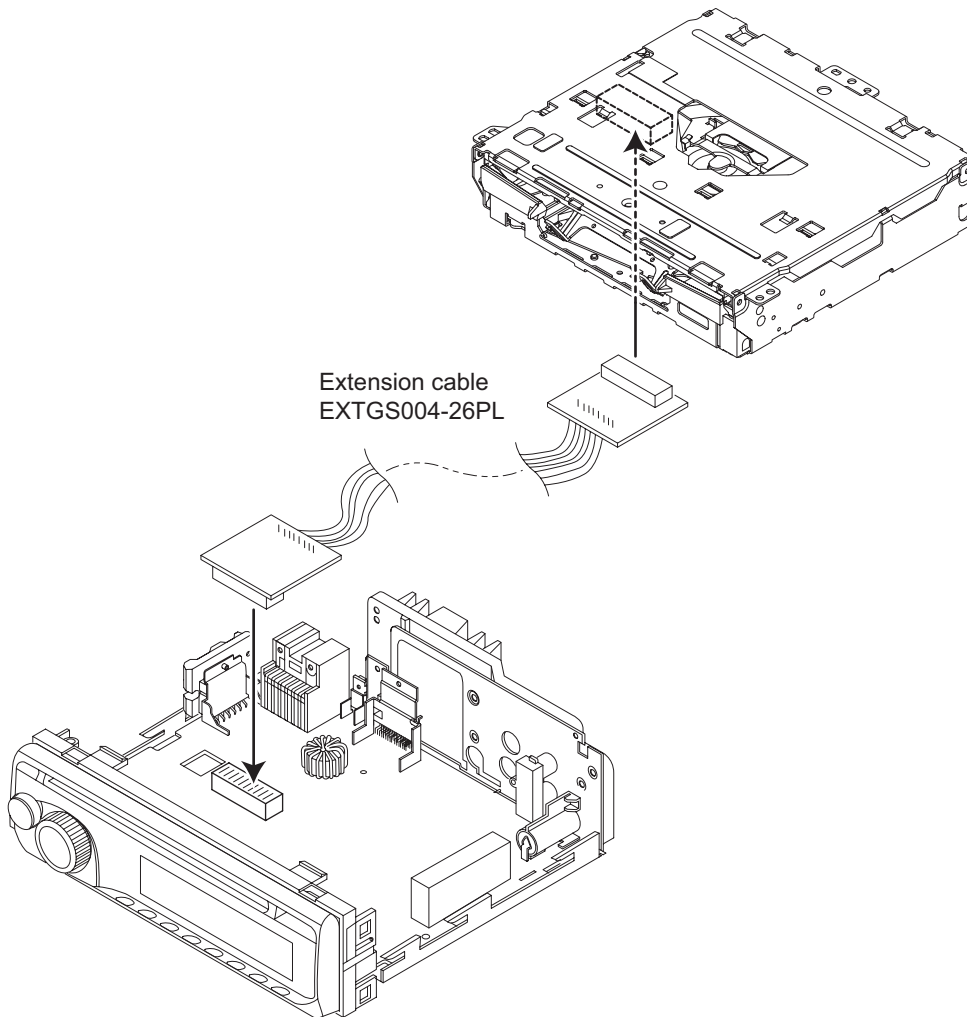
Be sure to attach the heat sink and rear bracket onto the power amplifier IC and regulator IC respectively, before supply the power.
If voltage is applied without attaching these parts, the power amplifier IC and regulator IC will be destroyed by heat.

4.3 Standard volume position

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

4.4 Dummy load

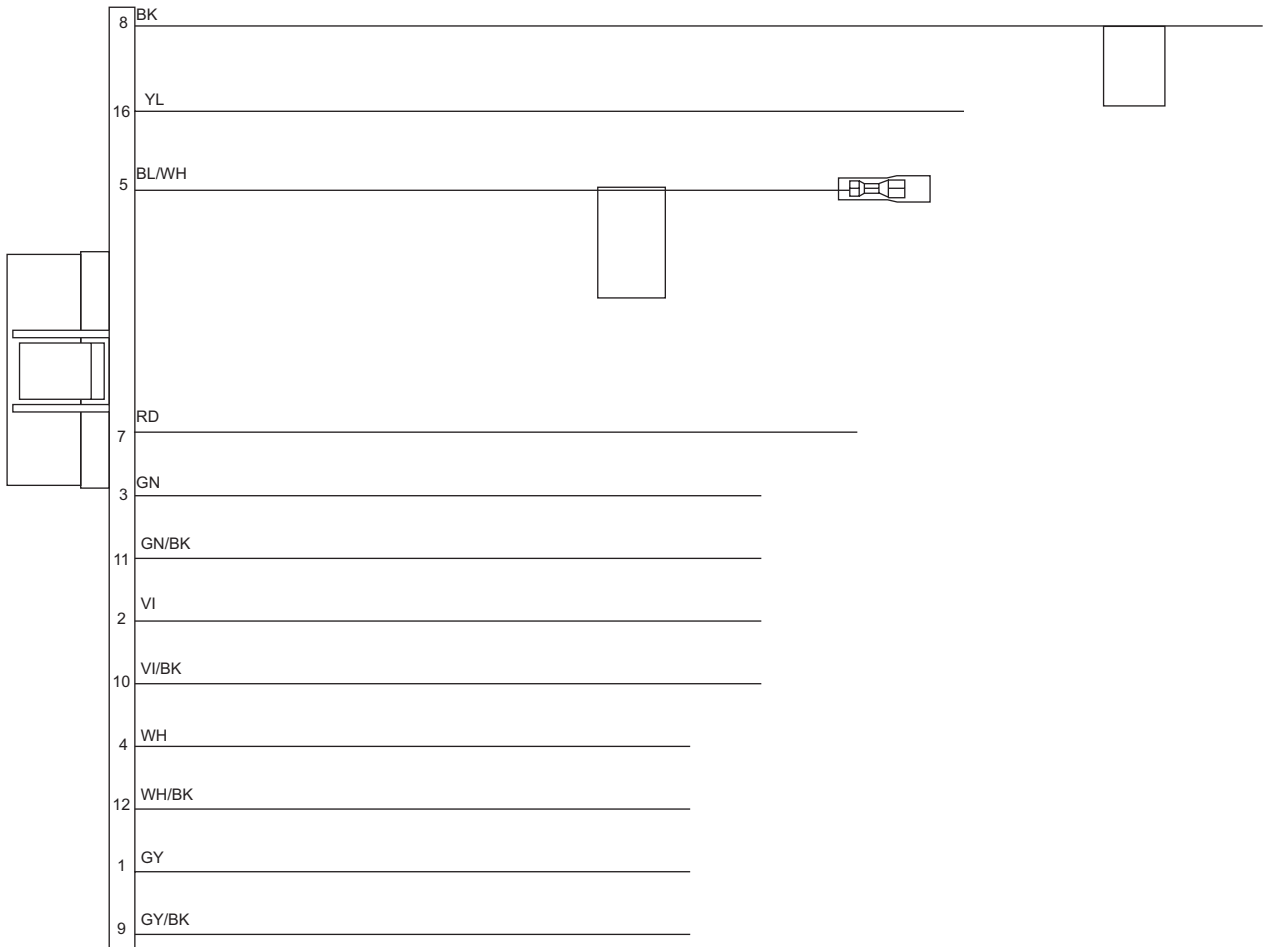
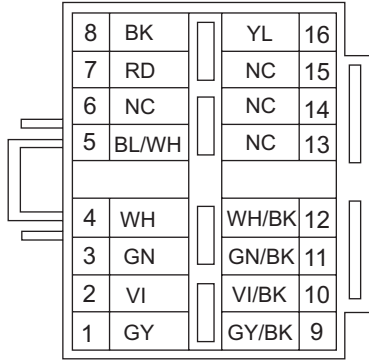
Exclusive dummy load should be used for AM, and FM.
For FM dummy load, there is a loss of 6dB between SSG output and antenna input.
The loss of 6dB need not be considered since direct reading of figures are applied in this working standard.



SECTION 5 TROUBLESHOOTING

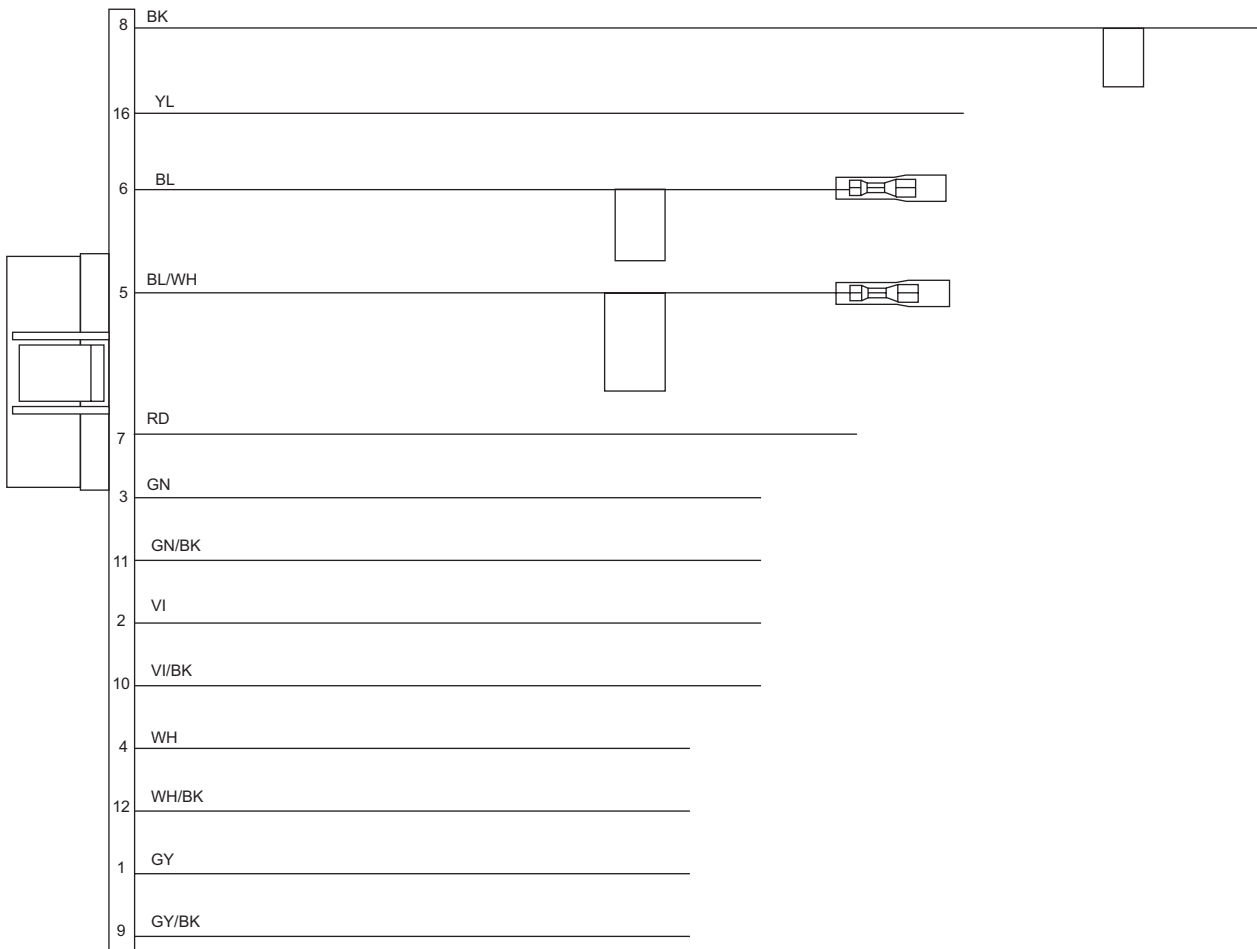
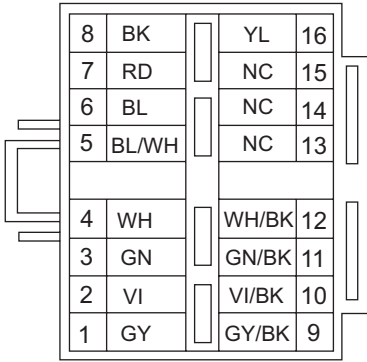
5.1 16 PIN CORD DIAGRAM (for KD-AR390, KD-G340 and KD-S25)

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



5.2 16 PIN CORD DIAGRAM (except KD-AR390 AND KD-G340)

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





JVC

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

(No.MA376<Rev.002>)



REVISION INFORMATION

CD RECEIVER

**KD-AR390J, KD-G340J, KD-G444UI,
KD-G445U, KD-G445UN, KD-G445UT,
KD-G445UH, KD-G446U, KD-G446UN,
KD-G446UT, KD-G446UH, KD-S25J**

■ OVERVIEW

Add KD-S25J

■ DETAILS

COVER SECTION

| Title | Line | No.MA376<Rev.001> | No.MA376<Rev.002> | Description |
|--------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Revision | | Rev. 001 | Rev. 002 | |
| Issue Date | | 2007/12 | 2008/05 | |
| Model No. | | KD-AR390J, KD-G340J, KD-G444UI, KD-G445U, KD-G445UH, KD-G445UN, KD-G445UT, KD-G446U, KD-G446UH, KD-G446UN, KD-G446UT | KD-AR390J, KD-G340J, KD-G444UI, KD-G445U, KD-G445UH, KD-G445UN, KD-G445UT, KD-G446U, KD-G446UH, KD-G446UN, KD-G446UT, KD-S25J | |
| Cover Illustration | | ILLUSTRATION(ma376_0001.png) | ILLUSTRATION(ma376_0001.png) | |
| Copyright | | COPYRIGHT (C) 2007 Victor Company of Japan, Limited | COPYRIGHT (C) 2008 Victor Company of Japan, Limited | |
| SPECIFICATION | 1 | KD-AR390/KD-G340 | KD-AR390/KD-G340/ KD-S25 | |
| | 12 | KD-G340 2.5 V/20 kΩ load (full scale) | KD-G340/ KD-S25 2.5 V/20 kΩ load (full scale) | |
| | 14 | KD-G340 2.5 V/20 kΩ load (full scale) | KD-G340/ KD-S25 2.5 V/20 kΩ load (full scale) | |

SECTION 5 TROUBLESHOOTING

| Title | Line | No.MA376<Rev.001> | No.MA376<Rev.002> | Description |
|------------------------------------------------------------|------|-----------------------------------------------------------|------------------------------------------------------------|-------------|
| 5.1 16 PIN CORD DIAGRAM (for KD-AR390, KD-G340 and KD-S25) | T | 5.1 16 PIN CORD DIAGRAM (for KD-AR390 AND KD-G340) | 5.1 16 PIN CORD DIAGRAM (for KD-AR390, KD-G340 and KD-S25) | |

STANDARD SCHEMATIC DIAGRAMS

Description of Major ICs

| Diagram Name | No.MA376<Rev.001> | No.MA376<Rev.002> | Description |
|--------------|--------------------|-------------------------------------|-------------|
| Menu | - | IC681: NJL21H380A NJL21H380A.xml | |
| Menu | IC1: TEF6601T_V2-X | IC1: TEF6601T/V2-X | |

PARTS LIST

MODEL No. LIST

| Model No. | No.MA376<Rev.002> |
|-----------|-------------------|
| KD-AR390J | 01 |
| KD-G340J | 02 |
| KD-G444UI | 03 |
| KD-G445U | 04 |
| KD-G445UH | 07 |
| KD-G445UN | 05 |
| KD-G445UT | 06 |
| KD-G446U | 08 |
| KD-G446UH | 0B |
| KD-G446UN | 09 |
| KD-G446UT | 0A |
| KD-S25J | 0C |

General assembly [M1]

| △ | Symbol | or | Part No. | | Part Name | Description | Qty | Models |
|---|--------|----|-----------|--------------|-----------------|-------------|-----|--------|
| | | | <Rev.001> | <Rev.002> | | | | |
| | M1 | 1 | ----- | GE10216-011A | TOP CHASSIS | (Addition) | 1 | 0C |
| | M1 | 2 | ----- | GE33234-001A | HEAT SINK | (Addition) | 1 | 0C |
| | M1 | 3 | ----- | GE20232-002A | BOTTOM COVER | (Addition) | 1 | 0C |
| | M1 | 8 | ----- | GE40377-001A | SCREW | (Addition) | 2 | 0C |
| | M1 | 10 | ----- | QYSDST2606ZA | TAP SCREW | (Addition) | 1 | 0C |
| | M1 | 23 | ----- | GE32864-004A | F.PANEL HI ASSY | (Addition) | 1 | 0C |
| | M1 | 24 | ----- | GE33246-016A | FINDER ASSY | (Addition) | 1 | 0C |
| | M1 | 29 | ----- | GE32817-004A | DETACH BTN | (Addition) | 1 | 0C |
| | M1 | 44 | ----- | GE33366-001A | NAME PLATE | (Addition) | 1 | 0C |
| | M1 | 45 | ----- | QLD0549-001 | LCD MODULE | (Addition) | 1 | 0C |
| | M1 | 55 | ----- | QYSDSP4014ZA | SCREW | (Addition) | 1 | 0C |
| | M1 | 56 | ----- | GE40225-001A | CAR STEREO TAG | (Addition) | 1 | 0C |
| | M1 | 57 | ----- | QYSDST2606ZA | TAP SCREW | (Addition) | 1 | 0C |
| | M1 | 58 | ----- | GE40218-083A | SHEET | (Addition) | 1 | 0C |
| | M1 | 59 | ----- | GE40282-001A | LABEL | (Addition) | 1 | 0C |

Electrical parts list Main board [01]

| △ | Symbol | or | Part No. | | Part Name | Description | Qty | Models |
|---|--------|------|-----------|--------------|-----------|-------------|-----|--------|
| | | | <Rev.001> | <Rev.002> | | | | |
| | 01 | D786 | ----- | 1SS380-X | SI DIODE | (Addition) | 1 | 0C |
| | 01 | L3 | ----- | QQL213M-R22Z | COIL | (Addition) | 1 | 0C |

Switch board [02]

| △ | Symbol | or | Part No. | | Part Name | Description | Qty | Models |
|---|--------|-------|-----------|--------------|-------------|-------------|-----|--------|
| | | | <Rev.001> | <Rev.002> | | | | |
| | 02 | IC681 | ----- | NJL21H380A | REMOCON RCV | (Addition) | 1 | 0C |
| | 02 | D632 | ----- | LHQ974/LM/-X | LED | (Addition) | 1 | 0C |
| | 02 | R656 | ----- | NRS181J-181X | MG RESISTOR | (Addition) | 1 | 0C |
| | 02 | R658 | ----- | NRSA63J-561X | MG RESISTOR | (Addition) | 1 | 0C |

| △ | Symbol | or | Part No. | | Part Name | Description | Qty | Models |
|---|--------|------|-----------|--------------|-------------|-------------|-----|--------|
| | | | <Rev.001> | <Rev.002> | | | | |
| | 02 | R660 | ----- | NRSA63J-0R0X | MG RESISTOR | (Addition) | 1 | 0C |
| | 02 | R661 | ----- | NRSA63J-102X | MG RESISTOR | (Addition) | 1 | 0C |
| | 02 | R662 | ----- | NRSA63J-102X | MG RESISTOR | (Addition) | 1 | 0C |
| | 02 | R663 | ----- | NRSA63J-394X | MG RESISTOR | (Addition) | 1 | 0C |
| | 02 | R664 | ----- | NRSA63J-102X | MG RESISTOR | (Addition) | 1 | 0C |
| | 02 | R670 | ----- | NRSA63J-102X | MG RESISTOR | (Addition) | 1 | 0C |
| | 02 | R672 | ----- | NRSA63J-102X | MG RESISTOR | (Addition) | 1 | 0C |

Packing and accessories [M3]

| △ | Symbol | or | Part No. | | Part Name | Description | Qty | Models |
|---|--------|-----|-----------|--------------|----------------|-------------|-----|--------|
| | | | <Rev.001> | <Rev.002> | | | | |
| | M3 | A1 | ----- | GET0562-001A | INST BOOK | (Addition) | 1 | 0C |
| | M3 | A4 | ----- | GET0562-002A | INST.MANUAL | (Addition) | 1 | 0C |
| | M3 | A8 | ----- | GE20235-004A | TRIM PLATE | (Addition) | 1 | 0C |
| | M3 | A18 | ----- | ----- | WARRANTY CARD | (Addition) | 1 | 0C |
| | M3 | A20 | ----- | BT-51044-1 | REGIS. CARD | (Addition) | 1 | 0C |
| | M3 | A21 | ----- | GET0222-001A | TAG CAUTION SH | (Addition) | 1 | 0C |
| | M3 | P1 | ----- | GE33349-001A | CARTON | (Addition) | 1 | 0C |
| | M3 | P5 | ----- | GE10237-001A | CUSHION | (Addition) | 1 | 0C |



Victor Company of Japan, Limited

Mobile Entertainment Business Group Mobile Entertainment Category 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

PARTS LIST

KD-AR390J,KD-G340J,KD-G444UI
KD-G445U,KD-G445UN,KD-G445UT
KD-G445UH,KD-G446U,KD-G446UN
KD-G446UT,KD-G446UH,KD-S25J

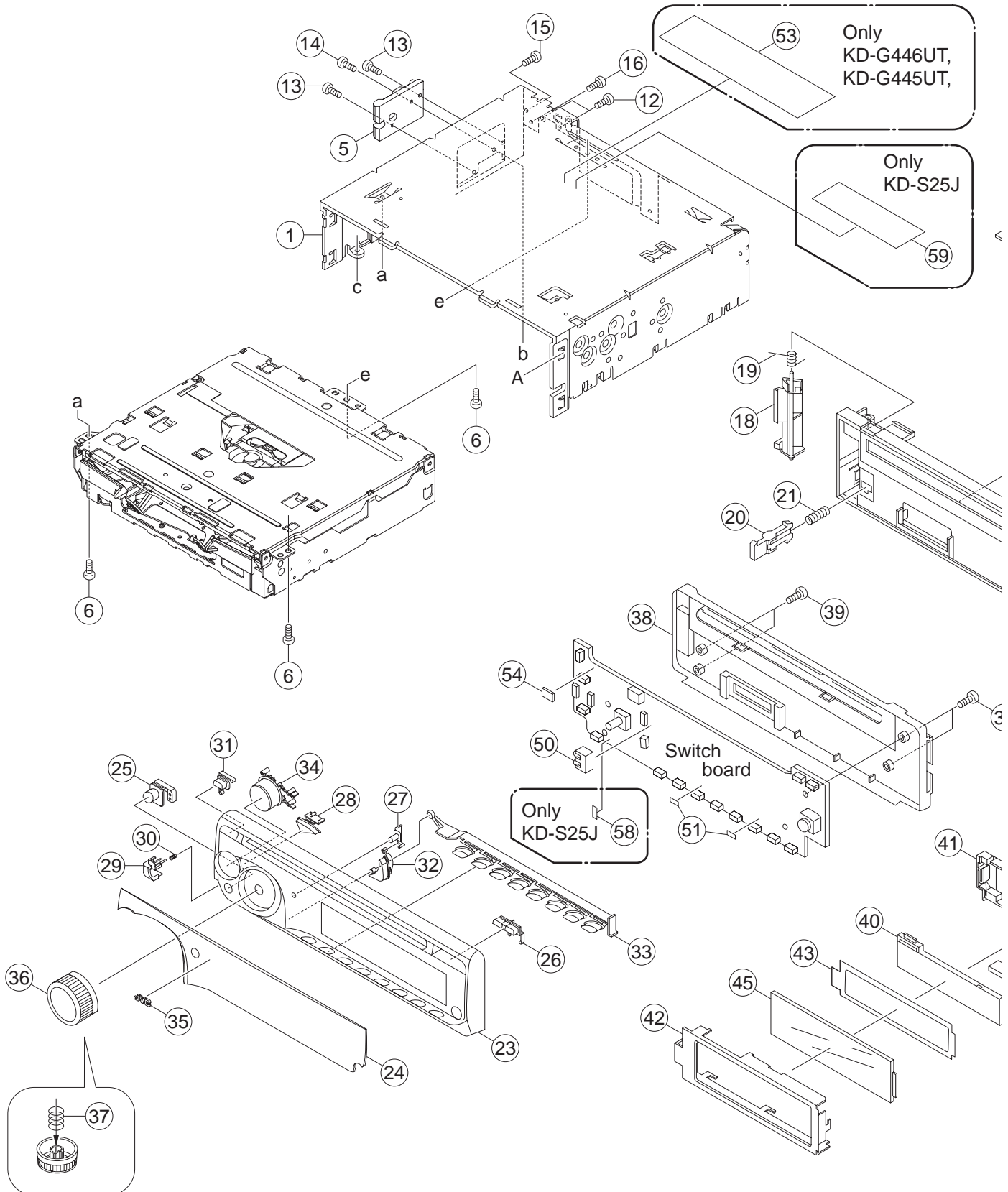
* All printed circuit boards and its assemblies are not available as service parts.

- Contents -

| | |
|----------------------------------------------------------------------|------|
| Exploded view of general assembly and parts list (Block No.M1) | 3- 2 |
| CD mechanism assembly and parts list (Block No.MB) | 3- 6 |
| Electrical parts list (Block No.01~03) | 3- 8 |
| Packing materials and accessories parts list (Block No.M3) | 3-14 |

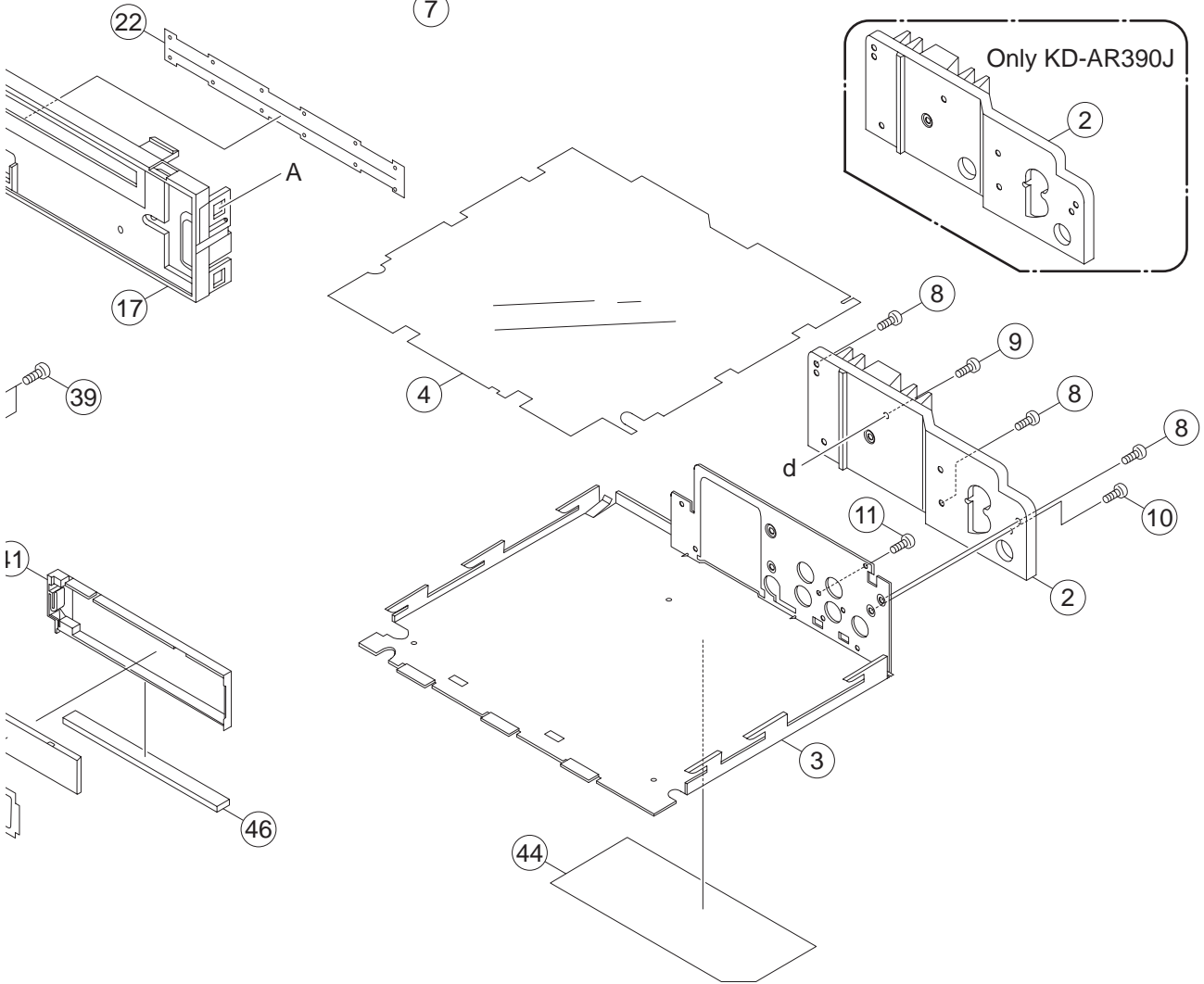
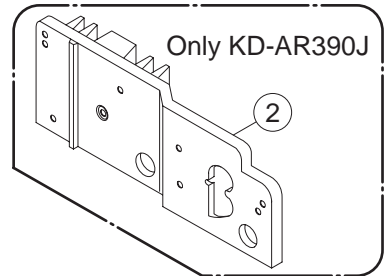
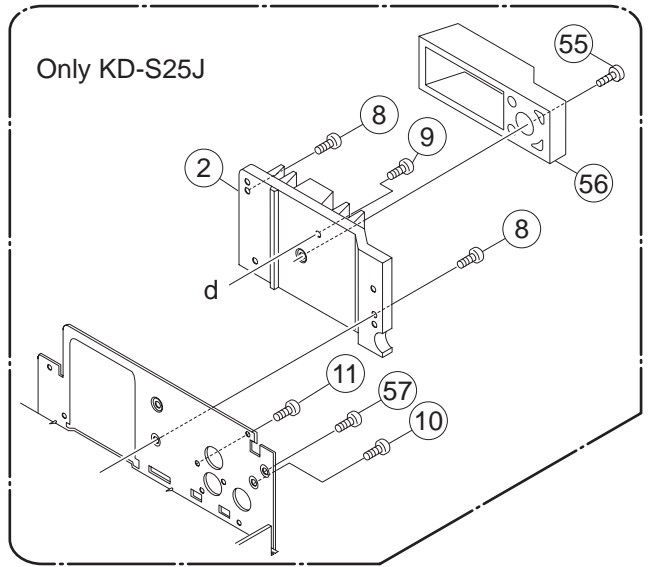
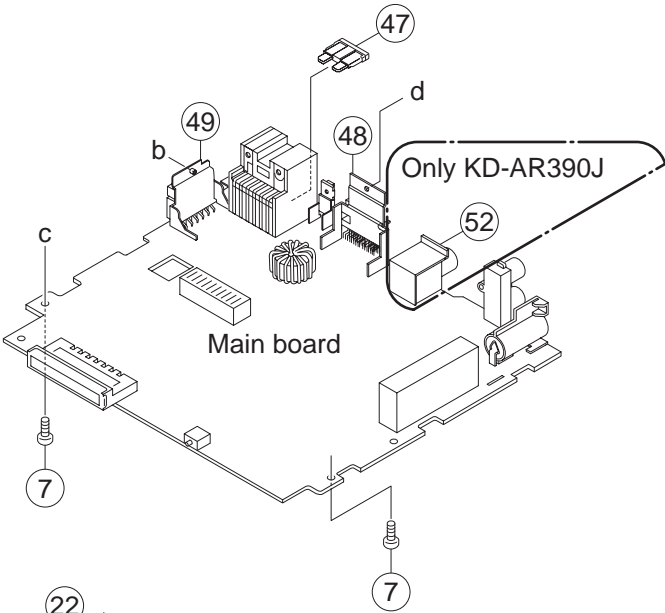
Exploded view of general assembly and parts list

Block No. M 1 M M



M

5J



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 | GE10216-007A | TOP CHASSIS | | AR390J,G340J,G444UI,G445U,G445UN,G445UT,G445UH,G446U,G446UN,G446UT,G446UH |
| | 1 | GE10216-011A | TOP CHASSIS | | S25J |
| | 2 | GE32823-001A | HEAT SINK | | AR390J |
| | 2 | GE32823-002A | HEAT SINK | | G340J,G444UI,G445U,G445UN,G445UT,G445UH,G446U,G446UN,G446UT,G446UH |
| | 2 | GE33234-001A | HEAT SINK | | S25J |
| | 3 | GE20228-001A | BOTTOM COVER | | AR390J,G340J,G444UI,G445U,G445UN,G445UT,G445UH,G446U,G446UN,G446UT,G446UH |
| | 3 | GE20232-002A | BOTTOM COVER | | S25J |
| | 4 | GE32830-002A | INSULATOR | | |
| | 5 | GE40395-001A | SIDE PANEL | | |
| | 6 | QYSDST2604ZA | TAP SCREW | M2.6 x 4mm(x3) | |
| | 7 | GE40377-002A | SCREW | (x2) | |
| | 8 | GE40377-001A | SCREW | (x3) | AR390J,G340J,G444UI,G445U,G445UN,G445UT,G445UH,G446U,G446UN,G446UT,G446UH |
| | 8 | GE40377-001A | SCREW | (x2) | S25J |
| | 9 | QYSDST2610ZA | TAP SCREW | M2.6 x 10mm | |
| | 10 | QYSDST2610ZA | TAP SCREW | M2.6 x 10mm | AR390J,G340J,G444UI,G445U,G445UN,G445UT,G445UH,G446U,G446UN,G446UT,G446UH |
| | 10 | QYSDST2606ZA | TAP SCREW | M2.6 x 6mm | S25J |
| | 11 | QYSDSF2606ZA | TAP SCREW | M2.6 x 6mm | |
| | 12 | QYSDSF2606ZA | TAP SCREW | M2.6 x 6mm(x2) | |
| | 13 | GE40377-002A | SCREW | (x2) | |
| | 14 | QYSDST2608ZA | TAP SCREW | M2.6 x 8mm | |
| | 15 | QYSDST2604ZA | TAP SCREW | M2.6 x 4mm | |
| | 16 | QYSDST2606ZA | TAP SCREW | M2.6 x 6mm | |
| | 17 | GE10215-001A | FRONT CHASSIS | | |
| | 18 | GE32350-002A | LOCK LEVER | | |
| | 19 | GE40368-002A | TORSION SPRING | | |
| | 20 | GE32810-001A | RELEASE LEVER | | |
| | 21 | GE30999-004A | COMP.SPRING | | |
| | 22 | GE40400-001A | BLIND | | |
| | 23 | GE32864-006A | F.PANEL HI ASSY | | AR390J,G446U,G446UN,G446UT,G446UH |
| | 23 | GE32864-002A | F.PANEL HI ASSY | | G340J |
| | 23 | GE32864-008A | F.PANEL HI ASSY | | G444UI,G445U,G445UN,G445UT,G445UH |
| | 23 | GE32864-004A | F.PANEL HI ASSY | | S25J |
| | 24 | GE32866-015A | FINDER ASSY | | AR390J |
| | 24 | GE32866-004A | FINDER ASSY | | G340J |
| | 24 | GE32866-018A | FINDER ASSY | | G444UI |
| | 24 | GE32866-019A | FINDER ASSY | | G445U,G445UN,G445UT,G445UH |
| | 24 | GE32866-020A | FINDER ASSY | | G446U,G446UN,G446UT,G446UH |
| | 24 | GE33246-016A | FINDER ASSY | | S25J |
| | 25 | GE32812-011A | SRC BUTTON | | |
| | 26 | GE32814-001A | BAND EQ BTN | | |
| | 27 | GE32815-001A | PUSH BTN | | |
| | 28 | GE32816-001A | POWER BTN | | AR390J,G446U,G446UN,G446UT,G446UH |
| | 28 | GE32816-002A | POWER BTN | | ,S25J |
| | 29 | GE32817-001A | DETACH BTN | | G340J,G444UI,G445U,G445UN,G445UT,G445UH |
| | 29 | GE32817-002A | DETACH BTN | | AR390J,G446U,G446UN,G446UT,G446UH |
| | 29 | GE32817-005A | DETACH BTN | | G340J |
| | 29 | GE32817-004A | DETACH BTN | | G444UI,G445U,G445UN,G445UT,G445UH |
| | 30 | GE30999-006A | COMP.SPRING | | S25J |
| | 31 | GE32818-001A | EJECT BTN | | |
| | 32 | GE32824-004A | AUX BUTTON | | AR390J,G446U,G446UN,G446UT,G446UH |
| | 32 | GE32824-005A | AUX BUTTON | | ,S25J |
| | 33 | GE20233-001A | PRESET BTN | | G340J,G444UI,G445U,G445UN,G445UT,G445UH |
| | 33 | GE20227-001A | PRESET BTN | | AR390J,G446U,G446UN,G446UT,G446UH |
| | 34 | GE40399-001A | NAVI BTN ASSY | | ,S25J |
| | 34 | GE40399-002A | NAVI BTN ASSY | | G340J,G444UI,G445U,G445UN,G445UT,G445UH |
| | 35 | GE40347-001A | JVC BADGE | | |
| | 36 | GE32822-001A | VOL KNOB LOW | | AR390J,G446U,G446UN,G446UT,G446UH |
| | | | | | ,S25J |

| △ | Symbol No. | Part No. | Part Name | Description | Local |
|---|------------|----------------|-----------------|-------------|------------------------------------------------------------------|
| | 36 | GE32822-002A | VOL KNOB LOW | | G340J,G444UI,G445U,G445UN,G445UT,G445UH |
| | 37 | GE40127-005A | KNOB SPRING | | |
| | 38 | GE10214-001A | REAR COVER | | |
| | 39 | VKZ4777-010 | MINI SCREW | (x4) | |
| | 40 | GE32819-001A | LCD LENS | | |
| | 41 | GE32820-001A | LENS CASE | | |
| | 42 | GE32821-001A | LCD CASE | | |
| | 43 | GE40397-002A | LIGHTING SHEET | | |
| | 44 | GE32888-002A | NAME PLATE | | AR390J |
| | 44 | GE32945-002A | NAME PLATE | | G340J |
| | 44 | GE33193-001A | NAME PLATE | | G444UI |
| | 44 | GE33187-001A | NAME PLATE | | G445U,G445UN,G445UT,G445UH |
| | 44 | GE33190-001A | NAME PLATE | | G446U,G446UN,G446UT,G446UH |
| | 44 | GE33366-001A | NAME PLATE | | S25J |
| | 45 | QLD0518-001 | LCD MODULE | | AR390J,G340J |
| | 45 | QLD0543-001 | LCD MODULE | | G444UI,G445U,G445UN,G445UT,G445UH, G446U,G446UN,G446UT,G446UH |
| | 45 | QLD0549-001 | LCD MODULE | | S25J |
| | 46 | QNZ0950-001 | RUBBER CONNECTO | | |
| △ | 47 | QMFZ063-150-J1 | FUSE | 15A | |
| | 48 | GE40396-002A | REG BRACKET | | |
| | 49 | GE40354-001A | IC BRACKET | | |
| | 50 | GE30854-001A | LED HOLDER | | |
| | 51 | FSYH4036-069 | SHEET | (x2) | AR390J,G446U,G446UN,G446UT,G446UH, S25J |
| | 52 | GE40424-001A | OE HOLDING BKT | | AR390J |
| | 53 | GE31574-093A | UT LABEL | | G445UT |
| | 53 | GE31574-094A | UT LABEL | | G446UT |
| | 54 | FSYH4036-069 | SHEET | | |
| | 55 | QYSDSP4014ZA | SCREW | M4 x 14mm | S25J |
| | 56 | GE40225-001A | CAR STEREO TAG | | S25J |
| | 57 | QYSDST2606ZA | TAP SCREW | M2.6 x 6mm | S25J |
| | 58 | GE40218-083A | SHEET | | S25J |
| | 59 | GE40282-001A | LABEL | | S25J |

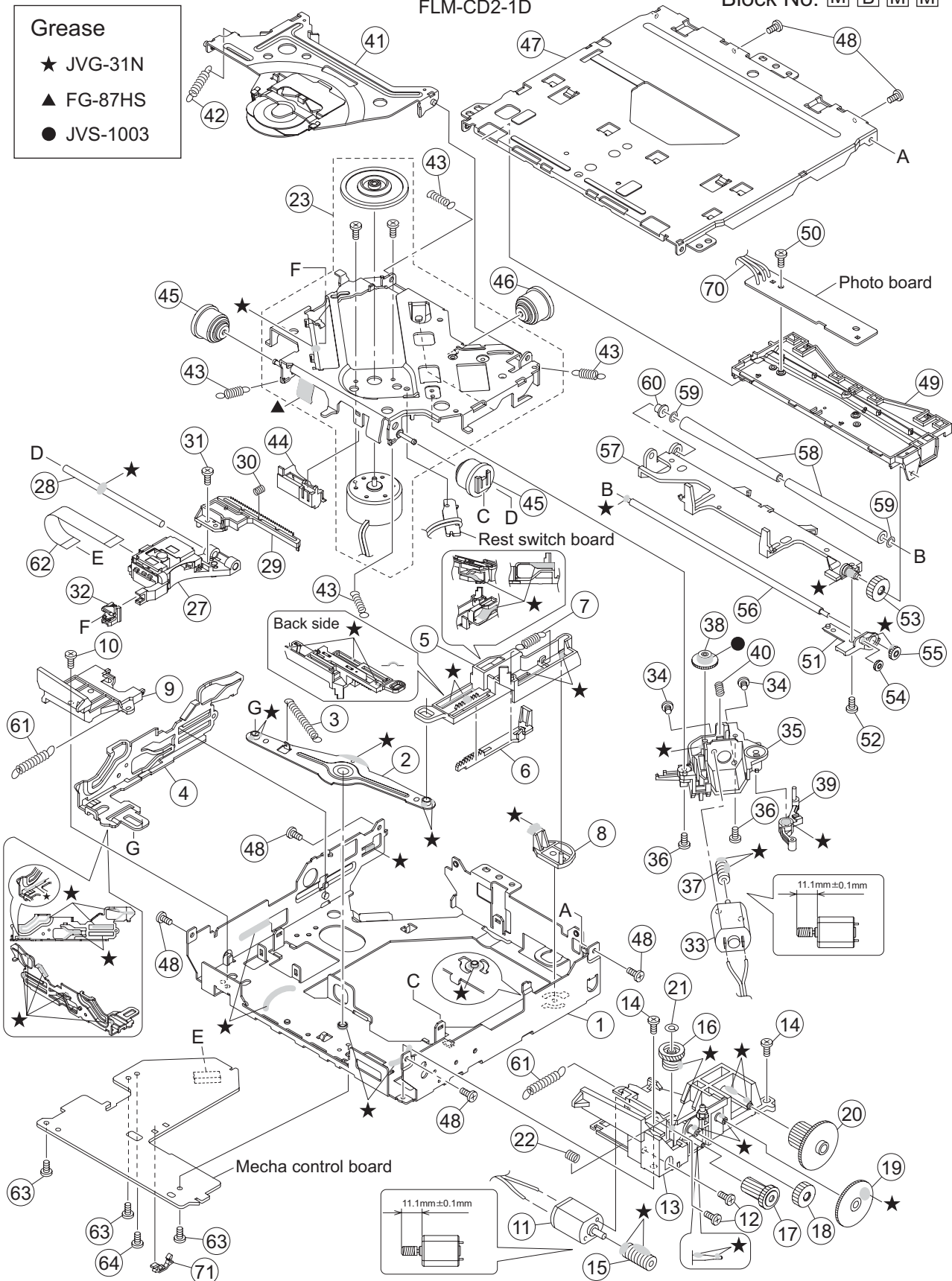
CD mechanism assembly and parts list

FLM-CD2-1D

Block No. M B M M

Grease

- ★ JVG-31N
- ▲ FG-87HS
- JVS-1003



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 | LV11256-001A | MECHA FRAME | | |
| | 2 | LV36800-001A | LINK ARM | | |
| | 3 | LV44658-001A | LINK SPRING | | |
| | 4 | LV22300-001A | SLIDE CAM(L) | | |
| | 5 | LV22298-002A | SLIDE CAM(R) | | |
| | 6 | LV36802-001A | LOAD RACK | | |
| | 7 | LV44552-001A | RETURN SPRING | | |
| | 8 | LV36803-002A | F LOCK LEVER | | |
| | 9 | LV36804-002A | CAM COVER | | |
| | 10 | VKZ4539-054 | MINI SCREW | | |
| | 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 | CM-FLMCD1D | SPINDLE MOTOR ASSY | | |
| | 27 | QAL0993-001 | PICK UP | | |
| | 28 | LV44555-001A | MAIN SHAFT | | |
| | 29 | LV36799-001A | RACK PLATE | | |
| | 30 | LV44640-001A | RACK SPRING | | |
| | 31 | QYSPSGT1745ZA | TAP SCREW | M1.7 x 4.5mm | |
| | 32 | LV36813-001A | SUB GUIDE CAP | | |
| | 33 | QAR0144-003 | MOTOR | 2.0V DC | |
| | 34 | QYSPSPT2025MA | SCREW | M2 x 2.5mm(x2) | |
| | 35 | LV22296-001A | F.MOTOR HOLDER | | |
| | 36 | VKZ4539-054 | MINI SCREW | (x2) | |
| | 37 | LV36814-001A | F.WORM GEAR | | |
| | 38 | LV36815-001A | F.WHEEL GEAR | | |
| | 39 | LV36816-001A | TRIGGER ARM | | |
| | 40 | LV44589-002A | COMPRESSION SPRING | | |
| | 41 | LV37326-001A | CLAMPER ASSY | | |
| | 42 | LV44557-002A | CLAMPER SPRING | | |
| | 43 | LV44558-001A | SUS SPRING | (x4) | |
| | 44 | LV36820-001A | WIRE HOLDER | | |
| | 45 | LV36904-001A | DAMPER | (x2) | |
| | 46 | LV37061-001A | DAMPER | | |
| | 47 | LV11260-002A | TOP COVER | | |
| | 48 | VKZ4539-054 | MINI SCREW | (x6) | |
| | 49 | LV11264-003A | DISC PLATE | | |
| | 50 | LV44586-001A | SPECIAL SCREW | | |
| | 51 | LV36801-001A | 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 | LV22325-001A | R.HOLDER 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 | VKZ4539-054 | MINI SCREW | | |
| | 70 | WJS0085-001A-E | E-FL/RB WIRE | | |
| | 71 | LV34916-001A | WIRE CLAMP | | |

Electrical parts list

Main board

Block No. [0][1]

| △ Symbol No. | Part No. | Part Name | Description | Local |
|--------------|------------------|-----------------|-------------|-------------------------------------------------------------------------------------------------------|
| △ IC1 | TEF6601T/V2-X | IC | | |
| IC161 | BD3445FS-X | IC | | |
| △ IC301 | TB2926AHQ | IC | | |
| IC381 | NJM2160BV-X | IC | | AR390J |
| △ IC501 | LA6565-X | IC | | |
| △ IC521 | MN6627945EE | IC | | |
| IC581 | NJM4565E-X | IC | | |
| △ IC701 | MN101E16MCA | IC | | |
| IC702 | S-80824CNNB-G-W | IC | | |
| IC702 | or IC-PST3424U-X | IC | | |
| IC771 | S-24CS04AFJ-G-X | IC | | |
| IC801 | 74AHCT126PW-X | IC | | |
| △ IC901 | AN34001A | REGULATOR IC | | |
| IC981 | NJM2878F4-15-X | IC | | |
| Q341 | IMX9-W | PAIR TRANSISTOR | | |
| Q501 | 2SA1705/ST-T | TRANSISTOR | | |
| Q521 | ISA1530AC1/R/-X | TRANSISTOR | | |
| Q521 | or 2SB709A/QR/-X | TRANSISTOR | | |
| Q781 | RT1P141C-X | DIGI TRANSISTOR | | |
| Q781 | or UN2111-X | TRANSISTOR | | |
| Q782 | RT6N430C-X | TRANSISTOR | | |
| Q784 | RT1P141C-X | DIGI TRANSISTOR | | |
| Q784 | or UN2111-X | TRANSISTOR | | |
| Q785 | RT1P141C-X | DIGI TRANSISTOR | | |
| Q785 | or UN2111-X | TRANSISTOR | | |
| Q882 | RT1P141C-X | DIGI TRANSISTOR | | |
| Q882 | or UN2111-X | TRANSISTOR | | |
| Q883 | RT1N141C-X | DIGI TRANSISTOR | | |
| Q883 | or UN2211-X | TRANSISTOR | | |
| Q976 | RT1N141C-X | DIGI TRANSISTOR | | |
| Q976 | or UN2211-X | TRANSISTOR | | |
| Q977 | ISA1530AC1/R/-X | TRANSISTOR | | |
| Q977 | or 2SB709A/QR/-X | TRANSISTOR | | |
| D331 | MC2836-X | DIODE | | |
| D331 | or MA152WA-X | DIODE | | |
| D341 | NAF0029-001X | DIODE | V | |
| D351 | NAF0029-001X | DIODE | V | |
| D501 | 1A3G-T1 | SI DIODE | | |
| D711 | MA8062/M/-X | Z DIODE | | AR390J |
| D711 | or UDZW6.2B-X | Z DIODE | | AR390J |
| D712 | MA111-X | SI DIODE | | |
| D712 | or 1SS355W-X | DIODE | | |
| D713 | MA8056/M/-X | Z DIODE | | |
| D713 | or UDZW5.6B-X | Z DIODE | | |
| D715 | MA8062/M/-X | Z DIODE | | |
| D715 | or UDZW6.2B-X | Z DIODE | | |
| D716 | MA8062/M/-X | Z DIODE | | |
| D716 | or UDZW6.2B-X | Z DIODE | | |
| D717 | MA8062/M/-X | Z DIODE | | |
| D717 | or UDZW6.2B-X | Z DIODE | | |
| D718 | MA8062/M/-X | Z DIODE | | |
| D718 | or UDZW6.2B-X | Z DIODE | | |
| D782 | MA111-X | SI DIODE | | |
| D782 | or 1SS355W-X | DIODE | | |
| D784 | MA8100/M/-X | Z DIODE | | |
| D784 | or UDZW10B-X | Z DIODE | | |
| D785 | MA111-X | SI DIODE | | |
| D785 | or 1SS355W-X | DIODE | | |
| D786 | MA111-X | SI DIODE | | AR390J,G3 40J,G444UI, G445U,G44 5UN,G445U T,G445UH, G446U,G44 6UN,G446U T,G446UH |

| △ Symbol No. | Part No. | Part Name | Description | Local |
|--------------|-----------------|-------------|--------------|---------------------------------------------------------------------------------------------------------------|
| D786 | or 1SS355W-X | DIODE | | AR390J,G3 40J,G444UI, G445U,G44 5UN,G445U T,G445UH, G446U,G44 6UN,G446U T,G446UH S25J |
| D786 | 1SS380-X | SI DIODE | | |
| D787 | MA111-X | SI DIODE | | |
| D787 | or 1SS355W-X | DIODE | | |
| D851 | MA22D23-X | SB DIODE | | G444UI,G44 5U,G445UN ,G445UT,G4 45UH,G446 U,G446UN, G446UT,G4 46UH |
| D851 | or CRS03-W | SB DIODE | | G444UI,G44 5U,G445UN ,G445UT,G4 45UH,G446 U,G446UN, G446UT,G4 46UH |
| D851 | or RB160M-30-X | SB DIODE | | G444UI,G44 5U,G445UN ,G445UT,G4 45UH,G446 U,G446UN, G446UT,G4 46UH |
| D852 | MA22D39-X | SB DIODE | | G444UI,G44 5U,G445UN ,G445UT,G4 45UH,G446 U,G446UN, G446UT,G4 46UH |
| △ D901 | 1N5401-F64 | SI DIODE | | |
| △ D901 | or 1N5401-TU-15 | SI DIODE | | |
| D971 | MA22D23-X | SB DIODE | | |
| D971 | or CRS03-W | SB DIODE | | |
| D971 | or RB160M-30-X | SB DIODE | | |
| D972 | MA22D39-X | SB DIODE | | |
| C1 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | |
| C2 | NDC31HJ-7R0X | C CAPACITOR | 7pF 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-2R0X | C CAPACITOR | 2pF 50V J | |
| C7 | 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-120X | C CAPACITOR | 12pF 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 | |
| C34 | NDC31HJ-5R6X | C CAPACITOR | 5.6pF 50V J | |
| C120 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C161 | QTE1H57-105Z | E CAPACITOR | 1uF 50V | |
| C163 | QTE1H57-105Z | E CAPACITOR | 1uF 50V | |
| C164 | QTE1H57-105Z | E CAPACITOR | 1uF 50V | |
| C165 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C166 | QTE1H57-105Z | E CAPACITOR | 1uF 50V | |
| C167 | NCB31AK-474X | C CAPACITOR | 0.47uF 10V K | |
| C168 | NCB31AK-474X | C CAPACITOR | 0.47uF 10V K | |
| C169 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C171 | QTE1H57-105Z | E CAPACITOR | 1uF 50V | |

| △ Symbol No. | Part No. | Part Name | Description | Local | △ Symbol No. | Part No. | Part Name | Description | Local |
|--------------|----------------|--------------|---------------|--------|--------------|--------------|-------------|---------------|------------------------------------------------------|
| C173 | QTE1H57-105Z | E CAPACITOR | 1uF 50V | | C592 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C174 | QTE1H57-105Z | E CAPACITOR | 1uF 50V | | C700 | NDC31HJ-121X | C CAPACITOR | 120pF 50V J | |
| C175 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | | C703 | NDC31HJ-220X | C CAPACITOR | 22pF 50V J | |
| C177 | NCB31AK-474X | C CAPACITOR | 0.47uF 10V K | | C704 | NDC31HJ-220X | C CAPACITOR | 22pF 50V J | |
| C178 | NCB31AK-474X | C CAPACITOR | 0.47uF 10V K | | C705 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C180 | QTE1C57-107Z | E CAPACITOR | 100uF 16V | | C706 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C181 | QTE1C57-106Z | E CAPACITOR | 10uF 16V | | C707 | QEKJ1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C301 | QFV91HJ-474Z | MF CAPACITOR | 0.47uF 50V J | | C708 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C302 | QFV91HJ-474Z | MF CAPACITOR | 0.47uF 50V J | | C709 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C303 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | | C710 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | AR390J |
| C304 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | | C711 | QTE0J57-476Z | E CAPACITOR | 47uF 6.3V | |
| C306 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | | C712 | NCB31EK-103X | C CAPACITOR | 0.01uF 25V K | |
| C307 | QEKJ1CM-476Z | E CAPACITOR | 47uF 16V M | | C714 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C311 | QFV91HJ-474Z | MF CAPACITOR | 0.47uF 50V J | | C715 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C312 | QFV91HJ-474Z | MF CAPACITOR | 0.47uF 50V J | | C717 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C313 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | | C718 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C314 | NDC31HJ-101X | C CAPACITOR | 100pF 50V J | | C719 | QEKJ1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C315 | QEKJ1HM-225Z | E CAPACITOR | 2.2uF 50V M | | C720 | NCB31AK-474X | C CAPACITOR | 0.47uF 10V K | |
| C316 | QEKJ1HM-475Z | E CAPACITOR | 4.7uF 50V M | | C721 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C317 | QTE1C57-476Z | E CAPACITOR | 47uF 16V | | C722 | QEKJ1HM-475Z | E CAPACITOR | 4.7uF 50V M | |
| C318 | QEKJ1CM-226Z | E CAPACITOR | 22uF 16V M | | C723 | QEKJ1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C319 | NCB31EK-223X | C CAPACITOR | 0.022uF 25V K | | C726 | NDC31HJ-391X | C CAPACITOR | 390pF 50V J | |
| C320 | NCB31EK-223X | C CAPACITOR | 0.022uF 25V K | | C727 | NDC31HJ-391X | C CAPACITOR | 390pF 50V J | |
| C321 | NCB21AK-225X-A | C CAPACITOR | 2.2uF 10V K | | C771 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C383 | QEKJ1HM-475Z | E CAPACITOR | 4.7uF 50V M | AR390J | C784 | QEKJ1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C384 | QEKJ1HM-475Z | E CAPACITOR | 4.7uF 50V M | AR390J | C785 | QEKJ0JM-107Z | E CAPACITOR | 100uF 6.3V M | |
| C385 | QEKJ1HM-475Z | E CAPACITOR | 4.7uF 50V M | | C801 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | |
| C386 | QEKJ1HM-475Z | E CAPACITOR | 4.7uF 50V M | | C852 | NCB31CK-224X | C CAPACITOR | 0.22uF 16V K | G444U,G445U,G445UT,G446U,G446UN,G446UT,G446UH |
| C387 | NCB31HK-152X | C CAPACITOR | 1500pF 50V K | AR390J | C901 | QEZ0870-278 | E CAPACITOR | 2700uF | |
| C388 | NCB31HK-152X | C CAPACITOR | 1500pF 50V K | AR390J | C902 | QERF1HM-225Z | E CAPACITOR | 2.2uF 50V M | |
| C389 | QEKJ1CM-107Z | E CAPACITOR | 100uF 16V M | AR390J | C903 | QEKJ1CM-476Z | E CAPACITOR | 47uF 16V M | |
| C390 | QEKJ1CM-107Z | E CAPACITOR | 100uF 16V M | AR390J | C905 | QEKJ1CM-476Z | E CAPACITOR | 47uF 16V M | |
| C392 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | AR390J | C906 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C393 | QEKJ1CM-476Z | E CAPACITOR | 47uF 16V M | AR390J | C907 | QEKJ1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C501 | QEKJ0JM-227Z | E CAPACITOR | 220uF 6.3V M | | C908 | QEKJ1AM-227Z | E CAPACITOR | 220uF 10V M | |
| C503 | QEKJ1AM-227Z | E CAPACITOR | 220uF 10V M | | C909 | QERF0JM-337Z | E CAPACITOR | 330uF 6.3V M | |
| C504 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | | C910 | QEKJ1EM-106Z | E CAPACITOR | 10uF 25V M | |
| C507 | NCB31EK-473X | C CAPACITOR | 0.047uF 25V K | | C911 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C511 | NCB31HK-222X | C CAPACITOR | 2200pF 50V K | | C912 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C513 | NCB31HK-682X | C CAPACITOR | 6800pF 50V K | | C913 | QEKJ1EM-106Z | E CAPACITOR | 10uF 25V M | |
| C515 | NCB31HK-122X | C CAPACITOR | 1200pF 50V K | | C914 | QEKJ1CM-107Z | E CAPACITOR | 100uF 16V M | |
| C517 | NCB31HK-182X | C CAPACITOR | 1800pF 50V K | | C915 | NCB31HK-104X | C CAPACITOR | 0.1uF 50V K | |
| C518 | NDC31HJ-680X | C CAPACITOR | 68pF 50V J | | C916 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | |
| C521 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | | C917 | QEKJ1EM-106Z | E CAPACITOR | 10uF 25V M | |
| C522 | NCB31CK-224X | C CAPACITOR | 0.22uF 16V K | | C971 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C524 | NDC31HJ-561X | C CAPACITOR | 560pF 50V J | | C982 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | |
| C525 | NCB31CK-223X | C CAPACITOR | 0.022uF 16V K | | C984 | NCB21AK-225X | C CAPACITOR | 2.2uF 10V K | |
| C526 | NCB31CK-223X | C CAPACITOR | 0.022uF 16V K | | R1 | NRSA63J-474X | MG RESISTOR | 470kΩ 1/16W J | |
| C527 | NCB31EK-332X | C CAPACITOR | 3300pF 25V K | | R2 | NRSA63J-474X | MG RESISTOR | 470kΩ /16W J | |
| C528 | NDC31HJ-181X | C CAPACITOR | 180pF 50V J | | R4 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| C529 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | | R5 | NRS181J-220X | MG RESISTOR | 22Ω 1/8W J | |
| C530 | NCB31HK-103X | C CAPACITOR | 0.01uF 50V K | | R6 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| C531 | NCB31AK-334X | C CAPACITOR | 0.33uF 10V K | | R7 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| C532 | NCB31AK-334X | C CAPACITOR | 0.33uF 10V K | | R10 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| C534 | NCB31EK-332X | C CAPACITOR | 3300pF 25V K | | R11 | NRS181J-4R7X | MG RESISTOR | 4.7Ω 1/8W J | |
| C535 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | | R16 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| C536 | QEKJ0JM-476Z | E CAPACITOR | 47uF 6.3V M | | R17 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| C537 | QEKJ0JM-476Z | E CAPACITOR | 47uF 6.3V M | | R81 | NRSA63J-752X | MG RESISTOR | 7.5kΩ 1/16W J | AR390J,G340J,S25J |
| C539 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | | R81 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | G444U,G445U,G445UN,G445UT,G446U,G446UN,G446UT,G446UH |
| C540 | NCS31HJ-681X | C CAPACITOR | 680pF 50V J | | R82 | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J | AR390J,G340J,S25J |
| C541 | NCB31EK-153X | C CAPACITOR | 0.015uF 25V K | | | | | | |
| C542 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | | | | | | |
| C543 | NCB31HK-102X | C CAPACITOR | 1000pF 50V K | | | | | | |
| C544 | NCB31EK-823X | C CAPACITOR | 0.082uF 25V K | | | | | | |
| C545 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | | | | | | |
| C547 | QTE0J57-476Z | E CAPACITOR | 47uF 6.3V | | | | | | |
| C548 | QTE0J57-476Z | E CAPACITOR | 47uF 6.3V | | | | | | |
| C549 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | | | | | | |
| C551 | NCB31EK-104X | C CAPACITOR | 0.1uF 25V K | | | | | | |
| C552 | QEKJ0JM-476Z | E CAPACITOR | 47uF 6.3V M | | | | | | |
| C583 | NDC31HJ-821X | C CAPACITOR | 820pF 50V J | | | | | | |
| C584 | NDC31HJ-821X | C CAPACITOR | 820pF 50V J | | | | | | |
| C585 | QTE1H64-225Z | E CAPACITOR | 2.2uF 50V | | | | | | |
| C586 | QTE1H64-225Z | E CAPACITOR | 2.2uF 50V | | | | | | |
| C587 | NDC31HJ-151X | C CAPACITOR | 150pF 50V J | | | | | | |
| C588 | NDC31HJ-151X | C CAPACITOR | 150pF 50V J | | | | | | |
| C590 | QTE0J57-476Z | E CAPACITOR | 47uF 6.3V | | | | | | |
| C591 | QTE1A57-107Z | E CAPACITOR | 100uF 10V | | | | | | |

| △ Symbol No. | Part No. | Part Name | Description | Local | △ Symbol No. | Part No. | Part Name | Description | Local |
|--------------|--------------|-------------|---------------|--------------------------------------------------------------------|--------------|--------------|-------------|---------------|------------------------------------------------|
| R82 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | G444UI,G445U,G445UT,G445UH,G446U,G446UT,G446UH | R516 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R91 | NRSA63J-752X | MG RESISTOR | 7.5kΩ 1/16W J | AR390J,G340J,S25J | R517 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R91 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | G444UI,G445U,G445UT,G445UH,G446U,G446UT,G446UH | R518 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | |
| R92 | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J | AR390J,G340J,S25J | R519 | NRS181J-203X | MG RESISTOR | 20kΩ 1/8W J | |
| R92 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | G444UI,G445U,G445UT,G445UH,G446U,G446UT,G446UH | R520 | NRS181J-220X | MG RESISTOR | 22Ω 1/8W J | |
| R122 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | | R521 | NRSA63J-105X | MG RESISTOR | 1MΩ 1/16W J | |
| R161 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | | R522 | NRSA63J-221X | MG RESISTOR | 220Ω 1/16W J | |
| R162 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | | R524 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R163 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | | R525 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R164 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | | R526 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R165 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | | R527 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R166 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | | R528 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R167 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | | R529 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R168 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | | R535 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R169 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | | R536 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R170 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | | R537 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R171 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | | R538 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R172 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | | R540 | NRSA63J-303X | MG RESISTOR | 30kΩ 1/16W J | |
| R173 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | | R541 | NRSA63J-393X | MG RESISTOR | 39kΩ 1/16W J | |
| R174 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | | R542 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R305 | NRS181J-102X | MG RESISTOR | 1kΩ 1/8W J | | R543 | NRS181J-102X | MG RESISTOR | 1kΩ 1/8W J | |
| R342 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | | R544 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R343 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | | R545 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| R344 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | | R546 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R352 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | | R547 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R353 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | | R548 | NRSA63J-332X | MG RESISTOR | 3.3kΩ 1/16W J | |
| R354 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | | R549 | NRS181J-562X | MG RESISTOR | 5.6kΩ 1/8W J | |
| R381 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | AR390J | R554 | NRSA63J-4R7X | MG RESISTOR | 4.7Ω 1/16W J | |
| R382 | NRS181J-102X | MG RESISTOR | 1kΩ 1/8W J | AR390J | R556 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R382 | NRS181J-0R0X | MG RESISTOR | 0Ω 1/8W J | G340J,G444UI,G445U,G445UN,G445UT,G445UH,G446U,G446UT,G446UH,H,S25J | R558 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R383 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | | R559 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R384 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | AR390J | R565 | NRS181J-151X | MG RESISTOR | 150Ω 1/8W J | |
| R385 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | AR390J | R566 | NRS181J-100X | MG RESISTOR | 10Ω 1/8W J | |
| R386 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | AR390J | R583 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R387 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | | R584 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R388 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | AR390J | R585 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | |
| R389 | NRSA63J-333X | MG RESISTOR | 33kΩ 1/16W J | AR390J | R586 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | |
| R390 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | AR390J | R587 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| R500 | NRS181J-220X | MG RESISTOR | 22Ω 1/8W J | | R589 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R501 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | | R590 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R502 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | | R591 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R503 | NRSA63J-512X | MG RESISTOR | 5.1kΩ 1/16W J | | R592 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R504 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | | R593 | NRS181J-223X | MG RESISTOR | 22kΩ 1/8W J | |
| R505 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | | R594 | NRSA63J-223X | MG RESISTOR | 22kΩ 1/16W J | |
| R506 | NRSA63J-393X | MG RESISTOR | 39kΩ 1/16W J | | R701 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R507 | NRSA63J-203X | MG RESISTOR | 20kΩ 1/16W J | | R702 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R508 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | | R703 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R509 | NRSA63J-683X | MG RESISTOR | 68kΩ 1/16W J | | R704 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R510 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | | R705 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R511 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | | R708 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | G444UI,G445U,G445UT,G445UH,G446U,G446UT,G446UH |
| R512 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | | R709 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | AR390J,G340J,S25J |
| R513 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | | R712 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R514 | NRSA63J-562X | MG RESISTOR | 5.6kΩ 1/16W J | | R714 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R515 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | | R716 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| | | | | | R717 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| | | | | | R718 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| | | | | | R719 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| | | | | | R720 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| | | | | | R721 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| | | | | | R722 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| | | | | | R723 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| | | | | | R726 | NRSA63J-273X | MG RESISTOR | 27kΩ 1/16W J | |
| | | | | | R727 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| | | | | | R731 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| | | | | | R733 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| | | | | | R736 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| | | | | | R737 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| | | | | | R738 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| | | | | | R740 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| | | | | | R746 | NRS181J-104X | MG RESISTOR | 100kΩ 1/8W J | |
| | | | | | R747 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| | | | | | R748 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |

| △ Symbol No. | Part No. | Part Name | Description | Local |
|--------------|--------------|---------------|---------------|------------------------------------------------------------------|
| R752 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R753 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R754 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R755 | NRS181J-472X | MG RESISTOR | 4.7kΩ 1/8W J | |
| R756 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R757 | NRSA63J-472X | MG RESISTOR | 4.7kΩ 1/16W J | |
| R758 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R764 | NRSA63J-823X | MG RESISTOR | 82kΩ 1/16W J | |
| R770 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | AR390J |
| R770 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | G340J,G444UI,G445U,G445UN,G445UT,G446U,G446UN,G446UT,G446UH,S25J |
| 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 | |
| R774 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R775 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | |
| R779 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R781 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R783 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R802 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R803 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R804 | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J | |
| R807 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R808 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R809 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R810 | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J | |
| R811 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R812 | NRSA63J-104X | MG RESISTOR | 100kΩ 1/16W J | |
| R814 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R819 | NRSA63J-473X | MG RESISTOR | 47kΩ 1/16W J | |
| R851 | NRS181J-103X | MG RESISTOR | 10kΩ 1/8W J | G444UI,G445U,G445UN,G445UT,G446UH,S25J |
| R883 | NRSA63J-682X | MG RESISTOR | 6.8kΩ 1/16W J | |
| R884 | NRSA63J-123X | MG RESISTOR | 12kΩ 1/16W J | |
| R885 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | |
| R901 | QRE142J-102X | C RESISTOR | 1kΩ 1/4W J | |
| R902 | NRSA02J-912X | MG RESISTOR | 9.1kΩ 1/10W J | |
| R903 | NRS181J-472X | MG RESISTOR | 4.7kΩ 1/8W J | |
| R971 | NRS181J-222X | MG RESISTOR | 2.2kΩ 1/8W J | |
| R972 | NRS181J-222X | MG RESISTOR | 2.2kΩ 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 | |
| L2 | NQL093K-1R8X | COIL | 1.8uH K | |
| L3 | QQR1773-001 | COIL | | AR390J,G340J,G444UI,G445U,G445UN,G445UT,G446UH,S25J |
| 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 | |
| L9 | NQL093K-R47X | COIL | 0.47uH K | |
| L120 | NQR0007-002X | FERRITE BEADS | | |
| L121 | NQR0007-002X | FERRITE BEADS | | |
| L122 | NQR0007-002X | FERRITE BEADS | | |
| L701 | QQL244J-4R7Z | P COIL | 4.7uH J | |
| L702 | QQL244J-4R7Z | P COIL | 4.7uH J | |
| L901 | QQR1809-001 | CHOKE COIL | | |
| CN501 | QGB2027MD-26 | CONNECTOR | B-B (1-26) | |
| CN701 | QGZ1601J1-15 | CONNECTOR | (1-15) | |
| CN901 | QNZ0611-001 | 16P CONNECTOR | | |

| △ Symbol No. | Part No. | Part Name | Description | Local |
|--------------|--------------|---------------------------|-------------|------------------------------------------------------------------|
| J1 | QNB0190-001 | CAR ANT JACK | | |
| J321 | QNN0832-001 | PIN JACK | | AR390J |
| J321 | QNN0802-001 | PIN JACK | | G340J,G444UI,G445U,G445UN,G445UT,G446U,G446UN,G446UT,G446UH,S25J |
| J702 | QNS0283-001 | STEERING REMOTE CONNECTOR | | AR390J |
| J801 | QNZ0095-001 | CONNECTOR | | |
| S701 | QSW0648-001Z | TACT SWITCH | | |
| X1 | QAX0928-001Z | CRYSTAL | | |
| X521 | QAX0714-001Z | C RESONATOR | 16.000MHz | |
| 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 |
|--------------|-----------------|-------------|---------------|-------------------------------------------------------------------------|
| IC661 | PTC6526LQ-L | IC | | |
| IC681 | NJL29H380A | REMOCON RCV | | AR390J,G340J,G444UI,G445U,G445UN,G445UT,G446U,G446UN,G446UT,G446UH,S25J |
| IC681 | NJL21H380A | REMOCON RCV | | S25J |
| D630 | LHQ974/LM-X | LED | | |
| D631 | LHQ974/LM-X | LED | | |
| D632 | NECBB205/WPQR/X | LED | | AR390J,G340J,G444UI,G445U,G445UN,G445UT,G446U,G446UN,G446UT,G446UH,S25J |
| D632 | LHQ974/LM-X | LED | | |
| D633 | SML-D12V8W/PQ-X | LED | | |
| D634 | SML-D12V8W/PQ-X | LED | | |
| D635 | SML-D12V8W/PQ-X | LED | | |
| D636 | SML-D12V8W/PQ-X | LED | | |
| D637 | LHQ974/LM-X | LED | | |
| D638 | LHQ974/LM-X | LED | | |
| D639 | LHQ974/LM-X | LED | | |
| D640 | LHQ974/LM-X | LED | | |
| D641 | LHQ974/LM-X | LED | | |
| D642 | LHQ974/LM-X | LED | | |
| D643 | LHQ974/LM-X | LED | | |
| D644 | LHQ974/LM-X | LED | | |
| D645 | LHQ974/LM-X | LED | | |
| D646 | LHQ974/LM-X | LED | | |
| D647 | LHQ974/LM-X | LED | | |
| D648 | LHQ974/LM-X | LED | | |
| D649 | LHQ974/LM-X | LED | | |
| D650 | LHQ974/LM-X | LED | | |
| D651 | LHQ974/LM-X | LED | | |
| D652 | LHQ974/LM-X | LED | | |
| D653 | NSPW310CS/BTUV/ | WHITE LED | | |
| D654 | NSPW310CS/BTUV/ | WHITE LED | | |
| D661 | MA111-X | SI DIODE | | |
| D661 | or 1SS355W-X | DIODE | | |
| D662 | MA8051/M-X | Z DIODE | | |
| D662 | or UDZW5.1B-X | SB DIODE | | |
| C661 | NCB21CK-105X | C CAPACITOR | 1uF 16V K | |
| C662 | NDC31HJ-151X | C CAPACITOR | 150pF 50V J | |
| C663 | NCB31CK-223X | C CAPACITOR | 0.022uF 16V K | |
| C665 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C666 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |
| C682 | NCB31CK-104X | C CAPACITOR | 0.1uF 16V K | |

| Symbol No. | Part No. | Part Name | Description | Local |
|------------|--------------|-------------|---------------|---------------------------------------------------------------------------------------------------|
| R600 | NRSA63J-272X | MG RESISTOR | 2.7kΩ 1/16W J | |
| 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 | |
| R611 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R612 | NRSA63J-821X | MG RESISTOR | 820Ω 1/16W J | |
| R613 | NRSA63J-122X | MG RESISTOR | 1.2kΩ 1/16W J | |
| R614 | NRSA63J-182X | MG RESISTOR | 1.8kΩ 1/16W J | |
| R615 | NRSA63J-272X | MG RESISTOR | 2.7kΩ 1/16W J | |
| R616 | NRSA63J-392X | MG RESISTOR | 3.9kΩ 1/16W J | |
| R617 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |
| R619 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R620 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R630 | NRSA63J-271X | MG RESISTOR | 270Ω 1/16W J | |
| R631 | NRS181J-621X | MG RESISTOR | 620Ω 1/8W J | AR390J,G340 J,G444UI,G44 5U,G445UN,G 445UT,G445U H,G446U,G44 6UN,G446UT, G446UH |

| | | | | |
|------|--------------|-------------|---------------|---------------------------------------------------------------------------------------------------|
| R635 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R637 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R639 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R640 | NRSA02J-0R0X | MG RESISTOR | 0Ω 1/10W J | |
| R641 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R643 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R646 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R647 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R649 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R651 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R653 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | |
| R656 | NRSA63J-181X | MG RESISTOR | 180Ω 1/16W J | AR390J,G340 J,G444UI,G44 5U,G445UN,G 445UT,G445U H,G446U,G44 6UN,G446UT, G446UH |
| R656 | NRS181J-181X | MG RESISTOR | 180Ω 1/8W J | S25J |
| R658 | NRSA63J-132X | MG RESISTOR | 1.3kΩ 1/16W J | AR390J,G340 J,G444UI,G44 5U,G445UN,G 445UT,G445U H,G446U,G44 6UN,G446UT, G446UH |
| R658 | NRSA63J-561X | MG RESISTOR | 560Ω 1/16W J | S25J |
| R659 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | AR390J,G340 J,G444UI,G44 5U,G445UN,G 445UT,G445U H,G446U,G44 6UN,G446UT, G446UH |

| | | | | |
|------|--------------|-------------|---------------|---------------------------------------------------------------------------------------------------|
| R660 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | S25J |
| R661 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | AR390J,G340 J,G444UI,G44 5U,G445UN,G 445UT,G445U H,G446U,G44 6UN,G446UT, G446UH |
| R661 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | S25J |
| R662 | NRSA63J-222X | MG RESISTOR | 2.2kΩ 1/16W J | AR390J,G340 J,G444UI,G44 5U,G445UN,G 445UT,G445U H,G446U,G44 6UN,G446UT, G446UH |
| R662 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | S25J |

| Symbol No. | Part No. | Part Name | Description | Local |
|------------|--------------|-------------|---------------|---------------------------------------------------------------------------------------------------|
| R663 | NRSA63J-184X | MG RESISTOR | 100kΩ 1/16W J | AR390J,G340 J,G444UI,G44 5U,G445UN,G 445UT,G445U H,G446U,G44 6UN,G446UT, G446UH |
| R663 | NRSA63J-394X | MG RESISTOR | 390kΩ 1/16W J | S25J |
| R664 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | S25J |
| R665 | NRSA63J-224X | MG RESISTOR | 220kΩ 1/16W J | |
| R666 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R667 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R668 | NRSA63J-101X | MG RESISTOR | 100Ω 1/16W J | |
| R670 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | S25J |
| R671 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R672 | NRSA63J-102X | MG RESISTOR | 1kΩ 1/16W J | S25J |
| R674 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R676 | NRSA63J-0R0X | MG RESISTOR | 0Ω 1/16W J | |
| R681 | NRSA63J-471X | MG RESISTOR | 470Ω 1/16W J | |
| R682 | NRSA63J-103X | MG RESISTOR | 10kΩ 1/16W J | |

| | | | | |
|-------|---------------|-----------|--------|---------------------------------------------------------------------------------------|
| CJ601 | QGZ1601K1-15S | CONNECTOR | (1-15) | |
| J602 | QNS0215-001 | 3.5 JACK | | AR390J,G340 J |
| J602 | QNS0245-001 | 3.5 JACK | | G444UI,G445 U,G445UN,G4 45UT,G445UH ,G446U,G446 UN,G446UT,G 446UH,S25J |

| | | | | |
|-------|--------------|----------------|--|--|
| JS686 | QSW1219-001 | ROTARY ENCODER | | |
| S601 | NSW0124-001X | TACT SW | | |
| S602 | NSW0124-001X | TACT SW | | |
| S603 | NSW0124-001X | TACT SW | | |
| S604 | NSW0124-001X | TACT SW | | |
| S605 | NSW0124-001X | TACT SW | | |
| S606 | NSW0124-001X | TACT SW | | |
| S607 | NSW0124-001X | TACT SW | | |
| S608 | NSW0124-001X | TACT SW | | |
| S609 | NSW0124-001X | TACT SW | | |
| S610 | NSW0124-001X | TACT SW | | |
| S611 | NSW0124-001X | TACT SW | | |
| S612 | NSW0124-001X | TACT SW | | |
| S613 | NSW0124-001X | TACT SW | | |
| S614 | NSW0124-001X | TACT SW | | |
| S615 | NSW0124-001X | TACT SW | | |
| S616 | NSW0124-001X | TACT SW | | |
| S617 | NSW0124-001X | TACT SW | | |
| S618 | NSW0124-001X | TACT SW | | |
| S619 | NSW0124-001X | TACT SW | | |

CD control board

Block No. [0][3]

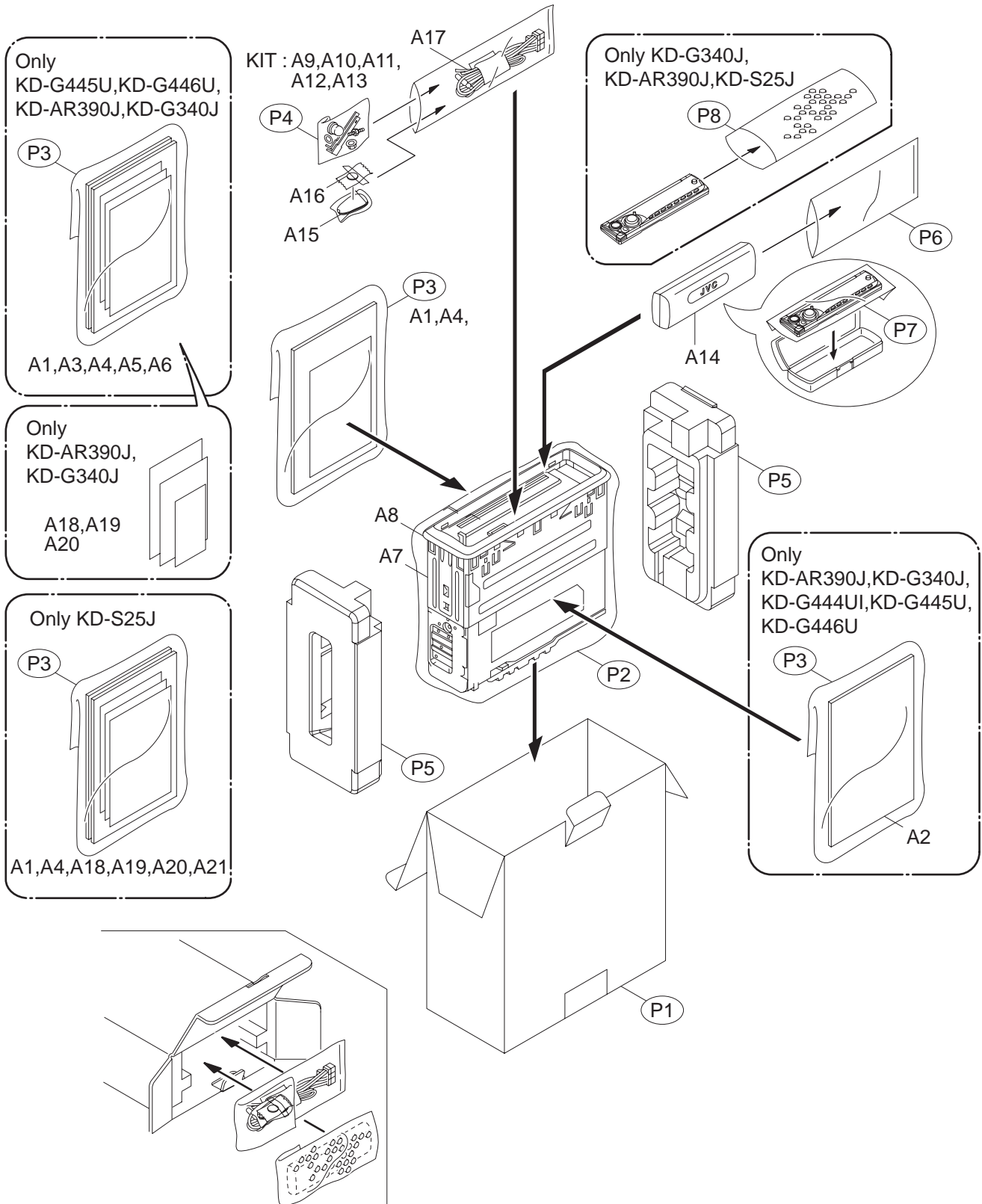
| Symbol No. | Part No. | Part Name | Description | Local |
|------------|-----------------|------------------|---------------|-------|
| Q101 | 2SC3928A/R/-X | TRANSISTOR | | |
| Q201 | 2SC3928A/R/-X | TRANSISTOR | | |
| Q301 | PS1191RB22/BC/X | PHOTO TRANSISTOR | | |
| Q302 | PS1191RB22/BC/X | PHOTO TRANSISTOR | | |
| D101 | AN1105W21/AB/-X | IR LED | | |
| D201 | AN1105W21/AB/-X | IR LED | | |
| R101 | NRSA02J-391X | MG RESISTOR | 390Ω 1/10W 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-153X | MG RESISTOR | 15kΩ 1/16W J | |
| R201 | NRSA02J-391X | MG RESISTOR | 390Ω 1/10W J | |
| R202 | NRSA63J-822X | MG RESISTOR | 8.2kΩ 1/16W J | |
| R203 | NRSA63J-184X | MG RESISTOR | 180kΩ 1/16W J | |
| R204 | NRSA63J-184X | MG RESISTOR | 180kΩ 1/16W J | |

| △ Symbol No. | Part No. | Part Name | Description | Local |
|--------------|---------------|---------------|----------------|-------|
| R205 | NRSA63J-153X | MG RESISTOR | 15kΩ 1/16W J | |
| CN101 | QGB2027LA-26X | CONNECTOR | B-B (1-26) | |
| CN102 | QGF0522F3-15W | CONNECTOR | FFC/FPC (1-15) | |
| SW1 | NSW0291-001X | DETECT SWITCH | | |

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 | GET0487-001A | INST BOOK | ENG FRE SPA | AR390J,G340J |
| A 1 | GET0538-001A | INST BOOK | ENG | G444UI |
| A 1 | GET0537-001A | INST BOOK | ENG THA | G445U,G445UH,G446U,G446UH |
| A 1 | GET0537-004A | INST BOOK | ENG INA | G445UN,G446UN |
| A 1 | GET0537-005A | INST BOOK | ENG CHI(TAIWAN) | G445UT,G446UT |
| A 1 | GET0562-001A | INST BOOK | | S25J |
| A 2 | GET0537-002A | INST BOOK | ENG THA | G445U,G446U |
| A 3 | GET0537-003A | INST BOOK | ENG THA | G445U,G446U |
| A 4 | GET0487-002A | INST.MANUAL | ENG FRE SPA | AR390J,G340J |
| A 4 | GET0538-002A | INST.MANUAL | ENG | G444UI |
| A 4 | GET0537-006A | INST.MANUAL | ENG THA | G445U,G445UH,G446U,G446UH |
| A 4 | GET0537-009A | INST.MANUAL | ENG INA | G445UN,G446UN |
| A 4 | GET0537-010A | INST.MANUAL | ENG CHI(TAIWAN) | G445UT,G446UT |
| A 4 | GET0562-002A | INST.MANUAL | | S25J |
| A 5 | GET0537-007A | INST.MANUAL | ENG THA | G445U,G446U |
| A 6 | GET0537-008A | INST.MANUAL | ENG THA | G445U,G446U |
| A 7 | GE20137-003A | MOUNTING SLEEVE | | |
| A 8 | GE20235-001A | TRIM PLATE | | AR390J,G446U,G446UN,G446UT,G446UH |
| A 8 | GE20235-002A | TRIM PLATE | | G340J |
| A 8 | GE20235-005A | TRIM PLATE | | G444UI,G445U,G445UN,G445UT,G445UH |
| A 8 | GE20235-004A | TRIM PLATE | | S25J |
| A 9 | VKZ4027-202 | PLUG NUT | | |
| A 10 | GE40426-002A | MOUNT BOLT | | |
| A 11 | VKZ4328-003 | LOCK NUT | | |
| A 12 | QYWWS53A008ZA | WASHER | 0mm/5.3mm x | |
| A 13 | GE40130-002A | HOOK | (x2) | |
| A 14 | GE32320-001A | HARD CASE ASSY | | G444UI,G445U,G445UN,G445UT,G445UH, G446U,G446UN,G446UT,G446UH |
| A 15 | RM-RK50C | REMOCON | | |
| A 16 | ----- | BATTERY | 3V | |
| A 17 | QAM1048-001 | 16P CORD ASSY | | AR390J,G340J,S25J |
| A 17 | QAM1047-001 | 16P CORD ASSY | | G444UI,G445U,G445UN,G445UT,G445UH, G446U,G446UN,G446UT,G446UH |
| A 18 | ----- | WARRANTY CARD | BT-52007-1 | AR390J,G340J |
| A 18 | ----- | WARRANTY CARD | BT-52008-1 | S25J |
| A 19 | ----- | WARRANTY CARD | BT-51029-3 | AR390J |
| A 19 | ----- | WARRANTY CARD | BT-51018-5 | G340J,S25J |
| A 20 | BT-51041-1 | REGIS. CARD | | AR390J,G340J |
| A 20 | BT-51044-1 | REGIS. CARD | | S25J |
| A 21 | GET0222-001A | TAG CAUTION SH | | S25J |
| KIT | SRW-MA372 | SCREW PARTS KIT | A9 A10 A11 A12 A13 | |
| P 1 | GE32889-003A | CARTON | | AR390J |
| P 1 | GE32946-002A | CARTON | | G340J |
| P 1 | GE33194-001A | CARTON | | G444UI |
| P 1 | GE33188-001A | CARTON | | G445U,G445UN,G445UT,G445UH |
| P 1 | GE33191-001A | CARTON | | G446U,G446UN,G446UT,G446UH |
| P 1 | GE33349-001A | CARTON | | S25J |
| P 2 | QPC03004315PB | POLY BAG | 30cm x 43cm | |
| P 3 | FSPG4002-001 | POLY BAG | | G340J,G444UI,G445UN,G445UT,G445UH, G446UN,G446UT,G446UH,S25J |
| P 3 | FSPG4002-001 | POLY BAG | (x2) | G445U,G446U |
| P 4 | QPA00801205 | POLY BAG | 8cm x 12cm | |
| P 5 | GE10218-001A | EPS CUSHION | | AR390J,G340J,G444UI,G445U,G445UN,G 445UT,G445UH,G446U,G446UN,G446UT, G446UH |
| P 5 | GE10237-001A | CUSHION | | S25J |
| P 6 | QPA01003003 | POLY BAG | 10cm x 30cm | G444UI,G445U,G445UN,G445UT,G445UH, G446U,G446UN,G446UT,G446UH |
| P 7 | QPC01002515 | POLY BAG | 10cm x 25cm | G444UI,G445U,G445UN,G445UT,G445UH, G446U,G446UN,G446UT,G446UH |
| P 8 | GE40276-003A | AIR BUBBLE BAG | | AR390J,G340J,S25J |

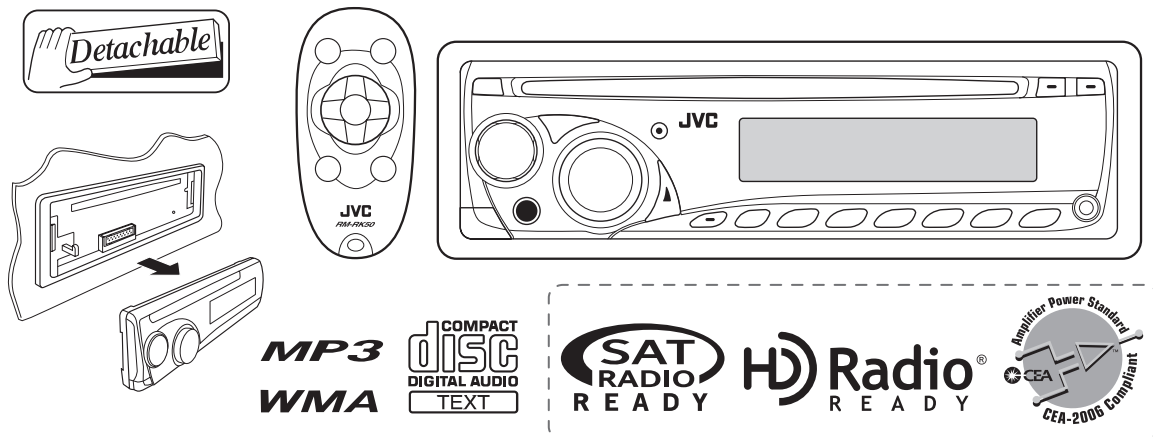
JVC

SCHEMATIC DIAGRAMS

CD RECEIVER

**KD-AR390J, KD-G340J, KD-G444UI
KD-G445U, KD-G445UN, KD-G445UT
KD-G445UH, KD-G446U, KD-G446UN
KD-G446UT, KD-G446UH, KD-S25J**

DVD-ROM No.SML2008Q1



only for KD-AR390/KD-G340/KD-S25

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

Contents

| | |
|-----------------------------------|----------|
| Block diagram | 2-1 |
| Standard schematic diagrams | 2-2 |
| Printed circuit boards | 2-5 to 6 |

Safety precaution

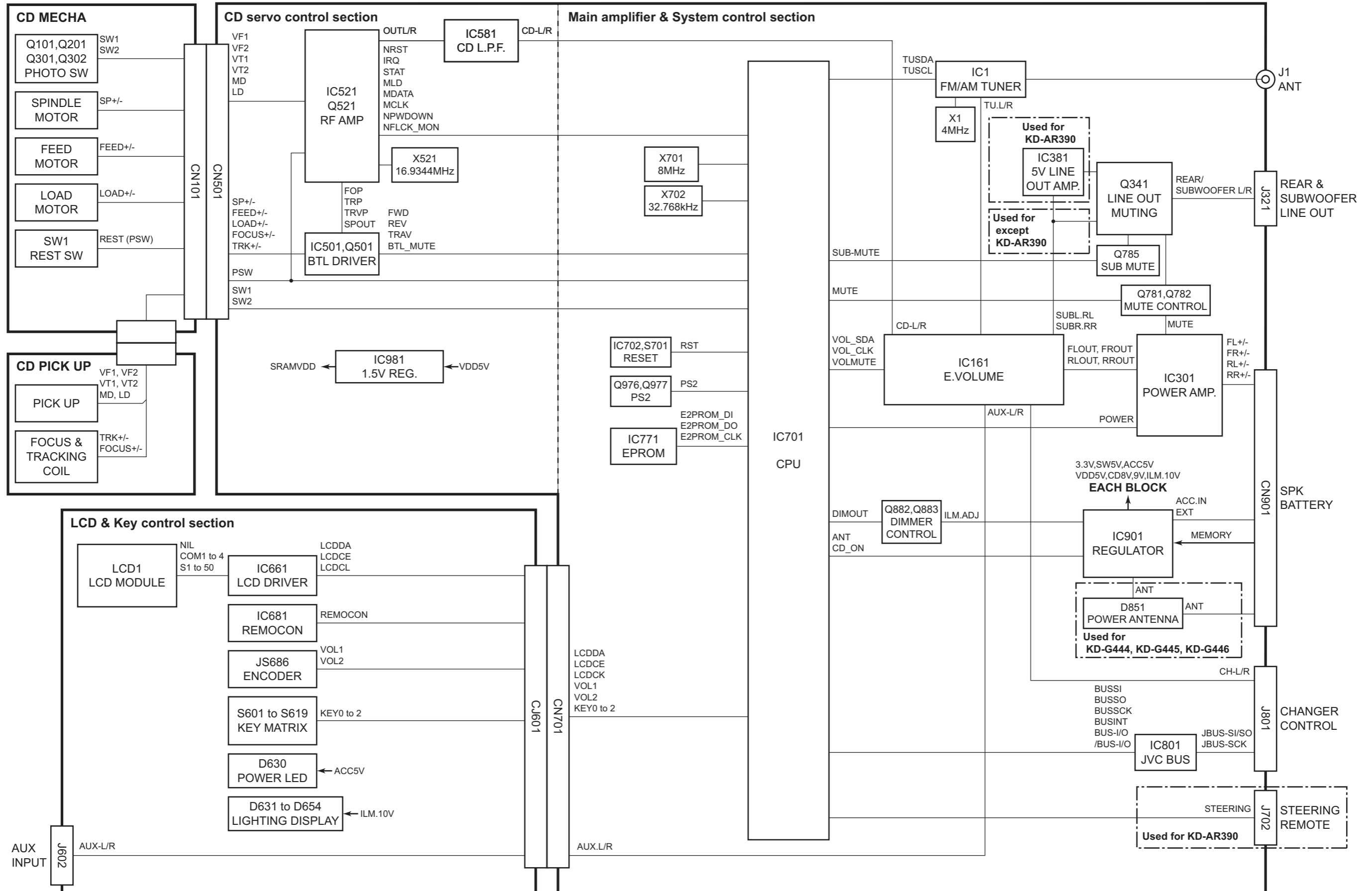


CAUTION Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of performing repair of this system.

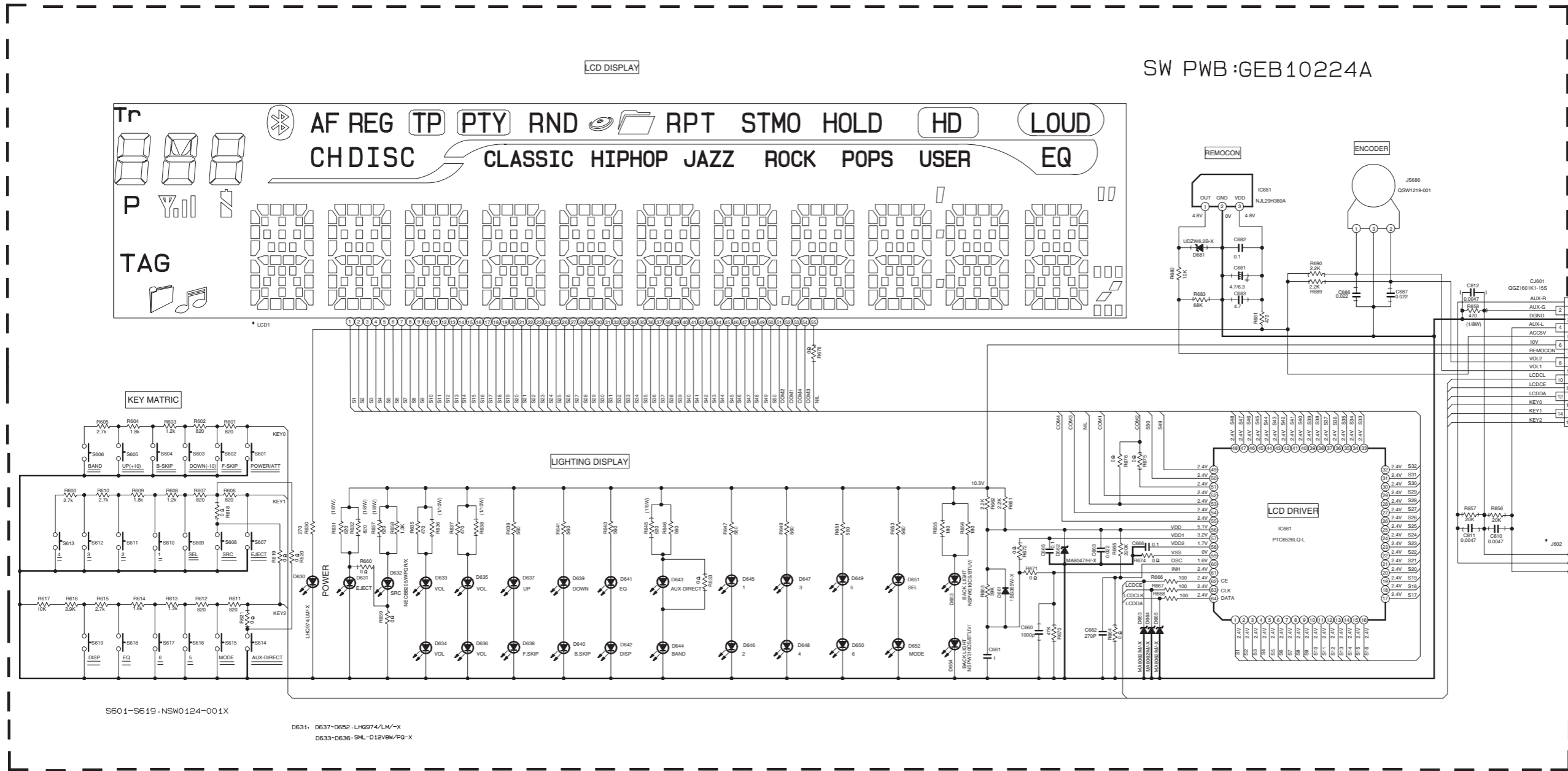


CAUTION Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

Block diagram



■ LCD & Key control section



S601-S619 · NSW0124-001X

D631, D637-D652 · LH974/LM/-X
D633-D636 · SML-D12VBN/PQ-X

*REMARK(S) :

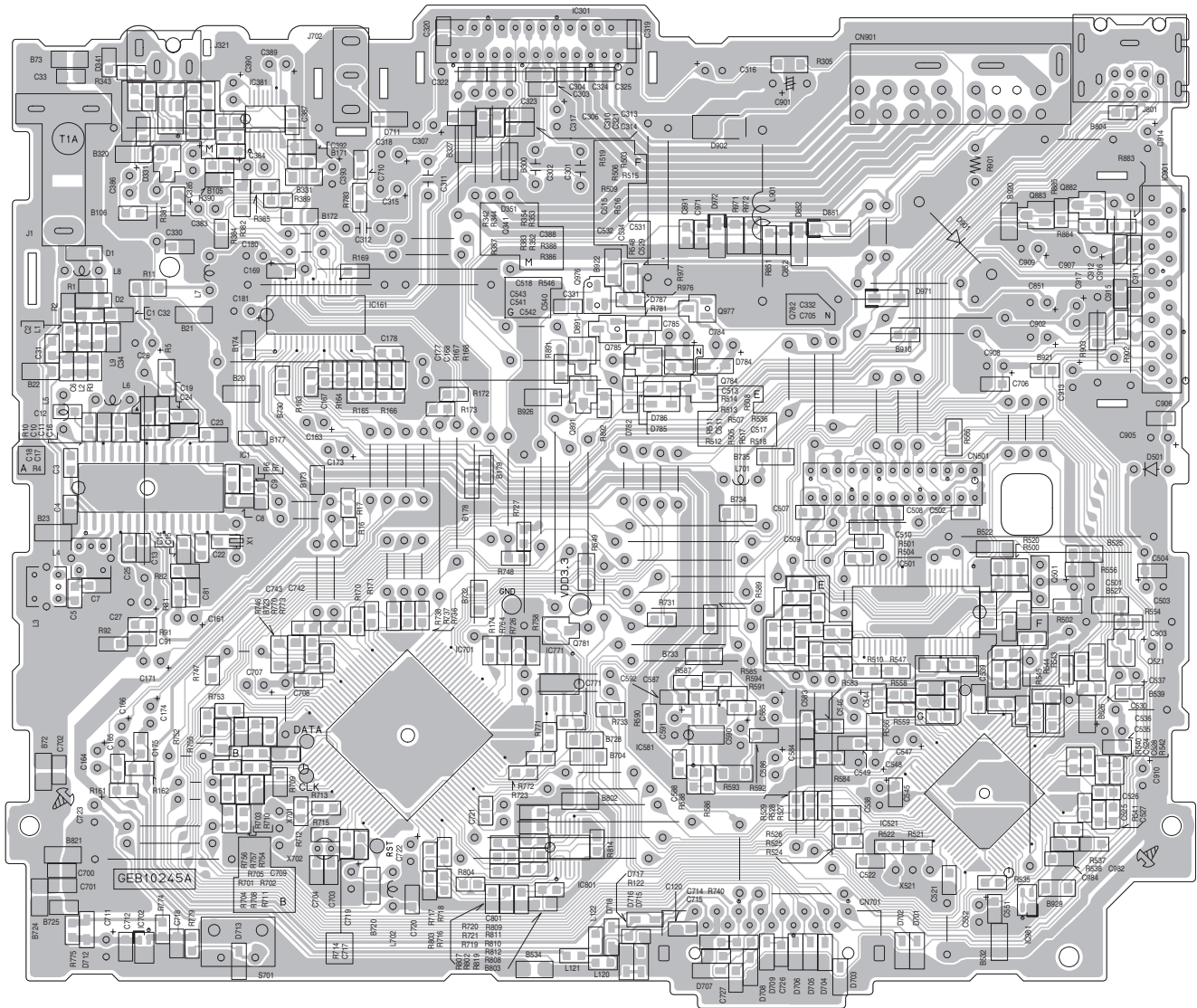
| | |
|--------------------|-----------------------------|
| KD-AR390/JKD-6340J | KD-6444U/JKD-6445U/KD-6446U |
| LCD1 | GLD0518-001 |
| J602 | QNS0215-001 |

- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
 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 μF (P=PF)
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V)
T --- TANTAL CAPACITOR.
 3. COMPONENTS IN () INDICATE NOT USE.

Printed circuit boards

- **Main board**

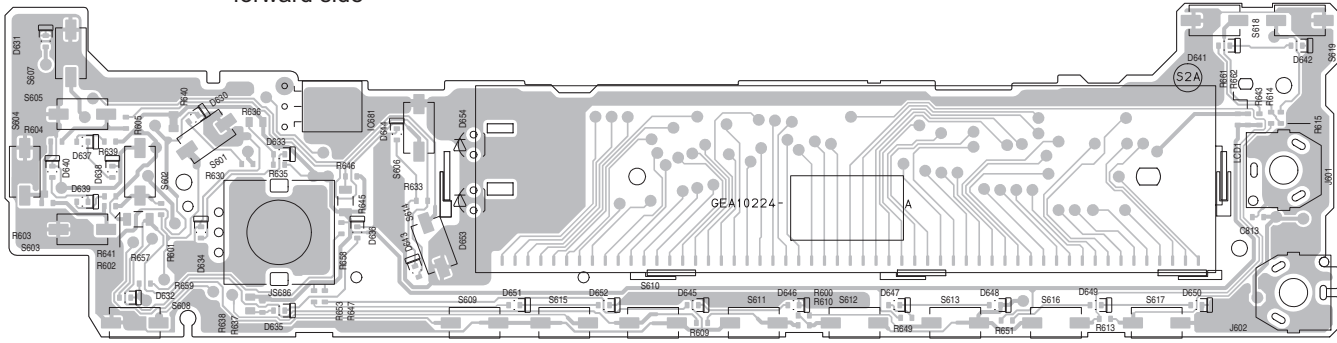
| |
|------------------------------------------------------------------------------------------|
| Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade) |
| Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade) |



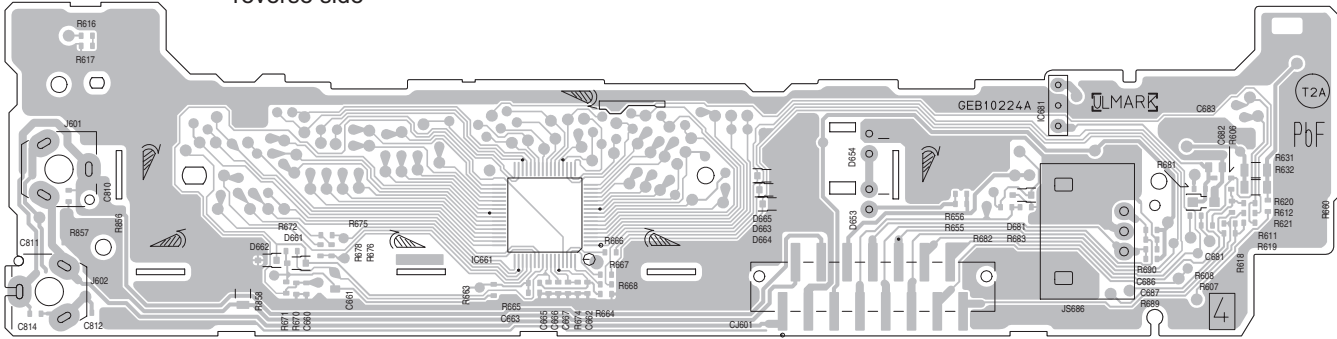
■ **Switch board** Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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

forward side

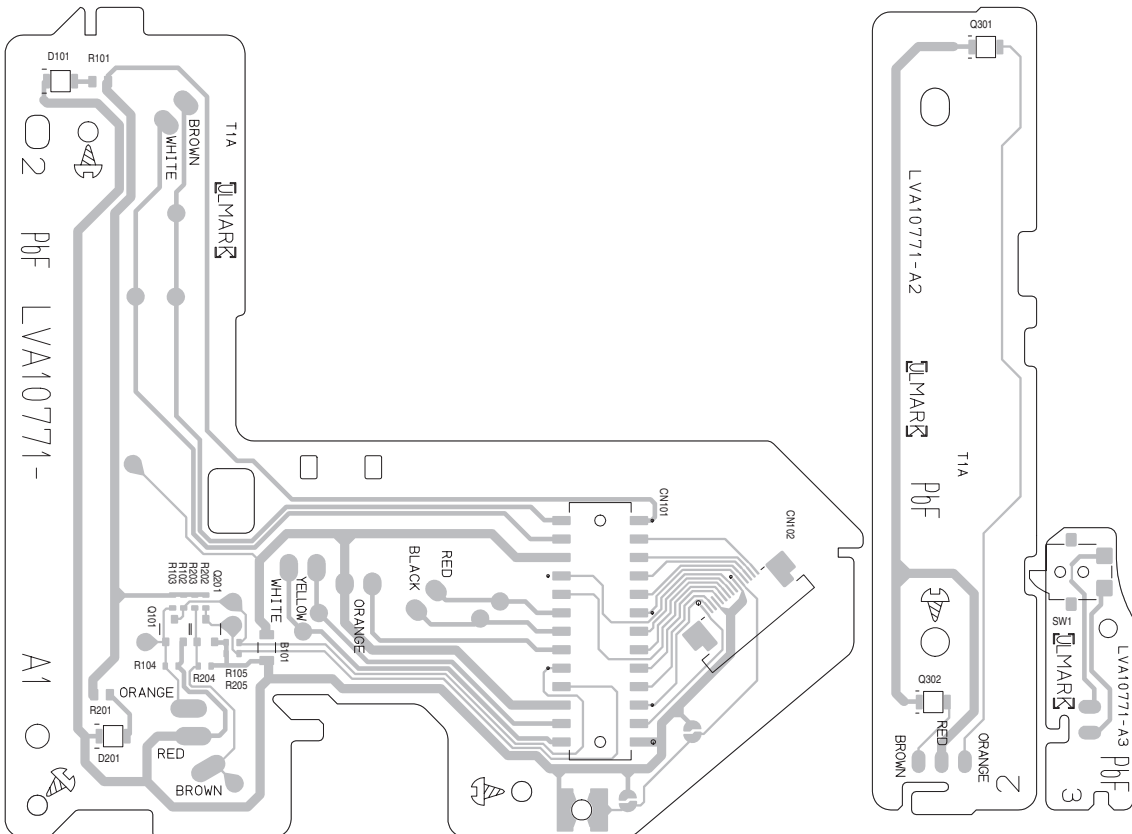


reverse side



■ **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)



< MEMO >

JVC

Victor Company of Japan, Limited

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

(No.MA376SCH<Rev.002>)



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