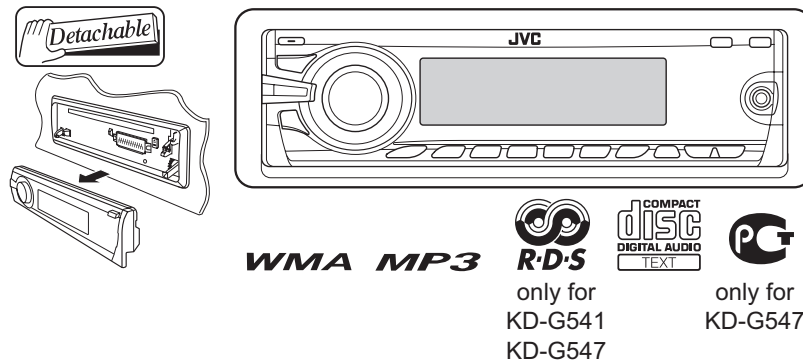


# JVC

## SERVICE MANUAL

### CD RECEIVER

**KD-G541E, KD-G541EX, KD-G541EY,  
KD-G541EU, KD-G544UI, KD-G545U,  
KD-G545UN, KD-G545UT, KD-G545UH,  
KD-G546U, KD-G546UN, KD-G546UT,  
KD-G546UH, KD-G547EE**



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)

### TABLE OF CONTENTS

1	PRECAUTION.....	1-5
2	SPECIFIC SERVICE INSTRUCTIONS.....	1-8
3	DISASSEMBLY.....	1-8
4	ADJUSTMENT.....	1-24
5	TROUBLESHOOTING.....	1-25

# SPECIFICATION

**KD-G541**

<b>AUDIO AMPLIFIER SECTION</b>		
Maximum Power Output	Front/Rear	50 W per channel
Continuous Power Output (RMS)	Front/Rear	19 W per channel into 4 $\Omega$ 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance		4 $\Omega$ (4 $\Omega$ to 8 $\Omega$ allowance)
Tone Control Range	Bass	$\pm 12$ dB at 60 Hz
	Middle	$\pm 12$ dB at 1 kHz
	Treble	$\pm 12$ dB at 7.5 kHz
Frequency Response		40 Hz to 20 000 Hz
Signal-to-Noise-Ratio		70 dB
Line-Out Level/Impedance		2.5 V/20 k $\Omega$ load (full scale)
Output Impedance		1 k $\Omega$
Subwoofer-Out Level/Impedance		2.5 V/20 k $\Omega$ load (full scale)
Other Terminal		CD changer jack AUX (auxiliary) input jack Steering wheel remote input
<b>TUNER SECTION</b>		
Frequency Range	FM	87.5 MHz to 108.0 MHz
	AM	(MW) 522 kHz to 1 620 kHz (LW) 144 kHz to 279 kHz
FM Tuner	Usable Sensitivity	11.3 dBf (1.0 $\mu$ V/75 $\Omega$ )
	50 dB Quieting Sensitivity	16.3 dBf (1.8 $\mu$ V/75 $\Omega$ )
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	30 dB
MW Tuner	Sensitivity/Selectivity	20 $\mu$ V/35 dB
LW Tuner	Sensitivity	50 $\mu$ V
<b>CD PLAYER SECTION</b>		
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
<b>GENERAL</b>		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to + 40°C
Dimensions (W × H × D) (approx.)	Installation Size	182 mm × 52 mm × 160 mm
	Panel Size	188 mm × 58 mm × 13 mm
Mass		1.4 kg (excluding accessories)

Design and specifications are subject to change without notice.

**KD-G544/KD-G545/KD-G546**

<b>AUDIO AMPLIFIER SECTION</b>		
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 at 60 Hz
	Middle	±12 dB at 1 kHz
	Treble	±12 dB at 7.5 kHz
Frequency Response		40 Hz to 20 000 Hz
Signal-to-Noise-Ratio		70 dB
Line-Out Level/Impedance		2.5 V/20 kΩ load (full scale)
Subwoofer-Out Level/Impedance		2.5 V/20 kΩ load (full scale)
Output Impedance		1 kΩ
Other Terminal		CD changer jack, AUX (auxiliary) input jack
<b>TUNER SECTION</b>		
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
<b>CD PLAYER SECTION</b>		
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
<b>GENERAL</b>		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to + 40°C
Dimensions (W × H × D) (approx.)	Installation Size	182 mm × 52 mm × 160 mm
	Panel Size	188 mm × 58 mm × 6 mm
Mass		1.4 kg (excluding accessories)

Design and specifications are subject to change without notice.


**KD-G547**


<b>AUDIO AMPLIFIER SECTION</b>		
Maximum Power Output	Front/Rear	50 W per channel
Continuous Power Output (RMS)	Front/Rear	19 W per channel into 4 $\Omega$ 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance		4 $\Omega$ (4 $\Omega$ to 8 $\Omega$ allowance)
Tone Control Range	Bass	$\pm 12$ dB at 60 Hz
	Middle	$\pm 12$ dB at 1 kHz
	Treble	$\pm 12$ dB at 7.5 kHz
Frequency Response		40 Hz to 20 000 Hz
Signal-to-Noise-Ratio		70 dB
Line-Out Level/Impedance		2.5 V/20 k $\Omega$ load (full scale)
Output Impedance		1 k $\Omega$
Subwoofer-Out Level/Impedance		2.5 V/20 k $\Omega$ load (full scale)
Other Terminal		AUX (auxiliary) input jack
<b>TUNER SECTION</b>		
Frequency Range	FM1/FM2	87.5 MHz to 108.0 MHz
	FM3	65.00 MHz to 74.00 MHz
	AM	(MW) 522 kHz to 1 620 kHz (LW) 144 kHz to 279 kHz
FM Tuner	Usable Sensitivity	11.3 dBf (1.0 $\mu$ V/75 $\Omega$ )
	50 dB Quieting Sensitivity	16.3 dBf (1.8 $\mu$ V/75 $\Omega$ )
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	30 dB
MW Tuner	Sensitivity/Selectivity	20 $\mu$ V/35 dB
LW Tuner	Sensitivity	50 $\mu$ V
<b>CD PLAYER SECTION</b>		
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
<b>GENERAL</b>		
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 $\times$ H $\times$ D) (approx.)	Installation Size	182 mm $\times$ 52 mm $\times$ 160 mm
	Panel Size	188 mm $\times$ 58 mm $\times$ 13 mm
Mass		1.4 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.

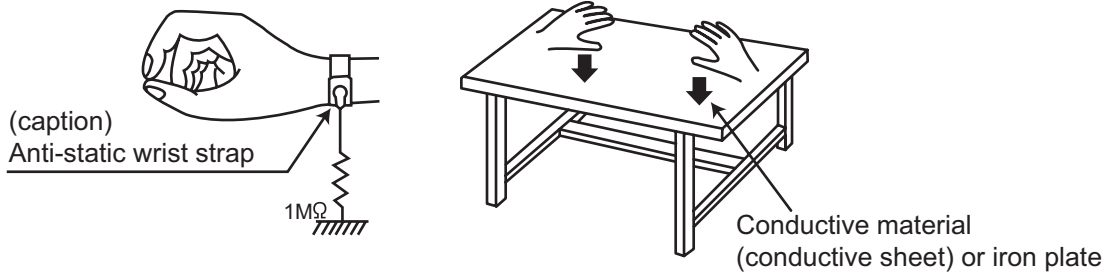
Be careful to use proper grounding in the area where repairs are being performed.

(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.

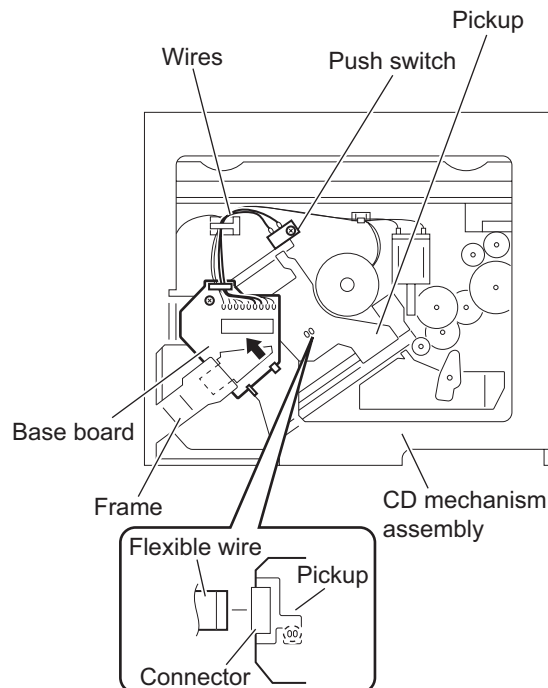
## 1.3 Handling the traverse unit (optical pickup)

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

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

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

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

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

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



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

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

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

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

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

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

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

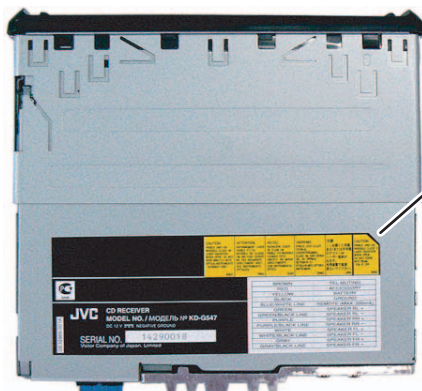
注意：打开盖板可能会产生可见或不可见的 1M 级辐射。不要使用光学仪器直接进行窥视。

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

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

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

## REPRODUCTION AND POSITION OF LABELS and PRINT WARNING LABEL and PRINT



<b>CAUTION</b> VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC30825-1:2001 (ENG)	<b>ATTENTION</b> RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	<b>AVISO</b> RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTA ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	<b>WARNING</b> SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	<b>注意</b> ここを覗くと可視 及び/または不可視 のクラス1M レーザー放射が 出ます。 光学装置で直接 覗かないでください。 LPN	<b>CAUTION</b> VISIBLE AND/OR INVISIBLE CLASS I LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDM 21 CFI (ENG) LV44803-003A
--	--	---	---	---	--

## 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-G343)

#### 3.1.1 Removing the FRONT CHASSIS assembly (See Fig.1, 2)

- (1) Remove the two screws **A** attaching the FRONT CHASSIS assembly. (See Fig.1)
- (2) Remove the two screws **B** attaching the both side of the FRONT CHASSIS assembly.(See Fig.2)
- (3) Disengage the four hooks **a** engaged the both side of the FRONT CHASSIS assembly. (See Fig.2)

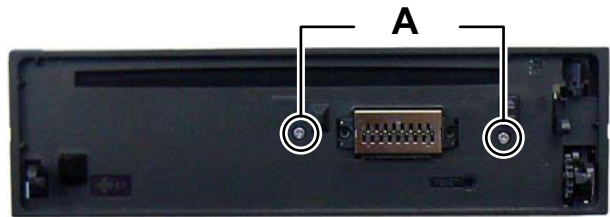


Fig.1

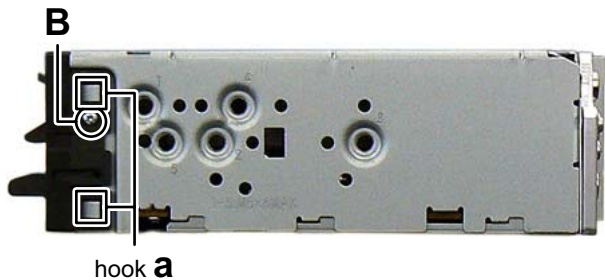


Fig.2

#### 3.1.2 Removing the HEAT SINK (See Fig.3, 4)

- (1) Remove the four screws **C** and the two screws **D** attaching the HEAT SINK. (See Fig.3)
- (2) Remove the two screws **E** and the one screw **F** attaching the HEAT SINK. (See Fig.4)

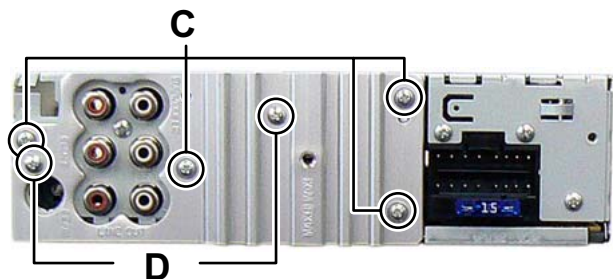


Fig.3

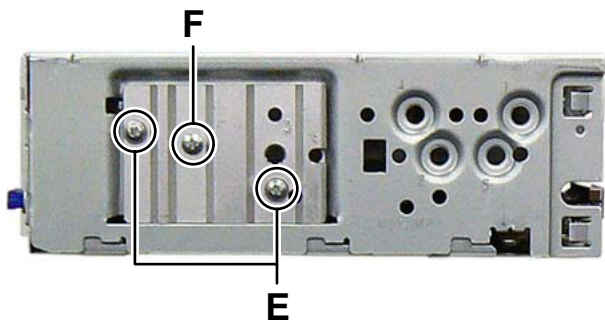


Fig.4



### 3.1.3 Removing the BOTTOM COVER (See Fig.5)

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

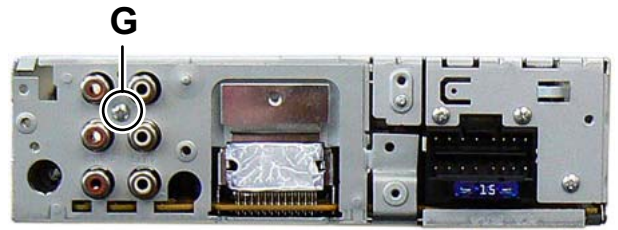


Fig.5

### 3.1.4 Removing the MAIN BOARD assembly (See Fig.6, 7)

- (1) Remove the two screws **H** and the two screws **J** attaching the MAIN BOARD assembly. (See Fig.6, 7)
- (2) Disconnect the connector **CN501** connected to MAIN BOARD assembly and CD MECHANISM assembly. (See Fig.7)

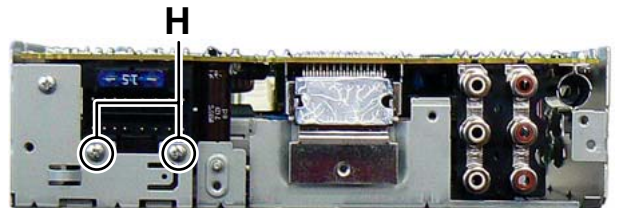


Fig.6

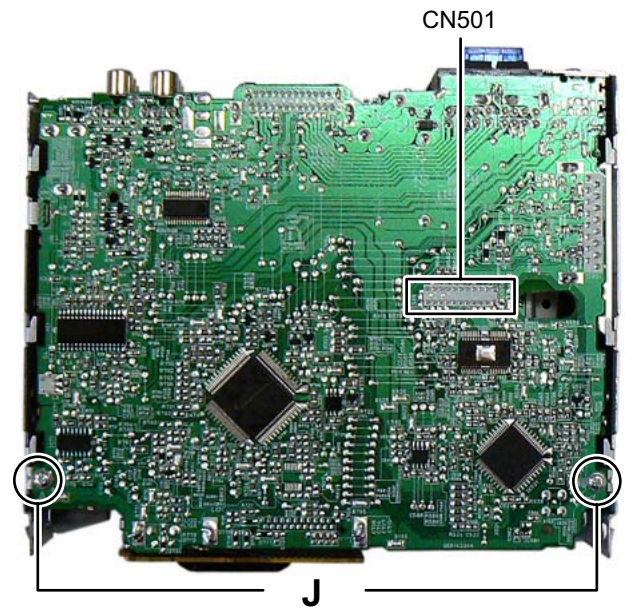


Fig.7

### 3.1.5 Removing the CD MECHANISM assembly (See Fig.8)

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

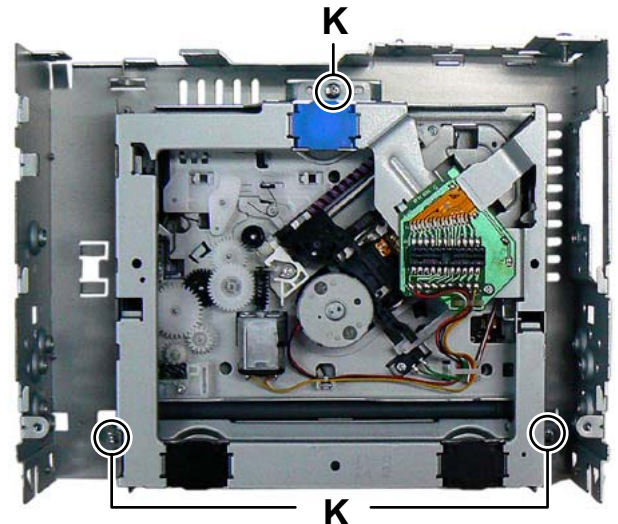


Fig.8

### 3.1.6 Removing the SWITCH BOARD assembly (See Fig.9, 10 )

- (1) Remove the VOLUME KNOB.
- (2) Remove the one screw **L** and the four screws **M** attaching the REAR COVER. (See Fig.9, 10)
- (3) Disengage the nine hooks **b** engaged the REAR COVER. (See Fig.10)



Fig.9

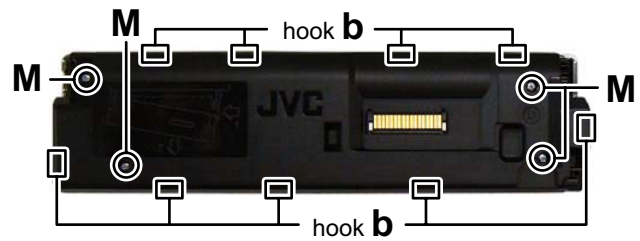


Fig.10

## 3.2 CD mechanism assembly

### 3.2.1 Removing the top cover

(See Figs.1 and 2)

- (1) From the both side of the CD mechanism assembly, remove the four screws **A** attaching the top cover. (See Fig.1.)
- (2) Lift the front side of the top cover and move the top cover backward to release the two joints **a**. (See Figs.1 and 2.)

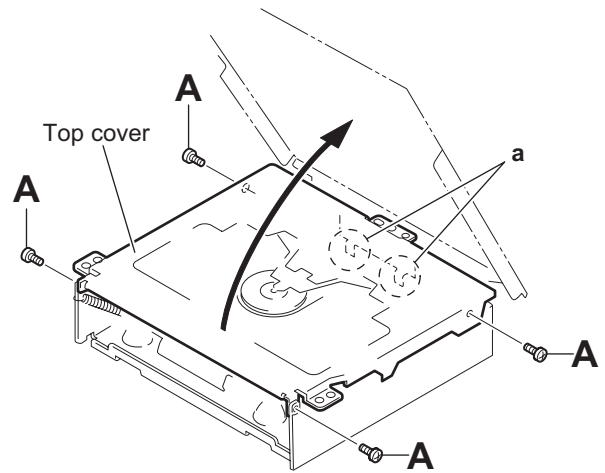


Fig.1

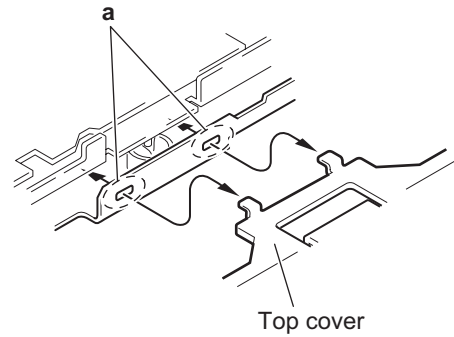


Fig.2

### 3.2.2 Removing the push switch (See Figs.3)

- (1) From the bottom side of the CD mechanism assembly, remove the screw **B** attaching the push switch.
- (2) Take out the push switch from the CD mechanism assembly.

#### Reference:

Remove the wires from soldered sections **b** of the push switch as required.

### 3.2.3 Removing the base board (See Figs.3 and 4)

#### Caution:

Solder the short land **c** before the flexible wire is disconnected from the connector on the pickup. If the flexible wire is disconnected without applying solder, the pickup may be destroyed by static electricity. (See Fig.3.)

- (1) From the bottom side of the CD mechanism assembly, remove the screw **C** attaching the base board. (See Figs.3 and 4.)
- (2) Solder the short land **c** on the pickup. (See Fig.3.)
- (3) Disconnect the flexible wire from the connector on the pickup. (See Fig.3.)
- (4) Remove the base board from the joints **d** of the frame in the direction of the arrow. (See Figs.3 and 4.)

#### Reference:

Remove the wires from the soldered sections **e** on the base board as required. (See Fig.3.)

#### Caution:

When reattaching the base board, be sure to remove solder from the short land **c** after connecting the flexible wire. (See Fig.3.)

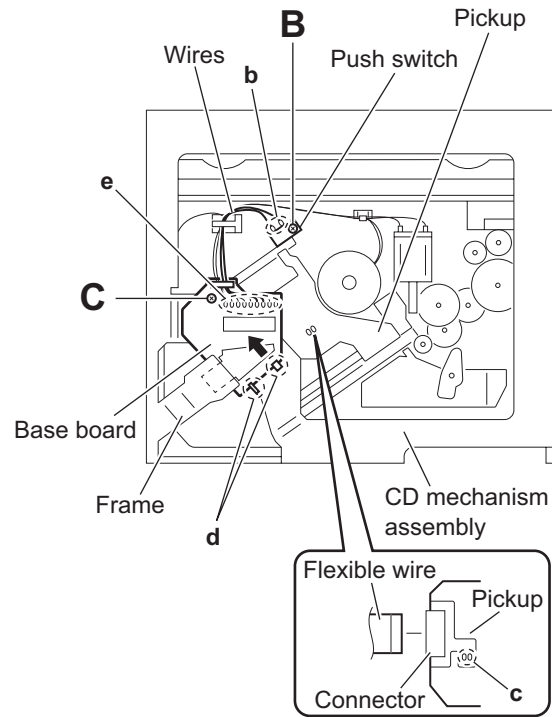


Fig.3

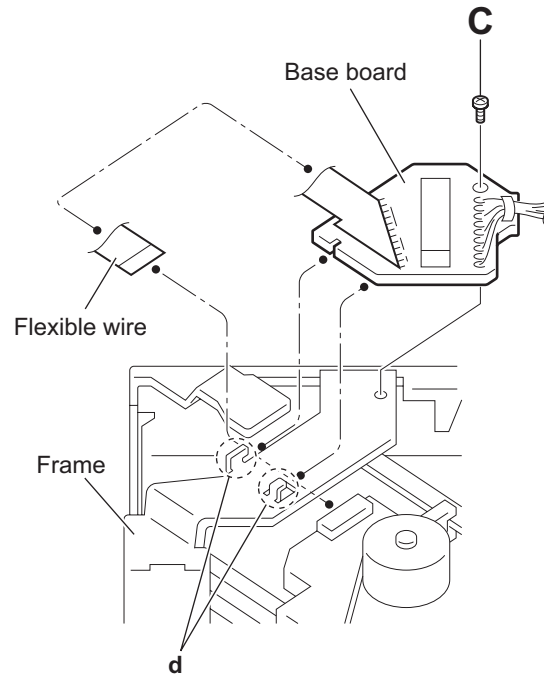


Fig.4

### 3.2.4 Removing the chassis unit (See Figs.5 and 6)

- Remove the top cover and base board.
  - From the top side of the CD mechanism assembly, remove the front suspension springs and rear suspension springs attaching the chassis unit to the frame. (See Fig.5.)
  - Remove the chassis unit from the dampers on the frame in an upward direction. (See Fig.6.)

**Note:**

- Pay attention to misuse and loss of each spring. (See Fig.5.)
- When reassembling, make sure that the three shafts on the underside of the chassis unit are inserted to the dampers certainly. (See Fig.6.)

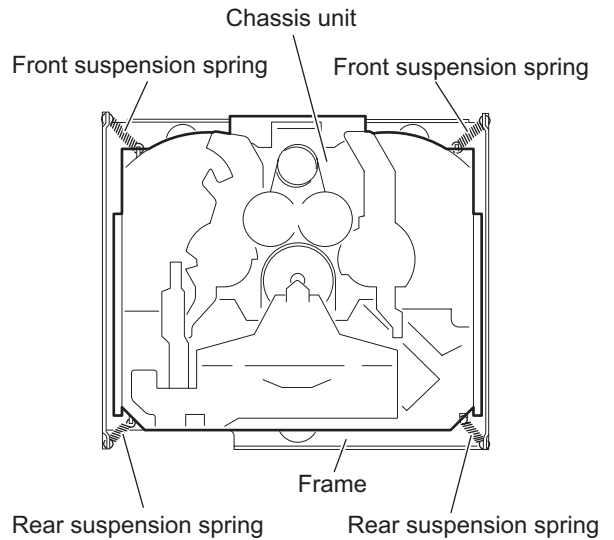


Fig.5

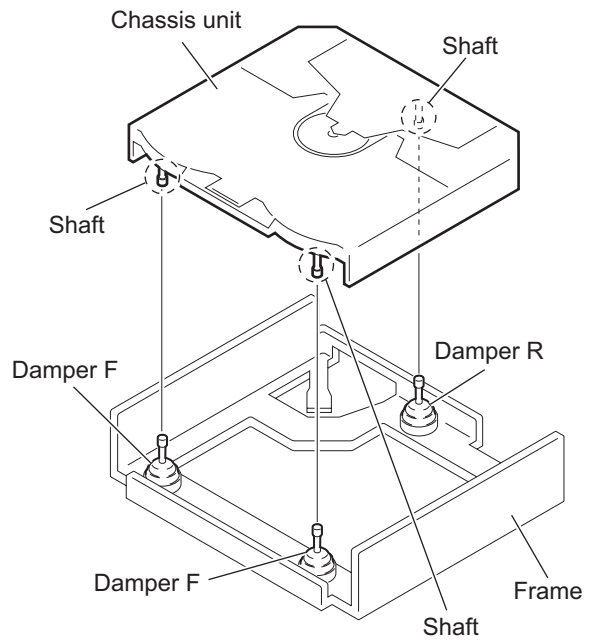
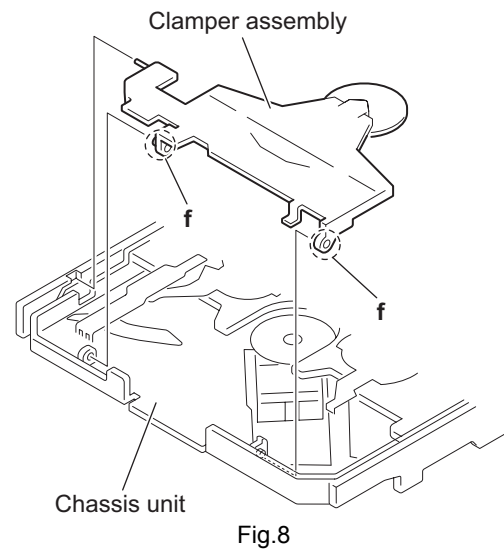
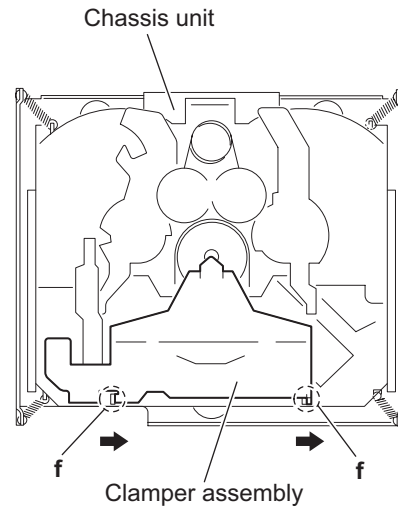


Fig.6

### 3.2.5 Removing the clamper assembly (See Figs.7 and 8)

- Remove the top cover.

Move the clamper assembly in the direction of the arrow to release the joints **f** from the chassis unit.



### 3.2.6 Removing the loading/feed motor assembly (See Fig.9)

- Remove the top cover, base board and chassis unit.  
From the bottom side of the chassis unit, remove the screw **D** and take out the loading/feed motor assembly in the direction of the arrow.

#### Reference:

Remove the wires from the soldered sections **g** of the loading/feed motor assembly as required.

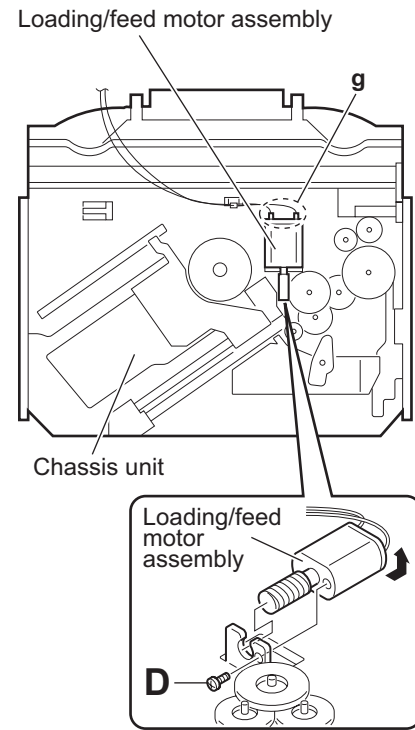


Fig.9

### 3.2.7 Removing the pickup (See Figs.10 to 12)

- Remove the top cover, base board and chassis unit.
  - (1) From the bottom side of the chassis unit, remove the screw **E** attaching the pu. shaft holder B and pull the pu. shaft out of the pu. shaft holder A. (See Fig.10.)
  - (2) Remove the screw **F** attaching the pu. shaft holder A. (See Fig.10.)
  - (3) Take out the pickup with pu. shaft holder A and feed screw assembly from the chassis unit. (See Fig.11.)
  - (4) Remove the section **h** of the pu. shaft holder A in the direction of the arrow. (See Fig.11.)
  - (5) Remove the feed screw assembly from the section **j** of the pickup in the direction of the arrow. (See Fig.11.)
  - (6) Remove the screw **G** attaching the feed screw holder to the pickup. (See Fig.12.)

**Reference:**

Remove the feed nut spring from the feed screw holder as required. (See Fig.12.)

- (7) Release the claw **k** in the direction of the arrow to remove the feed sub holder. (See Fig.12.)

### 3.2.8 Reattaching the pickup (See Figs.10 to 13)

- (1) Reattach the feed sub holder to the pickup. (See Fig.12.)
- (2) Reattach the feed screw holder to the pickup using the screw **G**. (See Fig.12.)
- (3) Reattach the feed screw assembly and pu. shaft holder A to the pickup as before. (See Fig.11.)
- (4) Set the section **m** of the pickup to the rail of the chassis unit at first and attach the pickup to the chassis unit with the screw **F** as before. (See Figs.10 and 13.)
- (5) Attach the pu. shaft to the pickup as before. (See Fig.10.)
- (6) Attach the pu. shaft holder B to the chassis unit with the screw **E** as before. (See Fig.10.)

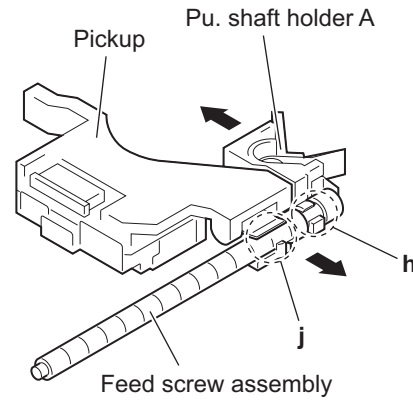


Fig.11

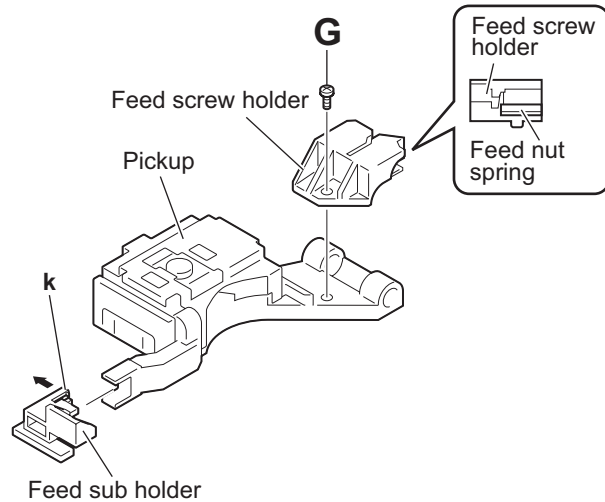


Fig.12

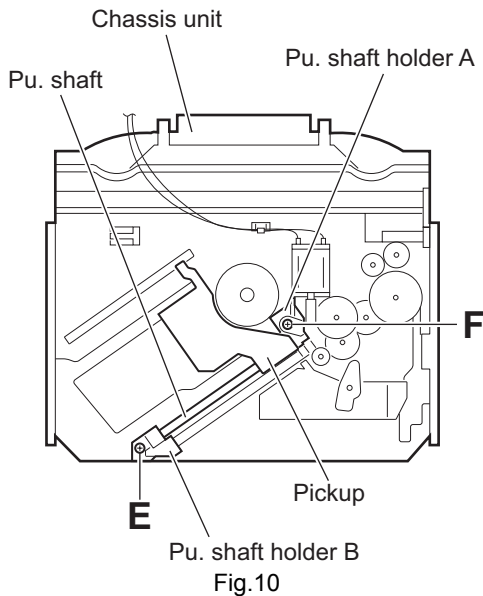


Fig.10

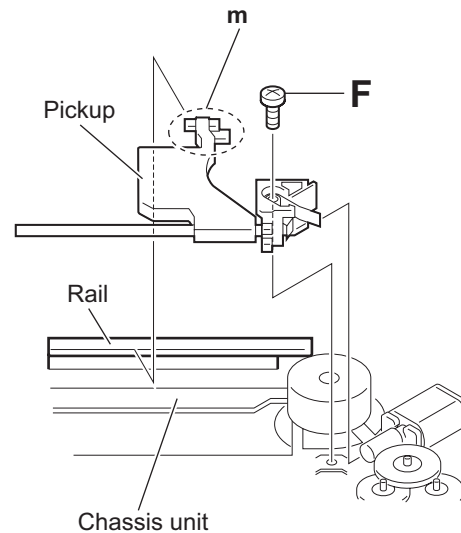


Fig.13



### 3.2.9 Removing the trigger arm (See Fig.14)

- Remove the top cover, base board, chassis unit and clamber assembly.

- From the top side of the chassis unit, remove the trigger arm spring from the sections (n, p).
- From the bottom side of the chassis unit, release the claws q of the trigger arm base in the direction of the arrow to remove them from the sections r of the chassis unit to the other side.

**Note:**

When releasing the claws q, take care not to break them.

- From the top side of the chassis unit, move the select arm R and select lock arm in the direction of the arrow to remove the trigger arm base from the section s in the direction of the arrow.
- Remove the trigger arm from the section t.

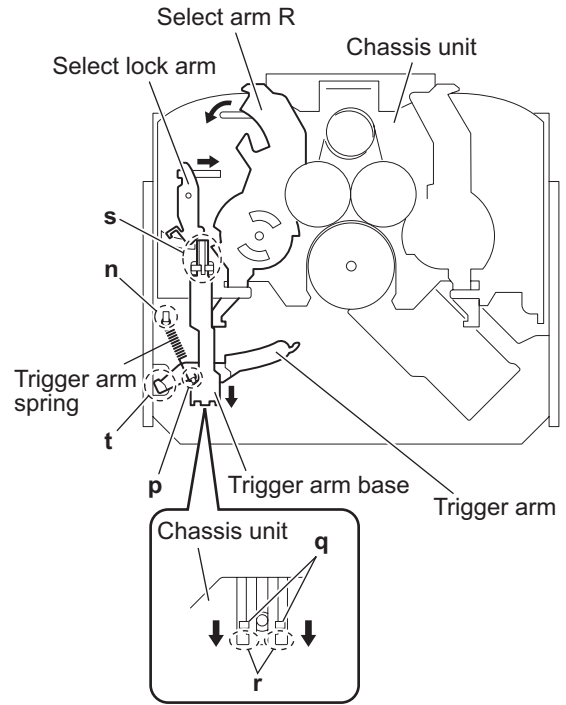


Fig.14

### 3.2.10 Removing the top plate assembly (See Fig.15)

- Remove the top cover, base board, chassis unit, clamber assembly and trigger arm.

- Remove the screw H attaching the top plate assembly.
- Move the top plate assembly in the direction of the arrow to release the joints (u, v).

**Reference:**

Remove the wires from the soldered sections w of the top plate assembly as required.

**Note:**

When reassembling, solder the wires as before.

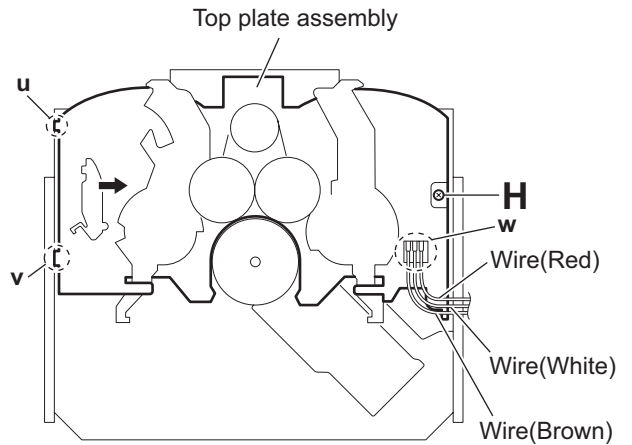


Fig.15

### 3.2.11 Removing the mode switch (See Fig.16)

- Remove the top cover, base board, chassis unit, clamber assembly, trigger arm and top plate assembly.
  - From the top side of the top plate assembly, remove the link gear spring from the sections **x** of the link gear L and link gear R.
  - Remove the link gear L in an upward direction while releasing the claws **y** of the link gear L in the direction of the arrow.
  - Move the mode switch in the direction of the arrow 1 to remove the sections **z** of the top plate assembly.
  - Move the mode switch in the direction of the arrow 2 and remove the mode switch from the sections (**aa**, **ab**).

**Note:**

When reattaching the link gear L, attach it after aligning the hole **ac** of the link gear L to the hole **ac** of the link gear R.

**Reference:**

When reassembling, reverse the above removing procedure.

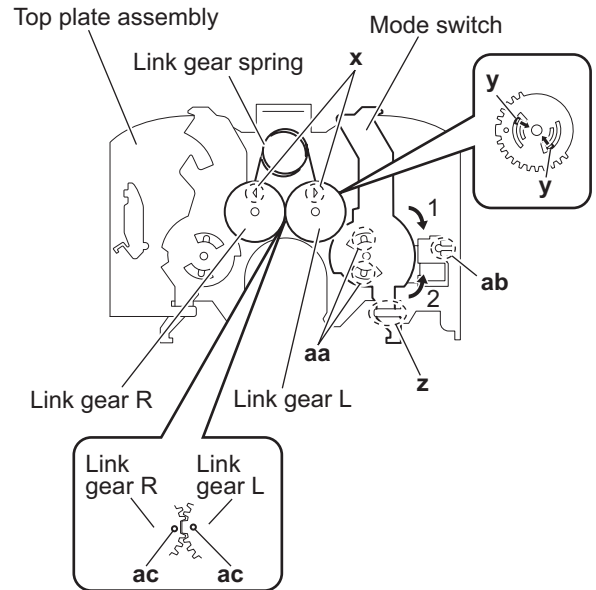


Fig.16

**3.2.12 Removing the select arm R and select lock arm**  
**(See Figs.17 and 18)**

- Remove the top cover, base board, chassis unit, clamper assembly, trigger arm and top plate assembly.

- (1) From the top side of the top plate assembly, remove the link gear spring from the sections **ad** of the link gear L and link gear R. (See Fig.17.)
- (2) Remove the link gear R in an upward direction while releasing the claws **ae** of the link gear R in the direction of the arrow. (See Fig.17.)
- (3) Move the select arm R in the direction of the arrow 1 to remove the sections **af** of the top plate assembly. (See Fig.17.)
- (4) Move the select arm R in the direction of the arrow 2 and remove the select arm R from the sections **ag**. (See Fig.17.)
- (5) From the bottom side of the top plate assembly, remove the select lock arm spring from the section **ah**. (See Fig.18.)
- (6) From the top side of the top plate assembly, remove the section **aj** of the select lock arm from the top plate assembly at first and remove the sections (**ak**, **am**) of the select lock arm from the top plate assembly. (See Fig.18.)

**Note:**

- When removing the select lock arm spring, be careful not to lose it. (See Fig 18.)
- When reattaching the link gear R, attach it after aligning the hole **an** of the link gear R to the hole **an** of the link gear L. (See Fig.17.)

**Reference:**

When reassembling, reverse the above removing procedure.

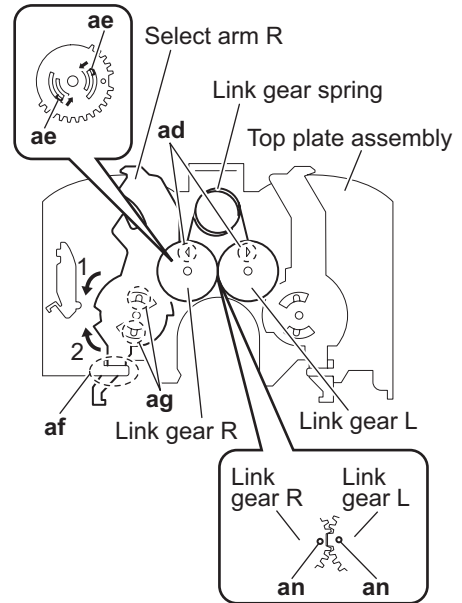


Fig.17

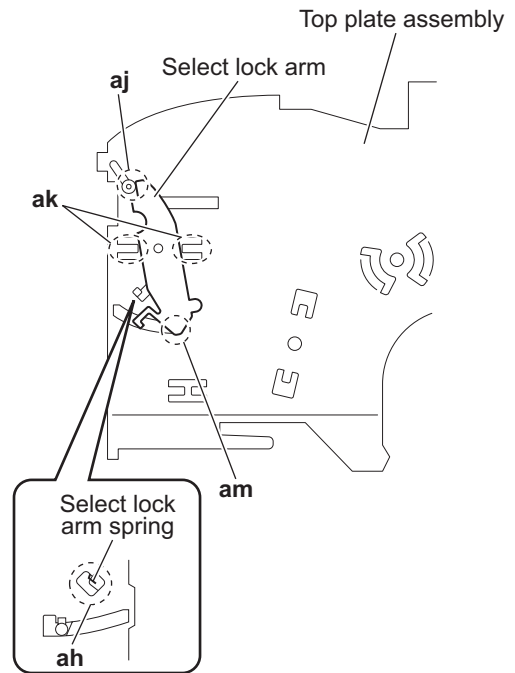


Fig.18

### 3.2.13 Removing the loading roller assembly (See Figs.19 to 21)

- Remove the top cover, base board, chassis unit, clasper assembly and top plate assembly.
  - (1) From the left side of the chassis unit, remove the screw **J** attaching the lock arm assembly. (See Fig.19.)
  - (2) Remove the projection **ap** of the lock arm assembly from the joint **aq** while opening the cam plate R in the direction of the arrow. (See Fig.19.)
  - (3) Remove the lock arm assembly from the projection **ar** of the chassis unit. (See Fig.19.)
  - (4) Remove the projection **as** of the lock arm assembly from the joint **at** of the cam plate L assembly. (See Fig.19.)
  - (5) From the right side of the lock arm assembly, remove the loading roller spring L from the section **au**. (See Fig.20.)
  - (6) From the top side of the lock arm assembly, remove the loading roller spring R in the direction of the arrow and remove the loading roller assembly. (See Fig.20.)
  - (7) Remove the roller guide R, HL washer and roller guide L from the both ends of the loading roller assembly. (See Fig.21.)

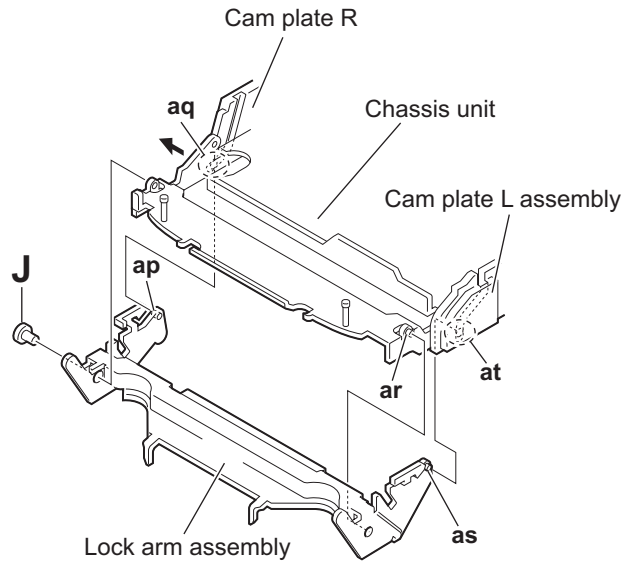


Fig.19

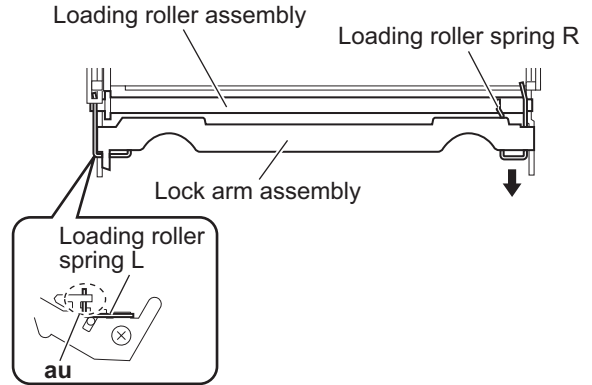


Fig.20

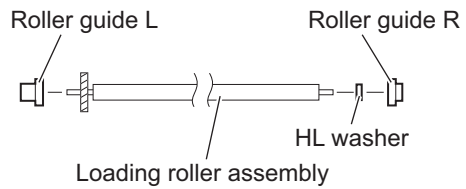


Fig.21

### 3.2.14 Removing the loading gear 1, loading gear 2, loading gear 3 and feed gear 1 (See Fig.22)

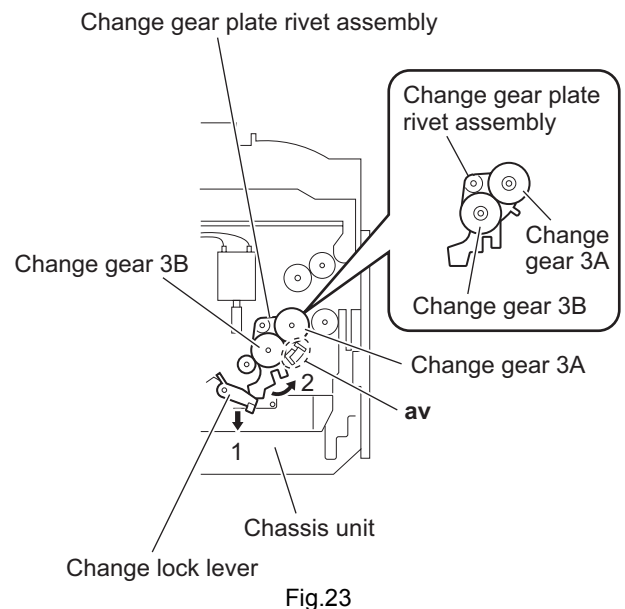
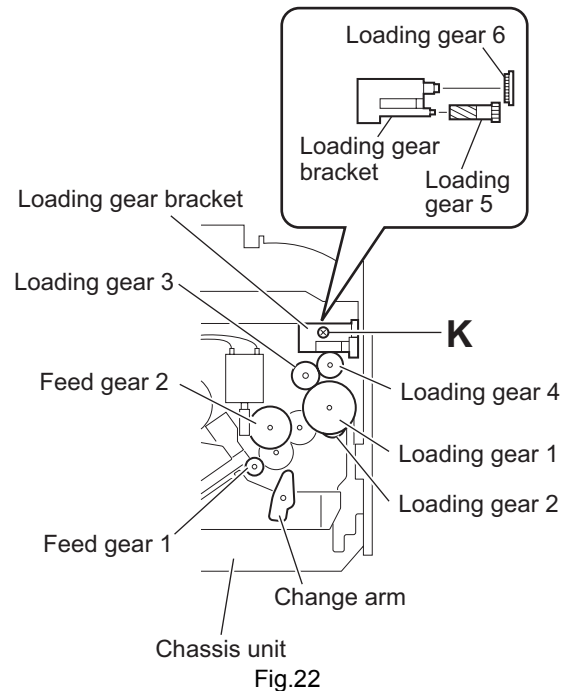
- Remove the top cover, base board and chassis unit.
  - From the bottom side of the chassis unit, pull out the loading gear 1.
  - Take out the loading gear 2.
  - Pull out the loading gear 3.
  - Pull out the feed gear 1.

### 3.2.15 Removing the loading gear 4, loading gear 5 and loading gear 6 (See Fig.22)

- Remove the top cover, base board and chassis unit.
  - From the bottom side of the chassis unit, remove the screw **K** attaching the loading gear bracket.
  - Take out the loading gear bracket and remove the loading gear 5 and loading gear 6 from the loading gear bracket.
  - Pull out the loading gear 4.

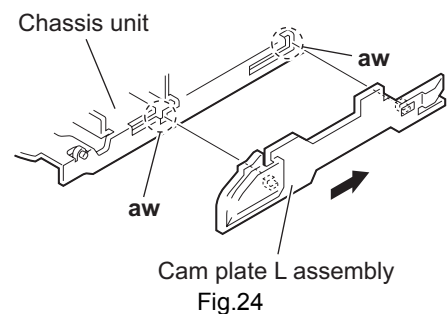
### 3.2.16 Removing the change gear 2, change gear 3A and change gear 3B (See Figs.22 and 23)

- Remove the top cover, base board and chassis unit.
  - From the bottom side of the chassis unit, pull out the loading gear 1. (See Fig.22.)
  - Pull out the change gear 2. (See Fig.22.)
  - Pull out the change arm. (See Fig.22.)
  - Move the change gear plate rivet assembly in the direction of the arrow 2 to remove the section **av** of the change gear plate rivet assembly from the chassis unit while moving the change lock lever in the direction of the arrow 1. (See Fig.23.)
  - Pull out the change gear 3A and change gear 3B from the change gear plate rivet assembly. (See Fig.23.)



### 3.2.17 Removing the cam plate L assembly (See Fig.24)

- Remove the top cover, base board, chassis unit, clamper assembly, top plate assembly and loading roller assembly.
  - From the left side of the chassis unit, slide the cam plate L assembly in the direction of the arrow.
  - Remove the cam plate L assembly from the slots **aw** of the chassis unit.



**3.2.18 Removing the cam plate R**  
(See Fig.25)

- Remove the top cover, base board, chassis unit, clamber assembly, top plate assembly and loading roller assembly.
- From the right side of the chassis unit, remove the cam plate R from the slots **ax** of the chassis unit.

**Reference:**

When a slide hook rivet assembly and a trigger rack spring have come off from the chassis unit, attach them before attaching the cam plate R.

**3.2.19 Removing the trigger rack plate**  
(See Figs.25 and 26)

- Remove the top cover, base board, chassis unit, clamber assembly, top plate assembly, loading roller assembly and cam plate R.
  - Remove the slide hook rivet assembly and trigger rack spring from the chassis unit. (See Fig.25.)
  - From the bottom side of the chassis unit, pull out the loading gear 1. (See Fig.26.)
  - Remove the trigger control spring from the sections (**ay**, **az**). (See Fig.26.)
  - Take out the trigger rack plate from the chassis unit. (See Fig.26.)

**Reference:**

When attaching the trigger rack plate, insert the projection **a'** of the chassis unit in the slot **b'** on the bottom side of the trigger rack plate as before. (See Fig.26.)

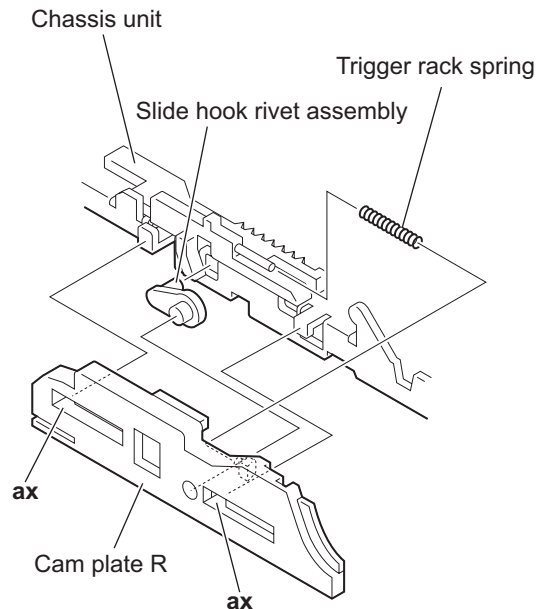


Fig.25

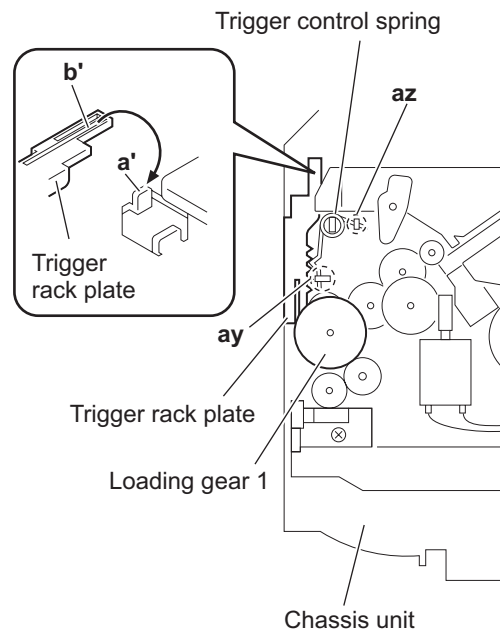


Fig.26

### 3.2.20 Removing the spindle motor assembly (See Figs.27 and 28)

- Remove the top cover, base board, chassis unit and clasper assembly.
  - From the top side of the chassis unit, turn the turn table from side to side and remove the two screws **M** attaching the spindle motor assembly through the hole of the turn table. (See Fig.27.)
  - From the bottom side of the chassis unit, turn the change gear 2 in the direction of the arrow 2 while pulling the trigger arm in the direction of the arrow 1 and let the pickup move in the direction of the arrow 3. (See Fig.28.)
  - Slide the spindle motor assembly in the direction of the arrow and take out it in an upward direction from the chassis unit. (See Fig.28.)

#### Reference:

Remove the wires from the soldered sections **c'** on the base board and remove them from the sections (**d'**, **e'**) on the chassis unit as required.

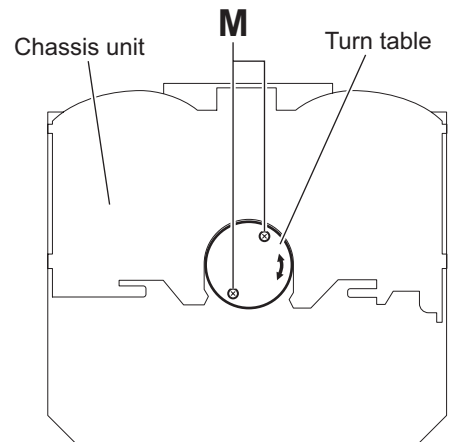
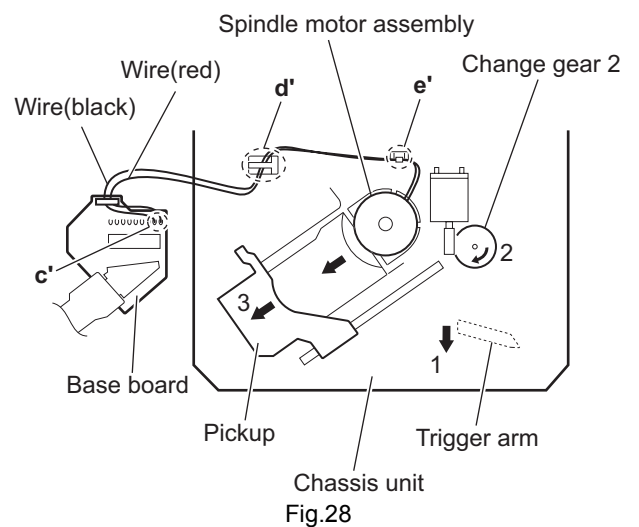


Fig.27



## 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  
EXTSH002-22P 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.

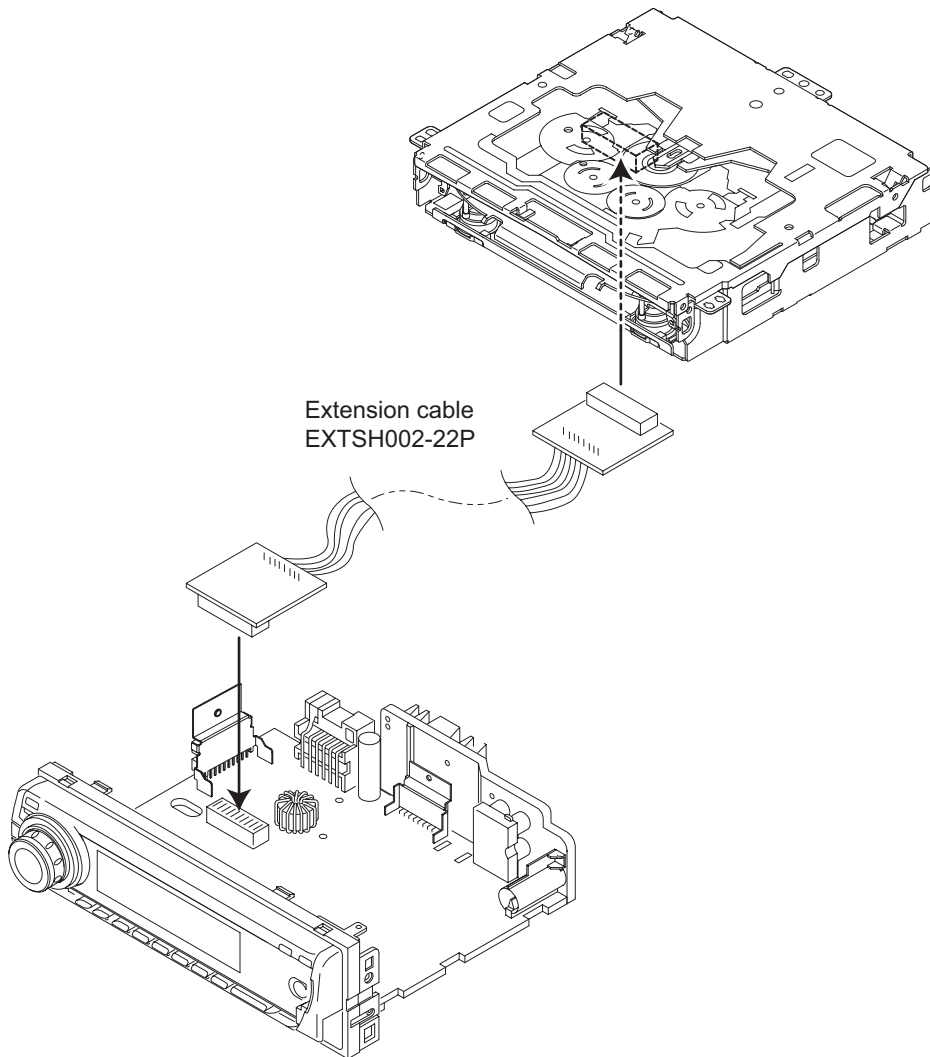
### 4.3 Standard volume position

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.

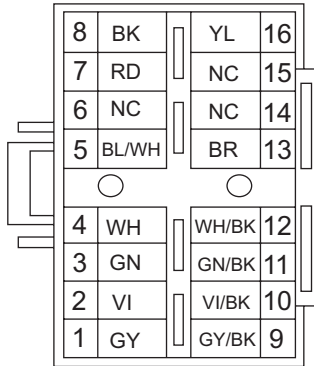
The loss of 6dB need not be considered since direct reading of figures are applied in this working standard.



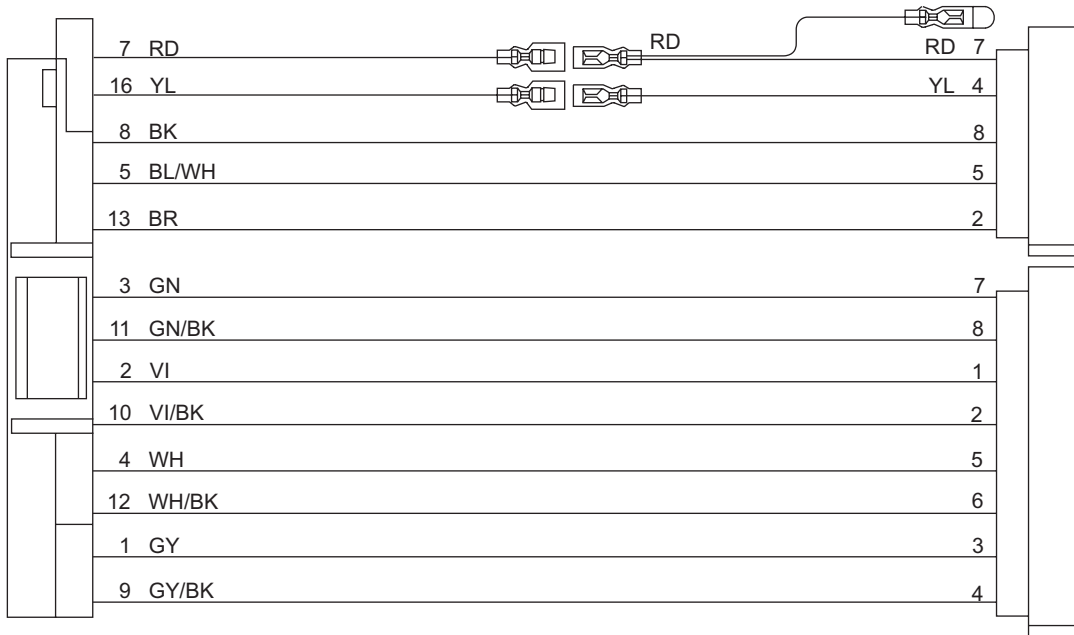
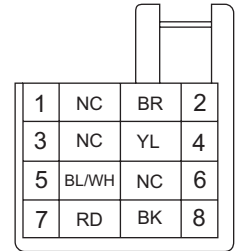


# SECTION 5 TROUBLESHOOTING

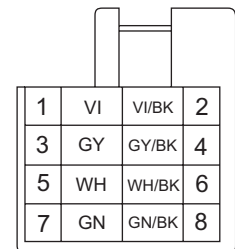
## 5.1 16PIN CORD DIAGRAM (for KD-G541, KD-G547)



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

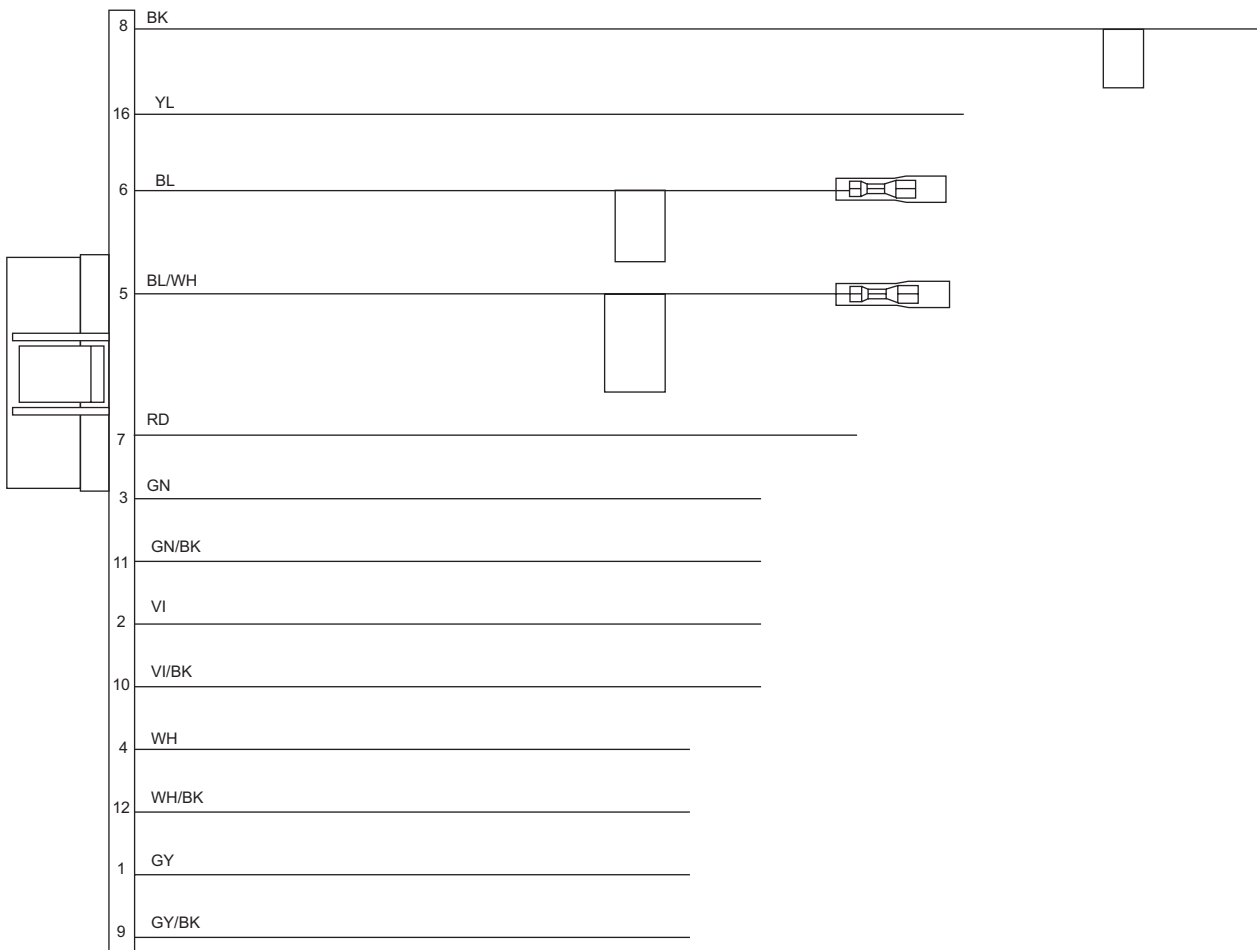
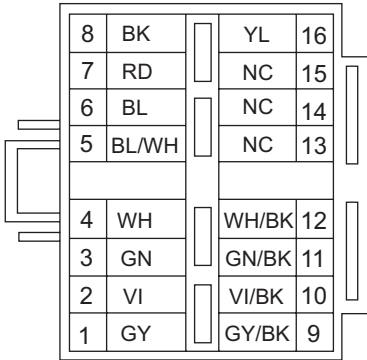


RR	Rear Right	ACC	ACC Line
FR	Front Right	TEL	Telephone Muting
FL	Front Left	GND	Ground
RL	Rear Left	MEMORY	Memory Backup Battery+
REMOTE	Remote	ANT	Auto Antenna
ILL	Illuminations Control		



**5.2 16 PIN CORD DIAGRAM (for KD-G544, KD-G545, KD-G546)**

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







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

---

(No.MA384<Rev.001>)

Printed in Japan  
VPT

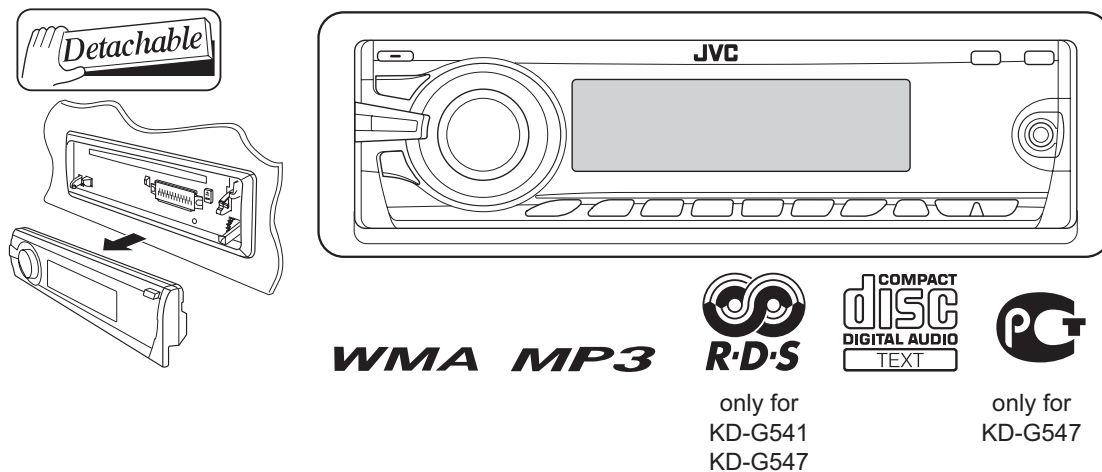
# JVC

## SCHEMATIC DIAGRAMS

### CD RECEIVER

**KD-G541E, KD-G541EX, KD-G541EY  
KD-G541EU, KD-G544UI, KD-G545U  
KD-G545UN, KD-G545UT, KD-G545UH  
KD-G546U, KD-G546UN, KD-G546UT  
KD-G546UH, KD-G547EE**

CD-ROM No.SML200712



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.



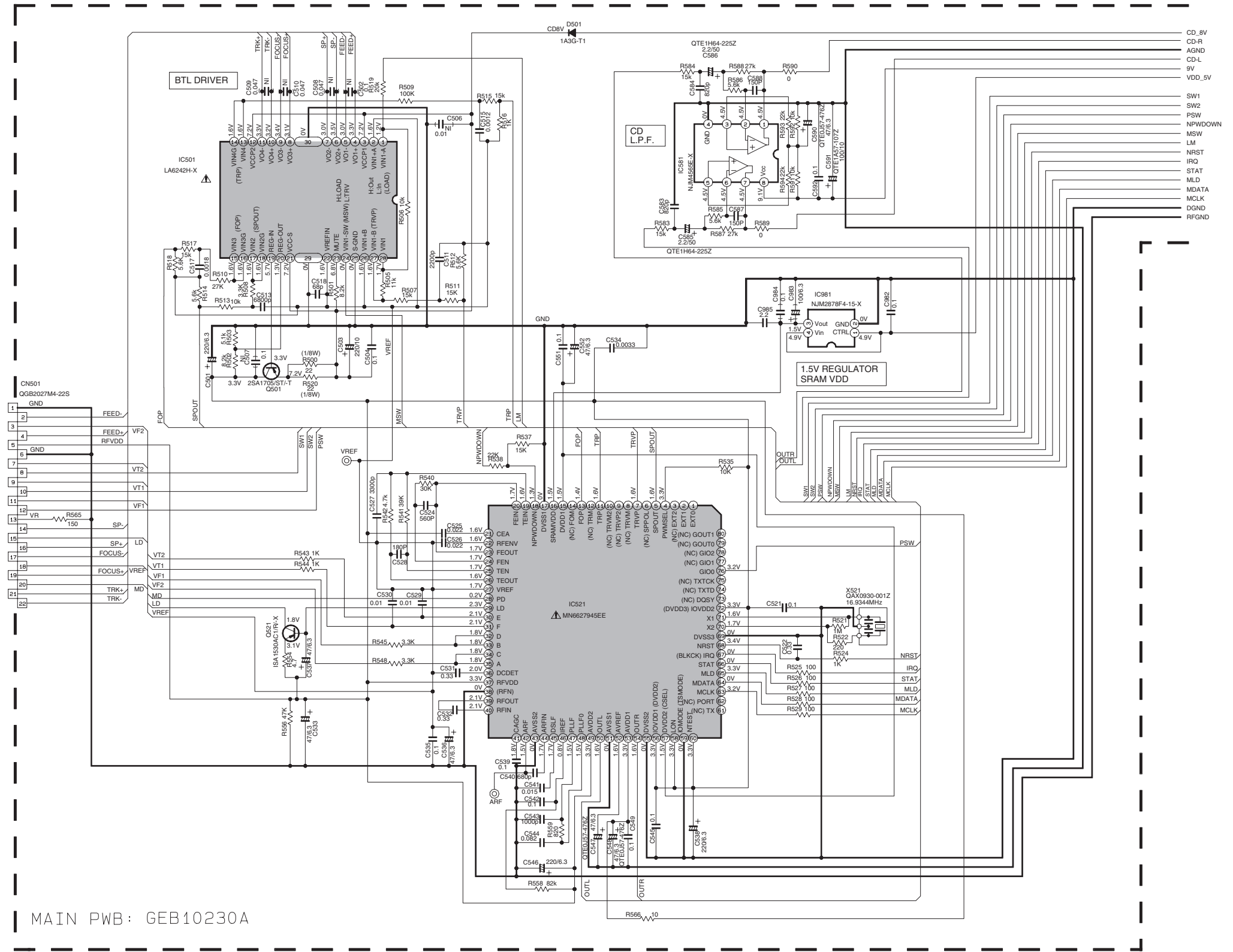
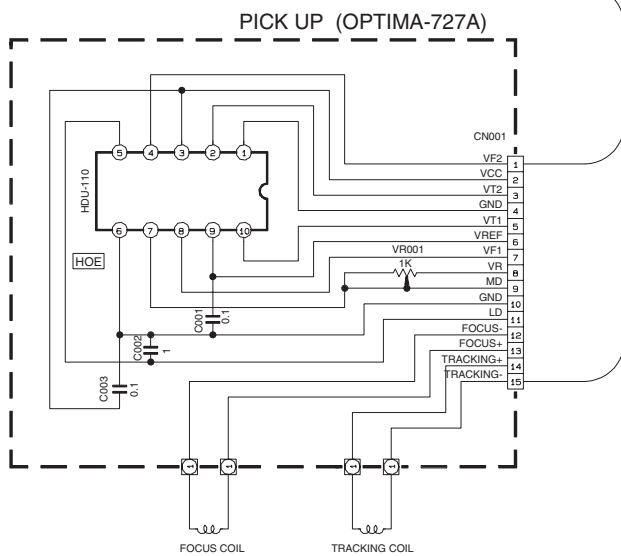
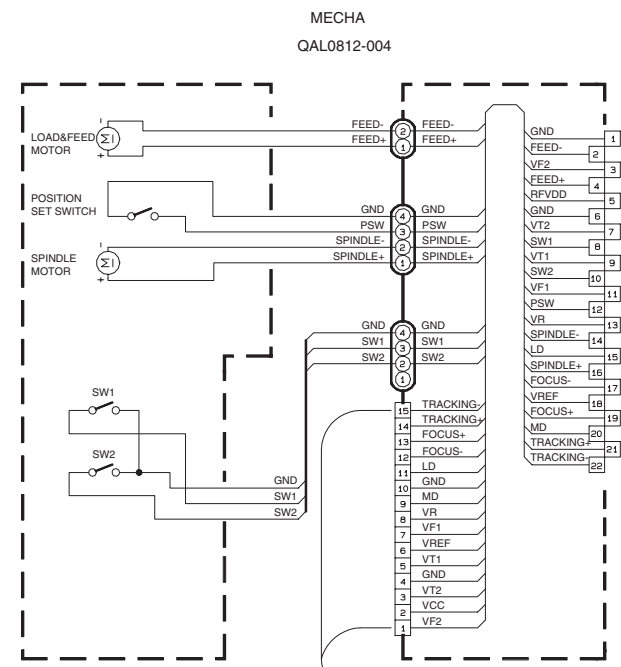
**CAUTION** Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.







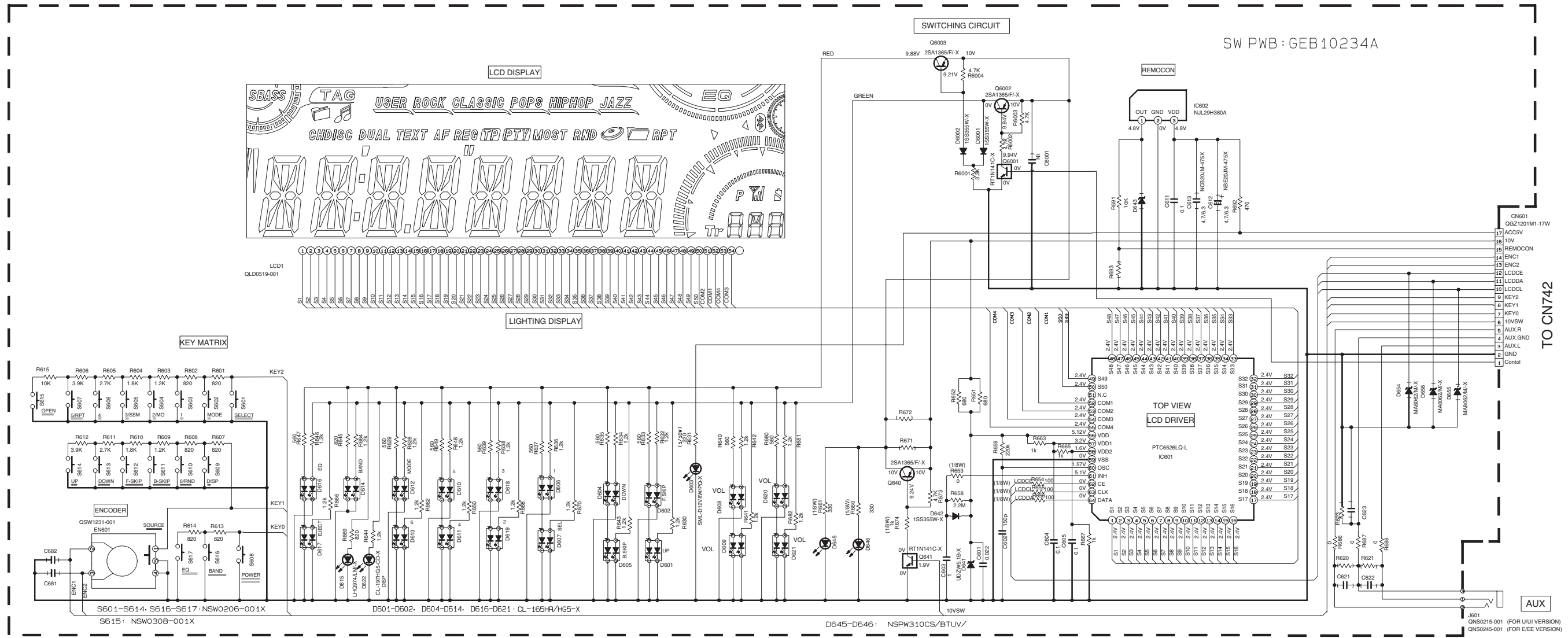
■ CD section



- NOTES:
- VOLTAGE ARE DC-MEASURED WITH A DIGITAL VOLTMETER WITHOUT INPUT SIGNAL CONDITION — CD MODE.
  - UNLESS OTHERWISE SPECIFIED, ALL RESISTOR ARE 1/16W ±5%METAL GLAZE RESISTOR. ALL CAPACITOR ARE 50V OR 25V CERAMIC CAPACITOR. ALL RESISTANCE VALUES ARE IN OHM. ALL CAPACITANCE VALUES ARE IN uF(ppf). ALL INDUCTANCE VALUES ARE IN uH. ALL E- CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)

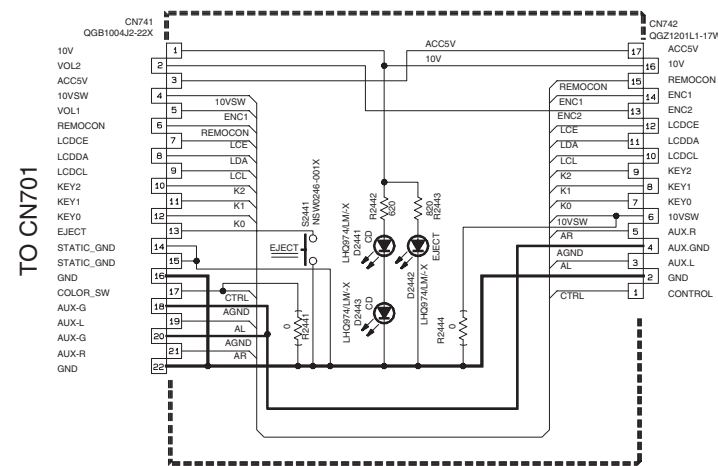
▲ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

# LCD & Key control section



- NOTES
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
  - UNLESS OTHERWISE SPECIFIED. ALL RESISTORS ARE 1/16W METAL GLAZE RESISTORS. ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR. ALL RESISTANCE VALUES ARE IN OHM. ALL CAPACITANCE VALUES ARE IN uF (P=pF) ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V) T --- TANTALUM CAPACITOR.
  - COMPONENTS IN ( ) INDICATE NOT USE.

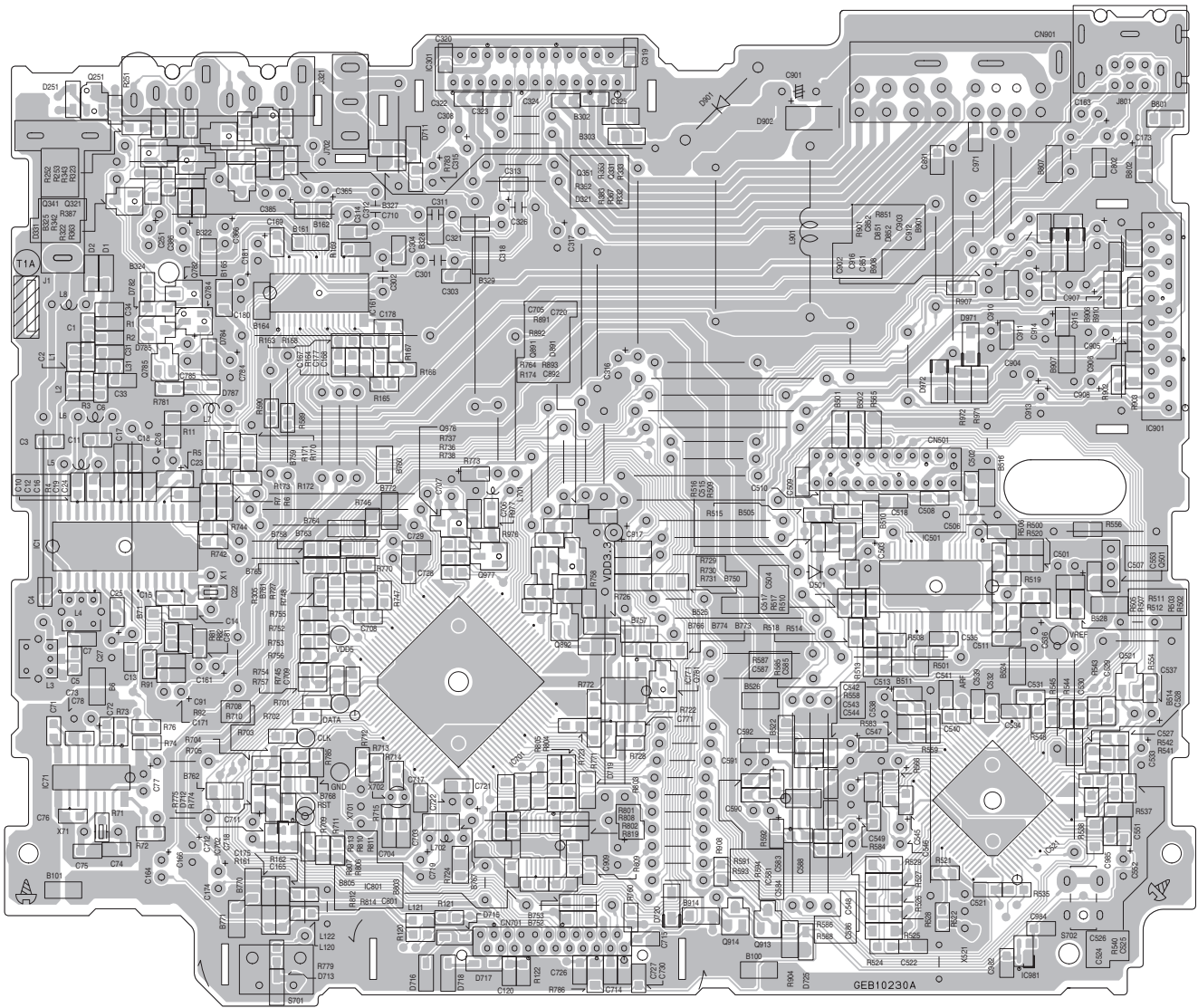
# Function section



- FUNCTION PWB:GEB10237A
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL CONDITION --- CD MODE. ( ) FM MODE. □ AM MODE.
  - UNLESS OTHERWISE SPECIFIED. ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR. ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR. ALL RESISTANCE VALUES ARE IN OHM. ALL CAPACITANCE VALUES ARE IN uF (P=pF) ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V) F --- FILM CAPACITOR
  - NI STANDS FOR NOT INSERTED PARTS

# Printed circuit board

- 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)

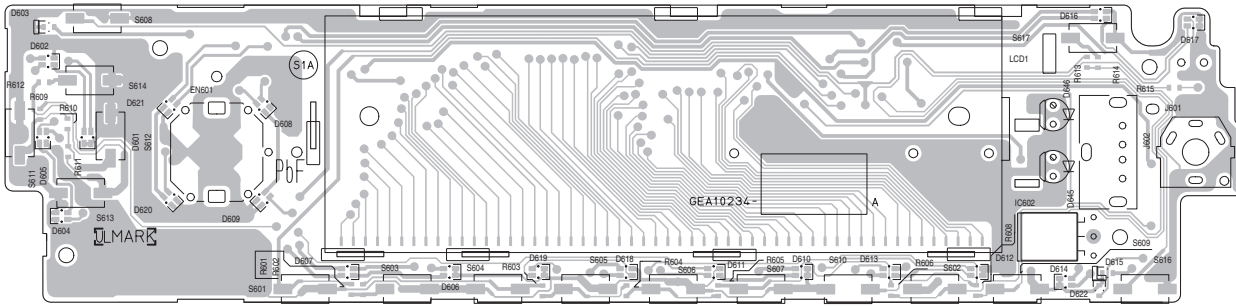


■ **Switch board**

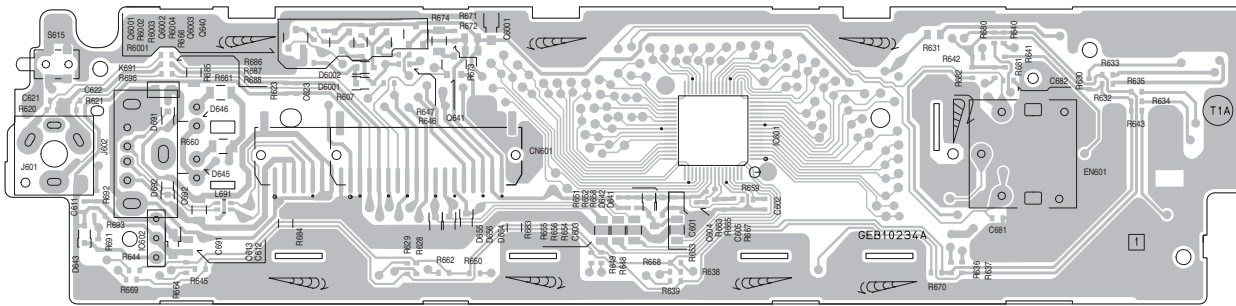
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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

forward side



reverse side

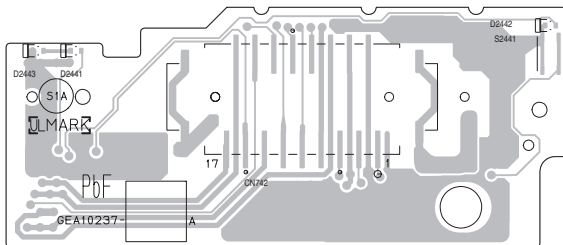


■ **Function board**

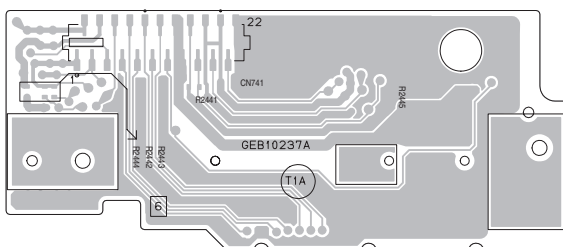
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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

forward side



reverse side



< MEMO >



**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.MA384SCH)

Printed in Japan  
VPT

# PARTS LIST

KD-G541E,KD-G541EX,KD-G541EY  
KD-G541EU,KD-G544UI,KD-G545U  
KD-G545UN,KD-G545UT,KD-G545UH  
KD-G546U,KD-G546UN,KD-G546UT  
KD-G546UH,KD-G547EE

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

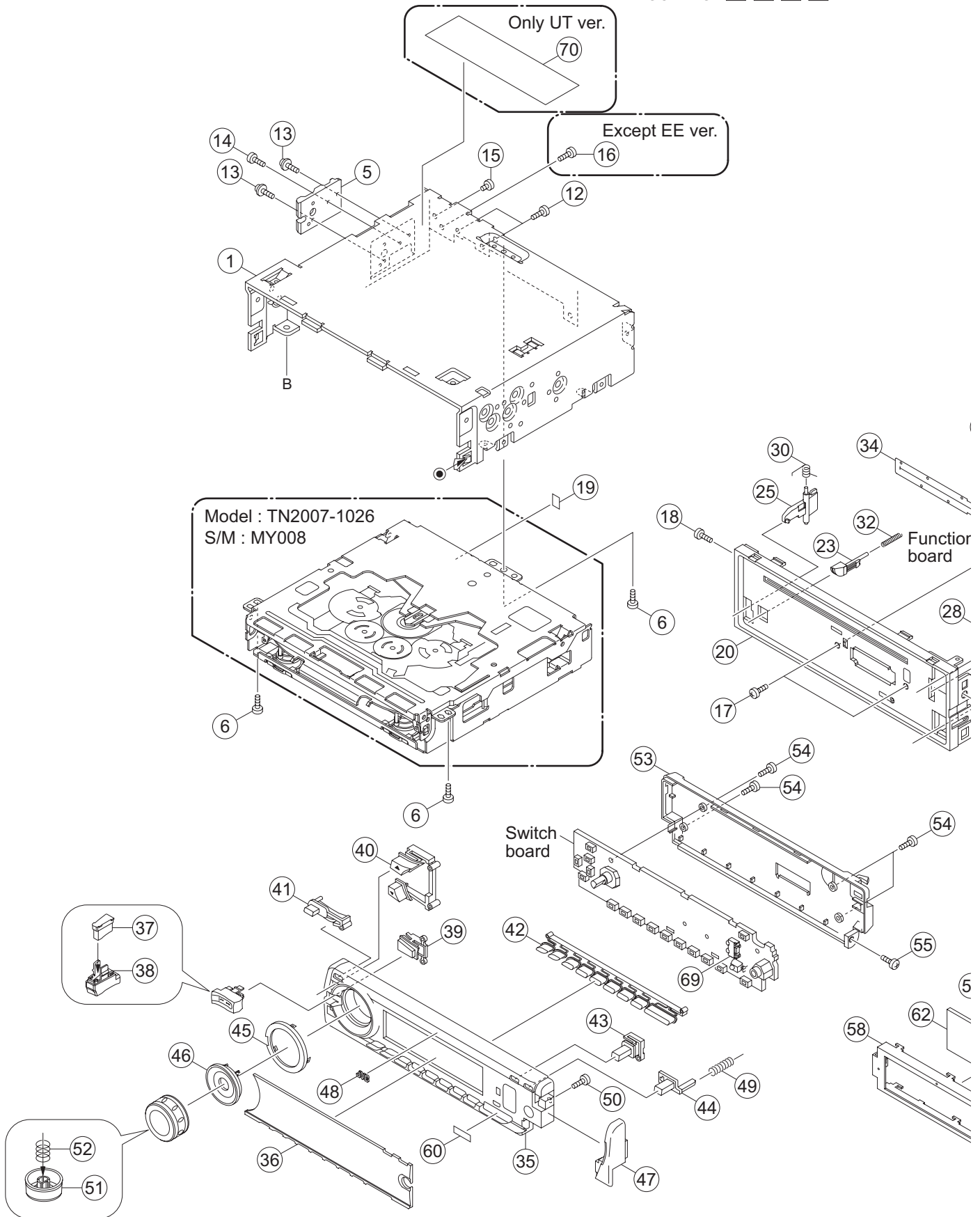
## - Contents -

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) .....	3-11
Packing materials and accessories parts list (Block No.M3) .....	3-18

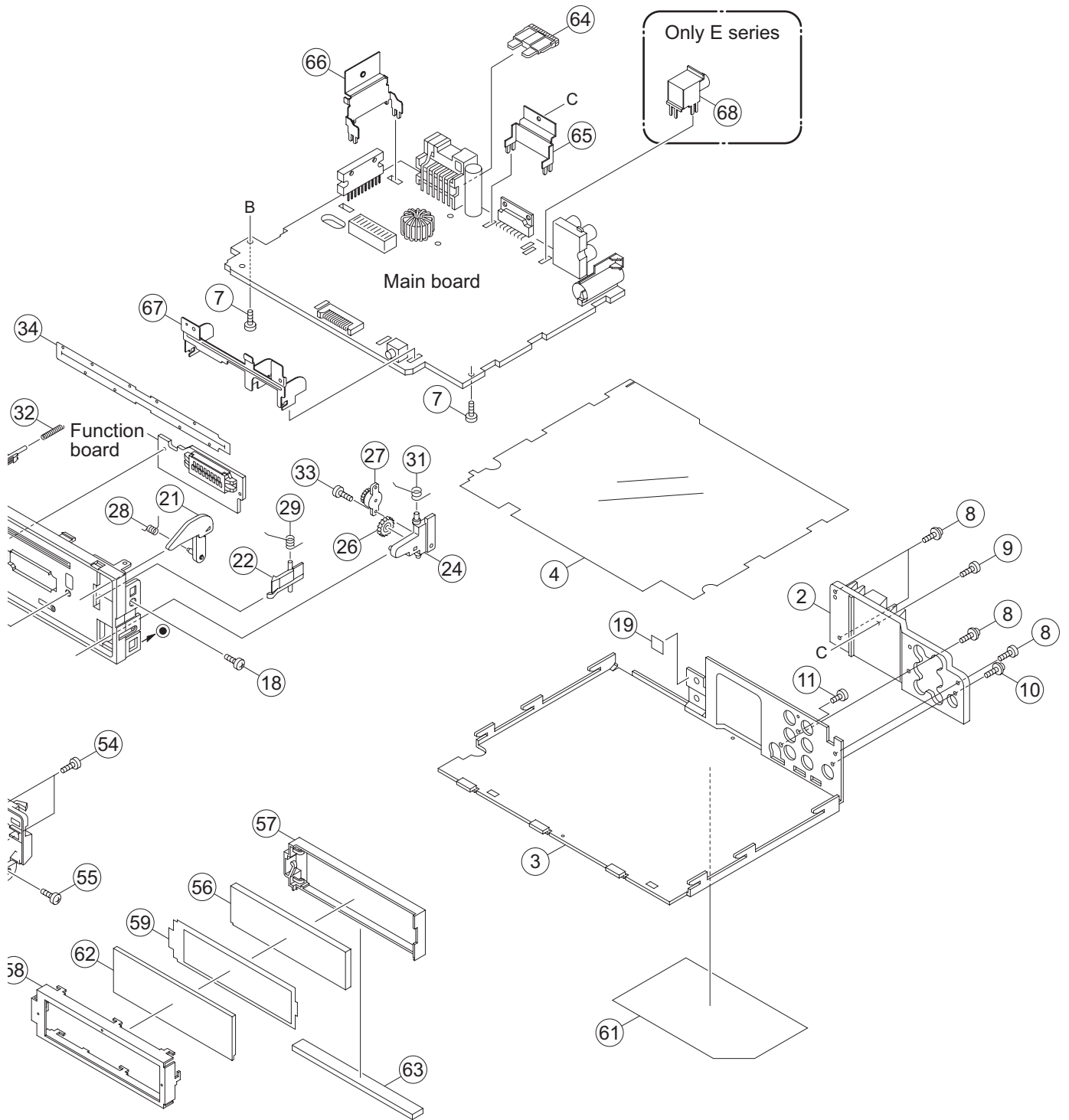


# Exploded view of general assembly and parts list

Block No. **M** **1** **M** **M**







The parts without symbol number are not service.

# General Assembly

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

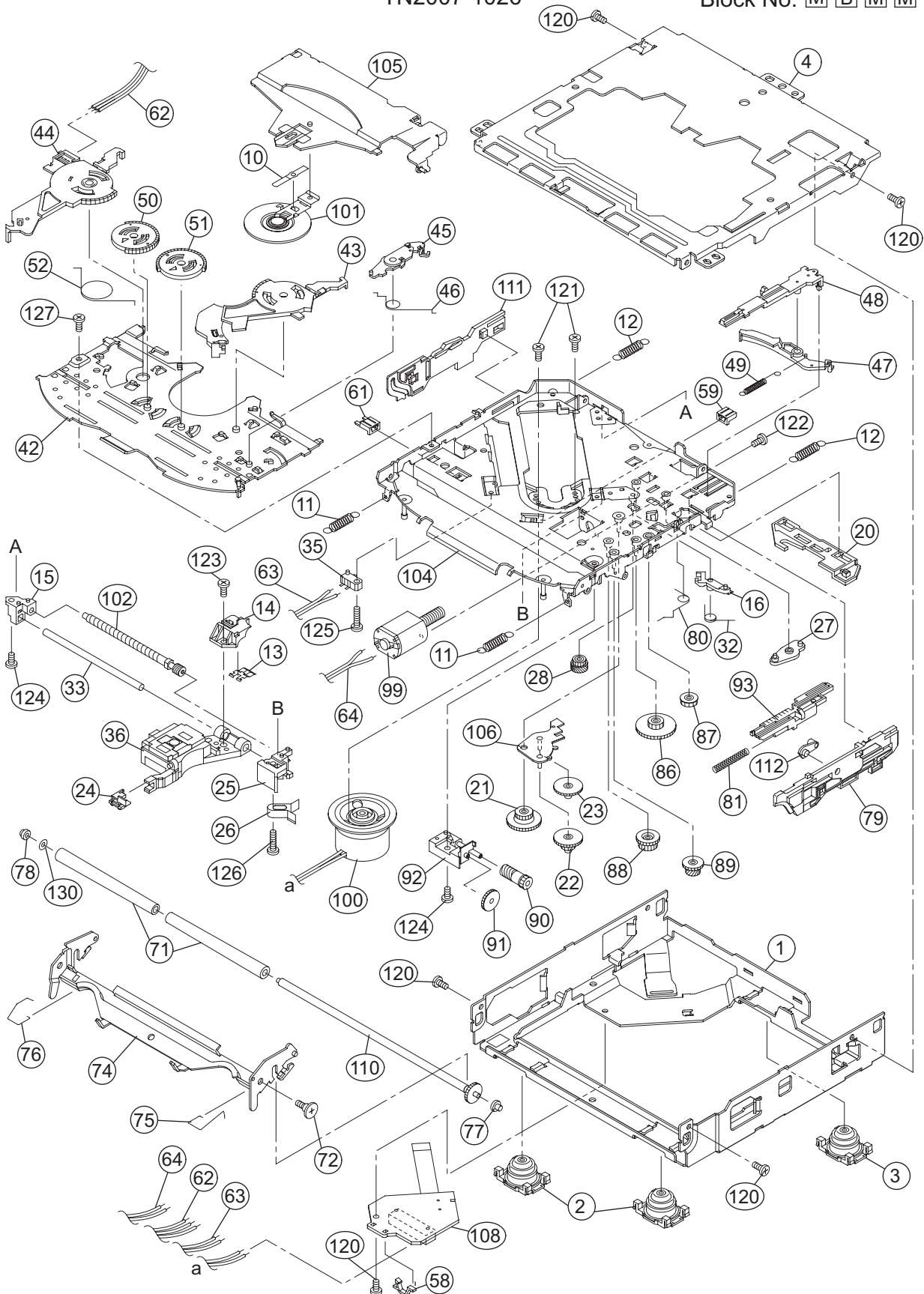
△	Symbol No.	Part No.	Part Name	Description	Local
	1	GE10227-005A	TOP CHASSIS		541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
	1	GE10227-006A	TOP CHASSIS		547EE
	2	GE32823-007A	HEAT SINK		541E,541EX,541EY,541EU
	2	GE32823-008A	HEAT SINK		544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH,547EE
	3	GE20242-002A	BOTTOM COVER		
	4	GE33080-001A	INSULATOR		
	5	GE40395-001A	SIDE PANEL		
	6	QYSDST2604ZA	TAP SCREW	M2.6 x 4mm(x3)	
	7	GE40377-002A	SCREW	(x2)	
	8	GE40377-001A	SCREW	(x4)	
	9	QYSDST2610ZA	TAP SCREW	M2.6 x 10mm	
	10	QYSDST2610ZA	TAP SCREW	M2.6 x 10mm	
	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	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
	17	GE40425-001A	SCREW	(x2)	
	18	QYSDST2004ZA	TAP SCREW	M2 x 4mm(x2)	
	19	GE40218-084A	SHEET	(x2)	
	20	GE33102-003A	F.CHASSIS ASSY		
	21	GE33085-001A	OPEN LEVER		
	22	GE33082-001A	EJECT LEVER		
	23	GE33086-001A	DETACH LEVER		
	24	GE33083-001A	LOCK LEVER(R)		
	25	GE33084-001A	LOCK LEVER(L)		
	26	GE40154-001A	GEAR		
	27	QZW0108-002	OIL DAMPER		
	28	GE40419-001A	TORSION SPRING		
	29	GE40420-004A	T.SPRING		
	30	GE40422-003A	T. SPRING		
	31	GE40421-003A	T. SPRING		
	32	GE40202-023A	COMPRESSION SPRING		
	33	QYSDSF2006ZA	TAP SCREW	M2 x 6mm	
	34	GE40433-001A	BLIND		
	35	GE33101-003A	FRONT PANEL ASSY		541E,541EX,541EY,541EU
	35	GE33101-004A	FRONT PANEL ASSY		544UI
	35	GE33101-001A	FRONT PANEL ASSY		545U,545UN,545UT,545UH
	35	GE33101-005A	FRONT PANEL ASSY		546U,546UN,546UT,546UH
	35	GE33101-006A	FRONT PANEL ASSY		547EE
	36	GE33088-004A	FINDER ASSY		541E,541EX,541EY,541EU,547EE
	36	GE33088-001A	FINDER ASSY		544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
	37	GE40407-001A	SEARCH BTN LENS		
	38	GE33079-001A	SEARCH BTN COV		541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
	38	GE33079-004A	SEARCH BTN COV		547EE
	39	GE33069-001A	SEARCH BTN BASE		
	40	GE33070-001A	UP DOWN BUTTON		541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
	40	GE33070-004A	UP DOWN BUTTON		547EE
	41	GE33071-001A	POWER BUTTON		541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH
	41	GE33071-005A	POWER BUTTON		546U,546UN,546UT,546UH,547EE
	42	GE20241-001A	PRESET BUTTON		541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH
	42	GE20241-005A	PRESET BUTTON		546U,546UN,546UT,546UH,547EE
	43	GE33074-002A	EQ BUTTON		541E,541EX,541EY,541EU
	43	GE33074-001A	EQ BUTTON		544UI,545U,545UN,545UT,545UH
	43	GE33074-012A	EQ BUTTON		546U,546UN,546UT,546UH
	43	GE33074-013A	EQ BUTTON		547EE
	44	GE33075-001A	OPEN BUTTON		541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH
	44	GE33075-005A	OPEN BUTTON		546U,546UN,546UT,546UH,547EE
	45	GE33076-001A	RIM COVER		541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
	45	GE33076-004A	RIM COVER		547EE
	46	GE33077-001A	RIM LENS		
	47	GE33068-001A	SIDE COV RIGHT		541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
	47	GE33068-004A	SIDE COV RIGHT		547EE

△	Symbol No.	Part No.	Part Name	Description	Local
	48	GE40403-001A	JVC BADGE		
	49	GE40202-012A	COMPRESSION SPRING		
	50	VKZ4777-011	MINI SCREW		
	51	GE40398-002A	VOL KNOB ASSY		541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
	51	GE40398-004A	VOL KNOB ASSY		547EE
	52	GE40127-005A	KNOB SPRING		
	53	GE10226-002A	REAR COVER		
	54	VKZ4777-010	MINI SCREW	(x4)	
	55	VKZ4777-011	MINI SCREW		
	56	GE32142-001A	LENS		
	57	GE33062-001A	LENS CASE		
	58	GE33059-001A	LCD CASE		
	59	GE40409-001A	LIGHTING SHEET		
	60	GE40431-001A	REMOTE SHEET		
	61	GE32954-001A	NAME PLATE		541E,541EX,541EY,541EU
	61	GE32960-001A	NAME PLATE		544UI
	61	GE32957-001A	NAME PLATE		545U,545UN,545UT,545UH
	61	GE32963-001A	NAME PLATE		546U,546UN,546UT,546UH
	61	GE32966-001A	NAME PLATE		547EE
	62	QLD0519-001	LCD MODULE		
	63	QNZ0964-001	RUBBER CONNECTO		
△	64	QMFZ063-150-J1	FUSE	15A	
	65	GE40396-002A	REG BRACKET		
	66	GE40354-001A	IC BRACKET		
	67	GE33091-001A	CON PWB BRACKET		
	68	GE40424-001A	OE HOLDING BKT		541E,541EX,541EY,541EU
	69	GE30854-001A	LED HOLDER		
	70	GE31574-077A	UT LABEL		545UT
	70	GE31574-078A	UT LABEL		546UT

# CD mechanism assembly and parts list

TN2007-1026

Block No. M B M M



# CD mechanism

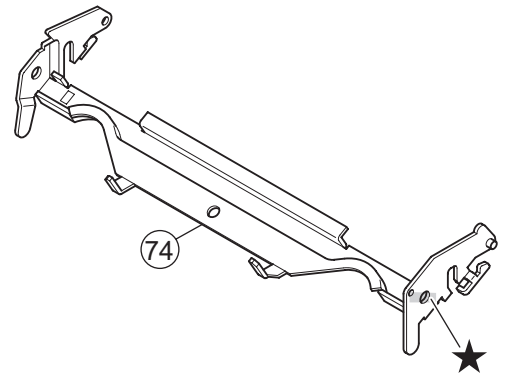
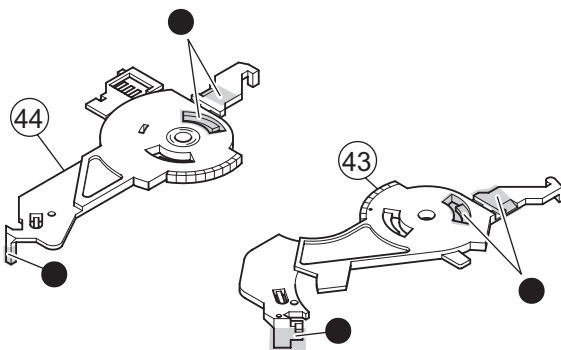
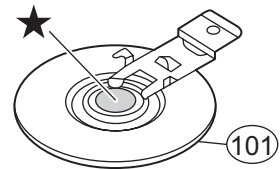
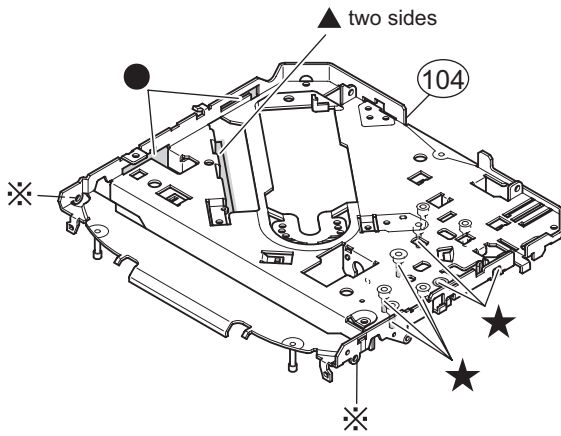
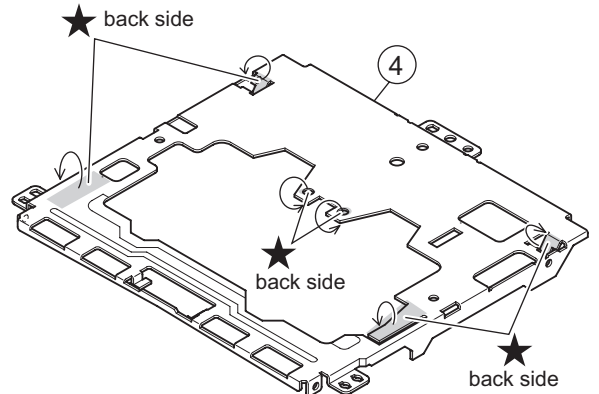
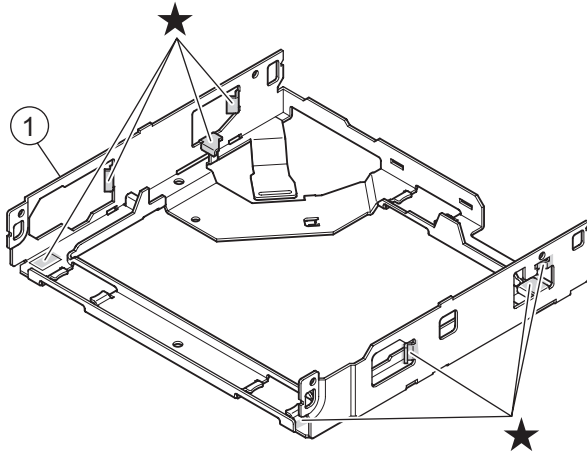
Block No. [M][B][M][M]

△	Symbol No.	Part No.	Part Name	Description	Local
	1	30350101T	FRAME		
	2	30350103T	DAMPER F	(x2)	
	3	30350104T	DAMPER R		
	4	30350107T	TOP COVER		
	10	30320513T	CLAMPER SUB SPG		
	11	30350505T	FRONT SUS SPG	(x2)	
	12	30350506T	REAR SUS SPRING	(x2)	
	13	30350508T	FEED NUT SPP		
	14	30350509T	FEED SCREW HLDR		
	15	30350525T	PU SHAFT HLDR B		
	16	30350528T	LOCK LEVER		
	20	30350529T	LOCK PLATE		
	21	30350581T	CHANGE GEAR2		
	22	30350582T	CHANGE GEAR 3A		
	23	30350583T	CHANGE GEAR 3B		
	24	30350535T	FEED SUB HOLDER		
	25	30350536T	PU SHAFT HLDR A		
	26	30350539T	FD THRUST SPP		
	27	30350542T	CHANGE ARM		
	28	30350508T	FEED GEAR 1		
	32	30350554T	LOCK LEVER SP		
	33	30350555T	PU SHAFT		
	35	64010418T	PUSH SW P389-01		
	36	69011629T	PICK UP	OPTIMA-727AD	
	42	30350801T	TOP PLATE		
	43	30350802T	SELECT ARM R		
	44	30350803T	MODE SWICH		
	45	30350806T	SELECT LOCK ARM		
	46	30350807T	SPRING		
	47	30350808T	TRIGGER ARM		
	48	30350809T	TRG ARM BASE		
	49	30350810T	TRIGGER ARM SPR		
	50	30350811T	LINK GEAR L		
	51	30350812T	LINK GEAR R		
	52	30350813T	LINK GEAR SPR		
	58	19501403T	WIRE CLUMPER		
	59	30321013T	WIRE CLAMPER		
	61	30351001T	WIRE CLAMPER		
	62	30351008T	MODE SW WIRE		
	63	30351003T	REST SW WIRE		
	64	30351004T	LD WIRE		
	71	30321137T	LDG ROLLER	(x2)	
	72	30321143T	COLLAR SCREW		
	74	30351101T	LOCK ARM		
	75	30351102T	LD ROLLER SPR R		
	76	30351103T	LD ROLLER SPR L		
	77	30351105T	ROLLER GUIDE R		
	78	30351106T	ROLLER GUIDE L		
	79	30351116T	CAM PLATE R (N)		
	80	30351111T	TR CONTROL SPR		
	81	30351113T	SPRING		
	86	30351122T	LOADING GEAR 1		
	87	30351123T	LOADING GEAR 2		
	88	30351128T	LOADING GEAR 3		
	89	30351129T	LOADING GEAR 4		
	90	30351140T	LOADING GEAR 5		
	91	30351131T	LOADING GEAR 6		
	92	30351133T	LD GEAR BRACKET		
	93	30351135T	PLATE		
	99	303505309T	MORTER ASSY		
	100	303505302T	SPINDLE MOTOR		
	101	303505303T	CLAMPER ASSY		
	102	303505304T	FEED SCREW ASSY		
	104	303505501T	CHASSIS RIVET		
	105	303505502T	CLAMPER ARM RVT		
	106	303505503T	RIVET ASSY		
	108	303510304T	BASE BOARD ASSY		
	110	303511301T	ROLLER SHAFT		
	111	303511302T	CAM PLATE L		
	112	303511501T	SLIDE HOOK RVT		
	120	9P0420037T	SCREW	(x5)	
	121	9C0117187T	SCREW	(x2)	
	122	9C0120207T	SCREW		
	123	9C4517506T	SCREW		

△	Symbol No.	Part No.	Part Name	Description	Local
	124	9P0420047T	SCREW	(x2)	
	125	9P0420067T	SCREW		
	126	9P0420087T	SCREW		
	127	9C0420257T	SCREW		
	130	9W0513060T	HL WASHER		

# Grease point 1/2

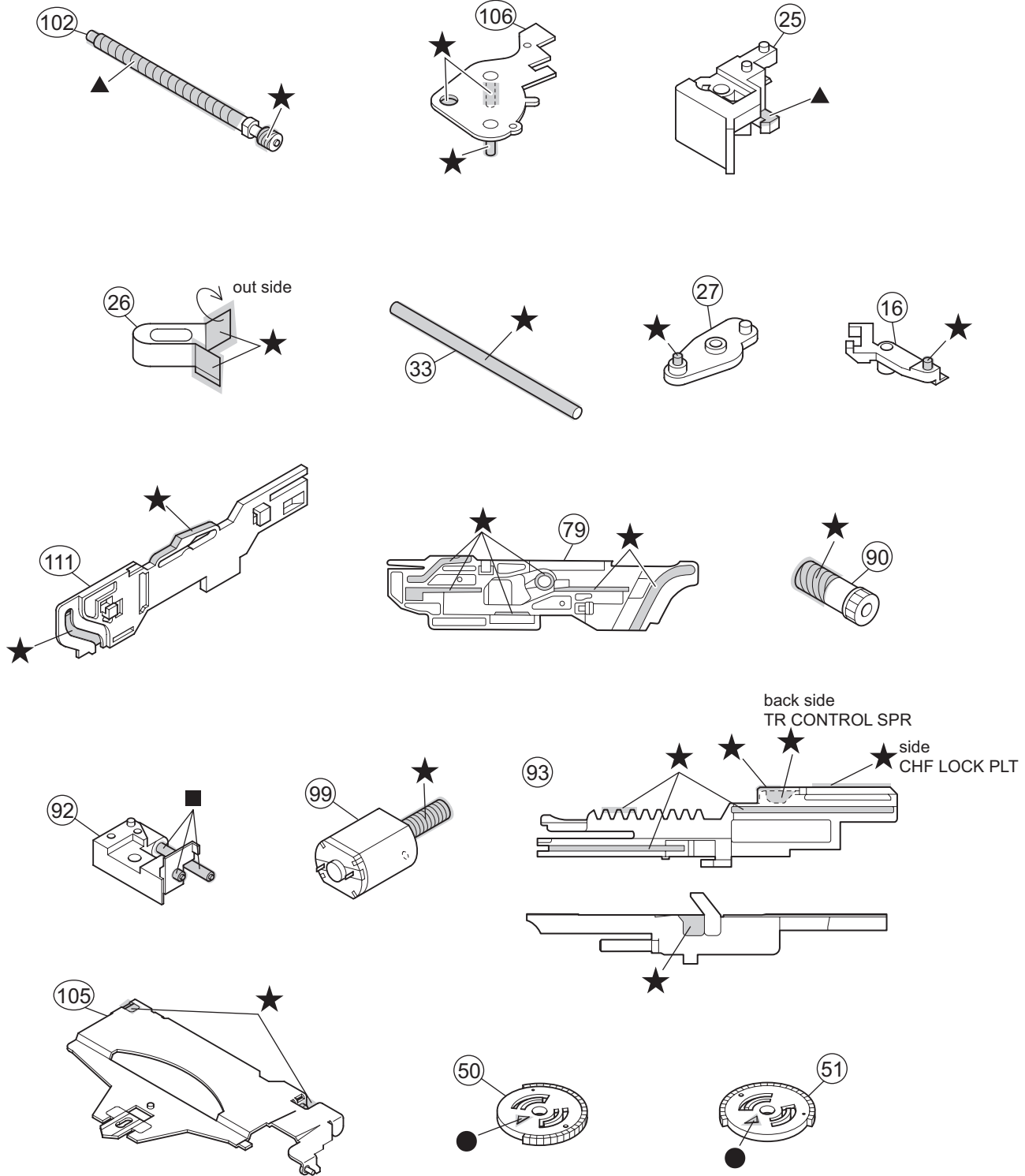
- grease
- ★ TNG-87
  - TN-4456
  - ▲ TNS-925R
  - ※ GP-501MK



# Grease point 2/2

grease

- ★ TNG-87
- TN-4456
- ▲ TNS-925R
- G-322





# Electrical parts list

## Main board

Block No. [0][1]

△ Symbol No.	Part No.	Part Name	Description	Local
△ IC1	TEF6606T/V2-X	IC		541E, 541EX, 541EY, 541EU, 547EE
△ IC1	TEF6601T/V2-X	IC		544UI, 545U, 545UN, 545UT, 545UH, 546U, 546UN, 546UT, 546UH
△ IC71	LC72725KM-X	IC		541E, 541EX, 541EY, 541EU, 547EE
IC161	BD3445FS-X	IC		
△ IC301	LV47001	IC		
△ IC501	LA6242H-X	IC		
△ IC521	MN6627945EE	IC		
IC581	NJM4565E-X	IC		
△ IC701	MN101E16MCD	IC		541E, 541EX, 541EY, 541EU, 547EE
△ IC701	MN101E16MCC	IC		544UI, 545U, 545UN, 545UT, 545UH, 546U, 546UN, 546UT, 546UH
IC702	S-80824CNNB-G-W	IC		
IC702 or IC771	IC-PST3424U-X	IC		
IC771	S-24CS16A01-G-X	IC		541E, 541EX, 541EY, 541EU, 547EE
IC771	S-24CS04AFJ-G-X	IC		544UI, 545U, 545UN, 545UT, 545UH, 546U, 546UN, 546UT, 546UH
IC801	74AHCT126PW-X	IC		541E, 541EX, 541EY, 541EU, 544UI, 545U, 545UN, 545UT, 545UH, 546U, 546UN, 546UT, 546UH
△ IC901	AN34001A	REGULATOR IC		
IC981	NJM2878F4-15-X	IC		
Q251	RT6N430C-X	TRANSISTOR		
Q321	RT6N430C-X	TRANSISTOR		
Q331	RT6N430C-X	TRANSISTOR		
Q341	RT6N430C-X	TRANSISTOR		
Q351	RT6N430C-X	TRANSISTOR		
Q501	2SA1705/ST-T	TRANSISTOR		
Q521	ISA1530AC1/R-X	TRANSISTOR		
Q521 or Q781	2SB709A/QR/-X	TRANSISTOR		541E, 541EX, 541EY, 541EU, 544UI, 545U, 545UN, 545UT, 545UH, 546U, 546UN, 546UT, 546UH, 547EE
Q781	RT1P141C-X	TRANSISTOR		
Q781 or Q782	UN2111-X	TRANSISTOR		
Q781 or Q784	DTA114EKA-X	TRANSISTOR		547EE
Q781 or Q784	RT6N430C-X	TRANSISTOR		
Q781 or Q784	RT1P141C-X	TRANSISTOR		
Q781 or Q784	UN2111-X	TRANSISTOR		
Q781 or Q785	DTA114EKA-X	TRANSISTOR		547EE
Q781 or Q785	RT1P141C-X	TRANSISTOR		
Q781 or Q785	UN2111-X	TRANSISTOR		
Q781 or Q891	DTA114EKA-X	TRANSISTOR		547EE
Q891	RT1N141C-X	TRANSISTOR		541E, 541EX, 541EY, 541EU, 547EE
Q891 or Q913	UN2211-X	TRANSISTOR		541E, 541EX, 541EY, 541EU, 547EE
Q891 or Q913	DTC114EKA-X	TRANSISTOR		547EE
Q913	RT1P141C-X	TRANSISTOR		
Q913 or Q914	UN2111-X	TRANSISTOR		
Q913 or Q914	DTA114EKA-X	TRANSISTOR		547EE
Q913 or Q914	RT1N141C-X	TRANSISTOR		
Q914	UN2211-X	TRANSISTOR		
Q914 or Q976	DTC114EKA-X	TRANSISTOR		547EE
Q976	RT1N141C-X	TRANSISTOR		
Q976 or Q977	UN2211-X	TRANSISTOR		
Q976 or Q977	DTC114EKA-X	TRANSISTOR		547EE
Q977	ISA1530AC1/R-X	TRANSISTOR		

△ Symbol No.	Part No.	Part Name	Description	Local
Q977	or 2SB709A/QR/-X	TRANSISTOR		541E, 541EX, 541EY, 541EU, 544UI, 545U, 545UN, 545UT, 545UH, 546U, 546UN, 546UT, 546UH, 547EE
Q977	or 2SB709A/R/-X	TRANSISTOR		
D1	MA111-X	SI DIODE		
D1 or D2	1SS355W-X	SI DIODE		
D2	MA111-X	SI DIODE		
D2 or D251	1SS355W-X	SI DIODE		
D251	MA111-X	SI DIODE		
D251 or D321	1SS355W-X	SI DIODE		
D321	MC2836-X	DIODE		
D321 or D331	MA152WA-X	DIODE		
D331	MC2836-X	DIODE		
D331 or D501	MA152WA-X	DIODE		
D501	1A3G-T1	SI DIODE		
D711	MA8062/M/-X	Z DIODE		541E, 541EX, 541EY, 541EU
D711 or D712	UDZW6.2B-X	Z DIODE		541E, 541EX, 541EY, 541EU
D712	MA111-X	SI DIODE		
D712 or D713	1SS355W-X	SI DIODE		
D713	MA8056/M/-X	Z DIODE		
D713 or D715	UDZW5.6B-X	Z DIODE		
D715	MA8062/M/-X	Z DIODE		
D715 or D716	UDZW6.2B-X	Z DIODE		
D716	MA8062/M/-X	Z DIODE		
D716 or D717	UDZW6.2B-X	Z DIODE		
D717	MA8062/M/-X	Z DIODE		
D717 or D718	UDZW6.2B-X	Z DIODE		
D718	MA8062/M/-X	Z DIODE		
D718 or D719	UDZW6.2B-X	Z DIODE		
D719	MA8033-X	Z DIODE		
D719 or D720	UDZW3.3B-X	Z DIODE		
D720	MA22D23-X	SB DIODE		
D720 or D782	CRS03-W	SB DIODE		
D720 or D784	RB160M-30-X	SB DIODE		
D782	MA111-X	SI DIODE		
D782 or D784	1SS355W-X	SI DIODE		
D784	MA8100/M/-X	Z DIODE		
D784 or D785	UDZW10B-X	Z DIODE		
D785	MC2836-X	DIODE		
D785 or D787	MA152WA-X	DIODE		
D787	MA111-X	SI DIODE		
D787 or D851	1SS355W-X	SI DIODE		
D851	MA22D23-X	SB DIODE		544UI, 545U, 545UN, 545UT, 545UH, 546U, 546UN, 546UT, 546UH
D851 or D852	CRS03-W	SB DIODE		544UI, 545U, 545UN, 545UT, 545UH, 546U, 546UN, 546UT, 546UH
D851 or D852	RB160M-30-X	SB DIODE		544UI, 545U, 545UN, 545UT, 545UH, 546U, 546UN, 546UT, 546UH
D852	MA22D39-X	SB DIODE		544UI, 545U, 545UN, 545UT, 545UH, 546U, 546UN, 546UT, 546UH
D891	MC2836-X	DIODE		541E, 541EX, 541EY, 541EU, 547EE
D891 or D901	MA152WA-X	DIODE		541E, 541EX, 541EY, 541EU, 547EE
△ D901	1N5401-F64	SI DIODE		
△ D901	or 1N5401-TU-15	SI DIODE		
D902	GS1J-X	DIODE		541E, 541EX, 541EY, 541EU, 547EE
D971	MA22D23-X	SB DIODE		
D971 or D972	CRS03-W	SB DIODE		
D971 or D972	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	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C3	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	541E,541EX,541EY,541EU,547EE	C319	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C3	NCB31HK-102X	C CAPACITOR	1000pF 50V K	544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH	C320	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C4	NCB31AK-224X	C CAPACITOR	0.22uF 10V K		C326	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C5	NDC31HJ-150X	C CAPACITOR	15pF 50V J		C365	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C6	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J		C366	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C7	NDC31HJ-220X	C CAPACITOR	22pF 50V J		C385	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C10	NCB21AK-105X	C CAPACITOR	1uF 10V K		C386	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
C11	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C501	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C12	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C503	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M	
C13	NCB21AK-105X	C CAPACITOR	1uF 10V K		C504	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C14	NCB31AK-224X	C CAPACITOR	0.22uF 10V K		C511	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C15	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C513	NCB31HK-682X	C CAPACITOR	6800pF 50V K	
C16	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C515	NCB31HK-122X	C CAPACITOR	1200pF 50V K	
C17	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C517	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C18	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C518	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C19	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		△ C521	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C22	NDC31HJ-120X	C CAPACITOR	12pF 50V J		C522	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C23	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C524	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C24	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C525	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C25	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C526	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C26	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M		C527	NCB31EK-332X	C CAPACITOR	3300pF 25V K	
C27	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M		C528	NDC31HJ-181X	C CAPACITOR	180pF 50V J	
C33	NDC31HJ-5R6X	C CAPACITOR	5.6pF 50V J		C529	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C71	NDC31HJ-561X	C CAPACITOR	560pF 50V J	541E,541EX,541EY,541EU,547EE	C530	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C72	NDC31HJ-331X	C CAPACITOR	330pF 50V J	541E,541EX,541EY,541EU,547EE	C531	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C73	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	541E,541EX,541EY,541EU,547EE	C532	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C74	NDC31HJ-330X	C CAPACITOR	33pF 50V J	541E,541EX,541EY,541EU,547EE	C533	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C75	NDC31HJ-330X	C CAPACITOR	33pF 50V J	541E,541EX,541EY,541EU,547EE	C534	NCB31EK-332X	C CAPACITOR	3300pF 25V K	
C76	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	541E,541EX,541EY,541EU,547EE	C535	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C77	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	541E,541EX,541EY,541EU,547EE	C536	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C78	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	541E,541EX,541EY,541EU,547EE	C537	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C120	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		C538	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C161	QTE1H57-105Z	E CAPACITOR	1uF 50V		C539	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C163	QTE1H57-105Z	E CAPACITOR	1uF 50V	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH	C540	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C164	QTE1H57-105Z	E CAPACITOR	1uF 50V		C541	NCB31EK-153X	C CAPACITOR	0.015uF 25V K	
C165	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C542	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C166	QTE1H57-105Z	E CAPACITOR	1uF 50V		C543	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C167	NCB31AK-474X	C CAPACITOR	0.47uF 10V K		C544	NCB31EK-823X	C CAPACITOR	0.082uF 25V K	
C168	NCB31AK-474X	C CAPACITOR	0.47uF 10V K		C545	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C169	NCB31EK-103X	C CAPACITOR	0.01uF 25V K		C546	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C171	QTE1H57-105Z	E CAPACITOR	1uF 50V		C547	QTE0J57-476Z	E CAPACITOR	47uF 6.3V	
C173	QTE1H57-105Z	E CAPACITOR	1uF 50V	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH	C548	QTE0J57-476Z	E CAPACITOR	47uF 6.3V	
C174	QTE1H57-105Z	E CAPACITOR	1uF 50V		C549	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C175	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		C551	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C177	NCB31AK-474X	C CAPACITOR	0.47uF 10V K		C552	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C178	NCB31AK-474X	C CAPACITOR	0.47uF 10V K		C583	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C180	QTE1A57-107Z	E CAPACITOR	100uF 10V		C584	NDC31HJ-821X	C CAPACITOR	820pF 50V J	
C181	QTE1C57-106Z	E CAPACITOR	10uF 16V		C585	QTE1H64-225Z	E CAPACITOR	2.2uF 50V	
C251	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M		C586	QTE1H64-225Z	E CAPACITOR	2.2uF 50V	
C301	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J		C587	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C302	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J		C588	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C303	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C590	QTE0J57-476Z	E CAPACITOR	47uF 6.3V	
C304	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C591	QTE1A57-107Z	E CAPACITOR	100uF 10V	
C308	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M		C592	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C311	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J		C703	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C312	QFV91HJ-474Z	MF CAPACITOR	0.47uF 50V J		C704	NDC31HJ-220X	C CAPACITOR	22pF 50V J	
C313	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C705	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C314	NDC31HJ-101X	C CAPACITOR	100pF 50V J		C706	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C315	QEKJ1HM-225Z	E CAPACITOR	2.2uF 50V M		C707	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	
C316	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M		C708	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C317	QTE1C57-106Z	E CAPACITOR	10uF 16V		C709	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
					C710	NDC31HJ-101X	C CAPACITOR	100pF 50V J	541E,541EX,541EY,541EU
					C711	QTE0J57-476Z	E CAPACITOR	47uF 6.3V	
					C712	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
					C714	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
					C715	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
					C717	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
					C718	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
					C719	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	
					C720	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
					C721	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
					C722	QEKJ1HM-475Z	E CAPACITOR	4.7uF 50V M	
					C726	NDC31HJ-391X	C CAPACITOR	390pF 50V J	
					C727	NDC31HJ-391X	C CAPACITOR	390pF 50V J	
					C728	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
					C729	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
					C771	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
C784	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M		R170	NRSA181J-221X	MG RESISTOR	220Ω 1/8W J	
C785	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M		R171	NRSA181J-221X	MG RESISTOR	220Ω 1/8W J	
C801	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	541E, 541EX, 541EY, 541EU, 544UI, 545U, 545UN, 545UH, 546U, 546UH, 546UT, 546UH	R172	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C851	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M		R173	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
C852	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	544UI, 545U, 545UN, 545UT, 545UH, 546U, 546UN, 546UT, 546UH	R174	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
C891	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	541E, 541EX, 541EY, 541EU, 547EE	R251	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C901	QEZ0870-278	E CAPACITOR	2700uF		R252	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C902	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M		R253	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
C903	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M		R305	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
C904	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M		R322	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C905	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M		R323	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C906	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R332	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C907	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M		R333	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C908	QEKJ1AM-227Z	E CAPACITOR	220uF 10V M		R342	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C909	QERF0JM-337Z	E CAPACITOR	330uF 6.3V M		R343	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C910	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M		R352	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
C911	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R353	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
C912	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R363	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C913	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M		R367	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C914	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M		R383	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C915	NCB31HK-104X	C CAPACITOR	0.1uF 50V K		R387	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
C916	NCB31HK-103X	C CAPACITOR	0.01uF 50V K		R500	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
C971	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R501	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
C982	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R502	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
C984	NCB31EK-104X	C CAPACITOR	0.1uF 25V K		R503	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	
C985	NCB21AK-225X	C CAPACITOR	2.2uF 10V K		R505	NRSA63J-113X	MG RESISTOR	11kΩ 1/16W J	
R1	NRSA63J-684X	MG RESISTOR	680kΩ 1/16W J	541E, 541EX, 541EY, 541EU, 547EE	R506	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	544UI, 545U, 545UN, 545UT, 545UH, 546U, 546UN, 546UT, 546UH	R507	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2	NRSA63J-684X	MG RESISTOR	680kΩ 1/16W J	541E, 541EX, 541EY, 541EU, 547EE	R508	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R2	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	544UI, 545U, 545UN, 545UT, 545UH, 546U, 546UN, 546UT, 546UH	R509	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J	
R4	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R510	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R5	NRS181J-220X	MG RESISTOR	22Ω 1/8W J		R511	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R6	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J		R512	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R7	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J		R513	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R11	NRS181J-4R7X	MG RESISTOR	4.7Ω 1/8W J		R514	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R71	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	541E, 541EX, 541EY, 541EU, 547EE	R515	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R72	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	541E, 541EX, 541EY, 541EU, 547EE	R516	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R73	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	541E, 541EX, 541EY, 541EU, 547EE	R517	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R74	NRSA02J-101X	MG RESISTOR	100Ω 1/10W J	541E, 541EX, 541EY, 541EU, 547EE	R518	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R76	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	541E, 541EX, 541EY, 541EU, 547EE	R519	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R81	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		R520	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	
R82	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		R521	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R91	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J		R522	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R92	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J		R524	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R120	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R525	NRS181J-101X	MG RESISTOR	100Ω 1/8W J	
R121	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J		R526	NRS181J-101X	MG RESISTOR	100Ω 1/8W J	
R122	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J		R527	NRS181J-101X	MG RESISTOR	100Ω 1/8W J	
R161	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R528	NRS181J-101X	MG RESISTOR	100Ω 1/8W J	
R162	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R529	NRS181J-101X	MG RESISTOR	100Ω 1/8W J	
R163	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R535	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R164	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R537	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R165	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R538	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R166	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R540	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R167	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R541	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R168	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R542	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R169	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J		R543	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
					R544	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
					R545	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
					R548	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
					R554	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	
					R556	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
					R558	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
					R559	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
					R565	NRS181J-151X	MG RESISTOR	150Ω 1/8W J	
					R566	NRS181J-100X	MG RESISTOR	10Ω 1/8W J	
					R583	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
					R584	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
					R585	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
					R586	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
					R587	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
					R588	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
					R589	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
					R590	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
					R591	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
					R592	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
					R593	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
					R594	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
					R701	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
R702	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R807	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
R703	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R807	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	547EE
R704	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R808	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
R705	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R809	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
R708	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	547EE	R810	NRS181J-332X	MG RESISTOR	3.3kΩ 1/8W J	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
R709	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	541E,541EX,541EY,541EU	R811	NRS181J-682X	MG RESISTOR	6.8kΩ 1/8W J	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
R712	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J		R811	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	547EE
R714	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R812	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
R722	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R812	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	547EE
R723	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R813	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
R724	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J		R813	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
R726	NRS181J-273X	MG RESISTOR	27kΩ 1/8W J		R813	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
R727	NRS181J-122X	MG RESISTOR	1.2kΩ 1/8W J		R813	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	547EE
R728	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J		R814	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
R729	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J		R819	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
R730	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J		R851	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
R731	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J		R891	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	541E,541EX,541EY,541EU,547EE
R736	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R892	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	541E,541EX,541EY,541EU,547EE
R737	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R901	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R738	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J		R902	NRSA02J-912X	MG RESISTOR	9.1kΩ 1/10W J	
R742	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		R903	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	
R744	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J		R904	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R745	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		R907	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R746	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		R908	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J		R971	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R748	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J		R972	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	
R752	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R976	NRSA02J-273X	MG RESISTOR	27kΩ 1/10W J	
R753	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		R977	NRSA02J-123X	MG RESISTOR	12kΩ 1/10W J	
R754	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		L1	NQL093K-R47X	COIL	0.47uH K	
R755	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		L2	NQL093K-1R8X	COIL	1.8uH K	
R756	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		L3	QQR1773-001	COIL		
R757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J		L4	QQR1813-001	COIL		
R758	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		L5	QQL244J-561Z	COIL	560uH J	
R760	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J		L6	QQL244J-561Z	COIL	560uH J	
R764	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J		L7	QQL244J-4R7Z	P COIL	4.7uH J	
R770	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	541E,541EX,541EY,541EU	L8	QQL244J-4R7Z	P COIL	4.7uH J	
R771	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J		L31	NQL093K-R47X	COIL	0.47uH K	
R772	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J		L120	NQR0007-002X	FERRITE BEADS		
R773	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	541E,541EX,541EY,541EU	L121	NQR0007-002X	FERRITE BEADS		
R774	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J		L122	NQR0007-002X	FERRITE BEADS		
R775	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J						
R779	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J						
R783	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J						
R785	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J						
R786	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J						
R801	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH					
R801	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	547EE					
R802	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH					
R802	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	547EE					
R803	NRS181J-682X	MG RESISTOR	6.8kΩ 1/8W J	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH					
R803	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	547EE					
R804	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH					
R805	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J						
R806	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH					
R806	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	547EE					

△ Symbol No.	Part No.	Part Name	Description	Local	△ Symbol No.	Part No.	Part Name	Description	Local
L701	QQL231K-4R7Y	INDUCTOR	4.7uH K		D6001	MA111-X	SI DIODE		
L702	QQL231K-4R7Y	INDUCTOR	4.7uH K		D6002	or 1SS355W-X	SI DIODE		
L901	QQR1809-001	CHOKE COIL			D6002	MA111-X	SI DIODE		
CN501	QGB2027M4-22S	CONNECTOR	B-B (1-22)		C601	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
CN701	QGB1004K1-22	CONNECTOR	B-B (1-22)		C602	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
CN901	QNZ0611-001	16P CONNECTOR			C603	NCB21AK-105X	C CAPACITOR	1uF 10V K	
J1	QNB0190-001	ANTENNA JACK			C604	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
J321	QNN0803-001	PIN JACK			C605	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
J702	QNS0283-001	STEERING REMOTE		541E,541EX,541EY,541EU	C611	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
J801	QNZ0095-001	CONNECTOR		541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH	R601	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
S701	QSW0648-001Z	TACT SWITCH			R602	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
S702	QSW0451-001	DETECT SW			R603	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
X1	QAX0928-001Z	CRYSTAL			R604	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
X71	QAX0926-001Z	CRYSTAL		541E,541EX,541EY,541EU,547EE	R605	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
X521	QAX0930-001Z	CRYSTAL			R606	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
X701	QAX0667-001Z	C RESONATOR	8.000MHz		R607	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
X702	QAX0401-001	CRYSTAL	32.768KHz		R608	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	

## Switch board

Block No. [0][2]

△ Symbol No.	Part No.	Part Name	Description	Local
IC601	PTC6526LQ-L	IC		
IC602	NJL29H380A	REMOCON RCV		
Q640	2SA1365/F/-X	TRANSISTOR		
Q641	RT1N141C-X	TRANSISTOR		
Q641	or UN2211-X	TRANSISTOR		
Q641	or DTC114EKA-X	TRANSISTOR		547EE
Q6001	or RT1N141C-X	TRANSISTOR		
Q6001	UN2211-X	TRANSISTOR		
Q6001	or DTC114EKA-X	TRANSISTOR		547EE
Q6002	2SA1365/F/-X	TRANSISTOR		
Q6003	2SA1365/F/-X	TRANSISTOR		
D601	CL-165HR/HG5-X	LED		
D602	CL-165HR/HG5-X	LED		
D603	SML-D12V8W/PQ-X	LED		
D604	CL-165HR/HG5-X	LED		
D605	CL-165HR/HG5-X	LED		
D606	CL-165HR/HG5-X	LED		
D607	CL-165HR/HG5-X	LED		
D608	CL-165HR/HG5-X	LED		
D609	CL-165HR/HG5-X	LED		
D610	CL-165HR/HG5-X	LED		
D611	CL-165HR/HG5-X	LED		
D612	CL-165HR/HG5-X	LED		
D613	CL-165HR/HG5-X	LED		
D614	CL-165HR/HG5-X	LED		
D615	LHQ974/LM/-X	LED		
D616	CL-165HR/HG5-X	LED		
D617	CL-165HR/HG5-X	LED		
D618	CL-165HR/HG5-X	LED		
D619	CL-165HR/HG5-X	LED		
D620	CL-165HR/HG5-X	LED		
D621	CL-165HR/HG5-X	LED		
D622	CL-197HG5-CD-X	LED		
D641	or UDW5.1B-X	Z DIODE		
D641	MA8051/M/-X	Z DIODE		
D642	or 1SS355W-X	SI DIODE		
D642	MA111-X	SI DIODE		
D645	NSPW310CS/BTUV/	WHITE LED		
D646	NSPW310CS/BTUV/	WHITE LED		
D6001	or 1SS355W-X	SI DIODE		

Symbol No.	Part No.	Part Name	Description	Local
R6001	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R6002	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R6003	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R6004	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
CN601	QGZ1201M1-17W	CONNECTOR	(1-17)	
EN601	QSW1231-001	ROTARY ENCODER		
J601	QNS0245-001	AUX JACK		541E,541EX, 541EY,541EU ,547EE
J601	QNS0215-001	AUX JACK		544U,545U,5 45UN,545UT, 545UH,546U, 546UN,546U T,546UH
S601	NSW0206-001X	TACT SWITCH		
S602	NSW0206-001X	TACT SWITCH		
S603	NSW0206-001X	TACT SWITCH		
S604	NSW0206-001X	TACT SWITCH		
S605	NSW0206-001X	TACT SWITCH		
S606	NSW0206-001X	TACT SWITCH		
S607	NSW0206-001X	TACT SWITCH		
S608	NSW0206-001X	TACT SWITCH		
S609	NSW0206-001X	TACT SWITCH		
S610	NSW0206-001X	TACT SWITCH		
S611	NSW0206-001X	TACT SWITCH		
S612	NSW0206-001X	TACT SWITCH		
S613	NSW0206-001X	TACT SWITCH		
S614	NSW0206-001X	TACT SWITCH		
S615	NSW0308-001X	TACT SWITCH		
S616	NSW0206-001X	TACT SWITCH		
S617	NSW0206-001X	TACT SWITCH		

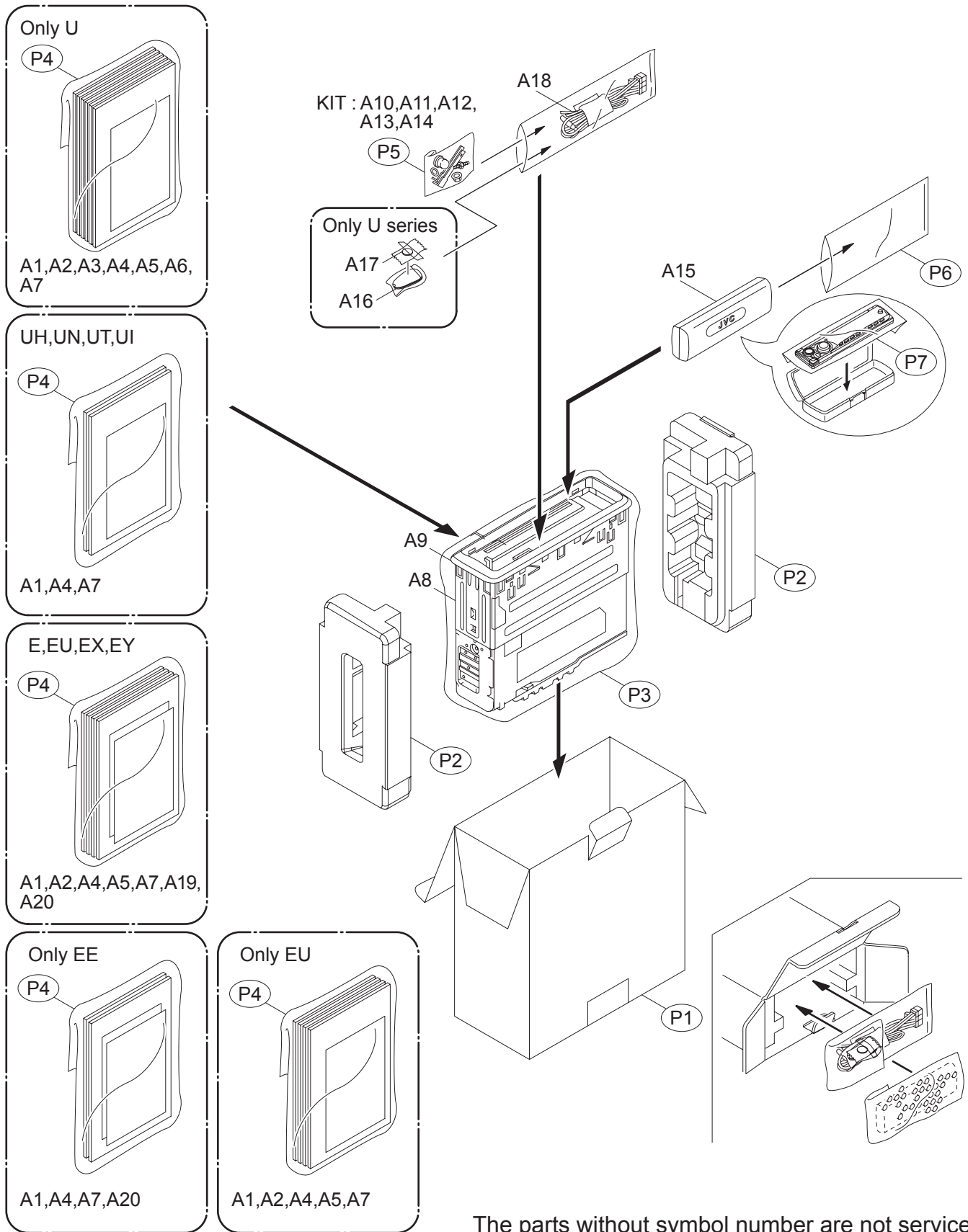
## Function board

Block No. [0][3]

Symbol No.	Part No.	Part Name	Description	Local
D2441	LHQ974/LM/-X	LED		
D2442	LHQ974/LM/-X	LED		
D2443	LHQ974/LM/-X	LED		
R2442	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R2443	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
CN741	QGB1004J2-22X	CONNECTOR	B-B (1-22)	
CN742	QGZ1201L1-17W	CONNECTOR	(1-17)	
S2441	NSW0246-001X	TACK SW		

<MEMO>

# Packing materials and accessories parts list





# Packing and Accessories

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

△ Symbol No.	Part No.	Part Name	Description	Local
A 1	GET0495-001A	INST BOOK	GER FRE ITA	541E
A 1	GET0495-003A	INST BOOK	ENG FRE	541EX,541EU
A 1	GET0495-006A	INST BOOK	ENG GER RUS	541EY
A 1	GET0497-001A	INST BOOK	ENG	544UI
A 1	GET0496-001A	INST BOOK	ENG THA	545U,545UH,546U,546UH
A 1	GET0496-004A	INST BOOK	ENG INA	545UN,546UN
A 1	GET0496-005A	INST BOOK	ENG CHI(TAIWAN)	545UT,546UT
A 1	GET0499-001A	INST BOOK	ENG RUS UKR	547EE
A 2	GET0495-002A	INST BOOK	SPA GRE POR	541E
A 2	GET0495-004A	INST BOOK	DUT SWE DAN FIN	541EX
A 2	GET0495-007A	INST BOOK	POL CZE HUN	541EY
A 2	GET0495-005A	INST BOOK	SPA TUR RUS PER	541EU
A 2	GET0496-002A	INST BOOK	KOR CHI(TAIWAN) ARA PER	545U,546U
A 3	GET0496-003A	INST BOOK	RUS	545U,546U
A 4	GET0495-008A	INST.MANUAL	GER FRE ITA	541E
A 4	GET0495-010A	INST.MANUAL	ENG FRE	541EX,541EU
A 4	GET0495-013A	INST.MANUAL	ENG GER RUS	541EY
A 4	GET0497-002A	INST.MANUAL	ENG	544UI
A 4	GET0496-006A	INST.MANUAL	ENG THA	545U,545UH,546U,546UH
A 4	GET0496-009A	INST.MANUAL	ENG INA	545UN,546UN
A 4	GET0496-010A	INST.MANUAL	ENG CHI(TAIWAN)	545UT,546UT
A 4	GET0499-002A	INST.MANUAL	ENG RUS UKR	547EE
A 5	GET0495-009A	INST.MANUAL	SPA GRE POR	541E
A 5	GET0495-011A	INST.MANUAL	DUT SWE DAN FIN	541EX
A 5	GET0495-014A	INST.MANUAL	POL CZE HUN	541EY
A 5	GET0495-012A	INST.MANUAL	SPA TUR RUS PER	541EU
A 5	GET0496-007A	INST.MANUAL	KOR CHI(TAIWAN) ARA PER	545U,546U
A 6	GET0496-008A	INST.MANUAL	RUS	545U,546U
A 7	LVT1672-002A	INST SHEET		541E,541EX,541EY,541EU,544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
A 8	GE20137-003A	MOUNTING SLEEVE		
A 9	GE20218-003A	TRIM PLATE		541E,541EX,541EY,541EU
A 9	GE20235-005A	TRIM PLATE		544UI,545U,545UN,545UT,545UH
A 9	GE20235-008A	TRIM PLATE		546U,546UN,546UT,546UH
A 9	GE20218-009A	TRIM PLATE		547EE
A 10	VKZ4027-202	PLUG NUT		
A 11	GE40426-002A	MOUNT BOLT		
A 12	VKZ4328-003	LOCK NUT		
A 13	QYWWS53A008ZA	WASHER	0mm/5.3mm x	
A 14	GE40130-002A	HOOK	(x2)	
A 15	GE32320-001A	HARD CASE ASSY		
A 16	RM-RK50C	REMOCON		544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
A 17	-----	BATTERY	3V	544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
A 18	QAM0463-002	16P CORD ASSY		541E,541EX,541EY,541EU,547EE
A 18	QAM1047-001	16P CORD ASSY		544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
A 19	VND3050-002	IDENTITY CARD		541E,541EX,541EY
A 20	-----	WARRANTY CARD	BT-54032-1	541E,541EX,541EY,547EE
KIT	SRW-MA372	SCREW PARTS KIT	A10 A11 A12 A13 A14	
P 1	GE32955-001A	CARTON		541E,541EX,541EY,541EU
P 1	GE32961-001A	CARTON		544UI
P 1	GE32958-001A	CARTON		545U,545UN,545UT,545UH
P 1	GE32964-001A	CARTON		546U,546UN,546UT,546UH
P 1	GE32967-001A	CARTON		547EE
P 2	GE10232-001A	EPS CUSHION		541E,541EX,541EY,541EU,547EE
P 2	GE10228-001A	EPS CUSHION		544UI,545U,545UN,545UT,545UH,546U,546UN,546UT,546UH
P 3	QPC03004315PB	POLY BAG	30cm x 43cm	
P 4	FSPG4002-001	POLY BAG		
P 5	QPA00801205	POLY BAG	8cm x 12cm	
P 6	QPA01003003	POLY BAG	10cm x 30cm	
P 7	QPC01002515	POLY BAG	10cm x 25cm	