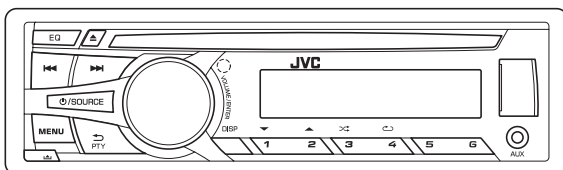




# SERVICE MANUAL

## CD RECEIVER

**KD-R450J, KD-R451E, KD-R451EN,  
KD-R451EU, KD-R451EY, KD-R452E,  
KD-R452EN, KD-R452EY, KD-R453E,  
KD-R453EN, KD-R453EY, KD-R454UI,  
KD-R455U, KD-R456U, KD-R456UT,  
KD-R457EE, KD-R459UR, KD-SR40J**

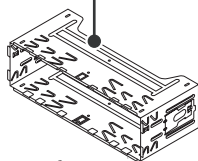


### DETACHABLE PANEL

Model	Parts number
KD-R450J	CP-R450JD
KD-R451E	CP-R451ED
KD-R451EN	CP-R451ED
KD-R451EU	CP-R451EUD
KD-R451EY	CP-R451ED
KD-R452E	CP-R452ED
KD-R452EN	CP-R452ED
KD-R452EY	CP-R452ED
KD-R453E	CP-R453ED

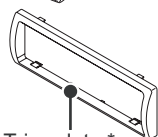
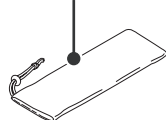
Model	Parts number
KD-R453EN	CP-R453ED
KD-R453EY	CP-R453ED
KD-R454UI	CP-R454UID
KD-R455U	CP-R455UD
KD-R456U	CP-R456UD
KD-R456UT	CP-R456UD
KD-R457EE	CP-R457EED
KD-R459UR	-
KD-SR40J	CP-SR40JD

Mounting sleeve  
(GE20362-001A)



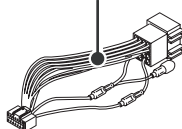
Hook  
(GE40685-001A) x2

Carrying case \*  
(GE40521-001A)

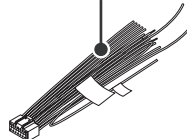


Trim plate \*  
(GE20363-00xA)

DC cord \*  
(QAM13xx-0xx)



DC cord \*  
(QAM1326-001)



Remocon unit (RM-RK52) \*  
(RM-RK52M)



\* It uses it by some models.  
Refer to the parts list.

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)

# SPECIFICATION

## For US

<b>TUNER</b>		
FM	Frequency Range	87.9 MHz to 107.9 MHz (200 kHz step) 87.5 MHz to 108.0 MHz (50 kHz step)
	Channel Space Selection	50 kHz/200 kHz
	Usable Sensitivity (S/N = 26 dB)	8.2 dBf (0.71 $\mu$ V/75 $\Omega$ )
	Quieting Sensitivity(DIN S/N = 46 dB)	17.2 dBf (2.0 $\mu$ V/75 $\Omega$ )
	Frequency Response ( $\pm 3$ dB)	30 Hz to 15 kHz
	Signal-to-Noise Ratio (MONO)	64 dB
	Stereo Separation (1 kHz)	40 dB
AM	Frequency Range	530 kHz to 1 700 kHz (10 kHz step) 531 kHz to 1 611 kHz (9 kHz step)
	Channel Space Selection	9 kHz/10 kHz
	Usable Sensitivity (S/N = 20 dB)	29 dB $\mu$ (28.2 $\mu$ V)
<b>CD player</b>		
Laser Diode		GaAlAs
Digital Filter (D/A)		8 times over sampling
Spindle Speed		500 rpm - 200 rpm (CLV)
Wow & Flutter		Below measurable limit
Frequency Response ( $\pm 1$ dB)		20 Hz - 20 kHz
Total Harmonic Distortion (1 kHz)		0.01%
Signal-to-Noise Ratio (1 kHz)		105 dB
Dynamic Range		90 dB
Channel Separation		85 dB
MP3 Decode		Compliant with MPEG-1/2 Audio Layer-3
WMA Decode		Compliant with Windows Media Audio
<b>USB</b>		
USB Standard		USB 1.1, USB 2.0 (Full speed)
Compatible Devices		Mass storage class
File System		FAT12/ 16/ 32
Maximum Supply Current		DC 5 V --- 1 A
MP3 Decode		Compliant with MPEG-1/2 Audio Layer-3
WMA Decode		Compliant with Windows Media Audio
WAV Decode		Linear-PCM
<b>Auxiliary</b>		
Frequency Response ( $\pm 3$ dB)		20 Hz - 20 kHz
Input Maximum Voltage		1 200 mV
Input Impedance		30 k $\Omega$
<b>Audio</b>		
Maximum Output Power		50 W $\times$ 4
Full Bandwidth Power(at less than 1 % THD)		22 W $\times$ 4
Speaker Impedance		4 $\Omega$ - 8 $\Omega$
Preout Level/Load (CD)		2 500 mV/10 k $\Omega$ load
Preout Impedance		$\leq$ 600 $\Omega$
<b>General</b>		
Operating Voltage (10.5 V - 16 V allowable)		14.4 V
Maximum Current Consumption		10A
Operating Temperature Range		0°C to + 40°C
Installation Size (W $\times$ H $\times$ D)		182 mm $\times$ 53 mm $\times$ 158 mm (7-3/16" $\times$ 2-1/8" $\times$ 6-1/4")
Weight		Except KD-SR40J : 1.2 kg (2.65 lbs) For KD-SR40J : 1.2 kg (2.7 lbs)

- Subject to change without notice.

# SPECIFICATION

## For Europe

<b>TUNER</b>		
FM	Frequency Range [Except KD-R457]	87.5 MHz to 108.0 MHz (50 kHz step)
	Frequency Range [KD-R457]	FM: 87.5 MHz to 108.0 MHz (50 kHz step) FM-Lo: 65.0 MHz to 74.0 MHz (30 kHz step)
	Usable Sensitivity (S/N = 26 dB)	0.71 $\mu$ V/75 $\Omega$
	Quieting Sensitivity(DIN S/N = 46 dB)	2.0 $\mu$ V/75 $\Omega$
	Frequency Response ( $\pm 3$ dB)	30 Hz to 15 kHz
	Signal-to-Noise Ratio (MONO)	64 dB
	Stereo Separation (1 kHz)	40 dB
AM	Frequency Range	MW : 531 kHz to 1 611 kHz (9 kHz step) LW : 153 kHz to 279 kHz (9 kHz step)
	Usable Sensitivity (S/N = 20 dB)	MW : 28.2 $\mu$ V LW : 50 $\mu$ V
<b>CD player</b>		
Laser Diode		GaAlAs
Digital Filter		8 times over sampling
Spindle Speed		500 rpm - 200 rpm (CLV)
Wow & Flutter		Below measurable limit
Frequency Response ( $\pm 1$ dB)		20 Hz - 20 kHz
Total Harmonic Distortion (1 kHz)		0.01%
Signal-to-Noise Ratio (1 kHz)		105 dB
Dynamic Range		90 dB
Channel Separation		85 dB
MP3 Decode		Compliant with MPEG-1/2 Audio Layer-3
WMA Decode		Compliant with Windows Media Audio
<b>USB</b>		
USB Standard		USB 1.1, USB 2.0 (Full speed)
Compatible Devices		Mass storage class
File System		FAT12/ 16/ 32
Maximum Supply Current		DC 5 V $\equiv$ 1 A
MP3 Decode		Compliant with MPEG-1/2 Audio Layer-3
WMA Decode		Compliant with Windows Media Audio
WAV Decode		Linear-PCM
<b>Auxiliary</b>		
Frequency Response ( $\pm 3$ dB)		20 Hz - 20 kHz
Input Maximum Voltage		1 200 mV
Input Impedance		30 k $\Omega$
<b>Audio</b>		
Maximum Output Power		50 W $\times$ 4
Output Power (DIN 45324, +B = 14.4 V)		30 W $\times$ 4
Speaker Impedance		4 $\Omega$ $\times$ 8 $\Omega$
Preout Level/Load (CD)		2 500 mV/10 k $\Omega$ load (full scale)
Preout Impedance		$\leq$ 600 $\Omega$
<b>General</b>		
Operating Voltage		14.4 V (10.5 V - 16 V allowable)
Maximum Current Consumption		10A
Operating Temperature Range		0°C to + 40°C
Installation Size (W $\times$ H $\times$ D)		182 mm $\times$ 53 mm $\times$ 158 mm
Weight		1.2 kg

- Subject to change without notice.

**For ASIA**

<b>TUNER</b>		
FM	Frequency Range	87.5 MHz to 108.0 MHz (50 kHz step)
	Usable Sensitivity (S/N = 26 dB)	8.2 dBf (0.71 $\mu$ V/75 $\Omega$ )
	Quieting Sensitivity(DIN S/N = 46 dB)	17.2 dBf (2.0 $\mu$ V/75 $\Omega$ )
	Frequency Response ( $\pm 3$ dB)	30 Hz to 15 kHz
	Signal-to-Noise Ratio (MONO)	64 dB
	Stereo Separation (1 kHz)	40 dB
AM	Frequency Range	Band 1 (MW): 531 kHz to 1 611 kHz (9 kHz step) Band 2 (SW1): 2 940 kHz to 7 735 kHz (5 kHz step) Band 3 (SW2): 9 500 kHz to 10 135 kHz (5 kHz step) / 11 580 kHz to 18 135 kHz (5 kHz step)
	Channel Space Selection	Band 1: 9 kHz Band 2/3: 5 kHz
	Usable Sensitivity (S/N = 20 dB)	29 dB $\mu$ (28.2 $\mu$ V) SW: 30 dB $\mu$ (32 $\mu$ V)
<b>CD player</b>		
Laser Diode		GaAlAs
Digital Filter (D/A)		8 times over sampling
Spindle Speed		500 rpm - 200 rpm (CLV)
Wow & Flutter		Below measurable limit
Frequency Response ( $\pm 1$ dB)		20 Hz - 20 kHz
Total Harmonic Distortion (1 kHz)		0.01%
Signal-to-Noise Ratio (1 kHz)		105 dB
Dynamic Range		90 dB
Channel Separation		85 dB
MP3 Decode		Compliant with MPEG-1/2 Audio Layer-3
WMA Decode		Compliant with Windows Media Audio
<b>USB</b>		
USB Standard		USB 1.1, USB 2.0 (Full speed)
Compatible Devices		Mass storage class
File System		FAT12/ 16/ 32
Maximum Supply Current		DC 5 V $\leq$ 1 A
MP3 Decode		Compliant with MPEG-1/2 Audio Layer-3
WMA Decode		Compliant with Windows Media Audio
WAV Decode		Linear-PCM
<b>Auxiliary</b>		
Frequency Response ( $\pm 3$ dB)		20 Hz - 20 kHz
Input Maximum Voltage		1 200 mV
Input Impedance		30 k $\Omega$
<b>Audio</b>		
Maximum Output Power		50 W $\times$ 4
Full Bandwidth Power(at less than 1 % THD)		22 W $\times$ 4
Speaker Impedance		4 $\Omega$ - 8 $\Omega$
Preout Level/Load (CD)		2 500 mV/10 k $\Omega$ load
Preout Impedance		$\leq$ 600 $\Omega$
<b>General</b>		
Operating Voltage (10.5 V - 16 V allowable)		14.4 V
Maximum Current Consumption		10A
Operating Temperature Range		0°C to + 40°C
Installation Size (W $\times$ H $\times$ D)		182 mm $\times$ 53 mm $\times$ 158 mm
Weight		1.2 kg

• Subject to change without notice.

# SECTION 1

## PRECAUTION

### 1.1 Safety Precautions

- (1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (▲) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- (4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

### 1.2 Warning

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

### 1.3 Caution

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

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

### 1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (■) and ICP (●) or identified by the "▲" mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.  
(This regulation dose not Except the J and C version)

## 1.5 Preventing static electricity

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

### 1.5.1 Grounding to prevent damage by static electricity

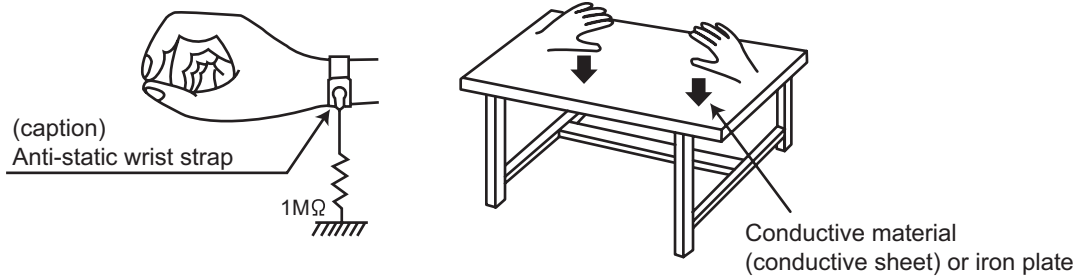
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products. Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench

Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself

Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup

- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

## 1.6 Handling the traverse unit (optical pickup)

(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.

(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.

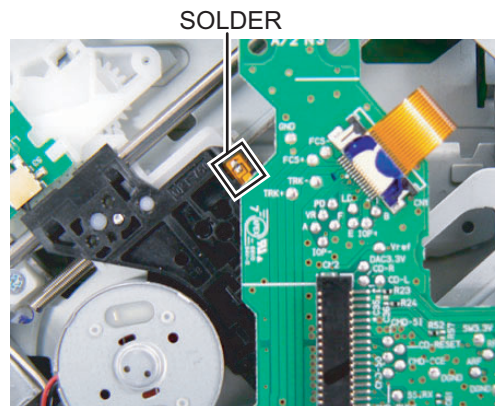
(3) Handle the flexible cable carefully as it may break when subjected to strong force.

(4) It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

## 1.7 Attention when traverse unit is decomposed

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

- Apply solder to the short land sections before the card wire is disconnected from the connector on the servo board. (If the card wire is disconnected without applying solder, the pickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land sections after connecting the card wire.



## 1.8 Important for laser products

### 1.CLASS 1 LASER PRODUCT

#### 2.CAUTION :

(For U.S.A.) Visible and/or invisible class II laser radiation when open. Do not stare into beam.

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

**3.CAUTION :** Visible and/or invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

**4.CAUTION :** This laser product uses visible and/or invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

(For U.S.A.)

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

(Others)

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

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

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

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

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

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

**VARO!** Avattaessa olet alttiina 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 가시 및/또는 비가시 클래스 1M 레이저 방사선이 나옵니다. 광학 기구로 직접 들여다보지 마십시오.

## SECTION 2

### SPECIFIC SERVICE INSTRUCTIONS

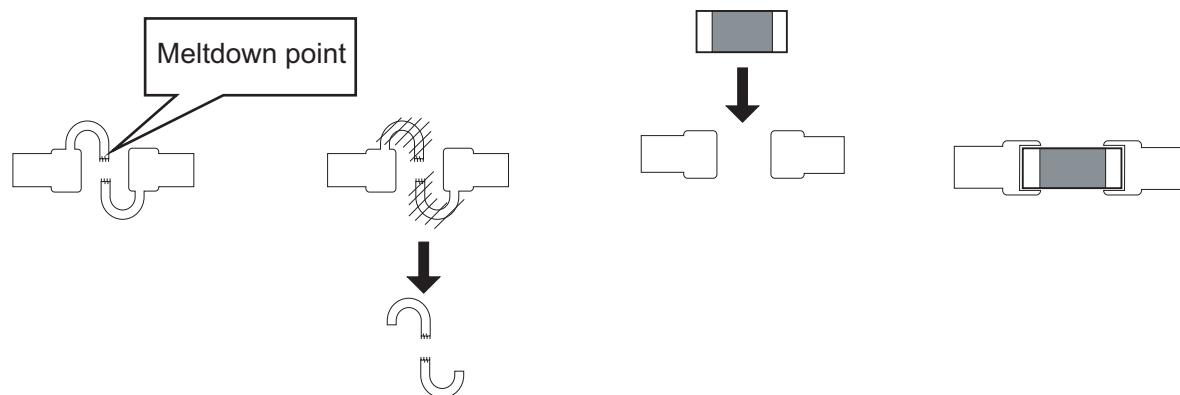
#### 2.1 How to repair a fuse pattern

##### 2.1.1 Purpose of fuse pattern

In order to prevent serious damage on the circuit, fuse pattern is prepared on the GND line of RCA Terminal. This damage may take due to improper part replacement with a external equipment via RCA line.

##### 2.1.2 Repair Procedure

- (1) Check the shorted circuit at the meltdown point.  
Need to clean up if the shorted circuit or carbonization happen at the fuse pattern.
- (2) Add following parts on the fuse pattern.
- (3) Check output level.



Parts Number	SPEC
F53-0513-08	4A

##### 2.1.3 After finished repair

Due to improper part replacement, this meltdown occurs.

Thus please notice following information when the unit is return to your customer.

Things to be checked before installing the unit.

- (1) Check the GND line of external amplifier or other equipment which must connect properly.
- (2) Check whether the GND line is not short-circuited with the battery terminal. (do not short-circuit these lines)

#### 2.2 MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Processing / Operation / Description
1	LCD_INH	O	LCD Reset	L: Reset ON / H: Reset OFF
2	BT_RST	O	BT Reset Output (For BT model)	L: Reset ON / H: Reset OFF
2	NC	O	No Use (For non BT model)	keep L output setting
3	PVcc	-	Power supply for I/O circuits	
4	NRST	O	LSI Reset Signal (L: Reset)	L: Reset ON / H: Reset OFF
5	Vss	-	GND	
6	PON_PANEL	O	Supply Control to Panel	L: ON / H: OFF (within 11minutes after Acc OFF: L / >11minutes after Acc OFF: H)
7	DC_ERR2	I	Detect DC Clip (for ST Power Amp IC)	L: DC Error ON / H: DC Error OFF
8	PWIC_MUTE	O	Muting Output for Power Amp IC	L: Mute ON / H: Mute OFF
9	LCD_CE	O	LCD Driver IC Chip Enable Output (for LCD Model)	
10	Vss	-	GND	
11	LCD_CLK	O	LCD CLK Output	
12	Vcc	-	Power supply	
13	RGB_CLK	O	I2C Clock Output for RGB Driver (For RGB Model)	



Pin No.	Pin Name	I/O	Application	Processing / Operation / Description
13	NC	O	No Use (for non RGB model)	
13	PCB_TEST_MODE_RX	I	PCB Test Mode RX	
14	LCD_DATA_OUT	O	LCD DATA Output (for LCD Model)	
14	LCD_RGB_DATA_OUT	O	LCD and RGB DATA Output (for RGB Model)	
14	PCB_TEST_MODE_TX	O	PCB Test Mode TX	
15	DEBUG_1B	O	For Debug	
16	PVcc	-	Power supply for I/O circuits	
17	BT_SYS_DATA	I	BT Data Input (For BT model only)	
17	NC	O	No Use (for non BT model)	
18	Vss	-	GND	
19	BT_BT_DATA	O	BT Data Output (For BT model only)	
19	NC	O	No Use (for non BT model)	
20	Vcc	-	Power supply	
21	DEBUG_1A	O	For Debug	
21	SXM_PWR	O	Power Supply for SXM (For SXM model only)	L: PWR Off / H: PWR On
22	SXM_RxD	I	SXM Data Input (For SXM model only)	
22	NC	O	No Use (for non SXM model)	
23	DEBUG_1C	O	For Debug	
23	SXM_TxD	O	SXM Data Output (For SXM model only)	
24	PWIC_STBY	O	Output to Power On Power Amp IC	L: Standby / H: Play
25	PON_USB	O	Enable Output for High Side Switch	L: HisideSW OFF / H: HisideSW ON
26	PON_DCDC6V	O	Enable Output for DC-DC Regulator	
27	PSW	I	CD Mecha Position Setting SW (Reset Switch)	
28	PVcc	-	Power supply for I/O circuits	
29	FREQ_SEL	O	Frequency Select	Pulse: Power On / L: Power Off
30	Vss	-	GND	
31	ENC2	I	Volume Encoder Pulse Input 2	
32	ENC1	I	Volume Encoder Pulse Input 1	
33	REMO	I	Remocon Input	L (Pulse): Remote control data / H: Standby
34	LCD_DATA_IN	I	LCD DATA Input (for LCD Model)	
35	SW1	I	CD Mecha SW1	
35	DEBUG_2A	O	For Debug	
36	PVcc	-	Power supply for I/O circuits	
37	CKIO	O	No Use (System Clock Output to External Devices [for LCD Model])	
38	Vss	-	GND	
39	RESET	I	Reset Input	
40	Vss	-	GND	
41	PLLvcc	-	Power supply for PLL	
42	PAN_DET	I	Panel Detection input	L: Panel Attached / H: Panel Detached
42	NC	I	No Use (for non detachable model)	

Pin No.	Pin Name	I/O	Application	Processing / Operation / Description
43	Vcc	-	Power supply	
44	EXTAL	I	High Speed Clock 12MHz	
45	XTAL	O	High Speed Clock 12MHz	
46	Vss	-	GND	
47	Vss	-	GND	
48	PVcc	-	Power supply for I/O circuits	
49	D-0	I/O	USB Data- 0	
50	D+0	I/O	USB Data+ 0	
51	ASEMD	I	ASE Mode Select Pin	
52	STEERING_REMO1	I	OE Remote In 1 (for DOP models)	
52	NC	I	No Use (For KWD Model)	
53	STEERING_REMO2	I	OE Remote In 2 (for DOP models)	
53	NC	I	No Use (For KWD Model)	
54	STAGE2	I	Model Selecting Input 2	
55	STAGE1	I	Model Selecting Input 1	
56	TEL_MUTE	I	Tel Mute Detection Input (for JVC Model)	
56	LINE_MUTE	I	Line Mute Detection Input (For KWD Model)	
56	NC	I	No Use (For non support Tel mute model)	
57	DC_ERR1	I	Detect DC Offset Error from EVOL IC	L:DC Error ON / H:DC Error OFF
58	Avss	-	GND	
59	Avcc	-	Power Supply	
60	Avref	-	Reference Power Supply	
61	TRST	I	Debugging Interface. Reset Input.	
62	ASEBRKAK/ASEBRK	I/O	Emulator Break Mode Acknowledge/Break Input	
63	TDO	O	Debugging Interface. Serial Output for Instructions and Data	
64	TDI	I	Debugging Interface. Serial Input for Instructions and Data	
65	TMS	I	Debugging Interface. Test Mode Select Signal Input.	
66	TCK	I	Debugging Interface. Test Clock Input.	
67	NC	O	No Use	
68	NC	I	No Use	
69	PVcc	-	Power supply for I/O circuits	
70	SPBCLK	O	FLASH SPI Multi I/O Bus Clock output	
71	Vss	-	GND	
72	SPBSSL	O	FLASH SPI Multi I/O Bus Slave Select Output	
73	SPBIO0	I/O	FLASH SPI Multi I/O Bus I/O Data 0	
74	SPBIO1	I/O	FLASH SPI Multi I/O Bus I/O Data 1	
75	SPBIO2	I/O	FLASH SPI Multi I/O Bus I/O Data 2	
76	Vss	-	GND	
77	SPBIO3	I/O	FLASH SPI Multi I/O Bus I/O Data 3	
78	Vcc	-	Power supply	
79	MD_CLK	I	Clock Mode Set (Power ON Reset) EXTAL Pin Input Clock Ranges from 10 to 12 MHz	
80	MD_BOOT	I	BOOT Mode Set	L: Boot mode 0 / H: Boot mode 1
81	DRV_MUTE	O	Motor Driver Mute Control Signal	L: Output OFF (mute)/ H: Output ON (not mute)

Pin No.	Pin Name	I/O	Application	Processing / Operation / Description
81	DEBUG_2C	O	For Debug	
82	PVcc	-	Power supply for I/O circuits	
83	REG2-1	O	Control Output for CTRL2 from regulator IC	
84	Vss	-	GND	
85	BT_MUTE	I	BT Mute	L: Mute OFF / H: Mute ON
85	NC	O	No Use (For non BT model)	keep L output setting
86	Vcc	-	Power supply	
87	REG1-1	O	Control Output for CTRL1 from regulator IC	
88	REG1-2	O	Control Output for CTRL1 from regulator IC	
89	REG2-2	O	Control Output for CTRL2 from regulator IC	
90	MUTE	O	Muting Output for Evol & Line Out	L: Mute ON / H: Mute OFF
91	SCL_EVOL	I/O	I2C Clock 240kHz for E-Vol	
91	SCL_EP	I/O	I2C Clock 240kHz for E2PROM	
91	SCL_TU	I/O	I2C Clock 240kHz for Tuner	
92	SDA_EVOL	I/O	I2C Data for E-Vol	
92	SDA_EP	I/O	I2C Data for E2PROM	
92	SDA_TU	I/O	I2C Data for Tuner	
93	IPOD_SCL	O	iPod Authentication IC I2C Clock	Clock speed 23kHz
93	NC	O	No Use (For non-iPod Model)	
94	IPOD_SDA	O	iPod Authentication IC I2C Data	
94	NC	O	No Use (For non-iPod Model)	
95	NC	O	No Use	
96	ILM_SW	O	Enable Output for ILL 11V	L: ILM SW OFF / H: ILM SW ON
97	CD_DSP_SW	O	CD DSP Switch	L: Other sources / H: CD USB SD source
98	DIM_IN	I	Dimmer Control Input (for JVC Model)	L: Dimmer Detect ON / H: Dimmer Detect OFF
98	NC	O	No Use (For KWD Model)	keep L output setting
99	PS1	I	Power Save 1 (ACC Detection)	L: Acc ON / H: Acc OFF
100	Vss	-	GND	
101	PVcc	-	Power supply for I/O circuits	
102	PS2	I	Power Save 2 (BU Detection)	L: Battery ON / H: Battery OFF
103	BCLK	I	Servo DSP Data Bit Clock	
104	LRCK	I	Servo DSP Data Word Clock	
105	SRDATA	I	Servo DSP Data Input	
106	SRDATIN	O	Servo DSP Data Output	
107	Vss	-	GND	
108	MCLK	O	Microcontroller Command Clock Signal	
109	Vcc	-	Power supply	
110	MDATA	O	Microcontroller Command Data Signal	
111	MLD	O	Microcontroller Command Load Signal	
112	PVcc	-	Power supply for I/O circuits	
113	STAT	I	DSP Status Signal	
114	Vss	-	GND	
115	DRV_CNT	O	Loading Motor Control Output	
116	BEEP	O	Output for Beep Tone Generator	H(Pulse): BEEP / L: OFF

Pin No.	Pin Name	I/O	Application	Processing / Operation / Description
117	DRV_Lo/Ej	O	Loading Motor Control Output	
118	PCB_TEST_MODE	I	PCB Test Mode Switch	L: Normal Mode / H: Check Mode (After Reset software need to check the pin input. If detect high it should enter Serial Number mode)
119	SW2	I	CD Mecha SW2	
119	DEBUG_2B	O	For Debug	
119	Field Test 2	O	RDS data log output (standby for field test)	
120	BLKCK	I	Sub-Code Block Clock Signal	
120	Field Test 1	O	RDS data log output (standby for field test)	

## SECTION 3 DISASSEMBLY

### 3.1 Main body

#### 3.1.1 Removing the Front chassis assy (See Fig.1)

- (1) Disengage the 4 hooks **a**, and remove the Front chassis assy.

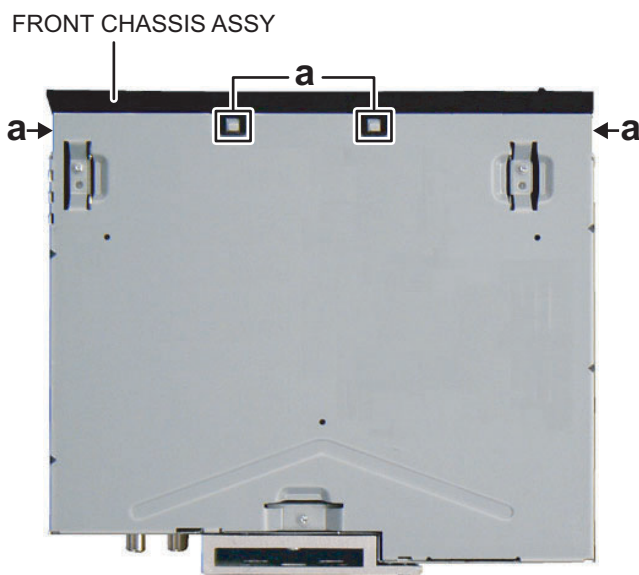


Fig.1

- (2) Remove the 2 screws **C**. (See Fig.3)

- (3) Disengage the 3 hooks **b**, and remove the Bottom cover. (See Fig.3)

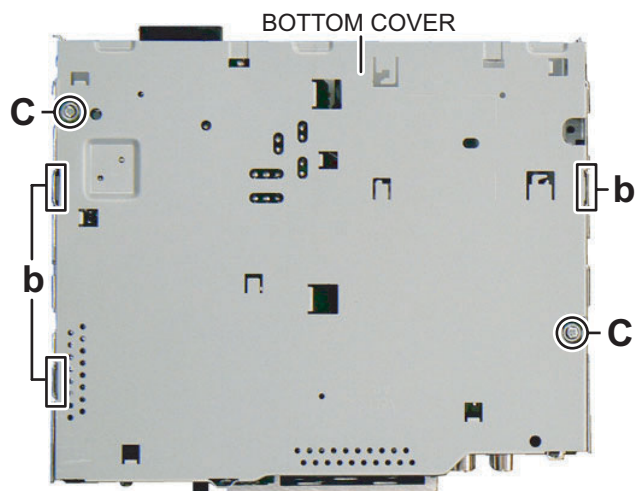


Fig.3

#### 3.1.2 Removing the Main pwb ass'y (See Fig.2 to 5)

- (1) Remove the 1 screw **A** and 2 screws **B**. (See Fig.2)

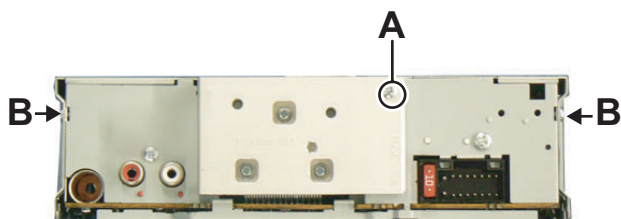


Fig.2

(4) Disconnect the FFC wire from connector [CN1](#). (See Fig.4)

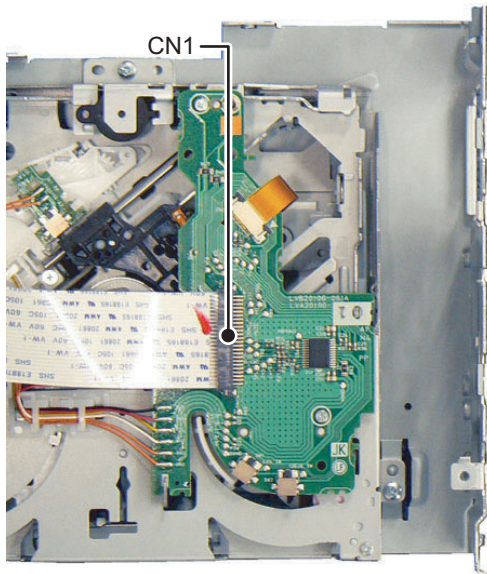


Fig.4

(5) Disengage the 2 hooks **c**, and remove the Main pwb ass'y. (See Fig.5)

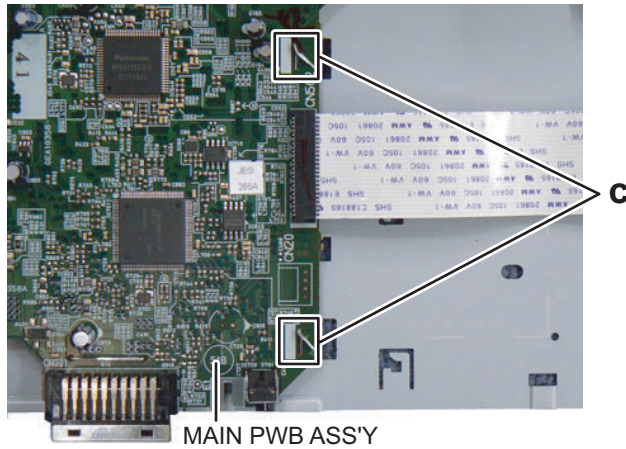


Fig.5

### 3.1.3 Removing the CD mechanism (See Fig.6)

(1) Remove the 3 screws **D**, and remove the CD mechanism. (See Fig.6)

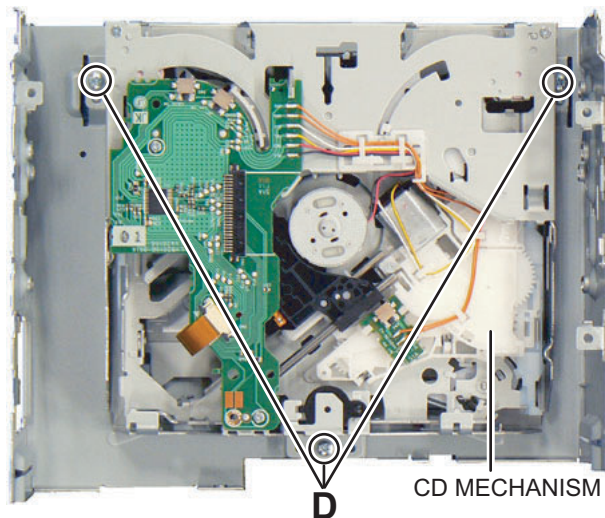


Fig.6

### 3.1.4 Removing the Switch pwb ass'y (See Fig.8)

- (1) Remove the Volume knob.
- (2) Remove the 3 screws **E**.
- (3) Disengage the 13 hooks **d**, and remove the Rear cover.

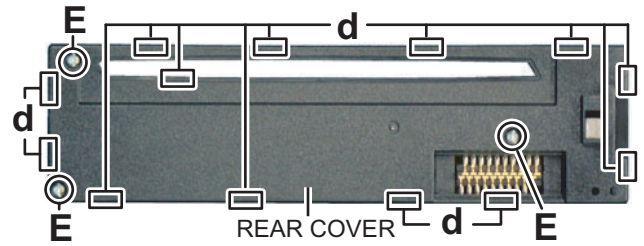


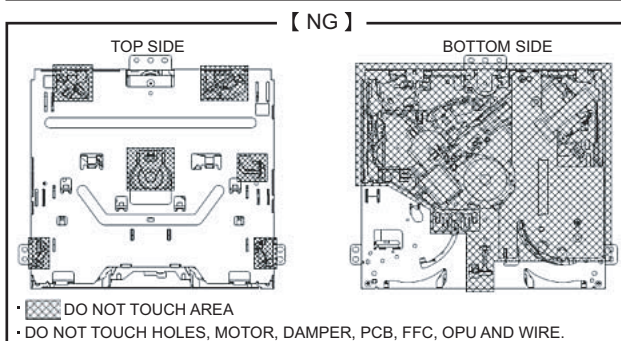
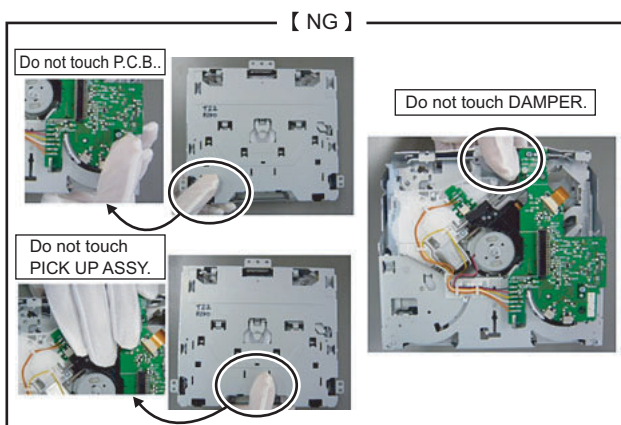
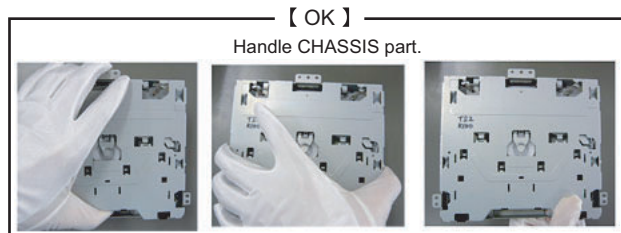
Fig.8

(4) Remove the Switch pwb ass'y.



### 3.2 CD mechanism

#### • NOTICE FOR HANDRIG OF MECHANISM ASSY



#### • THESE PARTS NEED CAUTION OF HANDLING

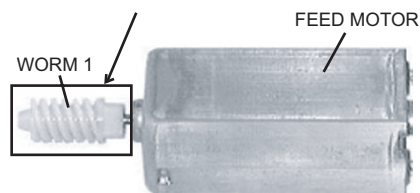
##### CAUTION:

Don't touch the following parts in particular by the hand which touched grease. (It becomes a cause of traction problem)

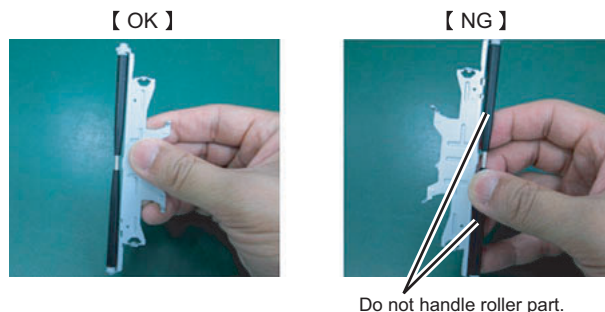
CAUTION PARTS	
HC TURN TABLE	TRIGGER ARM
ROLLER	DISC GUIDE

#### • NOTICE FOR HANDRIG OF FEED MOTR ASSY

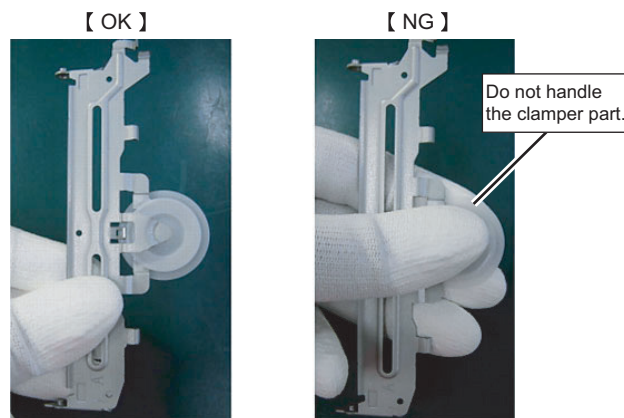
CAUTION: For mounting FEEDMOTOR ASSY, DON'T bump this part. Because handling may cause this part easily deformed.



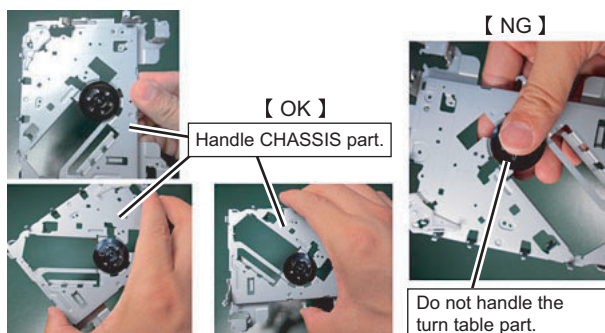
#### • NOTICE FOR HANDRIG OF ROLLER LEVER ASSY



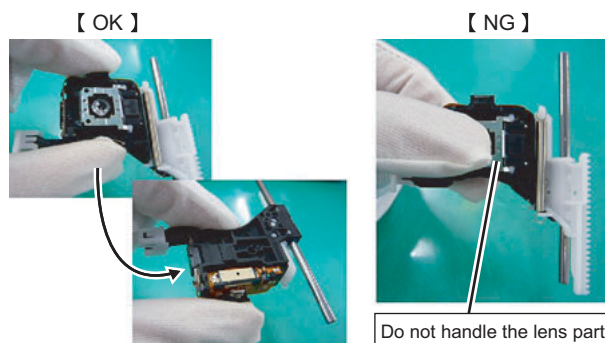
#### • NOTICE FOR CLAMPER ASSY OF PICK UP ASSY



#### • NOTICE FOR HANDRIG OF MD CHASSIS ASSY



#### • NOTICE FOR HANDRIG OF PICK UP ASSY



### 3.2.1 Removing the CD Player unit (See Fig.1 to 3)

- (1) Solder the short land on the Pickup. (See Fig.1)

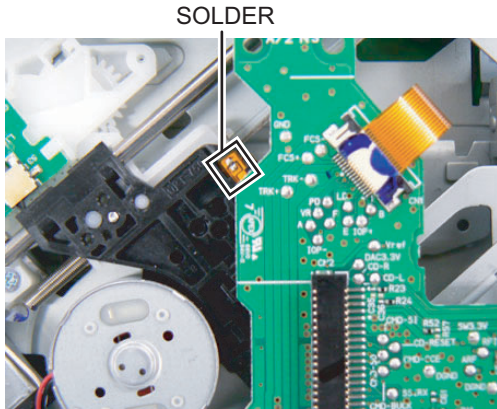


Fig.1

- (2) Remove the 6 wires from the CD Player unit. (See Fig.2)

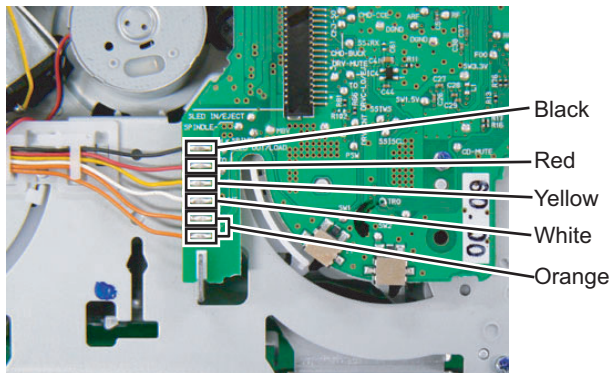


Fig.2

- (3) Disconnect the FPC wire from the connector **CN1** (CD Player unit). (See Fig.3)
- (4) Remove the 3 screws **A** attaching the CD Player unit. (See Fig.3)
- (5) Remove the CD Player unit. (See Fig.3)

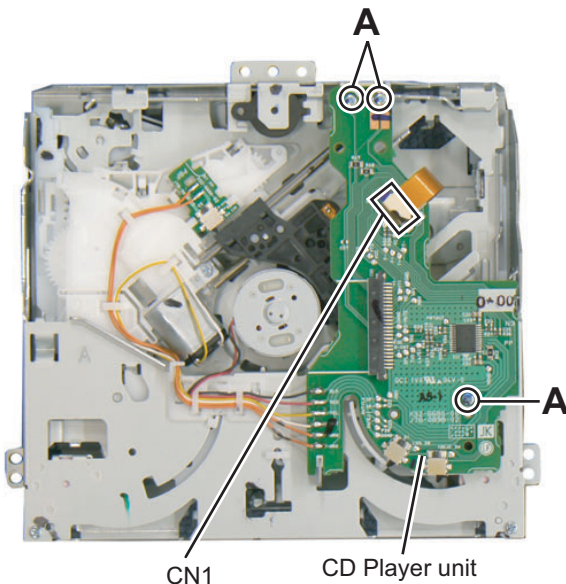


Fig.3

### 3.2.2 Removing the Traverse mechanism (See Fig.4, 5)

- (1) Remove the 4 springs from the traverse mechanism. (See Fig.4)

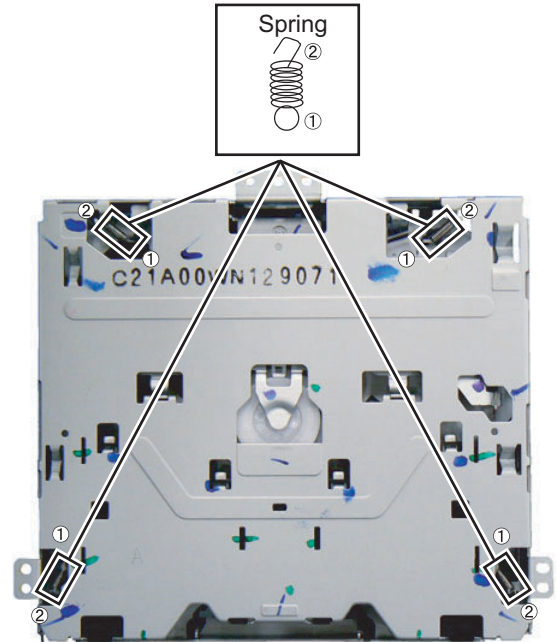


Fig.4

- (2) Remove the 2 screws **B** attaching the Lower chassis. (See Fig.5)
- (3) Remove the Damper in the direction of the arrow. (See Fig.5)
- (4) Remove the Traverse mechanism. (See Fig.5)

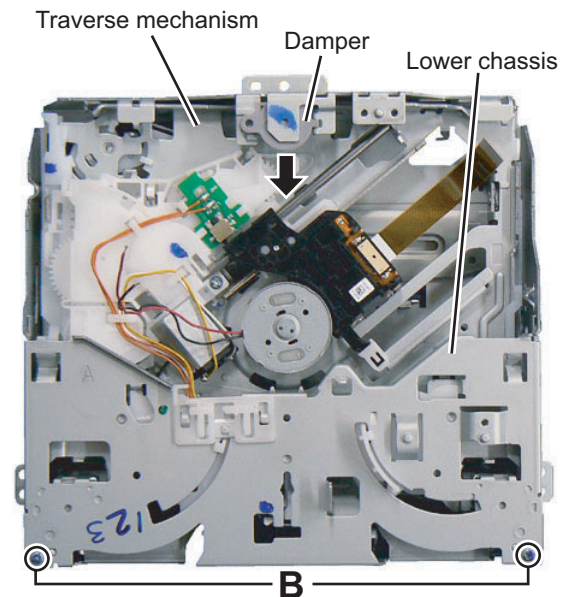
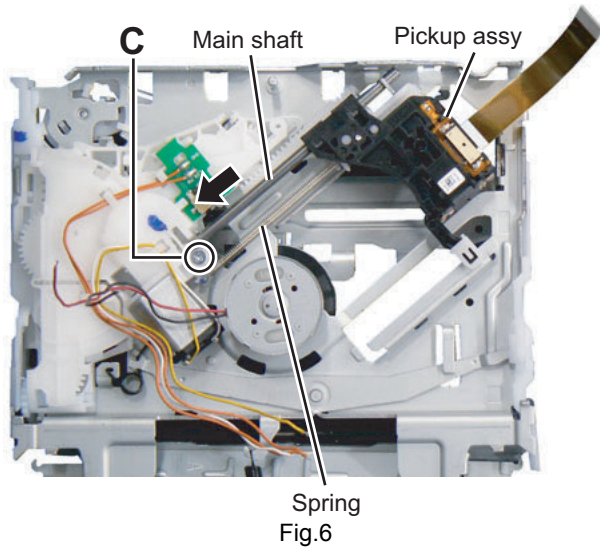


Fig.5



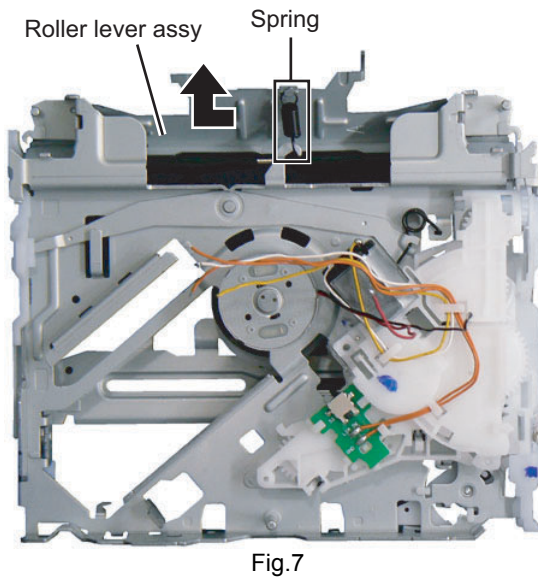
### 3.2.3 Removing the Pickup assy (See Fig.6)

- (1) Remove the 1 screw **C**.
- (2) Remove the Main shaft in the direction of the arrow.
- (3) Remove the Spring.
- (4) Remove the Pickup assy.



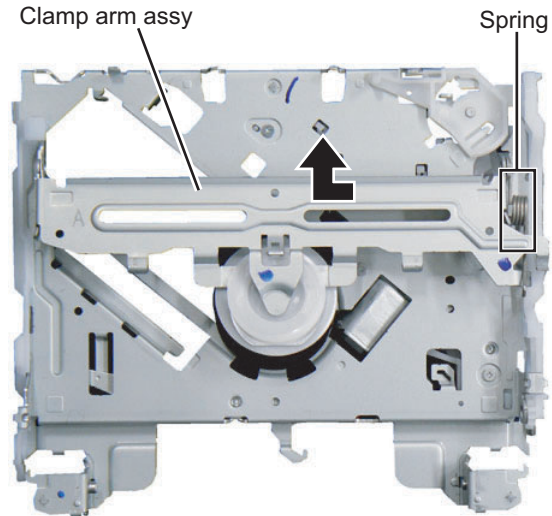
### 3.2.4 Removing the Roller lever assy (See Fig.7)

- (1) Remove the Spring.
- (2) Remove the Roller lever assy in the direction of the arrow.



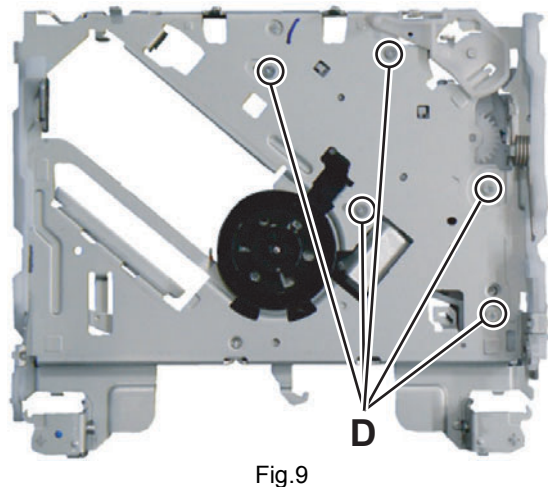
### 3.2.5 Removing the Clamp arm assy (See Fig.8)

- (1) Remove the Spring.
- (2) Remove the Clamp arm assy in the direction of the arrow.

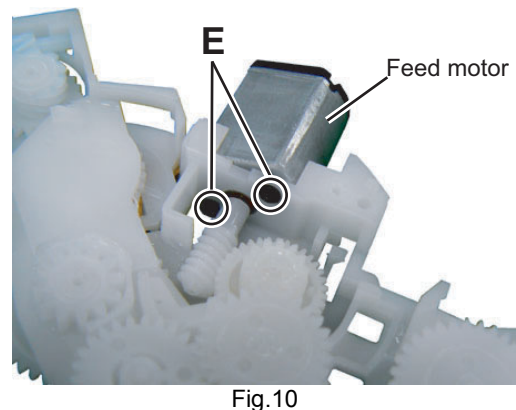


### 3.2.6 Removing the Feed motor (See Fig.9, 10)

- (1) Remove the 5 screws **D** attaching the Feed motor assy. (See Fig.9)



- (2) Remove the 2 screws **E** attaching the Feed motor. (See Fig.10)
- (3) Remove the Feed motor. (See Fig.10)





## SECTION 4 ADJUSTMENT

### 4.1 Service Test mode

#### 4.1.1 Default status immediately after the mode activation

Operating Key: [MENU] + [◀] (7sec) Press and hold.

#### 4.1.2 How to release each Test mode

- Reset
- Acc off
- Power off
- Panel Detach

#### 4.1.3 Mode content

Syscon shall display the following information after entering this mode. The operation shown below shall be workable.

Display content	Detail
[S] [R] [V] [ ] [T] [E] [S] [T] [ ] [ ] [ ]	The display is released when another operation is executed.

#### 4.1.4 Common operation mode for all sources

■ means Press and hold.

Operation	Display content		Detail
EQ/ PHONE*/ iPOD*/ DAB*(◆)	CD error information display mode	Transit to CD error information display mode	
MENU	Syscon version display	[S] [Y] [S] [ ] [#] [ @ ] [ @ ] [ @ ] [ ] [ ] [ ]	# = Display of destination. J = USA R = EUROPE E = EASTERN-EUROPE U = OTHERS(e.g. ASIA) @@@ = Syscon version number
2	Power ON duration display	[P] [O] [N] [T] [M] [ ] [0] [H] [X] [X] [ ]	00 - 50 are displayed in " XX ". For less than 1 hour, the display is indicated per 10 minutes.
		[P] [O] [N] [T] [M] [ ] [X] [X] [X] [X] [X]	00001 - 10922 are displayed in " XXXXX ". MAX 10922 (hours).
■2	Power ON duration clear	[P] [O] [N] [T] [M] [ ] [0] [H] [0] [0] [ ]	Clear Power ON duration by pressing for 2 seconds when Power ON duration is displayed.
1(*) (◆)	Disc operation duration display	[C] [D] [T] [M] [ ] [ ] [0] [H] [X] [X] [ ]	00 - 50 are displayed in " XX ". For less than 1 hour, the display is indicated per 10 minutes. (Not applicable for mechaless models)
		[C] [D] [T] [M] [ ] [ ] [X] [X] [X] [X] [X]	00001 - 10922 are displayed in " XXXXX ". MAX 10922 (hours). (Not applicable for mechaless models)
■1(*) (◆)	Disc operation duration clear	[C] [D] [N] [T] [M] [ ] [0] [H] [0] [0] [ ]	Clear Disc operation duration by pressing for 2 seconds when it is displayed (Only the displayed media is cleared).(Not applicable for mechaless models) For less than 1 hour, the display is indicated per 10 minutes.
DISP(◆)	Disc eject number of times	[E] [J] [C] [N] [T] [ ] [X] [X] [X] [X] [X]	00001 - 99999 are displayed in " XXXXX "
■DISP (◆)	Disc eject number of times clear	[E] [J] [C] [N] [T] [ ] [0] [0] [0] [0] [0]	Clear Disc Eject number of times by pressing for 2 seconds when it is displayed.

\*This includes all media (CD, USB, iPod, SD) action duration.

◆ Not applicable for mechaless models

#### 4.1.5 CD Error Information Display Mode (Not applicable for mechaless models)

Operation	Display content		Detail
Move between DISP  (Forward search) item with  [◀] / [▶]	CD mecha error log display	<div>M E C H A   E R # X X</div>	Mecha error history 1,2,3 (latest) # = History No. (1,2,3) XX : kind of errors, " -- " when there is none. 00: No Error 04: TOC read Error 05: Unknown CD 06: Heat Error 0A: Update Error 0D: Hold Error 15: Unknown Disc 99: Mecha Error
	CD load error information display	<div>L O A D   E R # X X</div>	Load error switch 1,2 # = History No. (1,2) XX: numbers of errors, " -- " when there is none History No. 2 is un-used
	CD eject error information display	<div>E J E C T   E R # X X</div>	Eject error switch 1,2,3,4 # =History No. (1,2,3,4) XX: numbers of errors, " -- "when there is none History No.3 is un-used History No.1: Eject before SW1 is on. History No.2: Eject until SW1 and SW2 is on. History No.3: Eject between SW2 on and Eject end
	CD time code error count information display (count skip)	<div>C N T   L O S E   X X</div>	CD-DA error count number information
		<div>C D D A   X X</div>	CD-DA error count numbers XX: numbers of errors and " -- " when there is none Can only be checked via debugger by jap member
		<div>C D R O M   X X</div>	CD-ROM (compressed file) error count numbers XX: numbers of errors and " -- " when there is none Can only be checked via debugger by jap member
	CD time code error count information display (no count update)	<div>C N T   S T A Y   X X</div>	CD time code error count information (count not updated) mode display
		<div>C D D A   X X</div>	CD-DA error count numbers XX: numbers of errors and " -- " when there is none
		<div>C D R O M   X X</div>	CD-ROM (compressed file) error count numbers XX: numbers of errors and " -- " when there is none
	CD error information clear	<div>M E C H A   E R 1 - -</div>	Clear CD error information by pressing for 2 seconds when it is displayed.
EQ/ PHONE*/ iPOD*/ DAB*	Mode release	CD error information display mode release	Back to default status, All lights on

\*Only for model without EQ key

## 4.2 Service Information Clear Mode

### 4.2.1 Default status immediately after the mode activation

\* The receiver is connected with the DC power supply (with the power supply turned off).

Operating Key: [BACK] + [POWER] Press and hold + DC power supply turned ON

### 4.2.2 How to release each Test mode

Cleared information changes will take place only after reset.

### 4.2.3 Mode content

After entering this mode, Syscon shall clear the information stored for service and output the result to the display tube.

CD will be ejected upon process ended.

Preset Frequencies and Tagging (HD models) information shall be cleared.

Display content	Detail
I N I T I A L I Z E	Data Clear in Progress (Only application for BT model)
D A T A C L R O K	When normal end
D A T A C L R N G	When error end Display blinks with 250ms interval.

The following table shows the data that is cleared.

Information for data clearing	Detail	Storage area
CD mecha information	CD mecha log display	E2PROM
	CD load error information display	E2PROM
	CD eject error information display	E2PROM
	CD time code error count information display (count skip)	E2PROM
	CD time code error count information display (no count update)	E2PROM
Service information	Power ON duration display	E2PROM
	CD operation duration display	E2PROM
	CD EJECT number of times display	E2PROM
	Force Power OFF information display	E2PROM
DC error information	DC error 1 display (wrong connection & other detection information in detecting duration)	E2PROM
	DC error 2 display (capacitor leakage detection number information)	E2PROM
Preset information	Tuner Area Setting	E2PROM
	Preset Frequency	E2PROM
	Preset PI code	E2PROM
	Preset HD Station Name and Sub-Channel Number (HD models)	E2PROM
Sirius XM information	SXM Preset Channel SID	E2PROM
	SXM Lock Channel SID	E2PROM
	SXM Channel Lock Code	E2PROM
	SXM Mature Channel Setting	E2PROM
Tagging information (HD models)	Token data memory index	E2PROM
Bluetooth information (Sent Initialize command to BT Module)	Pairing Information	FLASH ROM in BT Module
	Phonebook Entries of unit	FLASH ROM in BT Module
	Call History information of unit	FLASH ROM in BT Module
DAB Information	DAB Preset Service ID	E2PROM
	DAB Preset Channel ID & Sub Channel ID	E2PROM

### 4.3 DC error information mode

#### 4.3.1 Default status immediately after the mode activation

\* The receiver is connected with the DC power supply (with the power supply turned off).

Operating Key: [MENU] + [▶▶] Press and hold + DC power supply turned ON

#### 4.3.2 How to release each Test mode

- Reset
- Acc off
- Power off
- Panel Detach

#### 4.3.3 Mode content

Syscon shall display the following information after entering this mode. The operation shown below shall be workable.

Display content	Detail
D C □ □ E R R □ □ □ □	When DC error is detected (in case that one of capacitor leakage, wrong connection or other detection is found).
D C □ □ O K □ □ □ □ □	When DC error is not detected (in case that none of capacitor leakage, wrong connection or other detection is found).







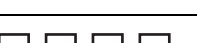
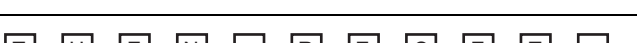
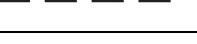
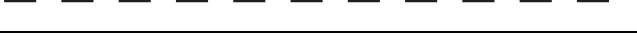






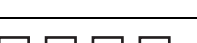
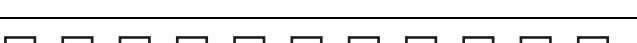
#### 4.3.4 Mode operation specification

■ means Press and hold

Operation	Display content										Detail
FSKIP	DC ERR1 display	D	C	1	□	E	R	R	□	□	When wrong connection & DC error in other detection duration is detected.
		D	C	1	□	O	K	□	□	□	When wrong connection & DC error in other detection duration is not detected.
■FSKIP	DC ERR1 clear	D	C	1	□	O	K	□	□	□	Clear detection information when wrong connection & DC error in other detection duration is displayed.(Clear data flash)
BSKIP	DC ERR2 display	D	C	2	□	4	□	□	□	□	Display detecting number of times in capacitor leakage detection duration (0 - 4)
■BSKIP	DC ERR2 clear	D	C	2	□	0	□	□	□	□	Clear number of times for detection information in capacitor leakage detection duration.(Clear data flash)

#### 4.4 DC offset error description

##### 4.4.1 Indication of DC Offset

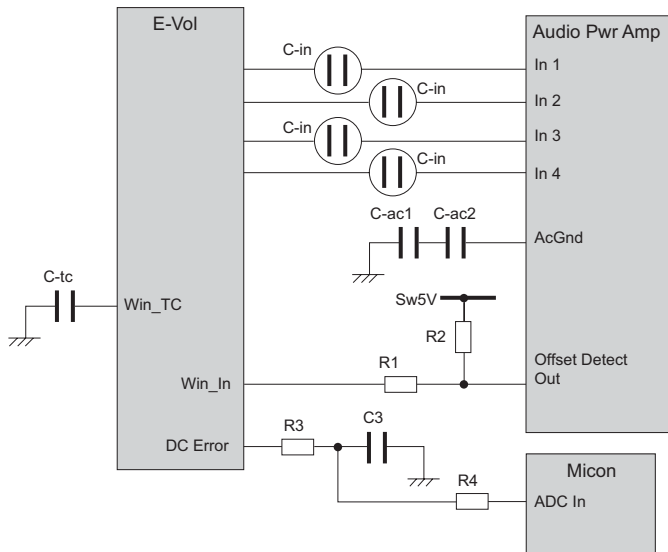
Display Mode	Display Character	3-DIGIT DISPLAY 	11-DIGIT DISPLAY 	Comment
DC Offset	[DC 1 Error] MISWIRING			Display for 2 sec
	[DC 1 Error] CHK WIRING			Display for 2 sec
	[DC 1 Error] THEN RESET			Display for 2 sec
	[DC 1 Error] UNIT			Display for 2 sec Then loop to "MISWIRING"
	[DC 2 Error] WARNING			Display for 2 sec
	[DC 2 Error] CHK WIRING			Display for 2 sec
	[DC 2 Error] THEN RESET			Display for 2 sec
	[DC 2 Error] UNIT			Display for 2 sec Then loop to "WARNING"

##### 4.4.2 DC offset detection circuit design

- Purpose:  
To prevent breakdown, burning and emitting smoke from customer's car speaker when occur DC offset between speaker output "+" and "-".
- Target:  
Detect DC offset, then stop the Power Amp operation and shift to specified condition.

##### 4.4.3 Possible causes of DC offset at speaker output lines

- Mis-connection for speaker output for example touch to car body or battery line.
- Current leak of coupling capacitor for Power IC input.
- Current leak of Ac-GND capacitor for Power IC Ac-GND.
- Capacitor shorted of above parts due to foreign object.

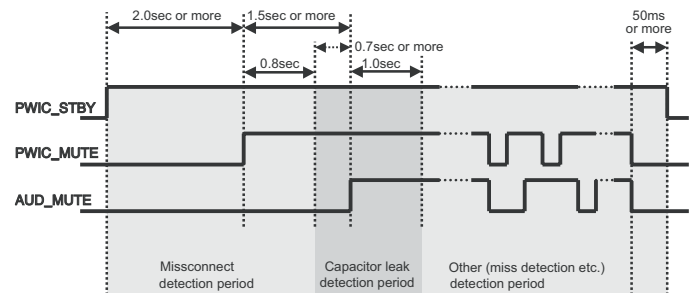


##### 4.4.4 Type of checking

###### 4.4.4.1 To detect DC offset Error

- Mis-connection
  - Short any one speaker out line to GND or Vcc
- Capacitor leak
  - Parallel 330kΩ to either any one of coupling cap or Ac-GND cap (to simulate current leakage of capacitor)
  - Shorted either any one of coupling cap or Ac-GND cap.

##### 4.4.5 Detection Timing chart



#### 4.4.6 Manipulate after detect DC offset

- If detected error 10 consecutive times, and 10th error occurred in "Mis-connect detection period", judge as "Mis-connect".
- If detected error 10 consecutive times, and 10th error occurred in "Capacitor leak detection period", judge as "Capacitor leak".
- If detected error 10 consecutive times, and 10th error occurred in "Other detection period" and detected another 10 errors consecutively, then judge as "Other".
- If judge as "Mis-connect".
  - turn off speaker output.
  - display "MIS WIRING" → "CHK WIRING" → "THEN RESET" → "UNIT".
  - key access disable except button of Eject, Reset and service mode
- If judge as "Capacitor leak".
  - record error in EEPROM "DC1 ERR"
  - Set is able to be recovered by Reset button.
- If judge as "Capacitor leak".
  - turn off speaker output.
  - display "WARNING" → "CHK WIRING" → "THEN RESET" → "UNIT".
  - key access disable except button of Eject, Reset and service mode
  - record error in EEPROM "DC2 #" (# means counter number)
  - Set can be recovered by pressing the Reset button before the capacitor leak error counter reach "DC2 4".  
After that, only clear the counter back to "0" can recover the set.
- If judge as "Other" (manipulation same as mis-connect)

## SECTION 5 TROUBLESHOOTING

### 5.1 How to cancel DC offset error

Check to be sure the terminals of the speaker leads are covered with insulating tape properly, then reset the unit.  
If an error message does not disappear even after a reset, there is a need for internal repair.

### 5.2 How to clear DC offset error recorded in EEPROM

DC Error Information Mode is started.

[MENU] + [▶▶] Press and hold + DC power supply turned ON

DC1 ERR → [▶▶] Press and hold.→ DC1 OK

DC2 0-4 → [◀◀] Press and hold.→ DC1 0





**JVC KENWOOD Corporation**  
Car Electronics Consumer Division 2967-3, Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525, Japan





# SCHEMATIC DIAGRAMS

## CD RECEIVER

KD-R450J	KD-R451E	KD-R451EN
KD-R451EU	KD-R451EY	KD-R452E
KD-R452EN	KD-R452EY	KD-R453E
KD-R453EN	KD-R453EY	KD-R454UI
KD-R455U	KD-R456U	KD-R456UT
KD-R457EE	KD-R459UR	KD-SR40J



## ■ PRECAUTIONS ON SCHEMATIC DIAGRAMS

- Due to the improvement in performance, some part numbers shown in the circuit diagrams may not agree with those indicated in the Parts List.
- The parts numbers, values and rated voltage etc. in the Schematic Diagrams are for reference only.
- Since the circuit diagrams are standard ones, the circuits and circuit constants may be subject to change for improvement without any notice.

## ■ PRECAUTIONS ON PARTS LIST

- The parts identified by the  $\triangle$  symbol are critical for safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.
- When ordering chips, screws etc., place bulk orders (unit of tens) whenever possible to improve shipping efficiency.
- There are cases where the actual implemented parts in the sets and the service parts are different. When ordering parts, make sure to refer to the Parts List.

## ■ PRECAUTIONS ON SERVICE

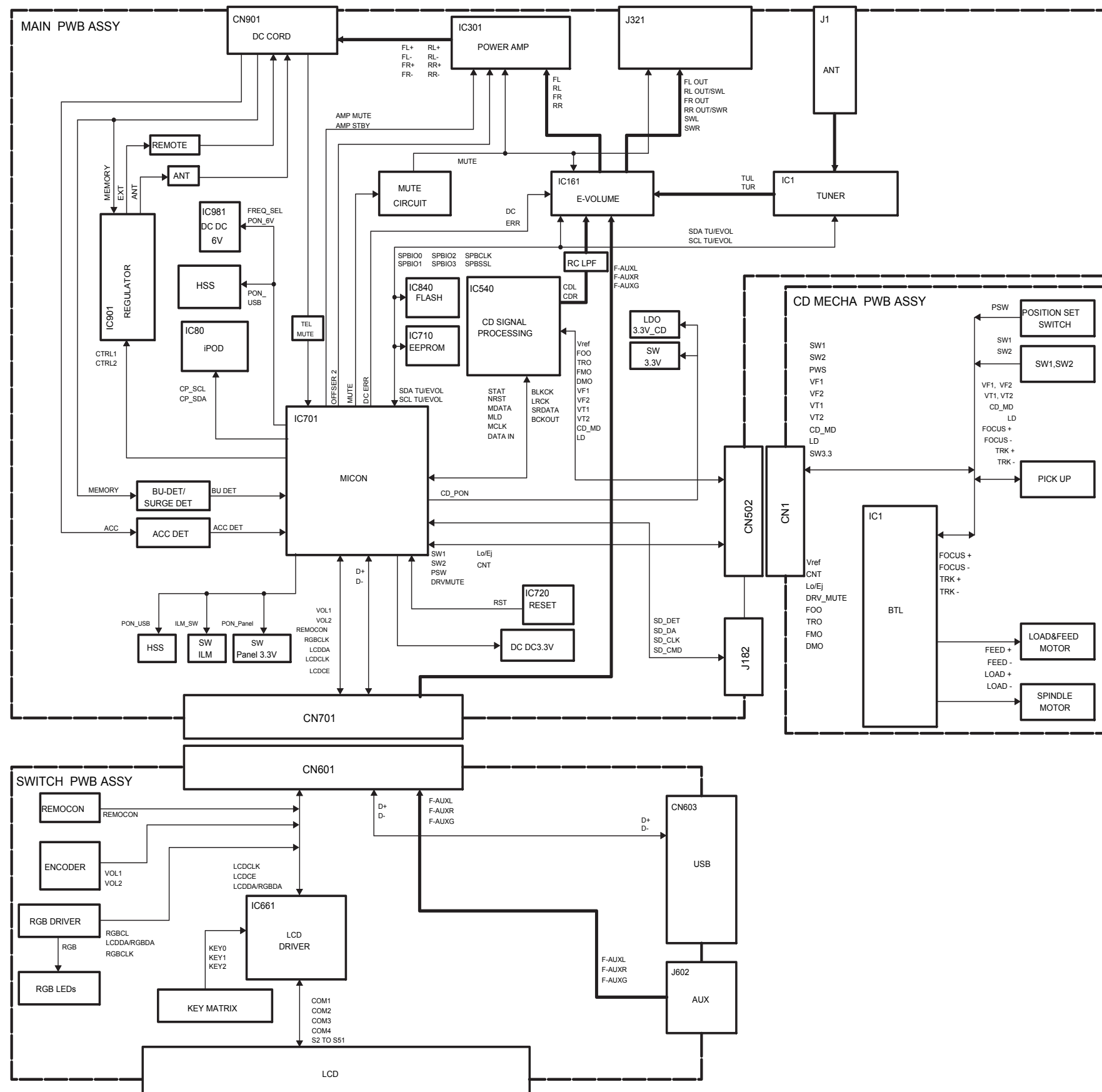
Certain parts of the power circuits and the GNDs differ according to the models. Care must be taken for the following points as the differences are indicated separately in the LIVE GND () and the ISOLATED (NEUTRAL) GND ()

1. Do not touch the LIVE GND, or do not touch the LIVE GND and the ISOLATED (NEUTRAL) GND at the same time. It may cause an electric shock.  
Before pulling out the chassis or other parts, make sure to pull out the power cord from the wall outlet first.
2. Do not short circuit between the LIVE GND and ISOLATED (NEUTRAL) GND, or never measure the LIVE GND and ISOLATED (NEUTRAL) GND at the same time using measuring instruments (oscilloscope, etc.). It may blow fuses or damage other parts.

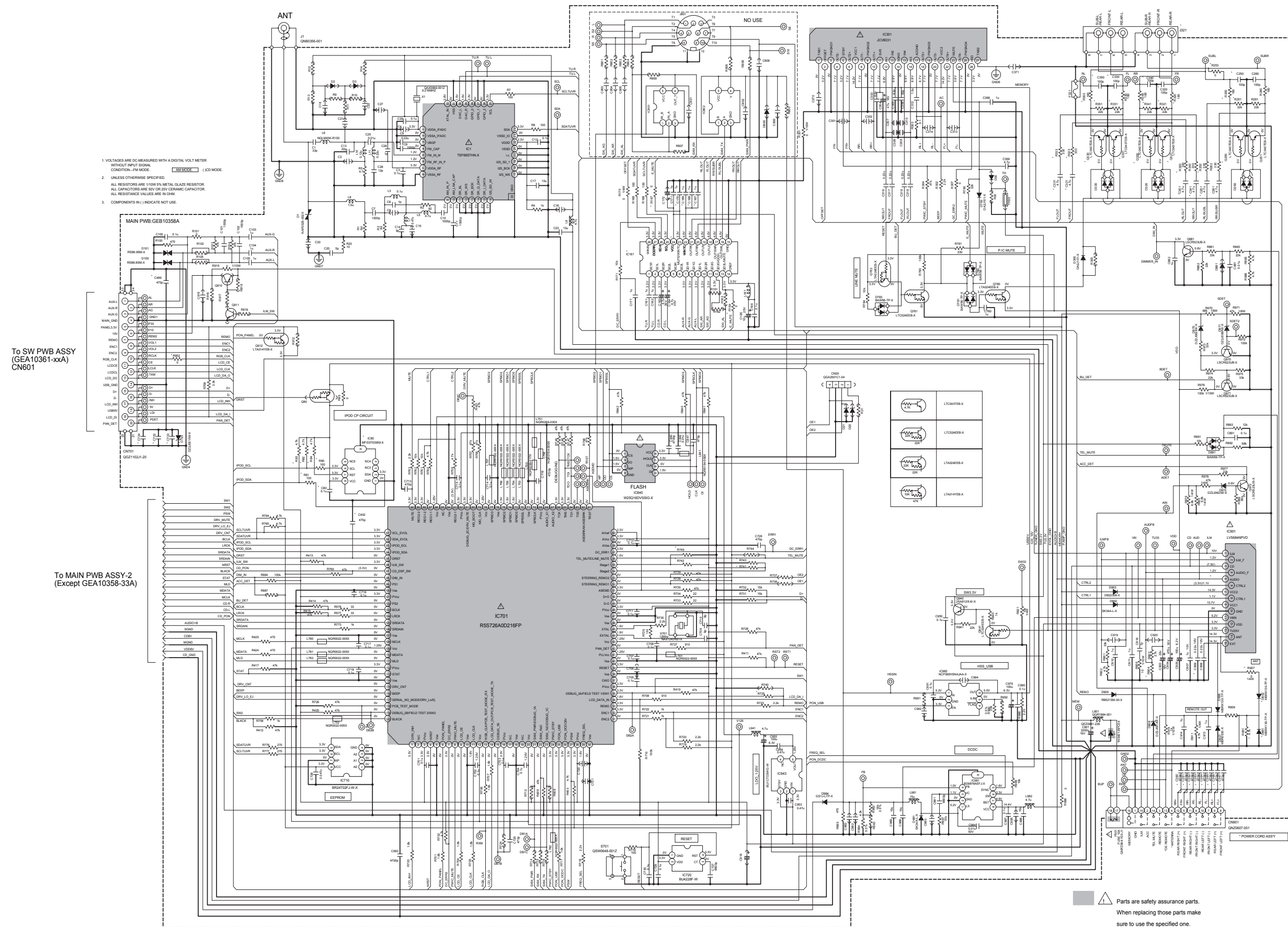
## ■ DEVIATION TOLERANCE RANGE

DEVIATION TOLERANCE RANGE									
F	G	J	K	M	N	R	H	Z	P
± 1%	± 2%	± 5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

### BLOCK DIAGRAM



# MAIN PWB ASSY-1 (Except GEA10358-33A)



MAIN PWB ASSY-2 (Except GEA10358-33A)

*MODELS		KD-R450J KD-SR40J	KD-R456U KD-R455U KD-R454UI	KD-R451E KD-R451EU KD-R452E	KD-R453E	KD-R457EE	KD-AR555J	KD-R556U	KD-R551E KD-R551EU	KD-R557EE	KD-R650J KD-SR60J	KD-R656U	KD-R651E	KD-R750J	KD-AR755J	KD-R756U	KD-R751E	KD-R757EE
STAGE 1	R742	NIL	39K	27K	27K	22K	NIL	39K	27K	22K	NIL	39K	27K	NIL	NIL	39K	27K	22K
	R745	47K	8.2K	22K	22K	27K	47K	8.2K	22K	27K	47K	8.2K	22K	47K	47K	8.2K	22K	27K
	PIN55	0V	0.6V	1.5V	1.5V	1.8V	0V	0.6V	1.5V	1.8V	0V	0.6V	1.5V	0V	0V	0.6V	1.5V	1.8V
STAGE 2	R741	NIL	NIL	NIL	22K	NIL	39K	39K	39K	39K	33K	33K	33K	27K	22K	27K	27K	27K
	R743	47K	47K	47K	27K	47K	8.2K	8.2K	8.2K	8.2K	15K	15K	15K	22K	27K	22K	22K	22K
	PIN54	0V	0V	0V	1.8V	0V	0.6V	0.6V	0.6V	0.6V	1.0V	1.0V	1.0V	1.5V	1.8V	1.5V	1.5V	1.5V

*MODELS		KD-R456U KD-R455U KD-R454UI KD-R556U KD-R656U KD-R756U	KD-R450J KD-R451E KD-R451EU KD-R452E KD-R453E KD-R457EE KD-AR555J KD-R551E KD-R551EU KD-R557EE	KD-R650J KD-R651E KD-R750J KD-R755J KD-R751E KD-R757EE KD-SR40J KD-SR60J
ANT CONTROL	R907	O		X
	D852	O		X
	D851	O		X
	R851	O		X
	C909	O		X

*MODELS		KD-AR755J	KD-R450J KD-R456U KD-R455U KD-R454UI KD-R451E KD-R451EU KD-R452E KD-R453E KD-R457EE KD-AR555J KD-R556U KD-R551E KD-R551EU	KD-R557EE KD-R650J KD-R651E KD-R750J KD-R755J KD-R751E KD-R757EE KD-SR40J KD-SR60J
EVOL	IC161	TDA720B-X		TDA7718B-X
	C167	X		O
	C168	X		O
	R167	X		O
	R164	O		X
IC901 PIN5 VOLT.	R904	3.3K		4.7K
	V	11.5		8.5
IC161 VOLT.	PIN24	11.5		8.5
CD ANALOG SUPPLY	R591	680		430

*MODELS		KD-R650J KD-R656U KD-R651E KD-R750J KD-AR755J KD-R756U KD-R751E KD-R757EE KD-SR60J	KD-R450J KD-R456U KD-R455U KD-R454UI KD-R451E KD-R451EU KD-R452E KD-R453E	KD-R557EE KD-R555J KD-R556U KD-R551E KD-R551EU KD-R557EE KD-SR40J
IPOD	R80	O		X
	R81	O		X
	R82	O		X
	R83	O		X
	R84	O		X
	C80	O		X
EMC	IC80	O		X
	C402	O		X
C489	O			X

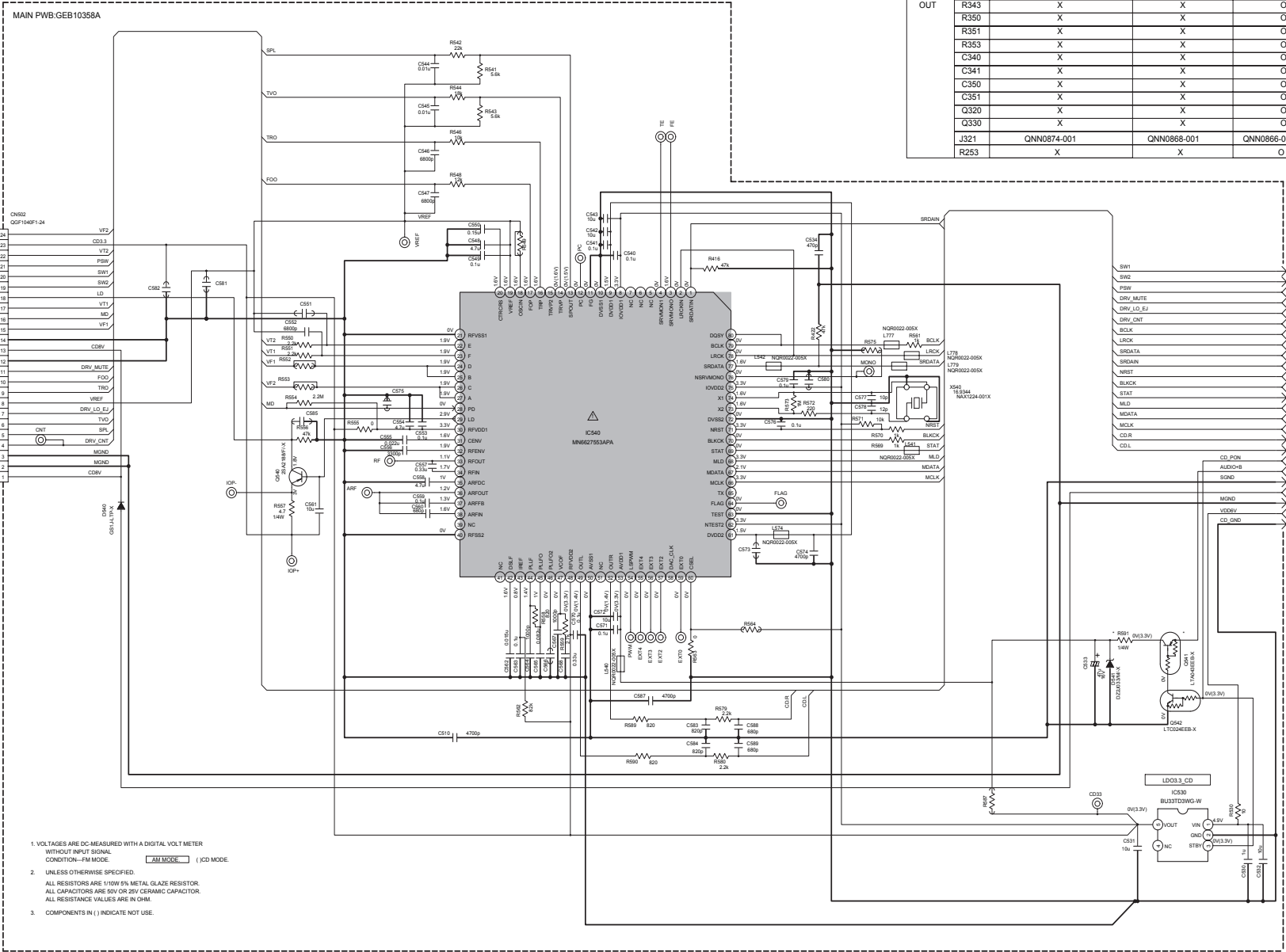
*MODELS		KD-R451E KD-R452E KD-R453E KD-R457EE KD-R651E	KD-R450J KD-R456U KD-R455U KD-R454UI KD-R451E KD-R451EU KD-AR555J KD-R556U KD-R551E KD-R551EU KD-R557EE	KD-R650J KD-R656U KD-R750J KD-AR755J KD-R756U KD-R751E KD-SR40J KD-S60J
OE REMOTE	R725	22K		30K

*MODELS		KD-R750J KD-AR755J KD-R756U KD-R751E KD-R757EE KD-AR755J	KD-R450J KD-R456U KD-R455U KD-R454UI KD-R451E KD-R451EU KD-R452E KD-R453E KD-AR555J	KD-R556U KD-R551E KD-R557EE KD-R650J KD-R651E KD-SR40J KD-SR60J
RGB CLK	R952	O		X

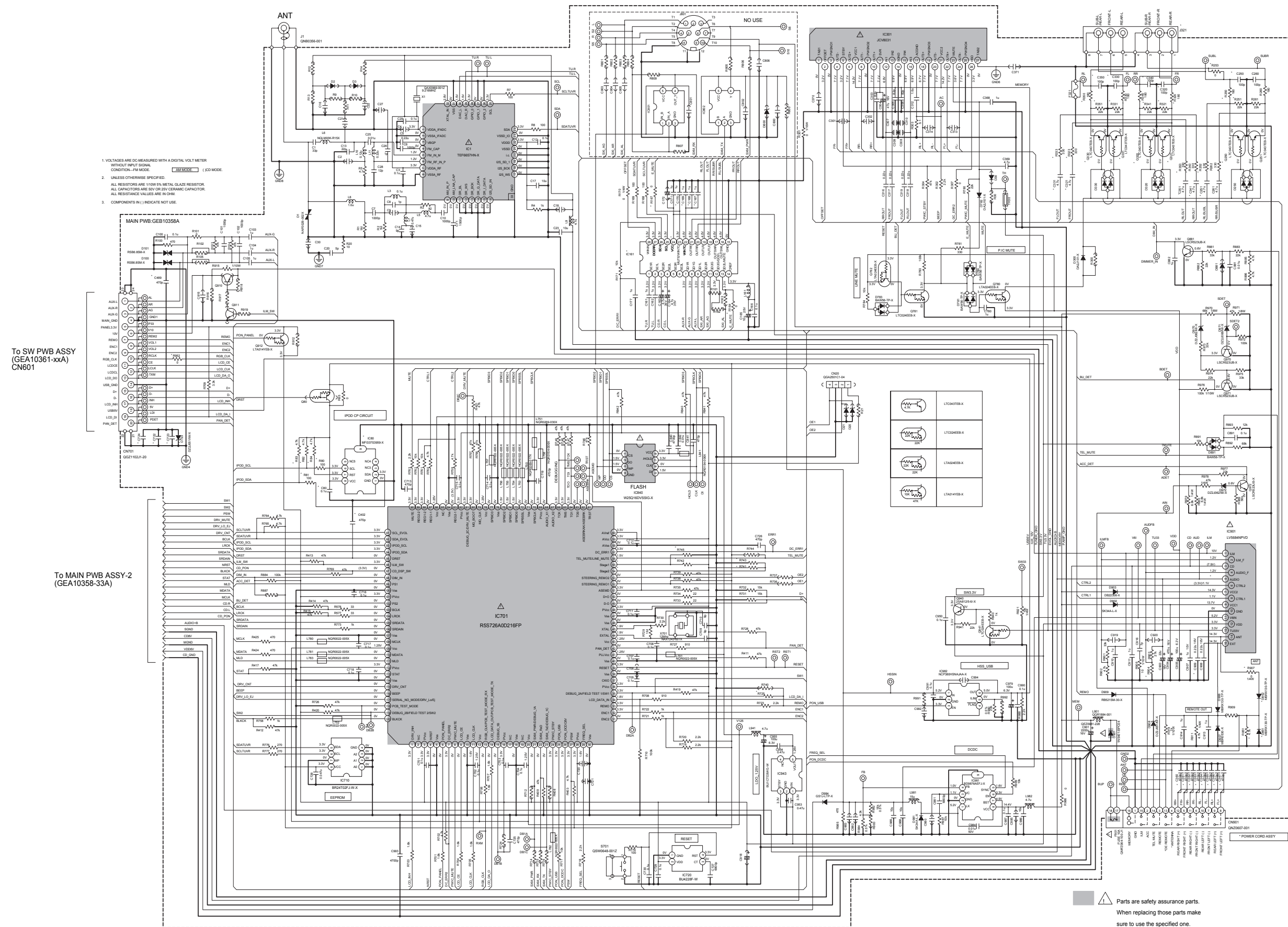
*MODELS		KD-R456U KD-R455U KD-R454UI KD-R556U KD-R656U KD-R756U	KD-R450J KD-R451E KD-R451EU KD-R452E KD-R453E	KD-R457EE KD-AR555J KD-R551E KD-R551EU KD-R557EE	KD-R650J KD-R651E KD-R750J KD-SR40J KD-SR60J	KD-R751E KD-R757EE
HORN NOISE	C360- C367	O		X		
	C722	470pF		4700pF		
	C723	X		4700pF		
	C724	470pF		4700pF		
SHORTWAVE BEAT NOISE C/M	D723	O		X		

*MODELS		KD-R450J KD-R456U KD-R455U KD-R454UI KD-R650J KD-R656U KD-SR40J KD-SR60J	KD-R556U KD-AR555J KD-AR755J KD-R756U	KD-R451EU KD-R457EE	KD-R451E KD-R452E KD-R453E KD-R551E KD-R751E KD-R757EE
POWER CORD	QAM1326-001	QAM1329-001	QAM1344-002	QAM1345-003	

To CD MECHA  
PWB ASSY  
(LVA20106-01A)  
CN1



# MAIN PWB ASSY-1 (GEA10358-33A)






MAIN PWB ASSY-2 (GEA10358-33A)

*MODELS		KD-R450J KD-SR40J	KD-R456U KD-R455U KD-R454UI	KD-R451E KD-R451EU KD-R452E KD-R452EU	KD-R453E	KD-R457EE	KD-AR555J	KD-R556U	KD-R551E KD-R551EU	KD-R557EE	KD-R650J KD-SR60J	KD-R656U	KD-R651E	KD-R750J	KD-AR755J	KD-R756U	KD-R751E	KD-R757EE
STAGE 1	R742	NIL	39K	27K	27K	22K	NIL	39K	27K	22K	NIL	39K	27K	NIL	NIL	39K	27K	22K
	R745	47K	8.2K	22K	22K	27K	47K	8.2K	22K	27K	47K	8.2K	22K	47K	47K	8.2K	22K	27K
	PIN55	0V	0.6V	1.5V	1.5V	1.8V	0V	0.6V	1.5V	1.8V	0V	0.6V	1.5V	0V	0V	0.6V	1.5V	1.8V
STAGE 2	R741	NIL	NIL	NIL	22K	NIL	39K	39K	39K	39K	33K	33K	33K	27K	22K	27K	27K	27K
	R743	47K	47K	47K	27K	47K	8.2K	8.2K	8.2K	8.2K	15K	15K	15K	22K	27K	22K	22K	22K
	PIN54	0V	0V	0V	1.8V	0V	0.6V	0.6V	0.6V	0.6V	1.0V	1.0V	1.0V	1.5V	1.8V	1.5V	1.5V	1.5V

*MODELS		KD-R456U KD-R455U KD-R454UI KD-R556U KD-R656U KD-R756U	KD-R450J KD-R451E KD-R451EU KD-R452E KD-R452EU KD-R453E KD-R457EE KD-AR555J KD-R551E KD-R551EU KD-R557EE	KD-R650J KD-R651E KD-R750J KD-AR755J KD-R751E KD-R757EE KD-SR40J KD-SR60J
ANT CONTROL	R907	O		X
	D852	O		X
	D851	O		X
	R851	O		X
	C909	O		X

*MODELS		KD-AR755J	KD-R450J KD-R456U KD-R455U KD-R454UI KD-R451E KD-R451EU KD-R452E KD-R453E KD-R457EE KD-AR555J KD-R556U KD-R551E KD-R551EU	KD-R650J KD-R651E KD-R656U KD-R651E KD-R750J KD-AR755J KD-R756U KD-R751E KD-R757EE KD-SR40J KD-SR60J
EVOL	IC161	TDA720B-X		TDA7718B-X
	C167	X		O
	C168	X		O
	R167	X		O
	R164	O		X
IC901 PIN5 VOLT.	R904	3.3K		4.7K
	V	11.5		8.5
IC161 VOLT.	PIN24	11.5		8.5
CD ANALOG SUPPLY	R591	680		430

*MODELS		KD-R650J KD-R656U KD-R651E KD-R750J KD-AR755J KD-R756U KD-R751E KD-R757EE KD-SR60J	KD-R450J KD-R456U KD-R455U KD-R454UI KD-R451E KD-R451EU KD-AR555J KD-R556U KD-R551E KD-R551EU KD-R452E KD-R453E	KD-R650J KD-R656U KD-R651E KD-R750J KD-AR755J KD-R756U KD-R751E KD-R757EE KD-SR40J
IPOD	R80	O		X
	R81	O		X
	R82	O		X
	R83	O		X
	R84	O		X
	C80	O		X
EMC	IC80	O		X
	C402	O		X
	C489	O		X

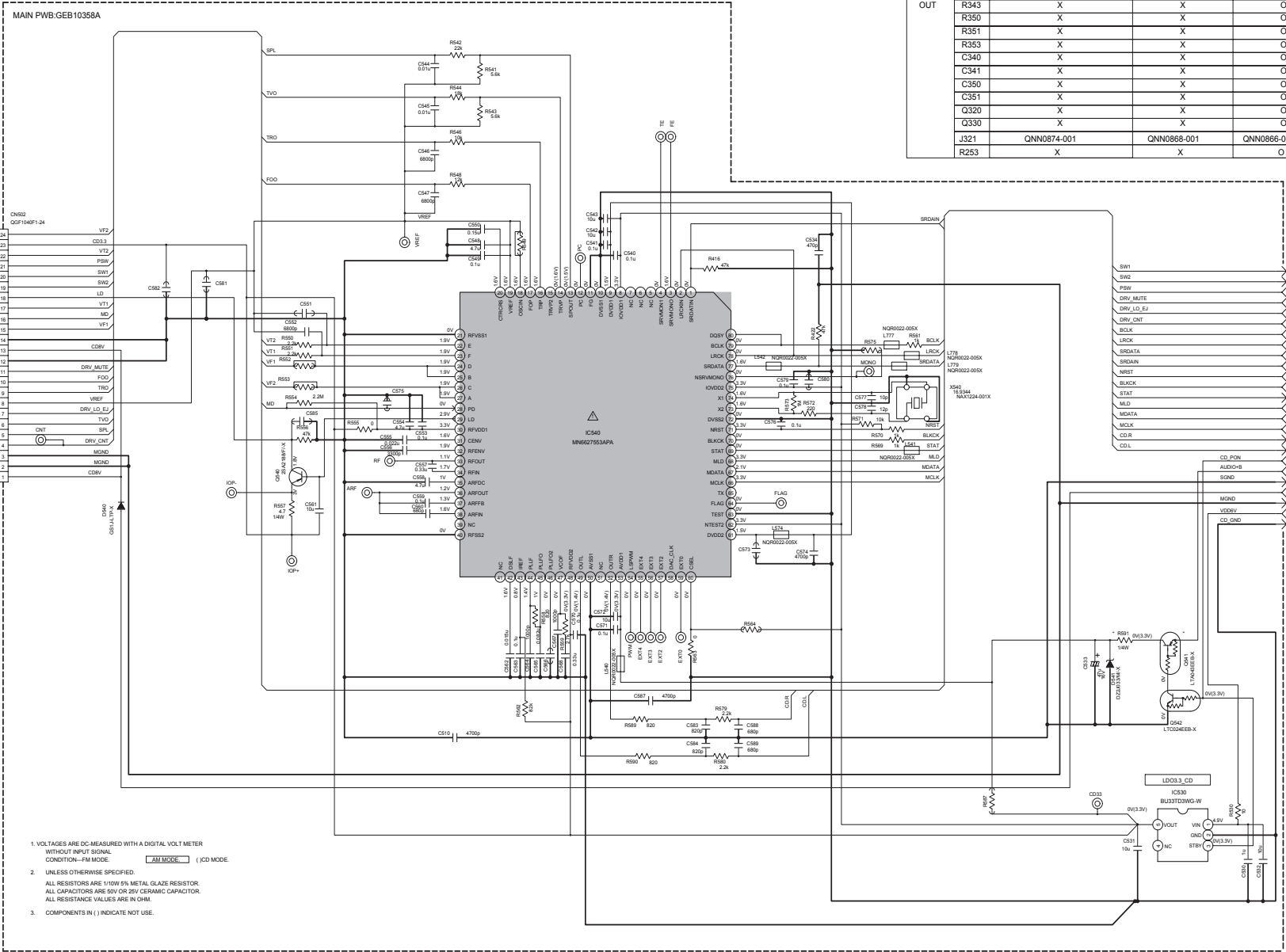
*MODELS		KD-R451E KD-R452E KD-R453E KD-R457EE KD-R651E	KD-R450J KD-R456U KD-R455U KD-R454UI KD-R451E KD-R451EU KD-AR555J KD-R556U KD-R551E KD-R551EU KD-R557EE	KD-R650J KD-R656U KD-R750J KD-AR755J KD-R756U KD-R751E KD-R757EE KD-SR40J KD-S60J
OE REMOTE	R725	22K		30K 

*MODELS		KD-R750J KD-AR755J KD-R756U KD-R751E KD-R757EE KD-AR755J	KD-R450J KD-R456U KD-R455U KD-R454UI KD-R451E KD-R451EU KD-R452E KD-R453E KD-AR555J	KD-R556U KD-R551E KD-R557EE KD-R650J KD-R651E KD-R656U KD-SR40J KD-SR60J
RGB CLK	R952	O		X

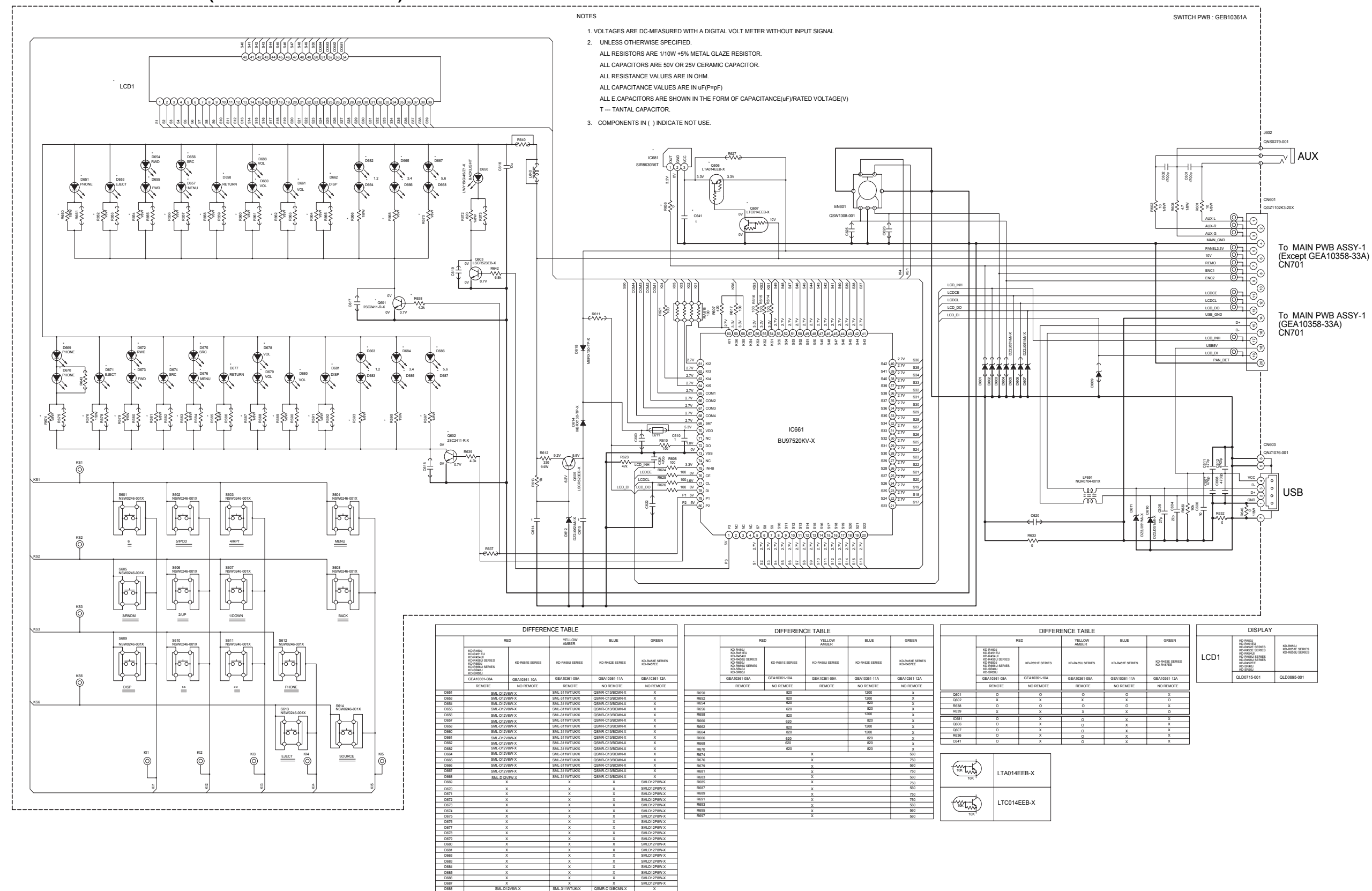
*MODELS		KD-R456U KD-R455U KD-R454UI KD-R556U KD-R656U KD-R756U	KD-R450J KD-R451E KD-R451EU KD-R452E KD-R453E	KD-R457EE KD-AR555J KD-R551E KD-R551EU KD-R557EE	KD-R650J KD-R651E KD-R750J KD-SR40J KD-SR60J	KD-R751E KD-R757EE
HORN NOISE	C360- C367	O		X		
	C722	470pF		4700pF		
SHORTWAVE BEAT NOISE C/M	C723	X		4700pF		
	C724	470pF		4700pF		
	D723	O		X		

*MODELS		KD-R450J KD-R456U KD-R455U KD-R454UI KD-R650J KD-R656U KD-SR40J KD-SR60J	KD-R656U KD-AR555J KD-AR755J KD-R756U	KD-R451EU KD-R457EE	KD-R451E KD-R452E KD-R453E KD-R551E KD-R751E KD-R757EE
POWER CORD		QAM1326-001	QAM1329-001	QAM1344-002	QAM1345-003

To CD MECHA  
PWB ASSY  
(LVA20106-01A)  
CN1

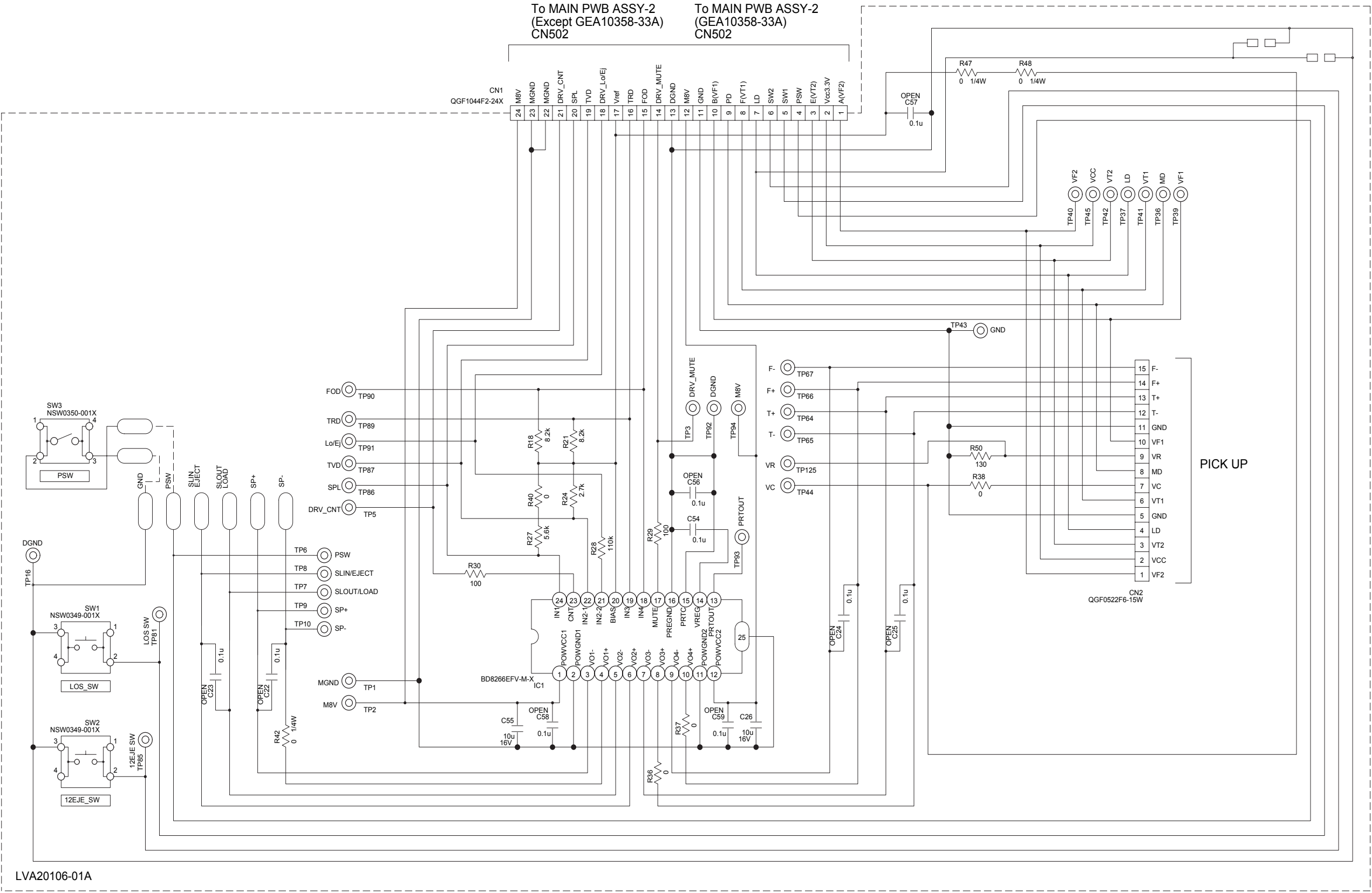


## SW PWB ASSY (GEA10361-xxA)





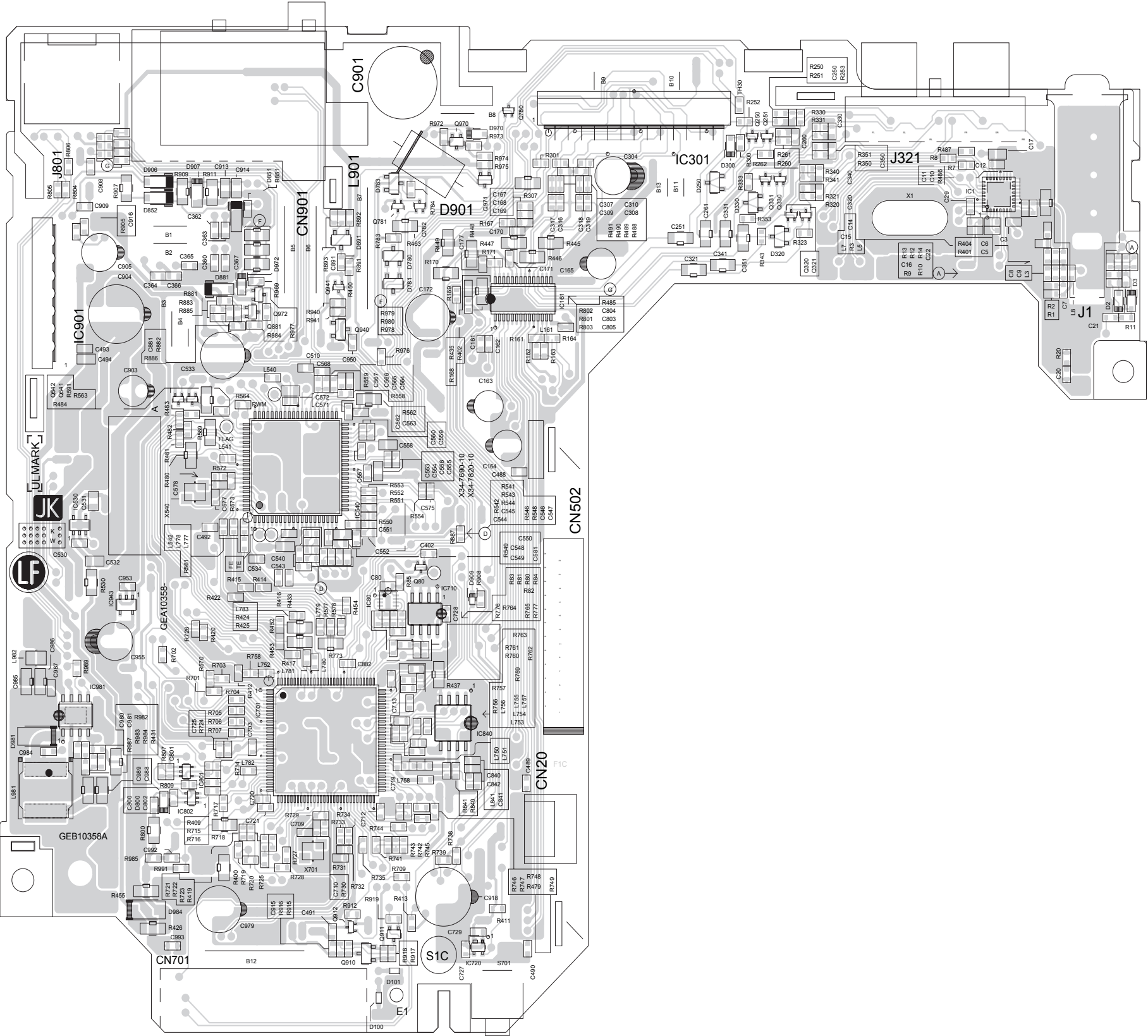
# CD MECHA PWB ASSY (LVA20106-01A)



Power rating of all unspecified resistors is 1/10w.  
Voltage fating of all unspecified capacitors is 50V.

MAIN PWB ASSY Except GEA10358-33A (GEB10358-001C)

(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))



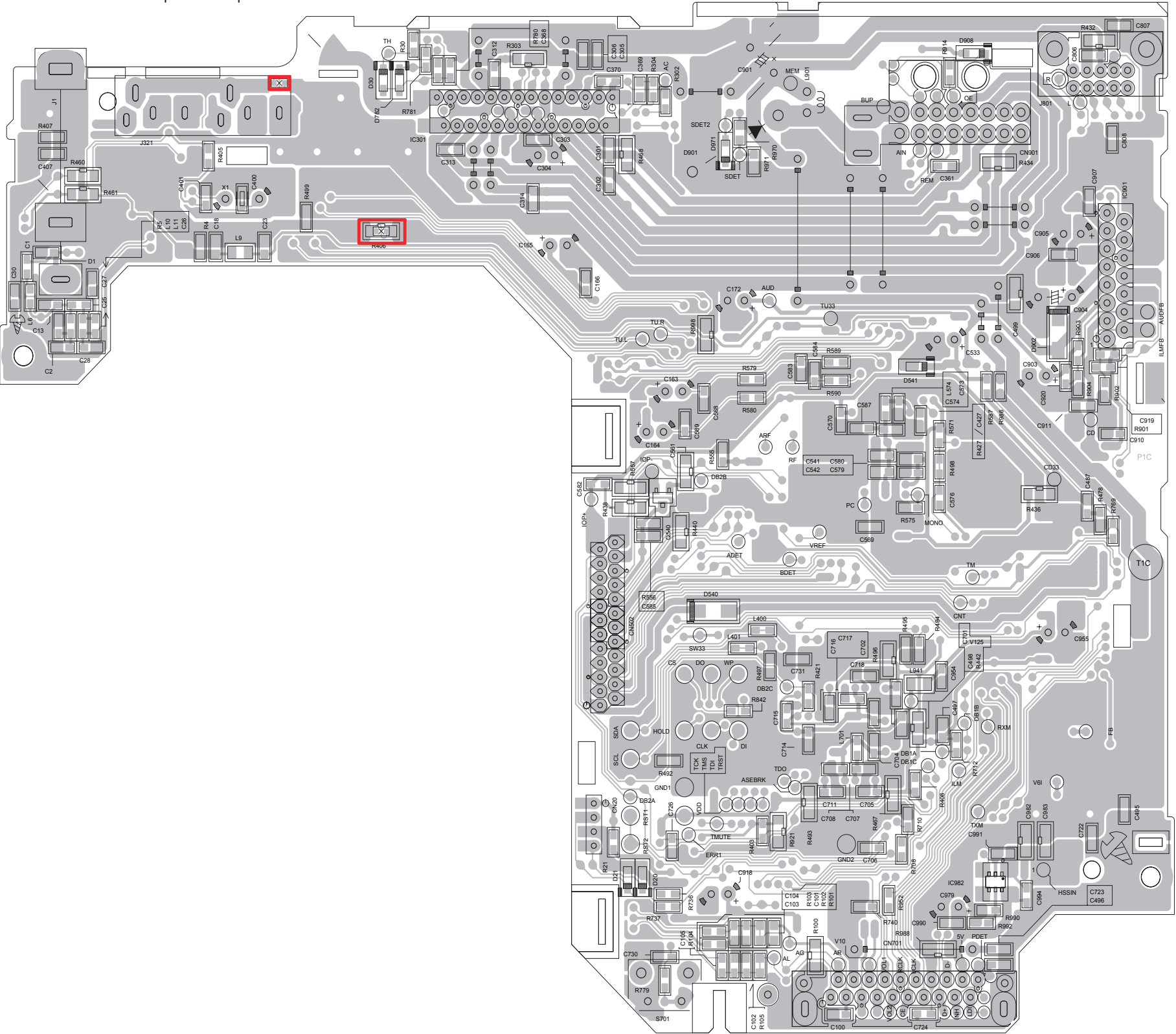
MAIN PWB ASSY Except GEA10358-33A (GEB10358-001C)

(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))

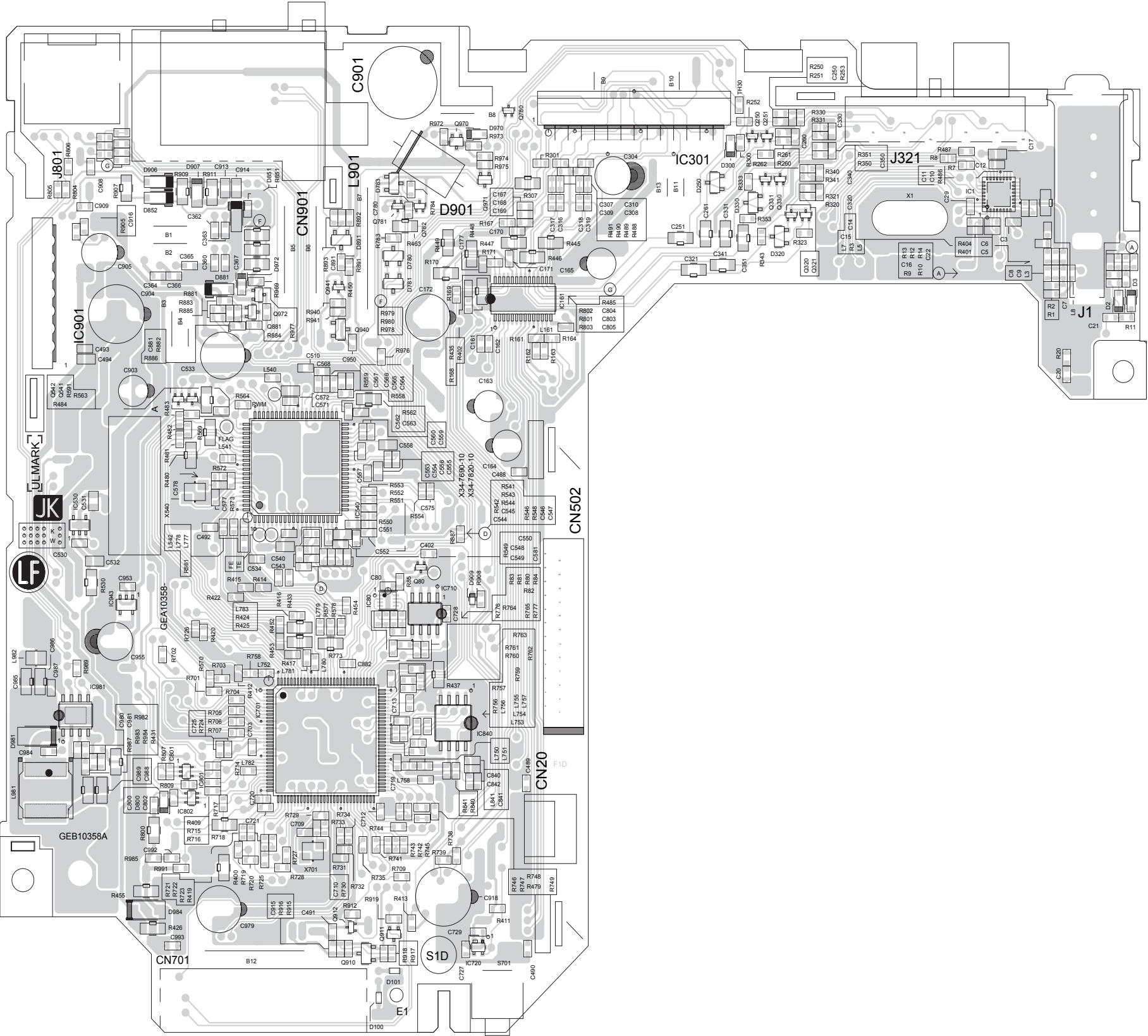
 How to repair a fuse pattern.

Refer to "2.1 How to repair a fuse pattern".




MAIN PWB ASSY GEA10358-33A (GEB10358-001D)

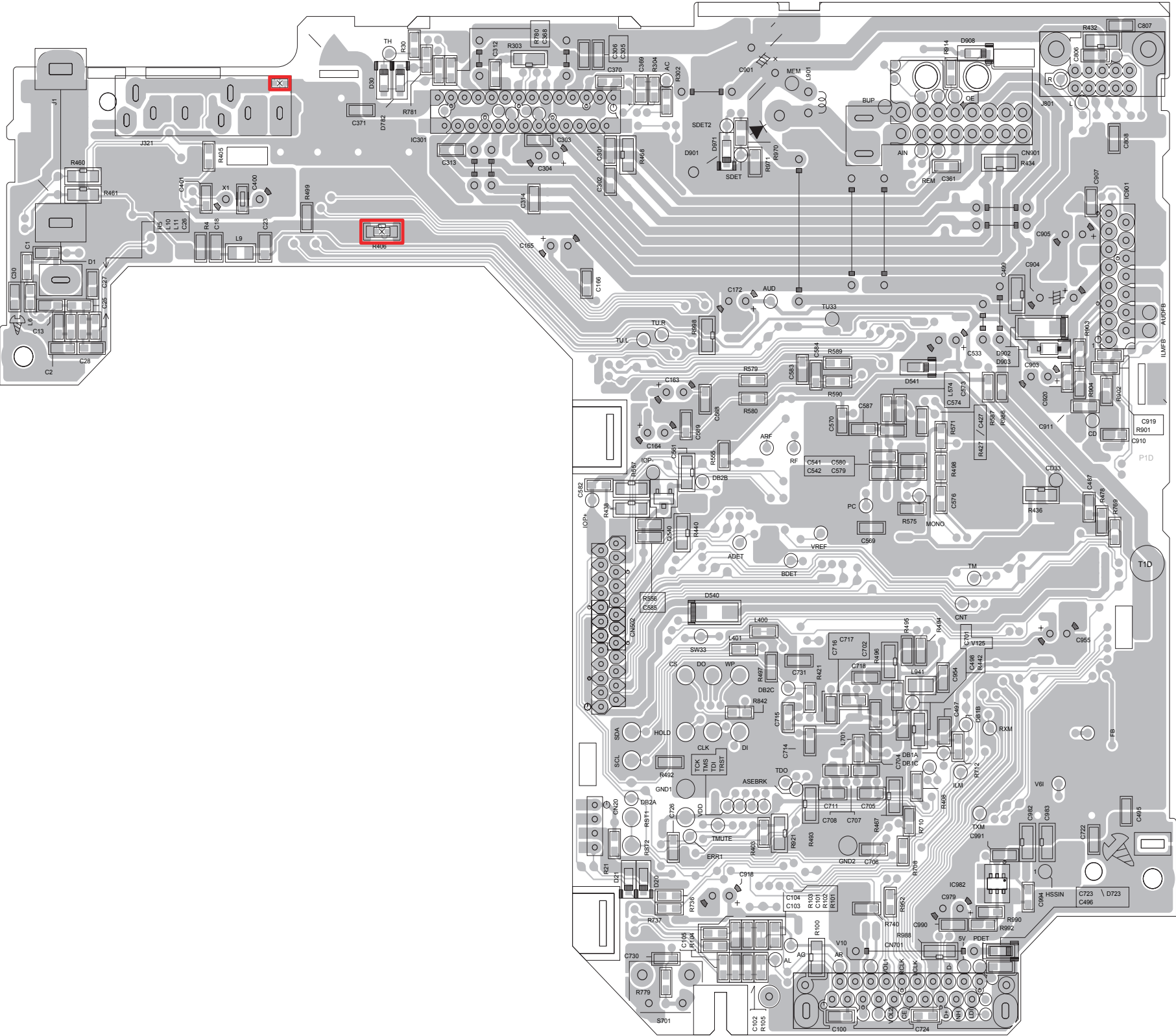
(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))  
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))





MAIN PWB ASSY GEA10358-33A (GEB10358-001D)  
(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))

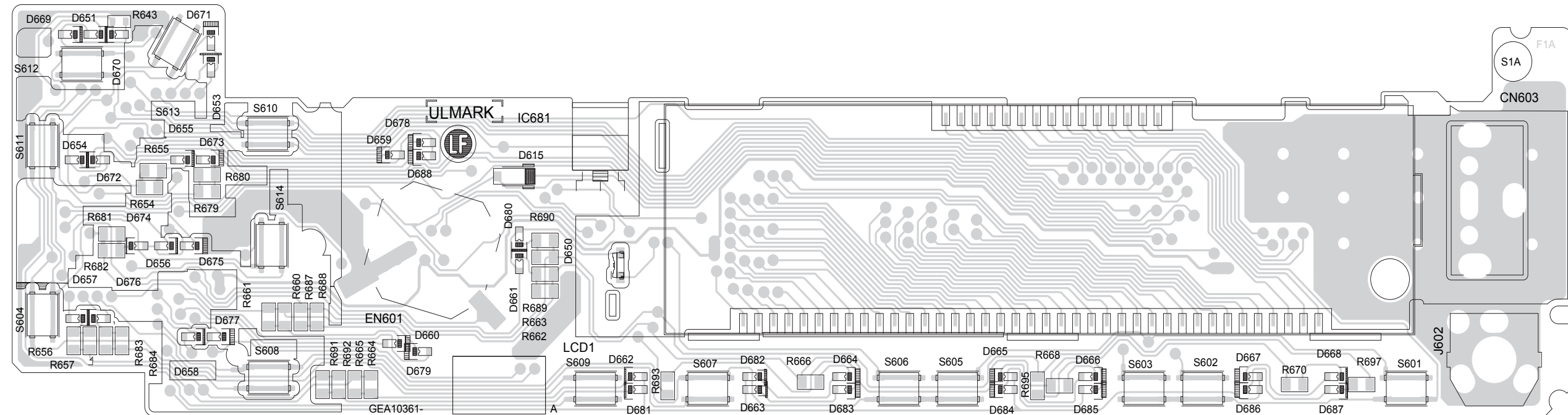
 How to repair a fuse pattern.  
Refer to "2.1 How to repair a fuse pattern".



# SW PWB ASSY GEA10361-xxA (GEB10361-001A)

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

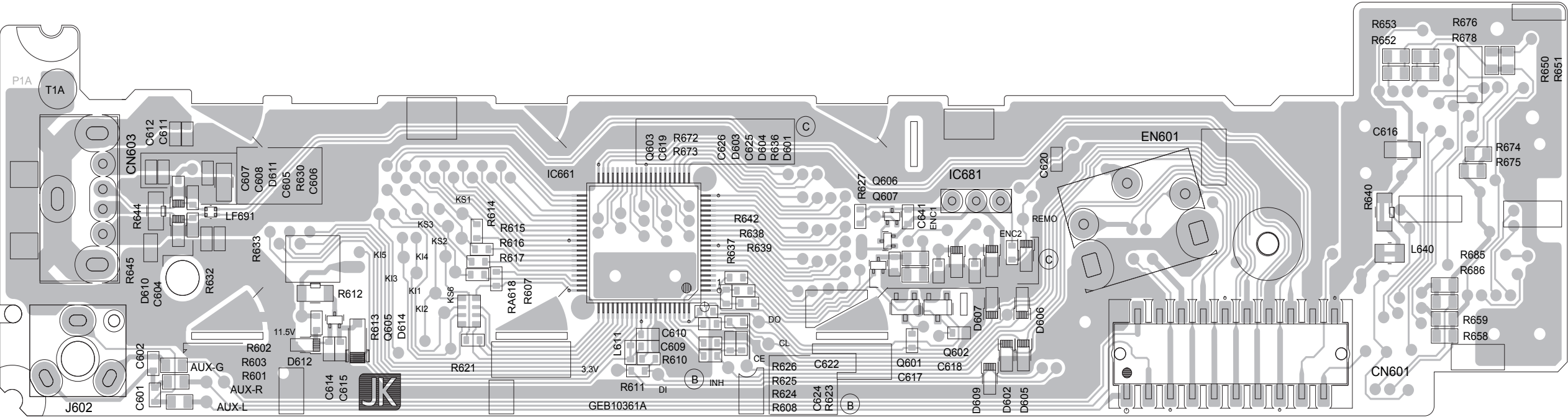
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))



SW PWB ASSY GEA10361-xxA (GEB10361-001A)

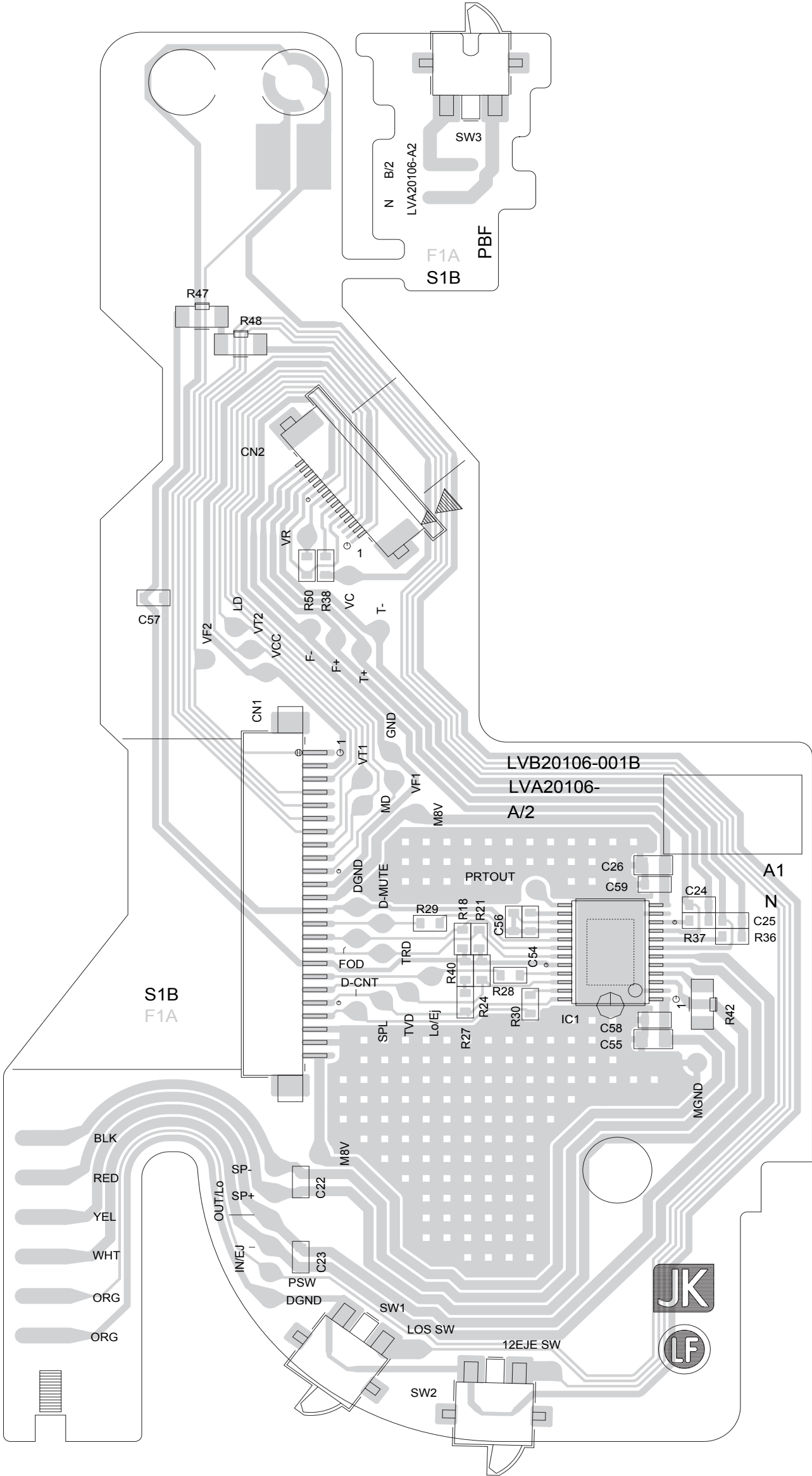
(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))

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



CD MECHA PWB ASSY LVA20106-01A (LVB20106-001B)

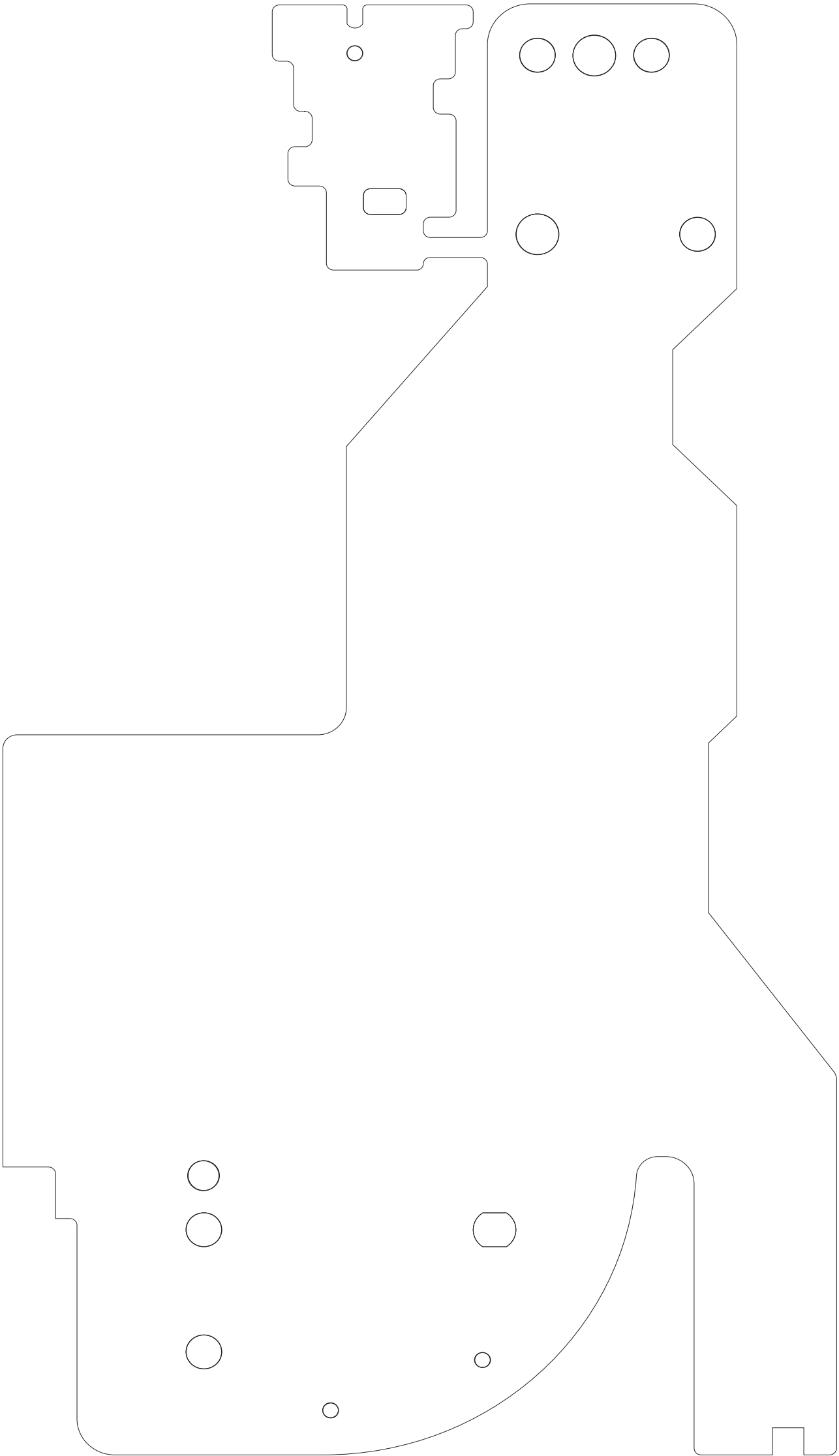
(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))  
(Lead free solder used in the board (material : Sn-Cu, melting point : 230 Centigrade))





CD MECHA PWB ASSY LVA20106-01A (LVB20106-001B)

(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))



# **JVC**

## **PARTS LIST**

### **CD RECEIVER**

KD-R450J  
KD-R451EU  
KD-R452EN  
KD-R453EN  
KD-R455U  
KD-R457EE

KD-R451E  
KD-R451EY  
KD-R452EY  
KD-R453EY  
KD-R456U  
KD-R459UR

KD-R451EN  
KD-R452E  
KD-R453E  
KD-R454UI  
KD-R456UT  
KD-SR40J



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- Due to the improvement in performance, some part numbers shown in the circuit diagrams may not agree with those indicated in the Parts List.
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- The parts identified by the  $\triangle$  symbol are critical for safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.
- When ordering chips, screws etc., place bulk orders (unit of tens) whenever possible to improve shipping efficiency.
- There are cases where the actual implemented parts in the sets and the service parts are different. When ordering parts, make sure to refer to the Parts List.

## ■ PRECAUTIONS ON SERVICE

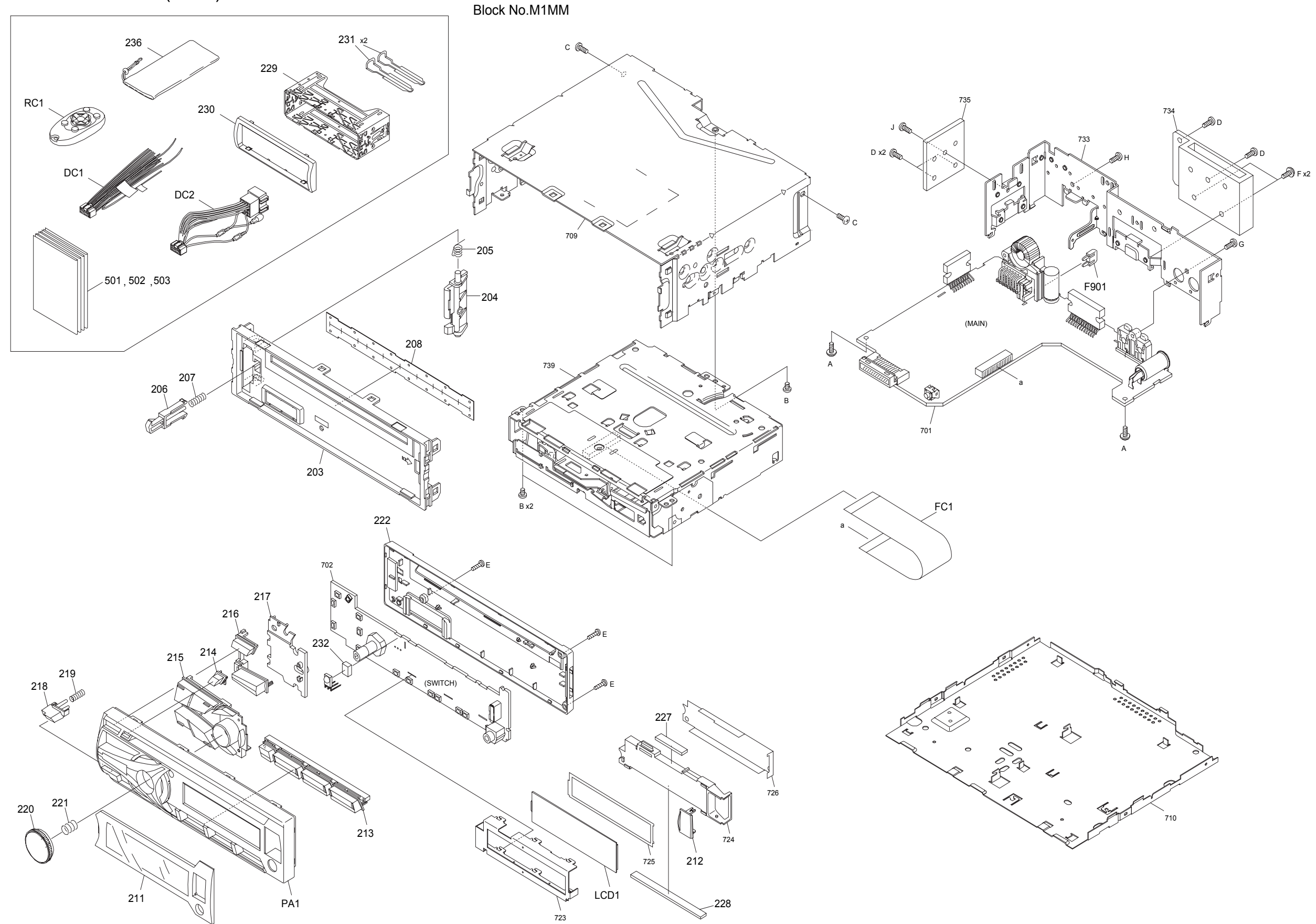
Certain parts of the power circuits and the GNDs differ according to the models. Care must be taken for the following points as the differences are indicated separately in the LIVE GND () and the ISOLATED (NEUTRAL) GND (.

1. Do not touch the LIVE GND, or do not touch the LIVE GND and the ISOLATED (NEUTRAL) GND at the same time. It may cause an electric shock.  
Before pulling out the chassis or other parts, make sure to pull out the power cord from the wall outlet first.
2. Do not short circuit between the LIVE GND and ISOLATED (NEUTRAL) GND, or never measure the LIVE GND and ISOLATED (NEUTRAL) GND at the same time using measuring instruments (oscilloscope, etc.). It may blow fuses or damage other parts.

## ■ DEVIATION TOLERANCE RANGE

DEVIATION TOLERANCE RANGE									
F	G	J	K	M	N	R	H	Z	P
± 1%	± 2%	± 5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

EXPLODED VIEW(UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

No.MA565

created date:2013-12-04

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
EXPLODED VIEW (UNIT) <M1MM>						
△	DC1	QAM1326-001	DC CORD		1	A,L,M,N,O,R
△	DC2	QAM1345-003	DC CORD		1	B,C,E,F,G,H,I,J,K
△	DC2	QAM1344-002	DC CORD		1	D,P
△	DC2	QAM1378-001	DC CORD		1	Q
△	F901	QMFZ064-100-J1	FUSE	10A	1	
	FC1	WJT0335-001A-E	E-CARD WIRE		1	
	LCD1	QLD0715-001	LCD MODULE		1	
	PA1	GE10392-001A	FRONT PANEL		1	A,B,C,D,E,F,G,H,I,J, K,N,O,P,Q,R
	PA1	GE10392-003A	FRONT PANEL		1	L,M
	RC1	RM-RK52M	REMOCON UNIT		1	A,L,M,N,O,R
	RC1	RM-RK52M3	REMOCON UNIT		1	Q
	A	GE40377-002A	SCREW		2	
	B	QYSDST2604ZA	TAP SCREW	M2.6 x 4mm	3	
	C	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	2	
	D	QYSDST2610ZA	TAP SCREW	M2.6 x 10mm	4	
	E	QYSDSF2008ZA	TAP SCREW	M2 x 8mm	3	
	F	GE40377-005A	SPECIAL SCREW		2	
	G	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm	1	
	H	QYSDSG3006ZA	TAP SCREW	M3 x 6mm	1	
	J	QYSDST2608ZA	TAP SCREW	M2.6 x 8mm	1	
	203	GE10390-001A	FRONT CHASSIS		1	
	204	GE35609-001A	LOCK LEVER		1	
	205	GE40514-003A	TORSION SPRING		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	205	GE40514-004A	TORSION SPRING		1	R
	206	GE35611-001A	RELEASE LEVER		1	
	207	GE30999-008A	COMP.SPRING		1	
	208	GE40630-001A	BLIND		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P
	208	GE40630-002A	BLIND		1	Q,R
	211	GE20358-008A	FINDER		1	A
	211	GE20358-011A	FINDER		1	B,C,E
	211	GE20358-012A	FINDER		1	D
	211	GE20358-002A	FINDER		1	F,G,H
	211	GE20358-003A	FINDER		1	I,J,K
	211	GE20358-010A	FINDER		1	L
	211	GE20358-001A	FINDER		1	M
	211	GE20358-009A	FINDER		1	N,O
	211	GE20358-004A	FINDER		1	P
	211	GE20358-016A	FINDER		1	Q
	211	GE20358-023A	FINDER		1	R
	212	GE35697-001A	USB DOOR		1	
	213	GE20360-001A	PRESET BUTTON		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	213	GE20360-002A	PRESET BUTTON		1	R
	214	GE35670-001A	EJECT BUTTON		1	
	215	GE35696-003A	SEARCH BUTTON		1	A,R
	215	GE35696-002A	SEARCH BUTTON		1	B,C,D,E,F,G,H,I,J,K, P
	215	GE35696-001A	SEARCH BUTTON		1	L,M,N,O,Q
	216	GE35694-001A	SOURCE BUTTON		1	
	217	GE35709-001A	LIGHT GUIDE		1	
	218	GE35698-001A	DETACH BUTTON		1	A,B,C,D,E,F,G,H,I,J, K,N,O,P,Q,R
	218	GE35698-002A	DETACH BUTTON		1	L,M
	219	GE30999-011A	COMP.SPRING		1	
	220	GE35699-001A	VOL KNOB		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	220	GE35699-005A	VOL KNOB		1	R
	221	GE40127-006A	KNOB SPRING		1	
	222	GE10394-001A	REAR COVER		1	
	227	QNZ1002-001	RUBBER CONNE		1	
	228	QNZ1003-001	RUBBER CONNE		1	
	229	GE20362-001A	MOUNTING SLEEVE		1	
	230	GE20363-001A	TRIM PLATE		1	A,B,C,D,E,F,G,H,I,J, K,N,O,P,Q,R
	230	GE20363-002A	TRIM PLATE		1	L,M
	231	GE40685-001A	HOOK		2	
	232	GE40466-025A	SPACER		1	A,D,L,M,N,O,Q,R
	236	GE40521-001A	CARRYING CASE		1	D,L,M,N,O,P,Q
	501	GET0941-001A	INST MANUAL	ENG SPA FRE	1	A
	501	GET0943-001A	INST MANUAL	ENG FRE	1	B,C,F,G,I,J
	501	GET0943-007A	INST MANUAL	ENG FRE RUS PER TUR ARA	1	D
	501	GET0943-003A	INST MANUAL	GER	1	E,H,K
	501	GET0942-001A	INST MANUAL	ENG	1	L,M,N
	501	GET0942-003A	INST MANUAL	CHI(TAIWAN)	1	O
	501	GET0943-006A	INST MANUAL	RUS UKR	1	P
	501	GET0980-001A	INST MANUAL	POR	1	Q
	501	GET1002-001A	INST MANUAL	ENG SPA FRE	1	R
	502	GET0943-002A	INST MANUAL	SPA ITA POR DUT GRE	1	B,F,I
	502	GET0943-003A	INST MANUAL	GER	1	C,G,J
	502	GET0943-005A	INST MANUAL	POL HUN CZE ROM BUL	1	E,H,K
	502	GET0942-002A	INST MANUAL	RUS PER THA ARA	1	M,N
	502	GET0942-004A	INST MANUAL	KOR	1	O
	503	GET0943-003A	INST MANUAL	GER	1	B,F,I
	503	GET0943-004A	INST MANUAL	DAN SWE FIN	1	C,G,J
	503	GET0943-006A	INST MANUAL	RUS UKR	1	E,H,K

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
503		GET0942-003A	INST MANUAL	CHI(TAIWAN)	1	M,N

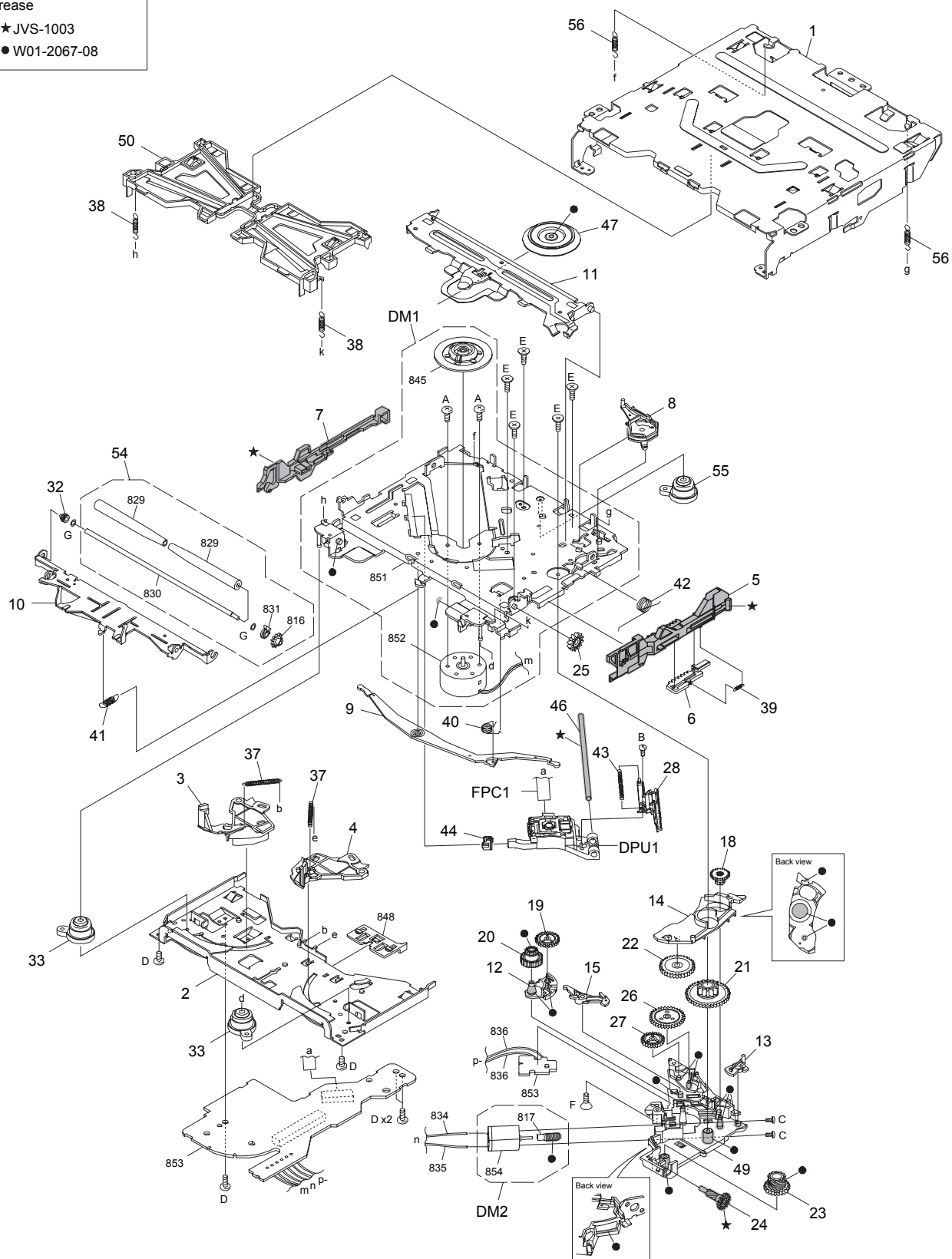
# EXPLODED VIEW (CD MECHANISM: FC2-2A00NXN)

Block No.MBMM

Grease

★ JVS-1003

● W01-2067-08



Parts with the exploded numbers larger than 800 are not supplied.

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
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EXPLODED VIEW (CD MECHANISM: FC2-2A00NXN) <MBMM>

DM1	CM-FC2-MD	MD CHASSIS ASSY	1
DM2	CM-FC2-M	LOADING MOTOR ASSY	1
DPU1	QAL1521-001	PICK UP	1
FPC1	QAL1465-001	FPC	1
A	LV45568-001A	MINI SCREW	2
B	QYSPSGT1745ZA	TAP SCREW	1
C	QYSPSPT2025MA	SCREW	2
D	VKZ4539-054	MINI SCREW	5
E	LV45818-001A	G.HOLDER SCREW	5
F	LV45815-001A	M. SHAFT SCREW	1
G	LV45816-001A	ROLLER WASHER	2
1	LV11877-002A	OUTER CHASSIS	1
2	LV11878-002A	LOWER CHASSIS	1
3	LV3A174-001A	DISC ARM L	1
4	LV3A175-001A	DISC ARM R	1
5	LV23057-001A	SLIDER R	1
6	LV3A178-001A	TRIGGER SLIDER	1
7	LV23058-001A	SLIDER L	1
8	LV3A179-001A	TRIGGER ARM	1
9	LV3A173-001A	JOINT LEVER	1
10	LV23055-002A	ROLLER LEVER	1
11	LV23056-001A	CLAMP ARM	1
12	LV3A181-001A	TRANSFER ARM	1
13	LV45797-002A	SL LOCK CAM	1
14	LV3A182-002A	SL LOCK ARM	1
15	LV3A183-001A	PICK LOCK ARM	1
18	LV3A187-002A	HELICAL GEAR 1	1
19	LV3A188-001A	TRANSFER GEAR	1
20	LV3A189-001A	LOAD GEAR H	1
21	LV3A190-001A	DRIVE GEAR	1
22	LV3A191-001A	JOINT GEAR	1
23	LV3A192-001A	WORM GEAR 2	1
24	LV3A193-001A	HELICAL GEAR 2	1
25	LV3A194-001A	LOAD GEAR V	1
26	LV3A195-001A	PICK GEAR 1	1
27	LV3A196-001A	PICK GEAR 2	1
28	LV3A197-001A	RACK GEAR	1
32	LV45796-001A	R.RETAINER L	1
33	D39-0403-05	DAMPER F	2
37	LV45808-001A	DISC ARM SPRING	2
38	LV45809-001A	FLOAT SPRING(F)	2
39	LV45810-001A	TRIGGER SPRING	1
40	LV45811-001A	LOAD SPRING	1
41	LV45812-001A	ROLLER SPRING	1
42	LV45813-001A	CLAMP SPRING	1
43	LV45814-001A	PICK SPRING	1
44	LV36813-201A	SUB GUIDE CAP	1
46	LV44555-001A	MAIN SHAFT	1
47	LV3A180-001A	CLAMPER	1
49	LV11881-002A	GEAR HOLDER	1
50	LV11880-003A	DISC GUIDE	1
54	CM-FC2-R	ROLLER ASSY	1
55	D39-0404-05	DAMPER R	1
56	LV45835-001A	FLOAT SPRING(R)	2



MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
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# MAIN PWB ASSY (Except GEA10358-33A) <01>

△	IC1	TEF6657HN-X	IC		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	IC161	TDA7718B-X	IC		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
△	IC301	JCV8031	IC		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	IC530	BU33TD3WG-W	IC		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
△	IC540	MN6627553APA	IC		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
△	IC701	R5S726A0D216FP	IC		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	IC710	BR24T02FJ-W-X	IC		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	IC720	BU4228F-W	IC		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
△	IC840	JES265E	IC		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
△	IC901	LV5684NPVD	IC		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	IC943	BU1CTD3WG-W	IC		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	IC981	BD9876EFJ-X	IC		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	IC982	NCP380HSNAJAA-X	IC		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	Q250	LTC043TEB-X	DIGI TRANSISTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	Q251	LTC043TEB-X	DIGI TRANSISTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	Q540	2SA2188/F/-X	TRANSISTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	Q541	LTA043EEB-X	DIGI TRANSISTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	Q542	LTC024EEB-X	DIGI TRANSISTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	Q780	LTA024EEB-X	DIGI TRANSISTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	Q781	LTC024EEB-X	DIGI TRANSISTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	Q782	LTA024EEB-X	DIGI TRANSISTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	Q881	LSCR523UB-X	TRANSISTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	Q912	LTA014YEB-X	DIGI TRANSISTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	Q940	2SA812/5-6/-X	TRANSISTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	Q941	LTC024EEB-X	DIGI TRANSISTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	Q970	LSCR523UB-X	TRANSISTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	Q971	LSCR523UB-X	TRANSISTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	Q972	LSCR523UB-X	TRANSISTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D1	NAF0029-002X	ESD SUPPRESSOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D100	RSB6.8SM-X	BP Z DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D101	RSB6.8SM-X	BP Z DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D300	DA2J101-X	SI DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D540	GS1J-LTP-X	SI DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D541	DZ2J033/M/-X	Z DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D780	BAW56-TP-X	SI DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D781	BAW56-TP-X	SI DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D782	DA2J101-X	SI DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D783	BAW56-TP-X	SI DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D851	MBRX130-TP-X	SB DIODE		1	L,M,N,O
	D852	MBRX130-TP-X	SB DIODE		1	L,M,N,O
	D891	BAW56-TP-X	SI DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P
△	D901	1N5401-BPC04	SI DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D902	SK34A-L-X	SB DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D906	MBRX130-TP-X	SB DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D907	MBR0530-X	SB DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D908	DZ2J051/M/-X	Z DIODE		1	A,B,C,D,E,F,G,H,I,J,

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
						K,L,M,N,O,P,Q
	D909	RB521SM-30-X	SB DIODE		1	B,C,D,E,F,G,H,I,J,K,Q
	D970	DZ2J062/M/-X	Z DIODE		1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	D971	DZ2J068/M/-X	Z DIODE		1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	D972	DZ2J062/M/-X	Z DIODE		1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	D981	SK34A-L-X	SB DIODE		1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	D984	GS1J-LTP-X	SI DIODE		1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C1	CC73GCH1H330J	C CAPACITOR	33pF 50V J	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C3	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C5	CK73GBB1C224K	C CAPACITOR	0.22uF 16V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C6	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C7	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C8	CC73GCH1H010C	C CAPACITOR	1pF 50V C	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C10	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C11	CK73GBB1H152K	C CAPACITOR	1500pF 50V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C12	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C13	CC73GCH1H220J	C CAPACITOR	22pF 50V J	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C14	CC73GCH1H090D	C CAPACITOR	9pF 50V D	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C17	CK730AX0J106K	C CAPACITOR	10uF 6.3V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C20	CC73GCH1H050C	C CAPACITOR	5pF 50V C	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C23	CK730AX0J106K	C CAPACITOR	10uF 6.3V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C25	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C26	CC73GCH1H010C	C CAPACITOR	1pF 50V C	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C28	CC73GCH1H120J	C CAPACITOR	12pF 50V J	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C29	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C100	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C101	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C102	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C103	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C104	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C105	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C161	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C162	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C163	CD04AV1V4R7M	E CAPACITOR	4.7uF 35V M	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C164	CD04AV1V4R7M	E CAPACITOR	4.7uF 35V M	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C165	CD04AV1C100M	E CAPACITOR	10uF 16V M	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C166	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C167	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C168	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C169	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C171	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C177	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C250	CC73GCH1H101J	C CAPACITOR	100pF 50V J	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C251	CK73EBB1C475K	C CAPACITOR	4.7uF 16V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C260	CC73GCH1H101J	C CAPACITOR	100pF 50V J	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q
	C261	CK73EBB1C475K	C CAPACITOR	4.7uF 16V K	1	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	C303	CC73GCH1H820J	C CAPACITOR	82pF 50V J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C304	CD04AV1C470M	E CAPACITOR	47uF 16V M	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C305	CC73GCH1H820J	C CAPACITOR	82pF 50V J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C306	CC73GCH1H820J	C CAPACITOR	82pF 50V J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C312	CK730AV1C105K	C CAPACITOR	1uF 16V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C316	CK730AV1C224K	C CAPACITOR	0.22uF 16V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C317	CK730AV1C224K	C CAPACITOR	0.22uF 16V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C318	CK730AV1C224K	C CAPACITOR	0.22uF 16V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C319	CK730AV1C224K	C CAPACITOR	0.22uF 16V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C360	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	L,M,N,O,Q
	C361	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	L,M,N,O,Q
	C362	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	L,M,N,O,Q
	C363	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	L,M,N,O,Q
	C364	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	L,M,N,O,Q
	C365	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	L,M,N,O,Q
	C366	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	L,M,N,O,Q
	C367	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	L,M,N,O,Q
	C368	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C369	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C510	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C530	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C531	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C532	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C533	CD04AV1C470M	E CAPACITOR	47uF 16V M	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C534	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C540	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C541	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C542	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C543	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C544	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C545	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C546	CK73GBB1H682K	C CAPACITOR	6800pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C547	CK73GBB1H682K	C CAPACITOR	6800pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C548	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C549	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C550	CK73GBB1C154K	C CAPACITOR	0.15uF 16V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C552	CK73GBB1H682K	C CAPACITOR	6800pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C553	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C554	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C555	CK73GBB1H223K	C CAPACITOR	0.022uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C556	CK73GBB1H332K	C CAPACITOR	3300pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C557	CK73GBB1A334K	C CAPACITOR	0.33uF 10V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C558	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C559	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C560	CC73GCH1H681J	C CAPACITOR	680pF 50V J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C561	NCB11AK-106X	C CAPACITOR	10uF 10V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C562	CK73GBB1H153K	C CAPACITOR	0.015uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C563	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C564	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	C565	CK73GGB1E823K	C CAPACITOR	0.082uF 25V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C567	CK73GGB1H102K	C CAPACITOR	1000pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C568	CK73GGB1A334K	C CAPACITOR	0.33uF 10V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C570	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C571	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C572	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C574	CK73GGB1H472K	C CAPACITOR	4700pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C576	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C577	CC73GCH1H100D	C CAPACITOR	10pF 50V D	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C578	CC73GCH1H120J	C CAPACITOR	12pF 50V J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C579	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C583	CK73GGB1H821K	C CAPACITOR	820pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C584	CK73GGB1H821K	C CAPACITOR	820pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C587	CK73GGB1H472K	C CAPACITOR	4700pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C588	CK73GGB1H681K	C CAPACITOR	680pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C589	CK73GGB1H681K	C CAPACITOR	680pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C701	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C702	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C703	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C704	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C705	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C707	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C708	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C709	CC73GCH1H090D	C CAPACITOR	9pF 50V D	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C710	CC73GCH1H090D	C CAPACITOR	9pF 50V D	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C711	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C712	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C713	CK73GGB1H471K	C CAPACITOR	470pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C714	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C715	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C716	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C717	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C718	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C719	CK73GGB1H472K	C CAPACITOR	4700pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C722	CK73GGB1H472K	C CAPACITOR	4700pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C723	CK73GGB1H472K	C CAPACITOR	4700pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C724	CK73GGB1H472K	C CAPACITOR	4700pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C725	CK73GGB1H471K	C CAPACITOR	470pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C726	CK73GGB1H471K	C CAPACITOR	470pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C727	CK73GGB1H682K	C CAPACITOR	6800pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C728	CK73GGB1C473K	C CAPACITOR	0.047uF 16V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C729	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C730	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C731	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C840	CK73GGB1H472K	C CAPACITOR	4700pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C841	CK73GGB1H471K	C CAPACITOR	470pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
						K,L,M,N,O,P,Q
	C842	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C881	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C882	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C891	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P
	C901	QEZO981-228	E CAPACITOR	2200uF	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C903	CD04AS1C220M	E CAPACITOR	22uF 16V M	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C904	CD04AR1C471M	E CAPACITOR	470uF 16V M	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C905	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C907	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C908	CK73GBB1C224K	C CAPACITOR	0.22uF 16V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C909	CK73GBB1C224K	C CAPACITOR	0.22uF 16V K	1	L,M,N,O
	C910	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C911	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C913	CK73FBB1C105K	C CAPACITOR	1uF 16V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C914	CK73FBB1C105K	C CAPACITOR	1uF 16V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C916	CC73GCH1H070D	C CAPACITOR	7pF 50V D	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C950	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C953	CK73GBB1C474K	C CAPACITOR	0.47uF 16V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C954	CK73GBB1C474K	C CAPACITOR	0.47uF 16V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C955	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C979	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C981	CK73GBB1H682K	C CAPACITOR	6800pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C984	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C986	CK73EXR1E106K	C CAPACITOR	10uF 25V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C987	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C988	NCB11AK-106X	C CAPACITOR	10uF 10V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C989	NCB11AK-106X	C CAPACITOR	10uF 10V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C990	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C991	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	C993	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R1	RK73GB2A105J	MG RESISTOR	1MΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R2	RK73GB2A105J	MG RESISTOR	1MΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R3	RK73GB2A820J	MG RESISTOR	82Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R4	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R5	RK73GB2A4R7J	MG RESISTOR	4.7Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R7	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R8	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R20	RK73GB2A100J	MG RESISTOR	10Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R100	RK73EB2E471J	MG RESISTOR	470Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R101	RK73FB2B000J	MG RESISTOR	0Ω 1/8W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R103	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R104	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R167	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R168	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R169	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R170	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J,

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
						K,L,M,N,O,P,Q
	R171	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R250	RK73GB2A181J	MG RESISTOR	180Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R251	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R252	RK73GB2A331J	MG RESISTOR	330Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R260	RK73GB2A181J	MG RESISTOR	180Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R261	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R262	RK73GB2A331J	MG RESISTOR	330Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R301	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R302	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R303	RK73EB2E5R1J	MG RESISTOR	5.1Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R304	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R307	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R400	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R401	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R402	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R403	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R404	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R409	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R411	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R412	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R413	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R414	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R415	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R416	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R417	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R419	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R420	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R421	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R422	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R424	RK73EB2E471J	MG RESISTOR	470Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R425	RK73EB2E471J	MG RESISTOR	470Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R427	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R431	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R434	NRZ0084-0R0X	MG RESISTOR	0Ω	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R435	RK73GB2A1R0J	MG RESISTOR	1Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R436	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R438	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R440	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R442	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R447	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R448	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R449	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R450	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R452	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R453	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q



MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	R454	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R463	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R467	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R468	NRZ0084-0R0X	MG RESISTOR	0Ω	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R486	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R530	RK73EB2E100J	MG RESISTOR	10Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R541	RK73GB2A562J	MG RESISTOR	5.6kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R542	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R543	RK73GB2A562J	MG RESISTOR	5.6kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R544	RK73GB2A183J	MG RESISTOR	18kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R546	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R548	RK73GB2A123J	MG RESISTOR	12kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R550	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R551	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R554	RK73GB2A225J	MG RESISTOR	2.2MΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R555	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R556	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R557	RK73EB2E4R7J	MG RESISTOR	4.7Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R558	RK73GB2A821J	MG RESISTOR	820Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R559	RK73GB2A272J	MG RESISTOR	2.7kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R561	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R562	RK73EB2E823J	MG RESISTOR	82kΩ 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R563	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R569	RK73EB2E102J	MG RESISTOR	1kΩ 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R570	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R571	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R572	RK73GB2A221J	MG RESISTOR	220Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R573	RK73GB2A105J	MG RESISTOR	1MΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R577	RK73GB2A330J	MG RESISTOR	33Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R578	RK73GB2A330J	MG RESISTOR	33Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R579	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R580	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R589	RK73GB2A821J	MG RESISTOR	820Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R590	RK73GB2A821J	MG RESISTOR	820Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R591	RK73EB2E431J	MG RESISTOR	430Ω 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R701	RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R702	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R703	RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R704	RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R705	RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R706	RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R707	RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R708	RK73GB2A911J	MG RESISTOR	910Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R709	RK73GB2A332J	MG RESISTOR	3.3kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R710	RK73GB2A104J	MG RESISTOR	100kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	R717	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R718	RK73EB2E222J	MG RESISTOR	2.2kΩ 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R719	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R720	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R721	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R722	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R723	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R725	RK73GB2A363J	MG RESISTOR	36kΩ 1/10W J	1	A,L,M,N,O,Q
	R725	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	B,C,D,E,F,G,H,I,J,K, P
	R726	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R727	RK73GB2A911J	MG RESISTOR	910Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R728	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R729	RK73GB2A105J	MG RESISTOR	1MΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R730	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R731	RK73GB2A153J	MG RESISTOR	15kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R732	RK73GB2A153J	MG RESISTOR	15kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R733	RK73GB2A220J	MG RESISTOR	22Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R734	RK73GB2A220J	MG RESISTOR	22Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R735	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R738	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R739	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R741	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	I,J,K
	R742	RK73GB2A273J	MG RESISTOR	27kΩ 1/10W J	1	B,C,D,E,F,G,H,I,J,K
	R742	RK73GB2A393J	MG RESISTOR	39kΩ 1/10W J	1	L,M,N,O
	R742	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	P
	R742	RK73GB2A153J	MG RESISTOR	15kΩ 1/10W J	1	Q
	R743	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,L,M, N,O,P,Q
	R743	RK73GB2A273J	MG RESISTOR	27kΩ 1/10W J	1	I,J,K
	R745	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A
	R745	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	B,C,D,E,F,G,H,I,J,K
	R745	RK73GB2A822J	MG RESISTOR	8.2kΩ 1/10W J	1	L,M,N,O
	R745	RK73GB2A273J	MG RESISTOR	27kΩ 1/10W J	1	P
	R745	RK73GB2A333J	MG RESISTOR	33kΩ 1/10W J	1	Q
	R746	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R747	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R748	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R749	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R756	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R757	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R758	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R759	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R760	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R761	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R762	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R763	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R764	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R765	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R769	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R773	RK73EB2E102J	MG RESISTOR	1kΩ 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R776	RK73GB2A271J	MG RESISTOR	270Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R777	RK73GB2A271J	MG RESISTOR	270Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R779	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J,

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
						K,L,M,N,O,P,Q
	R780	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R781	RK73GB2A331J	MG RESISTOR	330Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R783	RK73GB2A104J	MG RESISTOR	100kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R784	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R840	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R841	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R842	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R851	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	L,M,N,O
	R881	RK73GB2A333J	MG RESISTOR	33kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R882	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R883	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R884	RK73GB2A104J	MG RESISTOR	100kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R885	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R886	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R891	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P
	R892	RK73GB2A683J	MG RESISTOR	68kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R893	RK73GB2A123J	MG RESISTOR	12kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P
	R901	RK73GB2A333J	MG RESISTOR	33kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R902	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R903	RK73GB2A273J	MG RESISTOR	27kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R904	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R905	RK73GB2A100J	MG RESISTOR	10Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R907	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	L,M,N,O
	R908	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	A,L,M,N,O,P
	R911	RK73EB2E472J	MG RESISTOR	4.7kΩ 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R914	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R915	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R921	RK73EB2E103J	MG RESISTOR	10kΩ 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R940	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R941	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R969	RK73GB2A563J	MG RESISTOR	56kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R970	RK73FB2B683J	MG RESISTOR	68kΩ 1/8W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R971	RK73FB2B473J	MG RESISTOR	47kΩ 1/8W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R972	RK73GB2A104J	MG RESISTOR	100kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R973	RK73GB2A333J	MG RESISTOR	33kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R974	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R975	RK73GB2A333J	MG RESISTOR	33kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R976	RK73GB2A104J	MG RESISTOR	100kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R977	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R978	RK73EB2E473J	MG RESISTOR	47kΩ 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R979	RK73EB2E682J	MG RESISTOR	6.8kΩ 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R980	RK73EB2E682J	MG RESISTOR	6.8kΩ 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R982	RK73GH2A183D	MG RESISTOR	18kΩ 1/10W D	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R984	RK73GH2A432D	MG RESISTOR	4.3kΩ 1/10W D	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R985	RK73GB2A471J	MG RESISTOR	470Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R986	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	R987	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R988	RK73EB2E222J	MG RESISTOR	2.2kΩ 1/4W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R989	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	R990	RK73GH2A203D	MG RESISTOR	20kΩ 1/10W D	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L3	NQLM93K-R10X	COIL	0.1uH K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L5	NQLM93K-4R7X	COIL	4.7uH K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L6	NQLM93K-R15X	COIL	0.15uH K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L7	NQLM93K-R47X	COIL	0.47uH K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L8	NQLM93K-1R0X	COIL	1uH K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L9	NQL79GM-4R7X	COIL	4.7uH M	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L10	NQLM93K-R12X	COIL	0.12uH K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L11	NQLM93K-R22X	COIL	0.22uH K	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L540	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L541	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L542	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L574	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L701	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L750	NQR0269-017X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L751	NQR0269-030X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L752	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L753	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L754	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L755	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L756	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L757	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L758	NQR0154-006X	FERRITE CORE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L777	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L778	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L779	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L780	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L781	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L782	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L783	NQR0022-005X	FERRITE BEADS		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L841	NQR0154-006X	FERRITE CORE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L901	QQR1884-001	CHOKE COIL		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L941	NQL79GM-4R7X	COIL	4.7uH M	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L981	NQLN9EM-150X	COIL	15uH M	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	L982	NQLH25M-4R7X	COIL	4.7uH M	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	CN502	QGF1040F1-24	CONNECTOR	FFC/FPC 24P	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	CN701	QGZ1102J1-20	CONNECTOR	20P	1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	CN901	QNZ0607-001	CAR CONNECTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	J1	QNB0356-001	ANT TERMINAL		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	J321	QNN0874-001	PIN JACK		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	S701	QSW0648-001Z	TACT SWITCH		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	X1	QAX0969-001Z	CRYSTAL		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	X540	NAX1224-001X	CRYSTAL		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	X701	NAX1243-001X	CRYSTAL		1	K,L,M,N,O,P,Q A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
SW PWB ASSY (GEA10361-xxA) <02>						
	IC661	BU97520KV-X	IC		1	
	IC681	SIR8630B6T	IR DETECT UNIT		1	A,D,L,M,N,O,Q,R
	Q601	2SC2411-R-X	TRANSISTOR		1	A,B,C,D,E,F,G,H,L,M, N,O,Q,R
	Q602	2SC2411-R-X	TRANSISTOR		1	I,J,K,P
	Q603	LSCR523EB-X	TRANSISTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	Q603	LSCR523EBFS8	TRANSISTOR		1	R
	Q605	LSCR523EB-X	TRANSISTOR		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	Q605	LSCR523EBFS8	TRANSISTOR		1	R
	Q606	LTA014EEB-X	DIGI TRANSISTOR		1	A,D,L,M,N,O,Q
	Q606	LTA014EEBFS8	DIGI TRANSISTOR		1	R
	Q607	LTC014EEB-X	DIGI TRANSISTOR		1	A,D,L,M,N,O,Q
	Q607	LTC014EEBFS8	DIGI TRANSISTOR		1	R
	D605	DZ2J051M	Z DIODE		1	R
	D607	DZ2J051M	Z DIODE		1	R
	D610	DZ2J051M/-X	Z DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D610	DZ2J051M	Z DIODE		1	R
	D611	DZ2J051M/-X	Z DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D611	DZ2J051M	Z DIODE		1	R
	D612	DZ2J062M/-X	Z DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D612	DZ2J062M	Z DIODE		1	R
	D614	MBRX130-TP-X	SB DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D614	MBRX130	SCHOTTKY DIODE		1	R
	D615	MBRX130-TP-X	SB DIODE		1	A,B,C,D,E,F,G,H,I,J, K,L,M,N,O,P,Q
	D615	MBRX130	SCHOTTKY DIODE		1	R
	D650	LWY1SG/45/Z1-X	LED		1	
	D651	SML-D12V8W-X	LED		1	A,B,C,D,E,L,N,O,Q
	D651	QSMR-C13/BCMN-X	LED		1	F,G,H
	D651	SML-311WT/JK/X	LED		1	M
	D651	SML-D12V8WT	LED		1	R
	D653	SML-D12V8W-X	LED		1	A,B,C,D,E,L,N,O,Q
	D653	QSMR-C13/BCMN-X	LED		1	F,G,H
	D653	SML-311WT/JK/X	LED		1	M
	D653	SML-D12V8WT	LED		1	R
	D654	SML-D12V8W-X	LED		1	A,B,C,D,E,L,N,O,Q
	D654	QSMR-C13/BCMN-X	LED		1	F,G,H
	D654	SML-311WT/JK/X	LED		1	M
	D654	SML-D12V8WT	LED		1	R
	D655	SML-D12V8W-X	LED		1	A,B,C,D,E,L,N,O,Q
	D655	QSMR-C13/BCMN-X	LED		1	F,G,H
	D655	SML-311WT/JK/X	LED		1	M
	D655	SML-D12V8WT	LED		1	R
	D656	SML-D12V8W-X	LED		1	A,B,C,D,E,L,N,O,Q
	D656	QSMR-C13/BCMN-X	LED		1	F,G,H
	D656	SML-311WT/JK/X	LED		1	M
	D656	SML-D12V8WT	LED		1	R
	D657	SML-D12V8W-X	LED		1	A,B,C,D,E,L,N,O,Q
	D657	QSMR-C13/BCMN-X	LED		1	F,G,H
	D657	SML-311WT/JK/X	LED		1	M
	D657	SML-D12V8WT	LED		1	R
	D658	SML-D12V8W-X	LED		1	A,B,C,D,E,L,N,O,Q
	D658	QSMR-C13/BCMN-X	LED		1	F,G,H
	D658	SML-311WT/JK/X	LED		1	M
	D658	SML-D12V8WT	LED		1	R
	D660	SML-D12V8W-X	LED		1	A,B,C,D,E,L,N,O,Q
	D660	QSMR-C13/BCMN-X	LED		1	F,G,H
	D660	SML-311WT/JK/X	LED		1	M
	D660	SML-D12V8WT	LED		1	R
	D661	SML-D12V8W-X	LED		1	A,B,C,D,E,L,N,O,Q
	D661	QSMR-C13/BCMN-X	LED		1	F,G,H
	D661	SML-311WT/JK/X	LED		1	M
	D661	SML-D12V8WT	LED		1	R
	D662	SML-D12V8W-X	LED		1	A,B,C,D,E,L,N,O,Q
	D662	QSMR-C13/BCMN-X	LED		1	F,G,H
	D662	SML-311WT/JK/X	LED		1	M
	D662	SML-D12V8WT	LED		1	R
	D663	SML-D12P8W-X	LED		1	I,J,K,P
	D664	SML-D12V8W-X	LED		1	A,B,C,D,E,L,N,O,Q
	D664	QSMR-C13/BCMN-X	LED		1	F,G,H
	D664	SML-311WT/JK/X	LED		1	M
	D664	SML-D12V8WT	LED		1	R
	D665	SML-D12V8W-X	LED		1	A,B,C,D,E,L,N,O,Q
	D665	QSMR-C13/BCMN-X	LED		1	F,G,H
	D665	SML-311WT/JK/X	LED		1	M
	D665	SML-D12V8WT	LED		1	R
	D666	SML-D12V8W-X	LED		1	A,B,C,D,E,L,N,O,Q
	D666	QSMR-C13/BCMN-X	LED		1	F,G,H
	D666	SML-311WT/JK/X	LED		1	M

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	D666	SML-D12V8WT	LED		1	R
	D667	SML-D12V8W-X	LED		1	A,B,C,D,E,L,N,O,Q
	D667	QSMR-C13/BCMN-X	LED		1	F,G,H
	D667	SML-311WT/JK/X	LED		1	M
	D667	SML-D12V8WT	LED		1	R
	D668	SML-D12V8W-X	LED		1	A,B,C,D,E,L,N,O,Q
	D668	QSMR-C13/BCMN-X	LED		1	F,G,H
	D668	SML-311WT/JK/X	LED		1	M
	D668	SML-D12V8WT	LED		1	R
	D669	SML-D12P8W-X	LED		1	I,J,K,P
	D670	SML-D12P8W-X	LED		1	I,J,K,P
	D671	SML-D12P8W-X	LED		1	I,J,K,P
	D672	SML-D12P8W-X	LED		1	I,J,K,P
	D673	SML-D12P8W-X	LED		1	I,J,K,P
	D674	SML-D12P8W-X	LED		1	I,J,K,P
	D675	SML-D12P8W-X	LED		1	I,J,K,P
	D676	SML-D12P8W-X	LED		1	I,J,K,P
	D677	SML-D12P8W-X	LED		1	I,J,K,P
	D678	SML-D12P8W-X	LED		1	I,J,K,P
	D679	SML-D12P8W-X	LED		1	I,J,K,P
	D680	SML-D12P8W-X	LED		1	I,J,K,P
	D681	SML-D12P8W-X	LED		1	I,J,K,P
	D682	SML-D12V8W-X	LED		1	A,B,C,D,E,L,N,O,Q
	D682	QSMR-C13/BCMN-X	LED		1	F,G,H
	D682	SML-311WT/JK/X	LED		1	M
	D682	SML-D12V8WT	LED		1	R
	D683	SML-D12P8W-X	LED		1	I,J,K,P
	D684	SML-D12P8W-X	LED		1	I,J,K,P
	D685	SML-D12P8W-X	LED		1	I,J,K,P
	D686	SML-D12P8W-X	LED		1	I,J,K,P
	D687	SML-D12P8W-X	LED		1	I,J,K,P
	D688	SML-D12V8W-X	LED		1	A,B,C,D,E,L,N,O,Q
	D688	QSMR-C13/BCMN-X	LED		1	F,G,H
	D688	SML-311WT/JK/X	LED		1	M
	D688	SML-D12V8WT	LED		1	R
	C601	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	
	C602	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	
	C604	CC73GCH1H270J	C CAPACITOR	27pF 50V J	1	
	C605	CC73GCH1H270J	C CAPACITOR	27pF 50V J	1	
	C606	CK73EXR1E106K	C CAPACITOR	10uF 25V K	1	
	C607	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	
	C608	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	
	C610	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C611	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	
	C612	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	
	C614	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C615	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C616	CK73EXR1E106K	C CAPACITOR	10uF 25V K	1	
	C624	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	
	C641	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	A,D,L,M,N,O,Q
	C641	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	R
	R601	RK73FB2B100J	MG RESISTOR	10Ω 1/8W J	1	
	R602	RK73FB2B100J	MG RESISTOR	10Ω 1/8W J	1	
	R603	RK73FB2B4R7J	MG RESISTOR	4.7Ω 1/8W J	1	
	R607	RK73GB2A471J	MG RESISTOR	470Ω 1/10W J	1	
	R608	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R610	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R612	RK73EB2E331J	MG RESISTOR	330Ω 1/4W J	1	
	R613	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R614	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R615	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R616	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R617	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R621	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R623	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R624	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R625	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R626	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R630	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R632	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R633	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R636	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	A,D,L,M,N,O,Q,R
	R638	RK73GB2A432J	MG RESISTOR	4.3kΩ 1/10W J	1	A,B,C,D,E,F,G,H,L,M,N,O,Q,R
	R639	RK73GB2A432J	MG RESISTOR	4.3kΩ 1/10W J	1	I,J,K,P
	R642	RK73GB2A682J	MG RESISTOR	6.8kΩ 1/10W J	1	
	R644	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R645	RK73FB2B000J	MG RESISTOR	0Ω 1/8W J	1	
	R650	RK73FB2B821J	MG RESISTOR	820Ω 1/8W J	1	A,B,C,D,E,L,M,N,O,Q,R
	R650	RK73FB2B122J	MG RESISTOR	1.2kΩ 1/8W J	1	F,G,H
	R652	RK73FB2B821J	MG RESISTOR	820Ω 1/8W J	1	A,B,C,D,E,L,M,N,O,Q,R
	R652	RK73FB2B122J	MG RESISTOR	1.2kΩ 1/8W J	1	F,G,H
	R654	RK73FB2B621J	MG RESISTOR	620Ω 1/8W J	1	A,B,C,D,E,L,M,N,O,Q,R
	R654	RK73FB2B821J	MG RESISTOR	820Ω 1/8W J	1	R
	R654	RK73FB2B821J	MG RESISTOR	820Ω 1/8W J	1	F,G,H
	R656	RK73FB2B621J	MG RESISTOR	620Ω 1/8W J	1	A,B,C,D,E,L,M,N,O,Q,R



MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
						R
	R656	RK73FB2B821J	MG RESISTOR	820Ω 1/8W J	1	F,G,H
	R658	RK73FB2B821J	MG RESISTOR	820Ω 1/8W J	1	A,B,C,D,E,L,M,N,O,Q,
						R
	R658	RK73FB2B122J	MG RESISTOR	1.2kΩ 1/8W J	1	F,G,H
	R660	RK73FB2B621J	MG RESISTOR	620Ω 1/8W J	1	A,B,C,D,E,L,M,N,O,Q,
						R
	R660	RK73FB2B821J	MG RESISTOR	820Ω 1/8W J	1	F,G,H
	R662	RK73FB2B821J	MG RESISTOR	820Ω 1/8W J	1	A,B,C,D,E,L,M,N,O,Q,
						R
	R662	RK73FB2B122J	MG RESISTOR	1.2kΩ 1/8W J	1	F,G,H
	R664	RK73FB2B821J	MG RESISTOR	820Ω 1/8W J	1	A,B,C,D,E,L,M,N,O,Q,
						R
	R664	RK73FB2B122J	MG RESISTOR	1.2kΩ 1/8W J	1	F,G,H
	R666	RK73FB2B621J	MG RESISTOR	620Ω 1/8W J	1	A,B,C,D,E,L,M,N,O,Q,
						R
	R666	RK73FB2B821J	MG RESISTOR	820Ω 1/8W J	1	F,G,H
	R668	RK73FB2B621J	MG RESISTOR	620Ω 1/8W J	1	A,B,C,D,E,L,M,N,O,Q,
						R
	R668	RK73FB2B821J	MG RESISTOR	820Ω 1/8W J	1	F,G,H
	R670	RK73FB2B621J	MG RESISTOR	620Ω 1/8W J	1	A,B,C,D,E,L,M,N,O,Q,
						R
	R670	RK73FB2B821J	MG RESISTOR	820Ω 1/8W J	1	F,G,H
	R672	RK73FB2B821J	MG RESISTOR	820Ω 1/8W J	1	
	R674	RK73FB2B561J	MG RESISTOR	560Ω 1/8W J	1	I,J,K,P
	R676	RK73FB2B751J	MG RESISTOR	750Ω 1/8W J	1	I,J,K,P
	R679	RK73FB2B561J	MG RESISTOR	560Ω 1/8W J	1	I,J,K,P
	R681	RK73FB2B751J	MG RESISTOR	750Ω 1/8W J	1	I,J,K,P
	R683	RK73FB2B561J	MG RESISTOR	560Ω 1/8W J	1	I,J,K,P
	R685	RK73FB2B751J	MG RESISTOR	750Ω 1/8W J	1	I,J,K,P
	R687	RK73FB2B561J	MG RESISTOR	560Ω 1/8W J	1	I,J,K,P
	R689	RK73FB2B751J	MG RESISTOR	750Ω 1/8W J	1	I,J,K,P
	R691	RK73FB2B751J	MG RESISTOR	750Ω 1/8W J	1	I,J,K,P
	R693	RK73FB2B561J	MG RESISTOR	560Ω 1/8W J	1	I,J,K,P
	R695	RK73FB2B561J	MG RESISTOR	560Ω 1/8W J	1	I,J,K,P
	R697	RK73FB2B561J	MG RESISTOR	560Ω 1/8W J	1	I,J,K,P
	RA618	RK74GB1J101J	NET RESISTOR	100Ω 1/16W J	1	
	CN601	QGZ1102K3-20X	CONNECTOR	20P	1	
	CN603	QNZ1076-001	USB CONNECTOR		1	
	EN601	QSW1308-001	ROTARY ENCODER		1	
	J602	QNS0279-001	3.5 JACK		1	
	LF691	NQR0704-001X	CHOKE COIL		1	
	S601	NSW0246-001X	TACT SWITCH		1	
	S602	NSW0246-001X	TACT SWITCH		1	
	S603	NSW0246-001X	TACT SWITCH		1	
	S604	NSW0246-001X	TACT SWITCH		1	
	S605	NSW0246-001X	TACT SWITCH		1	
	S606	NSW0246-001X	TACT SWITCH		1	
	S607	NSW0246-001X	TACT SWITCH		1	
	S608	NSW0246-001X	TACT SWITCH		1	
	S609	NSW0246-001X	TACT SWITCH		1	
	S610	NSW0246-001X	TACT SWITCH		1	
	S611	NSW0246-001X	TACT SWITCH		1	
	S612	NSW0246-001X	TACT SWITCH		1	
	S613	NSW0246-001X	TACT SWITCH		1	
	S614	NSW0246-001X	TACT SWITCH		1	

CD MECHA PWB ASSY (LVA20106-01A) IN CD MECHA <03>

IC1	BD8266EFV-M-X	IC		1	
C26	CK730BW1C106K	C CAPACITOR	10uF 16V K	1	
C54	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
C55	CK730BW1C106K	C CAPACITOR	10uF 16V K	1	
R18	RK73GB2A822J	MG RESISTOR	8.2kΩ 1/10W J	1	
R21	RK73GB2A822J	MG RESISTOR	8.2kΩ 1/10W J	1	
R24	RK73GB2A272J	MG RESISTOR	2.7kΩ 1/10W J	1	
R27	RK73GB2A562J	MG RESISTOR	5.6kΩ 1/10W J	1	
R28	RK73GB2A114J	MG RESISTOR	110kΩ 1/10W J	1	
R29	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
R30	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
R36	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
R37	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
R38	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
R40	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
R42	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
R47	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
R48	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
R50	RK73GB2A131J	MG RESISTOR	130Ω 1/10W J	1	
CN1	QGF1044F2-24X	CONNECTOR	FFC/FPC (1-24)	1	
CN2	QGF0522F6-15W	CONNECTOR	FFC/FPC (1-15)	1	
SW1	NSW0349-001X	DETECT SWITCH		1	
SW2	NSW0349-001X	DETECT SWITCH		1	
SW3	NSW0350-001X	DETECT SWITCH		1	

MAIN PWB ASSY (GEA10358-33A) <04>

△ IC1	TEF6657HN-X	IC		1	R
△ IC161	TDA7718B-X	IC		1	R
△ IC301	JCV8031	IC		1	R
△ IC530	BU33TD3WG-W	IC		1	R
△ IC540	MN6627553APA	IC		1	R
△ IC701	R5S726A0D216FP	IC		1	R

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
		IC710	BR24T02FJ-W-X	IC	1	R
		IC720	BU4228F-W	IC	1	R
△		IC840	JES265E	IC	1	R
△		IC901	LV5684NPVD	IC	1	R
		IC943	BU1CTD3WG-W	IC	1	R
		IC981	BD9876AEFJ-X	IC	1	R
		IC982	NCP380HSNAJAA-X	IC	1	R
		Q250	LTC043TEB-X	DIGI TRANSISTOR	1	R
		Q251	LTC043TEB-X	DIGI TRANSISTOR	1	R
		Q540	2SA2188/F/-X	TRANSISTOR	1	R
		Q541	LTA043EEBFS8	DIGI TRANSISTOR	1	R
		Q542	LTC024EEB-X	DIGI TRANSISTOR	1	R
		Q780	LTA024EEB-X	DIGI TRANSISTOR	1	R
		Q781	LTC024EEB-X	DIGI TRANSISTOR	1	R
		Q782	LTA024EEB-X	DIGI TRANSISTOR	1	R
		Q881	LSCR523UBFS8	TRANSISTOR	1	R
		Q912	LTA014YEB-X	DIGI TRANSISTOR	1	R
		Q940	2SA812/5-6/-X	TRANSISTOR	1	R
		Q941	LTC024EEB-X	DIGI TRANSISTOR	1	R
		Q970	LSCR523UBFS8	TRANSISTOR	1	R
		Q971	LSCR523UBFS8	TRANSISTOR	1	R
		Q972	LSCR523UBFS8	TRANSISTOR	1	R
		D1	NAF0029-002X	ESD SUPPRESSOR	1	R
		D100	RSB6.8SM-X	BP Z DIODE	1	R
		D101	RSB6.8SM-X	BP Z DIODE	1	R
		D300	DA2J101	DIODE	1	R
		D540	GS1J-LTP-X	SI DIODE	1	R
		D541	DZ2J033/M/-X	Z DIODE	1	R
		D780	BAW56-TP-X	SI DIODE	1	R
		D781	BAW56-TP-X	SI DIODE	1	R
		D782	DA2J101	DIODE	1	R
		D783	BAW56-TP-X	SI DIODE	1	R
		D891	BAW56-TP-X	SI DIODE	1	R
△		D901	1N5401-BPC04	SI DIODE	1	R
		D902	SK34A-L-X	SB DIODE	1	R
		D903	DB22306	SCHOTTKY DIODE	1	R
		D906	MBRX130	SCHOTTKY DIODE	1	R
		D907	MBR0530-X	SB DIODE	1	R
		D908	DZ2J051M	Z DIODE	1	R
		D970	DZ2J062M	Z DIODE	1	R
		D971	DZ2J068M	Z DIODE	1	R
		D972	DZ2J062M	Z DIODE	1	R
		D981	SK34A-L-X	SB DIODE	1	R
		D984	GS1J-LTP-X	SI DIODE	1	R
		C1	CC73GCH1H330J	C CAPACITOR	33pF 50V J	1 R
		C3	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1 R
		C5	CK73GBB1C224K	C CAPACITOR	0.22uF 16V K	1 R
		C6	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1 R
		C7	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1 R
		C8	CC73GCH1H010C	C CAPACITOR	1pF 50V C	1 R
		C10	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1 R
		C11	CK73GBB1H152K	C CAPACITOR	1500pF 50V K	1 R
		C12	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1 R
		C13	CC73GCH1H220J	C CAPACITOR	22pF 50V J	1 R
		C14	CC73GCH1H090D	C CAPACITOR	9pF 50V D	1 R
		C17	CK730AX0J106K	C CAPACITOR	10uF 6.3V K	1 R
		C20	CC73GCH1H050C	C CAPACITOR	5pF 50V C	1 R
		C23	CK730AX0J106K	C CAPACITOR	10uF 6.3V K	1 R
		C25	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1 R
		C26	CC73GCH1H010C	C CAPACITOR	1pF 50V C	1 R
		C28	CC73GCH1H120J	C CAPACITOR	12pF 50V J	1 R
		C29	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1 R
		C100	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1 R
		C101	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1 R
		C102	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1 R
		C103	NCB31CK-105X	C CAPACITOR	1uF 16V K	1 R
		C104	NCB31CK-105X	C CAPACITOR	1uF 16V K	1 R
		C105	NCB31CK-105X	C CAPACITOR	1uF 16V K	1 R
		C161	NCB31AK-105X	C CAPACITOR	1uF 10V K	1 R
		C162	NCB31AK-105X	C CAPACITOR	1uF 10V K	1 R
		C163	CD04AV1V4R7M	E CAPACITOR	4.7uF 35V M	1 R
		C164	CD04AV1V4R7M	E CAPACITOR	4.7uF 35V M	1 R
		C165	CD04AV1C100M	E CAPACITOR	10uF 16V M	1 R
		C166	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1 R
		C167	NCB31AK-105X	C CAPACITOR	1uF 10V K	1 R
		C168	NCB31AK-105X	C CAPACITOR	1uF 10V K	1 R
		C169	NCB31AK-105X	C CAPACITOR	1uF 10V K	1 R
		C171	NCB31CK-105X	C CAPACITOR	1uF 16V K	1 R
		C177	NCB31AK-105X	C CAPACITOR	1uF 10V K	1 R
		C250	CC73GCH1H101J	C CAPACITOR	100pF 50V J	1 R
		C251	CK73EBB1C475K	C CAPACITOR	4.7uF 16V K	1 R
		C260	CC73GCH1H101J	C CAPACITOR	100pF 50V J	1 R
		C261	CK73EBB1C475K	C CAPACITOR	4.7uF 16V K	1 R
		C303	CC73GCH1H820J	C CAPACITOR	82pF 50V J	1 R
		C304	CD04AV1C470M	E CAPACITOR	47uF 16V M	1 R
		C305	CC73GCH1H820J	C CAPACITOR	82pF 50V J	1 R
		C306	CC73GCH1H820J	C CAPACITOR	82pF 50V J	1 R

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	C312	CK730AV1C105K	C CAPACITOR	1uF 16V K	1	R
	C316	CK730AV1C224K	C CAPACITOR	0.22uF 16V K	1	R
	C317	CK730AV1C224K	C CAPACITOR	0.22uF 16V K	1	R
	C318	CK730AV1C224K	C CAPACITOR	0.22uF 16V K	1	R
	C319	CK730AV1C224K	C CAPACITOR	0.22uF 16V K	1	R
	C368	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	R
	C369	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	1	R
	C510	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	R
	C530	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	R
	C531	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	R
	C532	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	R
	C533	CD04AV1C470M	E CAPACITOR	47uF 16V M	1	R
	C534	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	R
	C540	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C541	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C542	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	R
	C543	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	R
	C544	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	R
	C545	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	R
	C546	CK73GBB1H682K	C CAPACITOR	6800pF 50V K	1	R
	C547	CK73GBB1H682K	C CAPACITOR	6800pF 50V K	1	R
	C548	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	1	R
	C549	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C550	CK73GBB1C154K	C CAPACITOR	0.15uF 16V K	1	R
	C552	CK73GBB1H682K	C CAPACITOR	6800pF 50V K	1	R
	C553	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C554	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	1	R
	C555	CK73GBB1H223K	C CAPACITOR	0.022uF 50V K	1	R
	C556	CK73GBB1H332K	C CAPACITOR	3300pF 50V K	1	R
	C557	CK73GBB1A334K	C CAPACITOR	0.33uF 10V K	1	R
	C558	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	1	R
	C559	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C560	CC73GCH1H681J	C CAPACITOR	680pF 50V J	1	R
	C561	NCB11AK-106X	C CAPACITOR	10uF 10V K	1	R
	C562	CK73GBB1H153K	C CAPACITOR	0.015uF 50V K	1	R
	C563	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C564	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1	R
	C565	CK73GBB1E823K	C CAPACITOR	0.082uF 25V K	1	R
	C567	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1	R
	C568	CK73GBB1A334K	C CAPACITOR	0.33uF 10V K	1	R
	C570	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C571	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C572	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	R
	C574	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	R
	C576	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C577	CC73GCH1H100D	C CAPACITOR	10pF 50V D	1	R
	C578	CC73GCH1H120J	C CAPACITOR	12pF 50V J	1	R
	C579	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C583	CK73GBB1H821K	C CAPACITOR	820pF 50V K	1	R
	C584	CK73GBB1H821K	C CAPACITOR	820pF 50V K	1	R
	C587	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	R
	C588	CK73GBB1H681K	C CAPACITOR	680pF 50V K	1	R
	C589	CK73GBB1H681K	C CAPACITOR	680pF 50V K	1	R
	C701	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C702	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C703	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C704	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C705	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C707	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C708	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C709	CC73GCH1H090D	C CAPACITOR	9pF 50V D	1	R
	C710	CC73GCH1H090D	C CAPACITOR	9pF 50V D	1	R
	C711	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C712	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C713	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	R
	C714	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C715	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C716	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C717	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C718	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C719	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	R
	C722	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	R
	C723	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	R
	C724	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	R
	C725	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	R
	C726	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	R
	C727	CK73GBB1H682K	C CAPACITOR	6800pF 50V K	1	R
	C728	CK73GBB1C473K	C CAPACITOR	0.047uF 16V K	1	R
	C729	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C730	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C731	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	R
	C780	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	R
	C840	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	R
	C841	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	R
	C842	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	R
	C881	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	R
	C882	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	R

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
		C891	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1 R
		C901	QE20981-228	E CAPACITOR	2200uF	1 R
		C903	CD04AS1C220M	E CAPACITOR	22uF 16V M	1 R
		C904	CD04AR1C471M	E CAPACITOR	470uF 16V M	1 R
		C905	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	1 R
		C907	NCB31AK-105X	C CAPACITOR	1uF 10V K	1 R
		C908	CK73GBB1C224K	C CAPACITOR	0.22uF 16V K	1 R
		C910	NCB31CK-105X	C CAPACITOR	1uF 16V K	1 R
		C911	NCB31CK-105X	C CAPACITOR	1uF 16V K	1 R
		C913	CK73FBB1C105K	C CAPACITOR	1uF 16V K	1 R
		C914	CK73FBB1C105K	C CAPACITOR	1uF 16V K	1 R
		C916	CC73GCH1H070D	C CAPACITOR	7pF 50V D	1 R
		C950	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1 R
		C953	CK73GBB1C474K	C CAPACITOR	0.47uF 16V K	1 R
		C954	CK73GBB1C474K	C CAPACITOR	0.47uF 16V K	1 R
		C955	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	1 R
		C979	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	1 R
		C981	CK73GBB1H682K	C CAPACITOR	6800pF 50V K	1 R
		C984	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1 R
		C986	CK73EXR1E106K	C CAPACITOR	10uF 25V K	1 R
		C987	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1 R
		C988	NCB11AK-106X	C CAPACITOR	10uF 10V K	1 R
		C989	NCB11AK-106X	C CAPACITOR	10uF 10V K	1 R
		C990	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1 R
		C991	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1 R
		C993	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1 R
		R1	RK73GB2A105J	MG RESISTOR	1MΩ 1/10W J	1 R
		R2	RK73GB2A105J	MG RESISTOR	1MΩ 1/10W J	1 R
		R3	RK73GB2A820J	MG RESISTOR	82Ω 1/10W J	1 R
		R4	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1 R
		R5	RK73GB2A4R7J	MG RESISTOR	4.7Ω 1/10W J	1 R
		R7	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1 R
		R8	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1 R
		R20	RK73GB2A100J	MG RESISTOR	10Ω 1/10W J	1 R
		R100	RK73EB2E471J	MG RESISTOR	470Ω 1/4W J	1 R
		R101	RK73FB2B000J	MG RESISTOR	0Ω 1/8W J	1 R
		R103	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1 R
		R104	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1 R
		R167	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1 R
		R168	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1 R
		R169	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1 R
		R170	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1 R
		R171	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1 R
		R250	RK73GB2A181J	MG RESISTOR	180Ω 1/10W J	1 R
		R251	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1 R
		R252	RK73GB2A331J	MG RESISTOR	330Ω 1/10W J	1 R
		R260	RK73GB2A181J	MG RESISTOR	180Ω 1/10W J	1 R
		R261	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1 R
		R262	RK73GB2A331J	MG RESISTOR	330Ω 1/10W J	1 R
		R301	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1 R
		R302	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1 R
		R303	RK73EB2E5R1J	MG RESISTOR	5.1Ω 1/4W J	1 R
		R304	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1 R
		R307	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1 R
		R400	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1 R
		R401	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1 R
		R402	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1 R
		R403	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1 R
		R404	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1 R
		R409	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1 R
		R411	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1 R
		R412	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1 R
		R413	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1 R
		R414	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1 R
		R415	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1 R
		R416	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1 R
		R417	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1 R
		R419	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1 R
		R420	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1 R
		R421	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1 R
		R422	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1 R
		R424	RK73EB2E471J	MG RESISTOR	470Ω 1/4W J	1 R
		R425	RK73EB2E471J	MG RESISTOR	470Ω 1/4W J	1 R
		R427	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1 R
		R431	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1 R
		R434	NR20084-0R0X	MG RESISTOR	0Ω	1 R
		R435	RK73GB2A1R0J	MG RESISTOR	1Ω 1/10W J	1 R
		R436	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1 R
		R438	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1 R
		R440	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1 R
		R442	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1 R
		R447	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1 R
		R448	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1 R
		R449	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1 R
		R450	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1 R

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	R452	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	R
	R453	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	R
	R454	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	R
	R463	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	R
	R467	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	R
	R468	NR20084-0R0X	MG RESISTOR	0Ω	1	R
	R486	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	R
	R530	RK73EB2E100J	MG RESISTOR	10Ω 1/4W J	1	R
	R541	RK73GB2A562J	MG RESISTOR	5.6kΩ 1/10W J	1	R
	R542	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	R
	R543	RK73GB2A562J	MG RESISTOR	5.6kΩ 1/10W J	1	R
	R544	RK73GB2A183J	MG RESISTOR	18kΩ 1/10W J	1	R
	R546	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	R
	R548	RK73GB2A123J	MG RESISTOR	12kΩ 1/10W J	1	R
	R550	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	R
	R551	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	R
	R554	RK73GB2A225J	MG RESISTOR	2.2MΩ 1/10W J	1	R
	R555	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	R
	R556	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R557	RK73EB2E4R7J	MG RESISTOR	4.7Ω 1/4W J	1	R
	R558	RK73GB2A821J	MG RESISTOR	820Ω 1/10W J	1	R
	R559	RK73GB2A272J	MG RESISTOR	2.7kΩ 1/10W J	1	R
	R561	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	R
	R562	RK73EB2E823J	MG RESISTOR	82kΩ 1/4W J	1	R
	R563	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	R
	R569	RK73EB2E102J	MG RESISTOR	1kΩ 1/4W J	1	R
	R570	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	R
	R571	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	R
	R572	RK73GB2A221J	MG RESISTOR	220Ω 1/10W J	1	R
	R573	RK73GB2A105J	MG RESISTOR	1MΩ 1/10W J	1	R
	R577	RK73GB2A330J	MG RESISTOR	33Ω 1/10W J	1	R
	R578	RK73GB2A330J	MG RESISTOR	33Ω 1/10W J	1	R
	R579	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	R
	R580	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	R
	R589	RK73GB2A821J	MG RESISTOR	820Ω 1/10W J	1	R
	R590	RK73GB2A821J	MG RESISTOR	820Ω 1/10W J	1	R
	R591	RK73EB2E431J	MG RESISTOR	430Ω 1/4W J	1	R
	R701	RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	R
	R702	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	R
	R703	RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	R
	R704	RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	R
	R705	RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	R
	R706	RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	R
	R707	RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	R
	R708	RK73GB2A911J	MG RESISTOR	910Ω 1/10W J	1	R
	R709	RK73GB2A332J	MG RESISTOR	3.3kΩ 1/10W J	1	R
	R710	RK73GB2A104J	MG RESISTOR	100kΩ 1/10W J	1	R
	R717	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	R
	R718	RK73EB2E222J	MG RESISTOR	2.2kΩ 1/4W J	1	R
	R719	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	R
	R720	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	R
	R721	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	R
	R722	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	R
	R723	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	R
	R725	RK73GB2A363J	MG RESISTOR	36kΩ 1/10W J	1	R
	R726	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R727	RK73GB2A911J	MG RESISTOR	910Ω 1/10W J	1	R
	R728	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R729	RK73GB2A105J	MG RESISTOR	1MΩ 1/10W J	1	R
	R730	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	R
	R731	RK73GB2A153J	MG RESISTOR	15kΩ 1/10W J	1	R
	R732	RK73GB2A153J	MG RESISTOR	15kΩ 1/10W J	1	R
	R733	RK73GB2A220J	MG RESISTOR	22Ω 1/10W J	1	R
	R734	RK73GB2A220J	MG RESISTOR	22Ω 1/10W J	1	R
	R735	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R738	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R739	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R743	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R745	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R746	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R747	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R748	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R749	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R756	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R757	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R758	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	R
	R759	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	R
	R760	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	R
	R761	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	R
	R762	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	R
	R763	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	R
	R764	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	R
	R765	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	R
	R769	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R773	RK73EB2E102J	MG RESISTOR	1kΩ 1/4W J	1	R
	R776	RK73GB2A271J	MG RESISTOR	270Ω 1/10W J	1	R
	R777	RK73GB2A271J	MG RESISTOR	270Ω 1/10W J	1	R

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	R779	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	R
	R780	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	R
	R781	RK73GB2A331J	MG RESISTOR	330Ω 1/10W J	1	R
	R783	RK73GB2A104J	MG RESISTOR	100kΩ 1/10W J	1	R
	R784	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	R
	R840	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R841	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R842	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	R
	R881	RK73GB2A333J	MG RESISTOR	33kΩ 1/10W J	1	R
	R882	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	R
	R883	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	R
	R884	RK73GB2A104J	MG RESISTOR	100kΩ 1/10W J	1	R
	R885	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	R
	R886	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	R
	R891	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	R
	R892	RK73GB2A683J	MG RESISTOR	68kΩ 1/10W J	1	R
	R893	RK73GB2A123J	MG RESISTOR	12kΩ 1/10W J	1	R
	R901	RK73GB2A333J	MG RESISTOR	33kΩ 1/10W J	1	R
	R902	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	R
	R903	RK73GB2A273J	MG RESISTOR	27kΩ 1/10W J	1	R
	R904	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	R
	R905	RK73GB2A100J	MG RESISTOR	10Ω 1/10W J	1	R
	R908	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	R
	R911	RK73EB2E472J	MG RESISTOR	4.7kΩ 1/4W J	1	R
	R914	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	R
	R915	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	R
	R921	RK73EB2E103J	MG RESISTOR	10kΩ 1/4W J	1	R
	R940	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	R
	R941	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	R
	R969	RK73GB2A563J	MG RESISTOR	56kΩ 1/10W J	1	R
	R970	RK73FB2B683J	MG RESISTOR	68kΩ 1/8W J	1	R
	R971	RK73FB2B473J	MG RESISTOR	47kΩ 1/8W J	1	R
	R972	RK73GB2A104J	MG RESISTOR	100kΩ 1/10W J	1	R
	R973	RK73GB2A333J	MG RESISTOR	33kΩ 1/10W J	1	R
	R974	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	R
	R975	RK73GB2A333J	MG RESISTOR	33kΩ 1/10W J	1	R
	R976	RK73GB2A104J	MG RESISTOR	100kΩ 1/10W J	1	R
	R977	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	R
	R978	RK73EB2E473J	MG RESISTOR	47kΩ 1/4W J	1	R
	R979	RK73EB2E682J	MG RESISTOR	6.8kΩ 1/4W J	1	R
	R980	RK73EB2E682J	MG RESISTOR	6.8kΩ 1/4W J	1	R
	R982	RK73GH2A183D	MG RESISTOR	18kΩ 1/10W D	1	R
	R984	RK73GH2A432D	MG RESISTOR	4.3kΩ 1/10W D	1	R
	R985	RK73GB2A471J	MG RESISTOR	470Ω 1/10W J	1	R
	R986	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	R
	R987	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	R
	R988	RK73EB2E222J	MG RESISTOR	2.2kΩ 1/4W J	1	R
	R989	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	R
	R990	RK73GH2A203D	MG RESISTOR	20kΩ 1/10W D	1	R
	L3	NQLM93K-R10X	COIL	0.1uH K	1	R
	L5	NQLM93K-4R7X	COIL	4.7uH K	1	R
	L6	NQLM93K-R15X	COIL	0.15uH K	1	R
	L7	NQLM93K-R47X	COIL	0.47uH K	1	R
	L8	NQLM93K-1R0X	COIL	1uH K	1	R
	L9	LR73Z0AD4R7M	COIL	4.7uH	1	R
	L10	NQLM93K-R12X	COIL	0.12uH K	1	R
	L11	NQLM93K-R22X	COIL	0.22uH K	1	R
	L540	LB73G0BA-005	CHIP FERRITE		1	R
	L541	LB73G0BA-005	CHIP FERRITE		1	R
	L542	LB73G0BA-005	CHIP FERRITE		1	R
	L574	LB73G0BA-005	CHIP FERRITE		1	R
	L701	LB73G0BA-005	CHIP FERRITE		1	R
	L750	LB73G0CA-002	CHIP FERRITE		1	R
	L751	NQR0269-030X	FERRITE BEADS		1	R
	L752	LB73G0BA-005	CHIP FERRITE		1	R
	L753	LB73G0BA-005	CHIP FERRITE		1	R
	L754	LB73G0BA-005	CHIP FERRITE		1	R
	L755	LB73G0BA-005	CHIP FERRITE		1	R
	L756	LB73G0BA-005	CHIP FERRITE		1	R
	L757	LB73G0BA-005	CHIP FERRITE		1	R
	L758	LB73G0BK-006	CHIP FERRITE		1	R
	L777	LB73G0BA-005	CHIP FERRITE		1	R
	L778	LB73G0BA-005	CHIP FERRITE		1	R
	L779	LB73G0BA-005	CHIP FERRITE		1	R
	L780	LB73G0BA-005	CHIP FERRITE		1	R
	L781	LB73G0BA-005	CHIP FERRITE		1	R
	L782	LB73G0BA-005	CHIP FERRITE		1	R
	L783	LB73G0BA-005	CHIP FERRITE		1	R
	L841	LB73G0BK-006	CHIP FERRITE		1	R
	L901	QQR1909-001	CHOKE COIL		1	R
	L941	LR73Z0AD4R7M	COIL	4.7uH	1	R
	L981	NQLN9EM-150X	COIL	15uH M	1	R
	L982	LK73Z0AK4R7M	P COIL	4.7uH	1	R
	CN502	QGF1040F1-24	CONNECTOR	FFC/FPC 24P	1	R
	CN701	QGZ1102J1-20	CONNECTOR	20P	1	R
	CN901	QNZ0607-001	CAR CONNECTOR		1	R
	J1	QNB0356-001	ANT TERMINAL		1	R

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-R450J	A	KD-R451E	B	KD-R451EN	C	KD-R451EU	D
KD-R451EY	E	KD-R452E	F	KD-R452EN	G	KD-R452EY	H
KD-R453E	I	KD-R453EN	J	KD-R453EY	K	KD-R454UI	L
KD-R455U	M	KD-R456U	N	KD-R456UT	O	KD-R457EE	P
KD-R459UR	Q	KD-SR40J	R				

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	J321	QNN0874-001	PIN JACK		1	R
	S701	QSW0648-001Z	TACT SWITCH		1	R
	X1	QAX0969-001Z	CRYSTAL		1	R
	X540	NAX1224-001X	CRYSTAL		1	R
	X701	NAX1243-001X	CRYSTAL		1	R



# REVISION INFORMATION

## CD RECEIVER

**KD-R450J, KD-R451E, KD-R451EN, KD-R451EU,  
KD-R451EY, KD-R452E, KD-R452EN, KD-R452EY,  
KD-R453E, KD-R453EN, KD-R453EY, KD-R454UI,  
KD-R455U, KD-R456U, KD-R456UT, KD-R457EE,  
KD-R459UR, KD-SR40J**

### ■ OVERVIEW

Add KD-SR40J

### ■ DETAILS

#### COVER SECTION

Title	Line	No.MA565<Rev.001>	No.MA565<Rev.002>	Description
Revision		Rev. <b>001</b>	Rev. <b>002</b>	
Issue Date		<b>2013/12</b>	<b>2014/03</b>	
Model No.		KD-R450J, KD-R451E, KD-R451EN, KD-R451EU, KD-R451EY, KD-R452E, KD-R452EN, KD-R452EY, KD-R453E, KD-R453EN, KD-R453EY, KD-R454UI, KD-R455U, KD-R456U, KD-R456UT, KD-R457EE, KD-R459UR	KD-R450J, KD-R451E, KD-R451EN, KD-R451EU, KD-R451EY, KD-R452E, KD-R452EN, KD-R452EY, KD-R453E, KD-R453EN, KD-R453EY, KD-R454UI, KD-R455U, KD-R456U, KD-R456UT, KD-R457EE, KD-R459UR, <b>KD-SR40J</b>	
Copyright		COPYRIGHT (C) <b>2013</b> JVC KENWOOD Corporation	COPYRIGHT (C) <b>2014</b> JVC KENWOOD Corporation	
SPECIFICATION	48	Weight 1.2 kg (2.65 lbs)	Weight Except <b>KD-SR40J</b> : 1.2 kg (2.65 lbs) For <b>KD-SR40J</b> : 1.2 kg ( <b>2.7 lbs</b> )	



# STANDARD SCHEMATIC DIAGRAMS

## Schematic Diagram

Diagram Name	No.MA565<Rev.001>	No.MA565<Rev.002>	Description
Menu	MAIN PWB ASSY-1 (GEA10358-xxA)	MAIN PWB ASSY-1 (Except GEA10358-33A)	
Menu	MAIN PWB ASSY-2 (GEA10358-xxA)	MAIN PWB ASSY-2 (Except GEA10358-33A)	
Menu	-	MAIN PWB ASSY-1 (GEA10358-33A) ma565_s003.svgz	
Menu	-	MAIN PWB ASSY-2 (GEA10358-33A) ma565_s004.svgz	

## Printed Circuit Board

Diagram Name	No.MA565<Rev.001>	No.MA565<Rev.002>	Description
Menu	MAIN PWB ASSY GEA10358-xxA (GEB10358-001C)	MAIN PWB ASSY Except GEA10358-33A (GEB10358-001C)	
Menu	-	MAIN PWB ASSY GEA10358-33A (GEB10358-001D) ma565_p003.svgz	

## Description of Major ICs

Diagram Name	No.MA565<Rev.001>	No.MA565<Rev.002>	Description
Menu	-	04IC981: BD9876AEFJ-X BD9876AEFJ-X.xml	
Menu	01IC710: BR24T02FJ-W-X	04IC710: BR24T02FJ-W-X	
Menu	01IC943: BU1CTD3WG-W	04IC943: BU1CTD3WG-W	
Menu	01IC530: BU33TD3WG-W	04IC530: BU33TD3WG-W	
Menu	01IC720: BU4228F-W	04IC720: BU4228F-W	
Menu	01IC901: LV5684NPVD	04IC901: LV5684NPVD	
Menu	01IC540: MN6627553APA	04IC540: MN6627553APA	
Menu	01IC982: NCP380HSNAJAA-X	04IC982: NCP380HSNAJAA-X	
Menu	01IC161: TDA7718B-X	04IC161: TDA7718B-X	
Menu	01IC301: JCV8031	04IC301: JCV8031	
Menu	01IC1: TEF6657HN-X	04IC1: TEF6657HN-X	
Menu	01IC840: JES265E	04IC840: JES265E	

# PARTS LIST

## MODEL No. LIST

Model No.	No.MA565<Rev.002>
KD-R450J	01
KD-R451E	02
KD-R451EN	03
KD-R451EU	04
KD-R451EY	05
KD-R452E	06
KD-R452EN	07
KD-R452EY	08
KD-R453E	09
KD-R453EN	0A
KD-R453EY	0B
KD-R454UI	0C
KD-R455U	0D
KD-R456U	0E
KD-R456UT	0F
KD-R457EE	10
KD-R459UR	11
KD-SR40J	12

## EXPLODED VIEW (UNIT) [M1MM]

△	Symbol	or	Part No.		Part Name	Description	Qty	Models
			<Rev.001>	<Rev.002>				
△	M1MM	DC1	QAM1326-001	QAM1326-001	DC CORD		1	01,0C,0D,0E,0F,12
△	M1MM	DC2	QAM1345-003	QAM1345-003	DC CORD		1	02,03,05,06,07,08,09,0A,0B
△	M1MM	DC2	QAM1344-002	QAM1344-002	DC CORD		1	04,10
△	M1MM	DC2	QAM1378-001	QAM1378-001	DC CORD		1	11
	M1MM	205	-----	GE40514-004A	TORSION SPRING	(Addition)	1	12
	M1MM	211	-----	GE20358-023A	FINDER	(Addition)	1	12
	M1MM	213	-----	GE20360-002A	PRESET BUTTON	(Addition)	1	12
	M1MM	220	-----	GE35699-005A	VOL KNOB	(Addition)	1	12
	M1MM	501	-----	GET1002-001A	INST MANUAL	(Addition)	1	12

## EXPLODED VIEW (CD MECHANISM: FC2-2A00NXN) [MBMM]

△	Symbol	or	Part No.		Part Name	Description	Qty	Models
			<Rev.001>	<Rev.002>				
	MBMM	DPU1	QAL1521-001	QAL1521-001	PICK UP	Delete △	1	01,02,03,04,05,06,07,08,09,0A,0B,0C,0D,0E,0F,10,11,12

## MAIN PWB ASSY (Except GEA10358-33A) [01]

△	Symbol	or	Part No.		Part Name	Description	Qty	Models
			<Rev.001>	<Rev.002>				
	01	B1	QUY158-075Y	-----	IM BUS WIRE	(Deletion)	1	01,02,03,04,05,06,07,08,09,0A,0B,0C,0D,0E,0F,10,11
	01	B2	QUY158-075Y	-----	IM BUS WIRE	(Deletion)	1	01,02,03,04,05,06,07,08,09,0A,0B,0C,0D,0E,0F,10,11
	01	B3	QUY158-075Y	-----	IM BUS WIRE	(Deletion)	1	01,02,03,04,05,06,07,08,09,0A,0B,0C,0D,0E,0F,10,11
	01	B4	QUY158-050Y	-----	IM BUS WIRE	(Deletion)	1	01,02,03,04,05,06,07,08,09,0A,0B,0C,0D,0E,0F,10,11
	01	B5	QUY158-150Y	-----	IM BUS WIRE	(Deletion)	1	01,02,03,04,05,06,07,08,09,0A,0B,0C,0D,0E,0F,10,11
	01	B6	QUY158-150Y	-----	IM BUS WIRE	(Deletion)	1	01,02,03,04,05,06,07,08,09,0A,0B,0C,0D,0E,0F,10,11
	01	B7	QUY158-200Y	-----	IM BUS WIRE	(Deletion)	1	01,02,03,04,05,06,07,08,09,0A,0B,0C,0D,0E,0F,10,11
	01	B8	QUY158-075Y	-----	IM BUS WIRE	(Deletion)	1	01,02,03,04,05,06,07,08,09,0A,0B,0C,0D,0E,0F,10,11

Δ	Symbol	or	Part No.		Part Name	Description	Qty	Models
			<Rev.001>	<Rev.002>				
	01	B9	QUY158-050Y	-----	IM BUS WIRE	(Deletion)	1	01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B, 0C, 0D, 0E, 0F, 10, 11
	01	B10	QUY158-050Y	-----	IM BUS WIRE	(Deletion)	1	01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B, 0C, 0D, 0E, 0F, 10, 11
	01	B11	QUY158-050Y	-----	IM BUS WIRE	(Deletion)	1	01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B, 0C, 0D, 0E, 0F, 10, 11
	01	B12	QUY158-175Y	-----	IM BUS WIRE	(Deletion)	1	01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B, 0C, 0D, 0E, 0F, 10, 11
	01	B13	QUY158-050Y	-----	IM BUS WIRE	(Deletion)	1	01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B, 0C, 0D, 0E, 0F, 10, 11

#### SW PWB ASSY (GEA10361-xxA) [02]

Δ	Symbol	or	Part No.		Part Name	Description	Qty	Models
			<Rev.001>	<Rev.002>				
	02	Q603	-----	LSCR523EBFS8	TRANSISTOR	(Addition)	1	12
	02	Q605	-----	LSCR523EBFS8	TRANSISTOR	(Addition)	1	12
	02	Q606	-----	LTA014EEBFS8	DIGI TRANSISTOR	(Addition)	1	12
	02	Q607	-----	LTC014EEBFS8	DIGI TRANSISTOR	(Addition)	1	12
	02	D605	-----	DZ2J051M	Z DIODE	(Addition)	1	12
	02	D607	-----	DZ2J051M	Z DIODE	(Addition)	1	12
	02	D610	-----	DZ2J051M	Z DIODE	(Addition)	1	12
	02	D611	-----	DZ2J051M	Z DIODE	(Addition)	1	12
	02	D612	-----	DZ2J062M	Z DIODE	(Addition)	1	12
	02	D614	-----	MBRX130	SCHOTTKY DIODE	(Addition)	1	12
	02	D615	-----	MBRX130	SCHOTTKY DIODE	(Addition)	1	12
	02	D651	-----	SML-D12V8WT	LED	(Addition)	1	12
	02	D653	-----	SML-D12V8WT	LED	(Addition)	1	12
	02	D654	-----	SML-D12V8WT	LED	(Addition)	1	12
	02	D655	-----	SML-D12V8WT	LED	(Addition)	1	12
	02	D656	-----	SML-D12V8WT	LED	(Addition)	1	12
	02	D657	-----	SML-D12V8WT	LED	(Addition)	1	12
	02	D658	-----	SML-D12V8WT	LED	(Addition)	1	12
	02	D660	-----	SML-D12V8WT	LED	(Addition)	1	12
	02	D661	-----	SML-D12V8WT	LED	(Addition)	1	12
	02	D662	-----	SML-D12V8WT	LED	(Addition)	1	12
	02	D664	-----	SML-D12V8WT	LED	(Addition)	1	12
	02	D665	-----	SML-D12V8WT	LED	(Addition)	1	12
	02	D666	-----	SML-D12V8WT	LED	(Addition)	1	12
	02	D667	-----	SML-D12V8WT	LED	(Addition)	1	12
	02	D668	-----	SML-D12V8WT	LED	(Addition)	1	12
	02	D682	-----	SML-D12V8WT	LED	(Addition)	1	12
	02	D688	-----	SML-D12V8WT	LED	(Addition)	1	12
	02	C641	-----	NCB31AK-105X	C CAPACITOR	(Addition)	1	12

#### CD MECHA PWB ASSY (LVA20106-01A) IN CD MECHA [03]

Δ	Symbol	or	Part No.		Part Name	Description	Qty	Models
			<Rev.001>	<Rev.002>				
	03	SW1	NSW0291-001X	NSW0349-001X	DETECT SWITCH		1	01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B, 0C, 0D, 0E, 0F, 10, 11, 12
	03	SW2	NSW0291-001X	NSW0349-001X	DETECT SWITCH		1	01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B, 0C, 0D, 0E, 0F, 10, 11, 12
	03	SW3	NSW0313-001X	NSW0350-001X	DETECT SWITCH		1	01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B, 0C, 0D, 0E, 0F, 10, 11, 12

#### MAIN PWB ASSY (GEA10358-33A) [04]

Add Part list





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