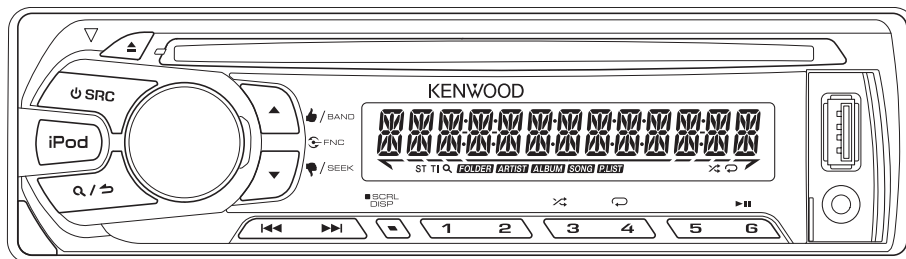


KENWOOD

SERVICE MANUAL

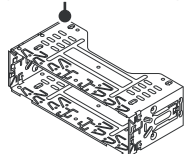
CD RECEIVER

**KDC-100Q, KDC-118U, KDC-120RY, KDC-158U, KDC-161UB,
KDC-161UG, KDC-161UR, KDC-161URY, KDC-261UB,
KDC-261UR, KDC-MP158U, KDC-U2059, KDC-U2159B,
KDC-U2259R, KDC-U2359G, KDC-U259A, KDC-U259B,
KDC-U259G, KDC-U259R, KDC-U359B, KDC-U359W**

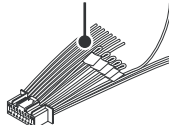


KDC-U259B (China) : C1
KDC-U259B (Other Areas) : M0
KDC-U259G (Korea) : H1
KDC-U259G (Other Areas) : M9

Mounting sleeve
(GE20362-001A)



DC cord
(QAMxxxx-001)



DC cord
(QAM1333-001)



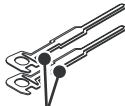
Remote control unit
(RC-406)
(QAL1303-004)



Tap screw (2x8)
(QYSPSF2008ZA)



Hook
(GE40685-001A)
x2



Trim plate
(GExxxx-001A)



DETACHABLE PANEL

Model	Parts number	Part name
KDC-100Q	A64-5638-08	TDF-100QED
KDC-118U	A64-5631-08	TDF-118UKD
KDC-120RY	A64-5637-08	TDF-120RYED
KDC-158U	A64-5625-08	TDF-158UKD
KDC-161UB	A64-5633-08	TDF-161UBED
KDC-161UG	A64-5635-08	TDF-161UGED
KDC-161UR	A64-5634-08	TDF-161URED
KDC-161URY		
KDC-261UB	A64-5627-08	TDF-261UBED
KDC-261UR	A64-5628-08	TDF-261URED
KDC-MP158U	A64-5632-08	TDF-MP158UKD
KDC-U2059	A64-5643-08	TDF-U2059MD
KDC-U2159B	A64-5644-08	TDF-U2159BMD
KDC-U2259R	A64-5645-08	TDF-U2259RMD
KDC-U2359G	A64-5646-08	TDF-U2359GMD
KDC-U259A	A64-5642-08	TDF-U259AMD
KDC-U259B	A64-5639-08	TDF-U259BMD
KDC-U259G	A64-5641-08	TDF-U259GMD
KDC-U259R	A64-5640-08	TDF-U259RMD
KDC-U359B	A64-5630-08	TDF-U359BMD
KDC-U359W	A64-5629-08	TDF-U359WMD



This product uses Lead Free solder.

This product complies with the **RoHS** directive for the European market.

SPECIFICATION

Models for destination "K" (KDC-118U, KDC-158U, KDC-MP158U)

Models		KDC-118U, KDC-158U		KDC-MP158U	
Tuner					
FM	Frequency Range	87.9 MHz - 107.9 MHz (200 kHz space)		87.5 MHz - 108.0 MHz (50 kHz space)	
	Usable Sensitivity	8.2 dBf (0.71 μV/75 Ω)			
	Quieting Sensitivity (DIN S/N = 46 dB)	17.2 dBf (2.0 μV/75 Ω)			
	Frequency Response (±3 dB)	30 Hz - 15 kHz			
	Signal-to-Noise Ratio (MONO)	64 dB			
	Stereo Separation (1 kHz)	40 dB			
AM	Frequency Range	530 kHz - 1 700 kHz (10 kHz space)			
	Usable Sensitivity (S/N= 20 dB)	29 dBμ (38.2 μV)			
CD player					
Laser Diode		GaAIAs			
Digital Filter (D/A)		8 times over sampling			
Spindle Speed		500 rpm - 200 rpm (CLV)			
Wow & Flutter		Below Measurable Limit			
Frequency Response (± 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			
USB					
USB Standard		USB1.1/ 2.0 (Full speed)			
Maximum Supply Current		DC 5 V _{max} 1 A			
File System		FAT12/16/ 32			
MP3 Decode		Compliant with MPEG-1/2 Audio Layer-3			
WMA Decode		Compliant with Windows Media Audio			
WAV Decode		Linear-PCM			
Audio					
Maximum Output Power		50 W × 4			
Full Bandwidth Power		22 W × 4 (at less than 1 % THD)			
Speaker Impedance		4 Ω - 8 Ω			
Tone Action	Bass	200 Hz ± 8 dB			
	Middle	2.5 kHz ± 8 dB			
	Treble	12.5 kHz ± 8 dB			
Preout Level / Load (CD)		2 500 mV/10 kΩ			
Preout Impedance		≤ 600 Ω			
Auxiliary					
Frequency Response (± 3 dB)		20 Hz - 20 kHz			
Input Maximum Voltage		1 200 mV			
Input Impedance		30 kΩ			
General					
Operating Voltage		14.4 V (10.5 V - 16 V allowable)			
Maximum Current Consumption		10 A			
Operational Temperature Range		0°C - +40°C			
Installation Size (W × H × D)		182 mm × 53 mm × 159 mm (7-3/16" × 2-1/8" × 6-1/4")			
Weight		1.2 kg (2.65 lbs)			

Subject to change without notice.

SPECIFICATION

Models for destination "E" (KDC-100Q, KDC-120RY, KDC-161UB, KDC-161UG, KDC-161UR, KDC-161URY, KDC-261UB, KDC-261UR)

Models		Except KDC-100Q	KDC-100Q
Tuner			
FM	Frequency Range	FM1/ FM2/FM3 : 87.5 MHz to 108.0 MHz (50 kHz space)	FM1/ FM2: 87.5 MHz to 108.0 MHz(50 kHz space) FM3: 65.00 MHz to 74.00 MHz (30 kHz space)
	Usable Sensitivity (S/N= 26 dB)	0.71 μV/75 Ω	
	Quieting Sensitivity (DIN S/N = 46 dB)	2.0 μV/75 Ω	
	Frequency Response (± 3 dB)	30 Hz - 15 kHz	
	Signal-to-Noise Ratio (MONO)	64 dB	
	Stereo Separation (1 kHz)	40 dB	
MW	Frequency Range	531 kHz - 1 611 kHz (9 kHz space)	
	Usable Sensitivity (S/N= 20 dB)	28.2 μV	
LW	Frequency Range	153 kHz - 279 kHz (9 kHz space)	
	Usable Sensitivity (S/N= 20 dB)	50 μV	
CD player			
Laser Diode		GaAIAs	
Digital Filter (D/A)		8 times over sampling	
Spindle Speed		500 rpm - 200 rpm (CLV)	
Wow & Flutter		Below Measurable Limit	
Frequency Response (± 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	
USB			
USB standard		USB1.1/ 2.0 (Full speed)	
Maximum Supply Current		DC 5 V---1 A	
File System		FAT12/16/ 32	
MP3 Decode		Compliant with MPEG-1/2 Audio Layer-3	
WMA Decode		Compliant with Windows Media Audio	
WAV Decode		Linear-PCM	
Audio			
Maximum Output Power		50 W × 4	
Output Power (DIN 45324, +B = 14.4 V)		30 W × 4	
Speaker Impedance		4 Ω - 8 Ω	
Tone Action	Bass	200 Hz ± 8 dB	
	Middle	2.5 kHz ± 8 dB	
	Treble	12.5 kHz ± 8 dB	
Preout Level/Load (CD)		2 500 mV/10 kΩ	-
Preout Impedance		≤ 600 Ω	
Auxiliary			
Frequency Response (± 3 dB)		20 Hz - 20 kHz	
Input Maximum Voltage		1 200 mV	
Input Impedance		30 kΩ	
General			
Operating Voltage		14.4 V (10.5 V - 16 V allowable)	
Maximum Current Consumption		10 A	
Operational Temperature Range		0°C - +40°C	
Installation Size (W × H × D)		182 mm × 53 mm × 159 mm	
Weight		1.2 kg	

Subject to change without notice.

SPECIFICATION

Models for destination "M&C&H" (KDC-U2059, KDC-U2159B, KDC-U2259R, KDC-U2359G, KDC-U259A, KDC-U259B, KDC-U259G, KDC-U259R, KDC-U359B, KDC-U359W)

Models		KDC-U2159B / KDC-U2259R / KDC-U2359G		Other models	
Tuner					
FM	Frequency Range	87.5 MHz - 108.0 MHz (50 kHz space)		87.5 MHz to 108.0 MHz (50 kHz space) 87.9 MHz to 107.9 MHz (200 kHz space)	
	Channel Space Selection	-		50 kHz/200 kHz	
	Usable Sensitivity (S/N= 26 dB)	0.71 μV/75 Ω		8.2 dBf (0.71 μV/75 Ω)	
	Quieting Sensitivity (DIN S/N = 46 dB)	2.0 μV/75 Ω		17.2 dBf (2.0 μV/75 Ω)	
	Frequency Response (± 3 dB)	30 Hz - 15 kHz			
	Signal-to-Noise Ratio (MONO)	64 dB			
	Stereo Separation (1 kHz)	40 dB			
MW	Frequency Range	531 kHz - 1 611 kHz (9 kHz space)		-	
	Usable Sensitivity(S/N = 20 dB)	28.2 μV		-	
LW	Frequency Range	153 kHz - 279 kHz (9 kHz space)		-	
	Usable Sensitivity(S/N = 20 dB)	50 μV		-	
Frequency Range	Band 1 (MW)	-		531 kHz to 1 611 kHz (9 kHz space) 530 kHz to 1 700 kHz (10 kHz space)	
	Band 2 (SW1)	-		2 940 kHz to 7 735 kHz (5 kHz space)	
	Band 3 (SW2)	-		9 500 kHz to 10 135 kHz/ 11 580 kHz to 18 135 kHz (5 kHz space)	
Channel Space Selection	Band 1	-		9 kHz/10 kHz	
	Band 2/ 3	-		5 kHz	
Usable Sensitivity (S/N = 20 dB)	MW	-		29.0 Bμ (28.2 μV)	
	SW	-		30 dBμ (32 μV)	
CD player					
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 (± 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			
USB					
USB Standard		USB 1.1, USB 2.0 (Full speed)			
Maximum Supply Current		DC 5 V ₋₋₋ 1 A			
File System		FAT12/ 16/ 32			
MP3 Decode		Compliant with MPEG-1/2 Audio Layer-3			
WMA Decode		Compliant with Windows Media Audio			
WAV Decode		Linear-PCM			
Audio					
Maximum Output Power		50 W × 4			
Output Power (DIN 45324, +B = 14.4 V)		30 W × 4		-	
Full Bandwidth Power(at less than 1% THD)		-		22 W × 4 (at less than 1 % THD)	
Speaker Impedance		4 Ω - 8 Ω			
Tone Action	Bass	200 Hz ± 8 dB			
	Middle	2.5 kHz ± 8 dB			
	Treble	12.5 kHz ± 8 dB			
Preout Level / Load (CD)		2 500 mV/10 kΩ			
Preout Impedance		≤ 600 Ω			
Auxiliary					
Frequency Response (± 3 dB)		20 Hz - 20 kHz			
Input Maximum Voltage		1 200 mV			
Input Impedance		30 kΩ			
General					
Operating Voltage		14.4 V (10.5 V - 16 V allowable)			
Maximum Current Consumption		10 A			
Operational Temperature Range		0°C - +40°C			
Installation Size (W × H × D)		182 mm × 53 mm × 159 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 manufacturer's warranty and will further relieve the manufacturer 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 (Δ) 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.

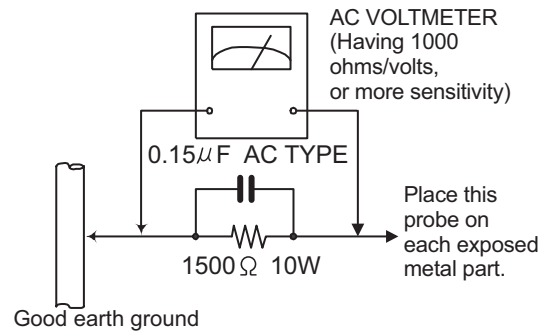
(5) Leakage shock hazard testing

After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 Ω per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC

voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



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 (\blacksquare), diode (\blacktriangle) and ICP (\bullet) or identified by the " Δ " 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 does 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

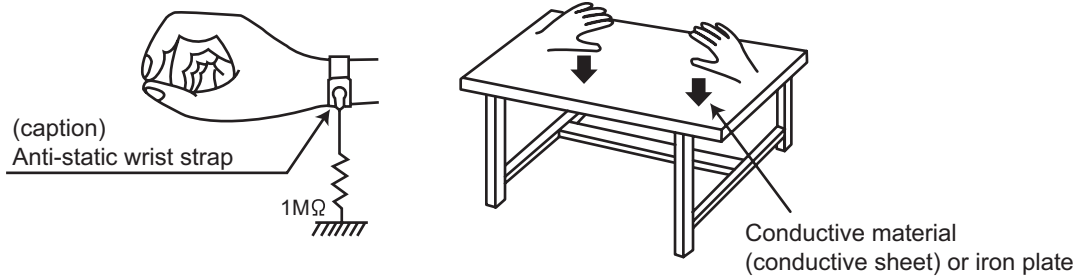
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products. Be careful to use proper grounding in the area where repairs are being performed.

(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.

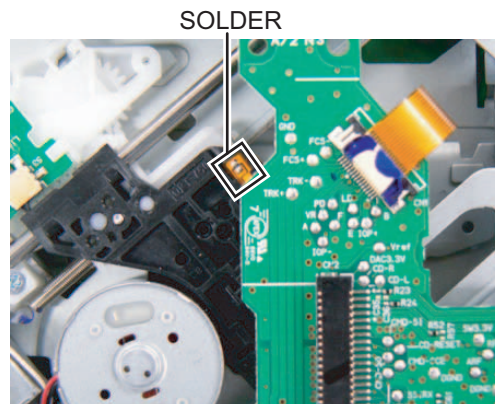
(3) Handle the flexible cable carefully as it may break when subjected to strong force.

(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.

VARNING: 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.

1.9 Remote control

The Lithium battery is in danger of explosion if replaced incorrectly. Replace it only with the same or equivalent type.

SECTION 2

SPECIFIC SERVICE INSTRUCTIONS

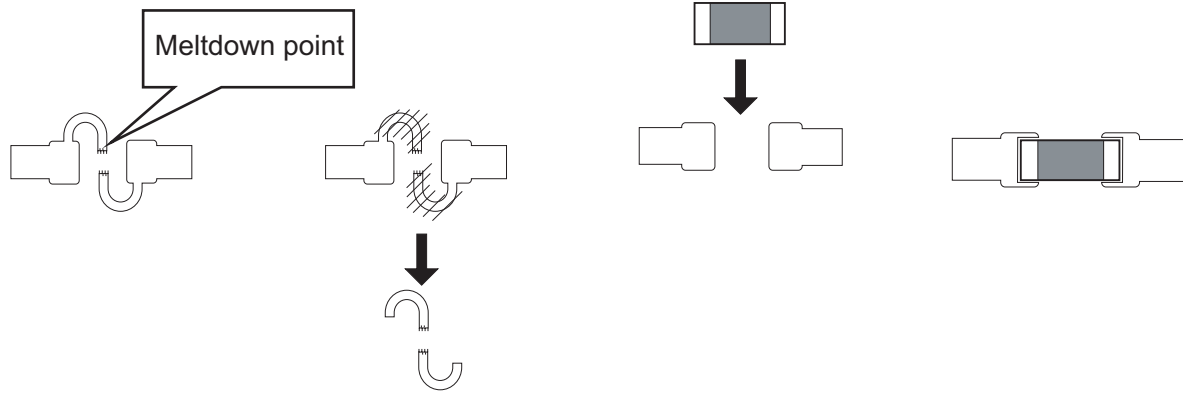
2.1 How to repair a fuse pattern

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.

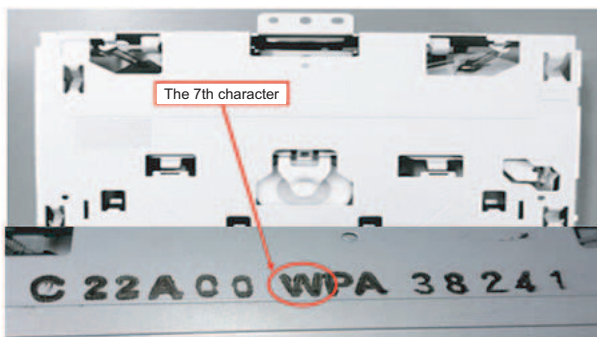
Things to be checked before installing the unit.

- (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 How to identify the CD mechanism ASSY

Production site	Made at JEIN	Made at KETM
CD mechanism ASSY	FC2-2A00NXN	X92-6820-01
PWB ASSY	LVA20106-01A	X32-6680-00
PW BOARD	LVB20106-001B	J76-0898-12
Identification number	xxxxxxNxxxxxx The 7th character is "N".	xxxxxxWxxxxxx The 7th character is "W".

Identification number of the 14 characters are printed on the CD mechanism ASSY upper surface.



2.3 MICROCOMPUTER'S TERMINAL DESCRIPTION

IC701 (R5S726A0D216FP) on MAIN PWB ASSY

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)	
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	

Pin No.	Pin Name	I/O	Application	Processing / Operation / Description
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)	
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	

Pin No.	Pin Name	I/O	Application	Processing / Operation / Description
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)
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

Pin No.	Pin Name	I/O	Application	Processing / Operation / Description
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
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 ass'y (See Fig.1)

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

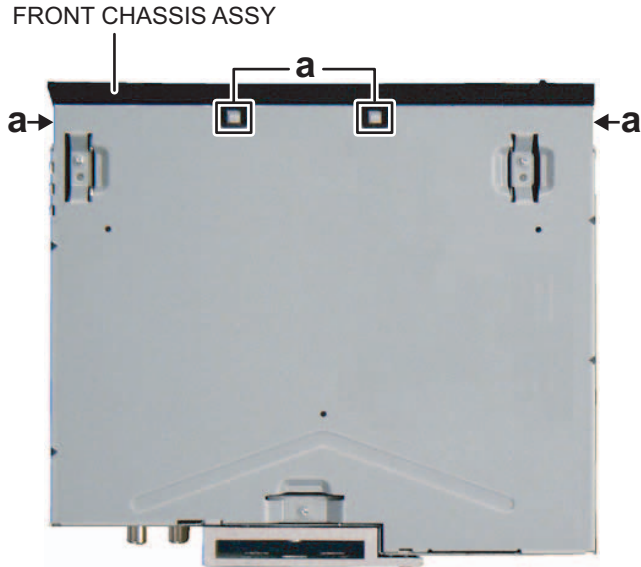


Fig.1

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)

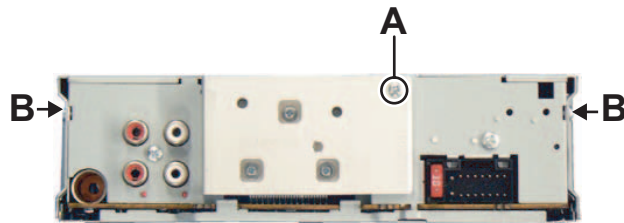


Fig.2

- (2) Remove the 2 screws **C**. (See Fig.3)
(3) Disengage the 3 hooks **b**, and remove the Bottom cover.
(See Fig.3)

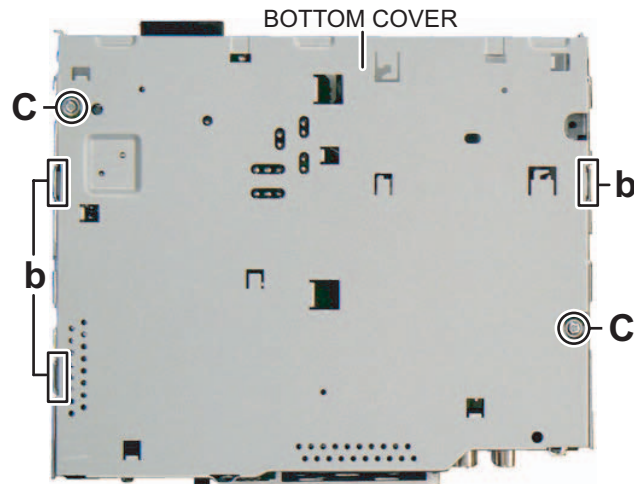


Fig.3

- (4) Disconnect the FFC wire from connector **CN1**. (See Fig.4)

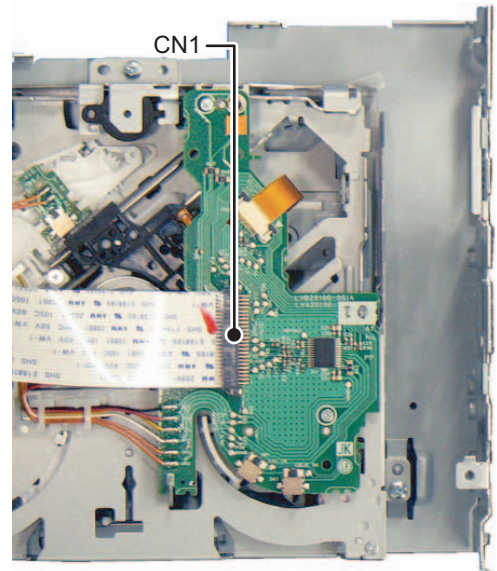
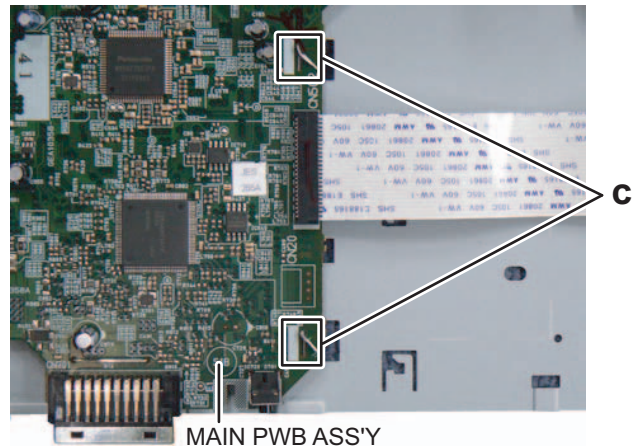


Fig.4

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



MAIN PWB ASS'Y

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)

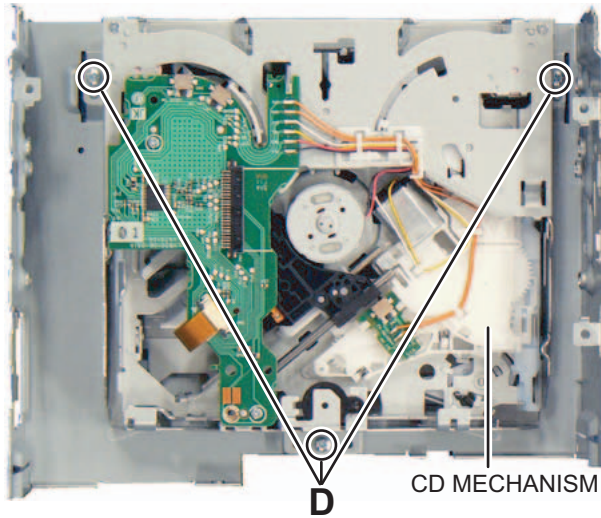


Fig.6

3.1.4 Removing the Switch pwb ass'y (See Fig.7)

- (1) Remove the Volume knob.
- (2) Remove the 3 screws **E**.
- (3) Disengage the 11 hooks **d**, and remove the Rear cover.

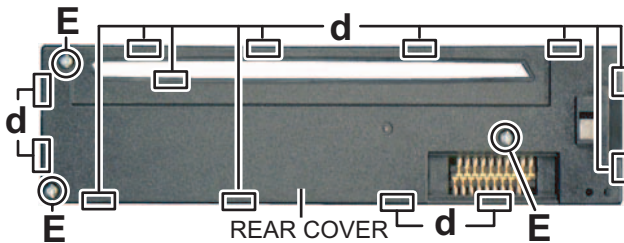
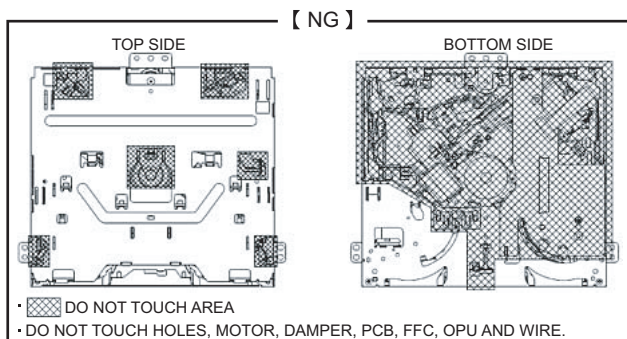
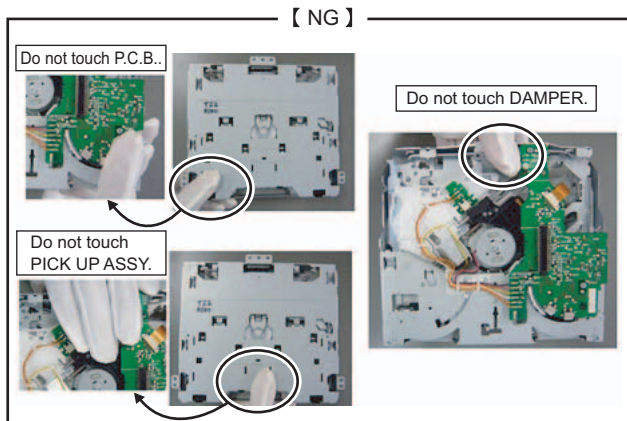
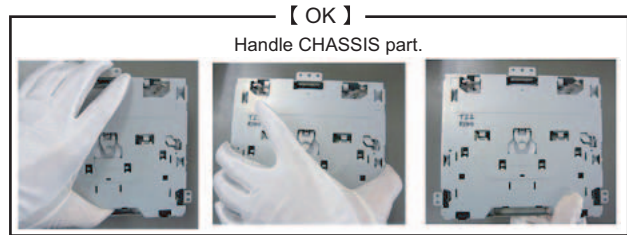


Fig.7

- (4) Remove the Switch pwb ass'y.

3.2 CD mechanism

- NOTICE FOR HANDLING OF MECHANISM ASSY



- THESE PARTS NEED CAUTION OF HANDLING

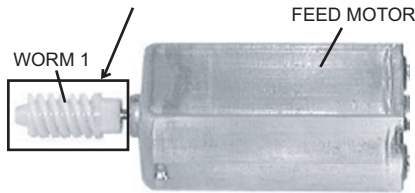
CAUTION:

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

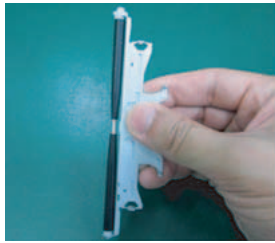
- NOTICE FOR HANDRIG OF FEED MOTR ASSY

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

【 OK 】



【 NG 】



Do not handle roller part.

- NOTICE FOR CLAMPER ASSY OF PICK UP ASSY

【 OK 】

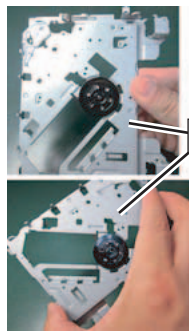


【 NG 】

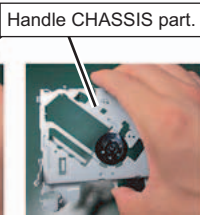


Do not handle the clasper part.

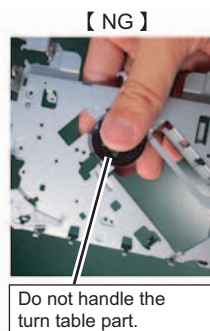
- NOTICE FOR HANDRIG OF MD CHASSIS ASSY



【 OK 】



Handle CHASSIS part.

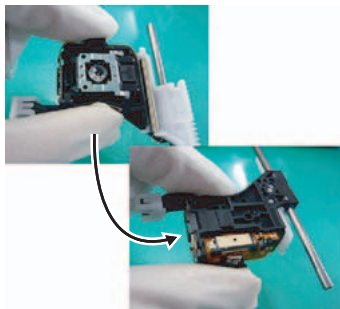


【 NG 】

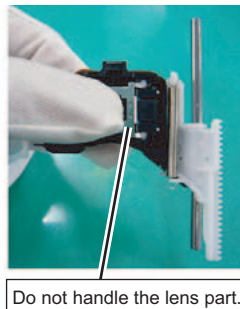
Do not handle the turn table part.

- NOTICE FOR HANDRIG OF PICK UP ASSY

【 OK 】



【 NG 】



Do not handle the lens part.

3.2.1 Removing the CD MECHA PWB ASSY (See Fig.1 to 3)

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

SOLDER

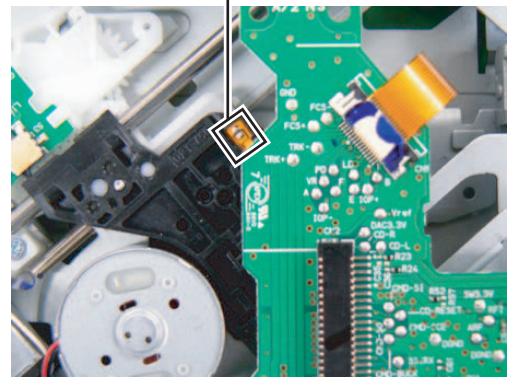


Fig.1

(2) Remove the 6 wires from the CD MECHA PWB ASSY. (See Fig.2)

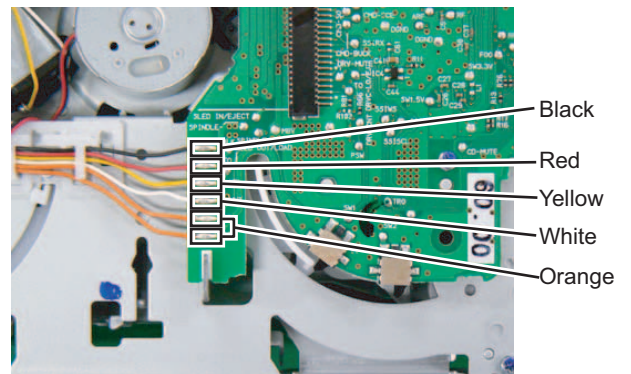


Fig.2

(3) Disconnect the FPC wire from the connector [CN1](#) (CD Player unit). (See Fig.3)

(4) Remove the 3 screws **A** attaching the CD MECHA PWB ASSY. (See Fig.3)

(5) Remove the CD MECHA PWB ASSY. (See Fig.3)

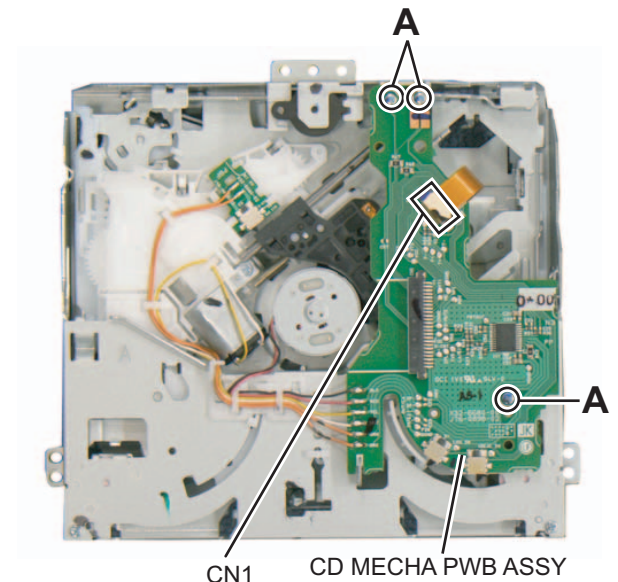


Fig.3

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

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

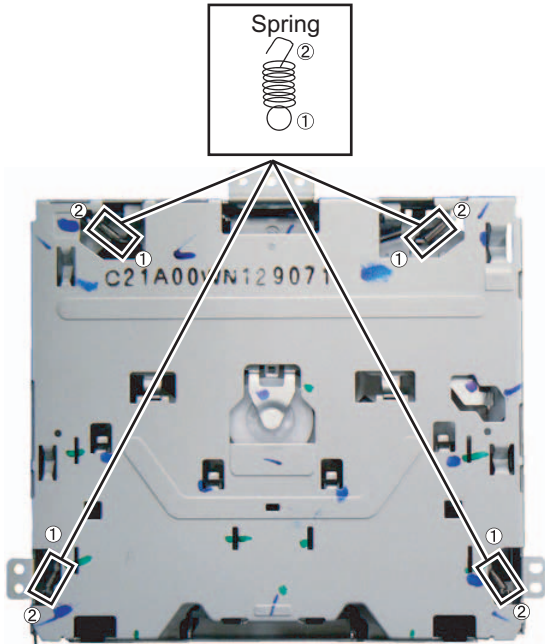


Fig.4

- (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)

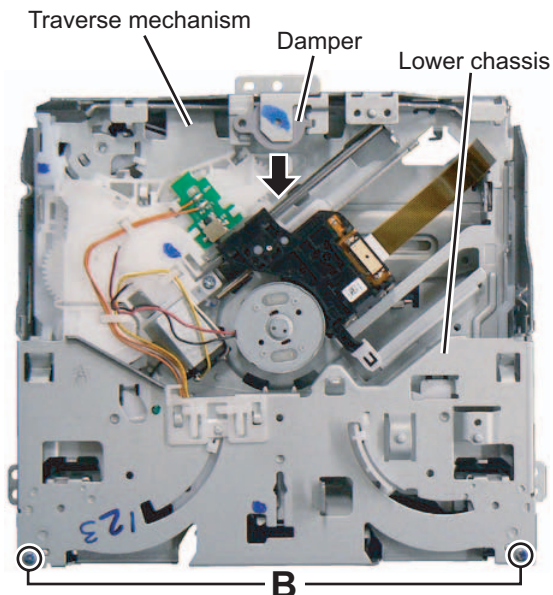


Fig.5

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.

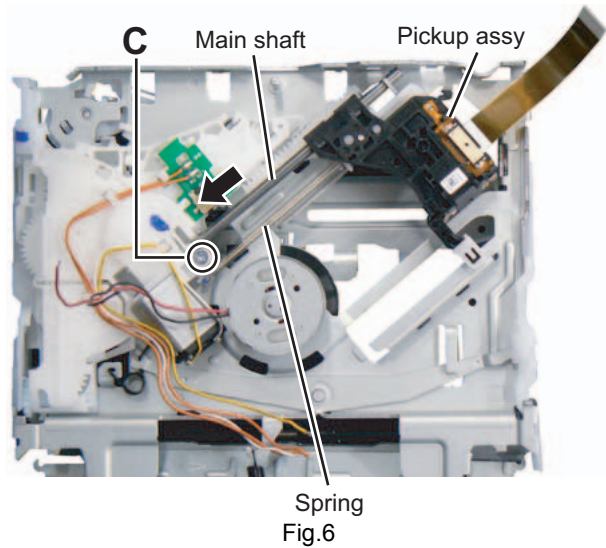


Fig.6

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.

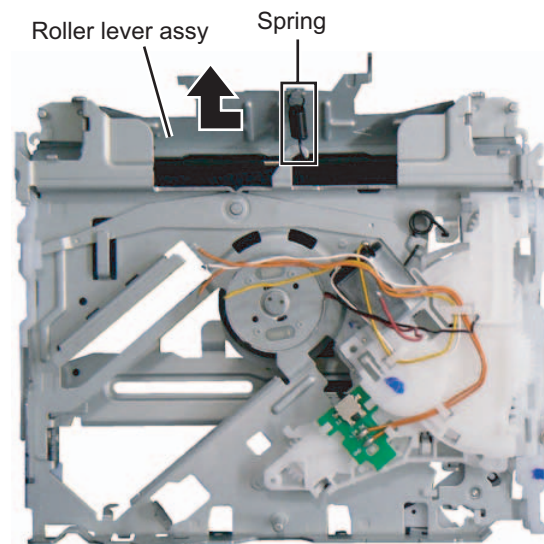


Fig.7

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.

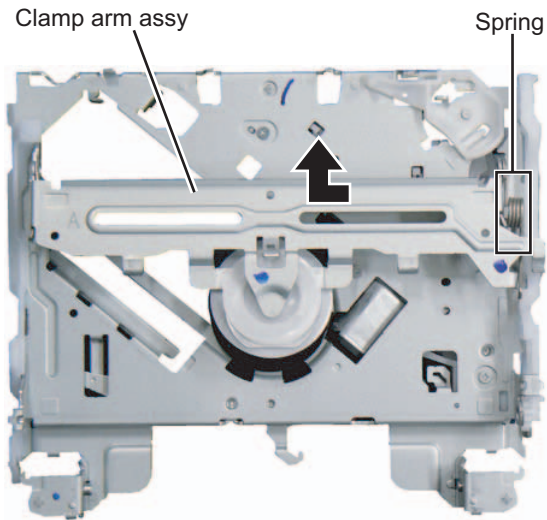


Fig.8

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)

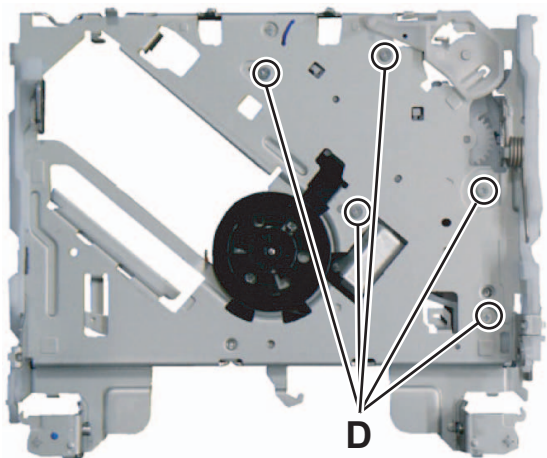


Fig.9

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

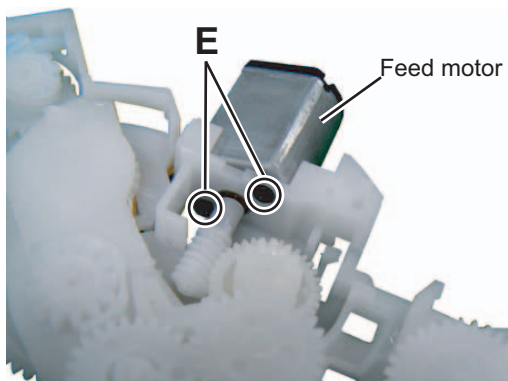
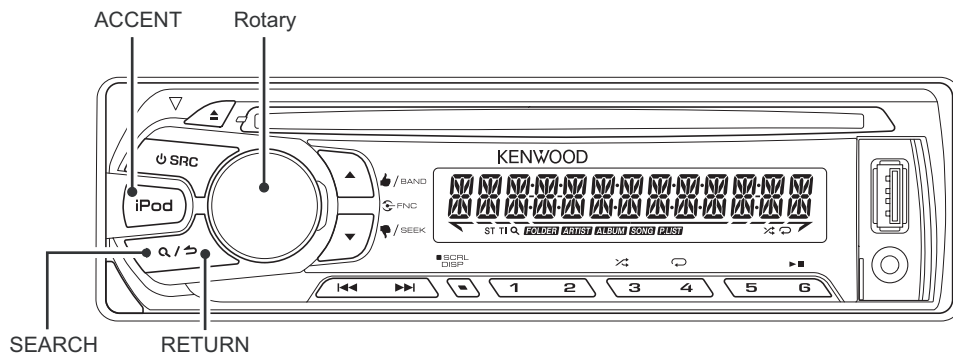


Fig.10

SECTION 4 ADJUSTMENT

4.1 Test mode

4.1.1 Panel



A symbol "■" in the key column indicates that the key should be pressed and held for 1 second or longer.

4.1.2 How to enter each Test Mode

Test Mode name	Operation
Production Test Mode	Press and hold [1] key and [3] key and reset.
Service Test Mode	In the STANDBY source, while pressing and holding [2] key, press [6] key for 7 seconds. (Starting to press [2] key and [6] key at the same time can not be entered into the mode)
Service Information Clear Mode	Press and hold [2] key and [5] key and reset.
DC Error Information Mode	Press and hold [3] key and [6] key and reset.
FW Update Special Mode	Press and hold [1] key and [SEARCH] key and reset.
DOP Test Mode	Press and hold [2] key and [4] key and reset.

*Transition to Test Mode shall be available during DC Error detection.

4.1.3 DOP Test Mode

After DOP Settings, Reset the set to confirm that the DOP settings are memorized into EEPROM.

4.1.4 How to release each Test Mode

- Reset
- Momentary voltage drop
- ACC OFF
- POWER OFF
- Panel Detach
- Source Change (for Diagnostic Data Mode only)

*The related test mode is activated by special ROM at all times, and the above conditions are not applicable.

4.2 Production Test Mode

Press and hold [1] key and [3] key and reset.

4.2.1 Default status immediately after the mode activation

It shall be same as normal RST start in other settings than the following.

Details		
Difference in action	Period to prohibit TEL/LINE MUTE immediately after activation (normally 10seconds)	1 second
	Mecha Initialize Action	Prohibited
	Write-in to E2PROM when detecting a DC error	Prohibited
	Demo Mode ON/OFF Setting Menu	Prohibited
	Power supply during ACC OFF (Back Up On)	MUTE terminal turns OFF after 2 seconds
	Source change interval timer	0 seconds
	BEEP sound	Beep with short-pressing in any functions
	When detected the 0 bit mute	Mute off
Various setting value	Volume	33
	BASS BOOST/LOUDNESS	OFF
	EQ	NATURAL
	Fader/Balance	Center
	Sound Reconstruction Set	OFF
	Volume Offset	0
	DEMO Mode Setting	OFF
	AUX Setting	ON

4.2.2 Mode structure

Some Test Modes change according to the current source.

The following table shows the current source in Set and the related test mode status.

Model source	Test mode
POWER OFF	-
Standby	STANDBY Test Mode
TUNER	TUNER Test Mode
CD	CD Test Mode
USB	USB Test Mode
AUX	-

4.2.3 Mode content

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

Display content	Details
<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	<p>The display is released when another operation is executed.</p> <p>Product should not be able to power on if sub clock is not functioning.</p>

4.2.4 STANDBY Test Mode Specification

Operation	Display content		Details
1 (Toggle)	Syscom version display	<div> <div></div> <div></div> <div></div> <div></div> <div>S</div> <div>Y</div> <div>S</div> <div>*</div> <div>*</div> <div>-</div> <div>*</div> <div>*</div> <div>*</div> </div>	Syscom version
	All lights ON	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	All lights ON (Switch with other display)
2 (Toggle)	Serial No. display	<div> <div>S</div> <div>N</div> <div></div> <div></div> <div></div> <div></div> <div>0</div> <div>0</div> <div>0</div> <div>0</div> <div>0</div> <div>0</div> <div>0</div> </div>	<p>Serial No. display (8-digit)</p> <p>*Display as it is in hex</p> <p>@@@@@@@@: EEPROM Read error</p>
	All lights ON	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	All lights ON (Switch with other display)
3 (Toggle)	All lights ON/OFF	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	All lights ON/OFF with toggle

Operation	Display content		Details
4 (Toggle)	Information display iPod verification IC mount status display	<div> <div>i P o d</div> <div>i P o d</div> <div>i P o d</div> <div>i P o d</div> </div>	iPod verification IC mount status display Blank: Verifying OK: Verification IC mounted NG: Verification IC not mounted **: Non-iPod support model In addition, upon enter to this mode, P-CON is turned ON. When a judgment result is OK, P-CON is turned off. Upon exit, P-CON still remain OFF. When a judgment result is NG, P-CON is kept ON condition. Upon exit, P-CON still remain ON.
	All lights ON	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	All lights ON (Switch to other display)
5 (Toggle)	Preout switch	<div> <div>S W P R E</div> <div>S W P R E</div> </div>	Switch Preout with toggle
6 (Toggle)	All lights ON/OFF	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	All lights ON/OFF with toggle
SRC transition	Mode release	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	Return to Normal mode
RETURN (Toggle)	All lights ON/OFF	<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	All lights ON/OFF with toggle

4.2.5 Tuner Test Mode Specification

The following display shall be indicated according to the TUNER status.

Status	Display content	Details
TUNER IC Normal Error	<div> <div>T U N</div> <div>C O N</div> <div>N G</div> </div>	Communication to TUNER IC not available (indicated unless the mode is in Clock Display Mode).
RDS/RBDS Specified data reception	<div> <div>R D S</div> <div>T E S T</div> </div>	Turn OFF P-CON forcibly if PS=RDS TEST is received. P-CON recovers with Power OFF/ON.

4.2.5.1 Operations

Operation	Display content		Details
ACCENT	S meter voltage judgment display	<div> <div>S - M T R</div> <div>S - M T R</div> </div>	S meter value xx: Current S meter value Determination result OK: Within S meter voltage spec (Range 20-25 in hex value) NG: Out of S meter voltage spec (Except range 20-25) - - : No LEVEL OFFSET adjustment In addition, upon enter to this mode, P-CON is turned ON. When a judgment result is OK, P-CON is turned off. Upon exit, P-CON still remain OFF. When a judgment result is NG, P-CON is kept ON condition. Upon exit, P-CON still remain ON. It is able to enter into this mode by remote control operation. Shift to TUNER setting mode after switching to 98.3MH.
BAND	BAND switch operation	<div> <div>F M 1 - 3</div> <div>A 9 7.9</div> </div>	Execute Band Switch as shown in the following table every time Band key is pressed in each type.

4.2.5.2 BAND switch list

Operation	Display content		Details
5	Special jump operation	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Jump to No.15 2.5V Output Level: set Volume value at 27 4V Output Level: set Volume value at 25 (for error operation FCT check of 20Hz 0dB DC protection)
6	Special jump operation	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Jump to No.9 if the other than track No.9 is playing. Jump to No.22 if the track No.9 is playing.

4.3 Service Test Mode

In the STANDBY source, while pressing and holding [2] key, press [6] key for 7 seconds.
(Starting to press [2] key and [6] key at the same time can not be entered into the mode)

4.3.1 Default status immediately after the mode activation

It shall be same as the normal activation.

4.3.2 Mode structure

Service Test Mode is enabled only STANDBY source.

4.3.3 Mode content

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

Display content	Details
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	The display is released when another operation is executed.

4.3.4 Common operation mode for only STANDBY sources

Operation	Display content		Details
	Stage Setting	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
3	Power ON duration display	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	00 - 50 are displayed in "xx". For less than 1 hour, the display is indicated per 10 minutes.
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	00001 - 10922 are displayed in "xxxxx". MAX 10922 (hours)
4 (*1)	Disc action duration display	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	0~50 are displayed in "xx". For less than 1 hour, the display is indicated per 10 minutes.
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	00001~10922 are displayed in "xxxxx". MAX 10922 (hours)
5	Disc Eject number of times display	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Display Disc Eject number of times. MAX 65535 (times)
■5	Disc Eject number of times clear	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Clear Disc Eject number of times by pressing for 2 seconds when it is displayed.

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

4.3.5 CD Error Information Display Mode

Operation	Display content		Details
DISP	CD error information display mode		Transit to CD error information display mode.
SEARCH (Toggle) Move between items with ◀▶	CD Mecha error log display	M E C H A E R # : x x	Mecha error history 1,2,3 (latest) #: History No. (1,2,3) xx: kind of errors, "-" when there is none 04: TOC read Error 99: Mecha Err
	CD Load error info display	L O A D E R # : x x	Load error switch 1,2 #: Switch No. (1,2) xx: numbers of errors, "-" when there is none
	CD Eject error info display	E J E C T E R # : x x	Eject error switch 1,2,3,4 #: Switch No. (1,2,3,4) xx: numbers of errors, "-" when there is none
	CD time code error count information display (count skip)	C N T L O S E : x x	CD time code error count information (count skip) mode display
		C D D A : x x	CD-DA error count numbers xx: numbers of errors and "-" when there is none
		C D R O M : x x	CD-ROM (compressed file) error count numbers xx: numbers of errors and "-" when there is none
	CD time code error count information display (no count update)	C N T S T A Y : x x	CD time code error count information (count not updated) mode display
		C D D A : x x	CD-DA error count numbers xx: numbers of errors and "-" when there is none
		C D R O M : x x	CD-ROM (compressed file) error count numbers xx: numbers of errors and "-" when there is none
■DISP	CD error information clear		CD error information all clear
DISP	Mode release		CD error information display mode release

4.4 Service Information Clear Mode

Press and hold [2] key and [5] key and reset.

4.4.1 Default status immediately after the mode activation

It shall be same as normal activation.

4.4.2 Mode structure

Service Info Clear Mode is enabled regardless of current source.

4.4.3 Mode content

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

Display	Details
I N I T I A L I Z E	Data Clear in Progress
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 "DATA CLR :NG" blinks with 250ms interval. CD is ejected out after the data is being cleared.

The following table shows the data that is cleared.

Information for data clearing	Details	Storage area
CD mech information	CD mech 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	CD EJECT number of times display	E2PROM
	Mandatory 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
Tuner information	Preset Frequency (FM/AM/LW/MW)	E2PROM
	Preset PI code	E2PROM
	Preset Frequency (SW)	E2PROM
	Mixed Preset Freq Band	E2PROM
	Mixed Preset Freq	E2PROM
	Mixed Preset PI Code	E2PROM
	Tuner Span	E2PROM
Pandora information	Pandora Preset	E2PROM
Tagging information	Token data memory index	E2PROM
Language information	English/ Russian Language settings	E2PROM

4.5 DC Error Information Mode

Press and hold [3] key and [6] key and reset.

4.5.1 Default status immediately after the mode activation

It shall be same as normal activation.

4.5.2 Mode structure

DC Error Info Mode is enabled regardless of current source.

4.5.3 Mode content

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

Display content	Details
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 not found)

4.5.4 Mode operation specification

Operation	Display content	Details
1	DC ERR1 display	D C 1 [] E R R [] [] [] [] [] []
		D C 1 [] O K [] [] [] [] [] []
■1	DC ERR1 clear	D C 1 [] O K [] [] [] [] [] []
2	DC ERR2 display	D C 2 [] 4 [] [] [] [] [] [] []
■2	DC ERR2 clear	D C 2 [] 0 [] [] [] [] [] [] []

4.6 DOP Test Mode

Press and hold [2] key and [4] key and reset.

4.6.1 Default status immediately after the mode activation

It shall be same as normal activation.

4.6.2 Mode structure

DOP Test Mode is enabled regardless of current source.

4.6.3 EEPROM DOP Read Error Display

In the case of an EEPROM read error or EEPROM DOP read error, the unit will behave accordingly.

- (1) No Power on animation
- (2) No Demo animation
- (3) Demo removed in setup menu
- (4) Color settings set to default
- (5) Serial number display replaced by "SN @@@@@"

4.6.4 Mode content

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

Display content	Details
D O P [] T E S T [] [] [] [] [] []	The display is released when another operation is executed.

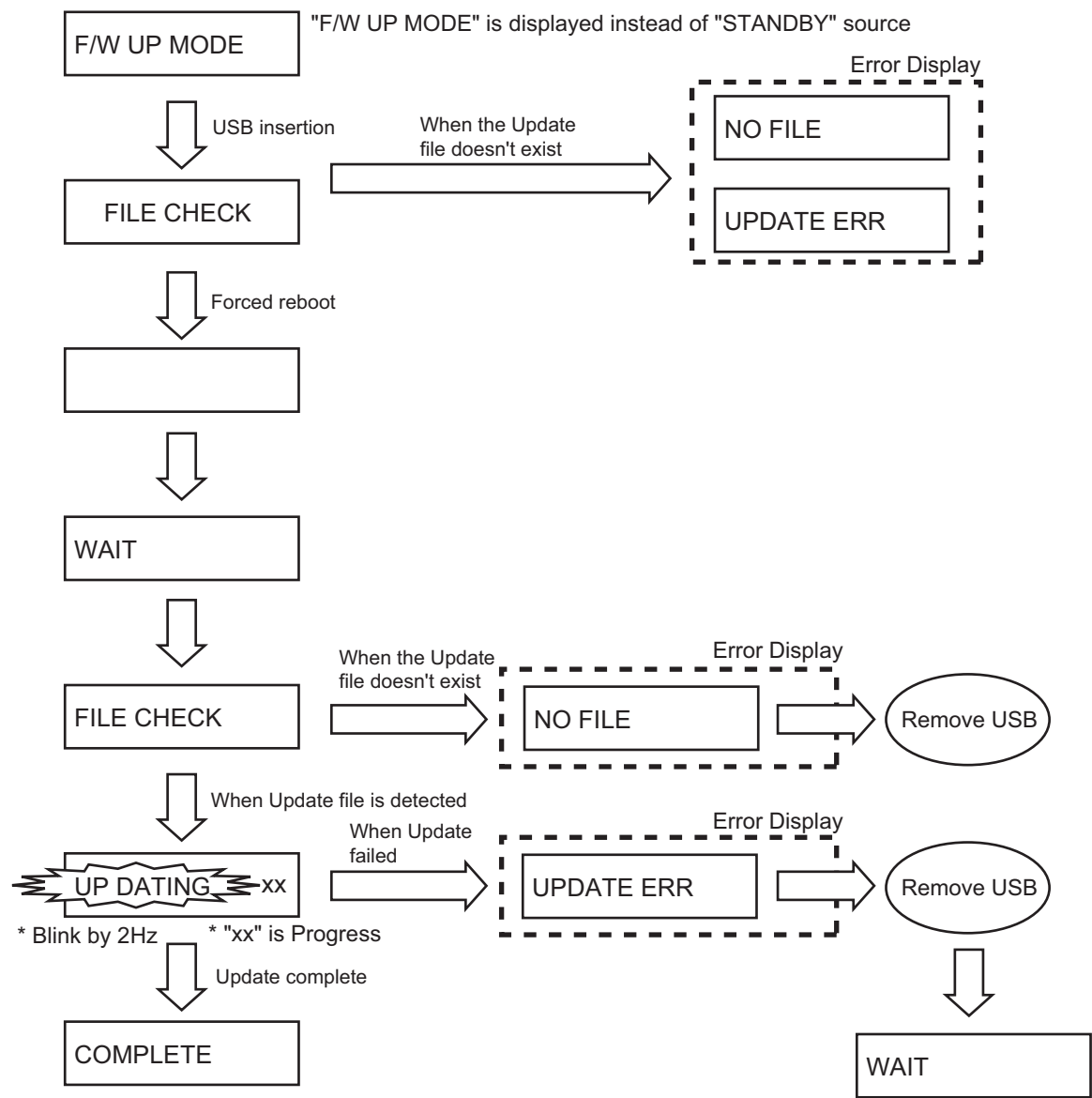
4.6.5 Mode operation specification

Operation: Select Preset 1 - 6 keys for DOP settings / Press RETURN key to default settings.

Operation	Display content	Details
1	DOP Setting 1	D O P [] S E T 1 [] [] [] [] [] []
2	Return to default settings	R E S T O R E D [] [] [] [] [] []

4.7 FW Update Special Mode

Press and hold [1] key and [SEARCH] key and reset.



4.8 FM/AM channel space switching

Procedure	Note
While Power OFF, pressing and holding [1] key and [5] key, and press [SRC] key to Power ON.	FM200kHz/AM10kHz ↔ FM50kHz/AM9kHz

SECTION 5
TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.



KENWOOD

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(No.WA088<Rev.001>)

Printed in Japan
VSE

KENWOOD

SCHEMATIC DIAGRAMS

CD RECEIVER

KDC-100Q
KDC-158U
KDC-161UR
KDC-261UR
KDC-U2159B
KDC-U259A
KDC-U259R

KDC-118U
KDC-161UB
KDC-161URY
KDC-MP158U
KDC-U2259R
KDC-U259B
KDC-U359B

KDC-120RY
KDC-161UG
KDC-261UB
KDC-U2059
KDC-U2359G
KDC-U259G
KDC-U359W

■ 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.

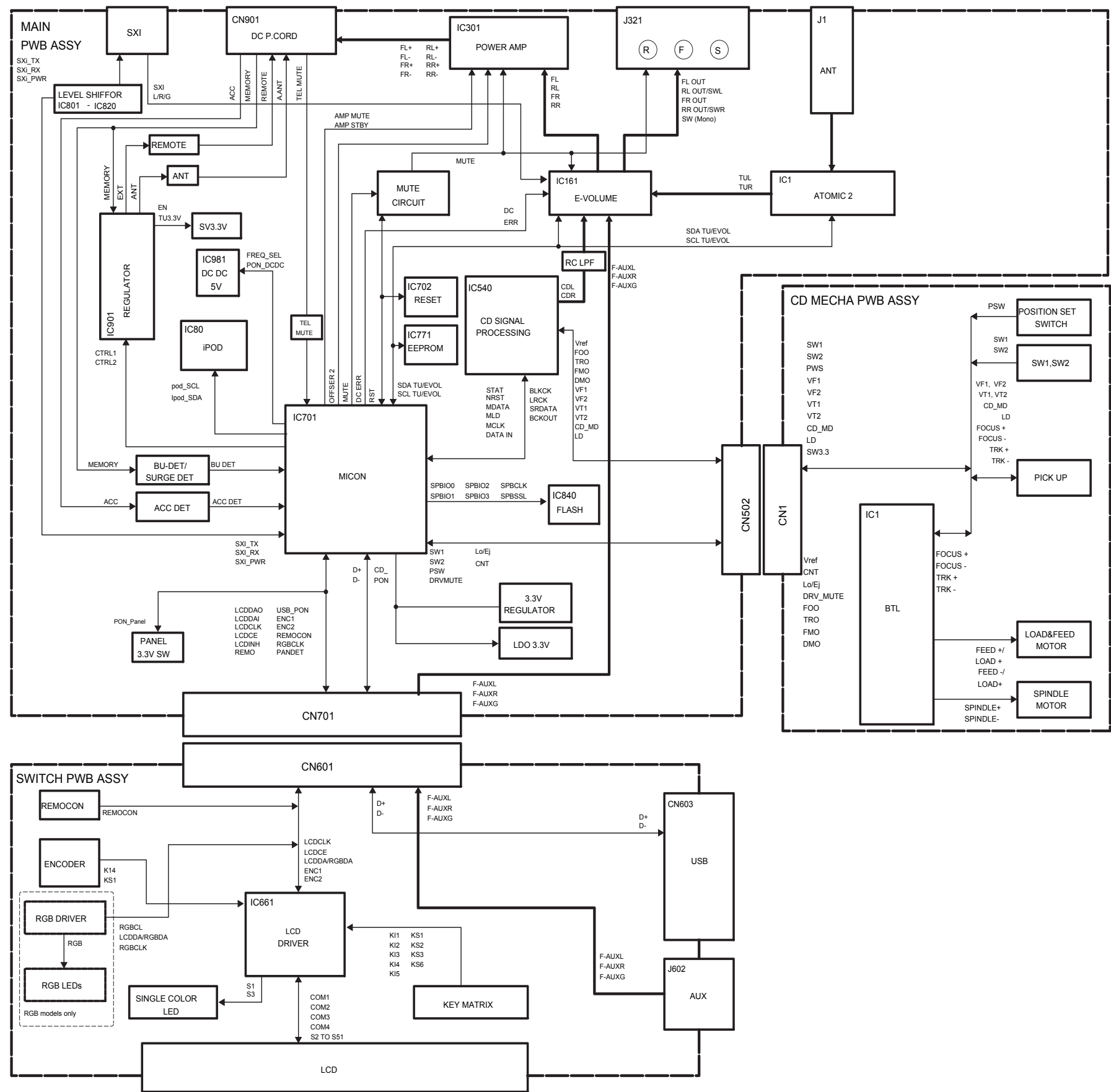
■ PRECAUTIONS ON PARTS LIST

- 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.
- 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.

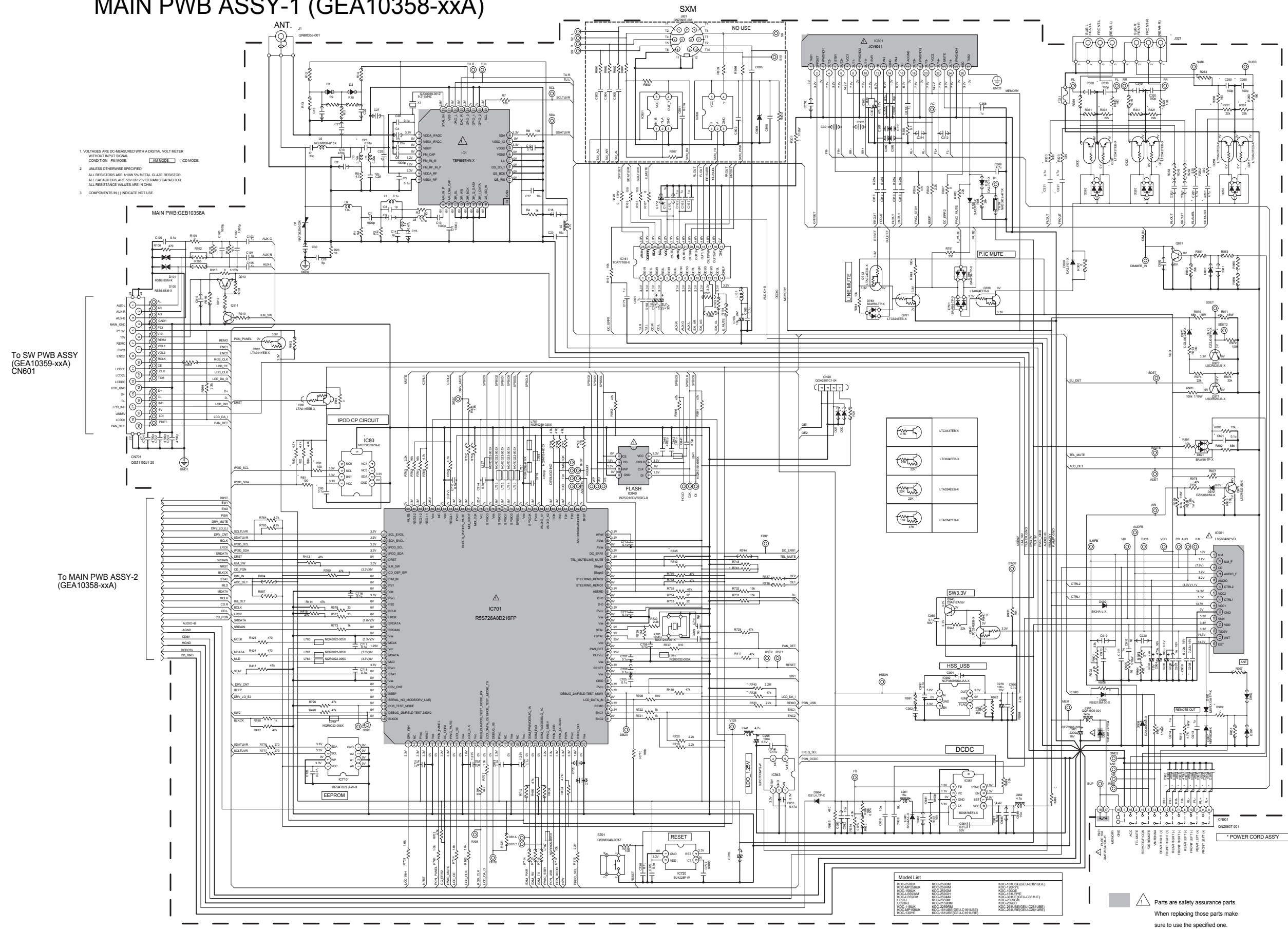
■ DEVIATION TOLERANCE RANGE

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 (GEA10358-xxA)



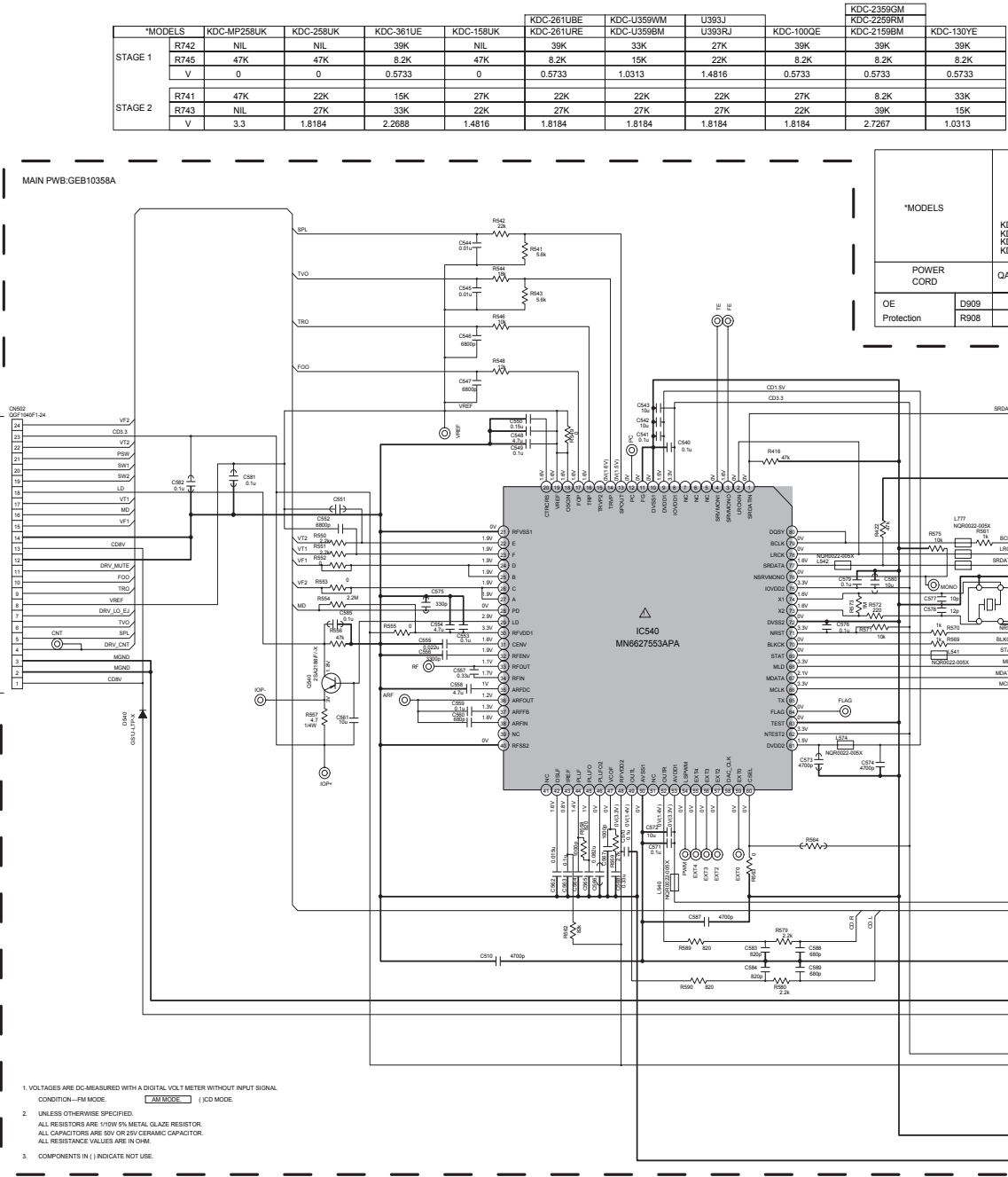
MAIN PWB ASSY-2 (GEA10358-xxA)

*MODELS		U393J U393RJ	KDC-MP158UK KDC-118UK KDC-158UK KDC-MP258UK KDC-258UK	KDC-161UBE KDC-161UGE KDC-120RYE KDC-100QE KDC-130YE	KDC-261UBE KDC-361UE KDC-261URE KDC-2159BM KDC-2259RM KDC-2359GM	KDC-U359WM KDC-U359BM KDC-259BM KDC-259GM KDC-259AM KDC-2059M	KDC-259BC KDC-259GH
ANT CONTROL	R907	O	X		X		X
	D852	O	X		X		X
	D851	O	X		X		X
	R851	O	X		X		X
	R909	X	X		O		X
	C909	O	X		O		X
	D906	X	O		O		O
	D907	X	O		O		O
	C913	X	O		O		O
	R911	X	O		O		O
TEL MUTE	C914	X	O		O		O
	C908	X	O		O		O
CD MECHA	D891	X			O		
	C891	X			O		
	R891	X			O		
	R893	X			O		
	X92-6820-01	X			O		
	X92-6820-03	O			X		

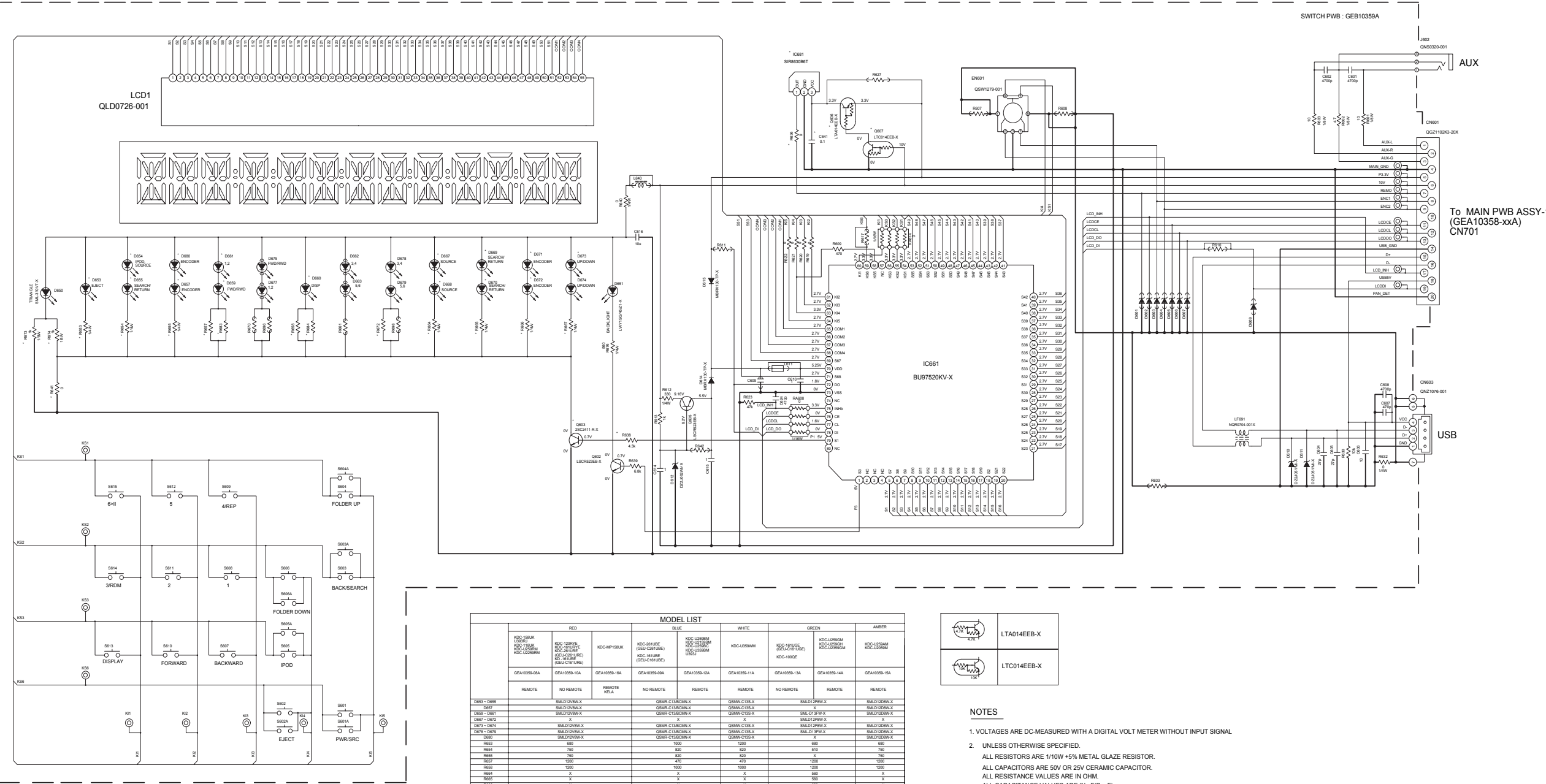
*MODELS		KDC-259BM KDC-259RM KDC-161UBE KDC-259GM KDC-161URE KDC-259GH KDC-161UGE KDC-259AM KDC-161URYE KDC-259BM	KDC-120RYE KDC-259BC	KDC-118UK	KDC-MP158UK
STAGE 1	R742	39K	33K	NIL	NIL
	R745	8.2K	15K	47K	47K
	V	0.5733	1.0313	0	0
STAGE 2	R741	NIL	NIL	NIL	39K
	R743	47K	47K	47K	8.2K
	V	0	0	0	0.5733

*MODELS		U393J U393RJ KDC-100QE	KDC-258UK KDC-361UE KDC-158UK KDC-261UBE KDC-259RM KDC-261URE KDC-118UK KDC-259GH KDC-161UBE KDC-161URE KDC-161URYE KDC-259RM KDC-2359GM	KDC-MP258UK KDC-U359WM KDC-U359BM KDC-MP158UK KDC-130YE KDC-120RYE KDC-259BM KDC-259GM KDC-259AM KDC-2059M KDC-2159BM KDC-2259RM KDC-2359GM
LINE OUT	R250	X	O	O
	R251	X	O	O
	R252	X	O	O
	R260	X	O	O
	R261	X	O	O
	R262	X	O	O
	C250	X	O	O
	C251	X	O	O
	C260	X	O	O
	C261	X	O	O
	Q250	X	O	O
	Q251	X	O	O
	R320	X	X	O
	R321	X	X	O
	R323	X	X	O
	R330	X	X	O
	R331	X	X	O
	R333	X	X	O
	C320	X	X	O
	C321	X	X	O
	C330	X	X	O
	C331	X	X	O
	Q321	X	X	O
	Q331	X	X	O
	J321	X	QNN0874-001	QNN0868-001

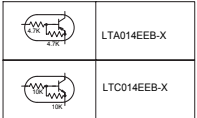
*MODELS		KDC-118UK KDC-MP158UK KDC-161UBE KDC-161URE KDC-130YE KDC-120RYE KDC-100QE KDC-161URYE KDC-259BM KDC-259GM KDC-259AM KDC-2059M KDC-U359WM KDC-U359BM KDC-2159BM KDC-2259RM KDC-2359GM KDC-259BC	KDC-258UK KDC-MP258UK KDC-361UE KDC-158UK KDC-261UBE KDC-259RM KDC-261URE KDC-118UK KDC-259GH KDC-161UBE KDC-161URE KDC-161URYE KDC-259BM KDC-259GM KDC-259AM KDC-2059M KDC-U359WM KDC-U359BM KDC-2159BM KDC-2259RM KDC-2359GM KDC-259BC
HORN NOISE	C360-C367	O	X
IPOD	R80	O	X
	R81	O	X
	R82	O	X
	R83	O	X
	R84	O	X
	C80	O	X
	IC80	O	X



SW PWB ASSY (GEA10359-xxA)



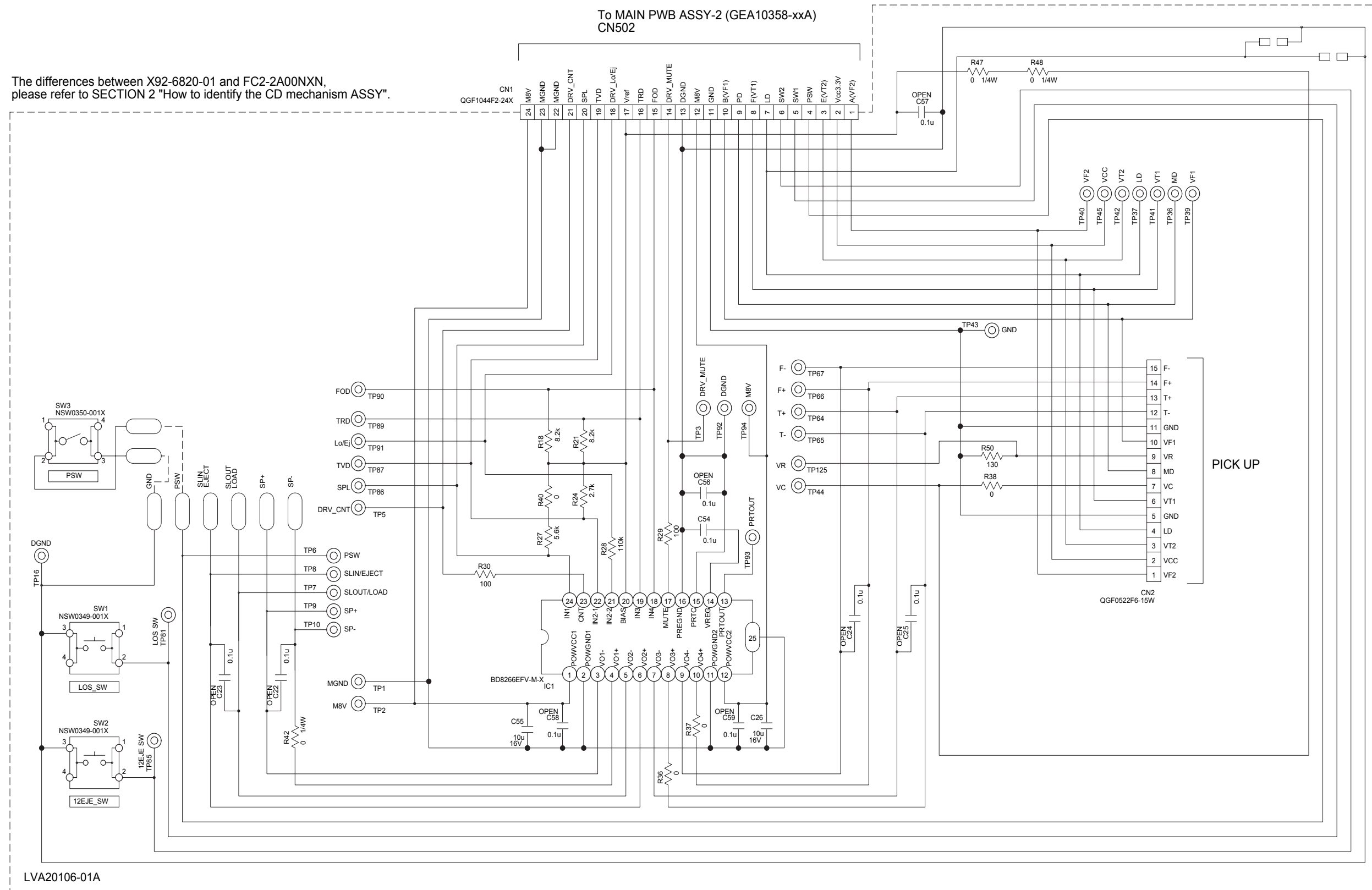
MODEL LIST									
RED		BLUE		WHITE		GREEN		AMBER	
KDC-10359-00A	KDC-10359-00A	KDC-10359-00A	KDC-10359-00A	KDC-10359-00A	KDC-10359-00A	KDC-10359-00A	KDC-10359-00A	KDC-10359-00A	KDC-10359-00A
GEA10359-00A	GEA10359-00A	GEA10359-00A	GEA10359-00A	GEA10359-00A	GEA10359-00A	GEA10359-00A	GEA10359-00A	GEA10359-00A	GEA10359-00A
REMOTE	NO REMOTE	REMOTE	NO REMOTE	REMOTE	NO REMOTE	REMOTE	NO REMOTE	REMOTE	NO REMOTE
DS01 - DS05	DS01 - DS05	DS01 - DS05	DS01 - DS05	DS01 - DS05	DS01 - DS05	DS01 - DS05	DS01 - DS05	DS01 - DS05	DS01 - DS05
DS06 - DS08	DS06 - DS08	DS06 - DS08	DS06 - DS08	DS06 - DS08	DS06 - DS08	DS06 - DS08	DS06 - DS08	DS06 - DS08	DS06 - DS08
DS09 - DS10	DS09 - DS10	DS09 - DS10	DS09 - DS10	DS09 - DS10	DS09 - DS10	DS09 - DS10	DS09 - DS10	DS09 - DS10	DS09 - DS10
DS11 - DS12	DS11 - DS12	DS11 - DS12	DS11 - DS12	DS11 - DS12	DS11 - DS12	DS11 - DS12	DS11 - DS12	DS11 - DS12	DS11 - DS12
DS13 - DS14	DS13 - DS14	DS13 - DS14	DS13 - DS14	DS13 - DS14	DS13 - DS14	DS13 - DS14	DS13 - DS14	DS13 - DS14	DS13 - DS14
DS15 - DS16	DS15 - DS16	DS15 - DS16	DS15 - DS16	DS15 - DS16	DS15 - DS16	DS15 - DS16	DS15 - DS16	DS15 - DS16	DS15 - DS16
DS17 - DS18	DS17 - DS18	DS17 - DS18	DS17 - DS18	DS17 - DS18	DS17 - DS18	DS17 - DS18	DS17 - DS18	DS17 - DS18	DS17 - DS18
DS19 - DS20	DS19 - DS20	DS19 - DS20	DS19 - DS20	DS19 - DS20	DS19 - DS20	DS19 - DS20	DS19 - DS20	DS19 - DS20	DS19 - DS20
DS21 - DS22	DS21 - DS22	DS21 - DS22	DS21 - DS22	DS21 - DS22	DS21 - DS22	DS21 - DS22	DS21 - DS22	DS21 - DS22	DS21 - DS22
DS23 - DS24	DS23 - DS24	DS23 - DS24	DS23 - DS24	DS23 - DS24	DS23 - DS24	DS23 - DS24	DS23 - DS24	DS23 - DS24	DS23 - DS24
DS25 - DS26	DS25 - DS26	DS25 - DS26	DS25 - DS26	DS25 - DS26	DS25 - DS26	DS25 - DS26	DS25 - DS26	DS25 - DS26	DS25 - DS26
DS27 - DS28	DS27 - DS28	DS27 - DS28	DS27 - DS28	DS27 - DS28	DS27 - DS28	DS27 - DS28	DS27 - DS28	DS27 - DS28	DS27 - DS28
DS29 - DS30	DS29 - DS30	DS29 - DS30	DS29 - DS30	DS29 - DS30	DS29 - DS30	DS29 - DS30	DS29 - DS30	DS29 - DS30	DS29 - DS30
DS31 - DS32	DS31 - DS32	DS31 - DS32	DS31 - DS32	DS31 - DS32	DS31 - DS32	DS31 - DS32	DS31 - DS32	DS31 - DS32	DS31 - DS32
DS33 - DS34	DS33 - DS34	DS33 - DS34	DS33 - DS34	DS33 - DS34	DS33 - DS34	DS33 - DS34	DS33 - DS34	DS33 - DS34	DS33 - DS34
DS35 - DS36	DS35 - DS36	DS35 - DS36	DS35 - DS36	DS35 - DS36	DS35 - DS36	DS35 - DS36	DS35 - DS36	DS35 - DS36	DS35 - DS36
DS37 - DS38	DS37 - DS38	DS37 - DS38	DS37 - DS38	DS37 - DS38	DS37 - DS38	DS37 - DS38	DS37 - DS38	DS37 - DS38	DS37 - DS38
DS39 - DS40	DS39 - DS40	DS39 - DS40	DS39 - DS40	DS39 - DS40	DS39 - DS40	DS39 - DS40	DS39 - DS40	DS39 - DS40	DS39 - DS40
DS41 - DS42	DS41 - DS42	DS41 - DS42	DS41 - DS42	DS41 - DS42	DS41 - DS42	DS41 - DS42	DS41 - DS42	DS41 - DS42	DS41 - DS42
DS43 - DS44	DS43 - DS44	DS43 - DS44	DS43 - DS44	DS43 - DS44	DS43 - DS44	DS43 - DS44	DS43 - DS44	DS43 - DS44	DS43 - DS44
DS45 - DS46	DS45 - DS46	DS45 - DS46	DS45 - DS46	DS45 - DS46	DS45 - DS46	DS45 - DS46	DS45 - DS46	DS45 - DS46	DS45 - DS46
DS47 - DS48	DS47 - DS48	DS47 - DS48	DS47 - DS48	DS47 - DS48	DS47 - DS48	DS47 - DS48	DS47 - DS48	DS47 - DS48	DS47 - DS48
DS49 - DS50	DS49 - DS50	DS49 - DS50	DS49 - DS50	DS49 - DS50	DS49 - DS50	DS49 - DS50	DS49 - DS50	DS49 - DS50	DS49 - DS50
DS51 - DS52	DS51 - DS52	DS51 - DS52	DS51 - DS52	DS51 - DS52	DS51 - DS52	DS51 - DS52	DS51 - DS52	DS51 - DS52	DS51 - DS52
DS53 - DS54	DS53 - DS54	DS53 - DS54	DS53 - DS54	DS53 - DS54	DS53 - DS54	DS53 - DS54	DS53 - DS54	DS53 - DS54	DS53 - DS54
DS55 - DS56	DS55 - DS56	DS55 - DS56	DS55 - DS56	DS55 - DS56	DS55 - DS56	DS55 - DS56	DS55 - DS56	DS55 - DS56	DS55 - DS56
DS57 - DS58	DS57 - DS58	DS57 - DS58	DS57 - DS58	DS57 - DS58	DS57 - DS58	DS57 - DS58	DS57 - DS58	DS57 - DS58	DS57 - DS58
DS59 - DS60	DS59 - DS60	DS59 - DS60	DS59 - DS60	DS59 - DS60	DS59 - DS60	DS59 - DS60	DS59 - DS60	DS59 - DS60	DS59 - DS60
DS61 - DS62	DS61 - DS62	DS61 - DS62	DS61 - DS62	DS61 - DS62	DS61 - DS62	DS61 - DS62	DS61 - DS62	DS61 - DS62	DS61 - DS62
DS63 - DS64	DS63 - DS64	DS63 - DS64	DS63 - DS64	DS63 - DS64	DS63 - DS64	DS63 - DS64	DS63 - DS64	DS63 - DS64	DS63 - DS64
DS65 - DS66	DS65 - DS66	DS65 - DS66	DS65 - DS66	DS65 - DS66	DS65 - DS66	DS65 - DS66	DS65 - DS66	DS65 - DS66	DS65 - DS66
DS67 - DS68	DS67 - DS68	DS67 - DS68	DS67 - DS68	DS67 - DS68	DS67 - DS68	DS67 - DS68	DS67 - DS68	DS67 - DS68	DS67 - DS68
DS69 - DS70	DS69 - DS70	DS69 - DS70	DS69 - DS70	DS69 - DS70	DS69 - DS70	DS69 - DS70	DS69 - DS70	DS69 - DS70	DS69 - DS70
DS71 - DS72	DS71 - DS72	DS71 - DS72	DS71 - DS72	DS71 - DS72	DS71 - DS72	DS71 - DS72	DS71 - DS72	DS71 - DS72	DS71 - DS72
DS73 - DS74	DS73 - DS74	DS73 - DS74	DS73 - DS74	DS73 - DS74	DS73 - DS74	DS73 - DS74	DS73 - DS74	DS73 - DS74	DS73 - DS74
DS75 - DS76	DS75 - DS76	DS75 - DS76	DS75 - DS76	DS75 - DS76	DS75 - DS76	DS75 - DS76	DS75 - DS76	DS75 - DS76	DS75 - DS76
DS77 - DS78	DS77 - DS78	DS77 - DS78	DS77 - DS78	DS77 - DS78	DS77 - DS78	DS77 - DS78	DS77 - DS78	DS77 - DS78	DS77 - DS78
DS79 - DS80	DS79 - DS80	DS79 - DS80	DS79 - DS80	DS79 - DS80	DS79 - DS80	DS79 - DS80	DS79 - DS80	DS79 - DS80	DS79 - DS80
DS81 - DS82	DS81 - DS82	DS81 - DS82	DS81 - DS82	DS81 - DS82	DS81 - DS82	DS81 - DS82	DS81 - DS82	DS81 - DS82	DS81 - DS82
DS83 - DS84	DS83 - DS84	DS83 - DS84	DS83 - DS84	DS83 - DS84	DS83 - DS84	DS83 - DS84	DS83 - DS84	DS83 - DS84	DS83 - DS84
DS85 - DS86	DS85 - DS86	DS85 - DS86	DS85 - DS86	DS85 - DS86	DS85 - DS86	DS85 - DS86	DS85 - DS86	DS85 - DS86	DS85 - DS86
DS87 - DS88	DS87 - DS88	DS87 - DS88	DS87 - DS88	DS87 - DS88	DS87 - DS88	DS87 - DS88	DS87 - DS88	DS87 - DS88	DS87 - DS88
DS89 - DS90	DS89 - DS90	DS89 - DS90	DS89 - DS90	DS89 - DS90	DS89 - DS90	DS89 - DS90	DS89 - DS90	DS89 - DS90	DS89 - DS90
DS91 - DS92	DS91 - DS92	DS91 - DS92	DS91 - DS92	DS91 - DS92	DS91 - DS92	DS91 - DS92	DS91 - DS92	DS91 - DS92	DS91 - DS92
DS93 - DS94	DS93 - DS94	DS93 - DS94	DS93 - DS94	DS93 - DS94	DS93 - DS94	DS93 - DS94	DS93 - DS94	DS93 - DS94	DS93 - DS94
DS95 - DS96	DS95 - DS96	DS95 - DS96	DS95 - DS96	DS95 - DS96	DS95 - DS96	DS95 - DS96	DS95 - DS96	DS95 - DS96	DS95 - DS96
DS97 - DS98	DS97 - DS98	DS97 - DS98	DS97 - DS98	DS97 - DS98	DS97 - DS98	DS97 - DS98	DS97 - DS98	DS97 - DS98	DS97 - DS98
DS99 - DS100	DS99 - DS100	DS99 - DS100	DS99 - DS100	DS99 - DS100	DS99 - DS100	DS99 - DS100	DS99 - DS100	DS99 - DS100	DS99 - DS100



NOTES

- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL
- UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/10W +5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM.
ALL CAPACITANCE VALUES ARE IN uF(P=pF)
ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
T --- TANTALUM CAPACITOR.
- COMPONENTS IN () INDICATE NOT USE.

CD MECHA PWB ASSY (LVA20106-01A): FC2-2A00NXN

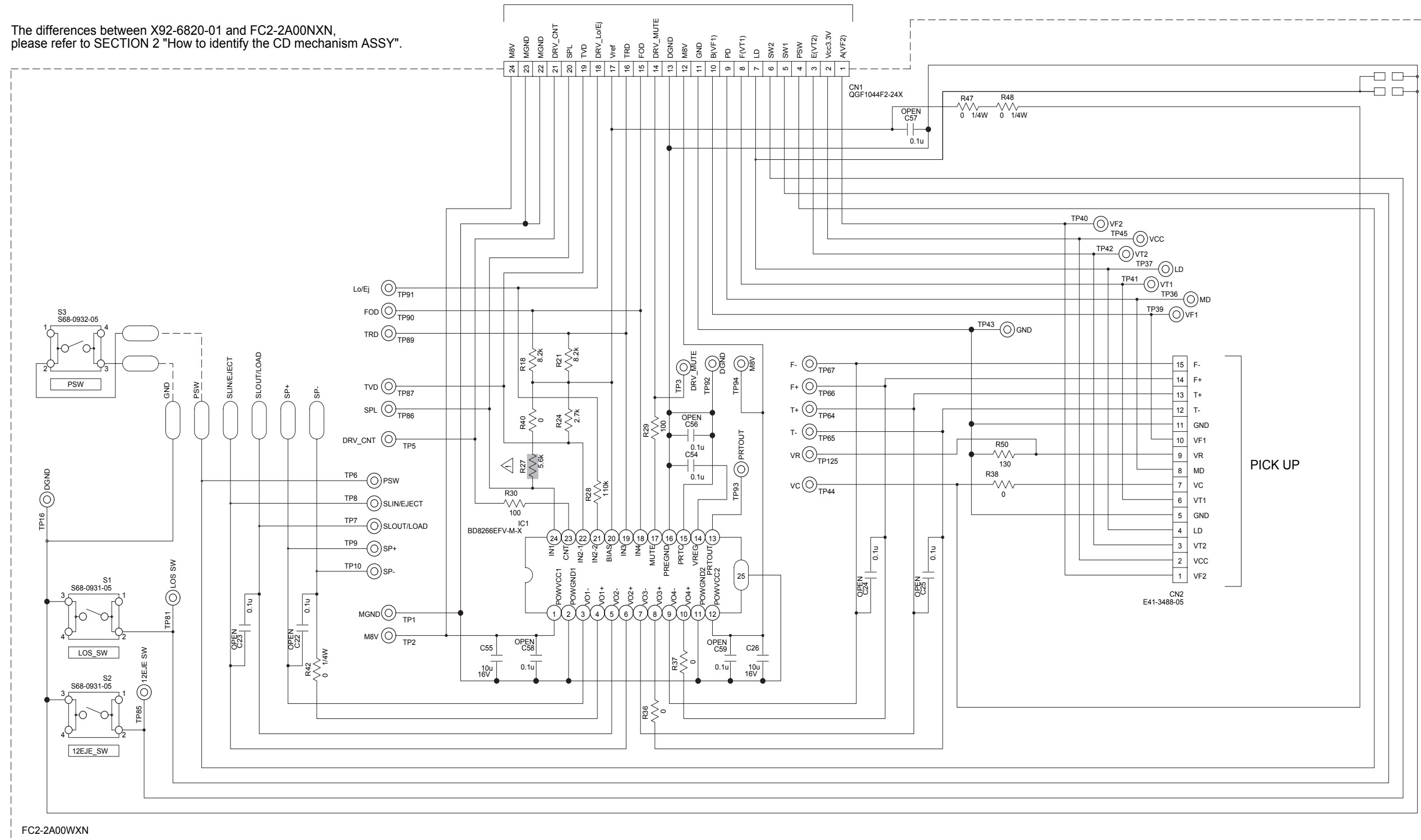


Power rating of all unspecified resistors is 1/10w.
Voltage rating of all unspecified capacitors is 50V.



CD MECHA PWB ASSY (X32-6680-00): X92-6820-01

To MAIN PWB ASSY-2 (GEA10358-xxA)
CN502

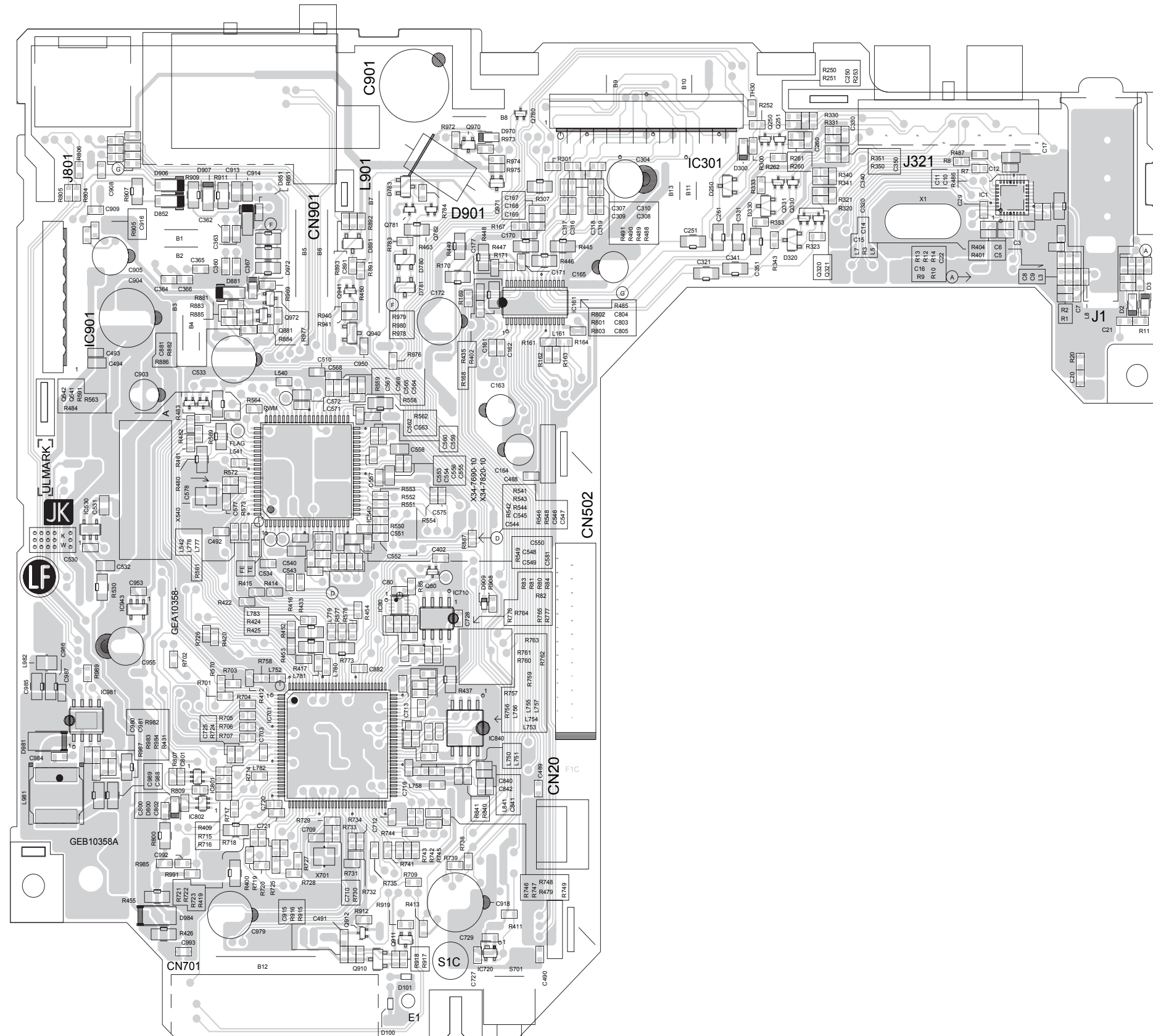
The differences between X92-6820-01 and FC2-2A00NXN, please refer to SECTION 2 "How to identify the CD mechanism ASSY".



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

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

MAIN PWB ASSY GEA10358-xxA (GEB10358-001C)

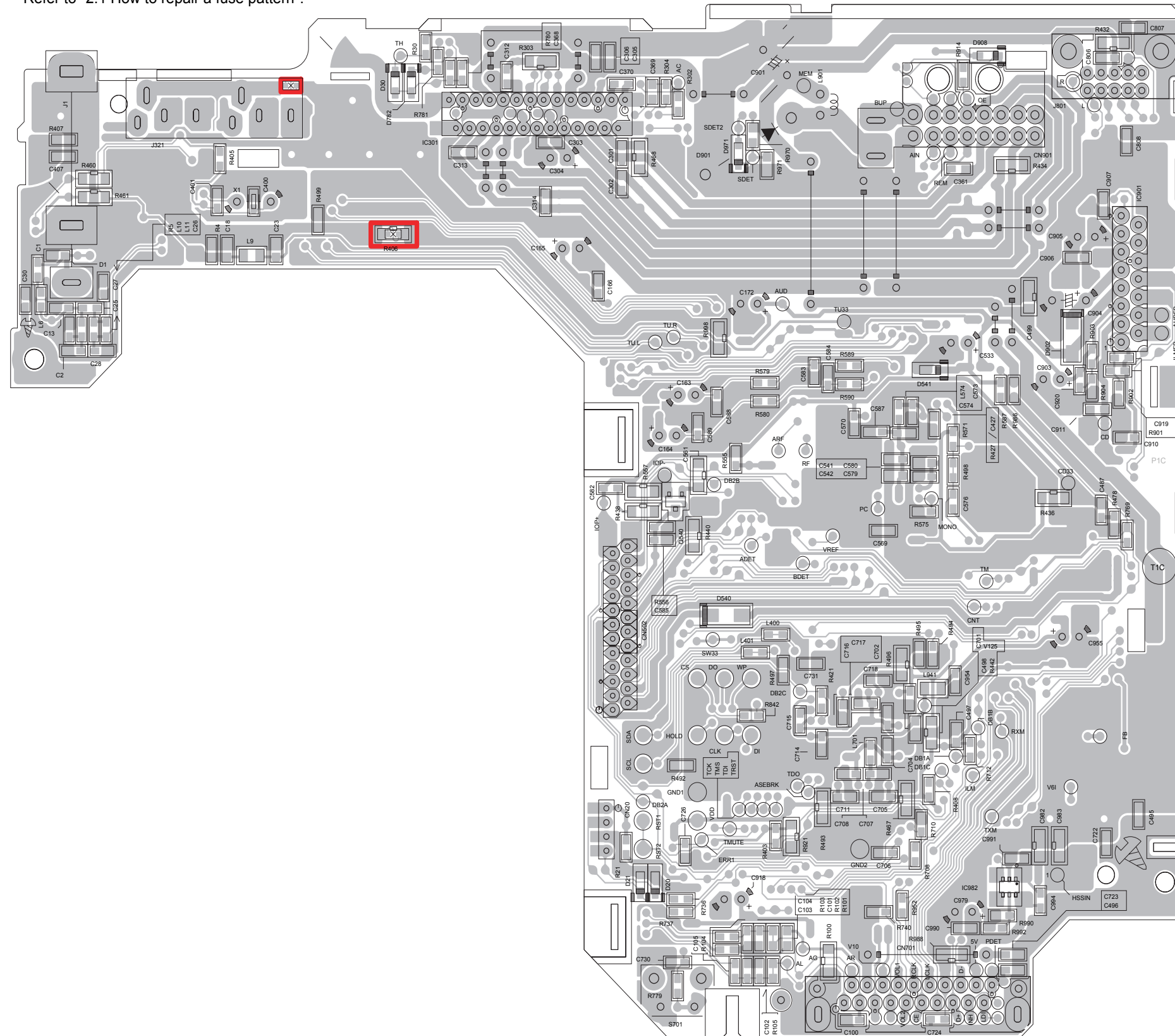


MAIN PWB ASSY GEA10358-xxA (GEB10358-001C)

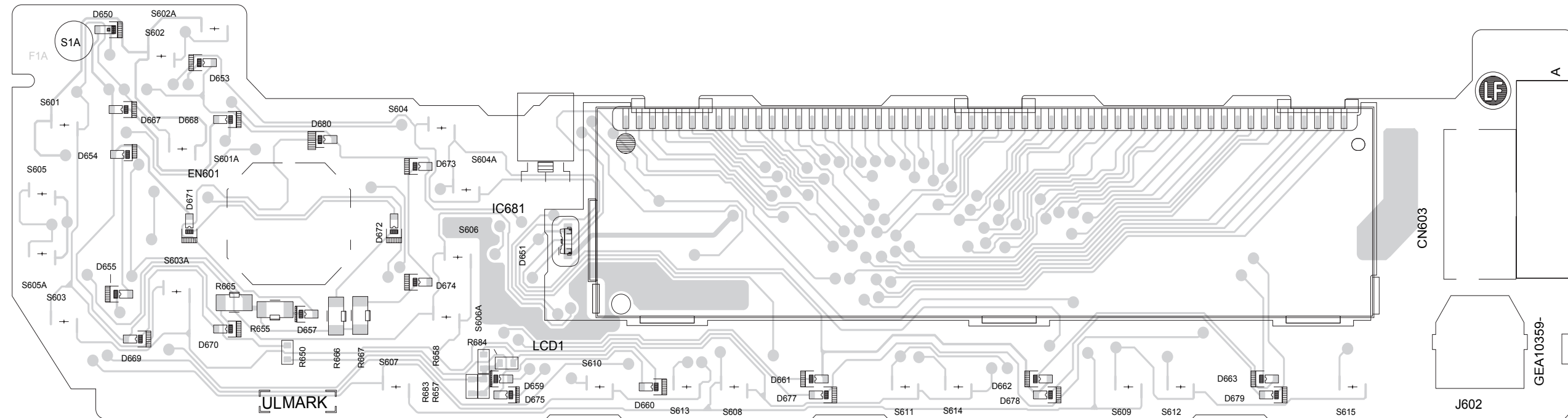


How to repair a fuse pattern.

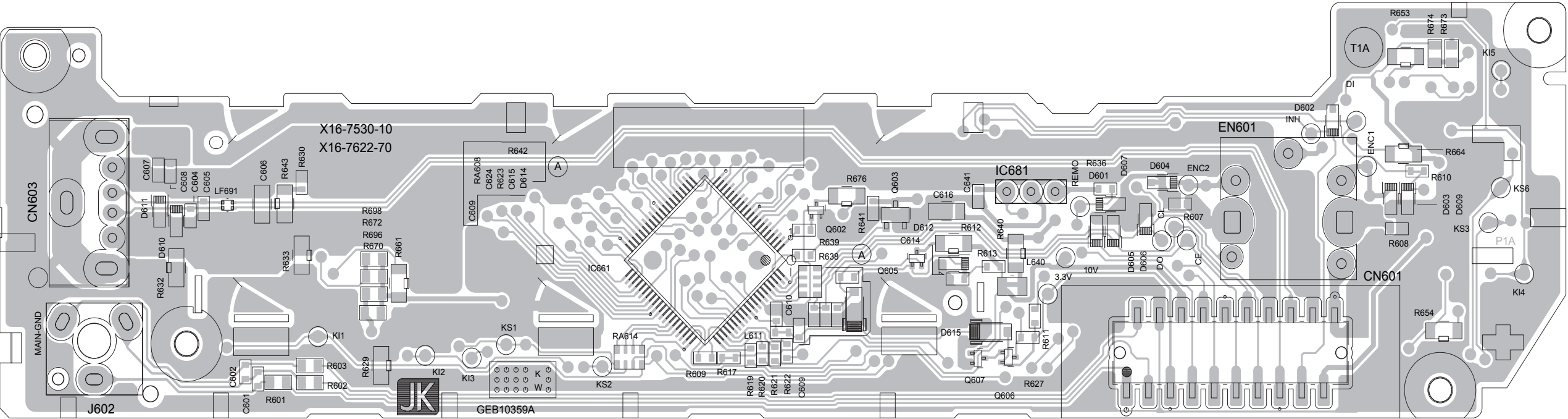
Refer to "2.1 How to repair a fuse pattern".



SW PWB ASSY GEA10359-xxA (GEB10359-001A)

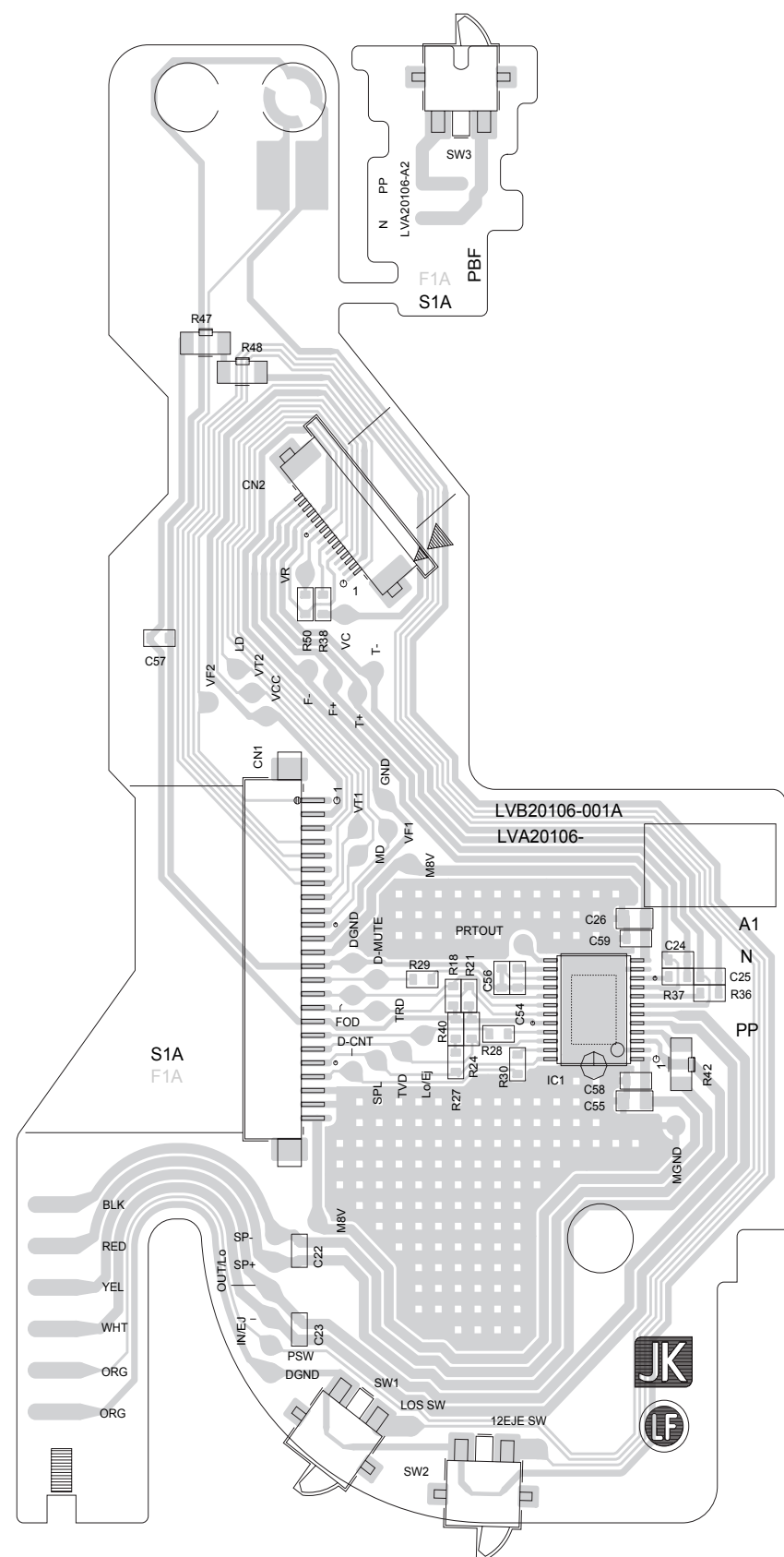


SW PWB ASSY GEA10359-xxA (GEB10359-001A)



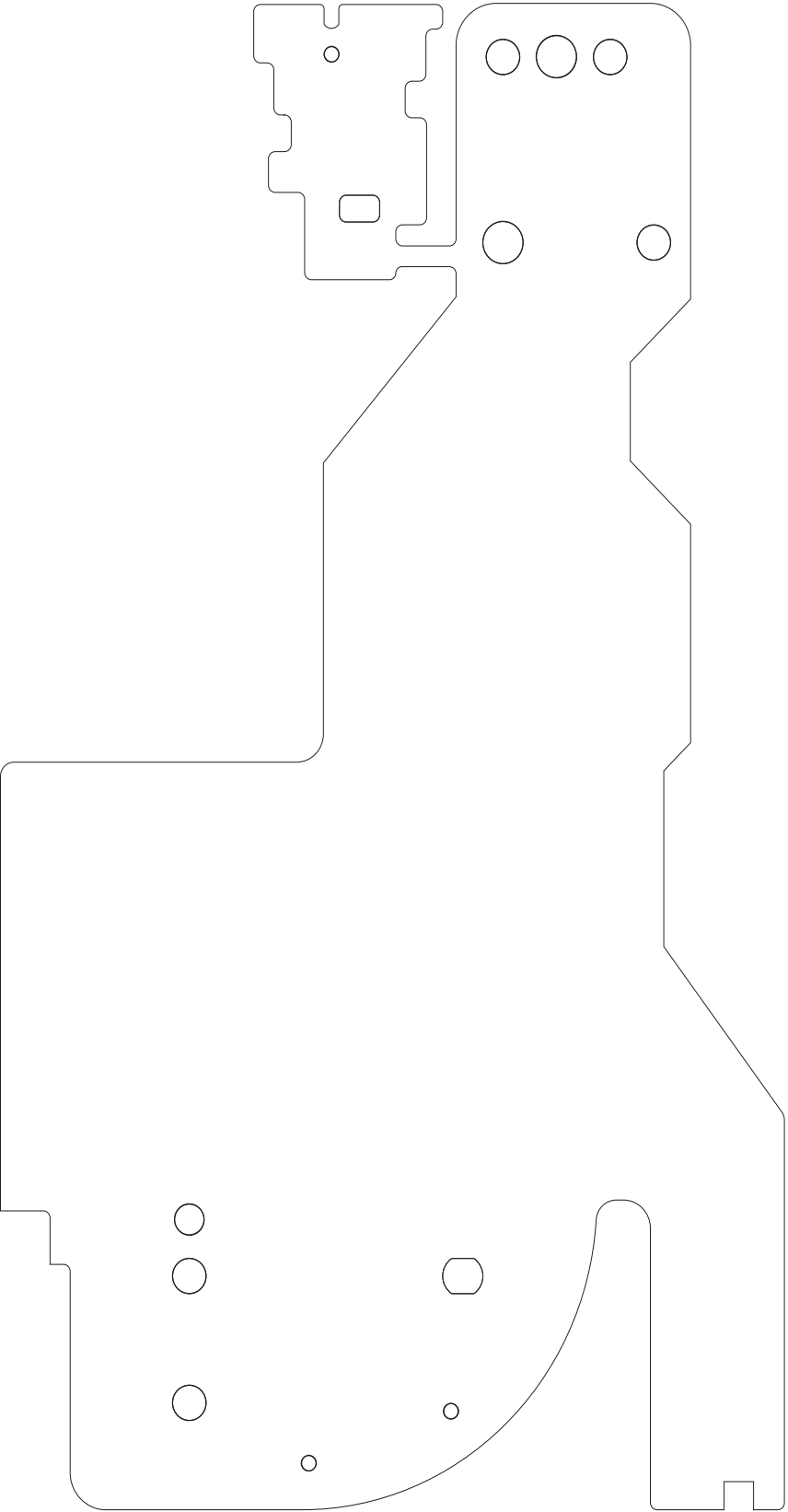
CD MECHA PWB ASSY LVA20106-01A (LVB20106-001B): FC2-2A00NXN

The differences between X92-6820-01 and FC2-2A00NXN,
please refer to SECTION 2 "How to identify the CD mechanism ASSY".



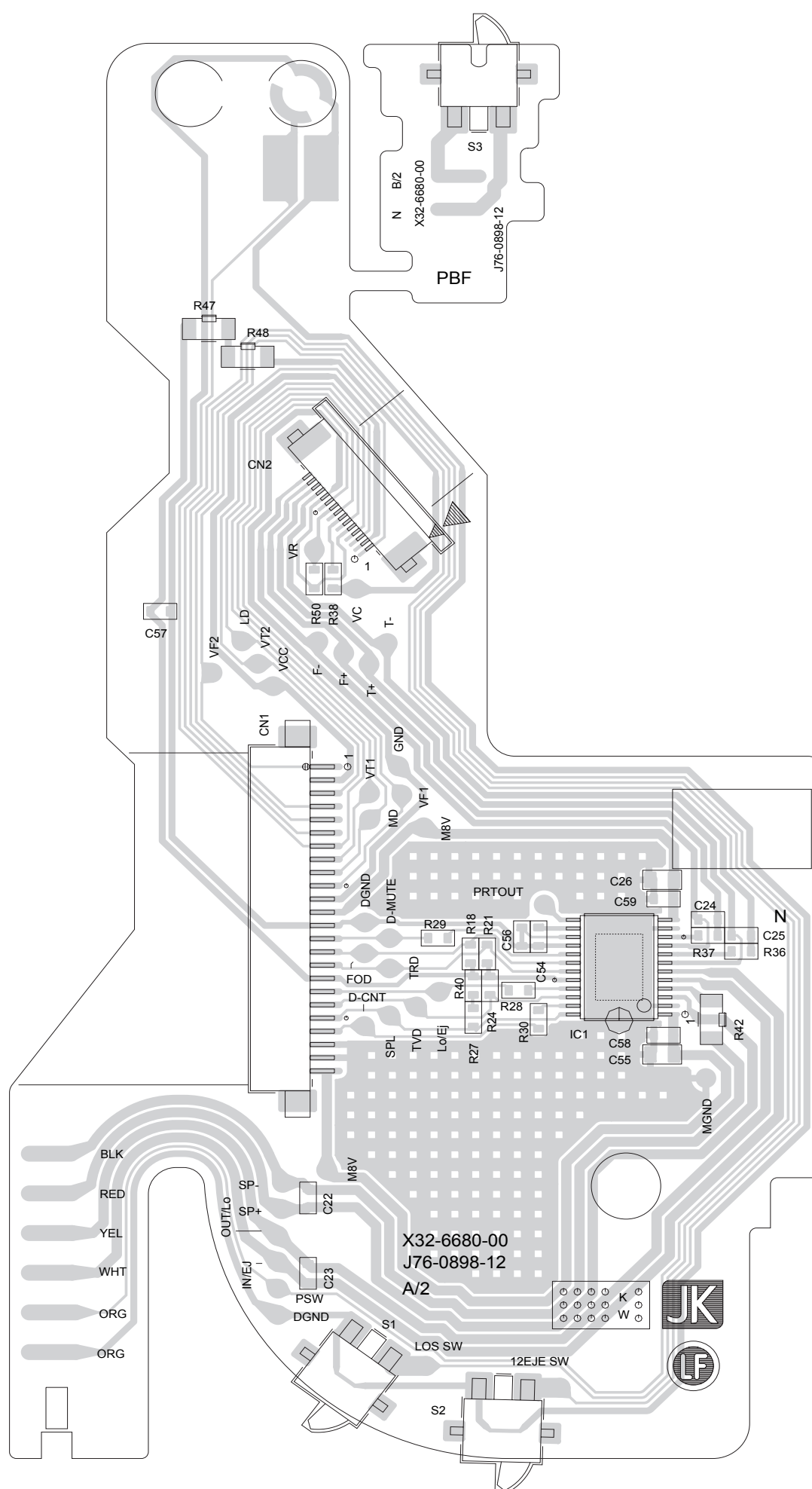
CD MECHA PWB ASSY LVA20106-01A (LVB20106-001B): FC2-2A00NXN

The differences between X92-6820-01 and FC2-2A00NXN,
please refer to SECTION 2 "How to identify the CD mechanism ASSY".



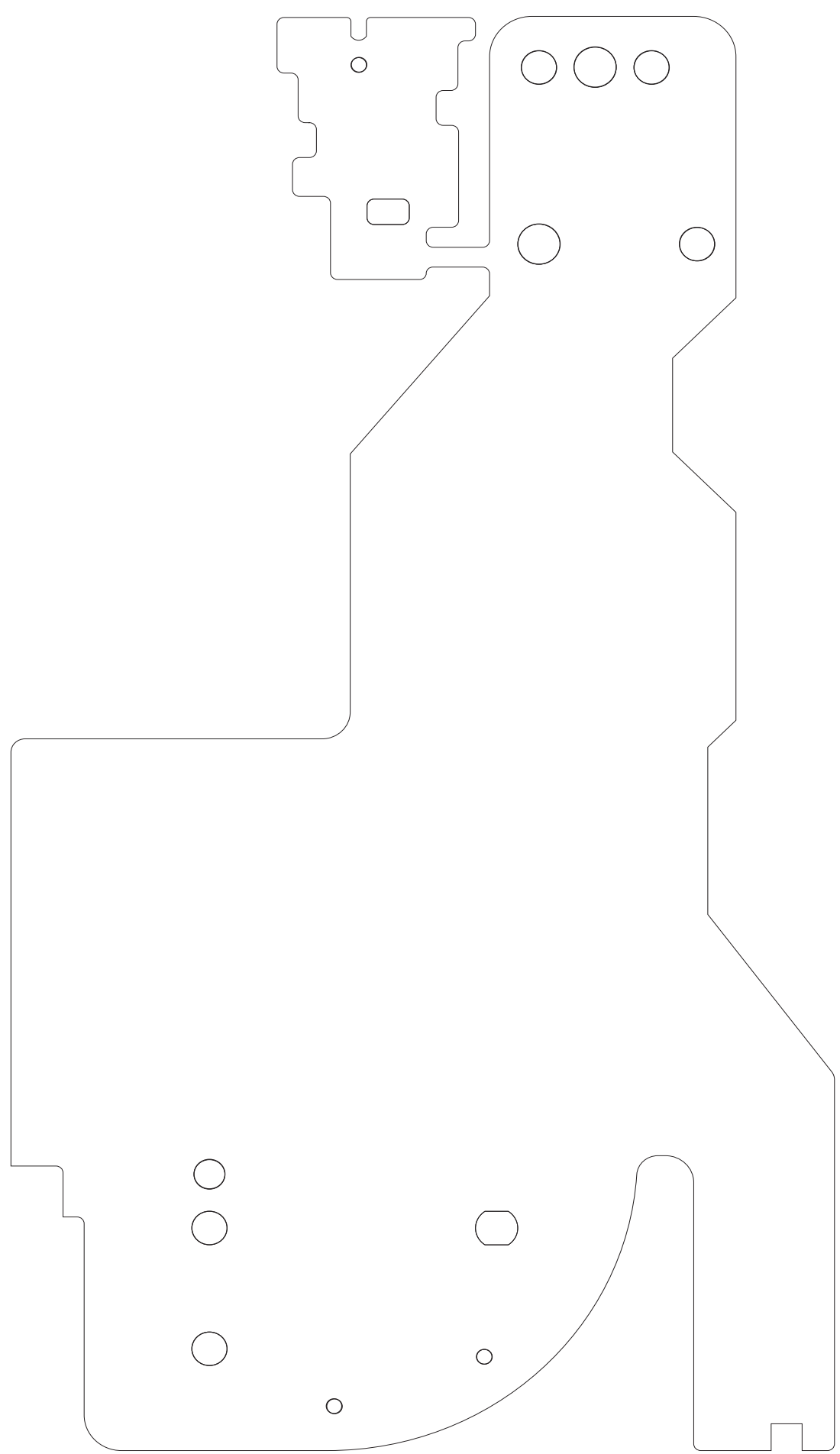
CD MECHA PWB ASSY X32-6680-00 (J76-0898-12): X92-6820-01

The differences between X92-6820-01 and FC2-2A00NXN, please refer to SECTION 2 "How to identify the CD mechanism ASSY".



CD MECHA PWB ASSY X32-6680-00 (J76-0898-12): X92-6820-01

The differences between X92-6820-01 and FC2-2A00NXN,
please refer to SECTION 2 "How to identify the CD mechanism ASSY".



KENWOOD

PARTS LIST

CD RECEIVER

KDC-100Q	KDC-118U	KDC-120RY
KDC-158U	KDC-161UB	KDC-161UG
KDC-161UR	KDC-161URY	KDC-261UB
KDC-261UR	KDC-MP158U	KDC-U2059
KDC-U2159B	KDC-U2259R	KDC-U2359G
KDC-U259A	KDC-U259B	KDC-U259G
KDC-U259R	KDC-U359B	KDC-U359W

■ 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

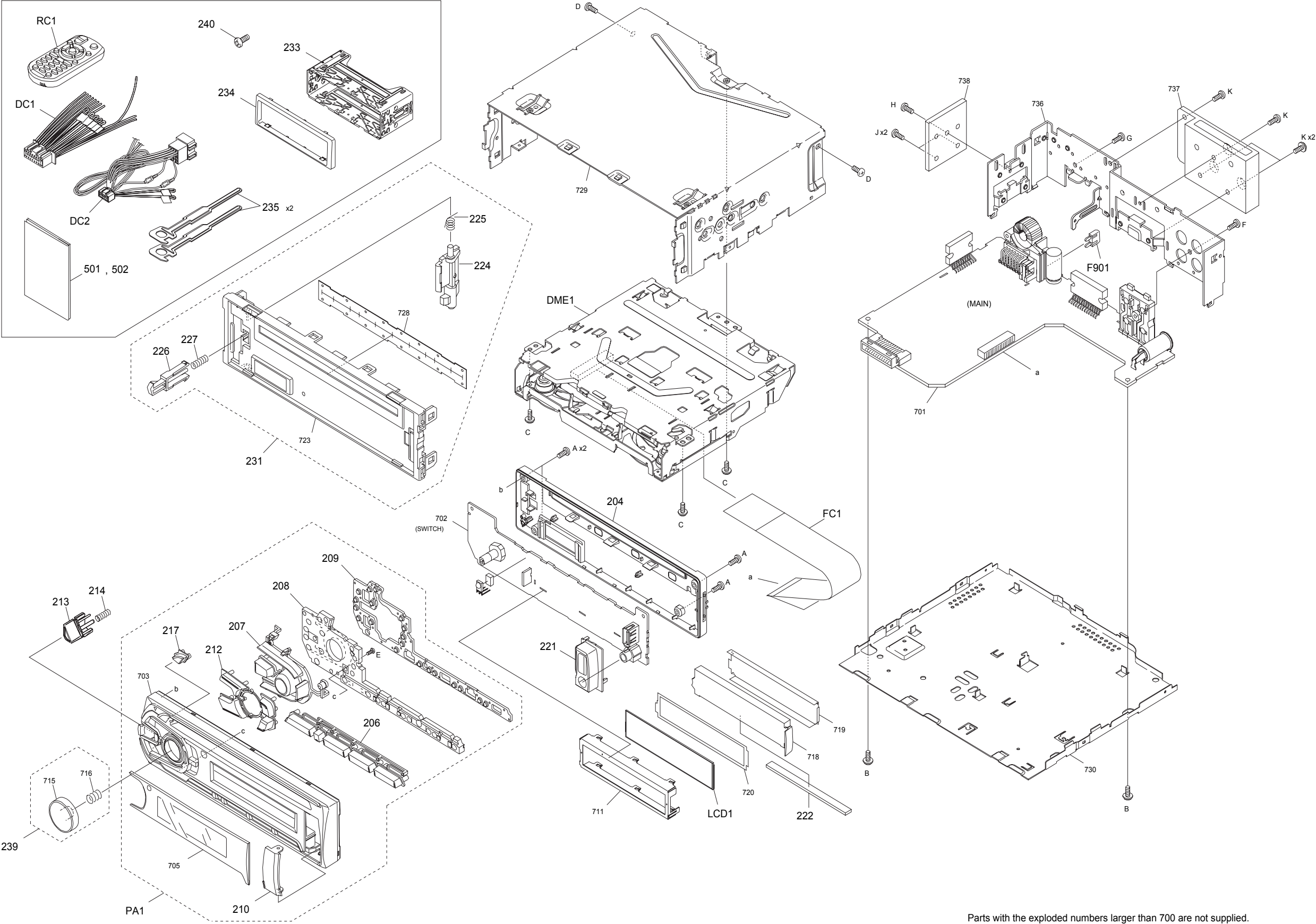
- The parts identified by the \triangle symbol are critical for safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.
- 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.

■ 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)

Block No.200



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

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KDC-100Q	E6	KDC-118U	K0	KDC-120RY	E5	KDC-158U	K2
KDC-161UB	E1	KDC-161UG	E9	KDC-161UR	E8	KDC-161URY	E7
KDC-261UB	E2	KDC-261UR	E3	KDC-MP158U	K1	KDC-U2059	M4
KDC-U2159B	M5	KDC-U2259R	M6	KDC-U2359G	M7	KDC-U259A	M3
KDC-U259B	C1	KDC-U259B	M0	KDC-U259G	H1	KDC-U259G	M9
KDC-U259R	M8	KDC-U359B	M2	KDC-U359W	M1		

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
EXPLODED VIEW (UNIT) <200>						
	DC1	QAM1338-001	DC CORD		1	E6,K0,K2
	DC1	QAM1341-001	DC CORD		1	K1
	DC1	QAM1576-001	DC CORD		1	M4,M3,C1,M0,H1,M9,M8,M2,M1
	DC2	QAM1333-001	DC CORD		1	E5,E1,E9,E8,E7,E2,E3,M5,M6,M7
	DME1	FC2-2A00NXN	CD MECHA ASSY (Made at JEIN)		1	
	DME1	or X92-6820-01	CD MECHA ASSY (Made at KETM)		1	
△	F901	QMFZ064-100-J1	FUSE	10A	1	
	FC1	WJT0335-001A-E	E-CARD WIRE		1	
	LCD1	QLD0726-001	LCD MODULE		1	
	PA1	GE20353-034A	FRONT PANEL ASSY		1	E6
	PA1	GE20353-004A	FRONT PANEL ASSY		1	K0
	PA1	GE20353-033A	FRONT PANEL ASSY		1	E5
	PA1	GE20353-003A	FRONT PANEL ASSY		1	K2
	PA1	GE20353-015A	FRONT PANEL ASSY		1	E1,E9,E8,E7
	PA1	GE20353-014A	FRONT PANEL ASSY		1	E2,E3
	PA1	GE20353-009A	FRONT PANEL ASSY		1	K1
	PA1	GE20353-026A	FRONT PANEL ASSY		1	M4
	PA1	GE20353-030A	FRONT PANEL ASSY		1	M5
	PA1	GE20353-029A	FRONT PANEL ASSY		1	M6
	PA1	GE20353-028A	FRONT PANEL ASSY		1	M7
	PA1	GE20353-025A	FRONT PANEL ASSY		1	M3,C1,M0,H1,M9,M8
	PA1	GE20353-019A	FRONT PANEL ASSY		1	M2,M1
	RC1	QAL1303-004	REMOTE CONTROL UNIT		1	K0,K2,K1,M4,M3,M0,H1,M9,M8,M2,M1
	A	QYSDSF2008ZA	TAP SCREW	M2 x 8mm	4	
	B	GE40377-002A	SCREW		2	
	C	QYSDST2604ZA	TAP SCREW	M2.6 x 4mm	3	
	D	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	2	
	E	QYSPSF2006ZA	TAP SCREW	M2 x 6mm	1	
	F	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm	1	K0,E5,K2,E1,E9,E8,E7,E2,E3,K1,M4,M5,M6,M7,M3,C1,M0,H1,M9,M8,M2,M1
	G	QYSDSG3006ZA	TAP SCREW	M3 x 6mm	1	
	H	QYSDST2608ZA	TAP SCREW	M2.6 x 8mm	1	
	J	GE40377-005A	SPECIAL SCREW		2	
	K	QYSDST2610ZA	TAP SCREW	M2.6 x 10mm	4	
	204	GE10384-001A	REAR COVER		1	
	206	GE20344-002A	PRESET BUTTON		1	
	207	GE20343-003A	ACC BTN		1	E6,K0,E5,E1,E9,E8,E7,K1
	207	GE20343-002A	ACC BTN		1	K2,E2,E3
	207	GE20343-001A	ACC BTN		1	M4,M5,M6,M7,M3,C1,M0,H1,M9,M8,M2,M1
	208	GE10382-001A	LIGHT GUIDE		1	
	209	GE20345-001A	CONDUCT. RUBBER		1	
	210	GE35665-001A	USB DOOR		1	
	212	GE20367-002A	COMBINE BUTTON		1	
	213	GE35663-001A	DETACH BUTTON		1	
	214	GE40505-003A	SPRING		1	
	217	GE35658-002A	EJECT BUTTON		1	
	221	GE35664-001A	USB HOLDER		1	
	222	QNZ1117-001	RUBBER CONNE		1	
	224	GE35686-001A	LOCK LEVER		1	
	225	GE40504-001A	SPRING		1	
	226	GE35687-001A	RELEASE LEVER		1	
	227	GE40505-001A	SPRING		1	
	231	GE35691-001A	F.CHASSIS ASSY		1	
	233	GE20362-001A	MOUNTING SLEEVE		1	
	234	GE20352-001A	TRIM PLATE		1	E6,K0,E5,K2,E1,E9,E8,E7,E2,E3,K1
	234	GE20351-001A	TRIM PLATE		1	M4,M5,M6,M7,M3,C1,M0,H1,M9,M8,M2,M1
	235	GE40685-001A	HOOK		2	
	239	GE40675-001A	VOL KNOB ASSY		1	
	240	QYSPSF2008ZA	TAP SCREW	M2 x 8mm	1	K0,K2,K1,M4,M3,C1,M0,H1,M9,M8,M2,M1
	501	GET0961-004A	INST MANUAL (ENG.RUS.UKR.)		1	E6,E7
	501	GET0960-001A	INST MANUAL (ENG.FRE.SPA.)		1	K0,K2,K1
	501	GET0961-001A	INST MANUAL (ENG.GER.RUS.UKR.)		1	E5,E1,E9,E2,E3
	501	GET0961-003A	INST MANUAL (ENG.GER.)		1	E8
	501	GET0962-001A	INST MANUAL (ENG.ARA.)		1	M4,M3,M0,H1,M9,M8,M2,M1
	501	GET0962-002A	INST MANUAL (ENG.PER.ARA.)		1	M5,M6,M7
	501	GET0977-001A	INST MANUAL (CHI(PEKIN))		1	C1
	502	GET0961-002A	INST MANUAL		1	E1,E9,E8,E2,E3

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KDC-100Q	E6	KDC-118U	K0	KDC-120RY	E5	KDC-158U	K2
KDC-161UB	E1	KDC-161UG	E9	KDC-161UR	E8	KDC-161URY	E7
KDC-261UB	E2	KDC-261UR	E3	KDC-MP158U	K1	KDC-U2059	M4
KDC-U2159B	M5	KDC-U2259R	M6	KDC-U2359G	M7	KDC-U259A	M3
KDC-U259B	C1	KDC-U259B	M0	KDC-U259G	H1	KDC-U259G	M9
KDC-U259R	M8	KDC-U359B	M2	KDC-U359W	M1		

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
			(FRE.SPA.ITA.POR.DUT.			
)			

EXPLODED VIEW (CD MECHANISM: FC2-2A00NXN)

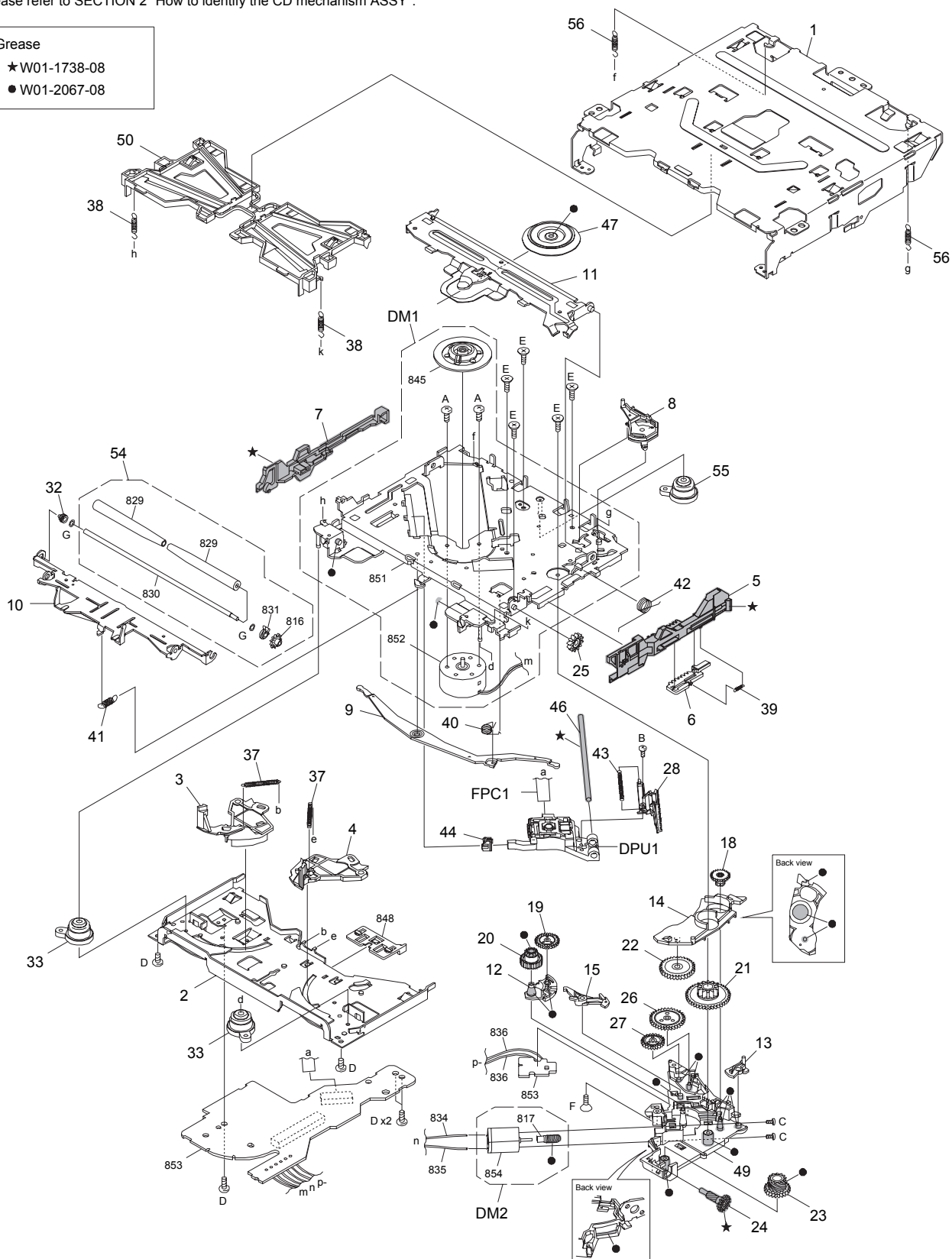
Block No.130A

The differences between FC2-2A00NXN and X92-6820-01,
please refer to SECTION 2 "How to identify the CD mechanism ASSY".

Grease

★ W01-1738-08

● W01-2067-08



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

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KDC-100Q	E6	KDC-118U	K0	KDC-120RY	E5	KDC-158U	K2
KDC-161UB	E1	KDC-161UG	E9	KDC-161UR	E8	KDC-161URY	E7
KDC-261UB	E2	KDC-261UR	E3	KDC-MP158U	K1	KDC-U2059	M4
KDC-U2159B	M5	KDC-U2259R	M6	KDC-U2359G	M7	KDC-U259A	M3
KDC-U259B	C1	KDC-U259B	M0	KDC-U259G	H1	KDC-U259G	M9
KDC-U259R	M8	KDC-U359B	M2	KDC-U359W	M1		

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
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EXPLODED VIEW (CD MECHANISM: FC2-2A00NXN) <130A>

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

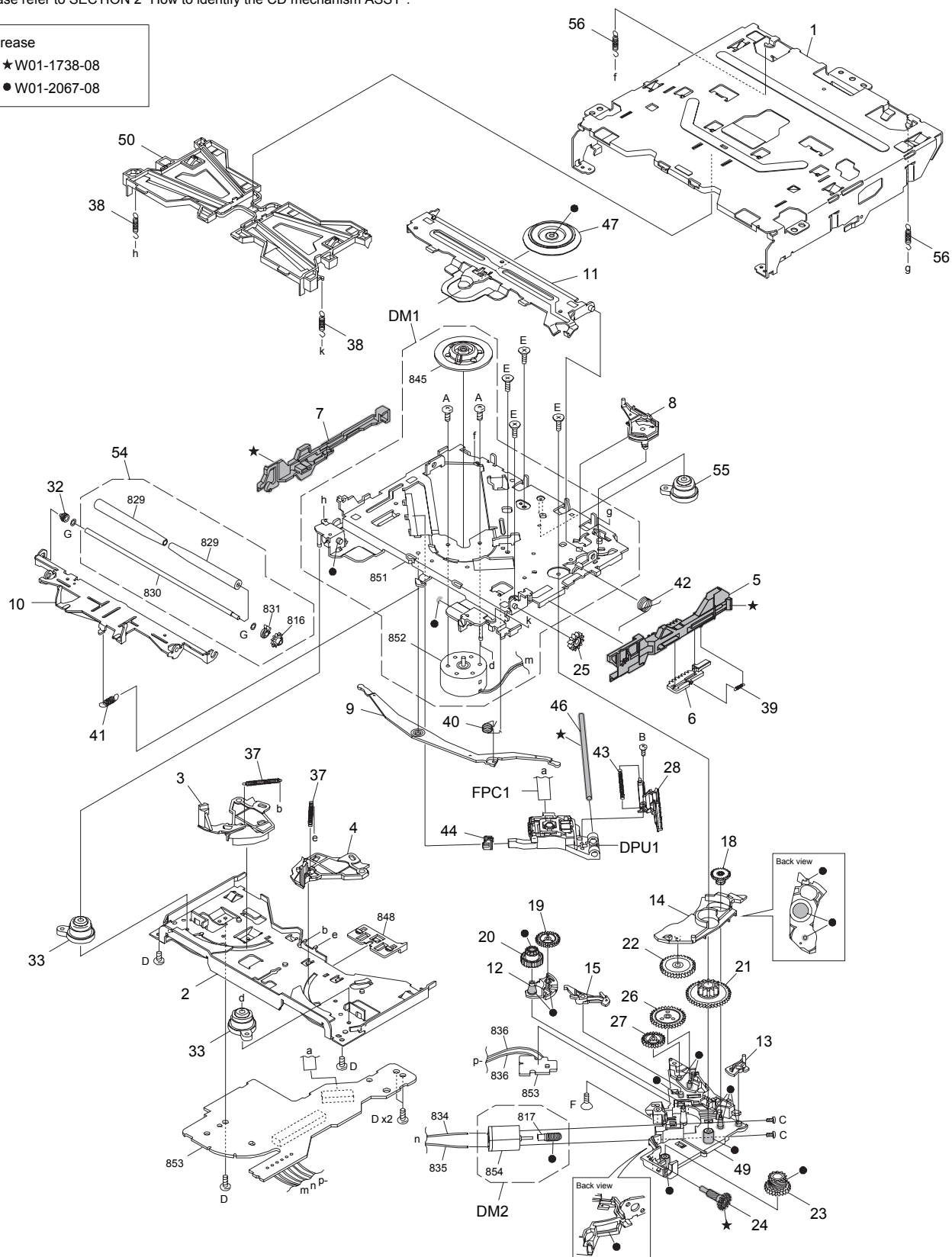
EXPLODED VIEW (CD MECHANISM: X92-6820-01)

Block No.130B

The differences between FC2-2A00NXN and X92-6820-01,
please refer to SECTION 2 "How to identify the CD mechanism ASSY".

Grease

- ★ W01-1738-08
- W01-2067-08



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

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KDC-100Q	E6	KDC-118U	K0	KDC-120RY	E5	KDC-158U	K2
KDC-161UB	E1	KDC-161UG	E9	KDC-161UR	E8	KDC-161URY	E7
KDC-261UB	E2	KDC-261UR	E3	KDC-MP158U	K1	KDC-U2059	M4
KDC-U2159B	M5	KDC-U2259R	M6	KDC-U2359G	M7	KDC-U259A	M3
KDC-U259B	C1	KDC-U259B	M0	KDC-U259G	H1	KDC-U259G	M9
KDC-U259R	M8	KDC-U359B	M2	KDC-U359W	M1		

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
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EXPLODED VIEW (CD MECHANISM: X92-6820-01) <130B>

	DM1	X94-2230-00	MD CHASSIS ASSY		1	
	DM2	X94-2240-00	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	M1.7 x 4.5mm	1	
C		QYSPSPT2025MA	SCREW	M2 x 2.5mm	2	
D		N09-6108-15	MINI SCREW		5	
E		N09-6738-15	G.HOLDER SCREW		4	
F		N09-6921-05	M. SHAFT SCREW		1	
G		N19-2356-04	FLAT WASHER		2	
1		A10-5625-21	OUTER CHASSIS		1	
2		A10-5626-01	LOWER CHASSIS		1	
3		D10-7174-03	DISC ARM L		1	
4		D10-7175-03	DISC ARM R		1	
5		D10-7177-02	SLIDER R		1	
6		D10-7178-03	TRIGGER SLIDER		1	
7		D10-7179-02	SLIDER L		1	
8		D10-7180-03	TRIGGER ARM		1	
9		D10-7181-13	JOINT LEVER		1	
10		D10-7182-12	ROLLER LEVER		1	
11		D10-7183-02	CLAMP ARM		1	
12		D10-7184-03	TRANSFER ARM		1	
13		D10-7185-04	SL LOCK CAM		1	
14		D10-7186-03	SL LOCK ARM		1	
15		D10-7187-13	PICK LOCK ARM		1	
18		D13-3104-04	HELICAL GEAR 1		1	
19		D13-3105-04	TRANSFER GEAR		1	
20		D13-3106-04	LOAD GEAR H		1	
21		D13-3107-04	DRIVE GEAR		1	
22		D13-3108-04	JOINT GEAR		1	
23		D13-3109-04	WORM GEAR 2		1	
24		D13-3110-04	HELICAL GEAR 2		1	
25		D13-3111-04	LOAD GEAR V		1	
26		D13-3112-04	PICK GEAR 1		1	
27		D13-3113-04	PICK GEAR 2		1	
28		D13-3114-03	RACK GEAR		1	
32		D23-0974-14	R.RETAINER L		1	
33		D39-0403-05	DAMPER F		2	
37		G01-4810-04	DISC ARM SPRING		2	
38		G01-4829-04	FLOAT SPRING(F)		2	
39		G01-4813-04	TRIGGER SPRING		1	
40		G01-4814-04	LOAD SPRING		1	
41		G01-4815-04	ROLLER SPRING		1	
42		G01-4816-04	CLAMP SPRING		1	
43		G01-4817-04	PICK SPRING		1	
44		LV36813-501A	SUB GUIDE CAP		1	
46		LV44555-001A	MAIN SHAFT		1	
47		J11-0692-03	CLAMPER		1	
49		J19-7360-21	GEAR HOLDER		1	
50		J90-1209-21	DISC GUIDE		1	
54		X94-2250-00	ROLLER ASSY		1	
55		D39-0404-05	DAMPER R		1	
56		G01-4812-04	FLOAT SPRING(R)		2	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KDC-100Q	E6	KDC-118U	K0	KDC-120RY	E5	KDC-158U	K2
KDC-161UB	E1	KDC-161UG	E9	KDC-161UR	E8	KDC-161URY	E7
KDC-261UB	E2	KDC-261UR	E3	KDC-MP158U	K1	KDC-U2059	M4
KDC-U2159B	M5	KDC-U2259R	M6	KDC-U2359G	M7	KDC-U259A	M3
KDC-U259B	C1	KDC-U259B	M0	KDC-U259G	H1	KDC-U259G	M9
KDC-U259R	M8	KDC-U359B	M2	KDC-U359W	M1		

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
MAIN PWB ASSY (GEA10358-xxA) <ER>						
△	IC1	TEF6657HN-X	IC		1	
	IC80	MFI337S3959-X	IC		1	K2,E2,E3,M2,M1
	IC161	TDA7718B-X	IC		1	
△	IC301	JCV8031	IC		1	
	IC530	BU33TD3WG-W	IC		1	
△	IC540	MN6627553APA	IC		1	
△	IC701	R5S726A0D216FP	IC		1	
	IC710	BR24T02FJ-W-X	IC		1	
	IC720	BU4228F-W	IC		1	
△	IC840	JES269C	IC		1	
△	IC901	LV5684NPVD	IC		1	
	IC943	BU1CTD3WG-W	IC		1	
	IC981	BD9876EFJ-X	IC		1	
	IC982	NCP380HSNAJAA-X	IC		1	
	Q250	LTC043TEB-X	DIGI TRANSISTOR		1	K0,E5,K2,E1,E9,E8,E7 ,E2,E3,K1,M4,M5,M6,M7, M3,C1,M0,H1,M9,M8,M2, M1
	Q251	LTC043TEB-X	DIGI TRANSISTOR		1	K0,E5,K2,E1,E9,E8,E7 ,E2,E3,K1,M4,M5,M6,M7, M3,C1,M0,H1,M9,M8,M2, M1
	Q321	LTC043TEB-X	DIGI TRANSISTOR		1	E5,K1,M4,M5,M6,M7,M3 ,M0,H1,M9,M8,M2,M1
	Q331	LTC043TEB-X	DIGI TRANSISTOR		1	E5,K1,M4,M5,M6,M7,M3 ,M0,H1,M9,M8,M2,M1
	Q540	2SA2188/F-X	TRANSISTOR		1	
	Q541	LTA043EEB-X	DIGI TRANSISTOR		1	
	Q542	LTC024EEB-X	DIGI TRANSISTOR		1	
	Q780	LTA024EEB-X	DIGI TRANSISTOR		1	
	Q781	LTC024EEB-X	DIGI TRANSISTOR		1	
	Q782	LTA024EEB-X	DIGI TRANSISTOR		1	
	Q912	LTA014YEB-X	DIGI TRANSISTOR		1	
	Q940	2SA812/5-6/-X	TRANSISTOR		1	
	Q941	LTC024EEB-X	DIGI TRANSISTOR		1	
	Q970	LSCR523UB-X	TRANSISTOR		1	
	Q971	LSCR523UB-X	TRANSISTOR		1	
	Q972	LSCR523UB-X	TRANSISTOR		1	
	D1	NAF0029-002X	ESD SUPPRESSOR		1	
	D100	RSB6.8SM-X	BP Z DIODE		1	
	D101	RSB6.8SM-X	BP Z DIODE		1	
	D300	DA2J101-X	SI DIODE		1	
	D540	GS1J-LTP-X	SI DIODE		1	
	D541	DZ2J033/M/-X	Z DIODE		1	
	D780	BAW56-TP-X	SI DIODE		1	
	D781	BAW56-TP-X	SI DIODE		1	
	D782	DA2J101-X	SI DIODE		1	
	D783	BAW56-TP-X	SI DIODE		1	
△	D891	BAW56-TP-X	SI DIODE		1	
	D901	1N5401-BPC04	SI DIODE		1	
	D902	SK34A-L-X	SB DIODE		1	
	D906	MBRX130-TP-X	SB DIODE		1	
	D907	MBR0530-X	SB DIODE		1	
	D908	DZ2J051/M/-X	Z DIODE		1	
	D909	RB521SM-30-X	SB DIODE		1	E5,E1,E9,E8,E7,E2,E3 ,K1,M4,M5,M6,M7,M3,C1, M0,H1,M9,M8,M2,M1
	D970	DZ2J062/M/-X	Z DIODE		1	
	D971	DZ2J068/M/-X	Z DIODE		1	
	D972	DZ2J062/M/-X	Z DIODE		1	
	D981	SK34A-L-X	SB DIODE		1	
	D984	GS1J-LTP-X	SI DIODE		1	
	C1	CC73GCH1H330J	C CAPACITOR	33pF 50V J	1	
	C3	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C5	CK73GBB1C224K	C CAPACITOR	0.22uF 16V K	1	
	C6	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1	
	C7	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1	
	C8	CC73GCH1H010C	C CAPACITOR	1pF 50V C	1	
	C10	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1	
	C11	CK73GBB1H152K	C CAPACITOR	1500pF 50V K	1	
	C12	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C13	CC73GCH1H220J	C CAPACITOR	22pF 50V J	1	
	C14	CC73GCH1H090D	C CAPACITOR	9pF 50V D	1	
	C17	CK730AX0J106K	C CAPACITOR	10uF 6.3V K	1	
	C20	CC73GCH1H050C	C CAPACITOR	5pF 50V C	1	
	C23	CK730AX0J106K	C CAPACITOR	10uF 6.3V K	1	
	C25	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C26	CC73GCH1H010C	C CAPACITOR	1pF 50V C	1	
	C28	CC73GCH1H120J	C CAPACITOR	12pF 50V J	1	
	C29	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C80	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	K2,E2,E3,M2,M1
	C100	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C101	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1	
	C102	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1	
	C103	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C104	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C105	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KDC-100Q	E6	KDC-118U	K0	KDC-120RY	E5	KDC-158U	K2
KDC-161UB	E1	KDC-161UG	E9	KDC-161UR	E8	KDC-161URY	E7
KDC-261UB	E2	KDC-261UR	E3	KDC-MP158U	K1	KDC-U2059	M4
KDC-U2159B	M5	KDC-U2259R	M6	KDC-U2359G	M7	KDC-U259A	M3
KDC-U259B	C1	KDC-U259B	M0	KDC-U259G	H1	KDC-U259G	M9
KDC-U259R	M8	KDC-U359B	M2	KDC-U359W	M1		

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	C161	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C162	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C163	CD04AV1V4R7M	E CAPACITOR	4.7uF 35V M	1	
	C164	CD04AV1V4R7M	E CAPACITOR	4.7uF 35V M	1	
	C165	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	1	
	C166	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C167	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C168	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C169	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C171	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C177	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C250	CC73GCH1H101J	C CAPACITOR	100pF 50V J	1	K0,E5,K2,E1,E9,E8,E7 E2,E3,K1,M4,M5,M6,M7, M3,C1,M0,H1,M9,M8,M2, M1
	C251	CK73EBB1C475K	C CAPACITOR	4.7uF 16V K	1	K0,E5,K2,E1,E9,E8,E7 E2,E3,K1,M4,M5,M6,M7, M3,C1,M0,H1,M9,M8,M2, M1
	C260	CC73GCH1H101J	C CAPACITOR	100pF 50V J	1	K0,E5,K2,E1,E9,E8,E7 E2,E3,K1,M4,M5,M6,M7, M3,C1,M0,H1,M9,M8,M2, M1
	C261	CK73EBB1C475K	C CAPACITOR	4.7uF 16V K	1	K0,E5,K2,E1,E9,E8,E7 E2,E3,K1,M4,M5,M6,M7, M3,C1,M0,H1,M9,M8,M2, M1
	C303	CC73GCH1H820J	C CAPACITOR	82pF 50V J	1	
	C304	CD04AV1C470M	E CAPACITOR	47uF 16V M	1	
	C305	CC73GCH1H820J	C CAPACITOR	82pF 50V J	1	
	C306	CC73GCH1H820J	C CAPACITOR	82pF 50V J	1	
	C312	CK730AV1C105K	C CAPACITOR	1uF 16V K	1	
	C316	CK730AV1C224K	C CAPACITOR	0.22uF 16V K	1	
	C317	CK730AV1C224K	C CAPACITOR	0.22uF 16V K	1	
	C318	CK730AV1C224K	C CAPACITOR	0.22uF 16V K	1	
	C319	CK730AV1C224K	C CAPACITOR	0.22uF 16V K	1	
	C320	CC73GCH1H101J	C CAPACITOR	100pF 50V J	1	E5,K1,M4,M5,M6,M7,M3 M0,H1,M9,M8,M2,M1
	C321	CK73EBB1C475K	C CAPACITOR	4.7uF 16V K	1	E5,K1,M4,M5,M6,M7,M3 M0,H1,M9,M8,M2,M1
	C330	CC73GCH1H101J	C CAPACITOR	100pF 50V J	1	E5,K1,M4,M5,M6,M7,M3 M0,H1,M9,M8,M2,M1
	C331	CK73EBB1C475K	C CAPACITOR	4.7uF 16V K	1	E5,K1,M4,M5,M6,M7,M3 M0,H1,M9,M8,M2,M1
	C360	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	M4,M3,C1,M0,H1,M9,M8 M2,M1
	C361	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	M4,M3,C1,M0,H1,M9,M8 M2,M1
	C362	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	M4,M3,C1,M0,H1,M9,M8 M2,M1
	C363	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	M4,M3,C1,M0,H1,M9,M8 M2,M1
	C364	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	M4,M3,C1,M0,H1,M9,M8 M2,M1
	C365	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	M4,M3,C1,M0,H1,M9,M8 M2,M1
	C366	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	M4,M3,C1,M0,H1,M9,M8 M2,M1
	C367	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	M4,M3,C1,M0,H1,M9,M8 M2,M1
	C368	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C369	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	1	
	C510	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	
	C530	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C531	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	
	C532	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	
	C533	CD04AV1C470M	E CAPACITOR	47uF 16V M	1	
	C534	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	
	C540	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C541	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C542	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	
	C543	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	
	C544	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C545	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C546	CK73GBB1H682K	C CAPACITOR	6800pF 50V K	1	
	C547	CK73GBB1H682K	C CAPACITOR	6800pF 50V K	1	
	C548	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	1	
	C549	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C550	CK73GBB1C154K	C CAPACITOR	0.15uF 16V K	1	
	C552	CK73GBB1H682K	C CAPACITOR	6800pF 50V K	1	
	C553	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C554	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	1	
	C555	CK73GBB1H223K	C CAPACITOR	0.022uF 50V K	1	
	C556	CK73GBB1H332K	C CAPACITOR	3300pF 50V K	1	
	C557	CK73GBB1A334K	C CAPACITOR	0.33uF 10V K	1	
	C558	NCB20JK-475X	C CAPACITOR	4.7uF 6.3V K	1	
	C559	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C560	CC73GCH1H681J	C CAPACITOR	680pF 50V J	1	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KDC-100Q	E6	KDC-118U	K0	KDC-120RY	E5	KDC-158U	K2
KDC-161UB	E1	KDC-161UG	E9	KDC-161UR	E8	KDC-161URY	E7
KDC-261UB	E2	KDC-261UR	E3	KDC-MP158U	K1	KDC-U2059	M4
KDC-U2159B	M5	KDC-U2259R	M6	KDC-U2359G	M7	KDC-U259A	M3
KDC-U259B	C1	KDC-U259B	M0	KDC-U259G	H1	KDC-U259G	M9
KDC-U259R	M8	KDC-U359B	M2	KDC-U359W	M1		

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	C561	NCB11AK-106X	C CAPACITOR	10uF 10V K	1	
	C562	CK73GBB1H153K	C CAPACITOR	0.015uF 50V K	1	
	C563	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C564	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1	
	C565	CK73GBB1E823K	C CAPACITOR	0.082uF 25V K	1	
	C567	CK73GBB1H102K	C CAPACITOR	1000pF 50V K	1	
	C568	CK73GBB1A334K	C CAPACITOR	0.33uF 10V K	1	
	C570	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C571	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C572	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	
	C574	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	
	C576	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C577	CC73GCH1H100D	C CAPACITOR	10pF 50V D	1	
	C578	CC73GCH1H120J	C CAPACITOR	12pF 50V J	1	
	C579	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C583	CK73GBB1H821K	C CAPACITOR	820pF 50V K	1	
	C584	CK73GBB1H821K	C CAPACITOR	820pF 50V K	1	
	C587	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	
	C588	CK73GBB1H681K	C CAPACITOR	680pF 50V K	1	
	C589	CK73GBB1H681K	C CAPACITOR	680pF 50V K	1	
	C701	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C702	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C703	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C704	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C705	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C707	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C708	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C709	CC73GCH1H090D	C CAPACITOR	9pF 50V D	1	
	C710	CC73GCH1H090D	C CAPACITOR	9pF 50V D	1	
	C711	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C712	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C713	CK73GBB1H471K	C CAPACITOR	470pF 50V K	1	
	C714	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C715	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C716	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C717	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C718	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C719	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	
	C722	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	
	C723	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	
	C724	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	
	C727	CK73GBB1H682K	C CAPACITOR	6800pF 50V K	1	
	C728	CK73GBB1C473K	C CAPACITOR	0.047uF 16V K	1	
	C729	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C730	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C840	CK73GBB1H472K	C CAPACITOR	4700pF 50V K	1	
	C891	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C901	QE20981-228	E CAPACITOR	2200uF	1	
	C903	CD04AS1C220M	E CAPACITOR	22uF 16V M	1	
	C904	CD04AR1C471M	E CAPACITOR	470uF 16V M	1	
	C905	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	1	
	C907	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C908	CK73GBB1C224K	C CAPACITOR	0.22uF 16V K	1	
	C910	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C911	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C913	CK73FBB1C105K	C CAPACITOR	1uF 16V K	1	
	C914	CK73FBB1C105K	C CAPACITOR	1uF 16V K	1	
	C916	CC73GCH1H070D	C CAPACITOR	7pF 50V D	1	
	C950	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C953	CK73GBB1C474K	C CAPACITOR	0.47uF 16V K	1	
	C954	CK73GBB1C474K	C CAPACITOR	0.47uF 16V K	1	
	C955	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	1	
	C979	QEKJ0JM-107Z	E CAPACITOR	100uF 6.3V M	1	
	C981	CK73GBB1H682K	C CAPACITOR	6800pF 50V K	1	
	C984	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C986	CK73EXR1E106K	C CAPACITOR	10uF 25V K	1	
	C987	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C988	NCB11AK-106X	C CAPACITOR	10uF 10V K	1	
	C989	NCB11AK-106X	C CAPACITOR	10uF 10V K	1	
	C990	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C991	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	R1	RK73GB2A105J	MG RESISTOR	1MΩ 1/10W J	1	
	R2	RK73GB2A105J	MG RESISTOR	1MΩ 1/10W J	1	
	R3	RK73GB2A820J	MG RESISTOR	82Ω 1/10W J	1	
	R4	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R5	RK73GB2A4R7J	MG RESISTOR	4.7Ω 1/10W J	1	
	R7	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R8	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R20	RK73GB2A100J	MG RESISTOR	10Ω 1/10W J	1	
	R80	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	K2,E2,E3,M2,M1
	R81	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	K2,E2,E3,M2,M1
	R82	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	K2,E2,E3,M2,M1
	R83	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	K2,E2,E3,M2,M1
	R84	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	K2,E2,E3,M2,M1
	R85	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	K2,E2,E3,M2,M1
	R100	RK73EB2E471J	MG RESISTOR	470Ω 1/4W J	1	
	R101	RK73FB2B000J	MG RESISTOR	0Ω 1/8W J	1	
	R103	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KDC-100Q	E6	KDC-118U	K0	KDC-120RY	E5	KDC-158U	K2
KDC-161UB	E1	KDC-161UG	E9	KDC-161UR	E8	KDC-161URY	E7
KDC-261UB	E2	KDC-261UR	E3	KDC-MP158U	K1	KDC-U2059	M4
KDC-U2159B	M5	KDC-U2259R	M6	KDC-U2359G	M7	KDC-U259A	M3
KDC-U259B	C1	KDC-U259B	M0	KDC-U259G	H1	KDC-U259G	M9
KDC-U259R	M8	KDC-U359B	M2	KDC-U359W	M1		

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	R104	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R167	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R168	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R169	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R170	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R171	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R250	RK73GB2A181J	MG RESISTOR	180Ω 1/10W J	1	K0,E5,K2,E1,E9,E8,E7, E2,E3,K1,M4,M5,M6,M7, M3,C1,M0,H1,M9,M8,M2, M1
	R251	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	K0,E5,K2,E1,E9,E8,E7, E2,E3,K1,M4,M5,M6,M7, M3,C1,M0,H1,M9,M8,M2, M1
	R252	RK73GB2A331J	MG RESISTOR	330Ω 1/10W J	1	K0,E5,K2,E1,E9,E8,E7, E2,E3,K1,M4,M5,M6,M7, M3,C1,M0,H1,M9,M8,M2, M1
	R260	RK73GB2A181J	MG RESISTOR	180Ω 1/10W J	1	K0,E5,K2,E1,E9,E8,E7, E2,E3,K1,M4,M5,M6,M7, M3,C1,M0,H1,M9,M8,M2, M1
	R261	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	K0,E5,K2,E1,E9,E8,E7, E2,E3,K1,M4,M5,M6,M7, M3,C1,M0,H1,M9,M8,M2, M1
	R262	RK73GB2A331J	MG RESISTOR	330Ω 1/10W J	1	K0,E5,K2,E1,E9,E8,E7, E2,E3,K1,M4,M5,M6,M7, M3,C1,M0,H1,M9,M8,M2, M1
	R301	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R302	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	
	R303	RK73EB2E5R1J	MG RESISTOR	5.1Ω 1/4W J	1	
	R304	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R307	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R320	RK73GB2A181J	MG RESISTOR	180Ω 1/10W J	1	E5,K1,M4,M5,M6,M7,M3, M0,H1,M9,M8,M2,M1
	R321	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	E5,K1,M4,M5,M6,M7,M3, M0,H1,M9,M8,M2,M1
	R323	RK73GB2A331J	MG RESISTOR	330Ω 1/10W J	1	E5,K1,M4,M5,M6,M7,M3, M0,H1,M9,M8,M2,M1
	R330	RK73GB2A181J	MG RESISTOR	180Ω 1/10W J	1	E5,K1,M4,M5,M6,M7,M3, M0,H1,M9,M8,M2,M1
	R331	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	E5,K1,M4,M5,M6,M7,M3, M0,H1,M9,M8,M2,M1
	R333	RK73GB2A331J	MG RESISTOR	330Ω 1/10W J	1	E5,K1,M4,M5,M6,M7,M3, M0,H1,M9,M8,M2,M1
	R400	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R401	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R402	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R403	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R404	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R409	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R411	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R412	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R413	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R414	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R415	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R416	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R417	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R419	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R420	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R421	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R422	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R424	RK73EB2E471J	MG RESISTOR	470Ω 1/4W J	1	
	R425	RK73EB2E471J	MG RESISTOR	470Ω 1/4W J	1	
	R431	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R434	NR20084-0R0X	MG RESISTOR	0Ω	1	
	R435	RK73GB2A1R0J	MG RESISTOR	1Ω 1/10W J	1	
	R436	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R438	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R440	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R442	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R447	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R448	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R449	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R450	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R452	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R453	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R454	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R463	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R467	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R468	NR20084-0R0X	MG RESISTOR	0Ω	1	
	R486	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R530	RK73EB2E100J	MG RESISTOR	10Ω 1/4W J	1	
	R541	RK73GB2A562J	MG RESISTOR	5.6kΩ 1/10W J	1	
	R542	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	
	R543	RK73GB2A562J	MG RESISTOR	5.6kΩ 1/10W J	1	
	R544	RK73GB2A183J	MG RESISTOR	18kΩ 1/10W J	1	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KDC-100Q	E6	KDC-118U	K0	KDC-120RY	E5	KDC-158U	K2
KDC-161UB	E1	KDC-161UG	E9	KDC-161UR	E8	KDC-161URY	E7
KDC-261UB	E2	KDC-261UR	E3	KDC-MP158U	K1	KDC-U2059	M4
KDC-U2159B	M5	KDC-U2259R	M6	KDC-U2359G	M7	KDC-U259A	M3
KDC-U259B	C1	KDC-U259B	M0	KDC-U259G	H1	KDC-U259G	M9
KDC-U259R	M8	KDC-U359B	M2	KDC-U359W	M1		

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	R546	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R548	RK73GB2A123J	MG RESISTOR	12kΩ 1/10W J	1	
	R550	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	
	R551	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	
	R554	RK73GB2A225J	MG RESISTOR	2.2MΩ 1/10W J	1	
	R555	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R556	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R557	RK73EB2E4R7J	MG RESISTOR	4.7Ω 1/4W J	1	
	R558	RK73GB2A821J	MG RESISTOR	820Ω 1/10W J	1	
	R559	RK73GB2A272J	MG RESISTOR	2.7kΩ 1/10W J	1	
	R561	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R562	RK73EB2E823J	MG RESISTOR	82kΩ 1/4W J	1	
	R563	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R569	RK73EB2E102J	MG RESISTOR	1kΩ 1/4W J	1	
	R570	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R571	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R572	RK73GB2A221J	MG RESISTOR	220Ω 1/10W J	1	
	R573	RK73GB2A105J	MG RESISTOR	1MΩ 1/10W J	1	
	R577	RK73GB2A330J	MG RESISTOR	33Ω 1/10W J	1	
	R578	RK73GB2A330J	MG RESISTOR	33Ω 1/10W J	1	
	R579	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	
	R580	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	
	R589	RK73GB2A821J	MG RESISTOR	820Ω 1/10W J	1	
	R590	RK73GB2A821J	MG RESISTOR	820Ω 1/10W J	1	
	R591	RK73EB2E431J	MG RESISTOR	430Ω 1/4W J	1	
	R701	RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	
	R702	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R703	RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	
	R704	RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	
	R705	RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	
	R706	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R707	RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	
	R708	RK73GB2A911J	MG RESISTOR	910Ω 1/10W J	1	
	R709	RK73GB2A332J	MG RESISTOR	3.3kΩ 1/10W J	1	
	R710	RK73GB2A104J	MG RESISTOR	100kΩ 1/10W J	1	
	R717	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R718	RK73EB2E222J	MG RESISTOR	2.2kΩ 1/4W J	1	
	R719	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	
	R720	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	
	R721	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R722	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R723	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	
	R725	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	E6,E5,E1,E9,E8,E7,E2,E3
	R726	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R727	RK73GB2A911J	MG RESISTOR	910Ω 1/10W J	1	
	R728	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R729	RK73GB2A105J	MG RESISTOR	1MΩ 1/10W J	1	
	R730	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	
	R731	RK73GB2A153J	MG RESISTOR	15kΩ 1/10W J	1	
	R732	RK73GB2A153J	MG RESISTOR	15kΩ 1/10W J	1	
	R733	RK73GB2A220J	MG RESISTOR	22Ω 1/10W J	1	
	R734	RK73GB2A220J	MG RESISTOR	22Ω 1/10W J	1	
	R735	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R738	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R739	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R740	RK73GB2A225J	MG RESISTOR	2.2MΩ 1/10W J	1	K0,K2,K1,M4,M5,M6,M7,M3,C1,M0,H1,M9,M8,M2,M1
	R741	RK73GB2A273J	MG RESISTOR	27kΩ 1/10W J	1	E6,K2
	R741	RK73GB2A393J	MG RESISTOR	39kΩ 1/10W J	1	E5,K1
	R741	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	E2,E3,M2,M1
	R741	RK73GB2A822J	MG RESISTOR	8.2kΩ 1/10W J	1	M5,M6,M7
	R742	RK73GB2A393J	MG RESISTOR	39kΩ 1/10W J	1	E6,E5,E1,E9,E8,E7,E2,E3,M5,M6,M7
	R742	RK73GB2A333J	MG RESISTOR	33kΩ 1/10W J	1	M4,M3,C1,M0,H1,M9,M8,M2,M1
	R743	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	E6,K2
	R743	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	K0,E1,E9,E8,E7,M4,M3,C1,M0,H1,M9,M8
	R743	RK73GB2A822J	MG RESISTOR	8.2kΩ 1/10W J	1	E5,K1
	R743	RK73GB2A273J	MG RESISTOR	27kΩ 1/10W J	1	E2,E3,M2,M1
	R743	RK73GB2A393J	MG RESISTOR	39kΩ 1/10W J	1	M5,M6,M7
	R745	RK73GB2A822J	MG RESISTOR	8.2kΩ 1/10W J	1	E6,E5,E1,E9,E8,E7,E2,E3,M5,M6,M7
	R745	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	K0,K2,K1
	R745	RK73GB2A153J	MG RESISTOR	15kΩ 1/10W J	1	M4,M3,C1,M0,H1,M9,M8,M2,M1
	R746	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R747	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R748	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R749	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R756	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R757	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R758	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R759	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R760	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R761	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KDC-100Q	E6	KDC-118U	K0	KDC-120RY	E5	KDC-158U	K2
KDC-161UB	E1	KDC-161UG	E9	KDC-161UR	E8	KDC-161URY	E7
KDC-261UB	E2	KDC-261UR	E3	KDC-MP158U	K1	KDC-U2059	M4
KDC-U2159B	M5	KDC-U2259R	M6	KDC-U2359G	M7	KDC-U259A	M3
KDC-U259B	C1	KDC-U259B	M0	KDC-U259G	H1	KDC-U259G	M9
KDC-U259R	M8	KDC-U359B	M2	KDC-U359W	M1		

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	R762	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R763	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	
	R764	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R765	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R769	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R773	RK73EB2E102J	MG RESISTOR	1kΩ 1/4W J	1	
	R776	RK73GB2A271J	MG RESISTOR	270Ω 1/10W J	1	
	R777	RK73GB2A271J	MG RESISTOR	270Ω 1/10W J	1	
	R779	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R780	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	
	R781	RK73GB2A331J	MG RESISTOR	330Ω 1/10W J	1	
	R783	RK73GB2A104J	MG RESISTOR	100kΩ 1/10W J	1	
	R784	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R840	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R841	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R842	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R891	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R892	RK73GB2A683J	MG RESISTOR	68kΩ 1/10W J	1	
	R893	RK73GB2A123J	MG RESISTOR	12kΩ 1/10W J	1	
	R901	RK73GB2A333J	MG RESISTOR	33kΩ 1/10W J	1	
	R902	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R903	RK73GB2A273J	MG RESISTOR	27kΩ 1/10W J	1	
	R904	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R905	RK73GB2A100J	MG RESISTOR	10Ω 1/10W J	1	
	R908	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	E6,K0,K2
	R909	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	E6,E5,E1,E9,E8,E7,E2 ,E3,M4,M5,M6,M7,M3,C1, M0,H1,M9,M8,M2,M1
	R911	RK73EB2E472J	MG RESISTOR	4.7kΩ 1/4W J	1	
	R914	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R915	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R921	RK73EB2E103J	MG RESISTOR	10kΩ 1/4W J	1	
	R940	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R941	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	
	R969	RK73GB2A563J	MG RESISTOR	56kΩ 1/10W J	1	
	R970	RK73FB2B683J	MG RESISTOR	68kΩ 1/8W J	1	
	R971	RK73FB2B473J	MG RESISTOR	47kΩ 1/8W J	1	
	R972	RK73GB2A104J	MG RESISTOR	100kΩ 1/10W J	1	
	R973	RK73GB2A333J	MG RESISTOR	33kΩ 1/10W J	1	
	R974	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	
	R975	RK73GB2A333J	MG RESISTOR	33kΩ 1/10W J	1	
	R976	RK73GB2A104J	MG RESISTOR	100kΩ 1/10W J	1	
	R977	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	
	R978	RK73EB2E473J	MG RESISTOR	47kΩ 1/4W J	1	
	R979	RK73EB2E682J	MG RESISTOR	6.8kΩ 1/4W J	1	
	R980	RK73EB2E682J	MG RESISTOR	6.8kΩ 1/4W J	1	
	R982	RK73GH2A183D	MG RESISTOR	18kΩ 1/10W D	1	
	R984	RK73GH2A432D	MG RESISTOR	4.3kΩ 1/10W D	1	
	R985	RK73GB2A471J	MG RESISTOR	470Ω 1/10W J	1	
	R986	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R987	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R988	RK73EB2E222J	MG RESISTOR	2.2kΩ 1/4W J	1	
	R989	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R990	RK73GH2A203D	MG RESISTOR	20kΩ 1/10W D	1	
	L3	NQLM93K-R10X	COIL	0.1uH K	1	
	L5	NQLM93K-4R7X	COIL	4.7uH K	1	
	L6	NQLM93K-R15X	COIL	0.15uH K	1	
	L7	NQLM93K-R47X	COIL	0.47uH K	1	
	L8	NQLM93K-1R0X	COIL	1uH K	1	
	L9	NQL79GM-4R7X	COIL	4.7uH M	1	
	L10	NQLM93K-R12X	COIL	0.12uH K	1	
	L11	NQLM93K-R22X	COIL	0.22uH K	1	
	L540	NQR0022-005X	FERRITE BEADS		1	
	L541	NQR0022-005X	FERRITE BEADS		1	
	L542	NQR0022-005X	FERRITE BEADS		1	
	L574	NQR0022-005X	FERRITE BEADS		1	
	L701	NQR0022-005X	FERRITE BEADS		1	
	L750	NQR0269-017X	FERRITE BEADS		1	
	L751	NQR0269-030X	FERRITE BEADS		1	
	L752	NQR0022-005X	FERRITE BEADS		1	
	L753	NQR0022-005X	FERRITE BEADS		1	
	L754	NQR0022-005X	FERRITE BEADS		1	
	L755	NQR0022-005X	FERRITE BEADS		1	
	L756	NQR0022-005X	FERRITE BEADS		1	
	L757	NQR0022-005X	FERRITE BEADS		1	
	L758	NQR0154-006X	FERRITE CORE		1	
	L777	NQR0022-005X	FERRITE BEADS		1	
	L778	NQR0022-005X	FERRITE BEADS		1	
	L779	NQR0022-005X	FERRITE BEADS		1	
	L780	NQR0022-005X	FERRITE BEADS		1	
	L781	NQR0022-005X	FERRITE BEADS		1	
	L782	NQR0022-005X	FERRITE BEADS		1	
	L783	NQR0022-005X	FERRITE BEADS		1	
	L841	NQR0154-006X	FERRITE CORE		1	
	L901	QQR1909-001	CHOKE COIL		1	
	L941	NQL79GM-4R7X	COIL	4.7uH M	1	
	L981	NQLN9EM-150X	COIL	15uH M	1	
	L982	NQLH25M-4R7X	COIL	4.7uH M	1	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KDC-100Q	E6	KDC-118U	K0	KDC-120RY	E5	KDC-158U	K2
KDC-161UB	E1	KDC-161UG	E9	KDC-161UR	E8	KDC-161URY	E7
KDC-261UB	E2	KDC-261UR	E3	KDC-MP158U	K1	KDC-U2059	M4
KDC-U2159B	M5	KDC-U2259R	M6	KDC-U2359G	M7	KDC-U259A	M3
KDC-U259B	C1	KDC-U259B	M0	KDC-U259G	H1	KDC-U259G	M9
KDC-U259R	M8	KDC-U359B	M2	KDC-U359W	M1		

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	B1	QUY158-075Y	IM BUS WIRE		1	
	B2	QUY158-075Y	IM BUS WIRE		1	
	B3	QUY158-075Y	IM BUS WIRE		1	
	B4	QUY158-050Y	IM BUS WIRE		1	
	B5	QUY158-150Y	IM BUS WIRE		1	
	B6	QUY158-150Y	IM BUS WIRE		1	
	B7	QUY158-200Y	IM BUS WIRE		1	
	B8	QUY158-075Y	IM BUS WIRE		1	
	B9	QUY158-050Y	IM BUS WIRE		1	
	B10	QUY158-050Y	IM BUS WIRE		1	
	B11	QUY158-050Y	IM BUS WIRE		1	
	B12	QUY158-175Y	IM BUS WIRE		1	
	B13	QUY158-050Y	IM BUS WIRE		1	
	CN502	QGF1040F1-24	CONNECTOR	FFC/FPC (1-24)	1	
	CN701	QGZ1102J1-20	CONNECTOR	(1-20)	1	
	CN901	QNZ0607-001	CAR CONNECTOR		1	
	J1	QNB0356-001	ANT TERMINAL		1	
	J321	QNN0874-001	PIN JACK		1	K0,K2,E1,E9,E8,E7,E2,E3,C1
	J321	QNN0868-001	PIN JACK		1	E5,K1,M4,M5,M6,M7,M3,M0,H1,M9,M8,M2,M1
	S701	QSW0648-001Z	TACT SWITCH		1	
	X1	QAX0969-001Z	CRYSTAL		1	
	X540	NAX1224-001X	CRYSTAL		1	
	X701	NAX1243-001X	CRYSTAL		1	
SW PWB ASSY (GEA10359-xxA) <SW>						
	IC661	BU97520KV-X	IC		1	
	IC681	SIR8630B6T	IR DETECT UNIT		1	K0,K2,K1,M4,M5,M6,M7,M3,C1,M0,H1,M9,M8,M2,M1
	Q602	LSCR523EB-X	TRANSISTOR		1	
	Q603	2SC2411-R-X	TRANSISTOR		1	K0,E5,K2,E8,E7,E3,K1,M4,M6,M3,M8,M1
	Q605	LSCR523EB-X	TRANSISTOR		1	
	Q606	LTA014EEB-X	DIGI TRANSISTOR		1	K0,K2,K1,M4,M5,M6,M7,M3,C1,M0,H1,M9,M8,M2,M1
	Q607	LTC014EEB-X	DIGI TRANSISTOR		1	K0,K2,K1,M4,M5,M6,M7,M3,C1,M0,H1,M9,M8,M2,M1
	D610	DZ2J051/M/-X	Z DIODE		1	
	D611	DZ2J051/M/-X	Z DIODE		1	
	D612	DZ2J062/M/-X	Z DIODE		1	
	D614	MBRX130-TP-X	SB DIODE		1	
	D615	MBRX130-TP-X	SB DIODE		1	
	D650	SML-310VT-X	LED		1	
	D651	LWY1SG/45/Z1-X	LED		1	
	D653	SML-D12P8W-X	LED		1	E6,E9,M7,H1,M9
	D653	SML-D12V8W-X	LED		1	K0,E5,K2,E8,E7,E3,K1,M6,M8
	D653	QSMR-C13/BCMN-X	LED		1	E1,E2,M5,C1,M0,M2
	D653	SML-D12D8W-X	LED		1	M4,M3
	D653	QSMW-C13S-X	LED		1	M1
	D654	SML-D12P8W-X	LED		1	E6,E9,M7,H1,M9
	D654	SML-D12V8W-X	LED		1	K0,E5,K2,E8,E7,E3,K1,M6,M8
	D654	QSMR-C13/BCMN-X	LED		1	E1,E2,M5,C1,M0,M2
	D654	SML-D12D8W-X	LED		1	M4,M3
	D654	QSMW-C13S-X	LED		1	M1
	D655	SML-D12P8W-X	LED		1	E6,E9,M7,H1,M9
	D655	SML-D12V8W-X	LED		1	K0,E5,K2,E8,E7,E3,K1,M6,M8
	D655	QSMR-C13/BCMN-X	LED		1	E1,E2,M5,C1,M0,M2
	D655	SML-D12D8W-X	LED		1	M4,M3
	D655	QSMW-C13S-X	LED		1	M1
	D657	SML-D12V8W-X	LED		1	K0,E5,K2,E8,E7,E3,K1,M6,M8
	D657	QSMR-C13/BCMN-X	LED		1	E1,E2,M5,C1,M0,M2
	D657	SML-D12D8W-X	LED		1	M4,M3
	D657	QSMW-C13S-X	LED		1	M1
	D659	SML-D13FW-X	LED		1	E6,E9,M7,H1,M9
	D659	SML-D12V8W-X	LED		1	K0,E5,K2,E8,E7,E3,K1,M6,M8
	D659	QSMR-C13/BCMN-X	LED		1	E1,E2,M5,C1,M0,M2
	D659	SML-D12D8W-X	LED		1	M4,M3
	D659	QSMW-C13S-X	LED		1	M1
	D660	SML-D13FW-X	LED		1	E6,E9,M7,H1,M9
	D660	SML-D12V8W-X	LED		1	K0,E5,K2,E8,E7,E3,K1,M6,M8
	D660	QSMR-C13/BCMN-X	LED		1	E1,E2,M5,C1,M0,M2
	D660	SML-D12D8W-X	LED		1	M4,M3
	D660	QSMW-C13S-X	LED		1	M1
	D661	SML-D13FW-X	LED		1	E6,E9,M7,H1,M9
	D661	SML-D12V8W-X	LED		1	K0,E5,K2,E8,E7,E3,K1,M6,M8
	D661	QSMR-C13/BCMN-X	LED		1	E1,E2,M5,C1,M0,M2
	D661	SML-D12D8W-X	LED		1	M4,M3

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KDC-100Q	E6	KDC-118U	K0	KDC-120RY	E5	KDC-158U	K2
KDC-161UB	E1	KDC-161UG	E9	KDC-161UR	E8	KDC-161URY	E7
KDC-261UB	E2	KDC-261UR	E3	KDC-MP158U	K1	KDC-U2059	M4
KDC-U2159B	M5	KDC-U2259R	M6	KDC-U2359G	M7	KDC-U259A	M3
KDC-U259B	C1	KDC-U259B	M0	KDC-U259G	H1	KDC-U259G	M9
KDC-U259R	M8	KDC-U359B	M2	KDC-U359W	M1		

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	D661	QSMW-C13S-X	LED		1	M1
	D667	SML-D12P8W-X	LED		1	E6,E9,M7,H1,M9
	D668	SML-D12P8W-X	LED		1	E6,E9,M7,H1,M9
	D669	SML-D12P8W-X	LED		1	E6,E9,M7,H1,M9
	D670	SML-D12P8W-X	LED		1	E6,E9,M7,H1,M9
	D671	SML-D12P8W-X	LED		1	E6,E9,M7,H1,M9
	D672	SML-D12P8W-X	LED		1	E6,E9,M7,H1,M9
	D673	SML-D12P8W-X	LED		1	E6,E9,M7,H1,M9
	D673	SML-D12V8W-X	LED		1	K0,E5,K2,E8,E7,E3,K1,M6,M8
	D673	QSMR-C13/BCMN-X	LED		1	E1,E2,M5,C1,M0,M2
	D673	SML-D12D8W-X	LED		1	M4,M3
	D673	QSMW-C13S-X	LED		1	M1
	D674	SML-D12P8W-X	LED		1	E6,E9,M7,H1,M9
	D674	SML-D12V8W-X	LED		1	K0,E5,K2,E8,E7,E3,K1,M6,M8
	D674	QSMR-C13/BCMN-X	LED		1	E1,E2,M5,C1,M0,M2
	D674	SML-D12D8W-X	LED		1	M4,M3
	D674	QSMW-C13S-X	LED		1	M1
	D678	SML-D13FW-X	LED		1	E6,E9,M7,H1,M9
	D678	SML-D12V8W-X	LED		1	K0,E5,K2,E8,E7,E3,K1,M6,M8
	D678	QSMR-C13/BCMN-X	LED		1	E1,E2,M5,C1,M0,M2
	D678	SML-D12D8W-X	LED		1	M4,M3
	D678	QSMW-C13S-X	LED		1	M1
	D679	SML-D13FW-X	LED		1	E6,E9,M7,H1,M9
	D679	SML-D12V8W-X	LED		1	K0,E5,K2,E8,E7,E3,K1,M6,M8
	D679	QSMR-C13/BCMN-X	LED		1	E1,E2,M5,C1,M0,M2
	D679	SML-D12D8W-X	LED		1	M4,M3
	D679	QSMW-C13S-X	LED		1	M1
	D680	SML-D12V8W-X	LED		1	K0,E5,K2,E8,E7,E3,K1,M6,M8
	D680	QSMR-C13/BCMN-X	LED		1	E1,E2,M5,C1,M0,M2
	D680	SML-D12D8W-X	LED		1	M4,M3
	D680	QSMW-C13S-X	LED		1	M1
	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	
	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	K0,K2,K1,M4,M5,M6,M7,M3,C1,M0,H1,M9,M8,M2,M1
	R601	RK73FB2B100J	MG RESISTOR	10Ω 1/8W J	1	
	R602	RK73FB2B4R7J	MG RESISTOR	4.7Ω 1/8W J	1	
	R603	RK73FB2B100J	MG RESISTOR	10Ω 1/8W J	1	
	R609	RK73GB2A471J	MG RESISTOR	470Ω 1/10W J	1	
	R612	RK73EB2E331J	MG RESISTOR	330Ω 1/4W J	1	
	R613	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R619	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R620	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R621	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R622	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R623	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R630	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R632	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R636	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	K0,K2,K1,M4,M5,M6,M7,M3,C1,M0,H1,M9,M8,M2,M1
	R638	RK73GB2A432J	MG RESISTOR	4.3kΩ 1/10W J	1	K0,E5,K2,E8,E7,E3,K1,M4,M6,M3,M8,M1
	R639	RK73GB2A682J	MG RESISTOR	6.8kΩ 1/10W J	1	
	R640	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R641	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	E6,E1,E9,E2,M5,M7,C1,M0,H1,M9,M2
	R643	RK73EB2E000J	MG RESISTOR	0Ω 1/4W J	1	
	R650	RK73GB2A000J	MG RESISTOR	0Ω 1/10W J	1	
	R653	RK73EB2E681J	MG RESISTOR	680Ω 1/4W J	1	E6,K0,E5,K2,E9,E8,E7,E3,K1,M4,M6,M7,M3,H1,M9,M8
	R653	RK73EB2E102J	MG RESISTOR	1kΩ 1/4W J	1	E1,E2,M5,C1,M0,M2
	R653	RK73EB2E122J	MG RESISTOR	1.2kΩ 1/4W J	1	M1
	R654	RK73EB2E511J	MG RESISTOR	510Ω 1/4W J	1	E6,E9,M7,H1,M9
	R654	RK73EB2E751J	MG RESISTOR	750Ω 1/4W J	1	K0,E5,K2,E8,E7,E3,K1,M4,M6,M3,M8
	R654	RK73EB2E821J	MG RESISTOR	820Ω 1/4W J	1	E1,E2,M5,C1,M0,M2,M1
	R655	RK73EB2E751J	MG RESISTOR	750Ω 1/4W J	1	K0,E5,K2,E8,E7,E3,K1,M4,M6,M3,M8
	R655	RK73EB2E821J	MG RESISTOR	820Ω 1/4W J	1	E1,E2,M5,C1,M0,M2,M1
	R657	RK73GB2A122J	MG RESISTOR	1.2kΩ 1/10W J	1	E6,K0,E5,K2,E9,E8,E7

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KDC-100Q	E6	KDC-118U	K0	KDC-120RY	E5	KDC-158U	K2
KDC-161UB	E1	KDC-161UG	E9	KDC-161UR	E8	KDC-161URY	E7
KDC-261UB	E2	KDC-261UR	E3	KDC-MP158U	K1	KDC-U2059	M4
KDC-U2159B	M5	KDC-U2259R	M6	KDC-U2359G	M7	KDC-U259A	M3
KDC-U259B	C1	KDC-U259B	M0	KDC-U259G	H1	KDC-U259G	M9
KDC-U259R	M8	KDC-U359B	M2	KDC-U359W	M1		

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
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						,E3,K1,M4,M6,M7,M3,H1,M9,M8
R657		RK73GB2A471J	MG RESISTOR	470Ω 1/10W J	1	E1,E2,M5,C1,M0,M2,M1
R658		RK73GB2A122J	MG RESISTOR	1.2kΩ 1/10W J	1	E6,K0,E5,K2,E9,E8,E7
						,E3,K1,M4,M6,M7,M3,H1,M9,M8
R658		RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	E1,E2,M5,C1,M0,M2,M1
R664		RK73EB2E561J	MG RESISTOR	560Ω 1/4W J	1	E6,E9,M7,H1,M9
R665		RK73EB2E561J	MG RESISTOR	560Ω 1/4W J	1	E6,E9,M7,H1,M9
R666		RK73EB2E621J	MG RESISTOR	620Ω 1/4W J	1	E6,E9,M7,H1,M9
R667		RK73EB2E561J	MG RESISTOR	560Ω 1/4W J	1	E6,E9,M7,H1,M9
R667		RK73EB2E911J	MG RESISTOR	910Ω 1/4W J	1	K0,E5,K2,E8,E7,E3,K1
						,M4,M6,M3,M8
R667		RK73EB2E821J	MG RESISTOR	820Ω 1/4W J	1	E1,E2,M5,C1,M0,M2,M1
R672		RK73FB2B511J	MG RESISTOR	510Ω 1/8W J	1	E6,K0,E5,K2,E9,E8,E7
						,E3,K1,M4,M6,M7,M3,H1,M9,M8
R672		RK73FB2B471J	MG RESISTOR	470Ω 1/8W J	1	E1,E2,M5,C1,M0,M2,M1
R673		RK73FB2B102J	MG RESISTOR	1kΩ 1/8W J	1	E6,K0,E5,K2,E1,E9,E8
						,E7,E2,E3,M4,M5,M6,M7,M3,C1,M0,H1,M9,M8,M2,M1
R674		RK73FB2B102J	MG RESISTOR	1kΩ 1/8W J	1	K1
R676		RK73EB2E561J	MG RESISTOR	560Ω 1/4W J	1	
R683		RK73GB2A911J	MG RESISTOR	910Ω 1/10W J	1	E6,K0,E5,K2,E9,E8,E7
						,E3,K1,M4,M6,M7,M3,H1,M9,M8
R684		RK73GB2A162J	MG RESISTOR	1.6kΩ 1/10W J	1	E6,K0,E5,K2,E9,E8,E7
						,E3,K1,M4,M6,M7,M3,H1,M9,M8
RA608		RK74GB1J000J	NET RESISTOR	0Ω 1/16W J	1	
RA614		RK74GB1J000J	NET RESISTOR	0Ω 1/16W J	1	
CN601		QGZ1102K3-20X	CONNECTOR	(1-20)	1	
CN603		QNZ1076-001	USB CONNECTOR		1	
EN601		QSW1279-001	ROTARY ENCODER		1	
J602		QNS0320-001	3.5 JACK		1	
LF691		NQR0704-001X	CHOKE COIL		1	

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

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	

CD PLAYER UNIT (X32-6680-00) IN CD MECHA <X32>

IC1	BD8266EFV-M-X	IC			1	
C26	CK730BW1C106K	C CAPACITOR	10uF 16V K		1	
C54	CK73GB1H104K	C CAPACITOR 2			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	E41-3488-05	CONNECTOR			1	
S1	S68-0931-05	PUSH SWITCH			1	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KDC-100Q	E6	KDC-118U	K0	KDC-120RY	E5	KDC-158U	K2
KDC-161UB	E1	KDC-161UG	E9	KDC-161UR	E8	KDC-161URY	E7
KDC-261UB	E2	KDC-261UR	E3	KDC-MP158U	K1	KDC-U2059	M4
KDC-U2159B	M5	KDC-U2259R	M6	KDC-U2359G	M7	KDC-U259A	M3
KDC-U259B	C1	KDC-U259B	M0	KDC-U259G	H1	KDC-U259G	M9
KDC-U259R	M8	KDC-U359B	M2	KDC-U359W	M1		

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	S2	S68-0931-05	PUSH SWITCH		1	
	S3	S68-0932-05	PUSH SWITCH		1	