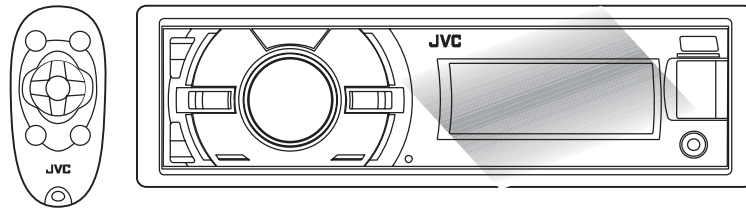


JVC

SERVICE MANUAL

DIGITAL MEDIA RECEIVER

**KD-X30E, KD-X30EE, KD-X30EN,
KD-X30EY, KD-X30U, KD-X30UN,
KD-X30UP, KD-X30UT**



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

SPECIFICATION

For EUROPE

AUDIO AMPLIFIER SECTION		
Maximum Power Output		50 W per channel
Continuous Power Output (RMS)		20 W per channel into 4Ω, 40 Hz to 20 000 Hz at less than 1% total harmonic distortion.
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Frequency Response		40 Hz to 20 000 Hz
Signal-to-Noise Ratio		70 dB
Line-Out or Subwoofer-Out Level/Impedance		2.5V/20 kΩ load (full scale)
Output Impedance		≤ 600Ω
TUNER SECTION		
FM	Frequency Range	87.5 MHz to 108.0 MHz FM : 87.5 MHz to 108.0 MHz (For Except EE) FM-LO : 65.0 MHz to 74.0 MHz (For Except EE)
	Usable Sensitivity	9.3 dBf (0.8 μV/75Ω)
	50 dB Quieting Sensitivity	16.3 dBf (1.8 μV/75Ω)
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	40 dB
AM	Frequency Range	MW : 531 kHz to 1 611 kHz LW : 153 kHz to 279 kHz
	Sensitivity/Selectivity	MW : 20 μV/40 dB, LW : 50 μV
USB SECTION		
USB Standard		USB 1.1, USB 2.0
Data Transfer Rate (Full Speed)		Max. 12 Mbps
Compatible Device		Mass storage class
Compatible File System		FAT 32/16/12
Playable Audio Format		MP3/WMA
Maximum Supply Current		DC 5 V --- 1 A
GENERAL		
Power Requirement (Operating Voltage)		DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to +40°C
Dimensions (W × H × D)	Installation Size	approx. 182 mm × 52 mm × 158 mm
	Panel Size	approx. 188 mm × 59 mm × 15 mm
Mass		0.8 kg (excluding accessories)

- Subject to change without notice.

SPECIFICATION

For ASIA

AUDIO AMPLIFIER SECTION		
Maximum Power Output		50 W per channel
Continuous Power Output (RMS)		20 W per channel into 4Ω, 40 Hz to 20 000 Hz at less than 1% total harmonic distortion.
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Frequency Response		40 Hz to 20 000 Hz
Signal-to-Noise Ratio		70 dB
Line-Out or Subwoofer-Out Level/Impedance		4.8V/20 kΩ load (full scale)
Output Impedance		≤ 600Ω
TUNER SECTION		
FM	Frequency Range	87.5 MHz to 108.0 MHz
	Usable Sensitivity	9.3 dBf (0.8 μV/75Ω)
	50 dB Quieting Sensitivity	16.3 dBf (1.8 μV/75Ω)
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	40 dB
AM	Frequency Range	531 kHz to 1 611 kHz
	Sensitivity/Selectivity	20 μV/40 dB
USB SECTION		
USB Standard		USB 1.1, USB 2.0
Data Transfer Rate (Full Speed)		Max. 12 Mbps
Compatible Device		Mass storage class
Compatible File System		FAT 32/16/12
Playable Audio Format		MP3/WMA
Maximum Supply Current		DC 5 V = 1 A
GENERAL		
Power Requirement (Operating Voltage)		DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0°C to +40°C
Dimensions (W × H × D)	Installation Size	approx. 182 mm × 52 mm × 158 mm
	Panel Size	approx. 188 mm × 59 mm × 15 mm
Mass		0.8 kg (excluding accessories)

- Subject to change without notice.

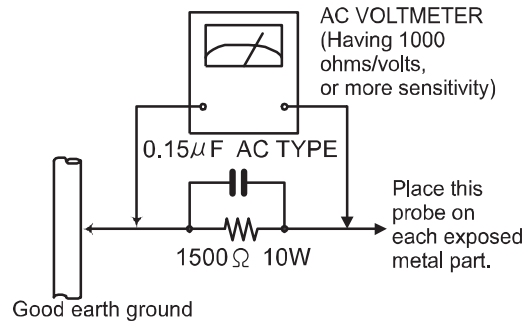
SECTION 1 PRECAUTION

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 (▲) 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 part 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, 1,000Ω per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF 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 performing repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (▣) and ICP (●) or identified by the "▲" mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer. (This regulation 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.

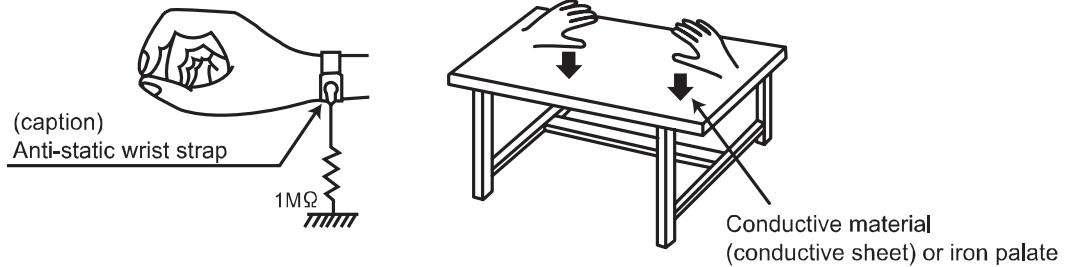
Be careful to use proper grounding in the area where repairs are being performed.

(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.



SECTION 2 SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3 DISASSEMBLY

3.1 Main body (Used model: KD-X30E)

3.1.1 Removing the Bottom chassis (See Fig.1)

- (1) Disengage the 7 hooks **a** engaging the Bottom chassis.
- (2) Slide the Bottom chassis backward to remove it.

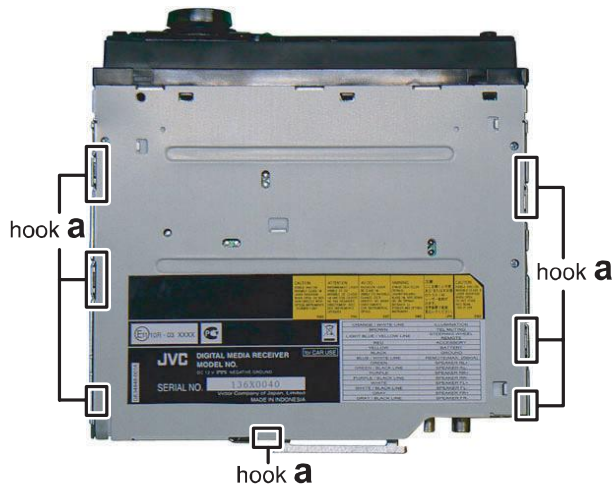


Fig.1

3.1.2 Removing the Front pane assy (See Fig.2)

- (1) Disengage the 4 hooks **b** engaging both sides of the Front pane assy.



Fig.2

3.1.3 Removing the Electric unit (See Fig.3, 4 and 5)

- (1) Remove the 1 screw **A** attaching the Rear bracket. (See Fig.3)

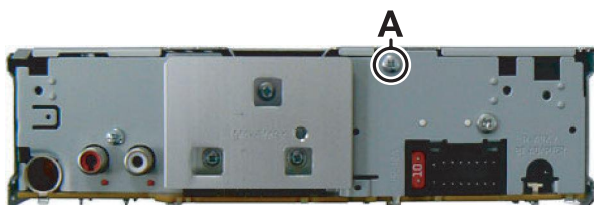


Fig.3

- (2) Remove the 2 screws **B** attaching both sides of the Top chassis. (See Fig.4)



Fig.4

- (3) Remove the 3 screws **C** attaching the Electric unit. (See Fig.5)

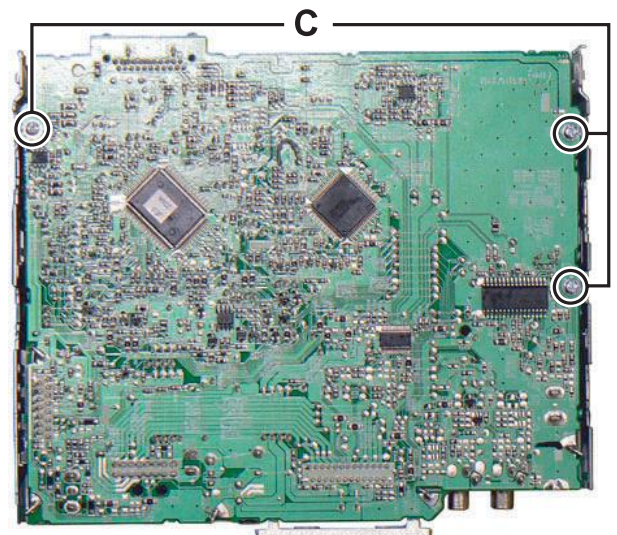


Fig.5

3.1.4 Removing the Switch unit (See Fig.6)

- (1) Remove the Volume knob.
- (2) Remove the 10 screws **D** attaching the Switch unit.

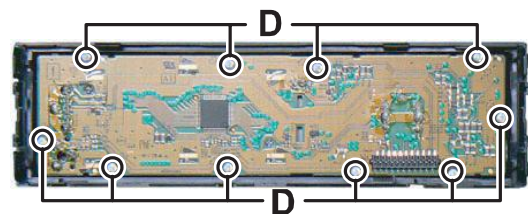


Fig.6

SECTION 4 ADJUSTMENT

4.1 Service Test mode

Default status immediately after the mode activation

Operating Key : [MENU] → [DOWN] (7sec)

4.1.1 Mode content

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

Display content	Detail
<div style="display: flex; justify-content: space-around; font-family: monospace; font-size: 1.2em;"> SRV TEST </div>	The display is released when another operation is executed.

4.1.2 Common operation mode for all sources.

■ means Press and hold.

Operation	Display content	Detail
EQ	CD error information display mode	Transit to CD error information display mode
MENU	Syscon version display	<div style="display: flex; justify-content: space-around; font-family: monospace; font-size: 1.2em;"> SYS #@@@ </div> # = Display of destination. J = USA R = EUROPE E = EASTERN-EUROPE U = OTHERS(e.g. ASIA) @@@ = Syscon version number
UP	Power ON duration display	<div style="display: flex; justify-content: space-around; font-family: monospace; font-size: 1.2em;"> PONTM 0HXX </div> 00 - 50 are displayed in "XX". For less than 1 hour, the display is indicated per 10 minutes.
		<div style="display: flex; justify-content: space-around; font-family: monospace; font-size: 1.2em;"> PONTM XXXXX </div> 00001 - 10922 are displayed in "XXXXX". MAX 10922 (hours).
DOWN	Disc operation duration display	<div style="display: flex; justify-content: space-around; font-family: monospace; font-size: 1.2em;"> CDTM 0HXX </div> 00 - 50 are displayed in "XX". For less than 1 hour, the display is indicated per 10 minutes.
		<div style="display: flex; justify-content: space-around; font-family: monospace; font-size: 1.2em;"> CDTM XXXXX </div> 00001 - 10922 are displayed in "XXXXX". MAX 10922 (hours).
BRIGHTNESS / TAG / iPod / SD	Disc eject number of times	<div style="display: flex; justify-content: space-around; font-family: monospace; font-size: 1.2em;"> EJCNT XXXXX </div> 00001 - 99999 are displayed in "XXXXX"
■ BRIGHTNESS / TAG / iPod / SD	Disc eject number of times clear	<div style="display: flex; justify-content: space-around; font-family: monospace; font-size: 1.2em;"> EJCNT 00000 </div> Clear Disc Eject number of times by pressing for 2 seconds when it is displayed.
⏪	Force Power OFF information display	<div style="display: flex; justify-content: space-around; font-family: monospace; font-size: 1.2em;"> POFF --- </div> No force Power OFF
		<div style="display: flex; justify-content: space-around; font-family: monospace; font-size: 1.2em;"> POFF PNL </div> Force Power OFF due to Syscon-Panel communication error. Will not show in JK12 Models.
■ ⏪	Force Power OFF information clear	<div style="display: flex; justify-content: space-around; font-family: monospace; font-size: 1.2em;"> POFF --- </div> Clear Force Power OFF information by pressing for 2 seconds when it is displayed. Will not show in JK12 Models.

4.1.3 CD error information display mode

Operation	Display content	Detail	
Move between DISP (Forward search) item 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. 00: No Error 04: TOC read Error 05: Unknown CD 06: Heat Error 0A: Update Error 0D: Hold Error 15: Unknown Disc 99: Mecha Error	
	CD load error information display	L O A D □ □ E R # X X Load error switch 1,2 # = History No. (1,2) XX: numbers of errors, "--" when there is none History No. 2 is un-used	
	CD eject error information display	E J E C T □ E R # X X Eject error switch 1,2,3,4 # =History No. (1,2,3,4) XX: numbers of errors, "--"when there is none History No.3 is un-used History No.1: Eject before SW1 is on. History No.2: Eject until SW1 and SW2 is on. History No.3: Eject between SW2 on and Eject end	
	CD time code error count information display (count skip)	C N T □ L O S E □ □ □	CD-DA error count number information
		C D D A □ □ □ □ X X	CD-DA error count numbers XX: numbers of errors and "--" when there is none Can only be checked via debugger by jap member
		C D R O M □ □ □ □ X X	CD-ROM (compressed file) error count numbers XX: numbers of errors and "--" when there is none Can only be checked via debugger by jap member
	CD time code error count information display (no count update)	C N T □ S T A Y □ □ □	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
	■EQ	CD error informationclear	CD error information all clear M E C H A □ E R 1 - - Clear CD error information by pressing for 2 seconds when it is displayed.
EQ	Mode release	CD error information display mode release Back to default status, All lights on	

4.2 DC error information mode

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

Operating Key : [MENU] → [UP] → [DC power supply turned ON]

4.2.1 Mode content

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

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

4.2.2 Mode operation specification

■ means Press and hold

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

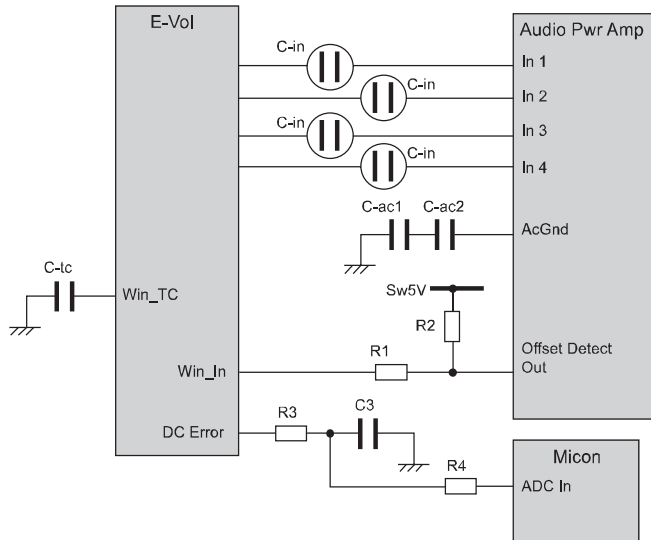
4.3 DC Offset error description

4.3.1 DC Offset detection circuit design

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

4.3.2 Possible causes of DC offset at speaker output lines

- (1) Mis-connection for Speaker output for example touch to car body or battery line.
- (2) Current leak of coupling capacitor for Power IC input.
- (3) Current leak of Ac-GND capacitor for Power IC Ac-GND.
- (4) Capacitor shorted of above parts due to foreign object.



4.3.5 Manipulate after detect DC Offset

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

4.3.6 How to clear the DC offset error recorded in EEPROM

Refer to "DC error information mode".

4.3.3 Type of checking

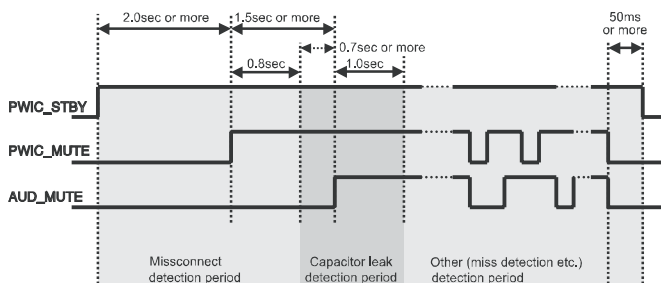
4.3.3.1 To detect DC Offset Error

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

4.3.3.2 To avoid mis-judge music as DC offset error

- Low frequency signal (17Hz or 20Hz) is more prone to cause mis-detection.
 - Play 17Hz (or 20Hz) signal and make sure micon will not detect and judge this as happen DC offset error.

4.3.4 Detection Timing chart



SECTION 5 TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.



JVC

JVC KENWOOD Corporation
Car Electronics Business Group 2967-3, Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525, Japan

(No.MA507<Rev.002>)

Printed in Japan
VSE



PARTS LIST

DIGITAL MEDIA RECEIVER

KD-X30E
KD-X30EY

KD-X30EE
KD-X30U
KD-X30UP

KD-X30EN
KD-X30UN
KD-X30UT

■ PRECAUTIONS ON SCHEMATIC DIAGRAMS

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

■ PRECAUTIONS ON PARTS LIST

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

■ PRECAUTIONS ON SERVICE

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

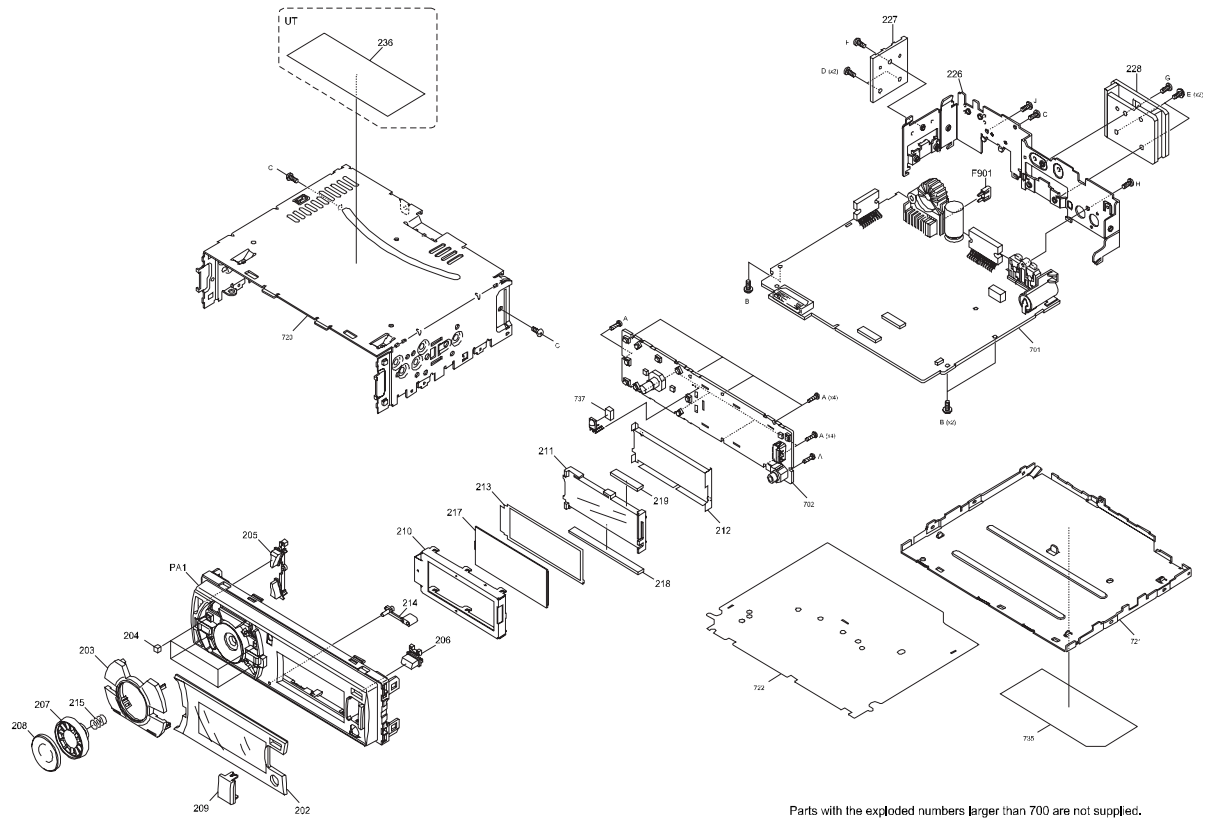
1. Do not touch the LIVE GND, or do not touch the LIVE GND and the ISOLATED (NEUTRAL) GND at the same time. It may cause an electric shock.
Before pulling out the chassis or other parts, make sure to pull out the power cord from the wall outlet first.
2. Do not short circuit between the LIVE GND and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

■ DEVIATION TOLERANCE RANGE

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

EXPLODED VIEW (UNIT)

Block No.M1MM



No.MA507

created date:2011-12-06

(No.MA507<Rev.002>)/3/13

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-X30E	A	KD-X30EE	B	KD-X30EN	C	KD-X30EY	D
KD-X30U	E	KD-X30UN	F	KD-X30UP	G	KD-X30UT	H

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
------	------------	-----------	------------	-------------	-----	-------

EXPLODED VIEW (UNIT) <M1MM>

△	F901	QMFZ064-100-J1	CARTRIDGE FUSE	10A	1	
	PA1	GE34791-001A	F. PANEL ASSY		1	
	A	QYSDSF2008ZA	TAP SCREW	M2 x 8mm	10	
	B	GE40377-002A	SCREW		3	
	C	QYSDST2606ZA	TAP SCREW	M2.6 x 6mm	3	
	D	QYSDST2610ZA	TAP SCREW	M2.6 x 10mm	2	
	E	GE40377-005A	SPECIAL SCREW		2	
	F	QYSDST2608ZA	TAP SCREW	M2.6 x 8mm	1	
	G	QYSDST2610ZA	TAP SCREW	M2.6 x 10mm	1	
	H	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm	1	
	J	QYSDSG3006ZA	TAP SCREW	M3 x 6mm	1	
	202	GE20302-001A	FINDER		1	
	203	GE34779-004A	MENU BUTTON		1	A,B,C,D
	203	GE34779-003A	MENU BUTTON		1	E,F,G,H
	204	GE40466-011A	SPACER		4	
	205	GE34780-001A	UP DOWN BUTTON		1	
	206	GE34783-001A	DISP. BUTTON		1	
	207	GE34784-001A	VOL KNOB		1	
	208	GE34785-001A	VOL KNOB TOP		1	
	209	GE34786-001A	USB DOOR COVER		1	
	210	GE34789-001A	LCD CASE		1	
	211	GE34790-001A	LCD LENS		1	
	212	GE40570-001A	REFLECTION SHT		1	
	213	GE40571-001A	LIGHTING SHEET		1	
	214	GE34512-001A	RESET BUTTON		1	
	215	GE40127-005A	KNOB SPRING		1	
	217	QLD0698-001	LCD MODULE		1	
	218	QNZ1079-001	RUBBER CONNECTOR		1	
	219	QNZ1080-001	RUBBER CONNECTOR		1	
	226	GE20299-002A	REAR BRACKET		1	
	227	GE40499-002A	REG HEAT SINK		1	
	228	GE34070-003A	HEAT SINK		1	
	236	GE33884-021A	UT LABEL		1	H

ELECTORIC UNIT <01>

△	IC1	TEF6614TV1S4-X	IC		1	
	IC161	TDA7718B-X	IC		1	A,B,C,D
	IC161	TDA7720-X	IC		1	E,F,G,H
△	IC301	TB2931HQ	IC		1	
	IC530	XC6213B332NG-X	IC		1	
	IC531	XC6213B152NG-X	IC		1	
	IC532	XC6213B152NG-X	IC		1	
△	IC540	JCV8022	IC		1	
	IC580	NJM4565E-X	IC		1	
△	IC701	JES224C	IC		1	
	IC702	XC6120N282NG-X	IC		1	
	IC771	BR24T02FJ-W-X	IC		1	
	IC771 or	R1EX24002ASAA-X	IC		1	
△	IC901	LV5680P	IC		1	
	IC931	XC6213B332NG-X	IC		1	
	IC981	BD9673EFJ-X	IC		1	
	Q321	IMX9-W	PAIR TRANSISTOR		1	
	Q780	LTA024EUB-X	DIGI TRANSISTOR		1	
	Q780 or	DRA5124E-X	DIGI TRANSISTOR		1	
	Q781 or	DRC5124E-X	DIGI TRANSISTOR		1	
	Q782	LTA024EUB-X	DIGI TRANSISTOR		1	
	Q782 or	DRA5124E-X	DIGI TRANSISTOR		1	
	Q881 or	DRC5114E-X	DIGI TRANSISTOR		1	
	Q951	2SA812A/5-6/-X	TRANSISTOR		1	
	Q951 or	ISA1530AC1/QR/X	TRANSISTOR		1	
	Q952 or	DRC5144E-X	DIGI TRANSISTOR		1	
	Q970	2SC1623A/5-6/-X	TRANSISTOR		1	
	Q970 or	2SC3928A/QR/-X	TRANSISTOR		1	
	Q971	2SC1623A/5-6/-X	TRANSISTOR		1	
	Q971 or	2SC3928A/QR/-X	TRANSISTOR		1	
	D9	NAF0029-001X	DIODE		1	
	D100	RKZ6.2B2KG-X	Z DIODE		1	
	D100 or	DZ2J062/M/-X	Z DIODE		1	
	D101	RKZ6.2B2KG-X	Z DIODE		1	
	D101 or	DZ2J062/M/-X	Z DIODE		1	
	D110	RKZ6.2B2KG-X	Z DIODE		1	
	D110 or	DZ2J062/M/-X	Z DIODE		1	
	D111	RKZ6.2B2KG-X	Z DIODE		1	
	D111 or	DZ2J062/M/-X	Z DIODE		1	
	D120	RKZ6.2B2KG-X	Z DIODE		1	
	D120 or	DZ2J062/M/-X	Z DIODE		1	
	D121	RKZ6.2B2KG-X	Z DIODE		1	
	D121 or	DZ2J062/M/-X	Z DIODE		1	
	D130	RKZ6.2B2KG-X	Z DIODE		1	
	D130 or	DZ2J062/M/-X	Z DIODE		1	
	D131	RKZ6.2B2KG-X	Z DIODE		1	
	D131 or	DZ2J062/M/-X	Z DIODE		1	
	D321	BAW56-TP-X	SI DIODE		1	
	D321 or	MC2836-X	DIODE		1	
	D704	RKZ6.2B2KG-X	Z DIODE		1	A,B,C,D
	D704 or	DZ2J062/M/-X	Z DIODE		1	A,B,C,D
	D780	BAW56-TP-X	SI DIODE		1	
	D780 or	MC2836-X	DIODE		1	
	D781	BAW56-TP-X	SI DIODE		1	
	D781 or	MC2836-X	DIODE		1	
	D782	RKS801KF-X	SI DIODE		1	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-X30E	A	KD-X30EE	B	KD-X30EN	C	KD-X30EY	D
KD-X30U	E	KD-X30UN	F	KD-X30UP	G	KD-X30UT	H

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	D782	or DA2J101-X	SI DIODE		1	
	D783	BAW56-TP-X	SI DIODE		1	
	D783	or MC2836-X	DIODE		1	
	D851	MBRX130-TP-X	SB DIODE		1	E,F,G,H
	D852	MBRX130-TP-X	SB DIODE		1	E,F,G,H
	D891	BAW56-TP-X	SI DIODE		1	
	D891	or MC2836-X	DIODE		1	
△	D901	1N5401-BPC04	SI DIODE		1	
	D902	MBRX130-TP-X	SB DIODE		1	
	D941	MBRX130-TP-X	SB DIODE		1	
	D942	MBRX130-TP-X	SB DIODE		1	
	D970	RKZ6.8B2KG-X	Z DIODE		1	
	D970	or DZ2J068/M/-X	Z DIODE		1	
	D971	RKZ6.8B2KG-X	Z DIODE		1	
	D971	or DZ2J068/M/-X	Z DIODE		1	
	D981	DB22306-X	SB DIODE		1	
	C1	NCB31HK-102X	C CAPACITOR	1000pF 50V K	1	
	C2	NDC31HJ-7R0X	C CAPACITOR	7pF 50V J	1	
	C3	NCB31HK-102X	C CAPACITOR	1000pF 50V K	1	
	C4	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	1	
	C5	NDC31HJ-150X	C CAPACITOR	15pF 50V J	1	
	C6	NDC31HJ-6R0X	C CAPACITOR	6pF 50V J	1	
	C7	NDC31HJ-270X	C CAPACITOR	27pF 50V J	1	
	C10	NCB21CK-105X	C CAPACITOR	1uF 16V K	1	
	C11	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C12	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C13	NCB21CK-105X	C CAPACITOR	1uF 16V K	1	
	C14	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	1	
	C15	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C16	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C17	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C18	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C19	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C20	NDC31HJ-120X	C CAPACITOR	12pF 50V J	1	
	C21	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C22	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C23	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C24	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	1	
	C26	NDC31HJ-471X	C CAPACITOR	470pF 50V J	1	
	C27	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J	1	
	C101	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C102	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C111	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C112	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C121	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C122	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C131	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C132	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C160	QEKJ1CM-106Z-S	E CAPACITOR	10uF 16V M	1	
	C161	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C162	QTE1V67-475Z	E CAPACITOR	4.7uF 35V	1	
	C169	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C170	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C171	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C172	QEKJ1CM-107Z-S	E CAPACITOR	100uF 16V M	1	
	C173	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C174	QTE1V67-475Z	E CAPACITOR	4.7uF 35V	1	
	C177	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C301	QTE1C66-474Z	E CAPACITOR	0.47uF 16V	1	
	C302	QTE1C66-474Z	E CAPACITOR	0.47uF 16V	1	
	C303	QTE1C66-474Z	E CAPACITOR	0.47uF 16V	1	
	C304	QTE1C66-474Z	E CAPACITOR	0.47uF 16V	1	
	C305	NCB21CK-474X-A	C CAPACITOR	0.47uF 16V K	1	
	C306	NCB21CK-474X-A	C CAPACITOR	0.47uF 16V K	1	
	C307	NCB21CK-474X-A	C CAPACITOR	0.47uF 16V K	1	
	C308	NCB21CK-474X-A	C CAPACITOR	0.47uF 16V K	1	
	C309	QEKJ1CM-226Z-S	E CAPACITOR	22uF 16V M	1	
	C310	QERF1CM-106Z-E	E CAPACITOR	10uF 16V M	1	
	C311	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	1	
	C312	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	1	
	C313	NCB21AK-105X-A	C CAPACITOR	1uF 10V K	1	
	C314	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C315	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C320	QEKJ1HM-106Z	E CAPACITOR	10uF 50V M	1	
	C321	NDC31HJ-101X	C CAPACITOR	100pF 50V J	1	
	C330	QEKJ1HM-106Z	E CAPACITOR	10uF 50V M	1	
	C331	NDC31HJ-101X	C CAPACITOR	100pF 50V J	1	
	C368	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C400	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C406	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C407	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C408	NCB11HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C409	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C424	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C425	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C426	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C530	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C531	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C532	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C533	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-X30E	A	KD-X30EE	B	KD-X30EN	C	KD-X30EY	D
KD-X30U	E	KD-X30UN	F	KD-X30UP	G	KD-X30UT	H

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	C534	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C535	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C536	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C540	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C541	NCB31HK-222X	C CAPACITOR	2200pF 50V K	1	
	C542	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C543	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C558	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C559	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C561	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	
	C562	NCB20JK-106X	C CAPACITOR	10uF 6.3V K	1	
	C564	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C565	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C566	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C567	NCB31AK-105X	C CAPACITOR	1uF 10V K	1	
	C568	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C569	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C570	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C584	QERF1EM-475Z-E	E CAPACITOR	4.7uF 25V M	1	
	C585	NDC31HJ-680X	C CAPACITOR	68pF 50V J	1	
	C586	QERF1EM-475Z-E	E CAPACITOR	4.7uF 25V M	1	
	C587	NDC31HJ-680X	C CAPACITOR	68pF 50V J	1	
	C588	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C590	QEKJ0JM-476Z-S	E CAPACITOR	47uF 6.3V M	1	
	C591	QEKJ0JM-476Z-S	E CAPACITOR	47uF 6.3V M	1	
	C594	NDC31HJ-680X	C CAPACITOR	68pF 50V J	1	
	C595	NDC31HJ-680X	C CAPACITOR	68pF 50V J	1	
	C701	NDC31HJ-100X	C CAPACITOR	10pF 50V J	1	
	C702	NDC31HJ-100X	C CAPACITOR	10pF 50V J	1	
	C703	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C704	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	1	
	C705	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C708	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C712	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C713	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C714	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C715	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C716	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C717	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C718	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	1	
	C719	NCB31CK-105X	C CAPACITOR	1uF 16V K	1	
	C720	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C722	NCB10JK-106X-A	C CAPACITOR	10uF 6.3V K	1	
	C723	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	1	
	C724	NDC31HJ-180X	C CAPACITOR	18pF 50V J	1	
	C725	NDC31HJ-150X	C CAPACITOR	15pF 50V J	1	
	C728	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	C731	NCB21CK-104X	C CAPACITOR	0.1uF 16V K	1	
	C733	NCB10JK-106X-A	C CAPACITOR	10uF 6.3V K	1	
	C794	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J	1	
	C881	QERF1CM-226Z	E CAPACITOR	22uF 16V M	1	
	C891	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C901	QEZ0937-278	E CAPACITOR	2700uF	1	
	C902	NCB31EK-474X	C CAPACITOR	0.47uF 25V K	1	
	C903	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	1	
	C904	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	1	
	C905	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C906	QEKJ1CM-107Z	E CAPACITOR	100uF 16V M	1	
	C907	QERF0JM-337Z	E CAPACITOR	330uF 6.3V M	1	
	C908	NCJ11EK-106X-R	C CAPACITOR	10uF 25V	1	E,F,G,H
	C910	QEKJ1EM-106Z	E CAPACITOR	10uF 25V M	1	
	C912	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C913	QERF0JM-337Z	E CAPACITOR	330uF 6.3V M	1	
	C931	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C932	QERF0JM-337Z	E CAPACITOR	330uF 6.3V M	1	
	C933	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C941	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C954	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C963	QERF1AM-107Z	E CAPACITOR	100uF 10V M	1	
	C981	NCB10JK-106X-A	C CAPACITOR	10uF 6.3V K	1	
	C983	NCB31HK-682X	C CAPACITOR	6800pF 50V K	1	
	C984	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1	
	C985	NCJ11EK-106X-R	C CAPACITOR	10uF 25V	1	
	C987	NCB10JK-106X-A	C CAPACITOR	10uF 6.3V K	1	
	C989	NCJ11EK-106X-R	C CAPACITOR	10uF 25V	1	
	C990	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	1	
	C993	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1	
	R1	NRSA63J-684X	MG RESISTOR	680kΩ 1/16W J	1	
	R2	NRSA63J-684X	MG RESISTOR	680kΩ 1/16W J	1	
	R4	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R6	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	1	
	R7	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	1	
	R8	NRS181J-220X	MG RESISTOR	22Ω 1/8W J	1	
	R9	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R100	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R101	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R102	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R110	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R111	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R112	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	1	
	R120	NQR0007-002X	FERRITE BEADS		1	
	R121	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-X30E	A	KD-X30EE	B	KD-X30EN	C	KD-X30EY	D
KD-X30U	E	KD-X30UN	F	KD-X30UP	G	KD-X30UT	H

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	R122	NQR0007-002X	FERRITE BEADS		1	
	R130	NQR0007-002X	FERRITE BEADS		1	
	R131	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R132	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	1	
	R150	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D
	R151	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	E,F,G,H
	R152	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D
	R160	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
△	R161	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R162	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R163	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R165	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R167	NRS181J-222X	MG RESISTOR	2.2kΩ 1/8W J	1	
	R168	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	A,B,C,D
	R169	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	E,F,G,H
	R302	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R304	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R310	NRS181J-100X	MG RESISTOR	10Ω 1/8W J	1	A,B,C,D
	R310	NRS181J-751X	MG RESISTOR	750Ω 1/8W J	1	E,F,G,H
	R320	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	1	
	R321	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R322	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	1	
	R323	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R330	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	1	
	R331	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	
	R332	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	1	
	R333	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R335	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R357	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R358	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R361	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D
	R361	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	1	E,F,G,H
	R362	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D
	R362	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	1	E,F,G,H
	R363	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D
	R363	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	1	E,F,G,H
	R364	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	A,B,C,D
	R364	NRSA63J-512X	MG RESISTOR	5.1kΩ 1/16W J	1	E,F,G,H
	R365	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	1	E,F,G,H
	R366	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	1	E,F,G,H
	R367	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	1	E,F,G,H
	R368	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	1	E,F,G,H
	R374	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R376	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R400	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R401	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R402	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R403	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R404	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R405	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R406	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R407	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R408	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	1	
	R409	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R410	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R411	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R412	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R413	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R414	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R415	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R417	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R418	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R419	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R420	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R421	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R422	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R423	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R424	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R427	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R428	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R429	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R430	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R431	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R432	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R433	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R434	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R435	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R438	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R439	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R440	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R441	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R443	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R444	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R447	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R450	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R452	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R454	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R456	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R457	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-X30E	A	KD-X30EE	B	KD-X30EN	C	KD-X30EY	D
KD-X30U	E	KD-X30UN	F	KD-X30UP	G	KD-X30UT	H

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	R461	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R462	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R465	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R467	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R471	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R472	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R475	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R477	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R481	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R485	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R488	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R489	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R495	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R498	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R530	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R540	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	1	
	R553	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R554	NRSA02J-4R7X	MG RESISTOR	4.7Ω 1/10W J	1	
	R555	NRSA02J-4R7X	MG RESISTOR	4.7Ω 1/10W J	1	
	R556	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	R557	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	1	
	R558	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	1	
	R559	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R560	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R561	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R562	NRS181J-101X	MG RESISTOR	100Ω 1/8W J	1	
	R563	NRS181J-101X	MG RESISTOR	100Ω 1/8W J	1	
	R564	NRS181J-101X	MG RESISTOR	100Ω 1/8W J	1	
	R565	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R566	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R567	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R568	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R569	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R570	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R571	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R572	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	1	
	R579	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R581	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R582	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	1	
	R583	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R584	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R587	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R588	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	1	
	R589	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R590	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R592	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	1	
	R593	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	1	
	R594	NRS181J-100X	MG RESISTOR	10Ω 1/8W J	1	
	R597	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R598	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R599	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R700	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R701	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	A,B,C,D
	R701	NRSA63J-364X	MG RESISTOR	360kΩ 1/16W J	1	E,F,G,H
	R702	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	1	
	R703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R706	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R708	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R712	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1	
	R718	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	1	
	R720	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R721	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	1	
	R724	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R725	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R727	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R730	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R731	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R732	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R738	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	1	
	R739	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	1	
	R740	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R741	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R742	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R743	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R744	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R746	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R747	NRS181J-243X	MG RESISTOR	24kΩ 1/8W J	1	
	R749	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	1	
	R750	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	1	
	R753	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	1	
	R754	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	1	
	R757	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	1	
	R758	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	1	
	R762	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R763	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R764	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	1	A,C,D
	R764	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	1	B
	R764	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	1	E,F,G,H
	R766	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	1	A,C,D
	R766	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	1	B

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-X30E	A	KD-X30EE	B	KD-X30EN	C	KD-X30EY	D
KD-X30U	E	KD-X30UN	F	KD-X30UP	G	KD-X30UT	H

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	R766	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	1	E,F,G,H
	R767	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R768	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R770	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R771	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R772	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	1	
	R773	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R774	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R775	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	1	
	R776	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	1	
	R777	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	A,B,C,D
	R778	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	1	
	R779	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	1	
	R780	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R781	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	1	
	R782	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1	
	R783	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	1	
	R784	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R785	NRS181J-273X	MG RESISTOR	27kΩ 1/8W J	1	
	R786	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R789	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	1	
	R790	NRSA63J-270X	MG RESISTOR	27Ω 1/16W J	1	
	R794	NRSA63J-200X	MG RESISTOR	20Ω 1/16W J	1	
	R795	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R796	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R851	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	E,F,G,H
	R881	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	1	
	R882	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	1	
	R891	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R892	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	1	
	R893	NRS181J-123X	MG RESISTOR	12kΩ 1/8W J	1	
	R894	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R901	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	1	
	R902	QRE141J-392Y	C RESISTOR	3.9kΩ 1/4W J	1	
	R906	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	1	
	R907	NRSA63J-155X	MG RESISTOR	1.5MΩ 1/16W J	1	
	R908	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R909	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	1	
	R941	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	1	
	R951	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1	
	R952	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	1	
	R962	NRS181J-271X	MG RESISTOR	270Ω 1/8W J	1	
	R965	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	1	
	R970	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R971	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R972	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1	
	R973	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	1	
	R974	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	1	
	R975	NRSA02J-473X	MG RESISTOR	47kΩ 1/10W J	1	
	R976	NRSA02J-683X	MG RESISTOR	68kΩ 1/10W J	1	
	R981	NRSA63D-913X	MG RESISTOR	91kΩ 1/16W D	1	
	R982	NRSA63D-273X	MG RESISTOR	27kΩ 1/16W D	1	
	R983	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	1	
	R986	NRSA63D-114X	MG RESISTOR	110kΩ 1/16W D	1	
	L1	NQL093K-R47X	P COIL	0.47uH K	1	
	L2	NQL093K-1R8X	P COIL	1.8uH K	1	
	L3	NQL093K-R27X	P COIL	0.27uH K	1	
	L4	QQR1872-001	RF COIL		1	
	L5	QQL244J-561Z	COIL	560uH J	1	
	L6	QQL244J-561Z	COIL	560uH J	1	
	L7	NQL79GM-4R7X	COIL	4.7uH M	1	
	L8	NQL093K-4R7X	P COIL	4.7uH K	1	
	L9	NQL093K-R47X	P COIL	0.47uH K	1	
	L11	NQR0251-002X	FERRITE BEADS		1	
	L12	NQR0251-002X	FERRITE BEADS		1	
	L531	NQR0502-001X	FERRITE BEADS		1	
	L561	NQR0502-001X	FERRITE BEADS		1	
	L562	NQR0502-001X	FERRITE BEADS		1	
	L563	NQR0502-001X	FERRITE BEADS		1	
	L564	NQR0502-001X	FERRITE BEADS		1	
	L565	NQR0502-001X	FERRITE BEADS		1	
	L701	NQL79GM-4R7X	COIL	4.7uH M	1	
	L702	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	1	
	L703	NQR0502-001X	FERRITE BEADS		1	
	L901	QQR1884-001	CHOKE COIL		1	
	L981	QQL92AK-220Z	COIL	22uH K	1	
	L982	NQLH25M-4R7X	COIL	4.7uH M	1	
	CN701	QGB1004K1-22	CONNECTOR	B-B (1-22)	1	
	CN901	QNZ0607-001	CAR CONNECTOR		1	
	J1	QNB0358-001	ANT TERMINAL		1	
	J1	or	ANT TERMINAL		1	
	J120	QNS0307-001	3.5 JACK		1	
	J321	QNN0874-001	PIN JACK		1	
	X1	QAX0952-001Z	CRYSTAL		1	
	X540	QAX0929-001Z	C RESONATOR		1	
	X701	QAX0966-001Z	CRYSTAL		1	
	X702	QAX0401-001	CRYSTAL	32.768KHz	1	
	SWITCH UNIT	<02>				
	IC661	PT16580-LQ	IC		1	

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-X30E	A	KD-X30EE	B	KD-X30EN	C	KD-X30EY	D
KD-X30U	E	KD-X30UN	F	KD-X30UP	G	KD-X30UT	H

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
		IC681	KSM-2003TN5B	IR DETECT UNIT	1	
		Q632	2SC6046-X	TRANSISTOR	1	
	or	Q633	DSC5001/RS/-X	TRANSISTOR	1	
		D620	KLB-16B-X	LED	1	
		D621	KLB-16B-X	LED	1	
		D622	KLB-16B-X	LED	1	
		D623	KLB-16B-X	LED	1	
		D624	KLB-16B-X	LED	1	
		D625	KLB-16B-X	LED	1	
		D626	KLB-16B-X	LED	1	
		D627	KLB-16B-X	LED	1	
		D628	KLB-16B-X	LED	1	
		D629	KLB-16B-X	LED	1	
		D630	KLB-16B-X	LED	1	
		D631	KLB-16B-X	LED	1	
		D632	KLB-16B-X	LED	1	
		D633	KLB-16B-X	LED	1	
		D634	KLB-16B-X	LED	1	
		D635	KLB-16B-X	LED	1	
		D636	KLB-16B-X	LED	1	
		D637	KLB-16B-X	LED	1	
		D638	KLB-16B-X	LED	1	
		D639	KLB-16B-X	LED	1	
		D640	KLB-16B-X	LED	1	
		D641	KLB-16B-X	LED	1	
		D642	KLB-16B-X	LED	1	
		D643	KLB-16B-X	LED	1	
		D644	KLB-16B-X	LED	1	
		D660	RKZ5.1B2KG-X	SB DIODE	1	
	or	D660	DZ2J051/M/-X	Z DIODE	1	
		D681	RKZ3.3B2KG-X	Z DIODE	1	
	or	D681	DZ2J033/M/-X	Z DIODE	1	
		D691	RKZ5.1B2KG-X	SB DIODE	1	
	or	D691	DZ2J051/M/-X	Z DIODE	1	
		D692	RKZ5.1B2KG-X	SB DIODE	1	
	or	D692	DZ2J051/M/-X	Z DIODE	1	
		C661	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	1
		C662	NCB21CK-105X	C CAPACITOR	1uF 16V K	1
		C663	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1
		C664	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1
		C665	NCB31CK-105X	C CAPACITOR	1uF 16V K	1
		C671	NCB31HK-472X	C CAPACITOR	4700pF 50V K	1
		C672	NCB31HK-472X	C CAPACITOR	4700pF 50V K	1
		C679	NDC31HJ-270X	C CAPACITOR	27pF 50V J	1
		C680	NDC31HJ-270X	C CAPACITOR	27pF 50V J	1
		C682	NCB31CK-104X	C CAPACITOR	0.1uF 16V	1
		C691	NCJ11EK-106X-R	C CAPACITOR	10uF 25V	1
		R601	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1
		R602	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1
		R603	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	1
		R604	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	1
		R605	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	1
		R606	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1
		R607	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	1
		R608	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	1
		R609	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	1
		R610	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	1
		R611	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1
		R620	NRS181J-561X	MG RESISTOR	560Ω 1/8W J	1
		R622	NRS181J-561X	MG RESISTOR	560Ω 1/8W J	1
		R624	NRS181J-561X	MG RESISTOR	560Ω 1/8W J	1
		R628	NRS181J-911X	MG RESISTOR	910Ω 1/8W J	1
		R630	NRS181J-561X	MG RESISTOR	560Ω 1/8W J	1
		R634	NRS181J-561X	MG RESISTOR	560Ω 1/8W J	1
		R636	NRS181J-561X	MG RESISTOR	560Ω 1/8W J	1
		R638	NRS181J-561X	MG RESISTOR	560Ω 1/8W J	1
		R640	NRS181J-561X	MG RESISTOR	560Ω 1/8W J	1
		R642	NRS181J-561X	MG RESISTOR	560Ω 1/8W J	1
		R644	NRS181J-561X	MG RESISTOR	560Ω 1/8W J	1
		R646	NRS181J-911X	MG RESISTOR	910Ω 1/8W J	1
		R648	NRS181J-621X	MG RESISTOR	620Ω 1/8W J	1
		R649	NRS181J-621X	MG RESISTOR	620Ω 1/8W J	1
		R651	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	1
		R652	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	1
		R653	NRS181J-561X	MG RESISTOR	560Ω 1/8W J	1
		R660	NRS181J-471X	MG RESISTOR	470Ω 1/8W J	1
		R661	NRS181J-471X	MG RESISTOR	470Ω 1/8W J	1
		R662	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1
		R663	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1
		R664	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	1
		R665	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1
		R666	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1
		R667	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	1
		R676	NRS181J-2R2X	MG RESISTOR	2.2Ω 1/8W J	1
		R678	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	1
		R681	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	1
		R691	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	1
		L670	NQR0007-002X	FERRITE BEADS	1	
		L673	NQR0007-002X	FERRITE BEADS	1	
		L674	NQR0007-002X	FERRITE BEADS	1	
		BL601	LW812-001A-X	LED	1	
		BL602	LW812-001A-X	LED	1	

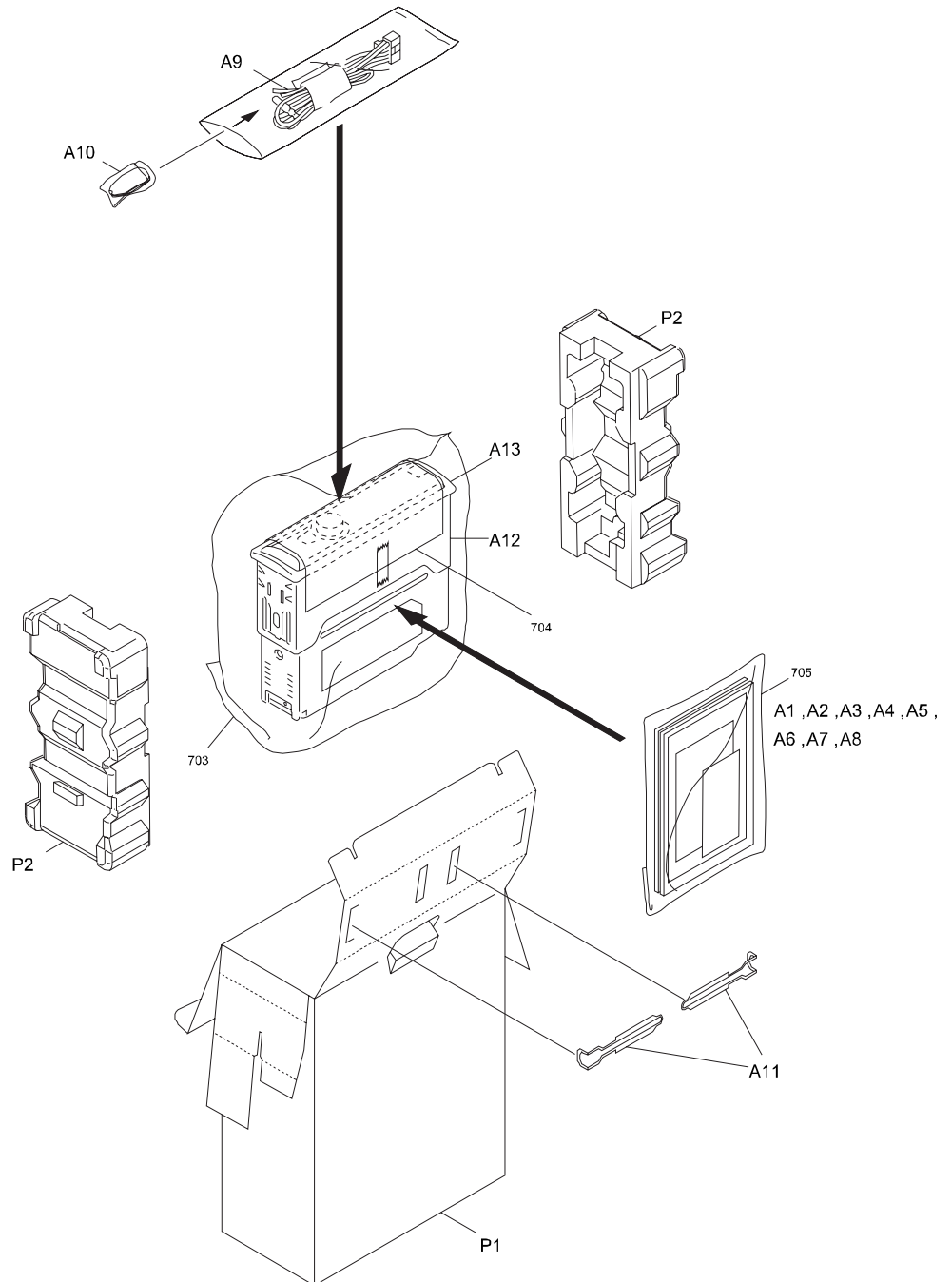
MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-X30E	A	KD-X30EE	B	KD-X30EN	C	KD-X30EY	D
KD-X30U	E	KD-X30UN	F	KD-X30UP	G	KD-X30UT	H

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	CN601	QGB1004J2-22X	CONNECTOR	B-B (1-22)	1	
	CN603	QNZ1076-001	USB CONNECTOR		1	
	CN603 or	QNZ1057-001	USB CONNECTOR		1	
	J601	QNS0299-001	3.5 JACK		1	
	JS601	QSW1231-002	ROTARY ENCODER		1	
	LF691	NQR0682-001X	CHOKE COIL		1	
	S601	NSW0246-001X	TACT SWITCH		1	
	S602	NSW0246-001X	TACT SWITCH		1	
	S603	NSW0246-001X	TACT SWITCH		1	
	S604	NSW0246-001X	TACT SWITCH		1	
	S605	NSW0246-001X	TACT SWITCH		1	
	S606	NSW0246-001X	TACT SWITCH		1	
	S607	NSW0246-001X	TACT SWITCH		1	
	S608	NSW0246-001X	TACT SWITCH		1	
	S609	NSW0246-001X	TACT SWITCH		1	
	S610	NSW0246-001X	TACT SWITCH		1	
	S611	NSW0246-001X	TACT SWITCH		1	

PACKING AND ACCESSORIES

Block No.M3MM

No additional / supplemental order of WARRANTY CARDS are available.



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

No.MA507

created date:2011-12-06

MODEL	MARK	MODEL	MARK	MODEL	MARK	MODEL	MARK
KD-X30E	A	KD-X30EE	B	KD-X30EN	C	KD-X30EY	D
KD-X30U	E	KD-X30UN	F	KD-X30UP	G	KD-X30UT	H

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
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PACKING AND ACCESSORIES <M3MM>

	A1	GET0783-001A	INST BOOK	GER	1	A,C,D
	A1	GET0784-001A	INST BOOK	RUS UKR	1	B
	A1	GET0782-001A	INST BOOK	ENG RUS THA ARA PER	1	E
	A1	GET0782-004A	INST BOOK	ENG INA	1	F
	A1	GET0782-003A	INST BOOK	KOR	1	G
	A2	GET0783-002A	INST BOOK	DUT SPA ITA POR	1	A
	A2	GET0783-003A	INST BOOK	ENG FRE	1	C
	A2	GET0783-005A	INST BOOK	POL GRE	1	D
	A2	GET0782-002A	INST BOOK	CHI(TAIWAN)	1	E,H
	A3	GET0783-003A	INST BOOK	ENG FRE	1	A
	A3	GET0783-004A	INST BOOK	SWE DAN FIN	1	C
	A3	GET0783-006A	INST BOOK	ROM BUL CZE HUN	1	D
	A4	GET0783-007A	INSTALL MANUAL	GER	1	A,C,D
	A4	GET0784-002A	INSTALL MANUAL	RUS UKR	1	B
	A4	GET0782-006A	INSTALL MANUAL	CHI(TAIWAN)	1	E,H
	A4	GET0782-008A	INSTALL MANUAL	ENG INA	1	F
	A4	GET0782-007A	INSTALL MANUAL	KOR	1	G
	A5	GET0783-009A	INSTALL MANUAL	ENG FRE	1	A,C
	A5	GET0783-011A	INSTALL MANUAL	POL GRE	1	D
	A5	GET0782-005A	INSTALL MANUAL	ENG RUS THA PER ARA	1	E
	A6	GET0783-008A	INSTALL MANUAL	DUT SPA ITA POR	1	A
	A6	GET0783-010A	INSTALL MANUAL	SWE DAN FIN	1	C
	A6	GET0783-012A	INSTALL MANUAL	ROM BUL CZE HUN	1	D
	A7	-----	WARRANTY CARD	BT-54045-1	1	A,B,C,D
	A8	LVT2328-001A	RUSSIAN SHEET		1	B
△	A9	QAM1345-001	DC CORD		1	A,B,C,D
△	A9	QAM1328-001	DC CORD		1	E,F,G,H
	A10	RM-RK52M	REMOCON UNIT		1	E,F,G,H
	A11	GE40508-001A	HOOK		2	
	A12	GE20279-001A	MOUNTING SLEEVE		1	
	A13	GE20295-001A	TRIM PLATE		1	
	P1	GE34849-001A	INNER CARTON		1	A,C,D
	P1	GE34852-001A	INNER CARTON		1	B
	P1	GE34846-001A	INNER CARTON		1	E,F,G,H
	P2	GE10324-001A	CUSHION		1	



SCHEMATIC DIAGRAMS

DIGITAL MEDIA RECEIVER

KD-X30E
KD-X30EY

KD-X30EE
KD-X30U
KD-X30UP

KD-X30EN
KD-X30UN
KD-X30UT

■ PRECAUTIONS ON SCHEMATIC DIAGRAMS

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

■ PRECAUTIONS ON PARTS LIST

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

■ PRECAUTIONS ON SERVICE

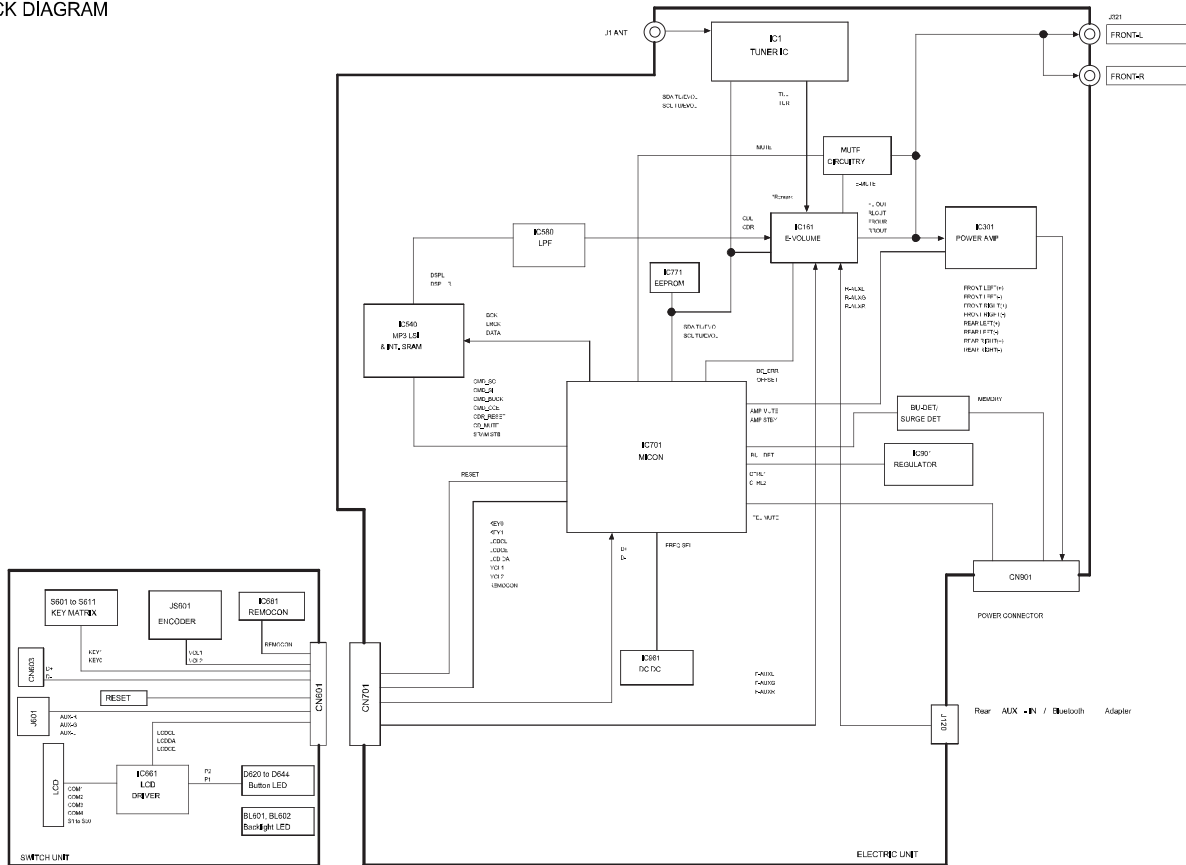
Certain parts of the power circuits and the GNDs differ according to the models. Care must be taken for the following points as the differences are indicated separately in the LIVE GND (\downarrow) and the ISOLATED (NEUTRAL) GND (\perp).

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

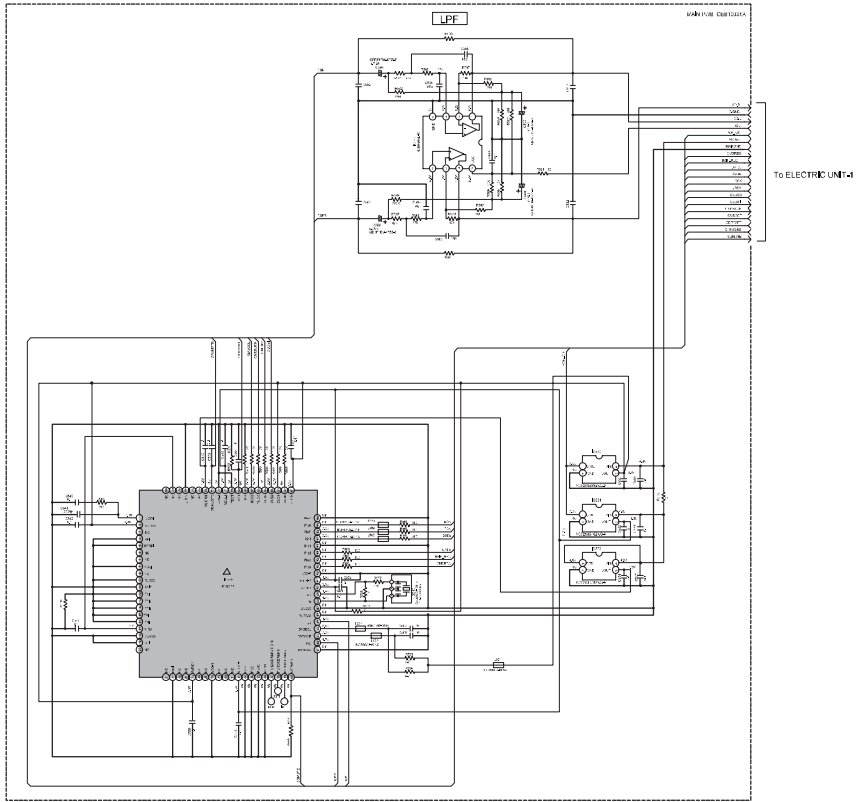
■ DEVIATION TOLERANCE RANGE


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

BLOCK DIAGRAM



ELECTRIC UNIT-2

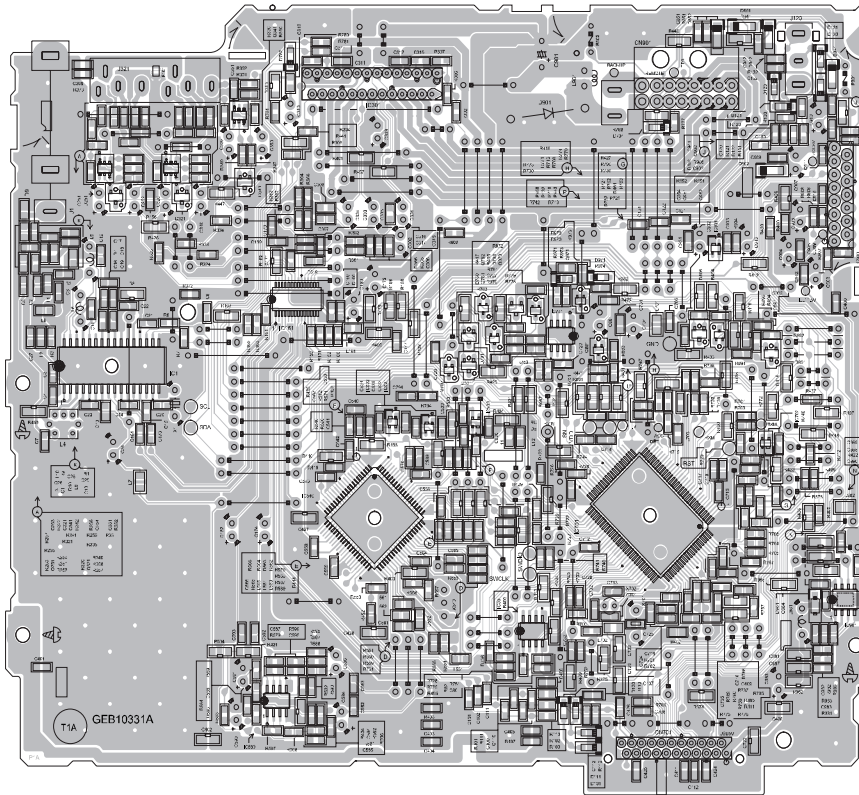



 This is a safety assurance part,
 When replacing these parts make
 sure to use the specified one.

ELECTRIC UNIT

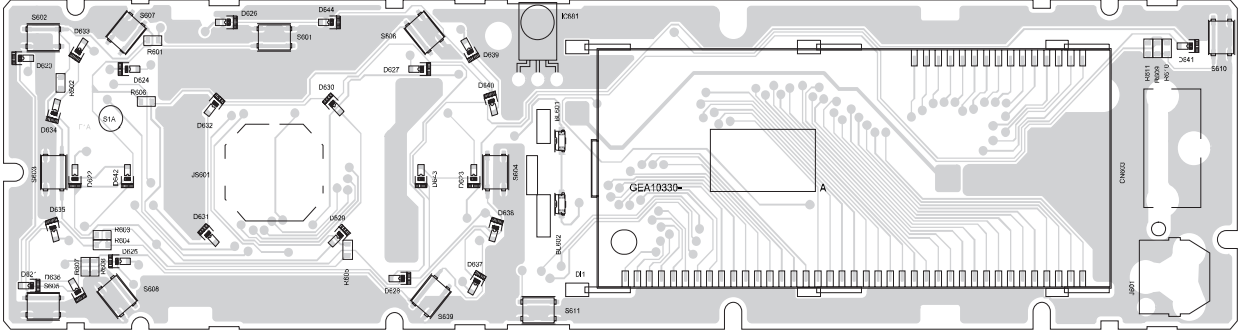
(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))

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



SWITCH UNIT

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



SWITCH UNIT

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

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

