

CASSETTE RECEIVER

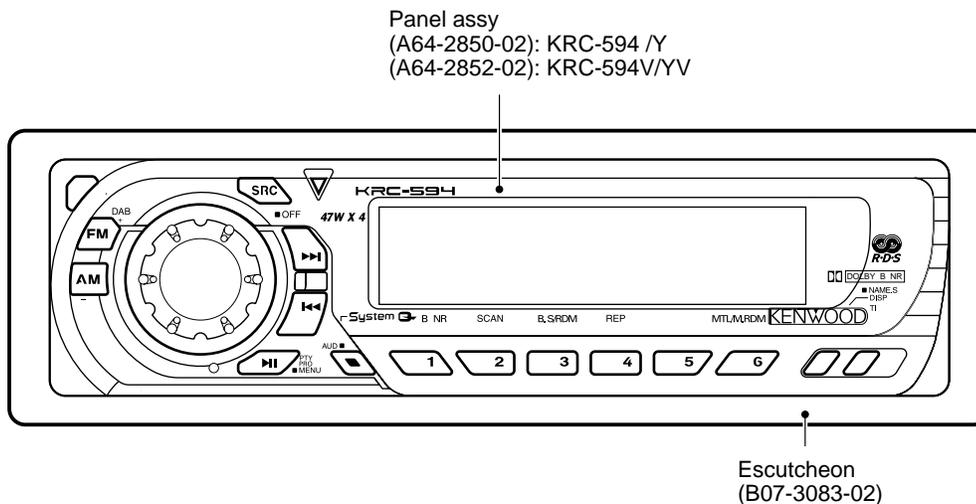
KRC-594/V/Y/YV

SERVICE MANUAL

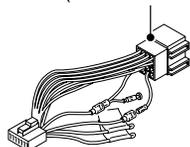
KENWOOD

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B53-0017-00 (N) 1874

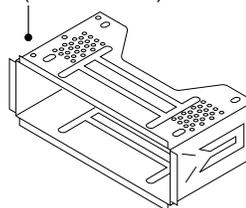
The CASSETTE MECHANISM OPERATION DESCRIPTION is the same model D40-1122-05.
Please refer to the service manual for model D40-1122-05 (B51-7452-00).



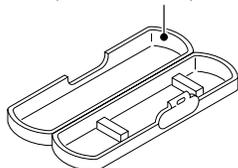
DC cord
(E30-4790-05)



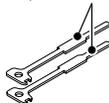
Mounting hardware assy
(J22-0011-03)



Plastic cabinet assy
(A02-1486-13)



Lever
(D10-4589-04)x2



Antenna adaptor
(T90-0523-05)



Screw set
(N99-1730-15)

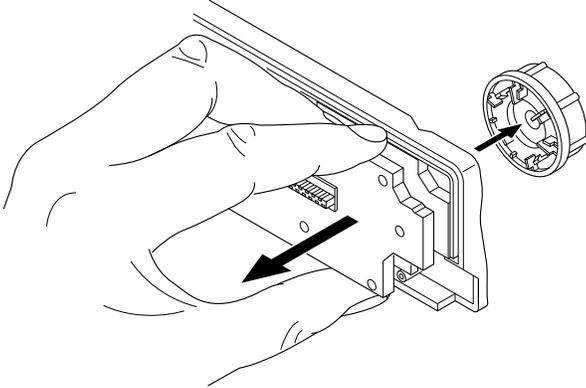


KRC-594/V/Y/YV

DISASSEMBLY FOR REPAIR

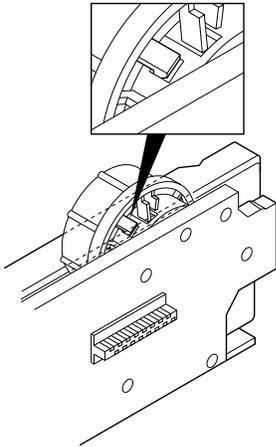
How to remove the Volume Knob

1. Remove the rear cover of panel unit.
2. Juck up as remove the switch unit (x16-) and Volume Knob as shown.



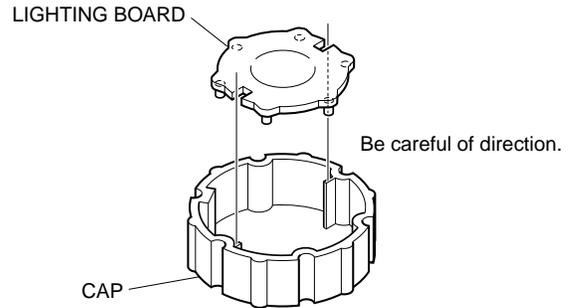
(CAUTION)

Volume Knob cannot pull of front side that looked at tab point in the rotary encoder.

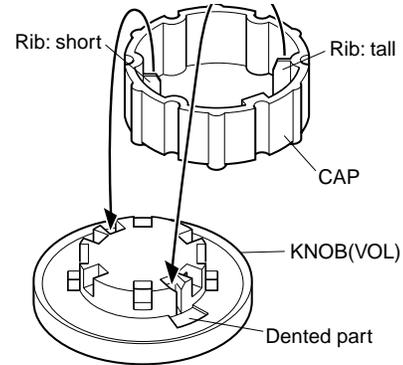


How to install the Volume Knob

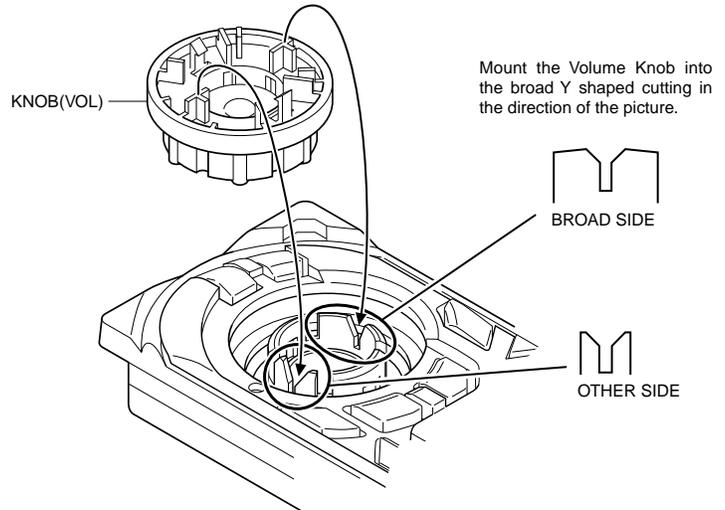
1. Remove the peeling paper of LIGHTING BOARD BOSS side.
2. CAP and LIGHTING BOARD are install positioning as shown.



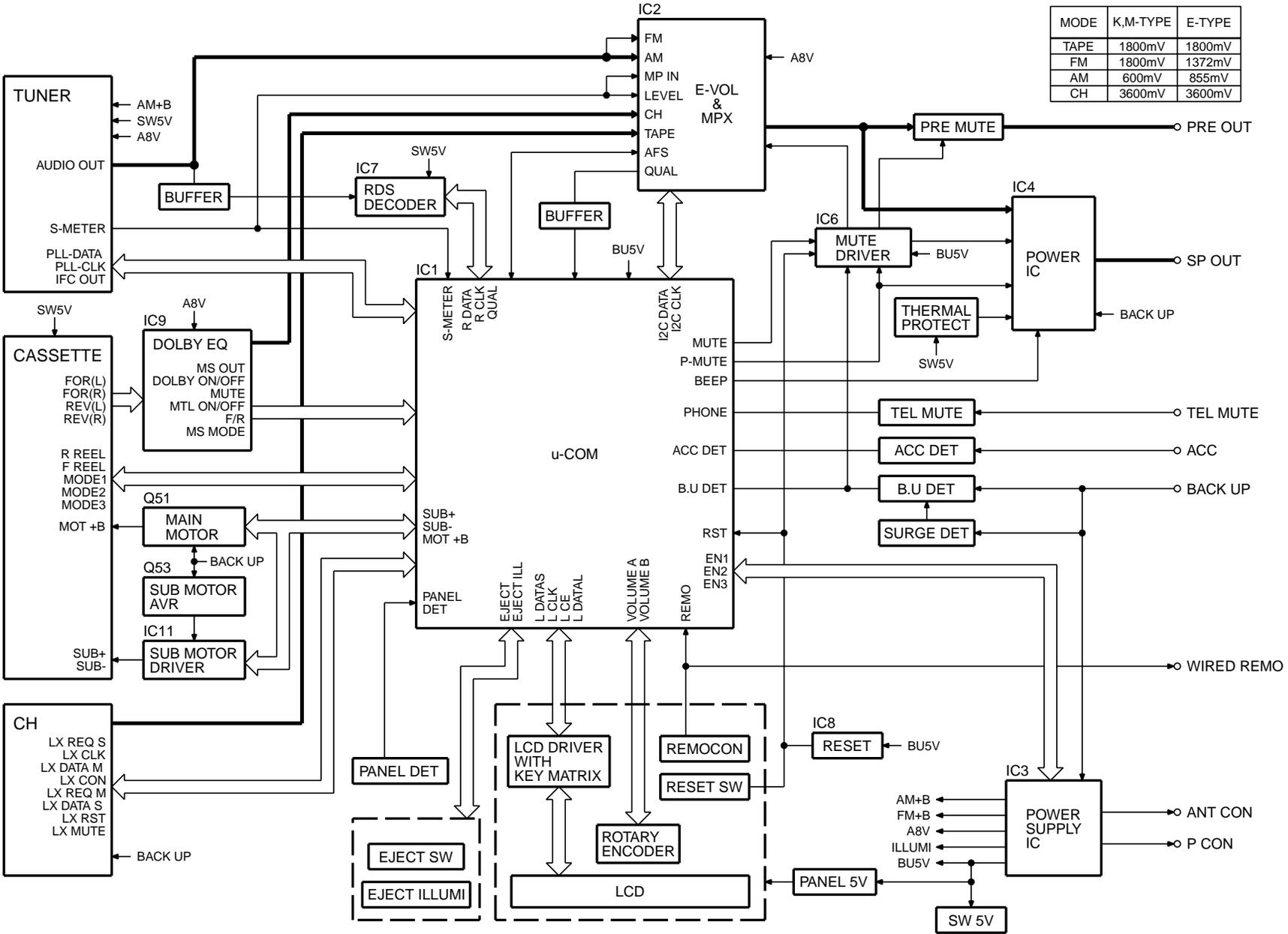
3. Remove the peeling paper.(Use Tweezers)
4. CAP and Volume Knob are install positioning as shown.



5. Install a Volume Knob in rotary encoder positioning as shown.



BLOCK DIAGRAM



KRC-594/V/Y/YV

COMPONENTS DESCRIPTION

● SWITCH UNIT (X16-2032-7x)

Ref. No	Purpose • Function	Operation/Condition/Compatibility
IC1	LCD driver	Drives LCD
IC2	Remote control IC	Controls the unit
Q1,Q4	REMO ON switch	The power supply of IC2 is turned on when base level goes "L"
Q2	Key Illumination switch (Green)	Lights Green key-illumination when base level goes "H"
Q3	Key Illumination switch (Red)	Lights Red key-illumination when base level goes "H"

● SYNTHESIZER UNIT (X14-9182-71)

Ref. No	Purpose • Function	Operation/Condition/Compatibility																																
IC1	System μ -com	Controls FM/AM tuner, the changer, cassette mechanism, Panel, volume and tone.																																
IC2	E.Vol & N.C.MPX	Controls the source, volume, tone and FM multiplex detector.																																
IC3	Power supply IC	BU5V(5V) Audio8V(8V) FM+B(8V) AM+B(8V) P-CON ANT-CON <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>IN EN1</th> <th>OUT ILLUMI</th> <th>IN EN2</th> <th>AM</th> <th>OUT FM</th> <th>A8V</th> <th>IN EN3</th> <th>OUT ANT-CONP-CON</th> </tr> </thead> <tbody> <tr> <td>0V</td> <td>OFF</td> <td>0V</td> <td>OFF</td> <td>OFF</td> <td>OFF</td> <td>0V</td> <td>OFF OFF</td> </tr> <tr> <td>5V</td> <td>ON</td> <td>2.5V</td> <td>OFF</td> <td>ON</td> <td>ON</td> <td>2.5V</td> <td>OFF ON</td> </tr> <tr> <td></td> <td></td> <td>5V</td> <td>ON</td> <td>OFF</td> <td>ON</td> <td>5V</td> <td>ON ON</td> </tr> </tbody> </table>	IN EN1	OUT ILLUMI	IN EN2	AM	OUT FM	A8V	IN EN3	OUT ANT-CONP-CON	0V	OFF	0V	OFF	OFF	OFF	0V	OFF OFF	5V	ON	2.5V	OFF	ON	ON	2.5V	OFF ON			5V	ON	OFF	ON	5V	ON ON
IN EN1	OUT ILLUMI	IN EN2	AM	OUT FM	A8V	IN EN3	OUT ANT-CONP-CON																											
0V	OFF	0V	OFF	OFF	OFF	0V	OFF OFF																											
5V	ON	2.5V	OFF	ON	ON	2.5V	OFF ON																											
		5V	ON	OFF	ON	5V	ON ON																											
IC4	Power IC	Amplifies the front L/R and the rear L/R to 50W or 47W maximum.																																
IC6	Muting logic IC	Controls logic for muting.																																
IC7	RDS decoder																																	
IC8	Reset IC	"L" when detection voltage goes below 3.5V or less.																																
IC9	Equalizer amplifier	Dolby-B, Metal-EQ, Equalizer the Tape sound(120 μ sec).																																
IC11	Sub motor driver	Sub motor control <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">IN</th> <th>SUB MOTOR</th> </tr> <tr> <th>IN1(-)</th> <th>IN2(+)</th> <th></th> </tr> </thead> <tbody> <tr> <td>L</td> <td>L</td> <td>STOP</td> </tr> <tr> <td>L</td> <td>H</td> <td>CW</td> </tr> <tr> <td>H</td> <td>L</td> <td>CCW</td> </tr> <tr> <td>H</td> <td>H</td> <td>STANBY</td> </tr> </tbody> </table>	IN		SUB MOTOR	IN1(-)	IN2(+)		L	L	STOP	L	H	CW	H	L	CCW	H	H	STANBY														
IN		SUB MOTOR																																
IN1(-)	IN2(+)																																	
L	L	STOP																																
L	H	CW																																
H	L	CCW																																
H	H	STANBY																																
Q1	Serge detection	"L" when the back-up voltage becomes more than 18V(momentary power down). "H" when the back-up voltage becomes less than 18V.																																
Q2	BACK-UP detection	"L" when B.U is present. "H" when B.U is absent or momentary power down is detected.																																
Q3	ACC detection	"L" when Acc is present.																																
Q4	SW 5V	ON when the base is "L".																																
Q5	Power-antenna detection	"H" when P-ANT output is short-circuit(P.ANT OFF). "L" when FM/AM signal does not exist.																																
Q51	Main motor switch 1	Outputs 14V when the base is "L".																																
Q52	Main motor switch 2	Q51 turns ON when the base is "H" .																																
Q53	Sub motor AVR	Output 3.6V when the base of Q4 is "L".																																
Q54	MSTC switch	ON when the base is "H" .																																
Q101	Composite signal buffer																																	
Q151	DSI driver	DSI lights when the base is "L". DSI turns off when the base is "H" . DSI turns on and off when panel is taken off.																																
Q152	Panel 5V switch	When the panel is attached, the base goes "L", turning the Tr ON to supply 5V to the panel. When panel is taken off, panel 5V cut off.																																
Q201	Noise buffer																																	
Q350	Pre mute switch	Drives the pre mute switch (Q351~354) when the base is "L".																																
Q351	Pre mute switch	Mutes the rear Lch when the base is "H".																																
Q352	Pre mute switch	Mutes the rear Rch when the base is "H".																																

MICROCOMPUTER'S TERMINAL DESCRIPTION

● SYSTEM MICROCOMPUTER MN101C49HNA (IC1: X14-)

Pin No.	Name	Module	I/O	Description	Processing Operation
1	VREF-	Power supply		GND for A/D	
2	F REEL	TAPE	I	Reel pulse FWD	Cassette mecha reel pulse output FWD Vth=2.5V
3	R REEL	TAPE	I	Reel pulse REW	Cassette mecha reel pulse output REW Vth=2.5V
4	S-METER	TUNER	I	K3I tuner S-meter	
5	IFC-OUT	TUNER	I	IF count	0V or 5V
6	NOISE	TUNER	I	FM noise detection terminal	
7	PHONE	EXTRA	I	PHONE detection terminal	Tel mete :1V or less, NAVI MUTE:2.5V or less, Only J type 1V or less,more than 2.5V NAVI
7	PHONE	EXTRA	I	When Not used, output L fixed	
8	DCDET RESERVE	Power supply	I	Not used DE DET pull down	DC offset detection terminal of P-IC
9	GND	Power supply		GND	
10	VREF+	Power supply		VCC for A/D	
11	VDD	Power supply		Microcomputer's main Vcc	
12	MAIN OSC1			Main oscillation input	8.38MHz
13	MAIN OSC2			Main oscillation input	
14	VSS	Power supply		Microcomputer's main GND	
15	SUB OSC1			32.768kHz oscillation input	
16	SUB OSC2			32.768kHz oscillation input	
17	GND	Power supply		GND	External ROM
18	LX-DATAM	LX	O	Data output to CH	Last maintain
19	LX-DATAS	LX	I	Data input from CH	
20	LX-CLK	LX	O	Clock input and output with CH	
21	FLASH READ		O		
22	FLASH WRITE		O		
23	FLASH CLK		O		
24	BEEP	AUDIO	O	Beep for built in amplifier	
25	PANEL-DET	to PANEL	I	Panel existence detection terminal	Detached the panel :L, Attached the panel :H
26	REMO	to PANEL	I	Remote control input	
27	R-CLK	TUNER	I	Clock for RDS decoder	With no destination:out put L fixing
27	NC		O	With no RDS output L fixed	
28	LX-REQS	LX	I	Request input from CH	Request detection :L
29	B.U-DET	Power supply	I	Momentary power down detection	BU detection :L With no BU :H
30	EJECT	to PANEL	I	Tape eject	L :KEY input
31	KEY-REQ	to PANEL	I	Communication request from LCD driver	L :KEY input
32	VDD	Power supply	I		VDD
33	RESET		I	Reset	
34	EQ MUTE	TAPE	O	Equalizer mute	During tape play :L During tape FF/REW :H Mode except tape :H
35	DOLBY	TAPE	O	B NR ON/OFF	B NR ON:H, B NR OFF:L Mode except tape :keep the value
36	MUSIC	TAPE	I	Tape between music detection	music signal detection:L, with no music signal:H
37	NC		O		
38	NC		O		
39	NC		O		
40	NC		O		
41	VDD	Power supply	I		VDD
42	L DATAS	to PANEL	O	TXD for LCD	
43	L DATAL	to PANEL	I	RXD for LCD	
44	L CLK	to PANEL	O	Clock for LCD	
45	PLL DATA	TUNER	I/O	Tuner I2C SDA	
46	NC		O		

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MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Name	Module	I/O	Description	Processing Operation
47	PLL CLK	TUNER	I/O	Tuner I2C SCL	
48	NC		O		
49	NC		O		
50	NC		O		
51	PANEL 5V	to PANEL	I/O	Panel 5V ON/OFF	Attached the panel, ACC ON :L (Refer to "Truth table 5")
52	NC		O		
53	NC		O		
54	VOL A	to PANEL	I	Rotary encorder input	Refer to timing chart
55	VOL B	to PANEL	I	Rotary encorder input	Refer to timing chart
56	DSI	to PANEL	O	Eject key illumination, guide illumination, DSI control	Light on :L, Light off :H
57	NC		O		
58	FILP-DET	to PANEL	I	14seg retractable detection	
59	L CE	to PANEL	O	LCD driver CE	
60	NC		O		
61	TYPE0	EXTRA	I	Destination setting	Refer to "Trush table 4"
62	TYPE1	EXTRA	I	Destination setting	Refer to "Trush table 4"
63	TYPE2	EXTRA	I	Destination setting	Refer to "Trush table 4"
64	NC		O		
65	ST TYPE0	EXTRA	I	for OEM	Refer to "Trush table 4"
66	ST TYPE1	EXTRA	I	for OEM	Refer to "Trush table 4"
67	NC		O		
68	NC		O		
69	NC		O		
70	MODE1	TAPE	I	Cassette mechanism mode detection	Refer to "Trush table 1"
71	MODE2	TAPE	I	Cassette mechanism mode detection	Refer to "Trush table 1"
72	MODE3	TAPE	I	Cassette mechanism mode detection	Refer to "Trush table 1"
73	MOTOR	TAPE	O	Cassette mechanism main motor	Motor active :H, Motor stop :L
74	SUB+	TAPE	O	Cassette mechanism sub motor	Refer to "Trush table 2"
75	SUB-	TAPE	O	Cassette mechanism sub motor	Refer to "Trush table 2"
76	R QUAL	TUNER	I	RDS quality	
76	NC		O	When with no RDS, output L fixed	
77	R DATA	TUNER	I	RDS data	
77	NC		O	When with no RDS, output L fixed	
78	LX-MUTE	LX	I	Mute request from CH	H:MUTE ON L:MUTE OFF
79	LX-CON	LX	O	Control output to CH	ON:H OFF:L
80	LX-REQM	LX	O	Request output to CH	Request detection :L
81	LX-RST	LX	O	Reset for CH	Usually, L after system RST returned, after more than 400msec H, and L
82	MUTE	AUDIO	O	Mute	
83	AFS	TUNER	O	Noise detection time constant switching terminal	FM seek during AF search :L, during receiving :H
84	IC2 SDA	AUDIO	I/O	SDA for EVOL	
85	IC2 SCL	AUDIO	I/O	SCL for EVOL	
86	P-MUTE	AUDIO	O	Power IC Mute output terminal	When power off :L all off :L tel mute :L
87	P-STBY	AUDIO	O	Power IC standby output terminal	When power IC on :H off :L
88	SVR	AUDIO	O	Power IC servo control terminal	momentary power down :H
89	ACC-DET	Power supply	I	ACC detection	ACC detection :L with no ACC :H
90	PCON-DET	EXTRA	I	PCON output detection	PCON detection :L
91	PANT-DET	EXTRA	I	PANT output detection	PANT detection :L with no PANT :output L fixed
92	MS MODE	TAPE	O	Tape between music detection switching	While tape play :H While tape FF/REW, mode except tape :L

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MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Name	Module	I/O	Description	Processing Operation
93	F/R	TAPE	O	Tape EQ input switching	FWD input :L REV input :H MODE except TAPE :keep the value
94	METAL	TAPE	O	TAPE METAL ON/OFF	NORMAL :H, METAL :L MODE except TAPE :keep the value
95	DAVSS	Power supply			
96	EN2	Power supply	O	Power supply IC control	Refer to "Trush table 3"
97	EN3	Power supply	O	Power supply IC control	Refer to "Trush table 3"
98	EN1	Power supply	O	Power supply IC control	Refer to "Trush table 3"
99	SW5V	Power supply	O	SW5V control	
100	DAVDD	Power supply		Reference power supply for D/A	

Trush table 1. (Cassette mechanism conditions)

MODE1	MODE2	MODE3	condition
L	H	H	Eject
H	L	H	Standby
L	L	L	REW
L	L	H	FF
H	L	L	REV play
H	H	L	FWD play
H	H	H	other position

Trush table 2. (Cassette mechanism sub motor)

SUB MOTOR +	SUB MOTOR -	condition
L	L	Stop (Power off)
L	H	Normal rotation (way to loading)
H	L	Reverse (way to eject)
H	H	Stop (Power on)

Trush table 3. (Power supply IC [TDA3682])

EN1 Control

EN1	ILL
L	OFF
H	ON

EN2 Control

EN2	AUDIO 8V	AM 8V	FM 8V
L	OFF	OFF	OFF
M	ON	OFF	ON
H	ON	ON	OFF

EN3 Control

EN3	P-ANT	P-CON
L	OFF	OFF
M	OFF	ON
H	ON	ON

*H=5V M=2.5V L=0V

Trush table 4. (Destination type list)

Model number	TYPE0	TYPE1	TYPE2	ST TYPE0	ST TYPE1
KRC-766	L	L	L	L	L
KRC-694/Y	L	L	H	L	L
KRC-666R	L	H	L	L	L
KRC-594/Y	L	H	H	L	L
KRC-594V/YV	H	L	L	L	L
KRC-666	H	H	L	L	L

Trush table 5. (Panel 5V)

	Processing intructions for low consumption mode	
POWER OFF	O	L
ACC OFF	I	Hi-z
Detached the panel	I	Hi-z
Momentary power down (Attached the panel)	I	Hi-z

KRC-594/V/Y/YV

TEST MODE

1. How to enter the test mode

- While holding the Preset 1 and Preset 3 keys, reset the unit.

2. How to exit from the test mode

- Reset the unit, momentary power down, ACC OFF, power OFF, and Panel detached.
- (Note) The test mode cannot terminated by Panel is fall down.

3. Initial status in the test mode

- Sources : All OFF.
- Display : All segments are lit.
- Volume : -10 dB (displayed as 30)
- Loudness : OFF
- CRSC : OFF regardless of the presence of switching function.
- SYSTEM Q : Flat.
- BEEP : When pressing any keys, the buzzer generates a beep at any time.
- DISPLAY TYPE : TYPE A

4. RDS automatic measurement

- An addition to disposal of substitute for visual check PS display as usual production lines.
- P-CON terminal is OFF by force, when received the PS data and in case of corroboration PS display is "RDS_TEST". ("_" is mean blank.)
- This disposal is test mode only.
- P-CON is switching the source or return with power on → off.

5. Special display in Tuner mode

When any of the following messages is displayed in Tuner mode, the front end may be abnormal.

- "TNE 2P NG": The EEPROM is set to the default (unstable values) because the F/E was shipped without passing through the adjustment process, etc.
- "TNCON NG": Communication with the F/E is not possible.

6. Forced switching of K3I

- Each press of the Preset 6 key in Tuner mode should switch K3I from AUTO → Forced Wide → Forced Middle → Forced Narrow → AUTO. The initial status is AUTO and the display shows these modes as follows.
- AUTO : FMA
- Forced Wide : FMW
- Forced Middle : FMM
- Forced Narrow : FMN

7. Test mode specifications of the cassette receiver

- BLANK SKIPP : OFF

8. Audio-related specifications

- A short press of the Q key initiates the audio adjustment mode.
- Pressing the * key on the remote initiates the audio adjustment mode.
- Fader is selected to the initial item.
- Continuous holding of a remote control key is inhibited.
- Bass, Middle and Treble are adjusted in 3 steps of -8/0/+8 with the Track Up/Down keys.
- Balance is adjusted in 3 steps of L15/0/R15 with the Track Up/Down keys.
- Fader is adjusted in 3 steps of F15/0/R15 with the Track Up/Down keys.
- Volume Offset is adjusted in 2 steps of -8/0 with the Track Up/Down keys.

9. Menu-related specifications

- A short press of the MENU key initiates the Menu mode. Except, tape source is usually press and hold 1 second to enter the menu mode and short press initiates turn over.
- Pressing the DNPP/SBF key on the remote initiates the Menu mode.
- Continuous holding of a remote control key is inhibited.
- Contrast is adjusted in 3 steps of 0/5/10(5x7dot), 0/4/7 (14seg) with the Track Up/Down keys.

10. Backup current measurement

- When the unit is reset while ACC is OFF (i.e. by turning Back-Up ON), the MUTE terminal goes OFF in 2 seconds in place of 15 second.

TEST MODE

11. Special display when the display is All ON

Pressing the Preset keys while the power is All OFF displays the following information.

[14seg 8 digits]

1key	Version display(8 digits, Month/Day/Hour/Minute) (Display)xxxxxxx
2key	
3key	Short press: View power ON time.(The All OFF period is not counted.) Long press/hold: Clear power ON time. (Display)PONxxxx Max. 65535 (hours)
4key	Short press: Display TAPE operation time. Long press/hold: Clear TAPE operation time. (Display)TPTxxxx Max. 65535 (hours)
5key	Short press: Display TAPE ejection count. Long press/hold: Clear TAPE ejection count. (Display)EJCxxxx Max. 65535 (times)
6key	Short press: Display Panel open/close count. Long press/hold: Clear Panel open/close count. (Display)PCxxxx Max. 655359 (times)
FM key	Display ROM collection version (Display)ROM Rxxx Invalid :ROM R-

[15x7dot 12 digits]

1key	Version display(8 digits, Month/Day/Hour/Minute) (Display)SYS_xxxxxxx
2key	
3key	Short press: View power ON time.(The All OFF period is not counted.) Long press/hold: Clear power ON time. (Display)PonTim_xxxxx Max. 65535 (hours)
4key	Short press: Display TAPE operation time. Long press/hold: Clear TAPE operation time. (Display)TPTim_xxxxx Max. 65535 (hours)
5key	Short press: Display TAPE ejection count. Long press/hold: Clear TAPE ejection count. (Display)EjeCnt_xxxxx Max. 65535(times)
6key	Short press: Display Panel open/close count. Long press/hold: Clear Panel open/close count. (Display)PnCnt_xxxxx Max. 655359 (times)
FM key	Display ROM collection version (Display)ROM Rxxx Invalid :ROM R-

12. Other specifications

- The line mute against times are 1 second from 10 seconds when starting the test mode.

■ Security

• Forced Power ON mode (All models)

Even when the security is approved, resetting the unit while holding the Q and 4 keys makes it possible to turn the power ON for 30 minutes. After 30 minutes have elapsed, it is not possible to return to the previous condition unless the unit is reset again.

• Method of registration of the security code after EEPROM (F/E) replacement (Code security model)

1. Enter the test mode. (See How to enter the test mode)
2. Press the MENU key to enter the MENU.
3. When the message "Security" is displayed, press and hold the Track Up/Down key for 1 second to enter the Security registration mode.
4. Enter the code using the FM /AM /Track Down keys.
 - FM key : Number up
 - AM key : Number down
 - Track Up key:Cursor right shift
 - Track Down key :Cursor left shift
5. Hold down the Track Up key for at least 3 seconds and the message, "RE-ENTER" appears, so once again enter the code according to Step 4 above.
6. Press and hold the Track Up key for 3 seconds until "AP-PROVED" is displayed.
7. Exit from the test mode. (See 2 How to exit from the test mode)
(Note) All Clear is not applicable to the security code of this model.

• Simplified method of clearing the security code

1. While the code entry is requested, press and hold the Track Up key for 3 seconds while holding the AUTO key pressed. (----will disappear.)
2. Enter "KCAR" from the remote.
 - Press the 5 key on the remote twice, then press the Track Up key. (This enters "K")
 - Press the 2 key on the remote 3 times, then press the Track Up key. (This enters "C")
 - Press the 2 key on the remote once, then press the Track Up key. (This enters "A")
 - Press the 7 key on the remote twice, then press the Track Up key. (This enters "R")
3. Security function is canceled and the unit enters the All OFF mode.
4. If you commit a mistake in the code entry, the unit enters the code request mode.

KRC-594/V/Y/YV

ADJUSTMENT

Set the controls and switches as follows.

BALANCE :center position BASS :center position LOUD :OFF DOLBY NR :OFF

FADER :center position TREBLE :center position

No	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER (RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
CASSETTE DECK SECTION							
[1]	AZIMUTH	TCC-153 10kHz	Connect an AC voltmeter to SP OUT	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each Lch/Rch or FWD/RVS becomes maximum	
[2]	PLAY BACK LEVE	TCC-130	Connect an AC voltmeter to CN9 (X14)	TAPE PLAY	VR1 (L) VR2 (R) (X14)	388mV	(a)

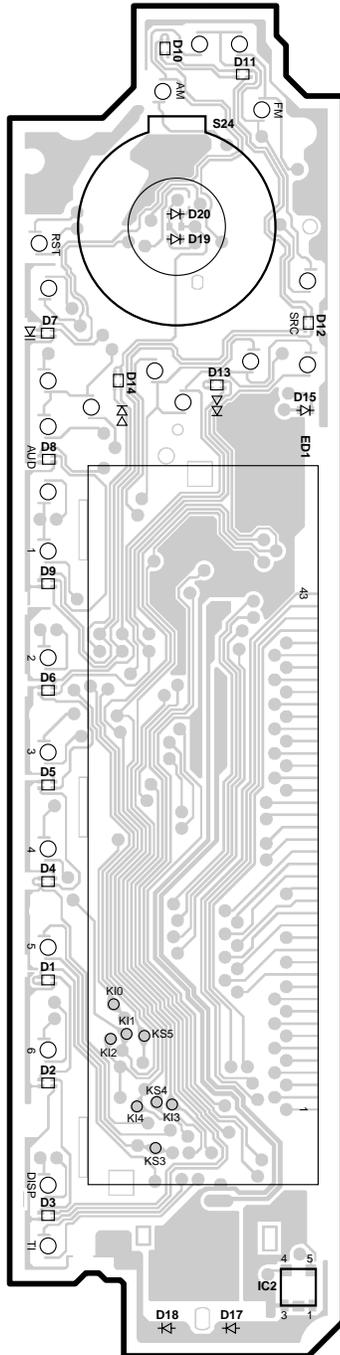


FRONT PANEL

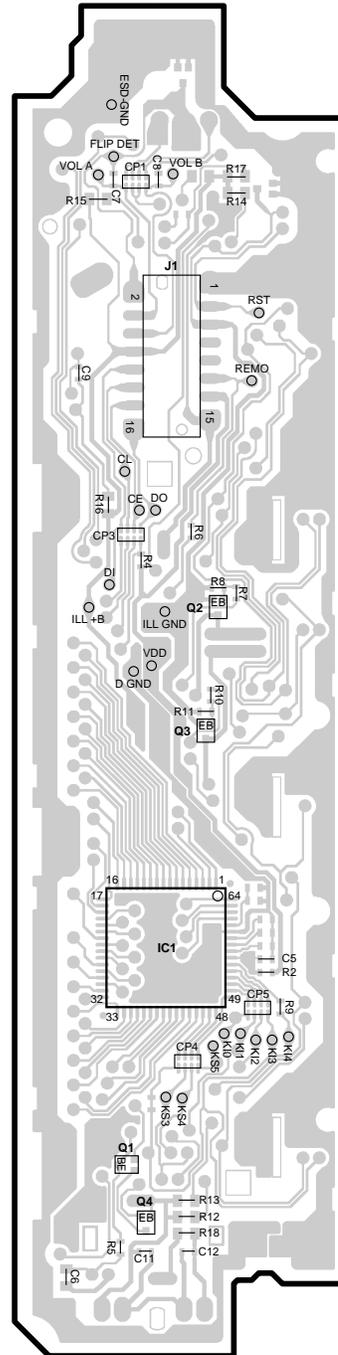
PC BOARD

(COMPONENT SIDE VIEW) (FOIL SIDE VIEW)

X16-2032-7x (J74-1451-02)



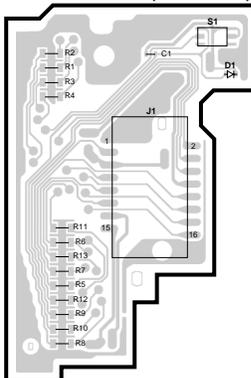
X16-2032-7x (J74-1451-02)



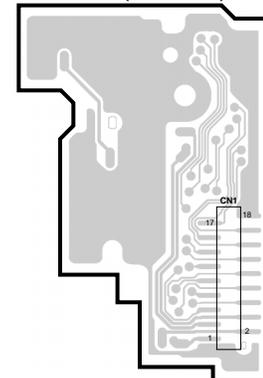
X16-2032-7x

Ref. No	address
IC1	4D
IC2	6B
Q1	5C
Q2	3D
Q3	4D
Q4	5C

X89-2570-11 (J74-1450-02)



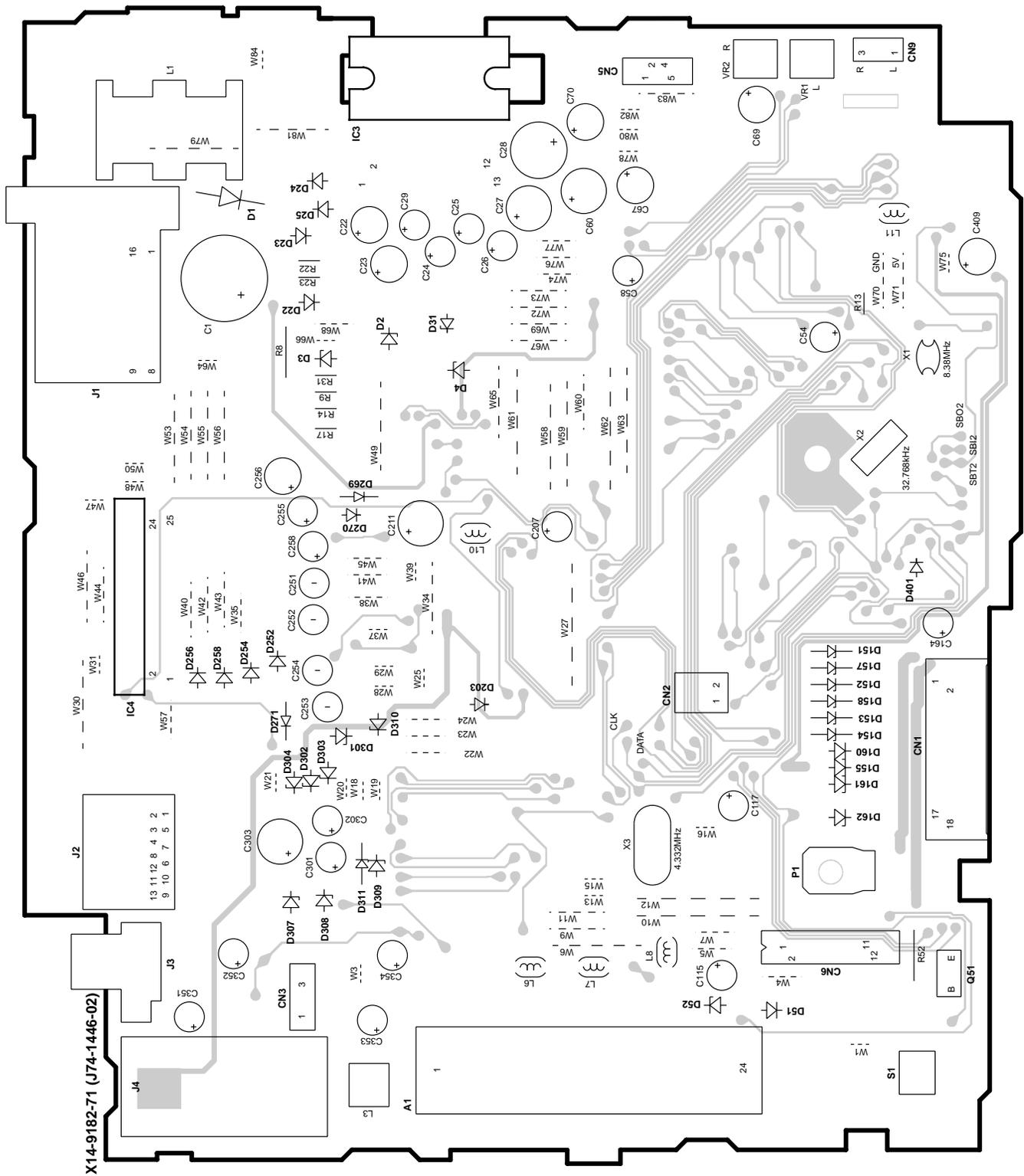
X89-2570-11 (J74-1450-02)



Refer to the schematic diagram for the values of resistors and capacitors.

KRC-594/V/Y/YV

PC BOARD (COMPONENT SIDE VIEW)



X14-9182-71 (J74-1446-02)

X14-9182-71

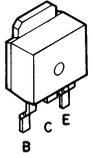
Ref. No	address
IC3	2H
IC4	4F
Q51	5J

KRC-594/V/Y/YV

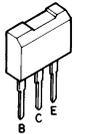
DTC143TUA
UN5114
UN5211
UN5216
2SA1036K
2SA1576A



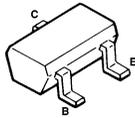
2SC5103



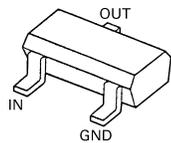
2SB1443



2SC4081



DTA114EUA
DTA124EUA
DTC114EUA
DTC124EUA
DTC144EUA



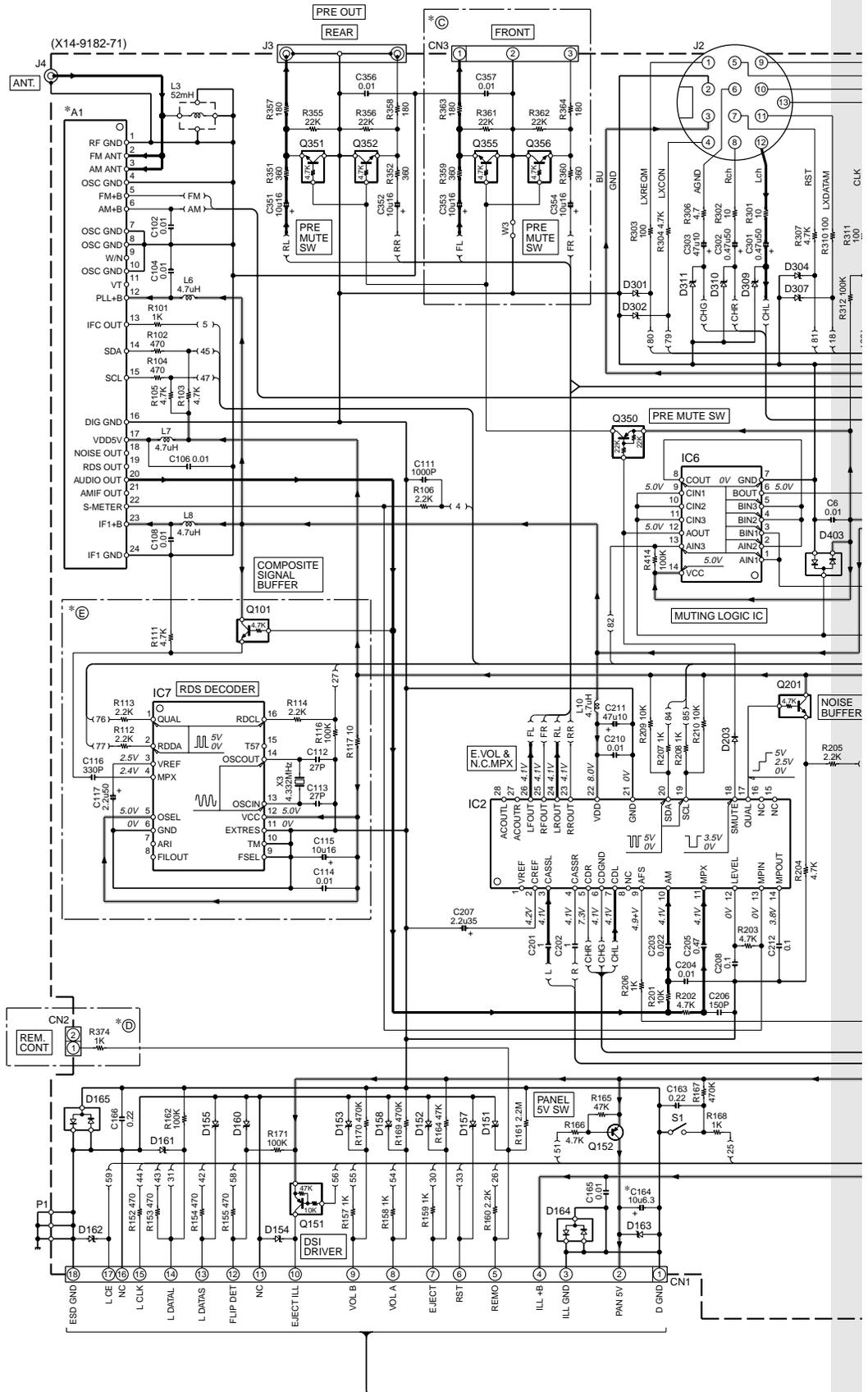
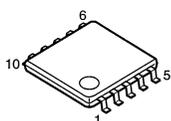
DA204U
DTA114YUA

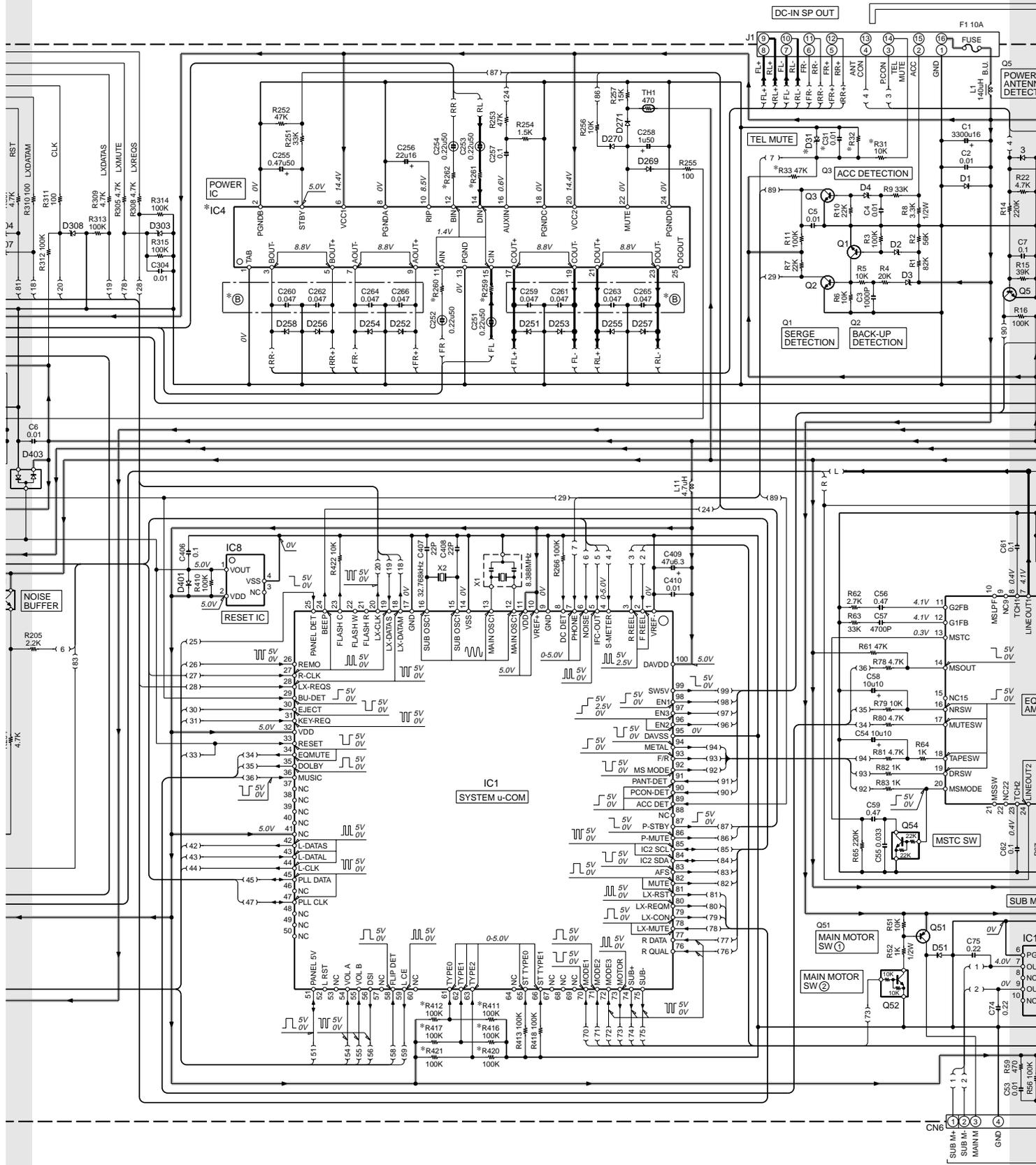


UN5212



LB1930M



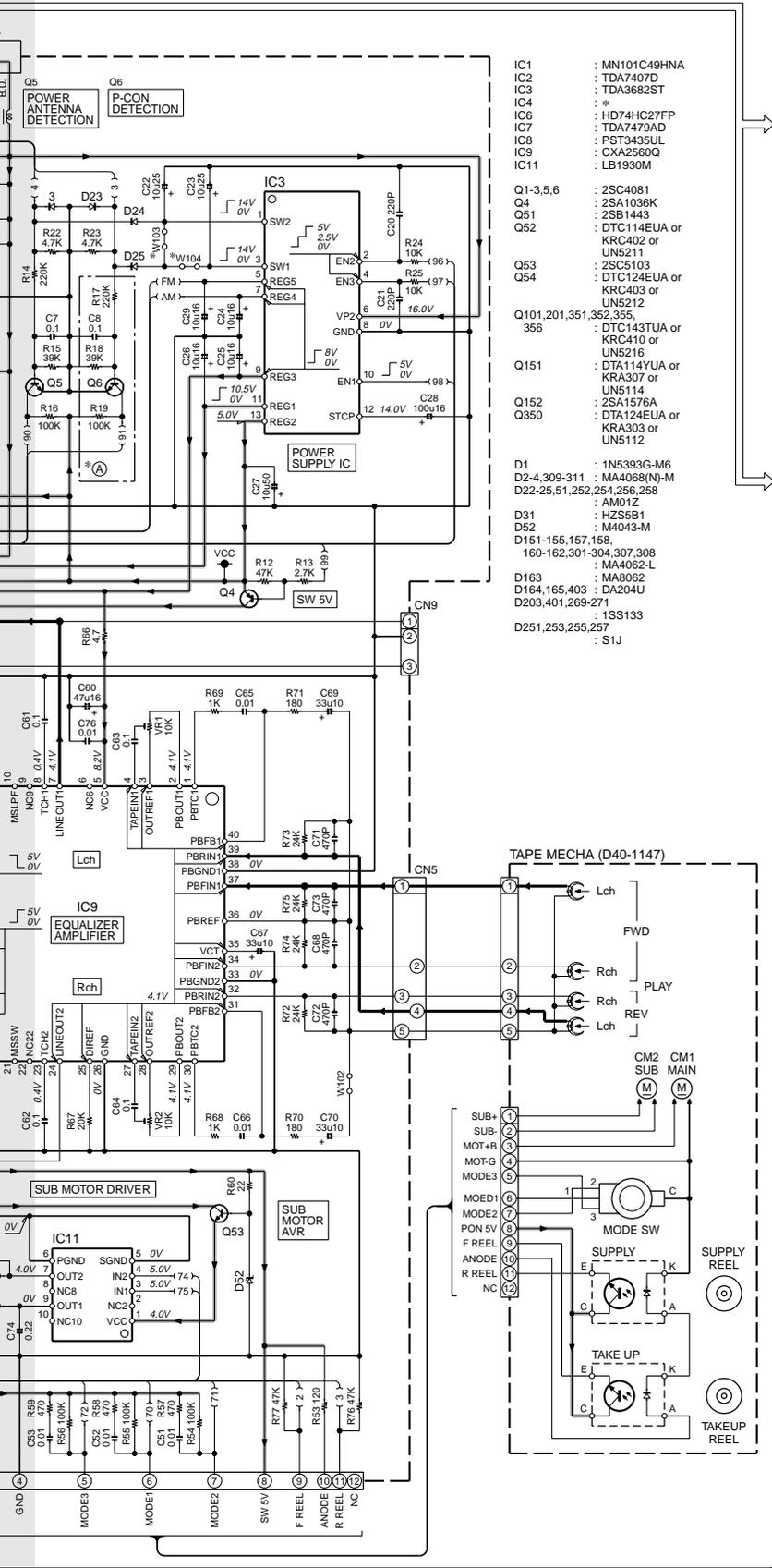


CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

△ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

KRC-594/V/Y/YV



KRC-594/V/Y/YV

1

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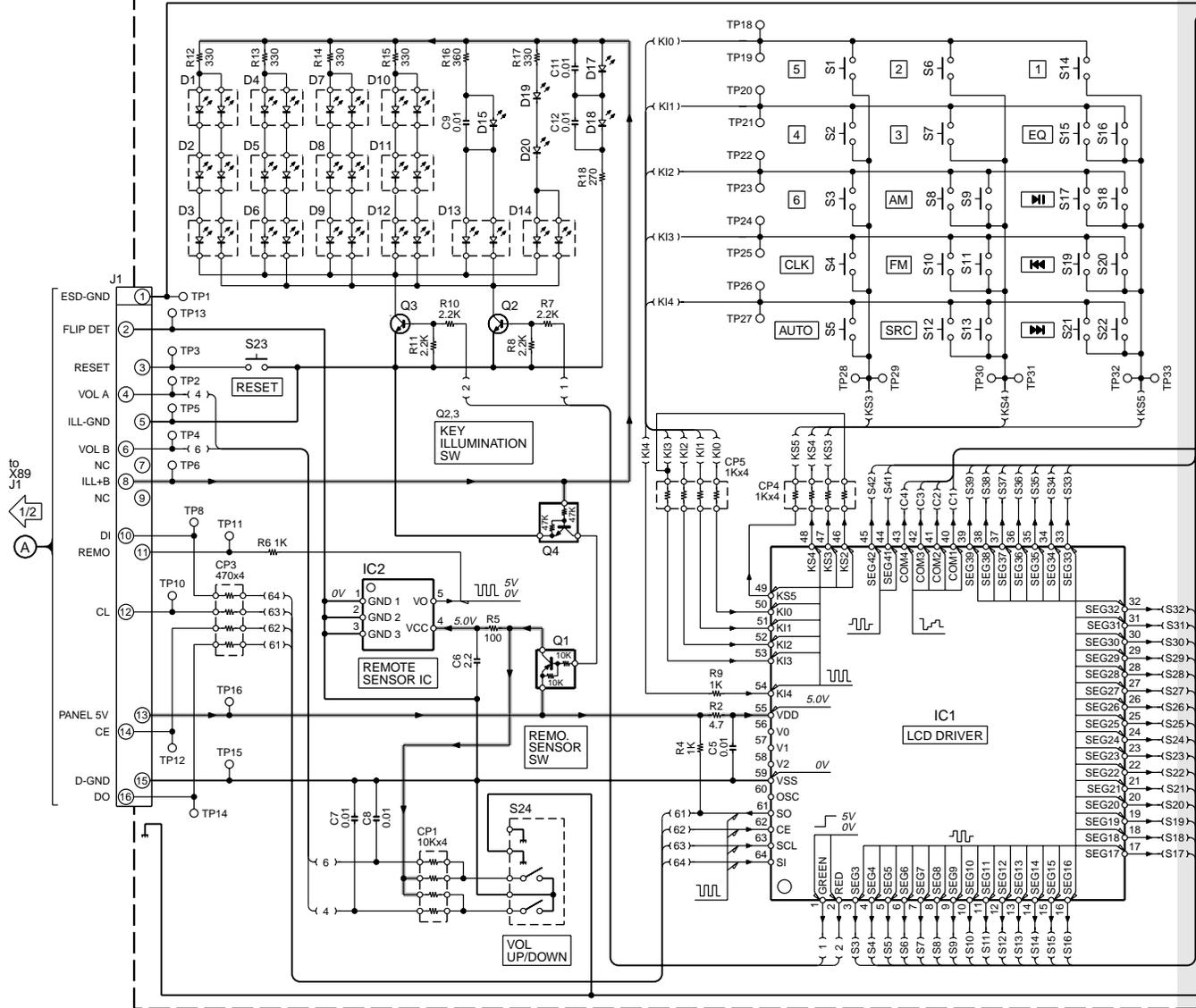
4

5

6

7

SWITCH UNIT (X16-2032-7x)

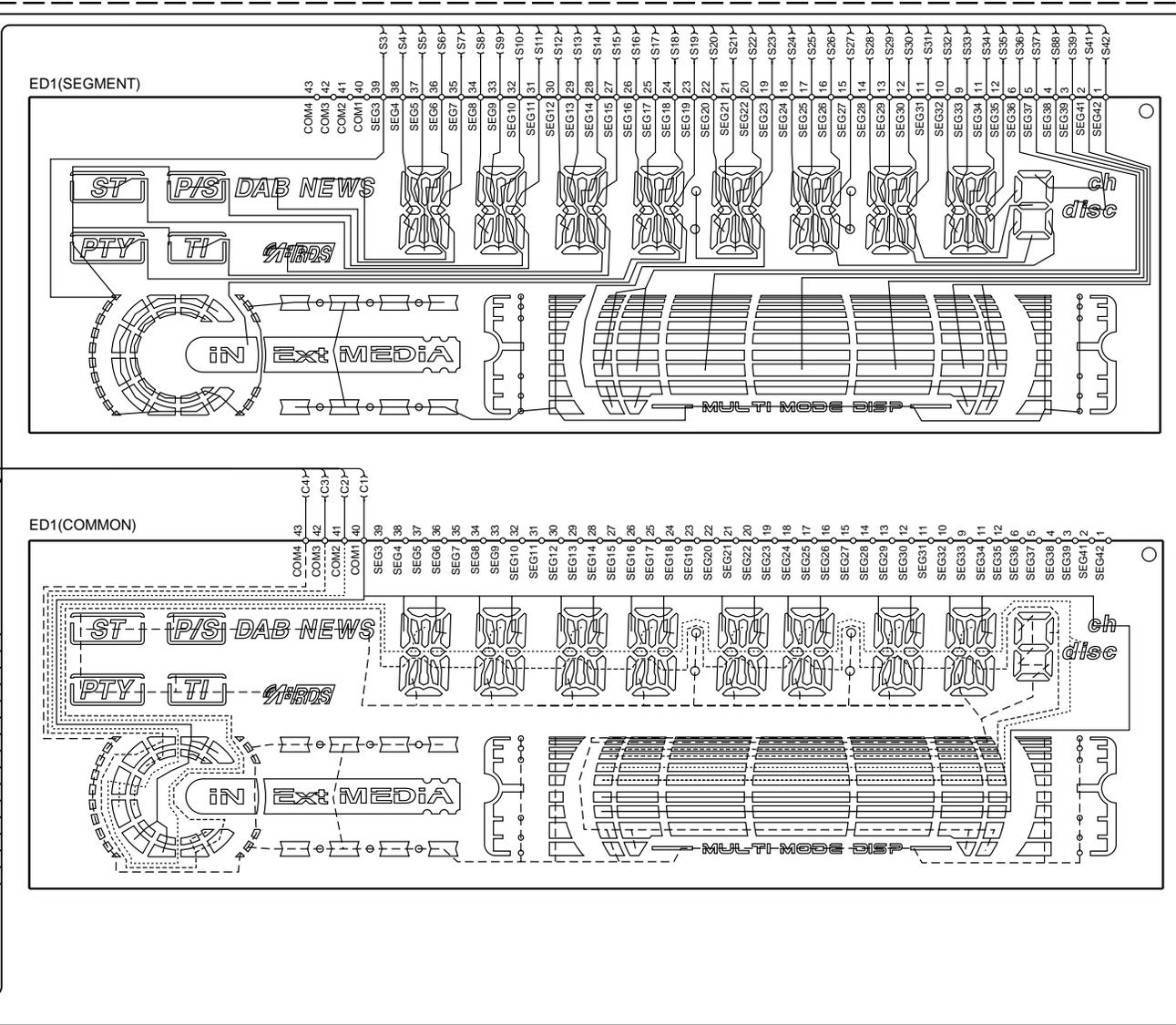


MODEL NAME	UNIT No.
KRC-594	X16-2032-70
KRC-594Y	X16-2032-71
KRC-594V	X16-2032-71
KRC-594YV	X16-2032-71

- IC1 : NJU6535
- IC2 : PNA4S22M
- Q1 : DTA114EUA
- Q2,3 : 2SC4081
- Q4 : DTC144EUA
- D1-14 : B30-1605-05
- D15 : B30-1564-05
- D17,18 : B30-1571-05
- D19,20 : B30-1566-05

— GND LINE
 — +B LINE

KRC-594/V/Y/YV



KRC-594/V/Y/YV (2/2)

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

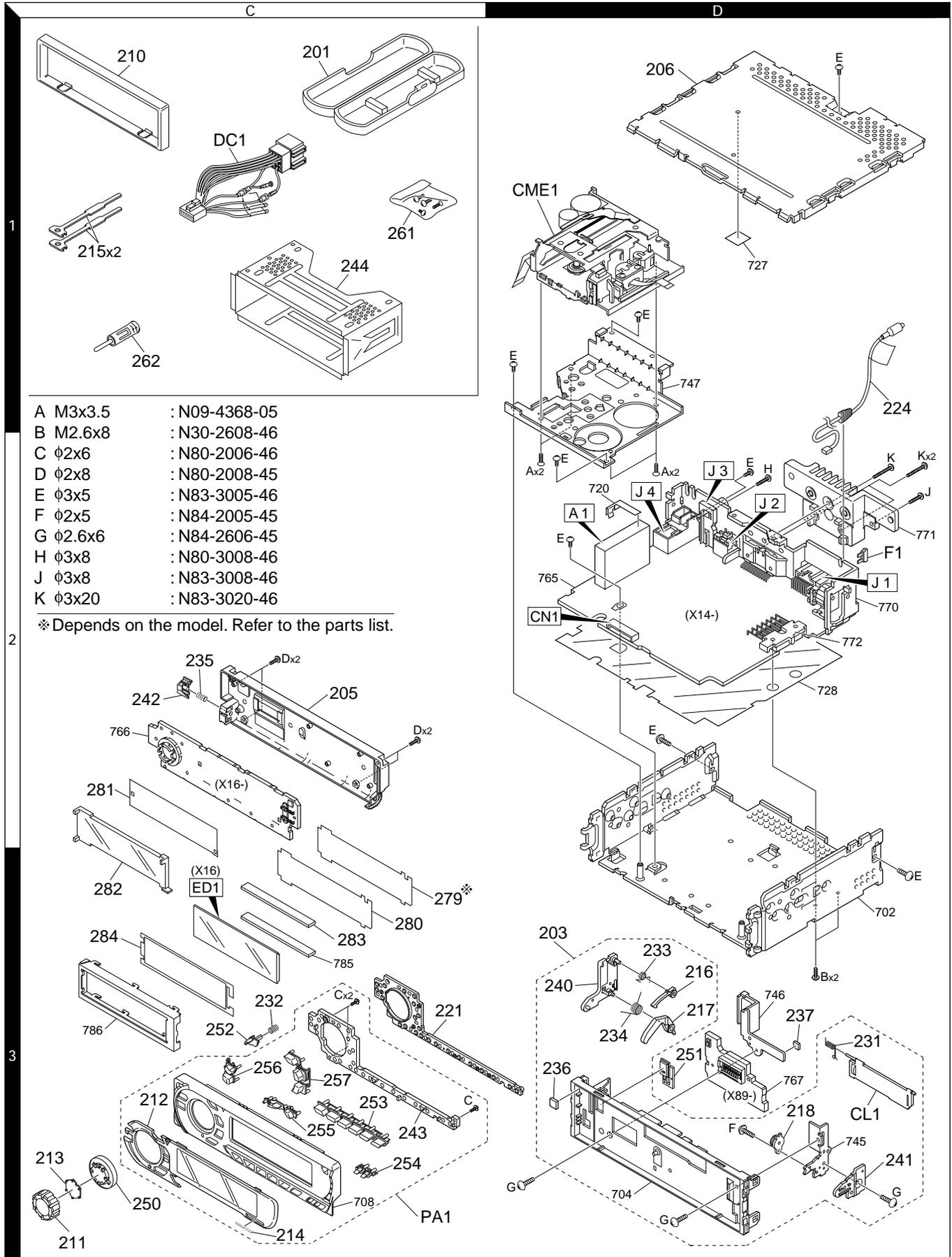
⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

1
2
3
4
5
6
7

KRC-594/V/Y/YV

EXPLODED VIEW (UNIT)



KRC-594/V/Y/YV

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
KRC-594/V/Y/YV					
201	1C		A02-1486-13	PLASTIC CABINET ASSY	
203	3D		A22-2984-02	SUB PANEL ASSY	
205	2C		A46-1778-01	REAR COVER	
206	1D	*	A52-0830-02	TOP PLATE	
CL1	3D		A53-1712-03	CASSETTE LID	
PA1	3C	*	A64-2850-02	PANEL ASSY	E2E3
PA1	3C	*	A64-2852-02	PANEL ASSY	E4E5
-			B46-0100-50	WARRANTY CARD	E2E4
-			B46-0612-14	ID CARD	
-		*	B64-2528-00	INSTRUCTI.MANUAL(ENG.FRE.GER.)	E2E4
-		*	B64-2529-00	INSTR.MANUAL(DUT.ITA.SPA.POR.)	E2E4
-		*	B64-2530-00	INSTRUCTI.MANUAL(ENG.RUS.POL.)	E3E5
-		*	B64-2531-00	INSTR.MANUAL(CZE.HUN.CRO.SLO.)	E3E5
210	1C		B07-3083-02	ESCUTCHEON	
211	3C		B09-0530-03	CAP (VOL)	
212	3C	*	B10-4323-01	FRONT GLASS	E2E3
212	3C	*	B10-4325-01	FRONT GLASS	E4E5
213	3C		B19-2200-04	LIGHTING BOARD (VOL)	
214	3C		B43-1284-04	BADGE	
215	1C		D10-4589-04	LEVER	
216	3D		D10-4730-03	LEVER	
217	3D		D10-4731-03	LEVER	
218	3D		D39-0255-05	DAMPER	
CME1	1D		D40-1147-05	CASSETTE MECHANISM ASSY	
221	3C		E29-1927-02	CONDUCTIVE RUBBER	
224	1D		E30-6224-15	CORD WITH CONNECTOR	
△ DC1	1C		E30-4790-05	DC CORD (ISO)	
△ F1	2D		F52-0006-05	FUSE(MINI BLADE TYPE)10A	
231	3D		G01-2525-04	TORSION COIL SPRING	
232	3C	*	G01-3203-04	COMPRESSION SPRING	
233	3D		G01-3171-04	TORSION COIL SPRING	
234	3D		G01-3172-04	TORSION COIL SPRING	
235	2C		G01-3173-04	COMPRESSION SPRING	
236	3D	*	G13-1267-04	CUSHION	
237	3D	*	G13-1268-04	CUSHION	
-			H10-4856-12	POLYSTYRENE FOAMED FIXTURE	E3E5
-			H25-0329-04	PROTECTION BAG (280X450X0.03)	
-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
-			H25-1111-04	PROTECTION BAG (280X450X0.03)	E2E4
-		*	H54-2807-03	ITEM CARTON CASE	E3
-		*	H54-2808-03	ITEM CARTON CASE	E5
-		*	H54-2810-03	ITEM CARTON CASE	E2
-		*	H54-2811-03	ITEM CARTON CASE	E4
240	3D	*	J19-5203-03	HOLDER	
241	3D	*	J19-5204-03	HOLDER	
242	2C	*	J19-5205-03	HOLDER	
243	3C	*	J19-5206-02	HOLDER	
244	1C	*	J22-0011-03	MOUNTING HARDWARE ASSY	
250	3C	*	K23-1072-13	KNOB (VOL)	
251	3D		K24-4000-03	KNOB (EJECT)	

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
252	3C		K24-4002-04	KNOB (OPEN)	
253	3C		K25-1521-03	KNOB (1-6)	
254	3C		K25-1522-04	KNOB (DISP)	
255	3C		K25-1523-03	KNOB (PRO)	
256	3C		K25-1524-03	KNOB (FM/AM)	
257	3C		K25-1525-03	KNOB (SRC)	
261	1C		N99-1730-15	SCREW SET	
A	2D		N09-4368-05	MACHINE SCREW	
B	3D		N30-2608-46	PAN HEAD MACHINE SCREW	
C	3C		N80-2006-46	PAN HEAD TAPTITE SCREW	
D	2C		N80-2008-45	PAN HEAD TAPTITE SCREW	
E	2D		N83-3005-46	PAN HEAD TAPTITE SCREW	
F	3D		N84-2005-45	PAN HEAD TAPTITE SCREW	
G	3D		N84-2606-45	PAN HEAD TAPTITE SCREW	
262	1C		T90-0523-05	ANTENNA ADAPTOR	
SYNTHESIZER UNIT (X14-9182-71)					
C1			C90-5242-05	ELECTRO	3300UF 16WV
C2			CK73GB1H103K	CHIP C	0.010UF K
C3			CK73GB1H102K	CHIP C	1000PF K
C4 -6			CK73GB1H103K	CHIP C	0.010UF K
C7			CK73GB1H104K	CHIP C	0.10UF K
C20 ,21			CC73GCH1H221J	CHIP C	220PF J
C22 ,23			CE04CW1E100M	ELECTRO	10UF 25WV
C24 -26			C90-2597-05	ELECTRO	10UF 16WV
C27			CE04CW1H100M	ELECTRO	10UF 50WV
C28			CE04CW1C101M	ELECTRO	100UF 16WV
C29			C90-2597-05	ELECTRO	10UF 16WV
C31			CK73GB1H103K	CHIP C	0.010UF K
C51 -53			CK73GB1H103K	CHIP C	0.010UF K
C54			C90-2594-05	ELECTRO	10UF 10WV
C55			CK73GB1E333K	CHIP C	0.033UF K
C56			CK73GB1A474K	CHIP C	0.47UF K
C57			CK73GB1H472K	CHIP C	4700PF K
C58			C90-2594-05	ELECTRO	10UF 10WV
C59			CK73GB1A474K	CHIP C	0.47UF K
C60			CE04CW1C470M	ELECTRO	47UF 16WV
C61 -64			CK73GB1C104K	CHIP C	0.10UF K
C65 ,66			CK73GB1H103K	CHIP C	0.010UF K
C67			CE04CW1A330M	ELECTRO	33UF 10WV
C68			CC73GCH1H471J	CHIP C	470PF J
C69 ,70			CE04CW1A330M	ELECTRO	33UF 10WV
C71 -73			CC73GCH1H471J	CHIP C	470PF J
C74 ,75			CK73GB1A224K	CHIP C	0.22UF K
C76			CK73GB1H103K	CHIP C	0.010UF K
C102			CK73GB1H103K	CHIP C	0.010UF K
C104			CK73GB1H103K	CHIP C	0.010UF K
C106			CK73GB1H103K	CHIP C	0.010UF K
C108			CK73GB1H103K	CHIP C	0.010UF K
C111			CK73GB1H102K	CHIP C	1000PF K
C112,113			CC73GCH1H270J	CHIP C	27PF J
C114			CK73GB1H103K	CHIP C	0.010UF K
C115			C90-2597-05	ELECTRO	10UF 16WV
C116			CC73GCH1H331J	CHIP C	330PF J

E2 : KRC-594
E4 : KRC-594V

E3 : KRC-594Y
E5 : KRC-594YV

△ indicates safety critical components.

KRC-594/V/Y/YV

PARTS LIST

* New Parts

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Teile ohne **Parts No.** werden nicht geliefert.

SYNTHESIZER UNIT (X14-9182-71)

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
C117			C90-2600-05	ELECTRO 2.2UF 35WV	
C163			CK73GB1A224K	CHIP C 0.22UF K	
C164			C90-2592-05	ELECTRO 10UF 6.3WV	
C165			CK73GB1H103K	CHIP C 0.010UF K	
C166			CK73GB1A224K	CHIP C 0.22UF K	
C201,202			CK73FB1C105K	CHIP C 1.0UF K	
C203			CK73GB1H223K	CHIP C 0.022UF K	
C204			CK73GB1H103K	CHIP C 0.010UF K	
C205			CK73GB1A474K	CHIP C 0.47UF K	
C206			CC73GCH1H151J	CHIP C 150PF J	
C207			C90-2600-05	ELECTRO 2.2UF 35WV	
C208			CK73GB1C104K	CHIP C 0.10UF K	
C210			CK73GB1H103K	CHIP C 0.010UF K	
C211			CE04CW1A470M	ELECTRO 47UF 10WV	
C212			CK73GB1C104K	CHIP C 0.10UF K	
C251-254			C90-5296-05	NP-ELECT 0.22UF 50WV	
C255			C90-2606-05	ELECTRO 0.47UF 50WV	
C256			CE04CW1C220M	ELECTRO 22UF 16WV	
C257			CK73GB1C104K	CHIP C 0.10UF K	
C258			C90-2608-05	ELECTRO 1.0UF 50WV	
C259-266			CK73GB1E473K	CHIP C 0.047UF K	
C301,302			C90-2606-05	ELECTRO 0.47UF 50WV	
C303			CE04CW1A470M	ELECTRO 47UF 10WV	
C304			CK73GB1H103K	CHIP C 0.010UF K	
C351,352			C90-2597-05	ELECTRO 10UF 16WV	
C356			CK73GB1H103K	CHIP C 0.010UF K	
C406			CK73GB1C104K	CHIP C 0.10UF K	
C407,408			CC73GCH1H220J	CHIP C 22PF J	
C409			CE04CW0J470M	ELECTRO 47UF 6.3WV	
C410			CK73GB1H103K	CHIP C 0.010UF K	
CN1			E41-0167-05	PIN ASSY	
CN2			E40-3260-05	PIN ASSY	
CN5			E40-9159-05	FLAT CABLE CONNECTOR	
CN6			E40-5036-05	FLAT CABLE CONNECTOR	
CN9			E40-9184-05	PIN ASSY	
△ J1			E58-0863-15	RECTANGULAR RECEPTACLE	
J2			E56-0834-05	CYLINDRICAL RECEPTACLE	
J3			E63-0887-05	PIN JACK	
J4			E04-0312-05	RF COAXIAL CABLE RECEPTACLE	
△ L1			L33-1063-15	CHOKE COIL	
L3			L33-1123-05	LINE FILTER COIL	
L6 -8			L40-4795-91	SMALL FIXED INDUCTOR(4.7UH,J)	
L10 ,11			L40-4795-91	SMALL FIXED INDUCTOR(4.7UH,J)	
X1			L78-0878-05	RESONATOR (8.388MHZ)	
X2			L77-2793-05	CRYSTAL RESONATOR	
X3			L77-2002-05	CRYSTAL RESONATOR	
E	2D		N83-3005-46	PAN HEAD TAPTITE SCREW	
H	2D		N80-3008-46	PAN HEAD TAPTITE SCREW	
J	2D		N83-3008-46	PAN HEAD TAPTITE SCREW	
K	2D		N83-3020-46	PAN HEAD TAPTITE SCREW	
R1			RK73GB2A823J	CHIP R 82K J 1/10W	
R2			RK73GB2A563J	CHIP R 56K J 1/10W	
R3			RK73GB2A104J	CHIP R 100K J 1/10W	
R4			RK73FB2B203J	CHIP R 20K J 1/8W	

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
R5 ,6			RK73GB2A103J	CHIP R 10K J 1/10W	
R7			RK73GB2A223J	CHIP R 22K J 1/10W	
R8			RD14DB2H332J	SMALL-RD 3.3K J 1/2W	
R9			RD14BB2C333J	RD 33K J 1/6W	
R10			RK73GB2A223J	CHIP R 22K J 1/10W	
R11			RK73GB2A104J	CHIP R 100K J 1/10W	
R12			RK73GB2A473J	CHIP R 47K J 1/10W	
R13			RD14BB2C272J	RD 2.7K J 1/6W	
R14			RD14BB2C224J	RD 220K J 1/6W	
R15			RK73GB2A393J	CHIP R 39K J 1/10W	
R16			RK73GB2A104J	CHIP R 100K J 1/10W	
R22 ,23			RD14BB2C472J	RD 4.7K J 1/6W	
R24 ,25			RK73GB2A103J	CHIP R 10K J 1/10W	
R31			RD14BB2C103J	RD 10K J 1/6W	
R32			RK73GB2A223J	CHIP R 22K J 1/10W	
R33			RK73GB2A473J	CHIP R 47K J 1/10W	
R51			RK73GB2A103J	CHIP R 10K J 1/10W	
R52			RD14DB2H102J	SMALL-RD 1.0K J 1/2W	
R53			RK73FB2B121J	CHIP R 120 J 1/8W	
R54 -56			RK73GB2A104J	CHIP R 100K J 1/10W	
R57 -59			RK73GB2A471J	CHIP R 470 J 1/10W	
R60			RK73FB2B220J	CHIP R 22 J 1/8W	
R61			RK73GB2A473J	CHIP R 47K J 1/10W	
R62			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R63			RK73GB2A333J	CHIP R 33K J 1/10W	
R64			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R65			RK73GB2A224J	CHIP R 220K J 1/10W	
R66			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R67			RK73GB2A203J	CHIP R 20K J 1/10W	
R68 ,69			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R70 ,71			RK73GB2A181J	CHIP R 180 J 1/10W	
R72 -75			RK73GB2A243J	CHIP R 24K J 1/10W	
R76 ,77			RK73GB2A473J	CHIP R 47K J 1/10W	
R78			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R79			RK73GB2A103J	CHIP R 10K J 1/10W	
R80 ,81			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R82 ,83			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R101			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R102			RK73GB2A471J	CHIP R 470 J 1/10W	
R103			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R104			RK73GB2A471J	CHIP R 470 J 1/10W	
R105			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R106			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R111			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R112-114			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R116			RK73GB2A104J	CHIP R 100K J 1/10W	
R117			RK73GB2A100J	CHIP R 10 J 1/10W	
R152-155			RK73GB2A471J	CHIP R 470 J 1/10W	
R157-159			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R160			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R161			RK73GB2A225J	CHIP R 2.2M J 1/10W	
R162			RK73GB2A104J	CHIP R 100K J 1/10W	
R164,165			RK73GB2A473J	CHIP R 47K J 1/10W	
R166			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R167			RK73GB2A474J	CHIP R 470K J 1/10W	

KRC-594/V/Y/YV

PARTS LIST

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SYNTHESIZER UNIT (X14-9182-71)

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on	Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
R168			RK73GB2A102J	CHIP R 1.0K J 1/10W		D258			AM01Z	DIODE	
R169,170			RK73GB2A474J	CHIP R 470K J 1/10W		D269-271			1SS133	DIODE	
R171			RK73GB2A104J	CHIP R 100K J 1/10W		D301-304			MA4062-L	ZENER DIODE	
R201			RK73GB2A103J	CHIP R 10K J 1/10W		D307,308			MA4062-L	ZENER DIODE	
R202-204			RK73GB2A472J	CHIP R 4.7K J 1/10W		D309-311			MA4068(N)-M	ZENER DIODE	
R205			RK73GB2A222J	CHIP R 2.2K J 1/10W		D401			1SS133	DIODE	
R206-208			RK73GB2A102J	CHIP R 1.0K J 1/10W		D403			DA204U	DIODE	
R209,210			RK73GB2A103J	CHIP R 10K J 1/10W		IC1			MN101C49HNA	MI-COM IC	
R251			RK73GB2A333J	CHIP R 33K J 1/10W		IC2			TDA7407D	ANALOGUE IC	
R252,253			RK73GB2A473J	CHIP R 47K J 1/10W		IC3			TDA3682ST	ANALOGUE IC	
R254			RK73GB2A152J	CHIP R 1.5K J 1/10W		IC4			TA8263BH	ANALOGUE IC	
R255			RK73GB2A101J	CHIP R 100 J 1/10W		IC6			HD74HC27FP	MOS-IC	
R256			RK73GB2A103J	CHIP R 10K J 1/10W		IC7			TDA7479AD	ANALOGUE IC	
R257			RK73GB2A153J	CHIP R 15K J 1/10W		IC8			PST3435UL	MOS-IC	
R259-262			RK73GB2A103J	CHIP R 10K J 1/10W		IC9			CXA2560Q	ANALOGUE IC	
R266			RK73GB2A104J	CHIP R 100K J 1/10W		IC11			LB1930M	ANALOGUE IC	
R301,302			RK73EB2E100J	CHIP R 10 J 1/4W		Q1 -3			2SC4081	TRANSISTOR	
R303			RK73EB2E101J	CHIP R 100 J 1/4W		Q4			2SA1036K	TRANSISTOR	
R304,305			RK73EB2E472J	CHIP R 4.7K J 1/4W		Q5			2SC4081	TRANSISTOR	
R306			RK73EB2E4R7J	CHIP R 4.7 J 1/4W		Q51			2SB1443	TRANSISTOR	
R307-309			RK73EB2E472J	CHIP R 4.7K J 1/4W		Q52			DTC114EUA	DIGITAL TRANSISTOR	
R310,311			RK73EB2E101J	CHIP R 100 J 1/4W		Q52			KRC402	DIGITAL TRANSISTOR	
R312-315			RK73GB2A104J	CHIP R 100K J 1/10W		Q52			UN5211	DIGITAL TRANSISTOR	
R351,352			RK73FB2B361J	CHIP R 360 J 1/8W		Q53			2SC5103	TRANSISTOR	
R355,356			RK73GB2A223J	CHIP R 22K J 1/10W		Q54			DTC124EUA	DIGITAL TRANSISTOR	
R357,358			RK73FB2B181J	CHIP R 180 J 1/8W		Q54			KRC403	DIGITAL TRANSISTOR	
R374			RK73EB2E102J	CHIP R 1.0K J 1/4W		Q54			UN5212	DIGITAL TRANSISTOR	
R410,411			RK73GB2A104J	CHIP R 100K J 1/10W		Q101			DTC143TUA	DIGITAL TRANSISTOR	
R413,414			RK73GB2A104J	CHIP R 100K J 1/10W		Q101			KRC410	DIGITAL TRANSISTOR	
R417,418			RK73GB2A104J	CHIP R 100K J 1/10W		Q101			UN5216	DIGITAL TRANSISTOR	
R421			RK73GB2A104J	CHIP R 100K J 1/10W		Q151			DTA114YUA	DIGITAL TRANSISTOR	
R422			RK73GB2A103J	CHIP R 10K J 1/10W		Q151			KRA307	DIGITAL TRANSISTOR	
VR1 ,2			R12-3100-05	TRIMMING POT.(10K)		Q151			UN5114	DIGITAL TRANSISTOR	
W102,103			R92-1252-05	CHIP R 0 OHM J 1/16W		Q152			2SA1576A	TRANSISTOR	
S1			S74-0821-05	MICRO SWITCH		Q201			DTC143TUA	DIGITAL TRANSISTOR	
D1			1N5393G-M6	DIODE		Q201			KRC410	DIGITAL TRANSISTOR	
D2 -4			MA4068(N)-M	ZENER DIODE		Q201			UN5216	DIGITAL TRANSISTOR	
D22 -25			AM01Z	DIODE		Q350			DTA124EUA	DIGITAL TRANSISTOR	
D31			HZS5B1	ZENER DIODE		Q350			KRA303	DIGITAL TRANSISTOR	
D51			AM01Z	DIODE		Q350			UN5112	DIGITAL TRANSISTOR	
D52			MA4043-M	ZENER DIODE		Q351,352			DTC143TUA	DIGITAL TRANSISTOR	
D151-155			MA4062-L	ZENER DIODE		Q351,352			KRC410	DIGITAL TRANSISTOR	
D157,158			MA4062-L	ZENER DIODE		Q351,352			UN5216	DIGITAL TRANSISTOR	
D160-162			MA4062-L	ZENER DIODE		TH1			PTH9C42BE471Q	POSITIVE RESISTOR	
D163			MA8062	ZENER DIODE		A1	2D		X86-3722-70	FRONT-END UNIT	
D164,165			DA204U	DIODE		SWITCH UNIT (X16-2032-7x)					
D203			1SS133	DIODE		279	3C		B11-1399-04	COLOR FILTER	E4E5
D251			S1J	DIODE		280	3C		B11-1396-04	OPTICAL DIFFUSER	
D252			AM01Z	DIODE		281	2C		B11-1397-04	REFLECTION SHEET	E2E3
D253			S1J	DIODE		281	2C		B11-1398-04	REFLECTION SHEET	E4E5
D254			AM01Z	DIODE		282	2C		B19-2199-03	LIGHTING BOARD	
D255			S1J	DIODE		D1 -14			B30-1605-05	LED(2COLOR PG/RED)	
D256			AM01Z	DIODE		D15			B30-1564-05	LED(1608,BLUE)	
D257			S1J	DIODE		D17 ,18			B30-1571-05	LED(WHITE)	

E2 : KRC-594
E4 : KRC-594V

E3 : KRC-594Y
E5 : KRC-594YV

△ indicates safety critical components.

KRC-594/V/Y/YV

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

SWITCH UNIT (X16-2032-7x)

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
D19 ,20 ED1 ED1			B30-1566-05 B38-1106-05 B38-1107-05	LED(1608,RED) LIQUID CRYSTAL LIQUID CRYSTAL	E2E3 E4E5
C5 C6 C7 -9 C11 ,12			CK73GB1H103K CK73FB1A225K CK73GB1H103K CK73GB1H103K	CHIP C 0.010UF K CHIP C 2.2UF K CHIP C 0.010UF K CHIP C 0.010UF K	
283 J1	3C		E29-1925-04 E59-0829-05	CONDUCTIVE RUBBER RECTANGULAR PLUG	
284	3C	*	F09-1823-04	SHEET	
CP1 CP3 CP4 ,5 R2 R4			R90-0714-05 R90-1016-05 R90-0724-05 RK73GB2A4R7J RK73GB2A102J	MULTI-COMP 10K X4 MULTI-COMP 470 X4 MULTI-COMP 1K X4 CHIP R 4.7 J 1/10W CHIP R 1.0K J 1/10W	
R5 R6 R7 ,8 R9 R10 ,11			RK73GB2A101J RK73GB2A102J RK73GB2A222J RK73GB2A102J RK73GB2A222J	CHIP R 100 J 1/10W CHIP R 1.0K J 1/10W CHIP R 2.2K J 1/10W CHIP R 1.0K J 1/10W CHIP R 2.2K J 1/10W	
R12 -15 R16 R17 R18			RK73FB2B331J RK73FB2B361J RK73FB2B331J RK73FB2B271J	CHIP R 330 J 1/8W CHIP R 360 J 1/8W CHIP R 330 J 1/8W CHIP R 270 J 1/8W	
S24			T99-0446-05	ROTARY ENCODER	
IC1 IC2 Q1 Q2 ,3 Q4			NJU6535 PNA4S22M DTA114EUA 2SC4081 DTC144EUA	MOS-IC ANALOGUE IC DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	
DAUGHTER UNIT (X89-2570-11)					
C1			CK73GB1H103K	CHIP C 0.010UF K	
CN1 J1			E41-0169-05 E58-0865-05	SOCKET FOR PIN ASSY RECTANGULAR RECEPTACLE	
R1 R2 -5 R6 ,7 R8 -10 R11 -13			RK73EB2E102J RK73EB2E471J RK73EB2E102J RK73EB2E471J RK73EB2E102J	CHIP R 1.0K J 1/4W CHIP R 470 J 1/4W CHIP R 1.0K J 1/4W CHIP R 470 J 1/4W CHIP R 1.0K J 1/4W	
S1			S70-0871-05	TACT SWITCH	
CASSETTE MECHANISM ASSY (D40-1147-05)					
1 4 5 6 7	2B 2B 3A 3A 3A		A10-4630-08 D10-4375-08 D13-1494-08 D13-1495-08 D13-1496-08	CHASSIS ASSY SLIDER GEAR GEAR GEAR	
9 10 11 12 15	1B 2B 2B 2B 2B		D10-4376-08 J90-0948-08 D15-0919-08 D13-1497-08 J21-9458-08	ARM GUID PULLEY GEAR MOUNTING HARDWARE	

Ref. No.	A d d	N e w	Parts No.	Description	Dest inati on
17 20 21 22 23	2B 2A 1A 3B 2A		G02-1332-08 D13-1498-08 D10-4377-08 D10-4378-08 D10-4379-08	FLAT SPRING RACK (GEAR) LEVER LEVER LEVER	
24 25 26 27 30	1A 1A 3A 3A 2B		D10-4380-08 G01-2960-08 D13-1499-08 D10-4381-08 D10-4382-08	LEVER TENSION COIL SPRING GEAR ARM ARM ASSY	
31 44 45 48 49	2B 2A 2A 3B 3B		D10-4383-08 E39-0425-08 J11-0632-08 D01-0613-08 D16-0616-08	ARM ASSY LEAD WIRE CLAMPER FLYWHEEL ASSY BELT	
52 53 54 56 57	1B 1B 1A 1B 1B		D10-4385-08 J19-4953-08 G11-1861-08 D10-4386-08 G01-2962-08	ARM HOLDER CUSHION ARM ASSY TENSION COIL SPRING	
58 65 66 67 91	1B 2A 2A 2A 3A		D10-4387-08 B09-0522-08 G01-2963-08 D03-0314-08 J26-4043-08	SLIDER CAP COMPRESSION COIL SPRING REEL DISK ASSY PRINTED WIRING BOARD ASSY	
92 94	3A 3A		E39-0424-08 T95-0245-08	FLAT CABLE PHOTO COUPLER	
A B C D E	3A 2A 2B 2A 2A		N09-4324-08 N19-2136-08 N09-4325-08 N09-4326-08 N09-4058-08	MACHINE SCREW FLAT WASHER MACHINE SCREW MACHINE SCREW SEMS (MACHINE SCREW)	
F G H J K	2B 2B 2B 3B 3B		N19-2038-08 N19-2136-08 N19-2137-08 N19-2138-08 N09-4327-08	FLAT WASHER FLAT WASHER FLAT WASHER FLAT WASHER SCREW	
N	1B		N19-2139-08	FLAT WASHER	
CM1 CM2 HD1	1A 1A 2B		T42-1002-08 T42-1001-08 T31-0230-08	MOTOR ASSY (MAIN) MOTOR ASSY (SUB) PLAYBACK HEAD	

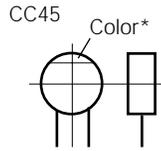
KRC-594/V/Y/YV

PARTS LIST

CAPACITORS

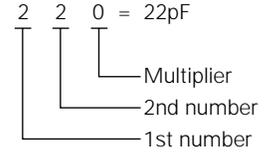
CC 45 TH 1H 220 J
 1 2 3 4 5 6

- 1 = Type ... ceramic, electrolytic, etc.
- 2 = Shape ... round, square, etc.
- 3 = Temp. coefficient
- 4 = Voltage rating
- 5 = Value
- 6 = Tolerance



• Capacitor value

- 010 = 1pF
- 100 = 10pF
- 101 = 100pF
- 102 = 1000pF = 0.001μF
- 103 = 0.01μF



• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470±60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF : -10~+50 Less than 4.7μF : -10~+75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

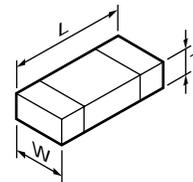
• Voltage rating

2nd word \ 1st word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	2150	4000	5000	6300	8000	-

CHIP CAPACITORS

- (EX) CC 73 F SL 1H 000 J
 1 2 3 4 5 6 7
- (Chip) (CH, RH, UJ, SL)
- (EX) CK 73 F F 1H 000 Z
 1 2 3 4 5 6 7
- (Chip) (B, F)
- Refer to the table above.
- 1 = Type
 - 2 = Shape
 - 3 = Dimension
 - 4 = Temp. coefficient
 - 5 = Voltage rating
 - 6 = Value
 - 7 = Tolerance

• Dimension



Chip capacitor

Code	L	W	T
Empty	5.6±0.5	5.0±0.5	Less than 2.0
A	4.5±0.5	3.2±0.4	Less than 2.0
B	4.5±0.5	2.0±0.3	Less than 2.0
C	4.5±0.5	1.25±0.2	Less than 1.25
D	3.2±0.4	2.5±0.3	Less than 1.5
E	3.2±0.2	1.6±0.2	Less than 1.25
F	2.0±0.3	1.25±0.2	Less than 1.25
G	1.6±0.2	0.8±0.2	Less than 1.0
H	1.0±0.05	0.5±0.05	0.5±0.05

Chip resistor

Code	L	W	T
E	3.2±0.2	1.6±0.2	1.0
F	2.0±0.3	1.25±0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1
H	1.0±0.05	0.5±0.05	0.35±0.05

RESISTORS

• Chip resistor (Carbon)

- (EX) RD 73 E B 2B 000 J
 1 2 3 4 5 6 7
- (Chip) (B, F)

• Carbon resistor (Normal type)

- (EX) RD 14 B B 2C 000 J
 1 2 3 4 5 6 7
- (Chip) (B, F)

- 1 = Type ... ceramic, electrolytic, etc.
- 2 = Shape ... round, square, etc.
- 3 = Dimension
- 4 = Temp. coefficient
- 5 = Voltage rating
- 6 = Value
- 7 = Tolerance

• Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

KRC-594/V/Y/YV

SPECIFICATIONS

FM tuner section

Frequency range (MHz) 87.5MHz-108.0MHz
(Frequency step) (50kHz)
Usable sensitivity (S/N = 26dB) 0.7 μ V/75 Ω
Quieting sensitivity (S/N = 46dB) 1.6 μ V/75 Ω
Frequency response (\pm 3.0dB) 30Hz-15kHz
S/N (dB) 65dB (MONO)
Selectivity (DIN) (dB) \geq 80dB (\pm 400kHz)
Stereo separation 35dB (1kHz)

MW (AM) tuner section

Frequency range (kHz) 531kHz-1611kHz
(Frequency step) (9kHz)
Usable sensitivity (S/N 20dB) 25 μ V

LW tuner section

Frequency range (kHz) 153kHz-281kHz
Usable sensitivity (S/N 20dB) 45 μ V

Cassette section

Tape speed 4.76cm/sec.
Wow&Flutter (wrms) (%) 0.08 (%) (WRMS)
Frequency response (Hz) 30~20kHz (70 μ s)
(\pm 3.0dB)
Separation (dB) 43dB (1kHz)
S/N (dB) Dolby NR OFF 57dB
Dolby BNR ON 65dB

Preout level (mV) / Load- Unbalanced

..... 2000mV/10k Ω (CD/CD-CH)

Preout impedance (Ω)

..... \leq 600 Ω

Amplifier section

PWR (MAX) 47Wx4
PWR DIN45324,+B=14.4V 29Wx4

TONE section

Bass 100Hz \pm 10dB
Middle 1kHz \pm 10dB
Treble 10kHz \pm 10dB

General

Operating voltage 14.4V
(11 - 16V allowable)
Current consumption 10A
Installation size (W) 182mm
(H) 53mm
(D) 155 mm
Weight 1.20kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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KENWOOD CORPORATION

2967-3, Ishikawa-machi, Hachioji-shi, Tokyo 192-8525, Japan

KENWOOD USA CORPORATION

P.O. BOX 22745, 2201 East Dominguez Street, Long Beach, CA90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O. Box 55-2791 Paitilla, Plaza Credicorp Bank Panama,
Piso 9, Oficina 901, Calle 50, Panama, Rep. de Panama

KENWOOD ELECTRONICS BRASIL LTDA.

Alameda Ministro Rocha Azevedo No. 456,
Edificio Jaú, 10o Andar, Cerqueira César, Cep 0140-001,
São Paulo-SP-Brasil

KENWOOD ELECTRONICS UK LIMITED

Kenwood House, Dwight Road, Watford, Herts, WD18 9EB, United Kingdom

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker-Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.

13, Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS BELGIUM N.V.

Leuvensesteenweg 248 J, 1800 Vilvoorde, Belgium

KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sirtori 7/9, 20129 Milano, Italy

KENWOOD IBÉRICA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N. 001 499 074)

16 Giffnock Avenue, Centrecourt Estate, North Ryde,
N.S.W. 2113, Australia

KENWOOD ELECTRONICS (HONG KONG) LTD.

Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong, N.T.,
Hong Kong

KENWOOD ELECTRONICS GULF FZE

P.O. Box 61318, Jebel Ali, Dubai, U.A.E.

KENWOOD ELECTRONICS (THAILAND) CO., LTD.

2019 New Pechburi Road, Bangkapi, Huaykwang, Bangkok, 10320 Thailand

KENWOOD ELECTRONICS SINGAPORE PTE. LTD.

1 Genting Lane, #07-00, Kenwood Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD

#4.01 Level 4, Wisma Academy Lot 4A, Jalan 19/1, 46300 Petaling Jaya, Selangor Darul Ehsan,
Malaysia