

CASSETTE RECEIVER

KRC-478R/RV/RV/RV/RV

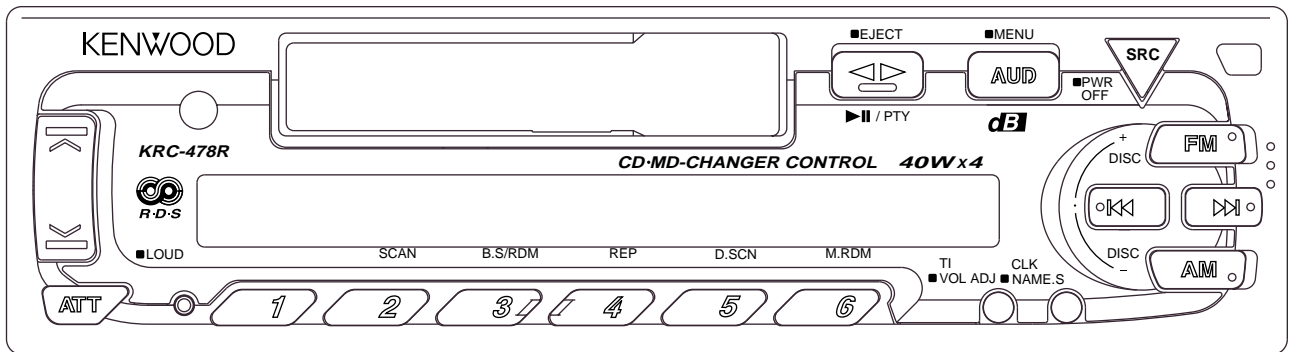
SERVICE MANUAL

KENWOOD

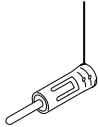
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B51-7567-00 (K) 1894

MECHANISM EXTENSION CORD
W05-0477-00 (7P)
W05-0609-00 (10P)

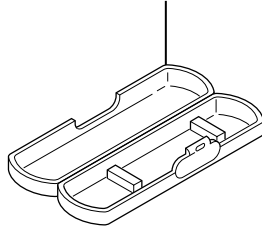
KRC-478R/RV/RV/RV/RV (E)



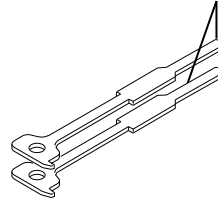
ANTENNA ADAPTOR
(T90-0523-05)



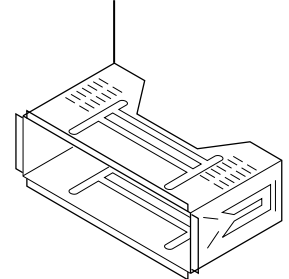
PLASTIC CABINET ASSY
(A02-1486-13)



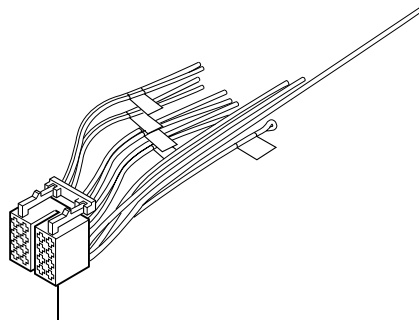
LEVER
(D10-xxxx-xx) x2
(Refer to the parts list.)



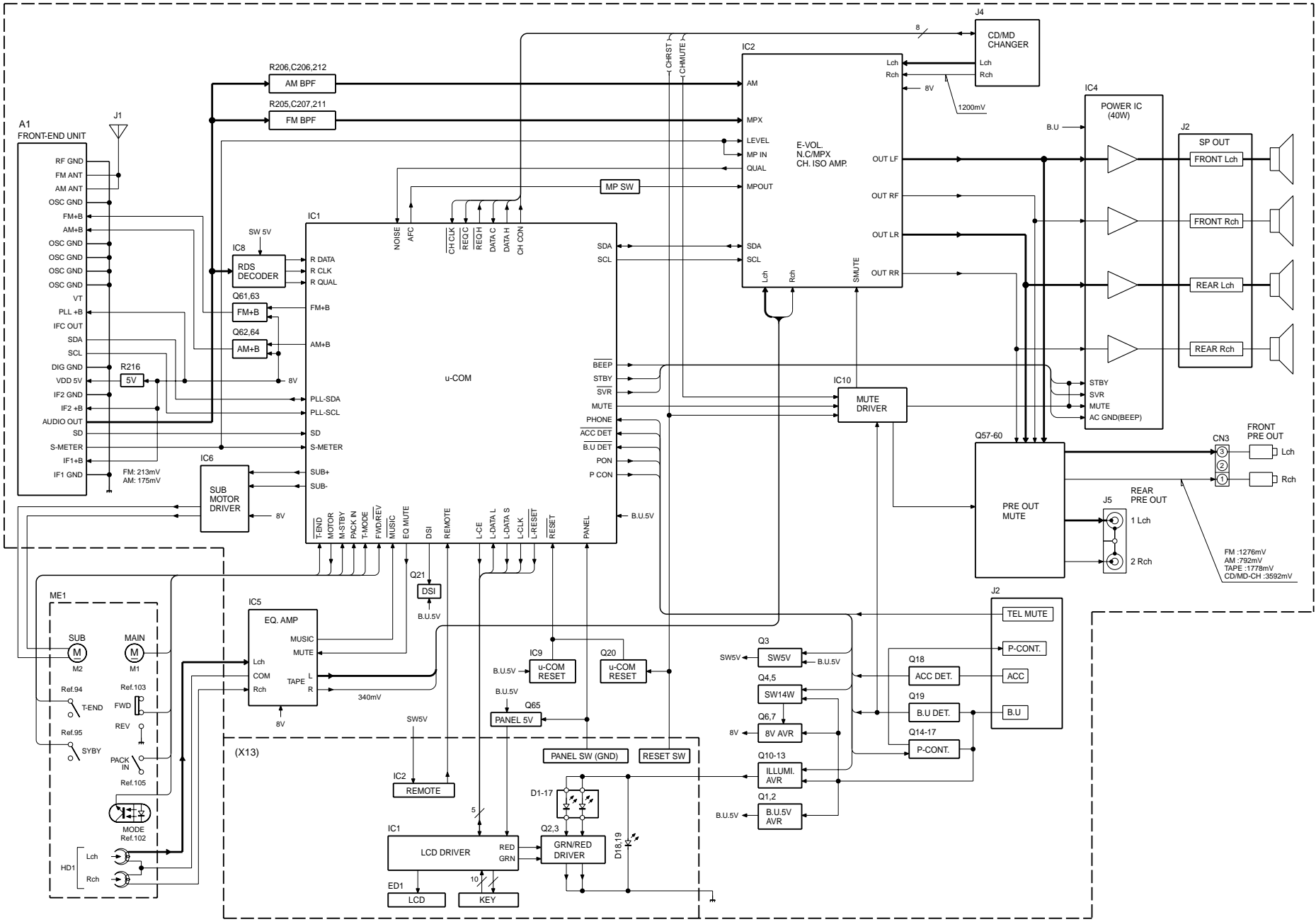
MOUNTING HARDWARE ASSY
(J21-9491-03)



DC CORD
(E30-4792-05)
(KRC-478R/RV only)



BLOCK DIAGRAM



KRC-478R/RV/RV/RV/RV (E/E/E/E)

KRC-478R/RV/RV/RV

COMPONENT DESCRIPTION

SYNTHESIZER UNIT (X14-6xxx-xx)

REF. No.	FUNCTION	OPERATION
IC1	μ -COM	Controls system.
IC2	ELECTRIC VOLUME	Switches each source, decodes FM stereo signal, controls sound.
IC4	POWER IC	Amplifies power so that the speaker can drive audio signal.
IC5	EQUALIZER AMPLIFIER	Amplifies and equalizes the cassette head output signal (120 μ sec).
IC6	SUB MOTOR CONTROLLER	Controls sub motor's loading and eject modes.
IC8	RDS DECODER	Decodes RDS signal from tuner MPX signal.
IC9	μ -COM RESET	Resets μ -COM after detecting the back-up voltage comes less than 3V.
IC10	MUTE DRIVER	Mutes power IC (IC4) and E-volume (IC2) when the back-up is detected and μ -COM mute signal is output.
Q1,2	BACK-UP 5V AVR	Usually output 5V when battery is connected.
Q3	SW 5V	Outputs 5V when μ -COM makes Q3's base level "L".
Q4,5	SW 14V	Q4's corrector outputs the back-up 14V when μ -COM makes Q5's base level "H".
Q6,7	8V AVR	Output 8V.
Q8,9	MAIN MOTOR SW	Output 14V when μ -COM makes Q9's base level "H".
Q10-13	ILLUMINATION AVR	Q12's corrector outputs 10.3V when μ -COM makes Q11's base level "H".
Q14	P-CON. START-UP	Cancels Q15's protection circuit effected by C9 time constant and Q14's inner base resistor.
Q15	P-CON. PROTECTION CIRCUIT	Stops output signal, and makes Q16's base level "H" when P-CON output comes GND shorted.
Q16,17	P-CON. SW	Outputs the back-up 14V when Q17's base level comes "H".
Q18	ACC DETECTION	Corrector level comes "L" when ACC comes "ON". Detection voltage : 8.95V.
Q19	BACK-UP DETECTION	Corrector level comes "L" when the back-up comes "ON". Detection voltage : 9.0V.
Q20	μ -COM RESET	Resets μ -COM when Q20's base level comes "H".
Q21	DSI	Indicates when Q21's base level comes "H".
Q51	POWER AMPLIFIER SVR CONTROLLER	SVR level comes "L" when μ -COM makes Q51's base level "H".
Q52	PREOUT MUTE CONTROLLER	Mutes preout sound when Q52's base level comes "L".
Q53	ELECTRIC VOLUME MUTE	Mutes E-volume (IC2) signal when Q53's base level comes "H".
Q54,55	AFC	Switches AFC time constant.
Q56	MPX BUFFER	For the front-end MPX output buffer (Emitter follower).
Q57-60	PREOUT MUTE CONTROLLER	Mutes preout sound when Q52's base level comes "L".
Q61	FM+B SW	"ON" when Q61's base level comes "H".
Q62	AM+B SW	"ON" when Q62's base level comes "H".
Q63	FM+B SW	"ON" when Q61's base level comes "H".
Q64	AM+B SW	"ON" when Q62's base level comes "H".
Q65	PANEL SW	"ON" when Q65's base level comes "L" (Panel OFF).
Q67	NOISE BUFFER	For E-volume (IC2) output buffer (Emitter follower).

KRC-478R/RV/RV/RV/RV

CIRCUIT DESCRIPTION

(X14-) IC1 : μ -COM

PORT No.	PORT NAME	I/O	FUNCTION	OPERATING CONDITION
1	AV CONT	O	Analogue reference voltage control.	Active "H".
2	IC2 TYPE O	I	Stereo signal data switch.	-
3	IC2 TYPE 1	I	Stereo signal data switch.	-
4	AVSS	-	Analogue GND.	-
5	MOTOR	O	Cassette mechanism power supply control.	"H" : Mechanism motor +B "ON". "L" : Mechanism motor +B "OFF".
6	M-STBY	I	Stand-by signal input from the cassette mechanism.	"H" when the stand-by signal exists. "L" when the other signal exists.
7	AV REF 1	-	5V power supply for D/A converter reference voltage.	-
8	ILLUMI	O	Illumination power supply control.	"H" : Illumi. "ON" or the ALL OFF mode. "L" : Illumi. "OFF".
9	L-RESET	O	Reset signal output to LCD driver (X13-).	"L" : Reset.
10	PANEL	I	Panel detection signal input.	"H" : Panel OFF. "L" : Panel ON.
11	L-DATA L	I	Data input from LCD driver.	-
12	L-DATA S	O	Data output from LCD driver.	-
13	L-CLK	O	Data clock output from LCD driver.	-
14,15	N.C.	-	-	-
16	CH-DATA C	I	Data input from the changer.	-
17	CH-DATA H	O	Data output to the changer.	-
18	CH-CLK	I/O	Changer communication clock input and output.	-
19	L-CE	O	LCD driver data control.	Active "H".
20	SUB+	O	Sub motor control signal output.	-
21	SUB-	O	Sub motor control signal output.	-
22	MS-CONT	O	No audio signal detection level switch to equalizer amplifier.	"H" : PLAY. "L" : FF/REW.
23	EQ-MUTE	O	Mute control signal output to equalizer amplifier.	"H" : FF/REW or the other source. "L" : TAPE PLAY.
24	PLL-SCL	O	Communication clock signal output to the front-end.	-
25	AM+B	O	Front-end's AM power supply control output.	"H" : AM+B "ON".
26	FM+B	O	Front-end's FM power supply control output.	"H" : FM+B "ON".
27	N.C.	-	-	-
28	DSI	O	DSI's LED on/off switch.	"H" : LED "ON".
29	MUSIC	I	No audio signal detection level input to equalizer amplifier.	"H" when audio signal does not exist. "L" when audio signal exists.
30	FWD/REV	I	Tape FWD/REW signal input.	"H" : Forward. "L" : Reverse.
31	R-DATA	I	Data input from RDS decoder.	-
32	R-QUAL	I	Qual input from RDS decoder.	-
33	VSS1	-	GND.	-
34	SD	I	SD signal input from the front-end.	"H" when the carrier signal exists. "L" when the carrier signal does not exist.
35	IC2-SCL	O	Clock output to E-volume (IC2).	-
36	N.C.	-	-	-
37	PLL-SDA	I/O	Data input and output to the front-end.	-
38	IC2-SDA	I/O	Data input and output to E-volume (IC2).	-
39	MUTE	O	Preout and mute signal output to E-volume (IC2).	"H" : Mute "ON". "L" : Mute "OFF".
40	N.C.	-	-	-

KRC-478R/RV/RV/RV

CIRCUIT DESCRIPTION

(X14-) IC1 : μ -COM

PORT No.	PORT NAME	I/O	FUNCTION	OPERATING CONDITION
41	AFC	O	Noise detection time constant switch.	"L" : FM seeking. "H" : The other condition.
42-44	N.C.	-	-	-
45	P-MUTE	O	Mute signal output to the power IC (IC4).	"L" : Power IC (IC4) mute.
46	SVR	O	SVR signal output to the power IC (IC4).	"L" when P.ON goes down.
47	STBY	O	Stand-by signal output to the power IC (IC4).	"H" : Power IC (IC4) "ON". "L" : Power IC (IC4) "OFF".
48	P-CON	O	Control signal output to P-CON or P-ANT.	"H" : P-CON signal output "ON". "L" : P-CON signal output "OFF".
49	N.C.	-	-	-
50	BEEP	O	Buzzer signal output.	Beep sound output.
51	ACC-DET	I	ACC detection signal input.	"H" : ACC "OFF". "L" : ACC "ON".
52	BU-DET	O	Back-up voltage detection signal input.	"H" when back-up signal does not exist. "L" when back-up signal exists.
53	CH-REQ H	O	Request signal output to the changer.	"L" : Request.
54	CH-CON	O	Changer control.	"H" : Changer mode. "L" : The other mode.
55	N.C.	-	-	-
56	SW5	O	SW 5V power control signal output.	"L" : SW 5V "ON".
57	P.ON	O	P.ON power supply control signal output.	"H" : Power "ON". "L" : Power "OFF".
58,59	-	-	-	-
60	RESET	I	System reset signal input.	"L" : Reset. "H" : The other condition.
61	REMOTE	I	Data input from the remote controller.	-
62	R-CLK	I	Data clock input from RDS decoder .	-
63	CH-REQ C	I	Request input signal from the changer.	-
64	PACK IN	I	Insertion detection signal input from cassette mechanism.	"H" : Pack in. "L" : Pack out.
65	KEY-REQ	I	Key request.	Active "L".
66	T-END	I	Tape-end detection signal input from cassette mechanis.	"H" : Tape running. "L" : Tape-end.
67	VSS 0	-	GND.	-
68	VDD 1	-	Power supply.	-
69	X2	-	For main system clock oscillation.	-
70	X1	I	For main system clock oscillation.	-
71	IC/TEST	-	For flash memory writing.	-
72	XT2	-	-	-
73	VDD 0	-	Power supply.	-
74	VDD 0	-	Power supply.	-
75	AV REF 0	I	5V power supply (For A/D converter reference voltage).	-
76	S-METER	I	S-meter voltage input from the front-end.	"H" : SD signal exists. "L" : SD signal does not exist. Vth : Fit the new front-end.
77	T-MODE	I	Tape mode input from cassette mechanism.	Vth : 2.5V.
78	PHONE	I	Phone (Tel-mute) voltage input.	Tel mute : More than 1V. Navi mute : Less than 2.5V.
79	NOISE	I	Voltage input from E-volume (IC2)'s noise amplifier.	-
80	TYPE 0	I	Destination switching.	"H" : KRC-478RV/RV. "L" : The other models.

KRC-478R/RV/RV/RV/RV

TEST MODE

1. How to enter the test mode

- Reset the unit while holding the “FM” key and preset “6” key.
- All indication segments go ON at the beginning of the test mode.

2. How to check the test mode

- Cancel the blank skip (B.S).
- Push the “ATT” key.
- The eject function works.

3. How to release the test mode

- Simply reset the unit.
- (NOTE) The test mode is not canceled by ACC OFF, power OFF, momentary power down or the panel off.

4. Audio adjustment

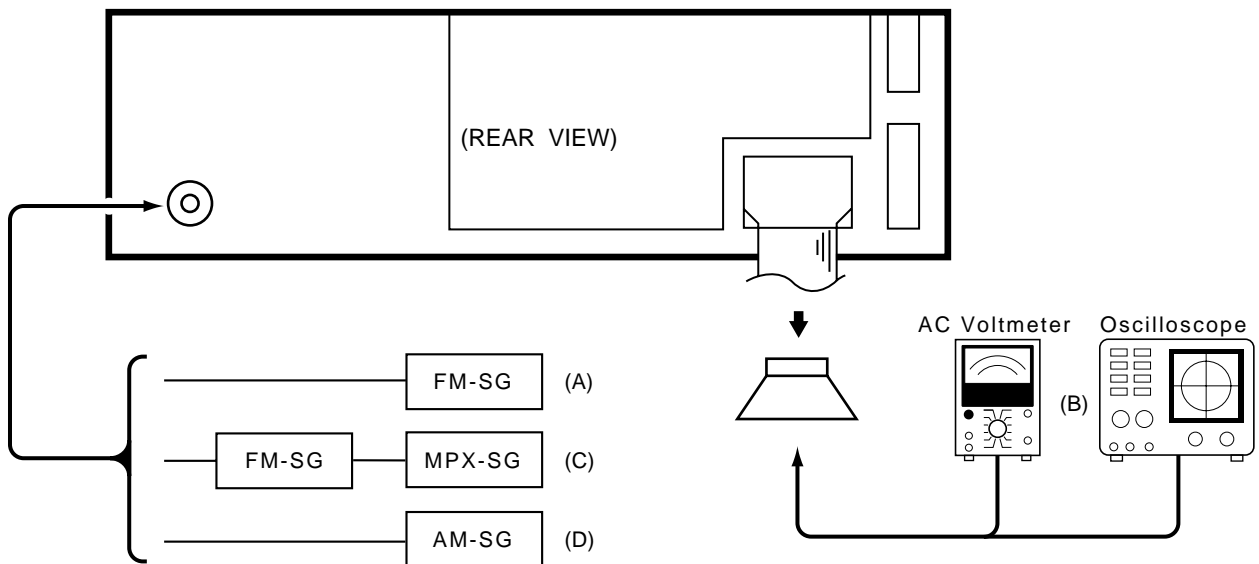
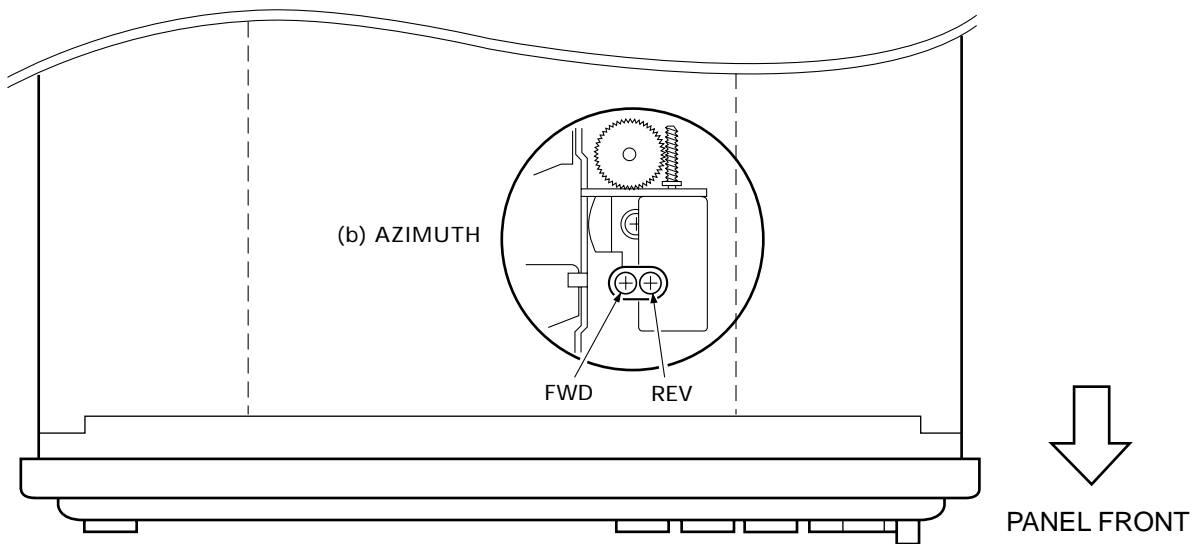
- Set the volume level to -10dB (which is shown as “30” on the display).
- Loudness OFF.
- The BASS/TREBLE and BALANCE/FADER can be set to the full-boost/full-cut and full-front/full-rear each by pressing the “Track UP” / “Track DOWN” keys.
- Sound coordination doesn't appear for the feed.

KRC-478R/RV/RV/RV

ADJUSTMENT

BALANCE/FADER/BASS/TREBLE : CENTER
T.ADV/METAL/DOLBY NR/AUTO : OFF

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
CASSETTE DECK SECTION							
1	AZIMUTH	TCC-153 10KHz	(B)	TAPE PLAY	Head azimuth screw (FWD/REV) (ME1)	Adjust so that output level in playing "FWD" and "REV" becomes maximum each.	(b)



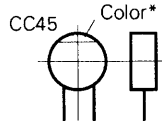
KRC-478R/RV/RV/RV

PARTS DESCRIPTIONS

CAPACITORS

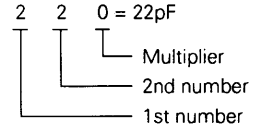
CC 45 TH 1H 220 J
 1 2 3 4 5 6

- 1 = Type ... ceramic, electrolytic, etc.
- 2 = Shape ... round, square, ect.
- 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	3150	4000	5000	6300	8000	-

Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
 1 2 3 4 5 6 7

(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 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 capacitors)

Dimension 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

RESISTORS

Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J
 1 2 3 4 5 6 7

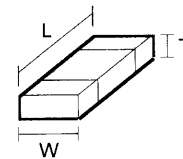
(Chip) (B, F)

Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
 1 2 3 4 5 6 7

- 1 = Type
- 2 = Shape
- 3 = Dimension
- 4 = Temp. coefficient
- 5 = Rating wattage
- 6 = Value
- 7 = Tolerance

Dimension



Dimension (Chip resistor)

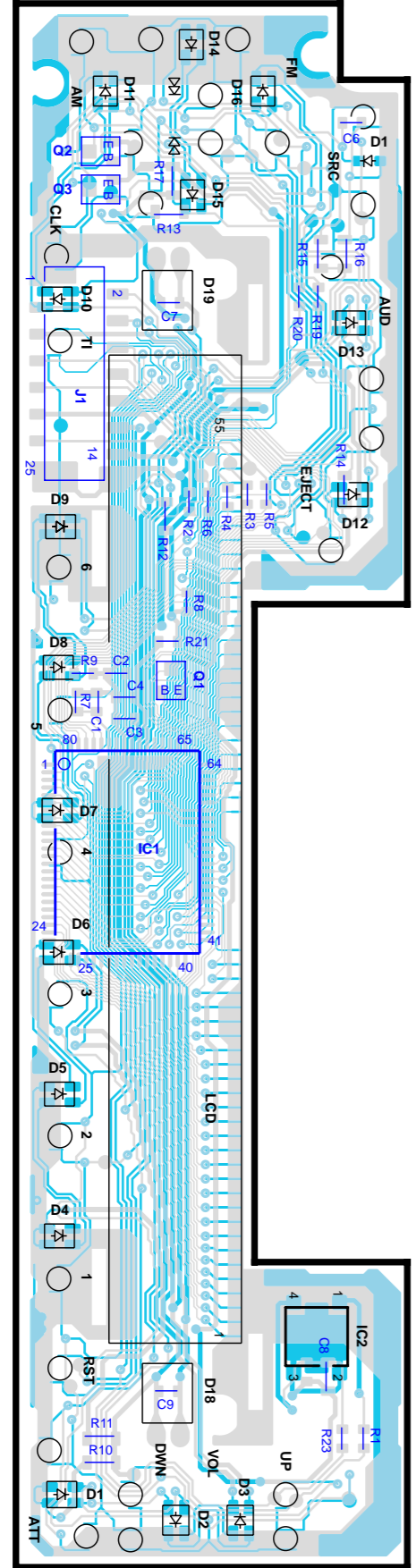
Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1

Rating wattage

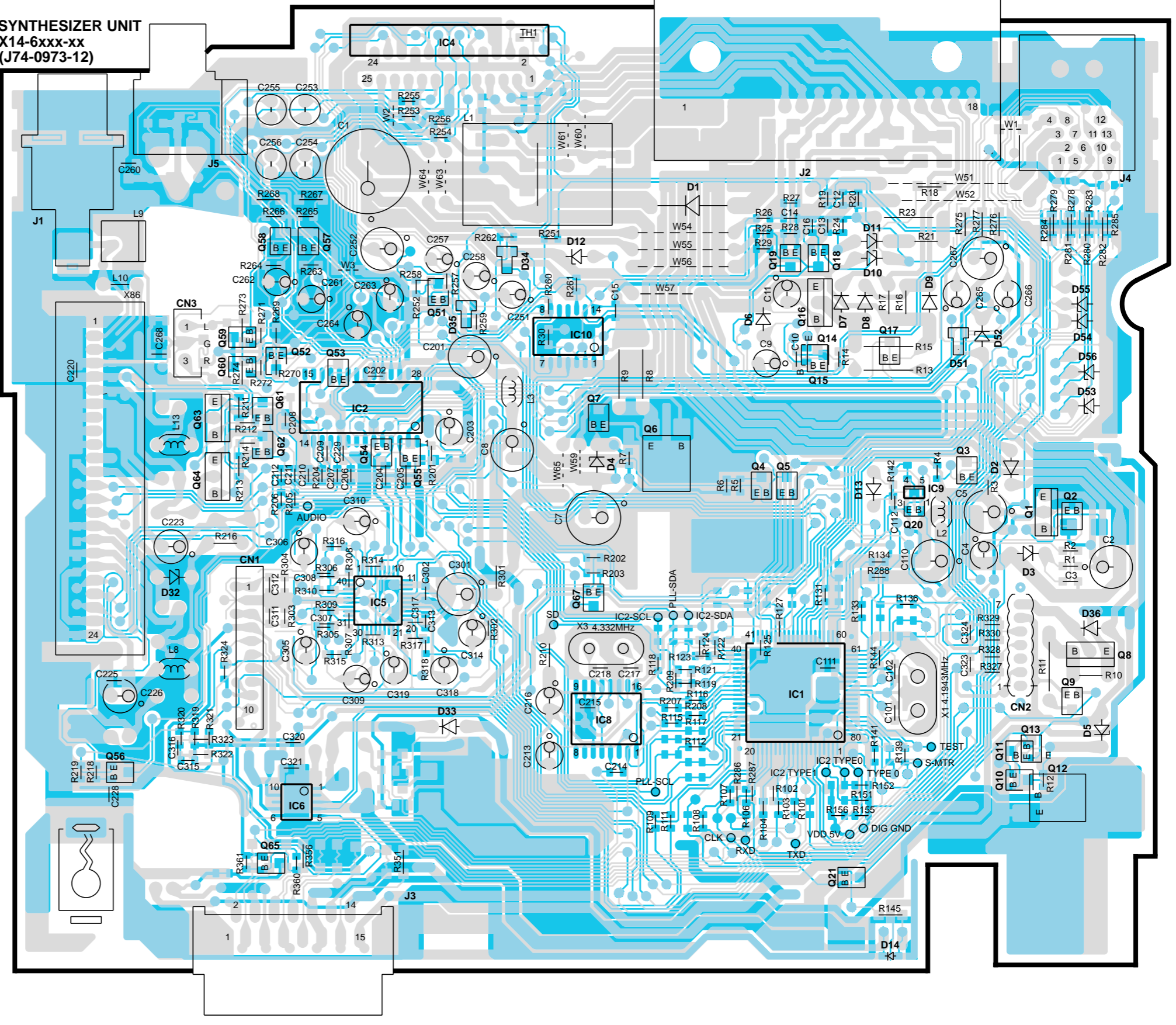
Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

PC BOARD(Foil side view)

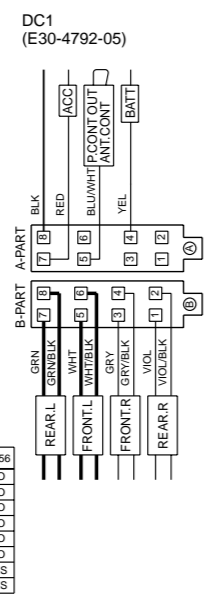
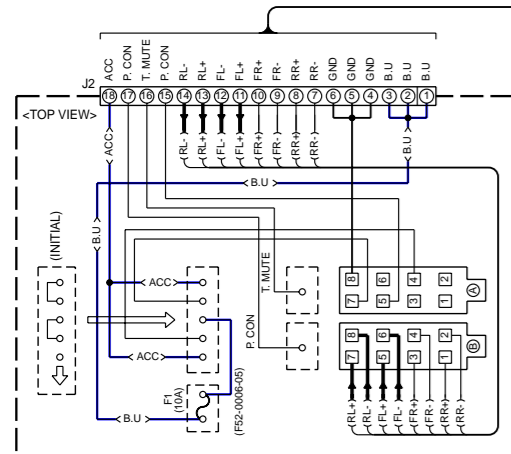
SWITCH UNIT
X13-942x-xx (J74-0818-02)



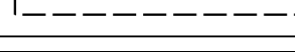
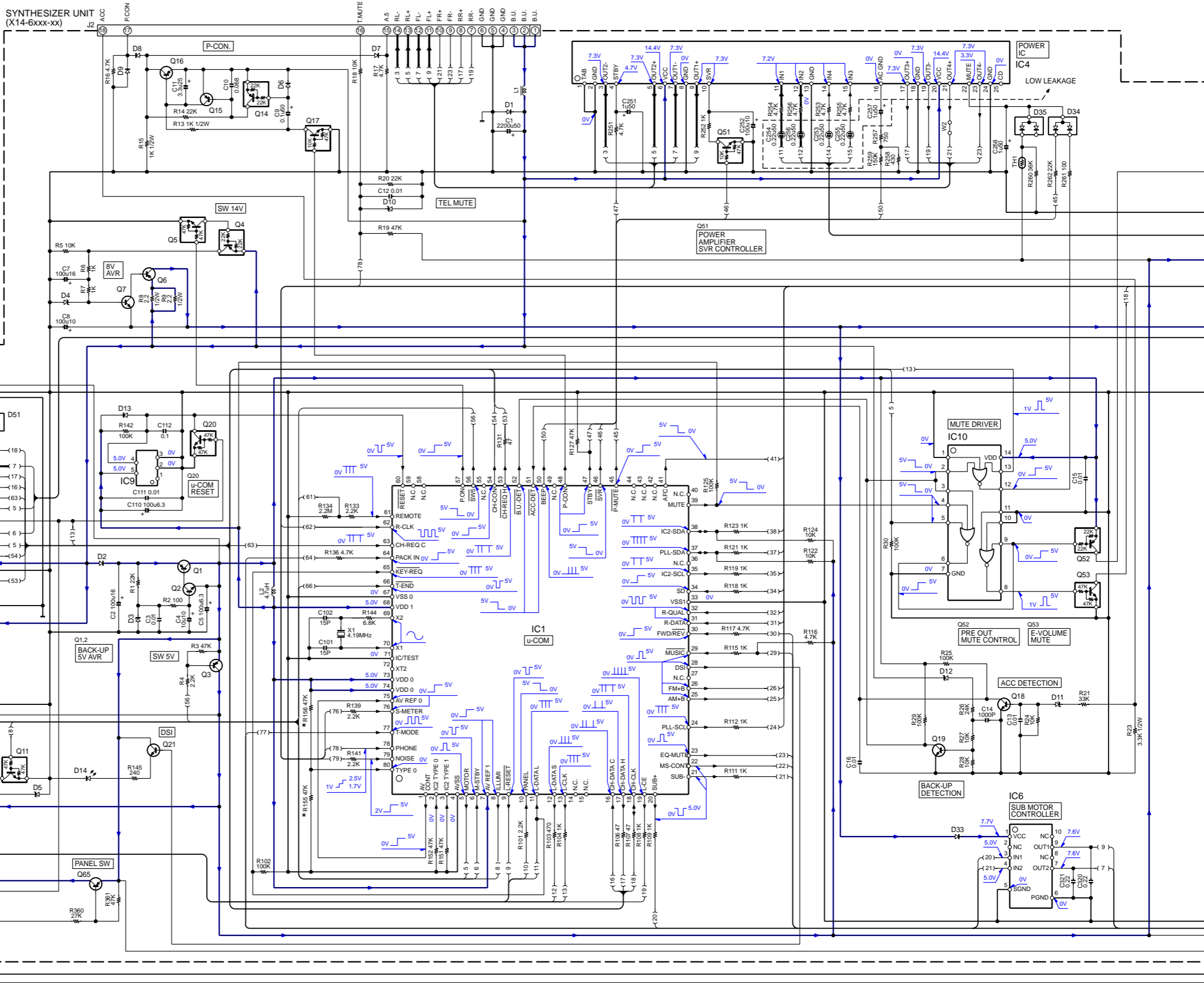
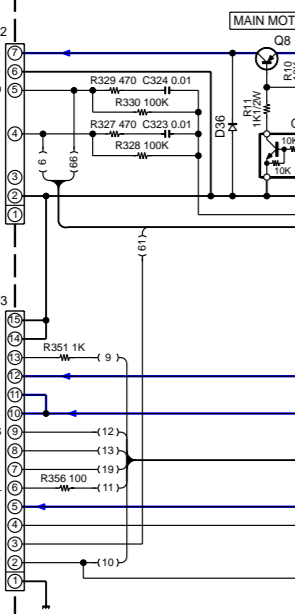
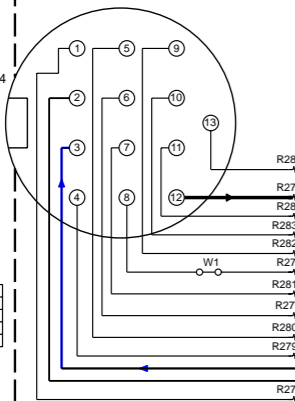
SYNTHESIZER UNIT
X14-6xxx-xx
(J74-0973-12)

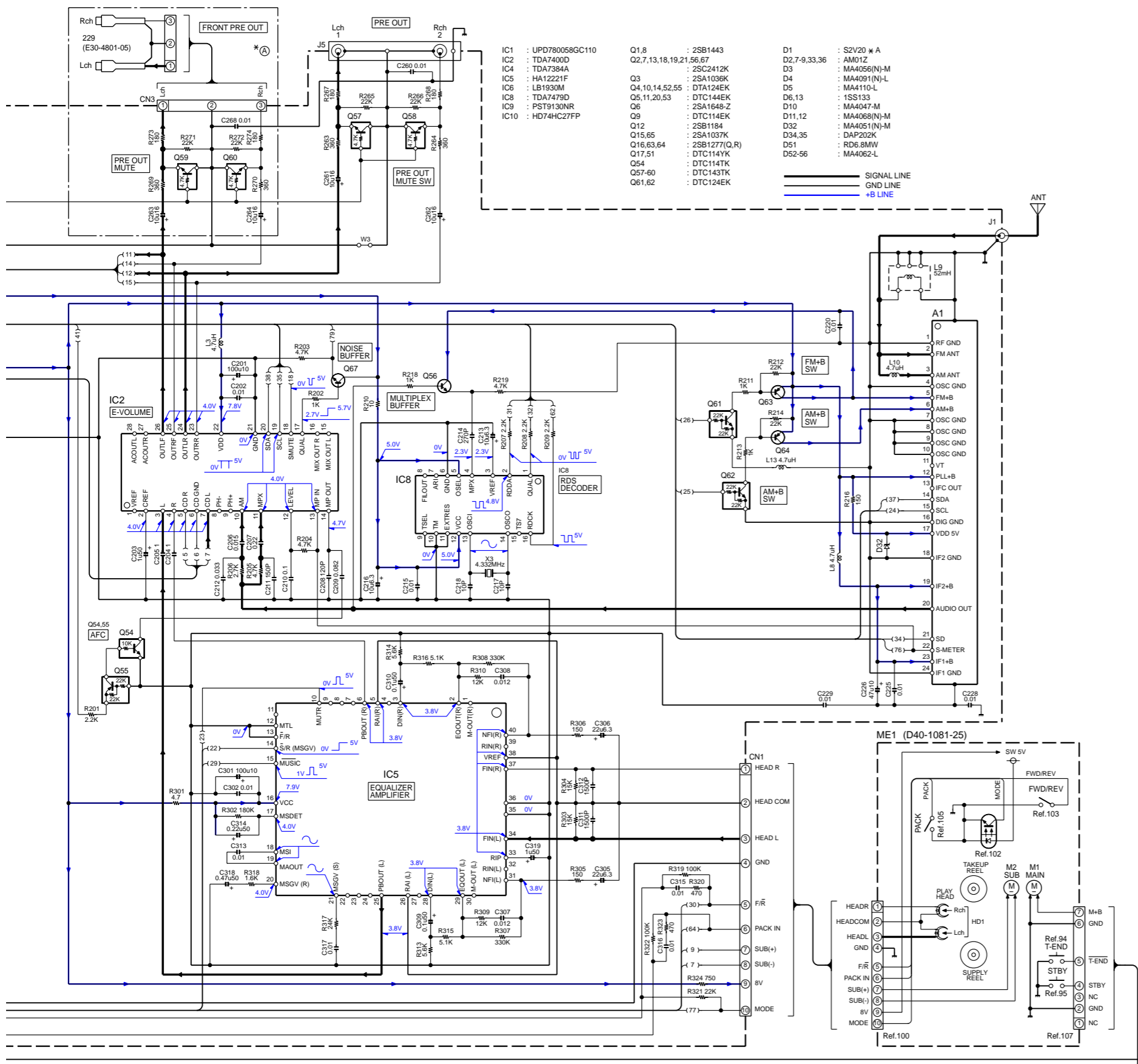


Refer to the schematic diagram for the value of resistors and capacitors.

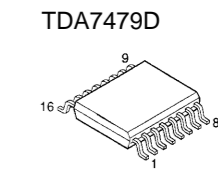
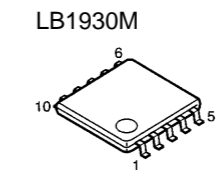
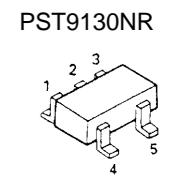
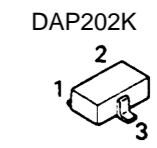
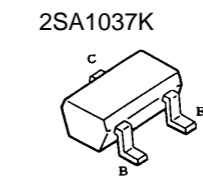
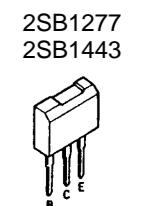
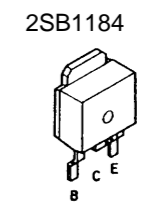


MODEL NAME	UNIT No.	(A)	R155	R156
KRC-478R (E)	X14-6172-70	YES	YES	NO
KRC-478RY (E)	X14-6222-70	YES	YES	NO
KRC-33R (E)	X14-6172-71	NO	YES	NO
KRC-378R (E)	X14-6172-71	NO	YES	NO
KRC-378RY (E)	X14-6222-71	NO	YES	NO
KRC-480R (M)	X14-6172-72	NO	YES	NO
KRC-478RV (E)	X14-6172-72	YES	NO	YES
KRC-478RVY (E)	X14-6222-72	YES	NO	YES





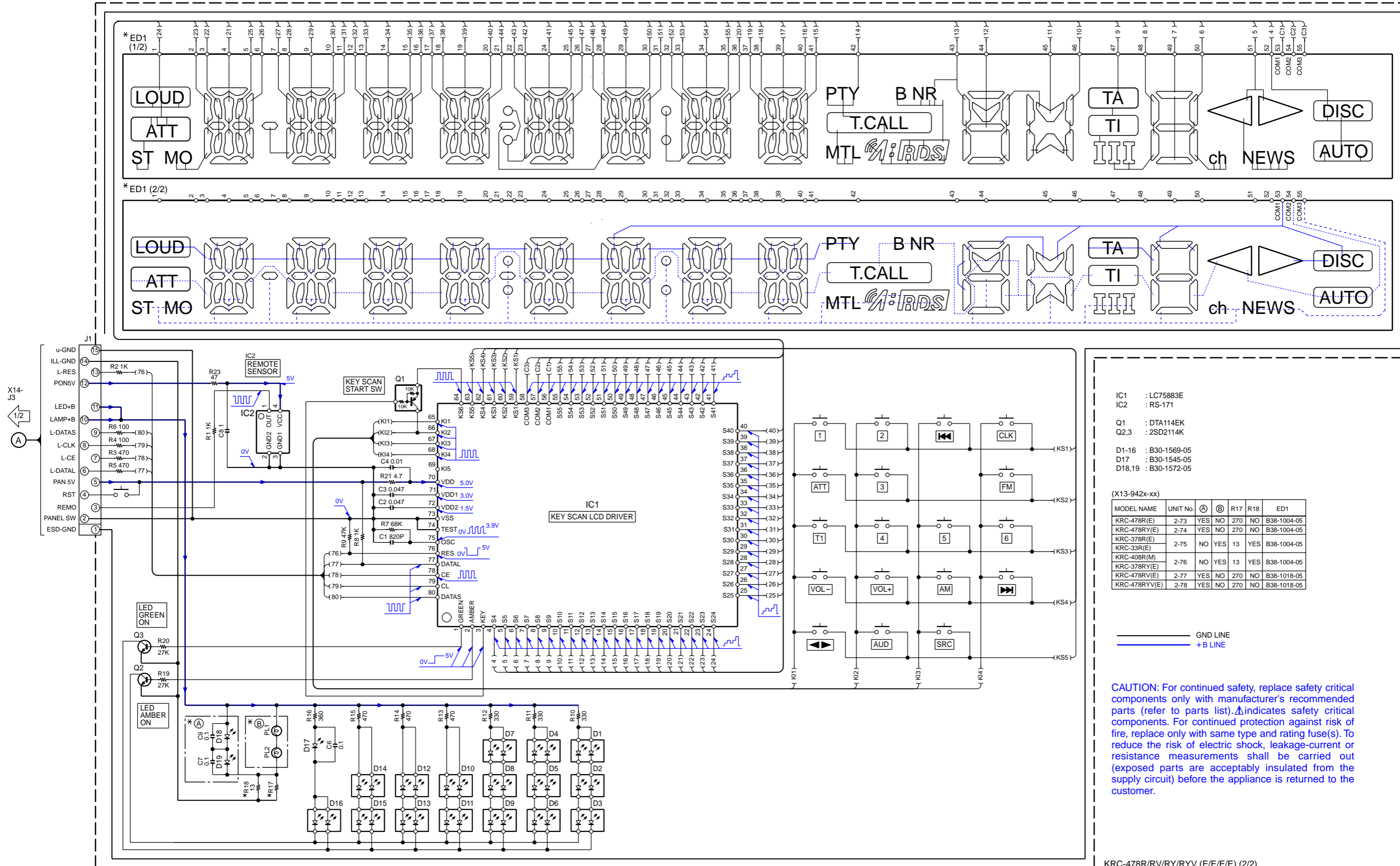
- DTA114EK
- DTA124EK
- DTC114EK
- DTC114TK
- DTC114YK
- DTC124EK
- DTC143TK
- DTC144EK
- 2SA1036K
- 2SC2412K
- 2SD2114K



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). 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.

KRC-478R/RV/RVY/RVYV (E/E/E/E) (1/2)

SWITCH UNIT (X13-942x-xx)



- IC1 : LC75883E
- IC2 : RS-171
- Q1 : DTA114EK
- Q2,3 : 2SD2114K
- D1-16 : B30-1569-05
- D17 : B30-1545-05
- D18,19 : B30-1572-05

(X13-942x-xx)

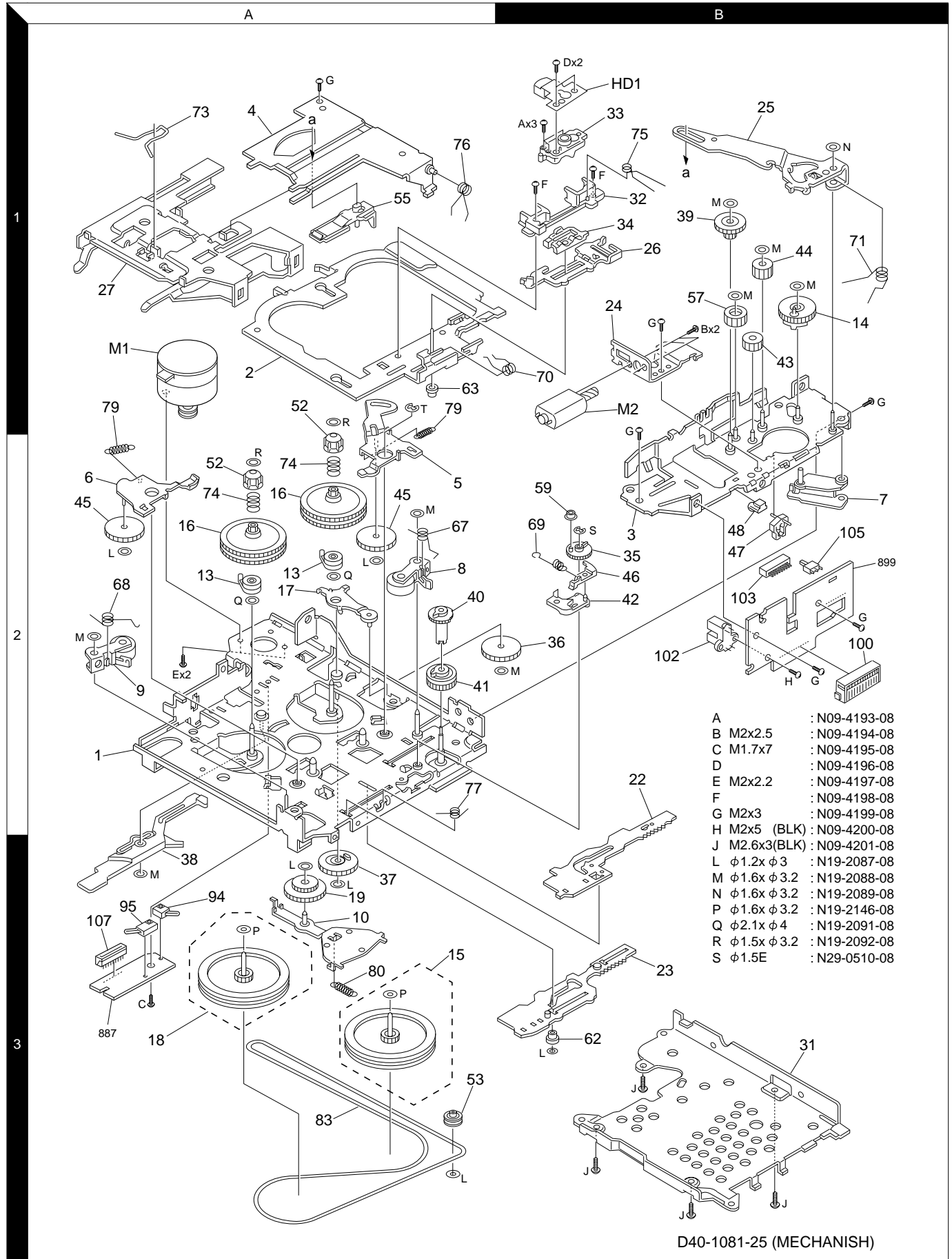
MODEL NAME	UNIT No.	Ⓐ	Ⓑ	R17	R18	ED1
KRC-478R(E)	2-73	YES	NO	270	NO	B38-1004-05
KRC-478RY(E)	2-74	YES	NO	270	NO	B38-1004-05
KRC-378R(E)	2-75	NO	YES	13	YES	B38-1004-05
KRC-408R(M)	2-76	NO	YES	13	YES	B38-1004-05
KRC-378RY(E)	2-77	YES	NO	270	NO	B38-1018-05
KRC-478RV(E)	2-77	YES	NO	270	NO	B38-1018-05
KRC-478RYV(E)	2-78	YES	NO	270	NO	B38-1018-05

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Ⓐ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). 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.

KRC-478R/RV/RV/RV (E/E/E/E) (2/2)

KRC-478R/RV/RV/RV

EXPLODED VIEW (MECHANISM)

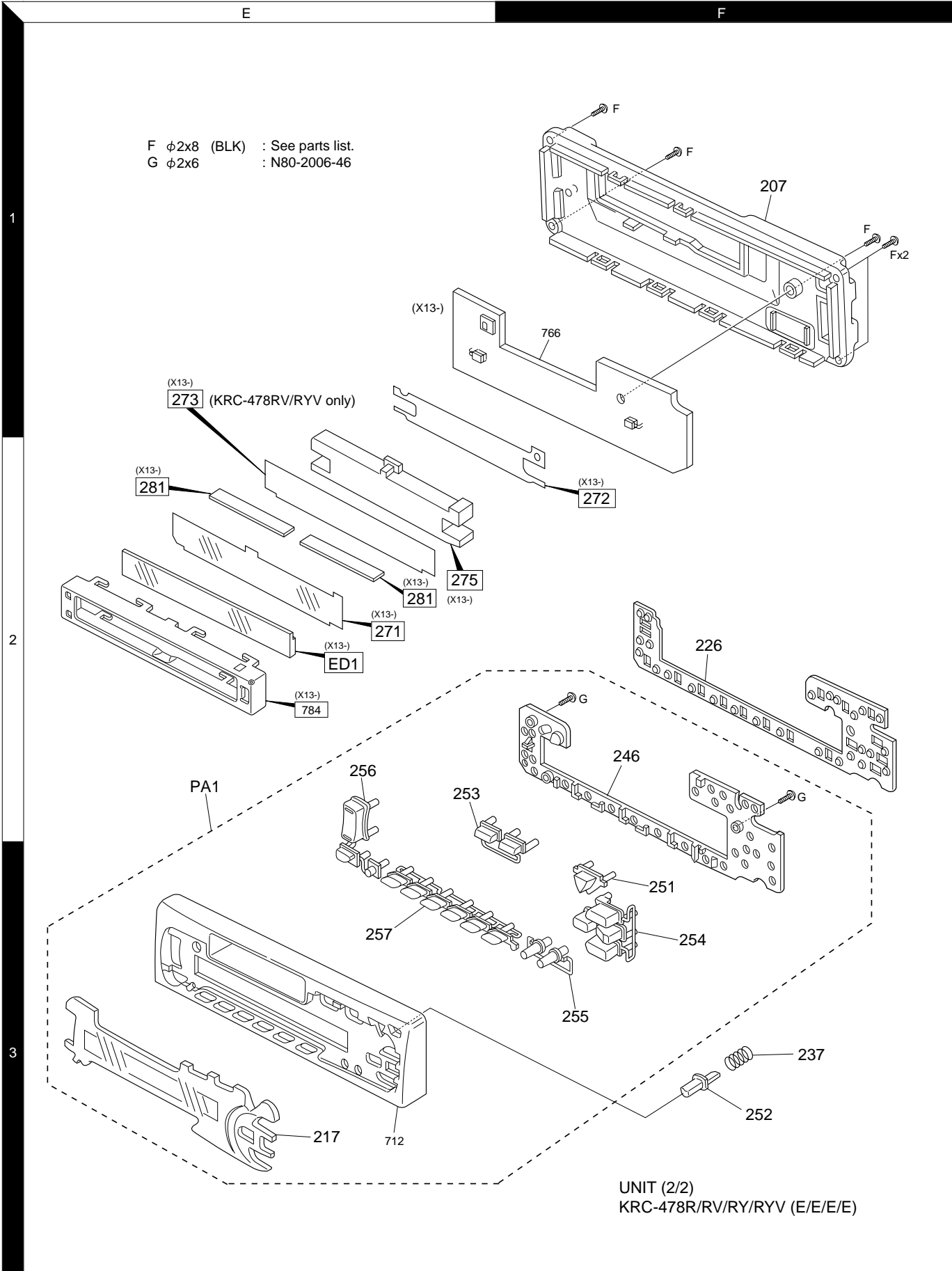


Parts with exploded numbers larger than 700 are not supplied.

KRC-478R/RV/RV/RV

EXPLODED VIEW (UNIT)

F $\phi 2 \times 8$ (BLK) : See parts list.
 G $\phi 2 \times 6$: N80-2006-46



UNIT (2/2)
 KRC-478R/RV/RV/RV (E/E/E)

KRC-478R/RV/RV/RV



PARTS LIST

* New Parts

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

Les articles non mentionnés 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	Desti- nation
KRC-478R/RV/RV/RV					
201	1C		A02-1486-13	PLASTIC CABINET ASSY	
205	2C	*	A22-2384-03	SUB PANEL ASSY	
207	1F	*	A46-1656-01	REAR COVER	
208	1D		A52-0740-22	TOP PLATE	EE1
208	1D	*	A52-0758-02	TOP PLATE	E3E2
210	3C		A53-1638-13	CASSETTE LID	
PA1	2E	*	A64-1910-02	PANEL ASSY	
216	3C	*	B07-2181-02	ESCUTCHEON	
217	3E	*	B10-3141-01	FRONT GLASS	
-			B46-0100-50	WARRANTY CARD	EE1
-			B46-0182-14	ID CARD	EE1
-			B46-0606-04	ID CARD	E3E2
-		*	B64-1529-00	INST. MANUAL (ENG,RUS,POL)	E3E2
-		*	B64-1530-00	INST. MANUAL (CZE,HUN,CRO)	E3E2
-		*	B64-1531-00	INST. MANUAL (ENGLISH)	EE1
-		*	B64-1532-00	INST. MANUAL (FRE,GER,DUT)	EE1
-		*	B64-1533-00	INST. MANUAL (ITA,SPA,POR)	EE1
221	1C		D10-3031-04	LEVER	E3E2
221	1C		D10-4197-04	LEVER	EE1
222	3C		D10-4051-33	LEVER	
223	3C		D10-4052-03	LEVER	
224	3C		D21-2250-04	SHAFT	
ME1	2C		D40-1081-25	CASSETTE MECHANISM ASSY	
226	2F		E29-1577-02	CONDUCTIVE RUBBER	
229	2D	*	E30-4801-05	CORD WITH PINPLUG	
DC1	1C	*	E30-4792-05	DC CORD	EE3
232	2D		F29-0049-05	INSULATING COVER	
 F1	2D		F52-0006-05	FUSE (MINI BLADE TYPE) (10A)	
 F1	2D		F52-0011-05	FUSE (MINI BLADE TYPE) (10A)	E3E2
236	3C		G01-2525-04	TORSION COIL SPRING	
237	3F		G01-2738-04	COMPRESSION SPRING	
238	3C		G01-2792-04	EXTENSION SPRING	
239	3C		G02-1244-03	FLAT SPRING	
-		*	H10-4697-02	POLYSTYRENE FOAMED FIXTURE	E3E2
-		*	H10-4698-02	POLYSTYRENE FOAMED FIXTURE	EE1
-			H25-0329-04	PROTECTION BAG (280X450X0.03)	E3E2
-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
-			H25-1111-04	PROTECTION BAG (280X450X0.03)	EE1
-		*	H54-1581-03	ITEM CARTON CASE (KRC-478R)	E
-		*	H54-1582-03	ITEM CARTON CASE (KRC-478RV)	E1
-		*	H54-1585-03	ITEM CARTON CASE (KRC-478RY)	E3
-		*	H54-1586-03	ITEM CARTON CASE (KRC-478RYV)	E2
246	2F		J19-4882-12	HOLDER	
247	3C		J21-7726-04	MOUNTING HARDWARE	
248	1C	*	J21-9491-03	MOUNTING HARDWARE ASSY	
251	3F		K24-1927-04	KNOB (SRC)	
252	3F		K24-1948-14	KNOB (RELEASE)	
253	2F		K25-0963-03	KNOB (EJECT,AUD)	
254	3F		K25-0969-03	KNOB (FM,AM,UP,DOWN)	
255	3F		K25-0970-03	KNOB (TI,CLK)	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
256	2E		K25-0971-03	KNOB (VOL,ATT)	
257	3E		K25-0972-03	KNOB (1,2,3,4,5,6)	
A	1D		N83-3005-46	PAN HEAD TAPTITE SCREW	
E	3C		N30-2608-45	PAN HEAD MACHINE SCREW	
F	1F		N80-2008-45	PAN HEAD TAPTITE SCREW	E3E2
F	1F		N83-2008-45	PAN HEAD TAPTITE SCREW	EE1
G	2F		N80-2006-46	PAN HEAD TAPTITE SCREW	
261	1C		T90-0523-05	ANTENNA ADAPTOR	
261	1C	*	T90-0534-05	ANTENNA ADAPTOR	
SWITCH UNIT (X13-942x-xx)					
271	2E		B11-0967-04	OPTICAL DIFFUSER	EE3
271	2E	*	B11-0998-04	OPTICAL DIFFUSER	E1E2
272	2F		B11-0968-04	REFLECTION SHEET	
273	1E	*	B11-0997-04	COLOR FILTER	E1E2
275	2E	*	B19-1166-23	LIGHTING BOARD	
D1 -16		*	B30-1569-05	LED (2-COLOR,PG/RED)	
D17			B30-1545-05	LED (BLUE)	
D18 ,19		*	B30-1572-05	LED (WHITE)	
ED1	2E		B38-1004-05	LIQUID CRYSTAL	EE3
ED1	2E		B38-1018-05	LIQUID CRYSTAL	E1E2
C1			CK73FB1H821K	CHIP C 820PF	K
C2 ,3			CK73FB1H473K	CHIP C 0.047UF	K
C4			CK73FB1H103K	CHIP C 0.010UF	K
C6 ,7			CK73FB1C104K	CHIP C 0.10UF	K
C8			CK73EB1C105K	CHIP C 1.0UF	K
C9			CK73FB1C104K	CHIP C 0.10UF	K
281	2E		E29-1575-04	CONDUCTIVE RUBBER	
J1			E59-0828-05	RECTANGULAR PLUG	
R1 ,2			RK73FB2A102J	CHIP R 1.0K	J 1/10W
R3			RK73FB2A471J	CHIP R 470	J 1/10W
R4			RK73FB2A101J	CHIP R 100	J 1/10W
R5			RK73FB2A471J	CHIP R 470	J 1/10W
R6			RK73FB2A101J	CHIP R 100	J 1/10W
R7			RK73FB2A683J	CHIP R 68K	J 1/10W
R8			RK73FB2A102J	CHIP R 1.0K	J 1/10W
R9			RK73FB2A473J	CHIP R 47K	J 1/10W
R10 -12			RK73EB2B331J	CHIP R 330	J 1/8W
R13 -15			RK73EB2B471J	CHIP R 470	J 1/8W
R16			RK73EB2B361J	CHIP R 360	J 1/8W
R17			RK73EB2B271J	CHIP R 270	J 1/8W
R19 ,20			RK73FB2A273J	CHIP R 27K	J 1/10W
R21			RK73FB2A4R7J	CHIP R 4.7	J 1/10W
R23			RK73FB2A470J	CHIP R 47	J 1/10W
IC1			LC75883E	MOS-IC	
IC2			RS-171	ANALOGUE IC	
Q1			DTA114EK	DIGITAL TRANSISTOR	
Q1			UN2111	DIGITAL TRANSISTOR	E3E2
Q2 ,3			2SD2114K	TRANSISTOR	
SYNTHESIZER UNIT (X14-6xxx-xx)					
D14			B30-1511-05	LED (RED)	
C1			C90-5235-05	ELECTRO 2200UF 16WV	
C2			CE04DW1C101M	ELECTRO 100UF 16WV	

E : Europe K : North America M : Other Areas

E : KRC-478R
E1 : KRC-478RV
E2 : KRC-478RYV

E3 : KRC-478RY

 indicates safety critical components.

KRC-478R/RV/RV/RV

PARTS LIST

* New Parts

Parts without Part No. are not supplied.

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

Teile ohne Parts No. werden nicht geliefert.

(X14-6xxx-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
C3			CK73FB1H103K	CHIP C 0.010UF K		C318			C90-2606-05	ELECTRO 0.47UF 50WV	
C4			C90-2594-05	ELECTRO 10UF 10WV		C319			C90-2608-05	ELECTRO 1.0UF 50WV	
C5			CE04CWOJ101M	ELECTRO 100UF 6.3WV		C320,321			CK73FB1C224K	CHIP C 0.22UF K	
C7			CE04CW1C101M	ELECTRO 100UF 16WV		C323,324			CK73FB1H103K	CHIP C 0.010UF K	
C8			CE04CW1A101M	ELECTRO 100UF 10WV							
C9			C90-2602-05	ELECTRO 0.10UF 50WV		287	2D		E59-0830-08	RECTANGULAR PLUG	
C10			CK73FB1E683K	CHIP C 0.068UF K		CN1			E40-9541-05	PIN ASSY	
C11			C90-2598-05	ELECTRO 3.3UF 25WV		CN3			E40-3238-05	PIN ASSY	
C12, 13			CK73FB1H103K	CHIP C 0.010UF K	⚠	J1			E04-0306-05	RF COAXIAL CABLE RECEPTACLE	
C14			CK73FB1H102K	CHIP C 1000PF K		J2	2D		E58-0878-05	RECTANGULAR RECEPTACLE	
C15, 16			CK73FB1H103K	CHIP C 0.010UF K		J3			E58-0879-05	RECTANGULAR RECEPTACLE	
C101,102			CC73FCH1H150J	CHIP C 15PF J		J4			E56-0826-05	CYLINDRICAL RECEPTACLE	
C110			CE04CWOJ101M	ELECTRO 100UF 6.3WV		J5			E63-0013-05	PIN JACK	
C111			CK73FB1H103K	CHIP C 0.010UF K		WH1	2D		E31-8094-05	LEAD WIRE	
C112			CK73FB1C104K	CHIP C 0.10UF K							
C201			CE04CW1A101M	ELECTRO 100UF 10WV	⚠	290	2D		F09-1620-08	CAP	
C202			CK73FB1H103K	CHIP C 0.010UF K		L1			L33-1063-15	CHOKO COIL	
C203			C90-2608-05	ELECTRO 1.0UF 50WV		L2, 3			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH,J)	
C204,205			CK73EB1C105K	CHIP C 1.0UF K		L8			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH,J)	
C204,205			CK73EF1C105Z	CHIP C 1.0UF Z		L9			L33-1123-05	LINE FILTER COIL (52MH)	
C206			CK73FB1H153K	CHIP C 0.015UF K		L10			L40-4791-17	SMALL FIXED INDUCTOR (4.7UH,K)	
C207			CK73FB1C224K	CHIP C 0.22UF K		L13			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH,J)	
C208			CC73FCH1H121J	CHIP C 120PF J		X1			L77-1167-05	CRYSTAL RESONATOR (4.19MHZ)	
C209			CK73FB1C823K	CHIP C 0.082UF K		X3			L77-2002-05	CRYSTAL RESONATOR (4.3320MHZ)	
C210			CK73FB1C104K	CHIP C 0.10UF K		A	2D		N83-3005-46	PAN HEAD TAPTITE SCREW	
C211			CC73FCH1H151J	CHIP C 150PF J		B	2D		N30-3008-46	PAN HEAD MACHINE SCREW	
C212			CK73FB1E333K	CHIP C 0.033UF K		C	2D		N80-3008-46	PAN HEAD TAPTITE SCREW	
C213			C90-2592-05	ELECTRO 10UF 6.3WV		D	1D		N30-3012-46	PAN HEAD MACHINE SCREW	
C214			CC73FCH1H271J	CHIP C 270PF J		R1			RK73FB2A223J	CHIP R 22K J 1/10W	
C215			CK73FB1H103K	CHIP C 0.010UF K		R2			RK73FB2A101J	CHIP R 100 J 1/10W	
C216			C90-2592-05	ELECTRO 10UF 6.3WV		R3			RK73FB2A473J	CHIP R 47K J 1/10W	
C217,218			CC73FCH1H100D	CHIP C 10PF D		R4			RK73FB2A222J	CHIP R 2.2K J 1/10W	
C220			CK73FB1H103K	CHIP C 0.010UF K		R5			RK73FB2A103J	CHIP R 10K J 1/10W	
C225			CK73FB1H103K	CHIP C 0.010UF K		R6, 7			RK73FB2A102J	CHIP R 1.0K J 1/10W	
C226			CE04DW1A470M	ELECTRO 47UF 10WV		R8, 9			RD14DB2H2R2J	SMALL-RD 2.2 J 1/2W	
C228,229			CK73FB1H103K	CHIP C 0.010UF K		RD			RD14BB2C103J	RD 10K J 1/6W	
C251			C90-2608-05	ELECTRO 1.0UF 50WV		R11			RD14DB2H102J	SMALL-RD 1.0K J 1/2W	
C252			CE04CW1A101M	ELECTRO 100UF 10WV		R12			RK73FB2A102J	CHIP R 1.0K J 1/10W	
C253-256		*	C90-5297-05	NP-ELECT 0.22UF 50WV		R13			RD14DB2H102J	SMALL-RD 1.0K J 1/2W	
C257			C90-2935-05	ELECTRO 1.0UF 50WV		R14			RK73FB2A223J	CHIP R 22K J 1/10W	
C258			C90-2608-05	ELECTRO 1.0UF 50WV		R15			RD14DB2H102J	SMALL-RD 1.0K J 1/2W	
C260			CK73FB1H103K	CHIP C 0.010UF K		R16, 17			RD14BB2C472J	RD 4.7K J 1/6W	
C261-264			C90-2597-05	ELECTRO 10UF 16WV		R18			RK73EB2B103J	CHIP R 10K J 1/8W	
C265,266			C90-2608-05	ELECTRO 1.0UF 50WV		R19			RK73FB2A473J	CHIP R 47K J 1/10W	
C267			CE04CW1A101M	ELECTRO 100UF 10WV		R20			RK73FB2A223J	CHIP R 22K J 1/10W	
C268			CK73FB1H103K	CHIP C 0.010UF K		R21			RD14BB2C333J	RD 33K J 1/6W	
C301			CE04CW1A101M	ELECTRO 100UF 10WV		R23			RD14DB2H332J	SMALL-RD 3.3K J 1/2W	
C302			CK73FB1H103K	CHIP C 0.010UF K		R24			RK73FB2A103J	CHIP R 10K J 1/10W	
C305,306			CE04CWOJ220M	ELECTRO 22UF 6.3WV		R25			RK73FB2A104J	CHIP R 100K J 1/10W	
C307,308			CK73FB1H123K	CHIP C 0.012UF K		R26			RK73FB2A243J	CHIP R 24K J 1/10W	
C309,310			C90-2602-05	ELECTRO 0.10UF 50WV		R27, 28			RK73FB2A103J	CHIP R 10K J 1/10W	
C311,312			CK73FB1H152K	CHIP C 1500PF K		R29, 30			RK73FB2A104J	CHIP R 100K J 1/10W	
C313			CK73FB1H103K	CHIP C 0.010UF K		R101			RK73FB2A222J	CHIP R 2.2K J 1/10W	
C314			C90-2604-05	ELECTRO 0.22UF 50WV		R102			RK73FB2A104J	CHIP R 100K J 1/10W	
C315-317			CK73FB1H103K	CHIP C 0.010UF K		R103			RK73FB2A471J	CHIP R 470 J 1/10W	

E : Europe K : North America M : Other Areas

E : KRC-478R
E1 : KRC-478RV
E2 : KRC-478RYV

E3 : KRC-478RY

⚠ indicates safety critical components.

KRC-478R/RV/RV/RV

PARTS LIST

* New Parts

Parts without Part No. are not supplied.

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

Teile ohne Parts No. werden nicht geliefert.

(X14-6xxx-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R104			RK73FB2A102J	CHIP R 1.0K J 1/10W		R278			RK73EB2B470J	CHIP R 47 J 1/8W	
R106,107			RK73FB2A470J	CHIP R 47 J 1/10W		R279,280			RK73EB2B472J	CHIP R 4.7K J 1/8W	
R108,109			RK73FB2A102J	CHIP R 1.0K J 1/10W		R281-283			RK73EB2B222J	CHIP R 2.2K J 1/8W	
R111,112			RK73FB2A102J	CHIP R 1.0K J 1/10W		R284,285			RK73EB2B470J	CHIP R 47 J 1/8W	
R115			RK73FB2A102J	CHIP R 1.0K J 1/10W		R286-288			RK73FB2A104J	CHIP R 100K J 1/10W	
R116,117			RK73FB2A472J	CHIP R 4.7K J 1/10W		R301			RD14BB2C4R7J	RD 4.7 J 1/6W	
R118,119			RK73FB2A102J	CHIP R 1.0K J 1/10W		R302			RK73FB2A184J	CHIP R 180K J 1/10W	
R121			RK73FB2A102J	CHIP R 1.0K J 1/10W		R303,304			RK73FB2A153J	CHIP R 15K J 1/10W	
R122			RK73FB2A103J	CHIP R 10K J 1/10W		R305,306			RK73FB2A151J	CHIP R 150 J 1/10W	
R123			RK73FB2A102J	CHIP R 1.0K J 1/10W		R307,308			RK73FB2A334J	CHIP R 330K J 1/10W	
R124			RK73FB2A103J	CHIP R 10K J 1/10W		R309,310			RK73FB2A123J	CHIP R 12K J 1/10W	
R125			RK73FB2A104J	CHIP R 100K J 1/10W		R313,314			RK73FB2A562J	CHIP R 5.6K J 1/10W	
R127			RK73FB2A473J	CHIP R 47K J 1/10W		R315,316			RK73FB2A512J	CHIP R 5.1K J 1/10W	
R131			RK73FB2A470J	CHIP R 47 J 1/10W		R317			RK73FB2A243J	CHIP R 24K J 1/10W	
R133			RK73FB2A222J	CHIP R 2.2K J 1/10W		R318			RK73FB2A162J	CHIP R 1.6K J 1/10W	
R134			RK73FB2A225J	CHIP R 2.2M J 1/10W		R319			RK73FB2A104J	CHIP R 100K J 1/10W	
R136			RK73FB2A472J	CHIP R 4.7K J 1/10W		R320			RK73FB2A471J	CHIP R 470 J 1/10W	
R139			RK73FB2A222J	CHIP R 2.2K J 1/10W		R321			RK73FB2A223J	CHIP R 22K J 1/10W	
R141			RK73FB2A222J	CHIP R 2.2K J 1/10W		R322			RK73FB2A104J	CHIP R 100K J 1/10W	
R142			RK73FB2A104J	CHIP R 100K J 1/10W		R323			RK73FB2A471J	CHIP R 470 J 1/10W	
R144			RK73FB2A682J	CHIP R 6.8K J 1/10W		R324			RK73FB2A751J	CHIP R 750 J 1/10W	
R145			RK73EB2B241J	CHIP R 240 J 1/8W		R327			RK73FB2A471J	CHIP R 470 J 1/10W	
R151,152			RK73FB2A473J	CHIP R 47K J 1/10W		R328			RK73FB2A104J	CHIP R 100K J 1/10W	
R155			RK73FB2A473J	CHIP R 47K J 1/10W	EE3	R329			RK73FB2A471J	CHIP R 470 J 1/10W	
R156			RK73FB2A473J	CHIP R 47K J 1/10W	E1E2	R330			RK73FB2A104J	CHIP R 100K J 1/10W	
R201			RK73FB2A222J	CHIP R 2.2K J 1/10W		R351			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R202			RK73FB2A102J	CHIP R 1.0K J 1/10W		R356			RK73EB2B101J	CHIP R 100 J 1/8W	
R203-205			RK73FB2A472J	CHIP R 4.7K J 1/10W		R360			RK73FB2A273J	CHIP R 27K J 1/10W	
R206			RK73FB2A272J	CHIP R 2.7K J 1/10W		R361			RK73FB2A473J	CHIP R 47K J 1/10W	
R207-209			RK73FB2A222J	CHIP R 2.2K J 1/10W		W1 -3			R92-2053-05	CHIP R 0 J 1/8W	
R210			RD14BB2C100J	RD 10 J 1/6W		D1			S2V20 * A	DIODE	
R211			RK73EB2B102J	CHIP R 1.0K J 1/8W		D2			AM01Z	DIODE	
R212			RK73FB2A223J	CHIP R 22K J 1/10W		D2			ERA15-01	DIODE	
R213			RK73EB2B102J	CHIP R 1.0K J 1/8W		D3			MA4056(N)-M	ZENER DIODE	
R214			RK73FB2A223J	CHIP R 22K J 1/10W		D4			MA4091(N)-L	ZENER DIODE	
R216			RD14BB2C151J	RD 150 J 1/6W		D5			MA4110-L	ZENER DIODE	
R218			RK73FB2A102J	CHIP R 1.0K J 1/10W		D6			1SS133	DIODE	
R219			RK73FB2A472J	CHIP R 4.7K J 1/10W		D7 -9			AM01Z	DIODE	
R251			RK73FB2A472J	CHIP R 4.7K J 1/10W		D7 -9			ERA15-01	DIODE	
R252			RK73FB2A102J	CHIP R 1.0K J 1/10W		D10			MA4047-M	ZENER DIODE	
R253-256			RK73FB2A472J	CHIP R 4.7K J 1/10W		D11 ,12			MA4068(N)-M	ZENER DIODE	
R257			RK73FB2A751J	CHIP R 750 J 1/10W		D13			1SS133	DIODE	
R258			RK73FB2A431J	CHIP R 430 J 1/10W		D32			MA4051(N)-M	ZENER DIODE	
R259			RK73FB2A154J	CHIP R 150K J 1/10W		D33			AM01Z	DIODE	
R260			RK73FB2A363J	CHIP R 36K J 1/10W		D33			ERA15-01	DIODE	
R261			RK73FB2A101J	CHIP R 100 J 1/10W		D34 ,35			DAP202K	DIODE	
R262			RK73FB2A223J	CHIP R 22K J 1/10W		D34 ,35			MA152WA	DIODE	E3E2
R263,264			RK73FB2A361J	CHIP R 360 J 1/10W		D36			AM01Z	DIODE	
R265,266			RK73FB2A223J	CHIP R 22K J 1/10W		D36			ERA15-01	DIODE	
R267,268			RK73EB2B181J	CHIP R 180 J 1/8W		D51			RD6.8MW	ZENER DIODE	
R269,270			RK73FB2A361J	CHIP R 360 J 1/10W		D52 -56			MA4062-L	ZENER DIODE	
R271,272			RK73FB2A223J	CHIP R 22K J 1/10W		IC1		*	UPD780058GC110	MI-COM IC	
R273,274			RK73EB2B181J	CHIP R 180 J 1/8W		IC2		*	TDA7400D	ANALOGUE IC	
R275,276			RK73EB2B100J	CHIP R 10 J 1/8W		IC4			TDA7384A	ANALOGUE IC	
R277			RK73EB2B4R7J	CHIP R 4.7 J 1/8W		IC5		*	HA12221F	ANALOGUE IC	

E : Europe K : North America M : Other Areas

E1 : KRC-478R

E3 : KRC-478RY

E2 : KRC-478RV

E2 : KRC-478RYV

 indicates safety critical components.

KRC-478R/RV/RV/RV

PARTS LIST

* New Parts

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

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

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

(X14-6xxx-xx)


Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
IC6			LB1930M	ANALOGUE IC	
IC8			TDA7479D	ANALOGUE IC	
IC9			PST9130NR	ANALOGUE IC	
IC10			HD74HC27FP	MOS-IC	
Q1			2SB1443	TRANSISTOR	
Q2			2SC2412K	TRANSISTOR	E3E2
Q2			2SD601A	TRANSISTOR	
Q3			2SA1036K	TRANSISTOR	
Q4			DTA124EK	DIGITAL TRANSISTOR	E3E2
Q4			UN2112	DIGITAL TRANSISTOR	
Q5			DTC144EK	DIGITAL TRANSISTOR	E3E2
Q5			UN2213	DIGITAL TRANSISTOR	
Q6		*	2SA1648-Z	TRANSISTOR	
Q7			2SC2412K	TRANSISTOR	E3E2
Q7			2SD601A	TRANSISTOR	
Q8			2SB1443	TRANSISTOR	
Q9			DTC114EK	DIGITAL TRANSISTOR	E3E2
Q9			UN2211	DIGITAL TRANSISTOR	
Q10			DTA124EK	DIGITAL TRANSISTOR	E3E2
Q10			UN2112	DIGITAL TRANSISTOR	
Q11			DTC144EK	DIGITAL TRANSISTOR	E3E2
Q11			UN2213	DIGITAL TRANSISTOR	
Q12			2SB1184	TRANSISTOR	
Q13			2SC2412K	TRANSISTOR	E3E2
Q13			2SD601A	TRANSISTOR	
Q14			DTA124EK	DIGITAL TRANSISTOR	E3E2
Q14			UN2112	DIGITAL TRANSISTOR	
Q15			2SA1037K	TRANSISTOR	
Q16			2SB1277(Q,R)	TRANSISTOR	
Q17			DTC114YK	DIGITAL TRANSISTOR	E3E2
Q17			UN2214	DIGITAL TRANSISTOR	
Q18 ,19			2SC2412K	TRANSISTOR	E3E2
Q18 ,19			2SD601A	TRANSISTOR	
Q20			DTC144EK	DIGITAL TRANSISTOR	E3E2
Q20			UN2213	DIGITAL TRANSISTOR	
Q21			2SC2412K	TRANSISTOR	E3E2
Q21			2SD601A	TRANSISTOR	
Q51			DTC114YK	DIGITAL TRANSISTOR	E3E2
Q51			UN2214	DIGITAL TRANSISTOR	
Q52			DTA124EK	DIGITAL TRANSISTOR	E3E2
Q52			UN2112	DIGITAL TRANSISTOR	
Q53			DTC144EK	DIGITAL TRANSISTOR	E3E2
Q53			UN2213	DIGITAL TRANSISTOR	
Q54			DTC114TK	DIGITAL TRANSISTOR	E3E2
Q54			UN2215	DIGITAL TRANSISTOR	
Q55			DTA124EK	DIGITAL TRANSISTOR	E3E2
Q55			UN2112	DIGITAL TRANSISTOR	
Q56			2SC2412K	TRANSISTOR	E3E2
Q56			2SD601A	TRANSISTOR	
Q57 -60			DTC143TK	DIGITAL TRANSISTOR	E3E2
Q57 -60			UN2216	DIGITAL TRANSISTOR	
Q61 ,62			DTC124EK	DIGITAL TRANSISTOR	E3E2
Q61 ,62			UN2212	DIGITAL TRANSISTOR	
Q63 ,64			2SB1277(Q,R)	TRANSISTOR	
Q65			2SA1037K	TRANSISTOR	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
Q67			2SC2412K	TRANSISTOR	E3E2
Q67			2SD601A	TRANSISTOR	
TH1			PTH9C42BD471Q	POSITIVE RESISTOR	
A1	3D	*	X86-3162-70	FRONT-END UNIT	E3E2
A1	3D	*	X86-3172-70	FRONT-END UNIT	EE1
CASSETTE MECHANISM ASSY (D40-1081-25)					
1	2A		A10-4329-08	CHASSIS ASSY	
2	1A		J21-7779-08	MOUNTING HARDWARE	
3	2B		A11-0931-08	SUB CHASSIS ASSY	
4	1A		D10-4106-08	ARM	
5	2A		D10-4107-08	ARM	
6	2A		D10-4108-08	ARM	
7	2B		D10-4109-08	ARM	
8	2A		D10-4110-08	ARM ASSY	
9	2A		D10-4111-08	ARM ASSY	
10	3A		D10-4112-08	ARM	
13	2A		D10-4113-08	ARM	
14	1B		D13-1324-08	GEAR ASSY	
15	3A	*	D01-0614-08	FLYWHEEL ASSY	
16	2A		D13-1325-08	GEAR ASSY	
17	2A		D10-4114-08	ARM ASSY	
18	3A	*	D01-0615-08	FLYWHEEL ASSY	
19	3A		D13-1326-08	GEAR ASSY	
22	2B		D10-4115-08	SLIDER	
23	3B	*	D10-4116-18	SLIDER	
24	1B		J21-7780-08	MOUNTING HARDWARE	
25	1B	*	D10-4117-18	ARM	
26	1B		D10-4118-08	SLIDER	
27	1A		A52-0716-08	HOLDER	
31	3B		J21-7781-08	MOUNTING HARDWARE	
32	1B		J90-0767-08	GUID	
33	1B		J19-4737-08	BRACKET	
34	1B		D12-0622-08	CAM	
35	2B		D13-1327-08	GEAR	
36	2B		D13-1328-08	GEAR	
37	3A		D13-1329-08	GEAR	
38	3A		D10-4119-08	ARM	
39	1B		D13-1330-08	GEAR	
40	2A		D13-1331-08	GEAR	
41	2A		D13-1332-08	GEAR	
42	2B		J11-0619-08	CLAMPER	
43	1B		D13-1333-08	GEAR	
44	1B		D13-1334-08	GEAR	
45	2A		D13-1335-08	GEAR	
46	2B		D10-4120-08	ARM	
47	2B		J19-4738-08	HOLDER	
48	2B		J11-0620-08	CLAMPER	
52	2A		D03-0312-08	REEL DISK	
53	3A		D15-0913-08	PULLEY	
55	1A		D10-4121-08	SLIDER	
57	1B		D13-1337-08	GEAR	
59	2B		J31-1036-08	COLLAR	
62	3B		D14-0683-08	ROLLER	
63	1A		D14-0684-08	ROLLER	

E : Europe K : North America M : Other Areas

E : KRC-478R
E1 : KRC-478RV
E2 : KRC-478RYV

E3 : KRC-478RY

 indicates safety critical components.

KRC-478R/RV/RV/RV

PARTS LIST

* New Parts

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

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

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
67	2A		G01-2832-08	TORSION COIL SPRING							
68	2A		G01-2833-08	TORSION COIL SPRING							
69	2B		G01-2834-08	TENSION COIL SPRING							
70	1B		G01-2835-08	TORSION COIL SPRING							
71	1B		G01-2836-08	TORSION COIL SPRING							
73	1A		G09-2020-08	SPRING							
74	2A		G01-2837-08	COMPRESSION COIL SPRING							
75	1B		G01-2838-08	TORSION COIL SPRING							
76	1A		G01-2839-08	TORSION COIL SPRING							
77	2A		G01-2843-08	TORSION COIL SPRING							
79	1A		G01-2840-08	TENSION COIL SPRING							
80	3A		G01-2841-08	TENSION COIL SPRING							
83	3A		D16-0609-08	BELT							
94	3A	*	S64-0807-08	LEVER SWITCH							
95	3A	*	S64-0808-08	LEVER SWITCH							
100	2B		E30-4460-08	CONNECTOR ASSY (10P)							
102	2B		T95-0213-08	PHOTO COUPLER							
103	2B		S62-0858-08	SLIDE SWITCH							
105	2B		S74-0813-08	LEAF SWITCH							
107	3A		E30-4468-08	CONNECTOR ASSY (7P)							
A	1B		N09-4193-08	SCREW							
B	1B		N09-4194-08	SCREW							
C	3A		N09-4195-08	SCREW							
D	1B		N09-4196-08	SCREW							
E	2A		N09-4197-08	SCREW							
F	1B		N09-4198-08	SCREW							
G	1A		N09-4199-08	SCREW							
H	2B		N09-4200-08	SCREW							
J	3B		N09-4201-08	SCREW							
L	3A		N19-2087-08	FLAT WASHER							
M	1B		N19-2088-08	FLAT WASHER							
N	1B	*	N19-2135-08	FLAT WASHER							
P	3A	*	N19-2146-08	FLAT WASHER							
Q	2A		N19-2091-08	FLAT WASHER							
R	1A		N19-2092-08	FLAT WASHER							
S	2B		N29-0510-08	RETAINING RING							
HD1	1B		T31-0220-08	PLAYBACK HEAD							
M1	1A	*	T42-0759-18	MOTOR ASSY (MAIN)							
M2	1B	*	T42-1005-08	MOTOR ASSY (SUB)							


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 indicates safety critical components.

KRC-478R/RV/RV/RV

SPECIFICATIONS

		KRC-478R/RV (E) KRC-478RV/RV (E)
		TDF
Tuner Type		CR2
FM	Frequency Range (Frequency Step)	87.5MHz-108.0MHz (50KHz)
	Usable Sensitivity (S/N 26dB)	0.7µV/75Ω
	Quieting Sensitivity (S/N 46dB)	1.6µV/75Ω
	Frequency Response (± 3.0dB)	30Hz-15KHz
	S/N	65dB (MONO)
	Selectivity	≥80dB (±400KHz)
	Stereo Separation	35dB (1KHz)
MW	Frequency Range (Frequency Step)	531KHz-1611KHz (9KHz)
	Usable Sensitivity (S/N 20dB)	25µV
LW	Frequency Range	153KHz-281KHz
	Usable Sensitivity (S/N 20dB)	45µV
CASSETTE	Tape Speed	4.76cm/sec.
	Wow/Flutter	0.08% (WRMS)
	Frequency Response (±3.0dB)	30Hz-14KHz (120µs)
	Separation	43dB (1KHz)
	S/N Dolby NR OFF	54dB
Preout Level / Load		1800mV/10KΩ
Preout Impedance		≤600µ
AMPLIFIER	Maximum Power	40W x4
	Power DIN45324, +B=14.4V	26W x4
TONE	Bass	100Hz ± 10dB
	Treble	10KHz ± 10dB
GENERAL	Operating Voltage (11V-16V allowable)	14.4V
	Current Consumption	10A
	Installation Size (Width) (Height) (Depth)	182mm 53mm 158mm
	Weight	1400g

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

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