

CASSETTE RECEIVER

**KRC-765**

**KRC-691/691Y**

**SERVICE MANUAL**

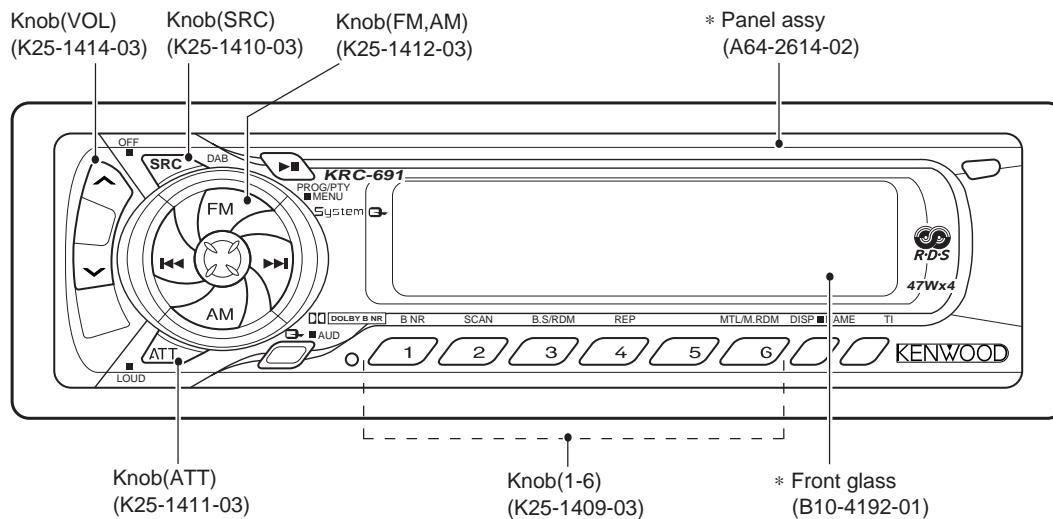
**KENWOOD**

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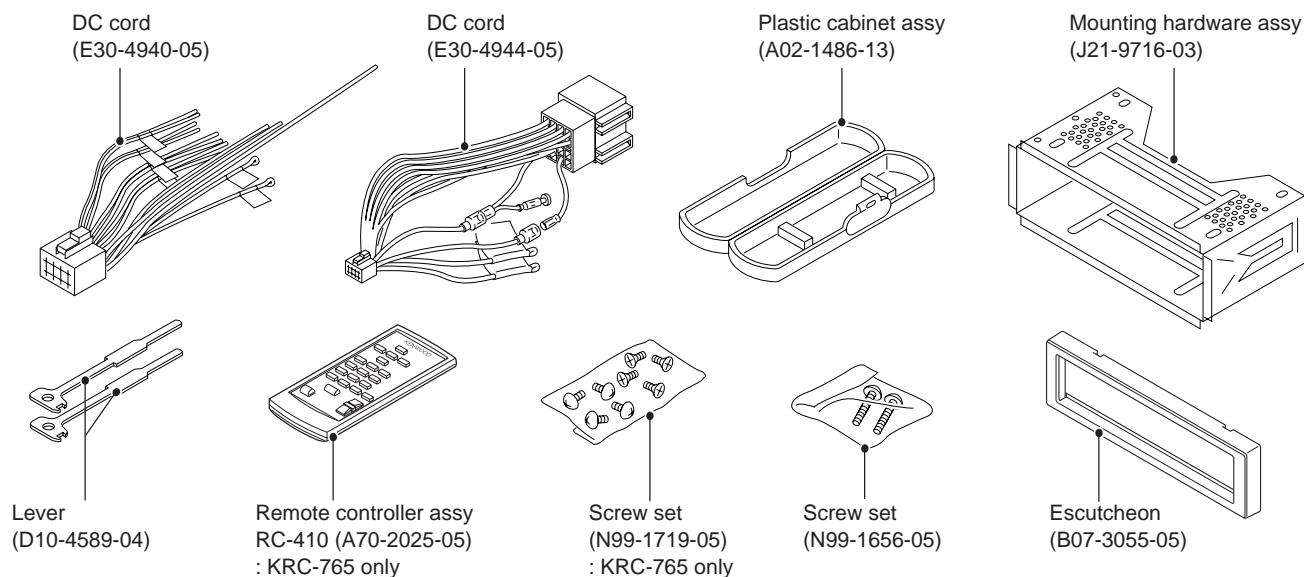
**MECHANISM EXTENSION CORD**

W05-0477-00 (7P)  
W05-0609-00 (10P)

● KRC-691

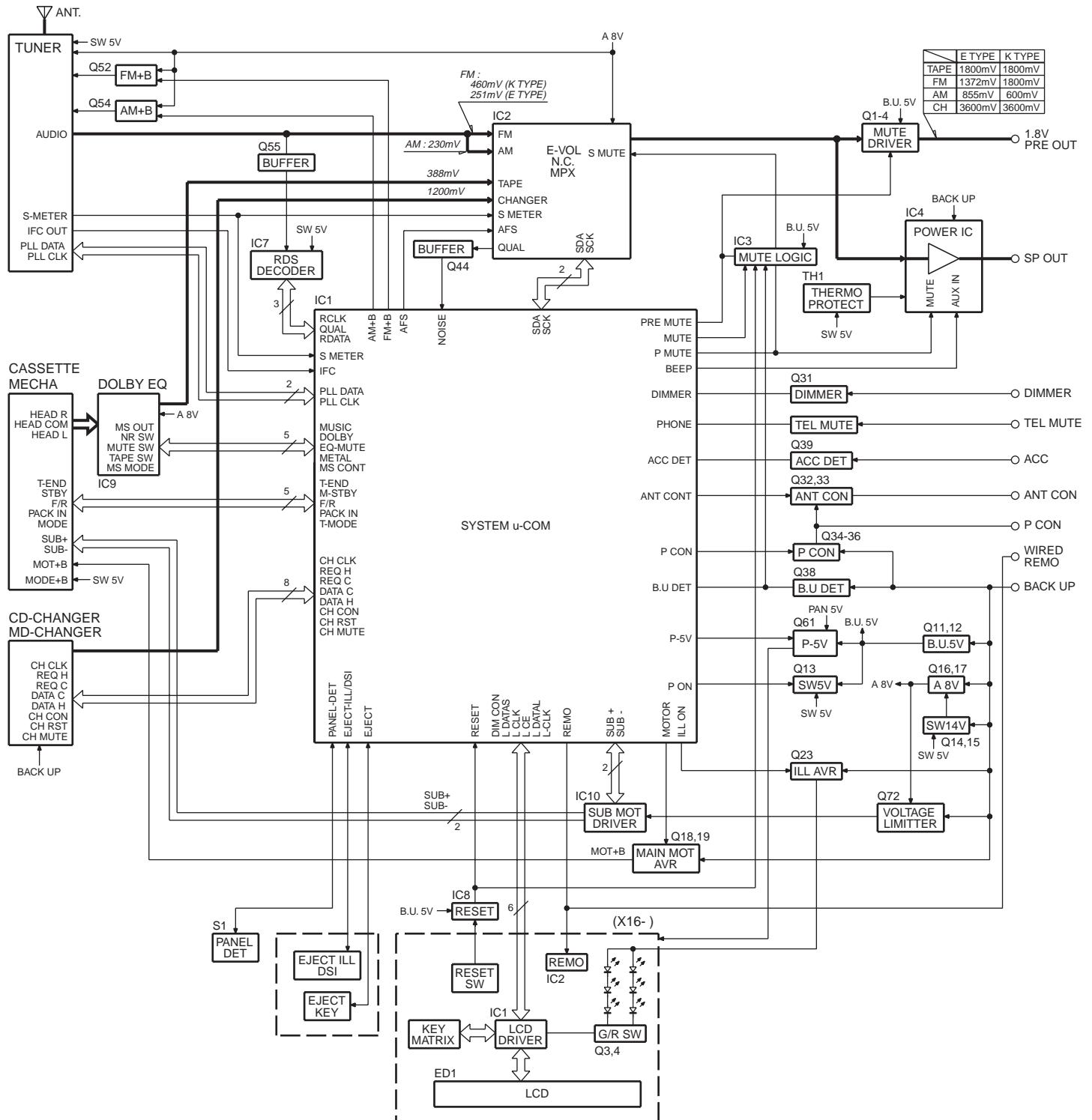


\* Refer to the PARTS LIST



# KRC-765/691/691Y

## BLOCK DIAGRAM



## COMPONENT DESCRIPTION

## ● SYNTHESIZER UNIT (X14-68XX-XX)

Component	Purpose • Function	Operation • Conditions • Compatibility
IC1	SYSTEM µ-COM	
IC2	E-VOL, N.C. NPX	
IC3	Mute logic circuit	4 input NOR gate x 4
IC4	Power IC	
IC7	RDS Decoder	
IC8	Reset IC	"L" detection voltage: 3.0 V or less
IC9	Equalizer amplifier	DOLBY B
IC10	Sub motor driver	
IC11	EEPROM	
Q1	Audio mute SW	Front L-channel is muted when base goes "H".
Q2	Audio mute SW	Front R-channel is muted when base goes "H".
Q3	Audio mute SW	Rear L-channel is muted when base goes "H".
Q4	Audio mute SW	Rear R-channel is muted when base goes "H".
Q11,Q12	B.U. 5V AVR	Darlington connection
Q13	SW 5V	ON when base goes "L".
Q14,Q15	SW 14V	Audio 8V ON/OFF SW Q15 is turned ON when Q14's base goes "H".
Q16,Q17	AUDIO 8V AVR	Darlington connection
Q18,Q19	Main motor SW	Q19 is turned ON when Q18's base goes "H".
Q20,Q21	ILL power ON/OFF SW	Q21 is turned ON when Q20's base goes "H".
Q23	ILL AVR	Inverted darlington connection
Q31	Dimmer control SW	Small light detection when base goes "H".
Q32,Q33	Power antenna SW	Q33 is turned ON when Q32's base goes "H".
Q34,Q37	Power control SW	Q34 is turned ON when Q37's base goes "H".
Q35,Q36	Power control circuit output protection	When the output voltage decrease is detected, Q37 is turned off to protect the output. When the power control switch is turned on, Q35 protects the system from misoperation.
Q38	B.U detection	"L" when B.U is present. "H" when B.U is absent or when momentary power down detection.
Q39	ACC detection	"L" when ACC is present.
Q42	Mute driver	For driving the audio mute switch. ON when the base goes "L".
Q43	MUTE SW for E-VOL.	Turns on when base goes "L" and E-VOL is muted.
Q44	Noise buffer	
Q51,Q52	FM+B SW	Q52 is turned ON when Q51's base goes "H".
Q53,Q54	AM+B SW	Q54 is turned ON when Q53's base goes "H".
Q55	Composite signal buffer	
Q61	PANEL 5V SW	ON when the base goes "L".
Q71	MSTC SW	ON when the base goes "H".
Q72	Sub motor AVR	7.3V output when AUDIO 8V is turned on.
Q82	EJECT ILL/DSI SW	ON when the base goes "L".

## ● SWITCH UNIT (X16-16XX-XX)

REF.No.	FUNCTION	OPERATION
IC1	LCD driver	
IC2	Remocon IC	
Q1	Key scan start SW	ON when the base goes "L".
Q3	Key illumination SW (RED)	ON (Key Illumination Red) when the base goes "H".
Q4	Key illumination SW (GREEN)	ON (Key Illumination Green) when the base goes "H".
Q5,D26	VLCD AVR	AVR, ON when the base goes "9.1V".
Q6	Remocon IC VDD supply SW	Supply of Remocon IC VDD when the base goes "H".
Q7	Dimmer control	LCD Back Light Control (PWM Control)

# KRC-765/691/691Y

## MICROCOMPUTER'S TERMINAL DESCRIPTION

### ● IC1(SYNTHESIZE UNIT : X14-68XX-XX)

Pin No.	Pin Name	I/O	Description	Processing Operation
1	TYPE 1	I	Destination type selection port	
2	TYPE 2	I	Destination type selection port	
3	IFC	I	F/E IFC OUT input terminal	H: Station exists Vth: 2.5V
4	AVSS	-	A/D,D/A converter ground connection terminal	Connected to GND lines.
5	IC2-TYPE 1	I	Maket/genuine select (Noise cancel)	L: Maket H: genuine
6	PANEL-DET	I	Panel detection	L: Panel exists H: Panel does not exists
7	AVREF1	I	D/A converter reference voltage input terminal	Connecting to BU5V
8	CH-DATAC	I	Data input from changers	
9	CH-DATAH	O	Data output to changers	Last maintenace
10	CH-CLK	I/O	Clock input/output with changers	input
11	L-DATAL	I	Data input from the LCD driver IC	Communication speed 600kHz (max)
12	L-DATAS	O	Data output to the LCD driver IC	Communication speed 1.2MHz (max) L: Panel detached
13	L-CLK	O	Clock output to the LCD driver IC	L: Panel detachd
14	L-CE	O	LCD driver chip enable	H: Driver select L: Not select
15	BEEP	O	BEEP sound output	
16	PLL-DATA	I/O	Tuner (01ST) data input/output	Last maintenace
17	FLIP-DET	I	Panel detach detection	L: Panel attached H: Panel detached
18	PLL CLK	O	Tuner (01ST) clock input/output	
19	N.C.	O	Not used	
20	EJECT ILL/DSI	O	EJECT ILL KEY & DSI output	L: Light ON H: Light OFF
21	L-RST	O	Reset output to the LCD driver IC	L: Reset ON H: Reset OFF
22	PAN 5V	I/O	Panel 5V control terminal	L: ON (Panel exists & ACC ON) H: OFF (Panel does not exists or ACC OFF)
23	R-DATA	I	Data input from the RDS decoder IC	
24	R-QUAL	I	Quality input from the RDS decoder IC	
25	SUB (-)	O	Sub motor output (-)	
26	SUB (+)	O	Sub motor output (+)	
27	FWD/REV	I	Cassette tape running direction detection	H: FWD L: REV
28	MS-CONT	O	ADV sensitivity control	H: PLAY L: FF/REV
29	METAL	O	NORMAL/METAL change	H: NORMAL L: METAL
30	EQ-MUTE	O	EQ-MUTE change	H: ON L: OFF
31	DOLBY	O	Dolby ON/OFF	H: ON L: OFF
32	MUSIC	I	Cassset music space detection	H: Music does not exists L: Music exist
33	VSS1	-	GND	
34	IC2 TYPE 0	I	Maket/genuine select 0 (ROLL-OFF)	L: Market L: Genuine 0
35	AM+B	O	AM power supply terminal	H: During AM reception
36	FM+B	O	FM power supply terminal	H: During FM reception if with RDS
37	AFS	O	Noise detection time constant switching terminal	Hi: During FM reception, Lo: During FM seek or AF search
38	IC2-CLK	O	IC2 clock output	
39	IC2-DATA	I/O	IC2 data input/output	
40	EEPROM DET	I	EEPROM detection terminal	H: EEPROM exist L: EEPROM does not exists
41	P-MUTE	O	Power IC mute control output	H: Mute OFF L: Mute ON, PowerOFF, All OFF, TEL Mute
42	P-STBY	O	Power IC standby control output	L: Power IC OFF, All OFF mode H: Power IC ON
43	MUTE	O	IC2 mute control output	H: Mute ON L: Mute OFF
44	PRE MUTE	O	Pre-out mute control	L: Momentary power down, Reset
45	DIMMER-CON	O	Dimmer Control	Control with pulse output H: Power ON L: Power OFF
46	BU-DET	I	Momentary power down detection input	H:BU OFF L: BU ON
47	ACC-DET	I	ACC detection input	L: ACC ON H: ACC OFF
48	DIMMER	I	Small lights detection input	L: ON H: OFF
49	REMO	I	Data input from the remote control light sensor	
50	ANT-CON	O	Antenna control output	H: TUNER, TI

## MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Description	Processing Operation
51	P-CON	O	Power control output	H: Power ON L: Power OFF
52	CH-RECH	O	Request output to changers	L: Request
53	CH-RST	O	Reset output to changers	L: Normally
54	CH-MUTE	I	Mute request from changers	H: ON L: OFF
55	CH-CON	O	Changer control	H: ON L: OFF
56	P-ON	I/O	SW 5V control output	H: OFF L: ON
57	MOTOR	O	Main motor output	H: ON L: OFF
58	M-STBY	I	Cassette standby detection	H: STBY
59	T-END	I	Tape end detection	H: Tape play L: Tape end
60	RESET	I	Reset input terminal	L: System reset H: Normally
61	EJECT	I	Eject key detection	H: OFF L: ON
62	CH-REQC	I	Request input from changers	H: OFF L: ON
63	ILL ON	O	Illumination output terminal	H: ON L: OFF
89	KEY-REQ	I	Panel key interrupt input	L: Key input exist
65	R-CLK	I	Clock input from the RDS decoder IC	
66	PACK-IN	I	Cassette pack-in detection	H: Pack-in
67	VSS0	-	GND (port)	
68	VDD1	-	Positive power supply	
69	X2	-	Main clock output (12MHz)	
70	X1	I	Main clock input	
71	TEST	I	Program power supply (Mask: Test terminal)	
72	XT2	-	Sub clock output (32.768MHz)	
73	XT1	I	Sub clock input	
74	VDD0	-	Positive power supply (port)	
75	AVDD	I	A/D port reference voltage input	
76	PHONE	I	Phone detection terminal	Less than 1V: TEL mute More than 2.5V: NAVI mute
77	T-MODE	I	Tape mode detection	Vth=2.5V
78	S-METTER	I	S-meter input from F/E	
79	NOISE	I	FM noise detection input	
80	TYPE 0	I	Destination type selection terminal	

# TEST MODE

## 1. How to enter the test mode

- Reset the unit while holding preset 1 key and preset 3 key.

## 2. How to exit from the test mode

- RESET
- POWER OFF
- ACC OFF
- Bu OFF
- Panel detach

## 3. Initial status in test mode

- Sources : ALL OFF
- Display : All segments are lit.
- Volume : -10 dB (displayed as 30)
- LOUD : OFF
- CRSC : OFF regardless of the presence of switching function.
- SYSTEM Q : Flat
- BEEP : ON
- DEMO : OFF

## 4. Special display during Tuner mode

If the following display appears during the TUNER mode, the front end is defective.

- "TNE2P NG": EEPROM remains in the initial value (don't care) because the product is shipped without passing the F/E adjustment process.
- "TNCON NG": Communication with the F/E is not possible.

## 5. Forced switching of K3I

Every pressing of the Preset 6 key during the TUNER mode, changes the status from Forced middle → Forced narrow → AUTO → Forced wide → Forced middle.

When the product is set to the Forced middle: FMM in the initial state, the following message appears.

- Forced middle : FMM
- Forced narrow : FMN
- AUTO : FMA
- Forced wide : FMM

## 6. Test mode specifications of the CD receiver

- Forced eject operation is prohibited during the reset start mode. CD cannot be recognized when the product is reset with CD remains inserted.

- Track jump takes place to the following track when the Track up key is pressed.

No. 9 → No. 15 → No. 10 → No. 11 → No. 12 → No. 13  
→ No. 14 → No. 9 (The cycle restarts from here.)

- When the Track down key is pressed, track returns back by one track during playback.

## 7. Audio system

- The product enters the audio adjustment mode when the Q key is pressed momentarily.
- Continuous advance operation from remote control is prohibited.
- The Bass/Middle/Treble is adjusted to either one of the 3 steps of MIN/Center/MAX with Track up/down key.
- Balance is adjusted to either one of the 3 steps of Left MAX/Center/Right MAX with Track up/down key.
- Fader is adjusted to either one of the 3 steps of Rear MAX/Center/Front MAX with Track up/down key.
- HPF (high-pass filer) is adjusted to either Through or 220 Hz with Track up/down key.
- LPF (low-pass filer) is adjusted to either Through or 120 Hz with Track up/down key.
- Bass f/Bass Q/Bass EXT/Middle f/Middle Q/Treble f do not appear on the audio adjustment.

## 8. MENU system

- The product enters the MENU mode when the CLK key is pressed momentarily.
- The product enters the MENU mode when the DNPP/ SBF key of the remote control is pressed.
- Continuous advance operation from remote control is prohibited.
- The calendar adjustment, calendar display switching and calendar memo are deleted from the advance operation. (FL model)
- Red is set by the preset 1, blue by 2, green by 3 and white by 4 in the color adjustment mode. (VCLD model)
- Contrast can be adjusted in 3 steps of 0/5/10. Initial value is 5. (VCLD/VCLD model)
- Brightness can be adjusted in 3 steps of 0/5/10. Initial value is 10. (Normal FL model)

## 9. Backup current measurement

If RESET is activated in the ACC OFF state (when BACKUP button is turned ON), the MUTE terminal turns OFF in 2 seconds, not in 15 seconds. (At this time, the panel/CD/ TAPE mechanism does not operate.)

# TEST MODE

## 10. Special display when the display is All ON

If the PRESET key is pressed while all displays are turned on by ALL OFF, the following display appears.

PRESET 1	Version display (8 digits, Month/Day/Hour/Minute) (Display) xxxxxxxx System microcomputer
PRESET 2	All displays are turned on.
PRESET 3	Short press : Power-ON time display Long press : Power-ON time is cleared. (Display) Pon xxxxx Max. 65535 (hours)
PRESET 4	Short press : TAPE/CD/MD running hour display Long press : TAPE/CD/MD unning hour is cleared. (Display) CDT xxxx (CD/R) TPT xxxx (C/R) Max. 65535 (hours)
PRESET 5	Short press : TAPE/CD/MD eject count display Long press : TAPE/CD/MD eject count is cleared. (Display) EJT xxxx Max. 65535 (times)
PRESET 6	Short press : PANEL open/close count display Long press : PANEL open/close count is cleared. (Display) PCX xxxxx Max. 65535 (times)

- \* Write timing into EEPROM is when ACC OFF and POWER OFF sequence is completed.

## 11. Others

- Displays such as "CODE OFF" are not shown during Power-ON.
- When the CLK key is pressed longer for 1 second during ALL OFF, the product enters the MASK KEY (security) write mode.
- The RESET-LOADING is not performed unless CD is already caught in the CD/R mode.

## ■ Security-related information

### • Forced Power ON mode (All models)

Even when security (MASK key) is enabled, the product can be powered ON for 30 minutes only by pressing the RESET key while both of the ATT key and the Preset 4 keys are being pressed. The product will recover only by RESET if 30 minutes have elapsed.

### • Security code registration procedure (code security model) after EEPROM (F/E) is replaced.

1. Let the product enter the test mode. (See 1. How to Enter Test Mode)

2. Enter the security registration mode by pressing the CLK key.

3. Enter the CODE by pressing the Track up/down and AM/FM key.

Example: To enter "3510"

- Press the FM key four times.
- Press the Track up key once and the FM key six times.
- Press the Track up key once and the FM key twice times.
- Press the Track up key once and the FM key once times.
- When the AM key is pressed, the codes are searched in reversed direction. When Track down key is pressed, the entry digits return.

4. When the DISP key is pressed for three seconds, the message "RE-ENTER" appears. Then enter the code referring to step 3.

5. Press the DISP key for three second so that the message "APPROVED" appears.

6. Quit the test mode. (See item 2. How to quit the test mode.)

(Note) The security code of this model cannot be all cleared.

### • Simple security code clear procedure (K type only)

1. Press the VOL UP key longer for 3 seconds while pressing the DISP key during requesting the code. (The message ---- disappears.)

2. Enter "KCAR" from remote control. (Same as the 00 model)

- Press the 5 key twice on remote control and press the Track up key. (Enter "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. The security is released and the product enters the ALL OFF mode.

4. If incorrect code is entered by mistake, the product enters the code-requesting mode.

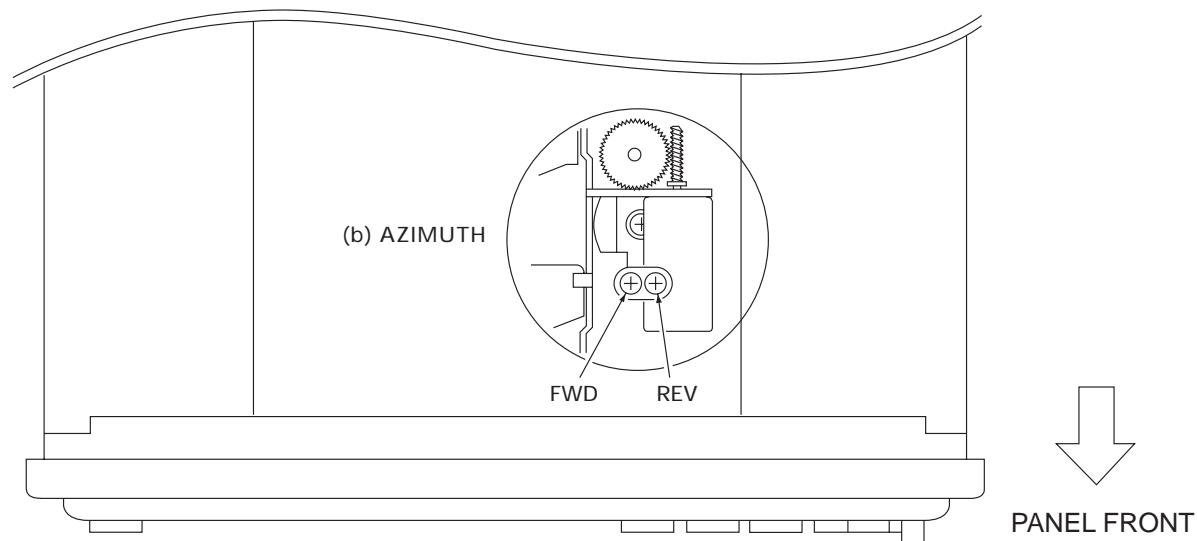
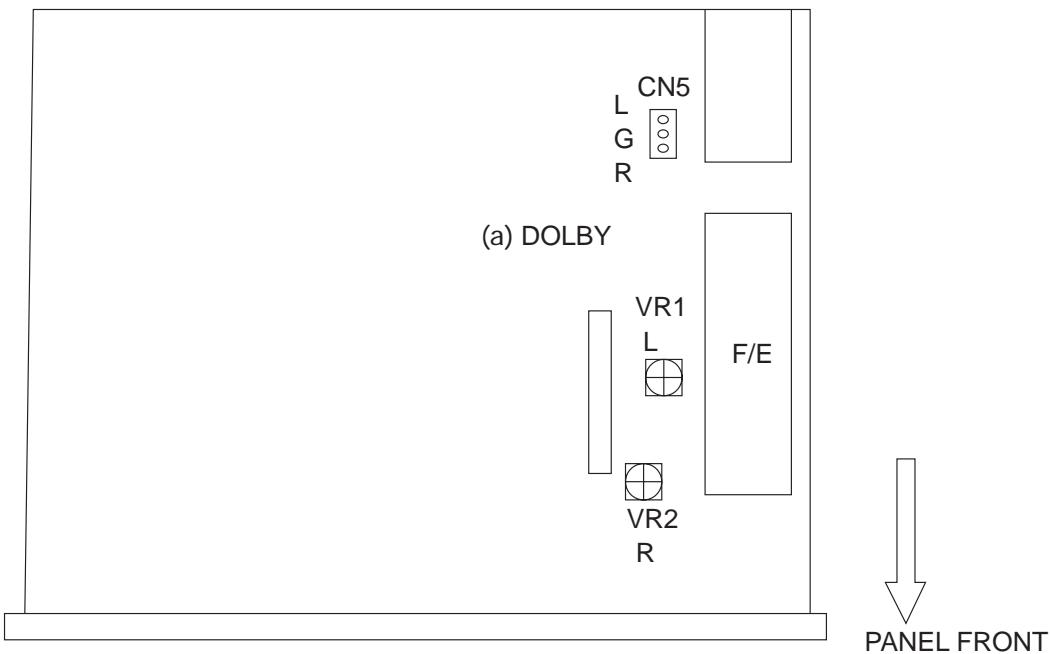
# KRC-765/691/691Y

## ADJUSTMENT

BALANCE/FADER/BASS/MID/TREBLE : CENTER

T.ADV/METAL/DOLBY NR : OFF

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	AZIMUTH	TCC-153 10kHz	SP OUT	Head azimuth screw (FWD/REV)	Adjust so that output level in playing FWD and REV becomes maximum each.	(b)
2	DOLBY (PLAY BACK LEVEL)	TCC-130	Connect an AC voltmeter to CN5 (X14-).	VR1 (L) VR2 (R)	388mV	(a)



A B C D E F G H I

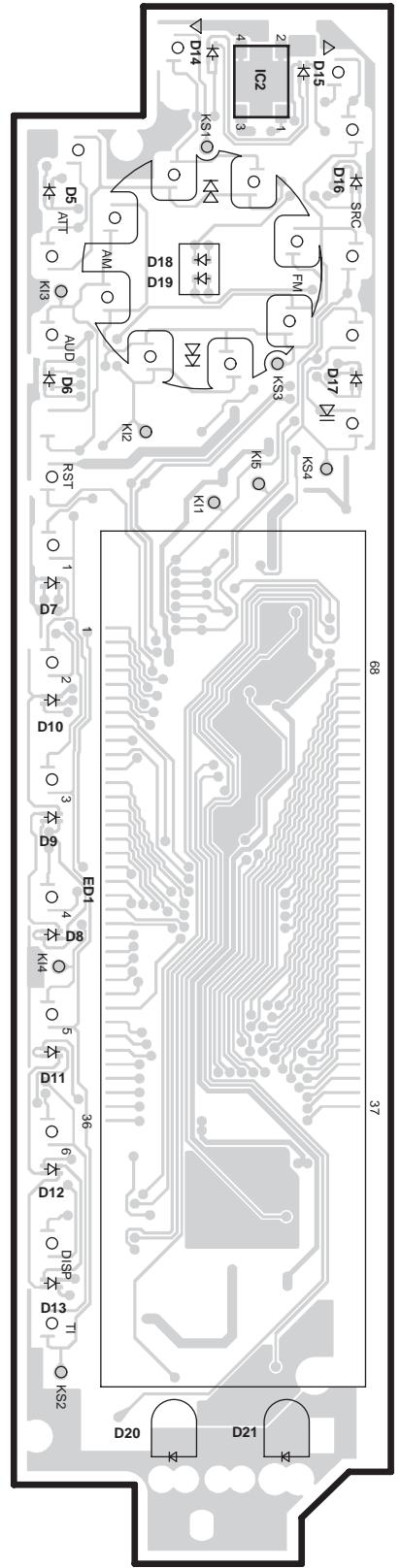
## PC BOARD (Component Side View)

### SWITCH UNIT

SWITCH UNIT  
(X16-1640-10/1662-70)

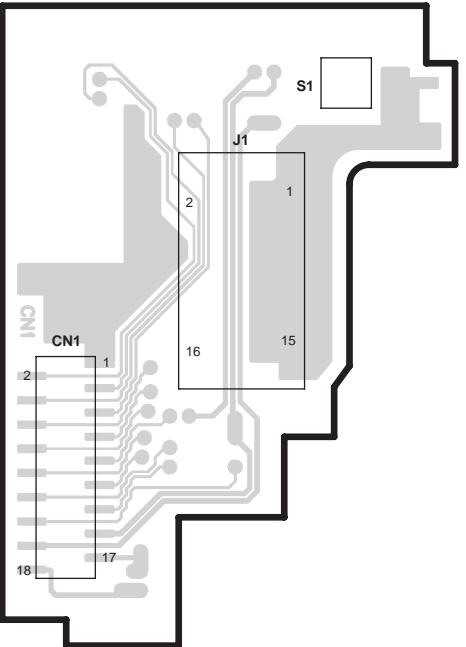
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IC	Q
2	2B

X16-1640-10/1662-70 (J74-1314-02)



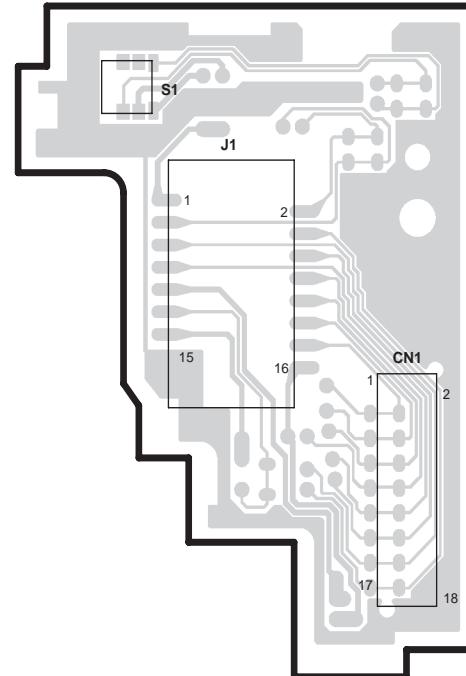
### DAUGHTER UNIT

DAUGHTER UNIT  
(X89-2510-10/2522-70 (J74-1325-02))



### DAUGHTER UNIT

DAUGHTER UNIT  
(X89-2510-10/2522-70 (J74-1325-02))

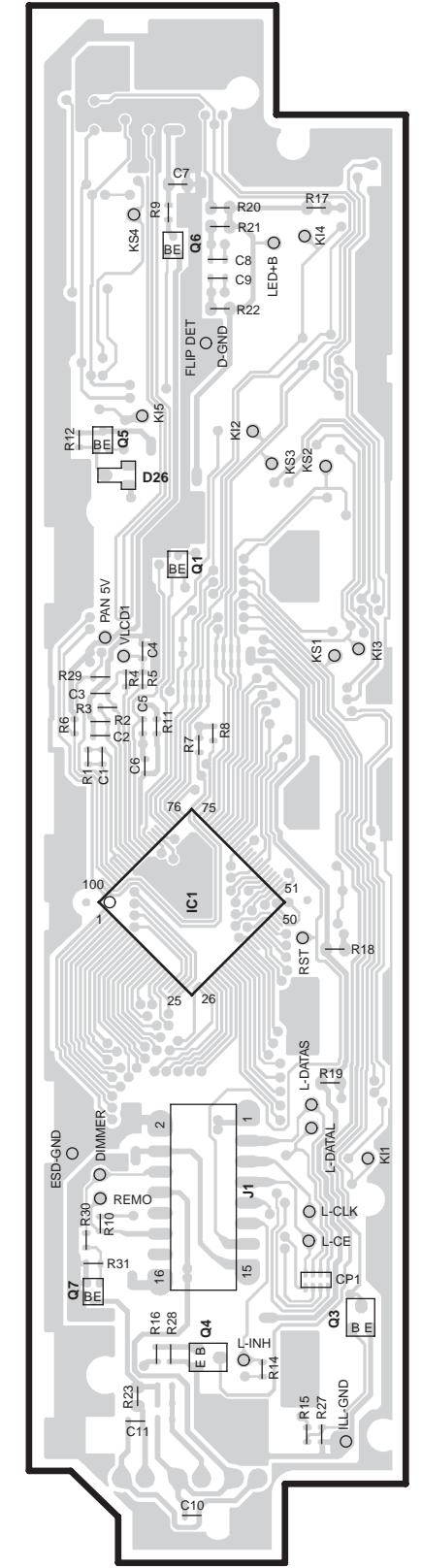


### SWITCH UNIT

SWITCH UNIT  
(X16-1640-10/1662-70)

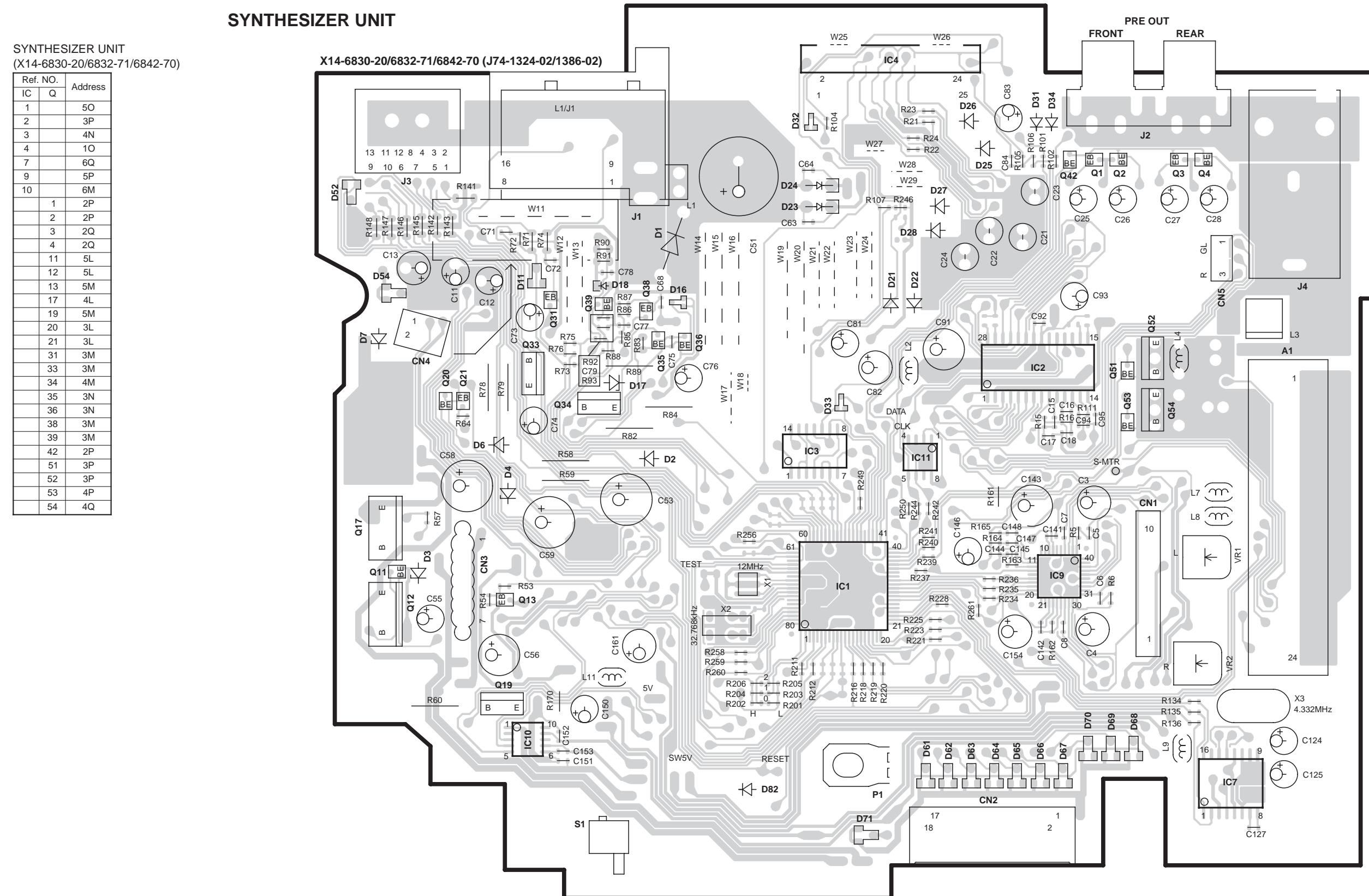
SWITCH UNIT  
(X16-1640-10/1662-70)

Ref. NO.	Address
IC	Q
1	4H
1	3H
3	6I
4	6H
5	3H
6	2H
7	6H



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

## PC BOARD (Component Side View)

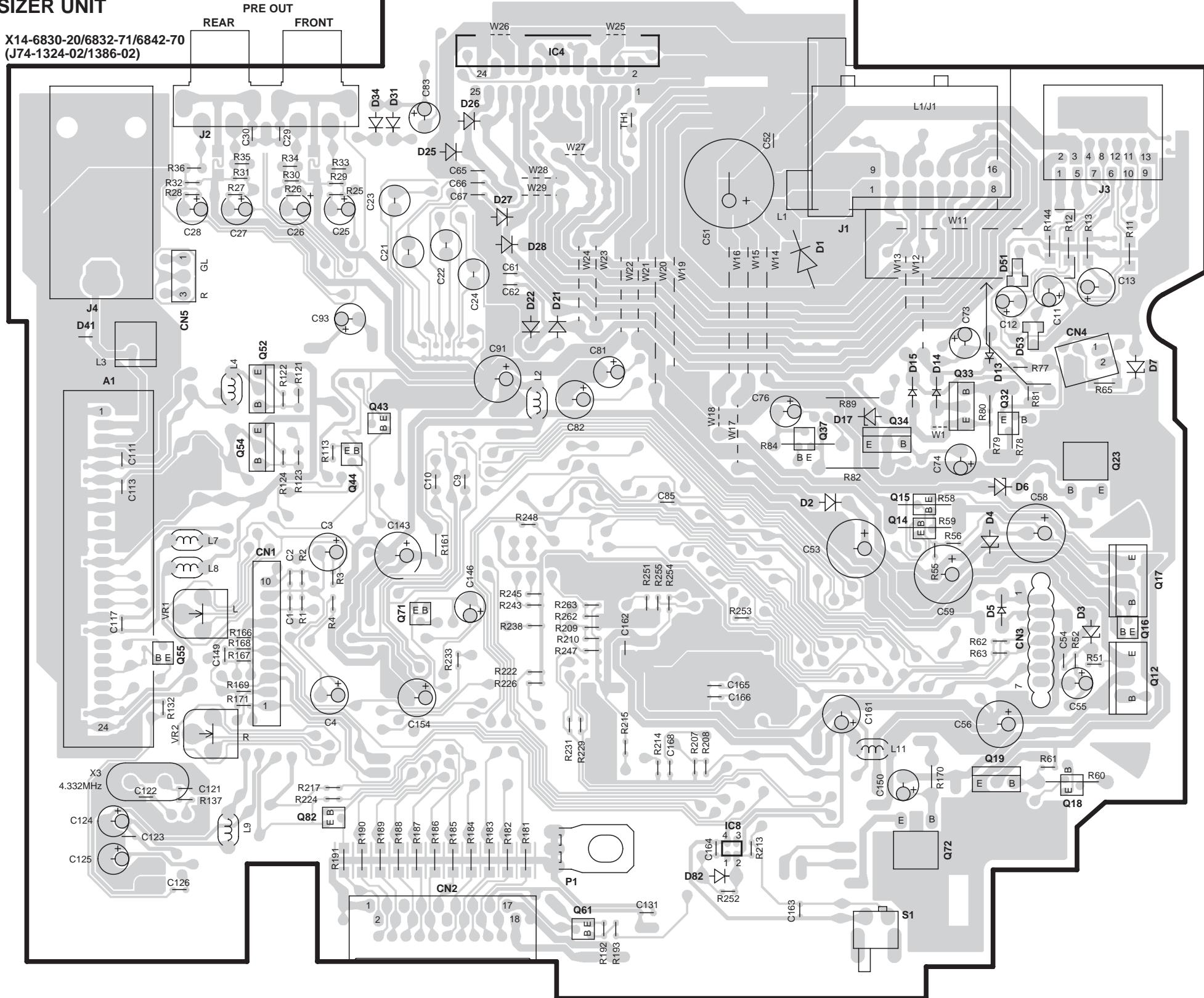


Refer to the schematic diagram for the values of resistors and capacitors

# PC BOARD (Foil Side View)

## SYNTHESIZER UNIT

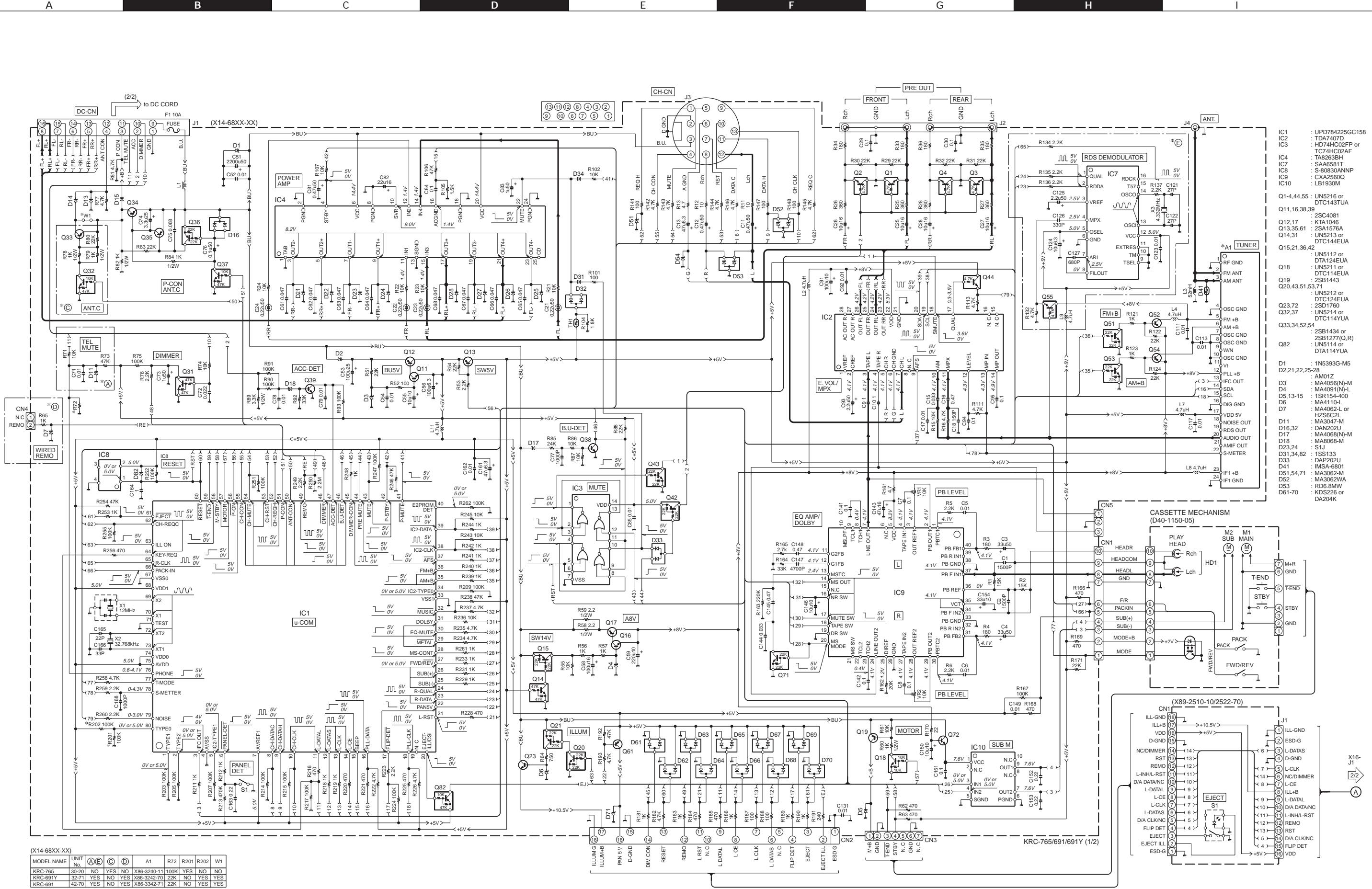
X14-6830-20/6832-71/6842-70  
(J74-1324-02/1386-02)



SYNTHESIZER UNIT  
(X14-6830-20/6832-71/6842-70)

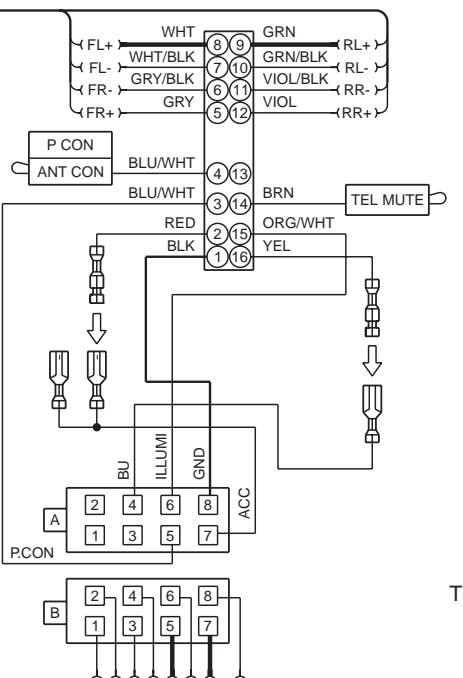
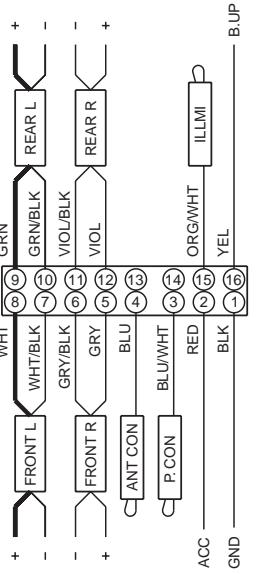
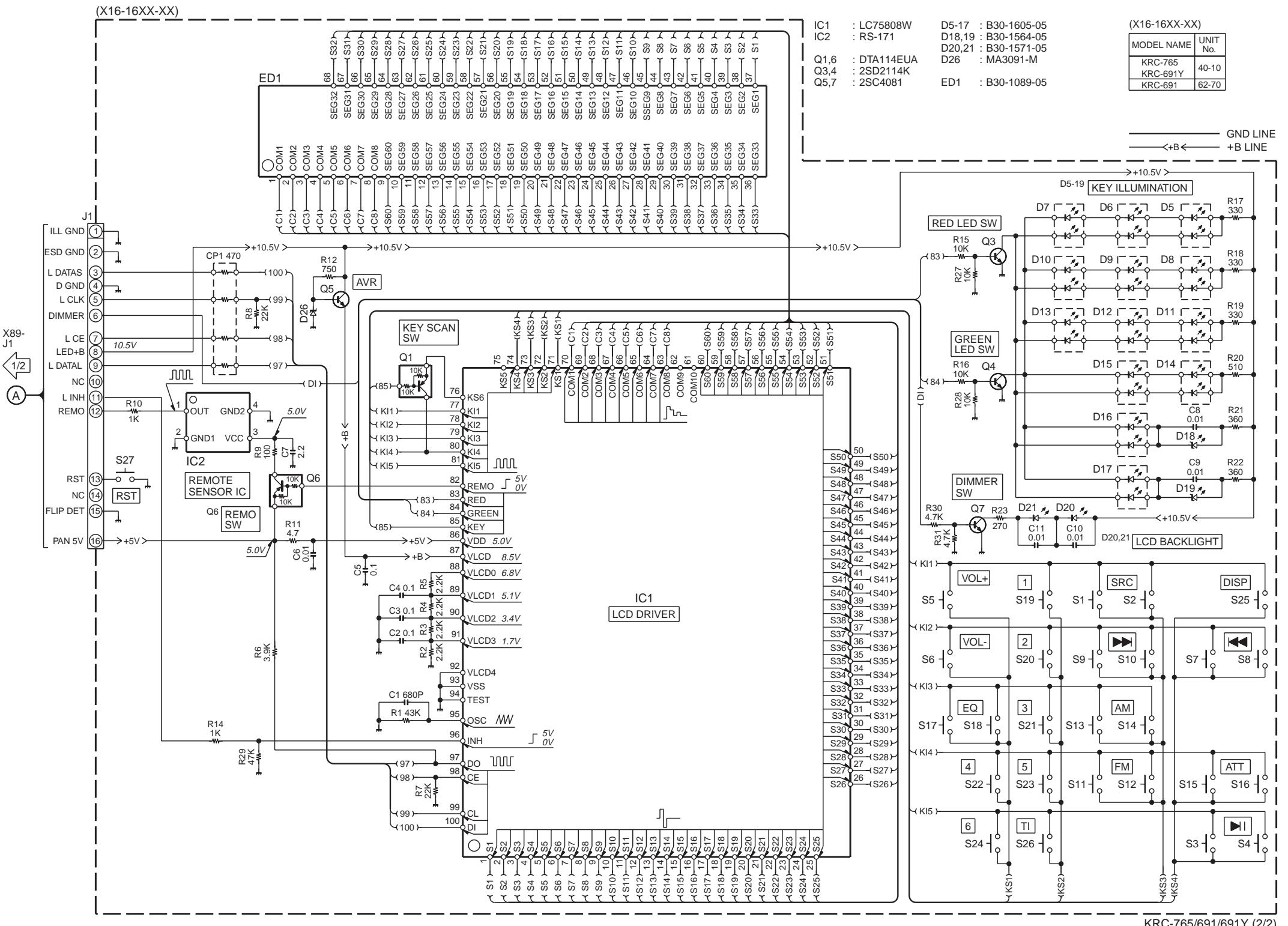
Ref. NO.	IC	Q	Address
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8			6W
			12 5Y
			14 4X
			15 4X
			16 5Y
			17 4Y
			18 5Y
			19 5X
			23 4Y
			32 3X
			33 3X
			34 3X
			37 3W
			43 3U
			44 4U
			52 3U
			54 4U
			55 5T
			61 6V
			71 4U
			72 6X
			82 6U

**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 and/or units.

J K L M N O P Q R

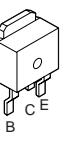


DC CORD  
(E30-4944) : KRC-691Y  
(E30-4958) : KRC-691

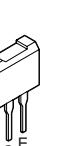


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DTC143TUA UN5216  
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UN5211 2SD2114K  
UN5213

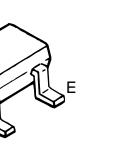
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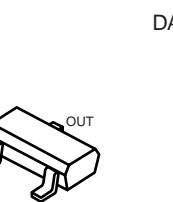
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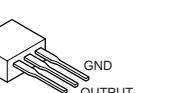
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DAN202U



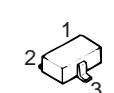
KTA1046



DAP202U  
DA204K  
DTA114YUA



UN5212



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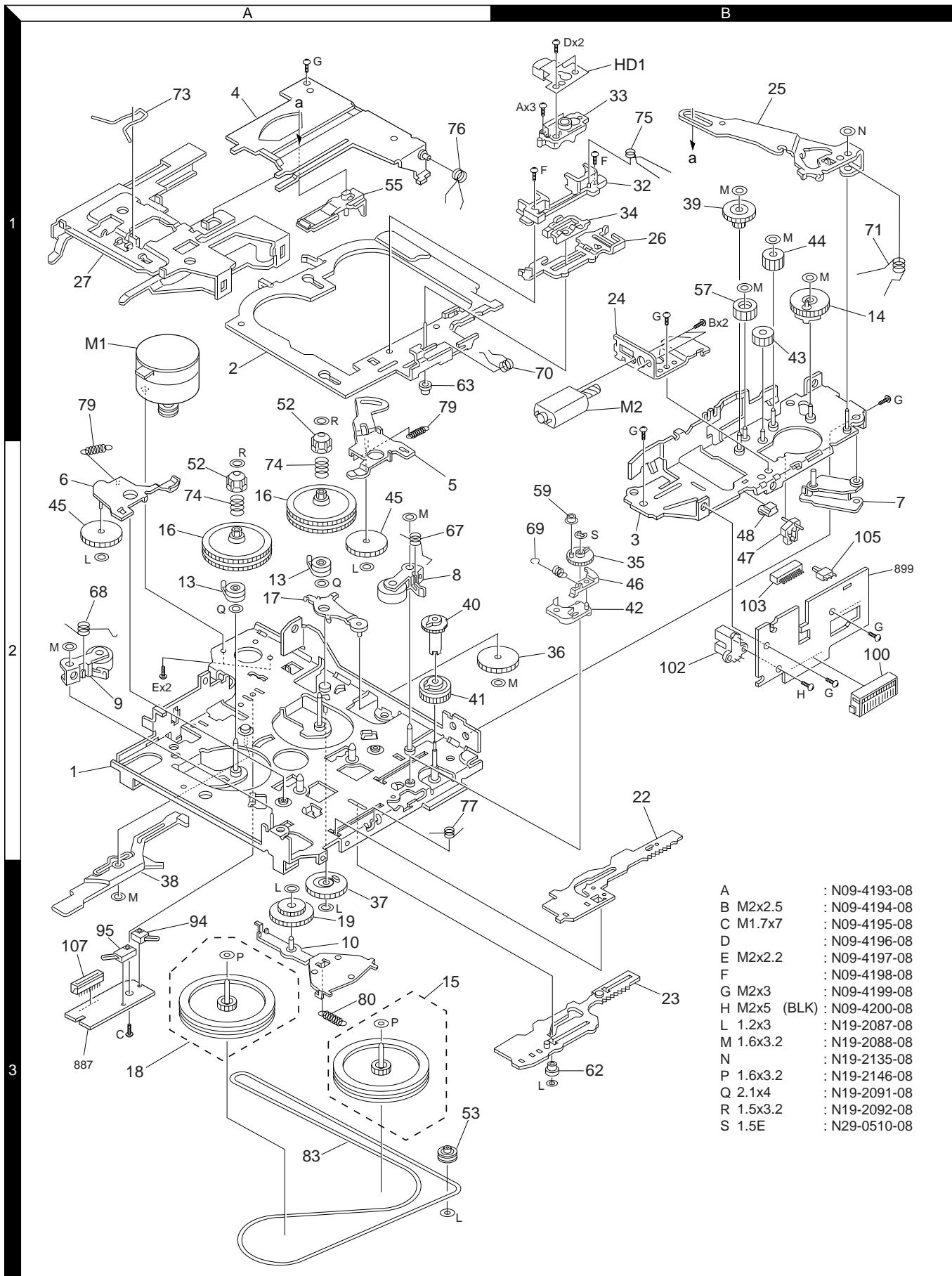
**KRC-765/691/691Y**

**KENWOOD**

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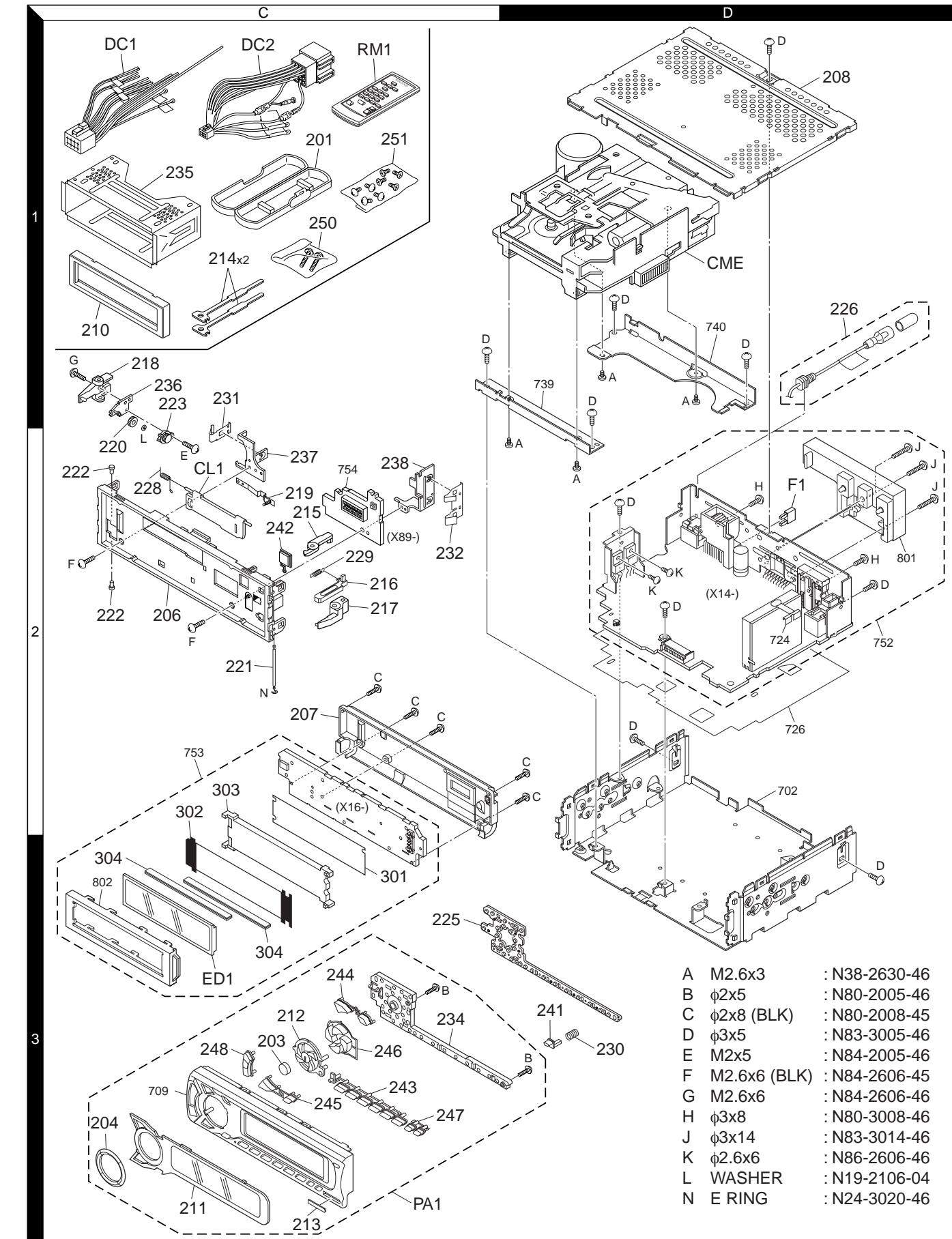
KRC-765/691/691Y

## EXPLODED VIEW (MECHANISM)



KRC-765/691/691Y

## EXPLODED VIEW (UNIT)



# PARTS LIST

### \* New Parts

Parts without Parts No. are not supplied.

Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Les articles non mentionnés dans le Parts No werden nicht geliefert.

Ref.No.	A d d	N e d	Parts No.	Description	Dest inati on
<b>KRC-765/691/691Y</b>					
201	1C	A02-1486-13	PLASTIC CABINET ASSY		
203	3C	A21-4172-04	DRESSING PANEL		
204	3C	A21-4174-03	DRESSING PANEL		
206	2C	A22-2938-01	SUB PANEL		
207	2C	A46-1754-01	REAR COVER		
208	1D	A52-0807-02	TOP PLATE		
CL1	2C	A53-1687-03	CASSETTE LID		
PA1	3C *	A64-2611-02	PANEL ASSY	M1	
PA1	3C *	A64-2614-02	PANEL ASSY	E1,E	
RM1	1C	A70-2025-05	REMOTE CONTROLLER ASSY RC-410	M1	
210	1C	B07-3055-02	ESCUOTHEON		
211	3C *	B10-4189-01	FRONT GLASS	M1	
211	3C *	B10-4192-01	FRONT GLASS	E1,E	
212	3C	B19-2138-03	LIGHTING BOARD		
213	3C	B43-1284-04	BADGE		
-		B46-0100-50	WARRANTY CARD	M1	
-		B46-0612-14	ID CARD		
-		B64-2236-00	INSTRUCTION MANUAL	E,T	M1
-		B64-2238-00	INSTRUCTION MANUAL	E,R,O	E1
-		B64-2239-00	INSTRUCTION MANUAL	Z,H,C,L	E1
-		B64-2240-00	INSTRUCTION MANUAL	E,F,G	E
-		B64-2241-00	INSTRUCTION MANUAL	D,I,S,P	E
214	1C	D10-4589-04	LEVER		
215	2C	D10-4666-04	LEVER		
216	2C	D10-4667-04	LEVER		
217	2C	D10-4668-04	LEVER		
218	1C	D10-4669-03	LEVER		
219	2C	D10-4673-04	LEVER ASSY		
220	2C	D13-2232-04	GEAR		
221	2C	D21-2404-04	SHAFT		
222	2C	D21-2405-04	SHAFT		
223	2C	D39-0255-05	DAMPER		
CME	1D	D40-1150-05	CASSETTE MECHANISM ASSY		
225	3C	E29-1881-02	CONDUCTIVE RUBBER		
226	1D *	E30-6076-05	CORD WITH CONNECTOR	E1,E	
DC1	1C	E30-4940-05	DC CORD	M1	
DC2	1C	E30-4944-05	DC CORD	E1,E	
F1	2D	F52-0006-05	FUSE(MINI BLADE TYPE)		
F1	2D	F52-0011-05	FUSE(MINI BLADE TYPE)		
228	2C	G01-2525-04	TORSION COIL SPRING		
229	2C	G01-3128-04	EXTENSION SPRING		
230	3D	G01-3129-04	COMPRESSION SPRING		
231	2C	G02-1425-04	FLAT SPRING		
232	2C	G02-1426-04	FLAT SPRING		
-		H10-4799-02	POLYSTYRENE FOAMED FIXTURE		
-		H25-0329-04	PROTECTION BAG (280X450X0.03)		
-		H25-0337-04	PROTECTION BAG (180X300X0.03)		
-	*	H54-2293-03	ITEM CARTON CASE	E	
-	*	H54-2297-03	ITEM CARTON CASE	M1	
-	*	H54-2300-03	ITEM CARTON CASE	E1	

Ref.No.	A d d	N e w	Parts No.	Description			Dest inat ion
234	3C	J19-5138-02	HOLDER				
235	1C	J21-9716-03	MOUNTING HARDWARE ASSY				
236	1C	J21-9809-04	MOUNTING HARDWARE ASSY				
237	1C	J21-9811-03	MOUNTING HARDWARE				
238	2C	J21-9812-03	MOUNTING HARDWARE				
241	3D	K24-3831-04	KNOB	REL.			
242	2C	K24-3832-04	KNOB	EJECT			
243	3C	K25-1409-03	KNOB	1-6			
244	3C	K25-1410-03	KNOB	SRC			
245	3C	K25-1411-03	KNOB	ATT			
246	3C	K25-1412-03	KNOB	FM,AM			
247	3C	K25-1413-03	KNOB	DISP			
248	3C	K25-1414-03	KNOB	VOL.			
250	1C	N99-1656-05	SCREW SET				
251	1C	N99-1719-05	SCREW SET				M1
A	2D	N38-2630-46	PAN HEAD MACHIN SCREW				
B	3C	N80-2005-46	PAN HEAD TAPITIE SCREW				
C	2C	N80-2008-45	PAN HEAD TAPITIE SCREW				
D	1D	N83-3005-46	PAN HEAD TAPITIE SCREW				
E	2C	N84-2005-46	PAN HEAD TAPITIE SCREW				
F	2C	N84-2606-45	PAN HEAD TAPITIE SCREW				
G	1C	N84-2606-46	PAN HEAD TAPITIE SCREW				
L	2C	N19-2106-04	FLAT WASHER				
N	2C	N24-3020-46	E TYPE RETAINING RING(2φ)				
252	1C	T90-0523-05	ANTENNA ADAPTOR				E1,E
<b>SYNTHESIZER UNIT (X14-68XX-XX)</b>							
C1,2		CK73GB1H152K	CHIP C	1500PF	K		
C3,4		CE04CW1A330M	ELECTRO	33UF	10WV		
C5,6		CK73GB1H103K	CHIP C	0.010UF	K		
C7,8		CK73GB1C104K	CHIP C	0.10UF	K		
C7,8		CK73GB1H104K	CHIP C	0.10UF	K		
C9,10		CK73FB1C105K	CHIP C	1.0UF	K		
C11,12		C90-2606-05	ELECTRO	0.47UF	50WV		
C13		CE04CW0J470M	ELECTRO	47UF	6.3WV		
C15		CK73GB1E333K	CHIP C	0.033UF	K		
C15		CK73GB1H333K	CHIP C	0.033UF	K		
C16		CK73GB1A474K	CHIP C	0.47UF	K		
C17		CK73GB1H103K	CHIP C	0.010UF	K		
C18		CC73GCH1H151J	CHIP C	150PF	J		
C21-24		C90-5297-05	NP-ELECT	0.22UF	50WV		
C25-28		C90-2597-05	ELECTRO	10UF	16WV		
C29,30		CK73FB1H104K	CHIP C	0.10UF	K		
C51		C90-5235-05	ELECTRO	2200UF	16WV		
C52		CK73GB1H103K	CHIP C	0.010UF	K		
C53		CE04CW1E101M	ELECTRO	100UF	25WV		
C54		CK73GB1H103K	CHIP C	0.010UF	K		
C55		C90-2594-05	ELECTRO	10UF	10WV		
C56		CE04CW0J101M	ELECTRO	100UF	6.3WV		
C58		CE04CW1C101M	ELECTRO	100UF	16WV		
C59		CE04CW1A221M	ELECTRO	220UF	10WV		
C61-68		CK73GB1E473K	CHIP C	0.047UF	K		
C61-68		CK73GB1H473K	CHIP C	0.047UF	K		
C71		CK73GB1H103K	CHIP C	0.010UF	K		E1

M: KRC-765  
E1: KRC-691

E: KRC-691Y

 indicates safety critical components.

## PARTS LIST

\* New Parts

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Teile ohneh Parts No. werden nicht geliefert.

## SYNTHESIZER UNIT (X14-68XX-XX)

Ref.No.	A d d w	N e w	Parts No.	Description	Dest inati on	Ref.No.	A d d w	N e w	Parts No.	Description	Dest inati on	
C72			CK73GB1E223K	CHIP C	0.022UF K	CN5			E40-9184-05	PIN ASSY		
C73			C90-2608-05	ELECTRO	1.0UF 50WV	J1			E58-0863-15	RECTANGULAR RECEPTACLE		
C74			C90-2598-05	ELECTRO	3.3UF 25WV	J2			E63-0877-05	PIN JACK		
C75			CK73GB1C683K	CHIP C	0.068UF K	J3			E56-0834-05	CYLINDRICAL RECEPTACLE		
C75			CK73GB1H683K	CHIP C	0.068UF K	J4			E04-0312-05	RF COAXIAL CABLE RECEPTACLE		
C76			C90-2602-05	ELECTRO	0.10UF 50WV	P1			E23-0745-05	TERMINAL		
C77			CK73GB1H102K	CHIP C	1000PF K	L1			L33-1170-05	CHOKE COIL ASSY		
C78,79			CK73GB1H103K	CHIP C	0.010UF K	L2			L40-4795-91	SMALL FIXED INDUCTOR(4.7UH,J)		
C81			C90-2606-05	ELECTRO	0.47UF 50WV	L3			L33-1123-05	LINE FILTER COIL		
C82			CE04CW1C220M	ELECTRO	22UF 16WV	L4			L40-4795-91	SMALL FIXED INDUCTOR(4.7UH,J)		
C83			C90-2608-05	ELECTRO	1.0UF 50WV	L7-9			L40-4795-91	SMALL FIXED INDUCTOR(4.7UH,J)	E1	
C84			CK73GB1C104K	CHIP C	0.10UF K	L7,8			L40-4795-91	SMALL FIXED INDUCTOR(4.7UH,J)	M1	
C84			CK73GB1H104K	CHIP C	0.10UF K	L11			L40-4795-91	SMALL FIXED INDUCTOR(4.7UH,J)		
C85			CK73GB1H103K	CHIP C	0.010UF K	X1			L78-0863-05	RESONATOR(12MHZ)		
C91			CE04CW1A101M	ELECTRO	100UF 10WV	X2			L77-2738-05	CRYSTAL RESONATOR		
C92			CK73GB1H103K	CHIP C	0.010UF K	X3			L77-2002-05	CRYSTAL RESONATOR	E1	
C93			C90-2610-05	ELECTRO	2.2UF 50WV	D	2D		N83-3005-46	PAN HEAD TAPITIE SCREW		
C94,95			CK73GB1C104K	CHIP C	0.10UF K	H	2D		N80-3008-46	PAN HEAD TAPITIE SCREW		
C94,95			CK73GB1H104K	CHIP C	0.10UF K	J	2D		N83-3014-46	PAN HEAD TAPITIE SCREW		
C111			CK73GB1H103K	CHIP C	0.010UF K	K	2D		N86-2606-46	BINDING HEAD TAPITIE SCREW		
C113			CK73GB1H103K	CHIP C	0.010UF K	R1,2			RK73GB2A153J	CHIP R	15K J 1/10W	
C117			CK73GB1H103K	CHIP C	0.010UF K	R3,4			RK73GB2A181J	CHIP R	180 J 1/10W	
C121,122			CC73GCH1H270J	CHIP C	27PF J	E1			RK73GB2A222J	CHIP R	2.2K J 1/10W	
C123			CK73GB1H103K	CHIP C	0.010UF K	E1			RK73EB2E100J	CHIP R	10 J 1/4W	
C124			C90-2592-05	ELECTRO	10UF 6.3WV	E1			RK73EB2E4R7J	CHIP R	4.7 J 1/4W	
C125			C90-2610-05	ELECTRO	2.2UF 50WV	E1			R15	RK73GB2A103J	CHIP R	10K J 1/10W
C126			CC73GCH1H331J	CHIP C	330PF J	E1			R16	RK73GB2A472J	CHIP R	4.7K J 1/10W
C127			CC73GCH1H681J	CHIP C	680PF J	E1			R21-24	RK73GB2A103J	CHIP R	10K J 1/10W
C131			CK73GB1H103K	CHIP C	0.010UF K	E1			R25-28	RK73GB2A361J	CHIP R	360 J 1/10W
C141,142			CK73GB1C104K	CHIP C	0.10UF K	E1			R29-32	RK73GB2A223J	CHIP R	22K J 1/10W
C141,142			CK73GB1H104K	CHIP C	0.10UF K	R33-36			RK73FB2B181J	CHIP R	180 J 1/8W	
C143			CE04CW1C470M	ELECTRO	47UF 16WV	R51			RK73GB2A223J	CHIP R	22K J 1/10W	
C144			CK73GB1E333K	CHIP C	0.033UF K	R52			RK73GB2A101J	CHIP R	100 J 1/10W	
C144			CK73GB1H333K	CHIP C	0.033UF K	R53			RK73GB2A222J	CHIP R	2.2K J 1/10W	
C145			CK73GB1A474K	CHIP C	0.47UF K	R54			RK73GB2A223J	CHIP R	22K J 1/10W	
C146			C90-2594-05	ELECTRO	10UF 10WV	R55			RK73GB2A103J	CHIP R	10K J 1/10W	
C147			CK73GB1H472K	CHIP C	4700PF K	R56,57			RK73GB2A102J	CHIP R	1.0K J 1/10W	
C148			CK73GB1A474K	CHIP C	0.47UF K	R58,59			RD14DB2H2R2J	SMALL-RD	2.2 J 1/2W	
C149			CK73GB1H103K	CHIP C	0.010UF K	R60			RD14DB2H102J	SMALL-RD	1.0K J 1/2W	
C150			C90-2594-05	ELECTRO	10UF 10WV	R61			RK73GB2A103J	CHIP R	10K J 1/10W	
C151			CK73GB1C104K	CHIP C	0.10UF K	R62,63			RK73GB2A471J	CHIP R	470 J 1/10W	
C151			CK73GB1H104K	CHIP C	0.10UF K	R64			RK73GB2A751J	CHIP R	750 J 1/10W	
C152,153			CK73GB1A224K	CHIP C	0.22UF K	R65			RK73EB2E102J	CHIP R	1.0K J 1/4W	
C154			CE04CW1A330M	ELECTRO	33UF 10WV	R71			RK73EB2E103J	CHIP R	10K J 1/4W	
C161			CE04CW0J470M	ELECTRO	47UF 6.3WV	R72			RK73GB2A104J	CHIP R	100K J 1/10W	
C162			CK73GB1H103K	CHIP C	0.010UF K	R72			RK73GB2A223J	CHIP R	22K J 1/10W	
C163			CK73GB1A224K	CHIP C	0.22UF K	R73			RK73GB2A473J	CHIP R	47K J 1/10W	
C164			CK73GB0J105K	CHIP C	1.0UF K	R74			RK73EB2E103J	CHIP R	10K J 1/4W	
C165			CC73GCH1H220J	CHIP C	22PF J	R75			RK73GB2A104J	CHIP R	100K J 1/10W	
C166			CC73GCH1H330J	CHIP C	33PF J	R76			RK73GB2A222J	CHIP R	2.2K J 1/10W	
C168			CK73GB1H102K	CHIP C	1000PF K	R77			RK73FB2B472J	CHIP R	4.7K J 1/8W	
CN1			E40-9541-05	PIN ASSY		R78,79			RD14DB2H102J	SMALL-RD	1.0K J 1/2W	
CN2			E41-0167-05	PIN ASSY		R80			RK73GB2A223J	CHIP R	22K J 1/10W	
CN4			E40-3260-05	PIN ASSY	E1	R81			RK73FB2B472J	CHIP R	4.7K J 1/8W	

M: KRC-765

E: KRC-691Y

E1: KRC-691

 indicates safety critical components.

## PARTS LIST

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Teile ohne Parts No. werden nicht geliefert.

SYNTHESIZER U-NIT (X14-68XX-XX)

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
R82			RD14DB2H102J	SMALL-RD	1.0K	J	1/2W	R217			RK73GB2A104J	CHIP R	100K	J	1/10W
R83			RK73FB2B223J	CHIP R	22K	J	1/8W	R218,219			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R84			RD14DB2H102J	SMALL-RD	1.0K	J	1/2W	R220,221			RK73GB2A471J	CHIP R	470	J	1/10W
R85			RK73GB2A243J	CHIP R	24K	J	1/10W	R222			RK73GB2A472J	CHIP R	4.7K	J	1/10W
R86,87			RK73GB2A103J	CHIP R	10K	J	1/10W	R223			RK73GB2A222J	CHIP R	2.2K	J	1/10W
R88			RK73GB2A223J	CHIP R	22K	J	1/10W	R224			RK73GB2A104J	CHIP R	100K	J	1/10W
R89			RD14DB2H32J	SMALL-RD	3.3K	J	1/2W	R225			RK73GB2A471J	CHIP R	470	J	1/10W
R90,91			RK73FB2B104J	CHIP R	100K	J	1/8W	R226			RK73GB2A472J	CHIP R	4.7K	J	1/10W
R92			RK73GB2A333J	CHIP R	33K	J	1/10W	R228			RK73GB2A471J	CHIP R	470	J	1/10W
R93			RK73GB2A104J	CHIP R	100K	J	1/10W	R229			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R101			RK73GB2A101J	CHIP R	100	J	1/10W	R231			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R102			RK73GB2A103J	CHIP R	10K	J	1/10W	R233			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R104			RK73GB2A182J	CHIP R	1.8K	J	1/10W	R234,235			RK73GB2A472J	CHIP R	4.7K	J	1/10W
R105			RK73GB2A152J	CHIP R	1.5K	J	1/10W	R236			RK73GB2A103J	CHIP R	10K	J	1/10W
R106			RK73GB2A473J	CHIP R	47K	J	1/10W	R237			RK73GB2A472J	CHIP R	4.7K	J	1/10W
R107			RK73GB2A103J	CHIP R	10K	J	1/10W	R238			RK73GB2A473J	CHIP R	47K	J	1/10W
R111			RK73GB2A472J	CHIP R	4.7K	J	1/10W	R239-242			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R113			RK73GB2A472J	CHIP R	4.7K	J	1/10W	R243			RK73GB2A103J	CHIP R	10K	J	1/10W
R121			RK73FB2B102J	CHIP R	1.0K	J	1/8W	R244			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R122			RK73GB2A223J	CHIP R	22K	J	1/10W	R245			RK73GB2A103J	CHIP R	10K	J	1/10W
R123			RK73FB2B102J	CHIP R	1.0K	J	1/8W	R246			RK73GB2A473J	CHIP R	47K	J	1/10W
R124			RK73GB2A223J	CHIP R	22K	J	1/10W	R247			RK73GB2A104J	CHIP R	100K	J	1/10W
R132			RK73GB2A472J	CHIP R	4.7K	J	1/10W	R248			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R134-137			RK73GB2A222J	CHIP R	2.2K	J	1/10W	E1			RK73GB2A222J	CHIP R	2.2K	J	1/10W
R141			RK73EB2E101J	CHIP R	100	J	1/4W	E1			RK73GB2A225J	CHIP R	2.2M	J	1/10W
R142-146			RK73EB2E472J	CHIP R	4.7K	J	1/4W	R251,252			RK73GB2A104J	CHIP R	100K	J	1/10W
R147,148			RK73EB2E101J	CHIP R	100	J	1/4W	R253			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R162			RK73GB2A203J	CHIP R	20K	J	1/10W	R254			RK73GB2A473J	CHIP R	47K	J	1/10W
R163			RK73GB2A224J	CHIP R	220K	J	1/10W	R255			RK73GB2A104J	CHIP R	100K	J	1/10W
R164			RK73GB2A333J	CHIP R	33K	J	1/10W	R256			RK73GB2A471J	CHIP R	470	J	1/10W
R165			RK73GB2A272J	CHIP R	2.7K	J	1/10W	R258			RK73GB2A472J	CHIP R	4.7K	J	1/10W
R166			RK73GB2A471J	CHIP R	470	J	1/10W	R259,260			RK73GB2A222J	CHIP R	2.2K	J	1/10W
R167			RK73GB2A104J	CHIP R	100K	J	1/10W	R261			RK73GB2A102J	CHIP R	1.0K	J	1/10W
R168,169			RK73GB2A471J	CHIP R	470	J	1/10W	R262			RK73GB2A104J	CHIP R	100K	J	1/10W
R171			RK73GB2A223J	CHIP R	22K	J	1/10W	VR1,2			VR1,2		32-0037-05		SEMI FIXED VARIABLE RESISTOR
R181			RK73EB2E102J	CHIP R	1.0K	J	1/4W	W1			R92-1252-05	CHIP R	0 OHM	J	1/16W
R182			RK73EB2E472J	CHIP R	4.7K	J	1/4W	S1			S74-0811-05		MICRO SWITCH		E1
R183			RK73EB2E102J	CHIP R	1.0K	J	1/4W	D1			1N5393G-M5		DIODE		
R184,185			RK73EB2E471J	CHIP R	470	J	1/4W	D2			AM01Z		DIODE		
R186			RK73EB2E102J	CHIP R	1.0K	J	1/4W	D3			MA4056(N)-M		ZENER DIODE		
R187,188			RK73EB2E101J	CHIP R	100	J	1/4W	D4			MA4091(N)-L		ZENER DIODE		
R189,190			RK73EB2E102J	CHIP R	1.0K	J	1/4W	D5			1SR154-400		DIODE		
R191			RK73EB2E241J	CHIP R	240	J	1/4W	D6			MA4110-L		ZENER DIODE		
R192			RK73GB2A473J	CHIP R	47K	J	1/10W	D7			HZS6C2L		ZENER DIODE		E1
R193			RK73GB2A472J	CHIP R	4.7K	J	1/10W	D11			MA4062-L		ZENER DIODE		E1
R201			RK73GB2A104J	CHIP R	100K	J	1/10W	M1			MA3047-M		ZENER DIODE		E1
R202,203			RK73GB2A104J	CHIP R	100K	J	1/10W	E1			1SR154-400		DIODE		E1
R203			RK73GB2A104J	CHIP R	100K	J	1/10W	D13-15			D16		Diode		
R205			RK73GB2A104J	CHIP R	100K	J	1/10W	D7			DAN202U		Diode		
R207			RK73GB2A104J	CHIP R	100K	J	1/10W	D11			MA4068(N)-M		ZENER DIODE		
R209			RK73GB2A104J	CHIP R	100K	J	1/10W	D13-15			MA8068-M		ZENER DIODE		
R211,212			RK73GB2A102J	CHIP R	1.0K	J	1/10W	D17			AM01Z		Diode		
R213			RK73GB2A474J	CHIP R	470K	J	1/10W	D18			S1J		Diode		
R214,215			RK73GB2A104J	CHIP R	100K	J	1/10W	D21,22			D25-28		AM01Z		Diode
R216			RK73GB2A471J	CHIP R	470	J	1/10W	D23,24							

M: KRC-765

E: KRC-691Y

E1: KRC-691

▲ indicates safety critical components.

## PARTS LIST

\* New Parts

Parts without Parts No. are not supplied.

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

Teile ohneh Parts No. werden nicht geliefert.

SYNTHESIZER UNIT (X14-68XX-XX)  
SWITCH UNIT (X16-16XX-XX)

Ref.No.	A d d d w	N e w	Parts No.	Description	Dest inati on	Ref.No.	A d d d w	N e w	Parts No.	Description	Dest inati on
D31			1SS133	DIODE		Q42			DTA124EUA	DIGITAL TRANSISTOR	
D32			DAN202U	DIODE		Q42			UN5112	DIGITAL TRANSISTOR	
D33			DAP202U	DIODE		Q43			DTC124EUA	DIGITAL TRANSISTOR	
D34			ISS133	DIODE		Q43			UN5212	DIGITAL TRANSISTOR	
D41			IMSA-6801	SURGE ABSORBER		Q44			DTC143TUA	DIGITAL TRANSISTOR	
D51			MA3062-M	ZENER DIODE		Q44			UN5216	DIGITAL TRANSISTOR	
D52			MA3062WA	ZENER DIODE		Q51			DTC124EUA	DIGITAL TRANSISTOR	
D53			RD6.8MW	ZENER DIODE		Q51			UN5212	DIGITAL TRANSISTOR	
D54			MA3062-M	ZENER DIODE		Q52			2SB1277(Q,R)	TRANSISTOR	
D61-70			DA204K	DIODE		Q52			2SB1434	TRANSISTOR	
D61-70			KDS226	DIODE		Q53			DTC124EUA	DIGITAL TRANSISTOR	
D71			MA3062-M	ZENER DIODE		Q53			UN5212	DIGITAL TRANSISTOR	
D82			ISS133	DIODE		Q54			2SB1277(Q,R)	TRANSISTOR	
IC1			UPD784225GC158	MI-COM IC		Q54			2SB1434	TRANSISTOR	
IC2			TD4707D	ANALOGUE IC		Q55			DTC143TUA	DIGITAL TRANSISTOR	E1
IC3			HD74HC02FP	MOS-IC		Q55			UN5216	DIGITAL TRANSISTOR	E1
IC3			TC74HC02AF	MOS-IC		Q61			2SA1576A	TRANSISTOR	
IC4			TA8263BH	ANALOGUE IC		Q71			DTC124EUA	DIGITAL TRANSISTOR	
IC7			SAA6581T	ANALOGUE IC	E1	Q71			UN5212	DIGITAL TRANSISTOR	
IC8			S-80830ANNP	MOS-IC		Q72			2SD1760	TRANSISTOR	
IC9			CXA2560Q	ANALOGUE IC		Q82			DTA114YUA	DIGITAL TRANSISTOR	
IC10			LB1930M	ANALOGUE IC		Q82			UN5114	DIGITAL TRANSISTOR	
Q1-4			DTC143TUA	DIGITAL TRANSISTOR		TH1			PTH9C42BD471Q	POSITIVE RESISTOR	
Q1-4			UN5216	DIGITAL TRANSISTOR							
Q11			2SC4081	TRANSISTOR							
Q12			KTA1046	TRANSISTOR		A1			X86-3240-11	TUNER UNIT	M1
Q13			2SA1576A	TRANSISTOR		A1			X86-3242-70	TUNER UNIT	E1
Q14			DTC144EUA	DIGITAL TRANSISTOR		A1			X86-3342-71	TUNER UNIT	E
Q14			UN5213	DIGITAL TRANSISTOR							
Q15			DTA124EUA	DIGITAL TRANSISTOR							
Q15			UN5112	DIGITAL TRANSISTOR							
Q16			2SC4081	TRANSISTOR							
Q17			KTA1046	TRANSISTOR							
Q18			DTC114EUA	DIGITAL TRANSISTOR							
Q18			UN5211	DIGITAL TRANSISTOR							
Q19			2SB1443	TRANSISTOR							
Q20			DTC124EUA	DIGITAL TRANSISTOR							
Q20			UN5212	DIGITAL TRANSISTOR							
Q21			DTA124EUA	DIGITAL TRANSISTOR							
Q21			UN5112	DIGITAL TRANSISTOR							
Q23			2SD1760	TRANSISTOR							
Q31			DTC144EUA	DIGITAL TRANSISTOR							
Q31			UN5213	DIGITAL TRANSISTOR							
Q32			DTC114YUA	DIGITAL TRANSISTOR	M1						
Q32			UN5214	DIGITAL TRANSISTOR	M1						
Q33,34			2SB1277(Q,R)	TRANSISTOR	M1						
Q33,34			2SB1434	TRANSISTOR	M1						
Q34			2SB1277(Q,R)	TRANSISTOR	E1						
Q34			2SB1434	TRANSISTOR	E1						
Q35			2SA1576A	TRANSISTOR							
Q36			DTA124EUA	DIGITAL TRANSISTOR							
Q36			UN5112	DIGITAL TRANSISTOR							
Q37			DTC114YUA	DIGITAL TRANSISTOR							
Q37			UN5214	DIGITAL TRANSISTOR							
Q38,39			2SC4081	TRANSISTOR							
<b>SWITCH UNIT (X16-16XX-XX)</b>											
301	3C	B11-1366-04		REFLECTION SHEET							
302	3C	B11-1367-04		OPTICAL DIFFUSER							
303	3C	B19-2135-03		LIGHTING BOARD							
D5-17		B30-1605-05		LED(2COLOR PG/RED)							
D18,19		B30-1564-05		LED(1608,BLUE)							
D20,21		B30-1571-05		LED(WHITE)							
ED1		B38-1089-05		LIQUID CRYSTAL							
C1		CC73GCH1H681J	CHIP C	680PF	J						
C2-5		CK73GB1C104K	CHIP C	0.10UF	K						
C6		CK73GB1H103K	CHIP C	0.010UF	K						
C7		CK73FB1A225K	CHIP C	2.2UF	K						
C8-11		CK73GB1H103K	CHIP C	0.010UF	K						
304	3C	E29-1882-04		CONDUCTIVE RUBBER							
J1		E59-0829-05		RECTANGULAR PLUG							
CP1		R90-1016-05	MULTI-COMP	470	X4						
R1		RK73GB2A433J	CHIP R	43K	J	1/10W					
R2-5		RK73GB2A222J	CHIP R	2.2K	J	1/10W					
R6		RK73GB2A392J	CHIP R	3.9K	J	1/10W					
R7,8		RK73GB2A223J	CHIP R	22K	J	1/10W					
R9		RK73GB2A101J	CHIP R	100	J	1/10W					
R10		RK73GB2A102J	CHIP R	1.0K	J	1/10W					
R11		RK73GB2A4R7J	CHIP R	4.7	J	1/10W					
R12		RK73GB2A751J	CHIP R	750	J	1/10W					
R14		RK73GB2A102J	CHIP R	1.0K	J	1/10W					
R15,16		RK73GB2A103J	CHIP R	10K	J	1/10W					
R17-19		RK73FB2B331J	CHIP R	330	J	1/8W					

M: KRC-765

E: KRC-691Y

E1: KRC-691

 indicates safety critical components.

## PARTS LIST

\* New Parts

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

Teile ohne Parts No. werden nicht geliefert.

**SWITCH UNIT (X16-16XX-XX)**  
**DAUGHTER UNIT (X89-25XX-XX)**  
**CASSETTE MECHANISM ASSY (D40-1150-05)**

Ref.No.	A d d d w	N e e e w	Parts No.	Description	Dest inati on
R20			RK73FB2B511J	CHIP R	510 J 1/8W
R21,22			RK73FB2B361J	CHIP R	360 J 1/8W
R23			RK73FB2B271J	CHIP R	270 J 1/8W
R27,28			RK73GB2A103J	CHIP R	10K J 1/10W
R29			RK73GB2A473J	CHIP R	47K J 1/10W
R30,31			RK73GB2A472J	CHIP R	4.7K J 1/10W
D26			MA3091-M	ZENER DIODE	
IC1			LC75808W	MOS-IC	
IC2			RS-171	ANALOGUE IC	
Q1			DTA114EUA	DIGITAL TRANSISTOR	
Q1			KRA302	DIGITAL TRANSISTOR	
Q3,4			2SD2114K	TRANSISTOR	
Q5			2SC4081	TRANSISTOR	
Q6			DTA114EUA	DIGITAL TRANSISTOR	
Q6			KRA302	DIGITAL TRANSISTOR	
Q7			2SC4081	TRANSISTOR	

**DAUGHTER UNIT (X89-25XX-XX)**

CN1		E41-0169-05	SOCKET FOR PIN ASSY	
J1		E58-0865-05	RECTANGULAR RECEPTACLE	
S1		S70-0877-05	TACT SWITCH	

**CASSETTE MECHANISM ASSY (D40-1150-05)**

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	
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	

Ref.No.	A d d d w	N e e e w	Parts No.	Description	Dest inati on
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		
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		
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)		

M: KRC-765 E: KRC-691Y  
 E1: KRC-691

▲ indicates safety critical components.

# KRC-765/691/691Y

## SPECIFICATIONS

### ● KRC-765

#### FM Section

Frequency Range	
(50kHz) .....	87.5MHz-108.0MHz
(200kHz) .....	87.9MHz-107.9MHz
Channel Space Selection .....	50k/200kHz
Usable Sensitivity (S/N:30dB) .....	9.3dBf (0.8μV/75Ω)
Quieting Sensitivity (S/N:50dB) .....	15.2dBf (1.6μV/75Ω)
Frequency Response (±3.0dB) .....	30Hz-15kHz
S/N .....	70dB (MONO)
Selectivity .....	≥ 80dB (±400kHz)
Stereo Separation .....	40dB (1kHz)

#### AM Section

Frequency Range	
(9kHz) .....	531kHz-1611kHz
(10kHz) .....	530kHz-1700kHz
Channel Space Selection .....	9k/10kHz
Usable Sensitivity (S/N:20dB) .....	28dBμ (25μV)

#### CASSETTE Section

Tape Speed .....	4.76cm/sec.
Wow/Flutter (WRMS) .....	0.08%
Frequency Response (±3.0dB) .....	30-18kHz (70μs)
Separation .....	43dB (1kHz)
S/N (dB)	
Dolby NR OFF .....	57dB
Dolby BNR ON .....	65dB

#### AMPLIFIER Section

Preout Level/Load .....	1800mV/10kΩ
Preout Impedance .....	≤ 600Ω
Maximum Power .....	47W×4
Full Bandwidth Power .....	22W×4
(at less than 1%THD)	

#### TONE Section

Bass .....	100Hz±10dB
Middle .....	1kHz±10dB
Treble .....	10kHz±10dB

#### General

Operating Voltage .....	14.4V
(11V-16V allowable)	
Current Consumption .....	10A
Installation Size (W) .....	182mm
(H) .....	53mm
(D) .....	150mm
Weight .....	1.20kg

### ● KRC-691/691Y

#### FM Section

Frequency Range .....	87.5MHz-108.0MHz
(Frequency Step) .....	(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 (AM) Section

Frequency Range .....	531kHz-1611kHz
(Frequency Step) .....	(9kHz)
Usable Sensitivity (S/N:20dB) .....	25μV

#### LW Section

Frequency Range .....	153kHz-281kHz
Usable Sensitivity(S/N:20dB) .....	45μV

#### CASSETTE Section

Tape Speed .....	4.76cm/sec.
Wow/Flutter (WRMS) .....	0.08%
Frequency Response (±3.0dB) .....	30-18kHz (70μs)
Separation .....	43dB (1kHz)
S/N (dB)	
Dolby NR OFF .....	57dB
Dolby BNR ON .....	65dB

#### AMPLIFIER Section

Preout Level/Load .....	1800mV/10kΩ
Preout Impedance .....	≤ 600Ω
Maximum Power .....	47W×4
Power DIN45324, +B=14.4V .....	29W×4

#### TONE Section

Bass .....	100Hz±10dB
Middle .....	1kHz±10dB
Treble .....	10kHz±10dB

#### General

Operating Voltage .....	14.4V
(11V-16V allowable)	
Current Consumption .....	10A
Installation Size (W) .....	182mm
(H) .....	53mm
(D) .....	150mm
Weight .....	1.20kg

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