

CASSETTE RECEIVER

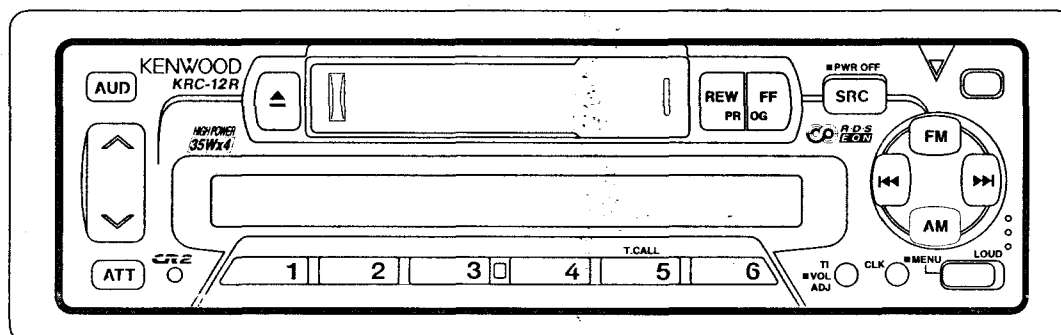
KRC-12RG KRC-177RA/RG

SERVICE MANUAL

KENWOOD

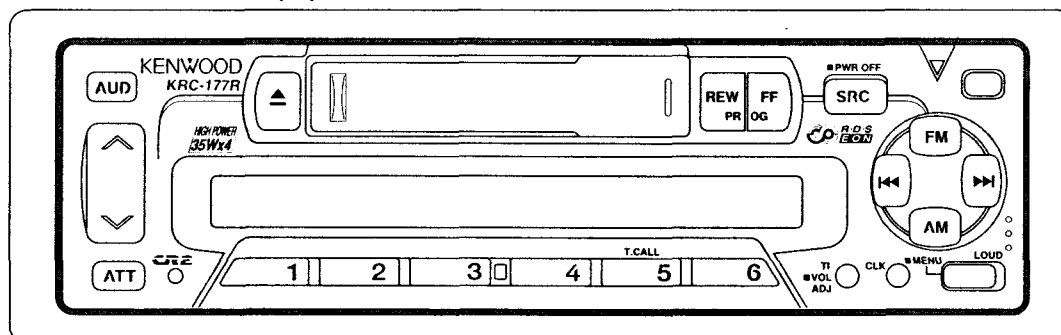
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B51-7443-00 (K) 1781

KRC-12RG (E)

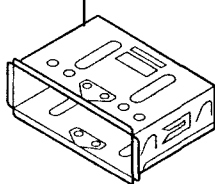


KRC-177RA (E)

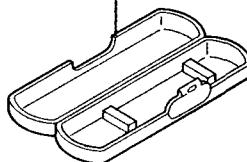
KRC-177RG (E)



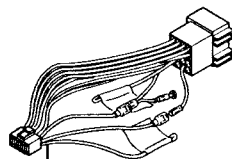
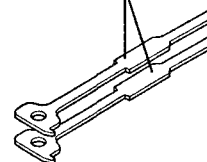
MOUNTING HARDWARE ASSY
(J21-7881-03)



PLASTIC CABINET ASSY
(A02-1486-03)



LEVER
(D10-3031-04)x2



DC CORD
(E30-xxxx-xx)
Refer to the parts list.



ANTENNA ADAPTOR
(T90-0523-05)

KRC-12RG,177RA/RG

CONTENTS/BLOCK DIAGRAM

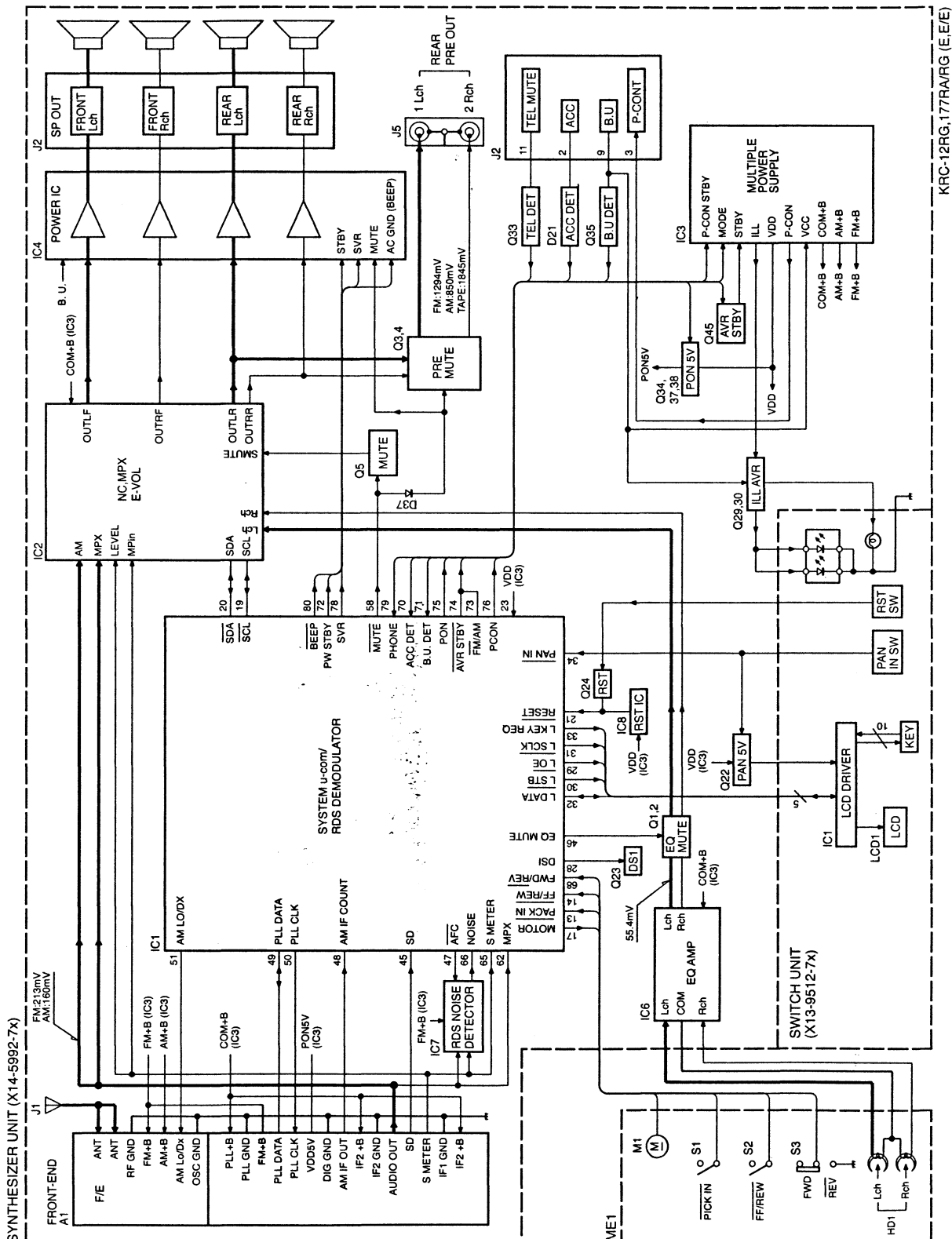
CONTENTS

CONTENTS / BLOCK DIAGRAM.....	2
CIRCUIT DESCRIPTION.....	3
TADJUSTMENT/EINSTELLUNGEN (MECHA.).....	5
PC BOARD.....	6
SCHEMATIC DIAGRAM.....	9

EXPLODED VIEW

MECHANISM.....	14
UNIT.....	15
PARTS LIST.....	17
PARTS DESCRIPTIONS.....	21
SPECIFICATIONS.....	Back cover

BLOCK DIAGRAM



KRC-12RG,177RA/RG

CIRCUIT DESCRIPTION

(X14-) IC1 : SYSTEM u-COM

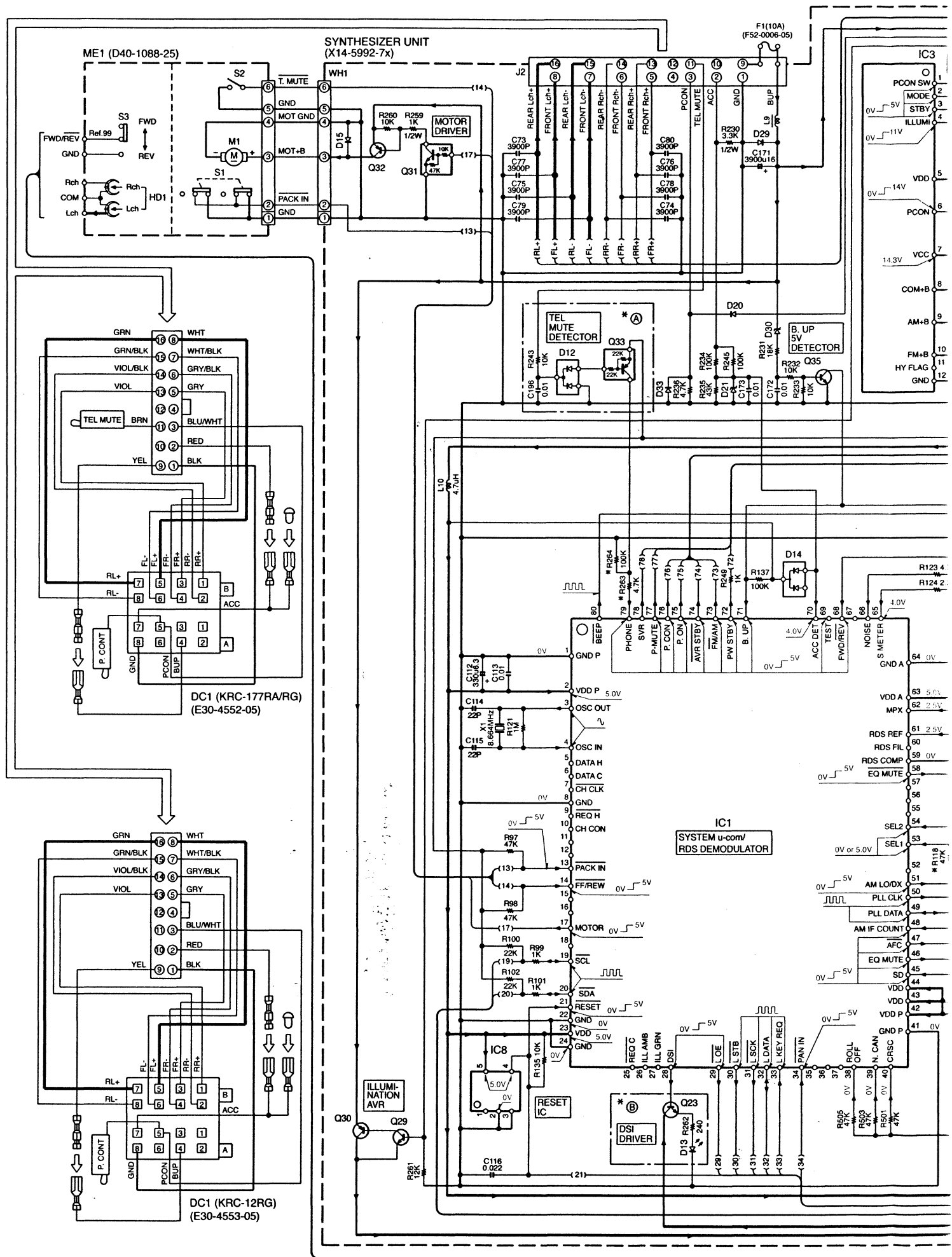
PORT No.	PORT NAME	I/O	MODE	FUNCTION
1	GND P	-	-	GND
2	VDD P	-	-	VDD
3	OSC OUT	O	-	Oscillation out
4	OSC IN	I	-	Oscillation in
5-7	-	-	-	-
8	GND	-	-	GND
9-12	-	-	-	-
13	$\overline{\text{PACK IN}}$	I	Tape	Pack-in detection
14	$\overline{\text{FF/REW}}$	I	Tape	FF/REW detection
15,16	-	-	-	-
17	MOTOR	O	Tape	Main motor ON/OFF
18	-	-	-	-
19	$\overline{\text{SCL}}$	I/O	Audio	Audio BUS clock
20	$\overline{\text{SDA}}$	I/O	Audio	Audio BUS data
21	$\overline{\text{RESET}}$	I	-	Reset
22	GND	-	-	GND
23	VDD	-	-	VDD
24	GND	-	-	GND
25-27	-	-	-	-
28	DSI	O	DSI	DSI ON/OFF
29	$\overline{\text{L OE}}$	O	LCD driver	Output enable
30	$\overline{\text{L STB}}$	O	LCD driver	Data latch
31	$\overline{\text{L SCK}}$	O	LCD driver	Serial clock
32	L DATA	I/O	LCD driver	Serial data
33	L KEY REQ	I	LCD driver	Key-in request detection
34	$\overline{\text{PAN IN}}$	I	Panel	Panel ON/OFF detection
35-37	-	-	-	-
38	ROLL OFF	I	Initial set up	Tuner audio roll-off
39	N. CAN	I	Initial set up	Tuner audio noise cancellor
40	CRSC	I	Initial set up	Tuner audio CRSC

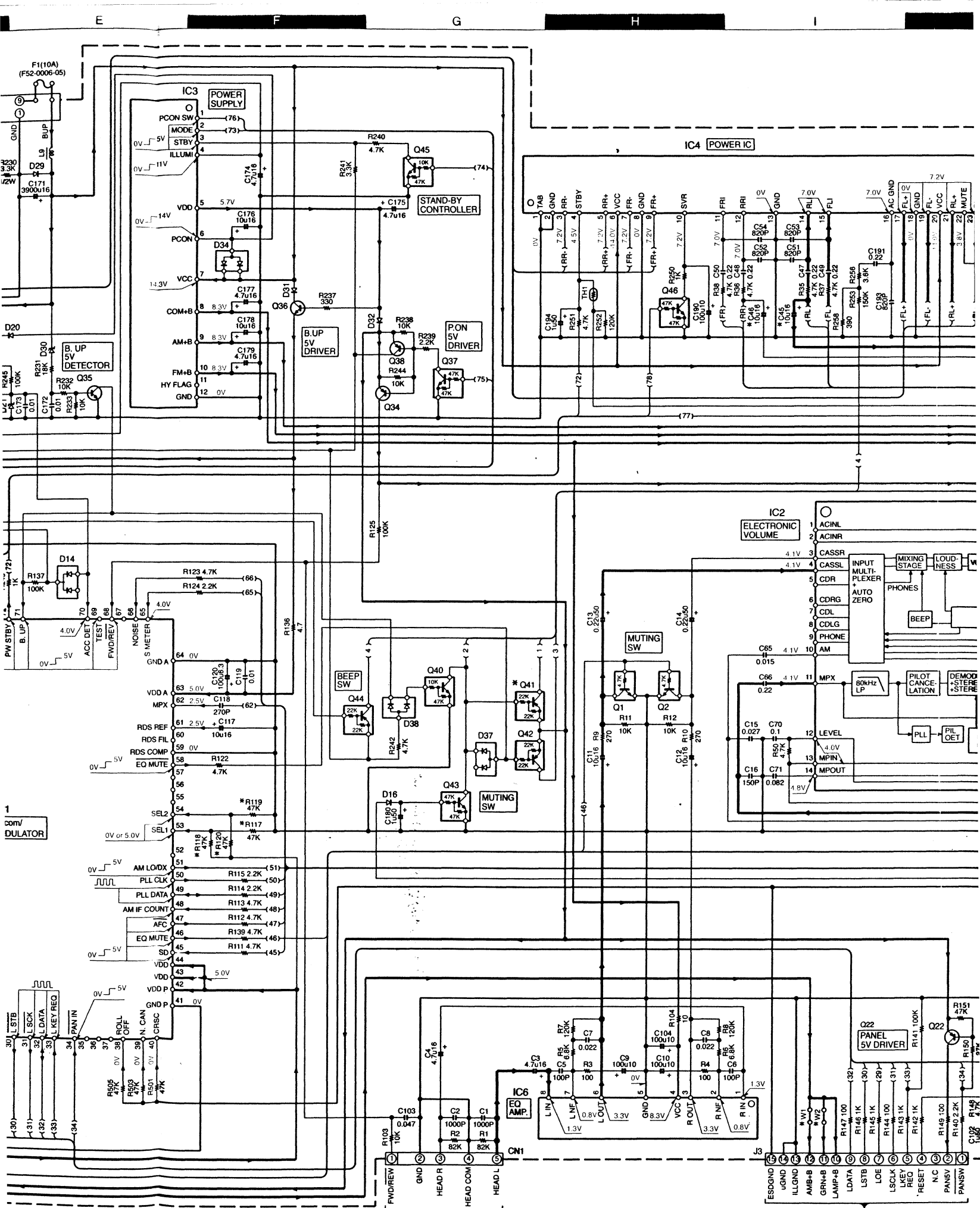
KRC-12RG,177RA/RG

CIRCUIT DESCRIPTION

(X14-) IC1 : SYSTEM u-COM

PORT No.	PORT NAME	I/O	MODE	FUNCTION
41	GND P	-	-	GND
42	VDD P	-	-	VDD
43	VDD	I	-	VDD
44	VDD	I	-	VDD
45	SD	I	Tuner	Station signal detection
46	EQ MUTE	O	Tape	Equalizer mute ON/OFF
47	AFC	O	Tuner	Fast tuning ON/OFF
48	AM IF COUNT	I	Tuner	AM IF count detection
49	PLL DATA	I/O	Tuner	Tuner data
50	PLL CLK	O	Tuner	Tuner clock
51	AM LO/DX	O	Tuner	AM Local seek ON/OFF
52	-	-	-	-
53	SEL 1	I	Initial set up	Model discrimination
54	SEL 2	I	Initial set up	Model discrimination
55-57	-	-	-	-
58	EQ MUTE	O	Audio	Audio mute ON/OFF
59	RDS COMP	-	RDS	GND
60	-	-	-	-
61	RDS REF	I	RDS	Reference
62	MPX	I	RDS	Multiplex
63	VDD A	-	-	Analogue VDD
64	GND A	-	-	Analogue GND
65	S-METER	I	Tuner	Signal meter detection
66	NOISE	I	Tuner	FM noise detection
67	-	-	-	-
68	FWD/REW	I	Tape	FWD/REV detection
69	TEST	-	-	Test mode
70	ACC DET	I	Power supply	ACC detection
71	B. UP	I	Power supply	Back-up detection
72	PW STBY	O	Power IC	Power stand-by ON/OFF
73	FM/AM	O	Tuner	FM/AM switching
74	AVR STBY	O	Power IC	AVR stand-by ON/OFF
75	P. ON	O	Power control	Inner power ON/OFF
76	P. CON	O	Power control	External power ON/OFF
77	P MUTE	O	Power IC	Power mute ON/OFF
78	SVR	O	Power IC	Quick power cut ON/OFF
79	PHONE	I	Phone	Telephone call detection
80	BEEP	O	Beep	Beep clock out





KRC-12RG,177RA/RG

KENWOOD

T

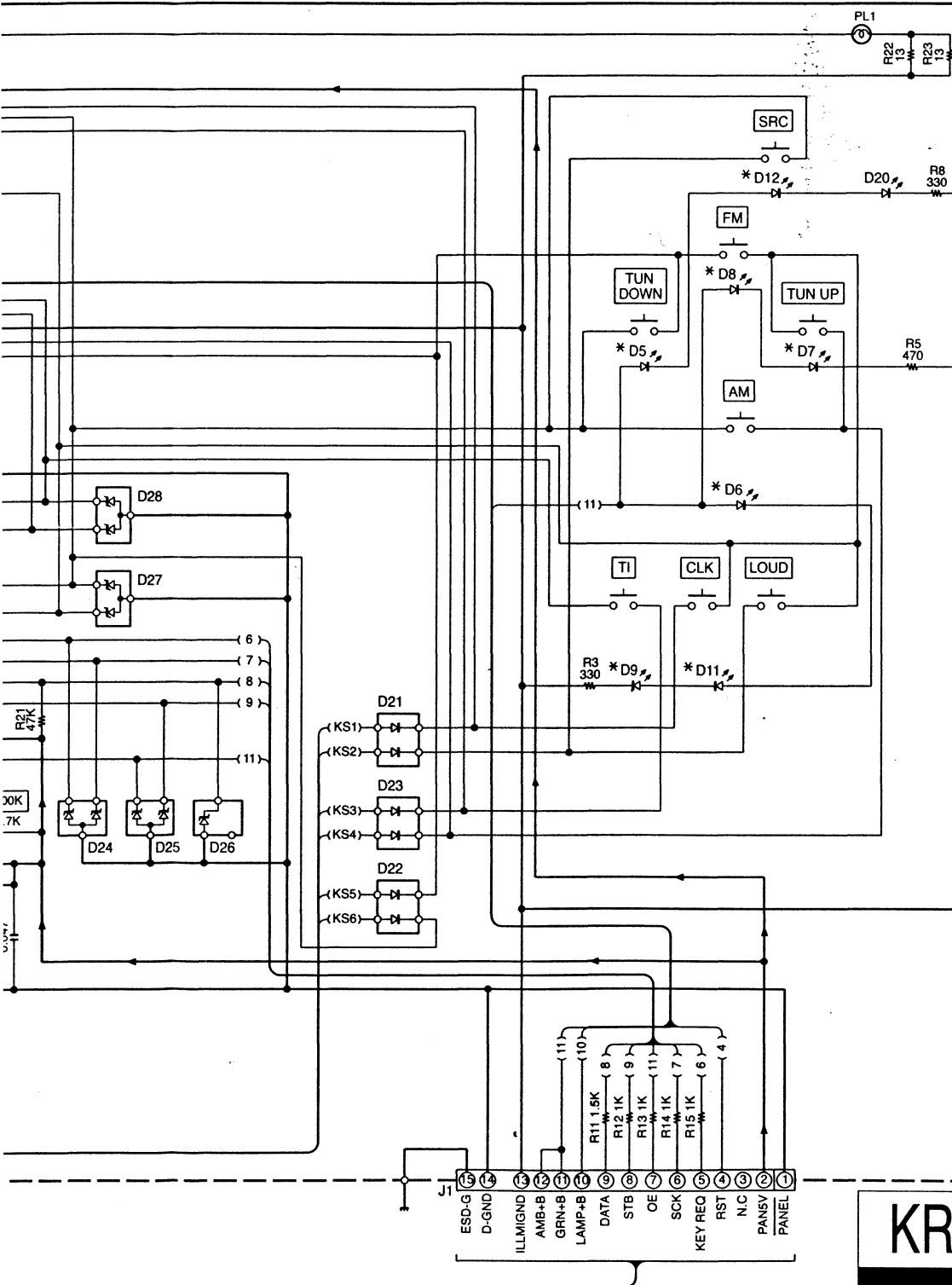
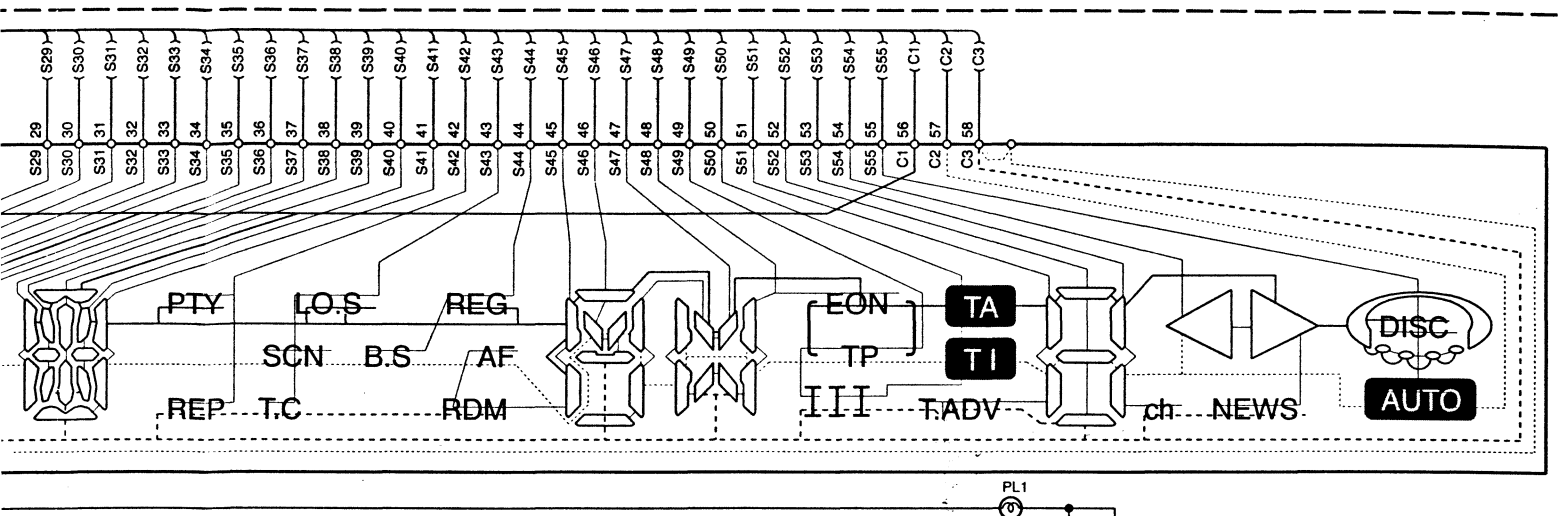
U

V

W

X

Y



(X13-951x-xx)

MODEL NAME	UNIT No.	D1-9,11,12,14-19
KRC-177RA	2-70	B30-1517-05
KRC-177RG	2-71	B30-1509-05
KRC-12RG		

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.

IC1 : UPD16431A

D1-9,11,12,14-19 : *

D20 : B30-1511-05

D21-23 : DA227

D24,25,27,28 : MA3062WA

D26 : MA3062-M

LCD1 : B38-0693-05

— GND LINE
— +B LINE

KRC-12RG,177RA/RG (E,E/E)
(2/2)

KRC-12RG,177RA/RG

KENWOOD

SWITCH UNIT (X13-9512-7x)

1

2

3

4

5

6

7

X14-J3

1/2

A

