

CD RECEIVER

KDC-1028/128/128CR/128/L4 /129/129S/229 KDC-2031SA/SAY/SG/SGY SERVICE MANUAL

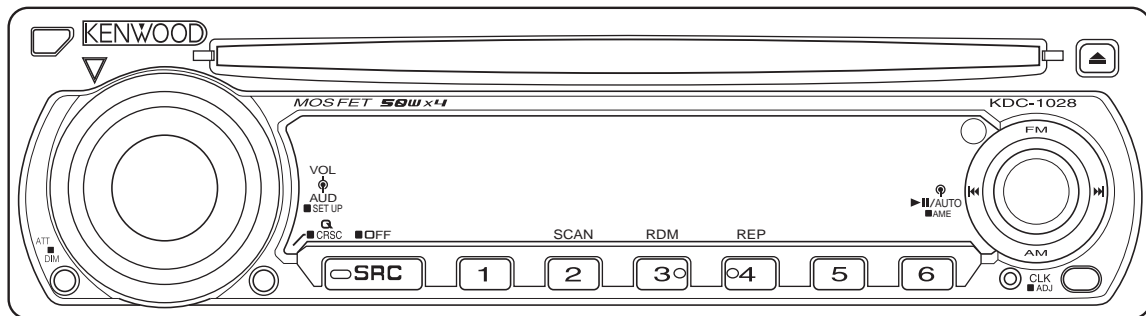
KENWOOD

Kenwood Corporation

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SWITCH UNIT (X16) TYPE 2

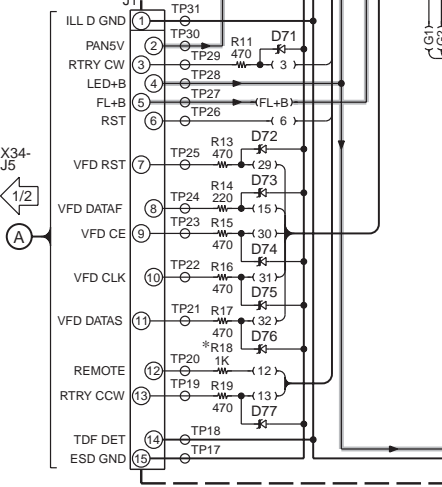
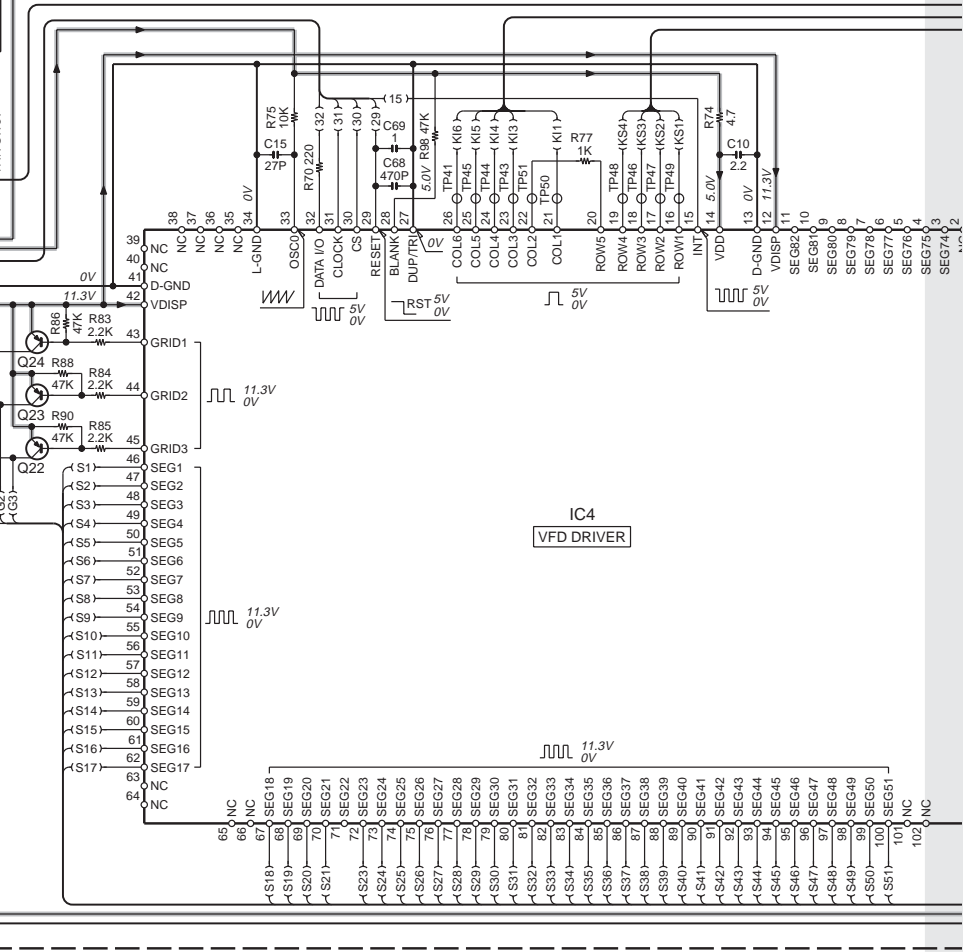
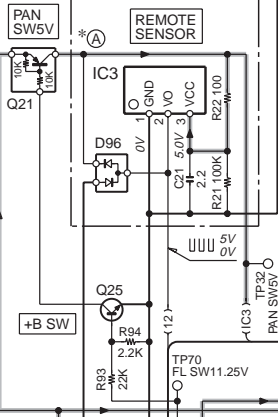
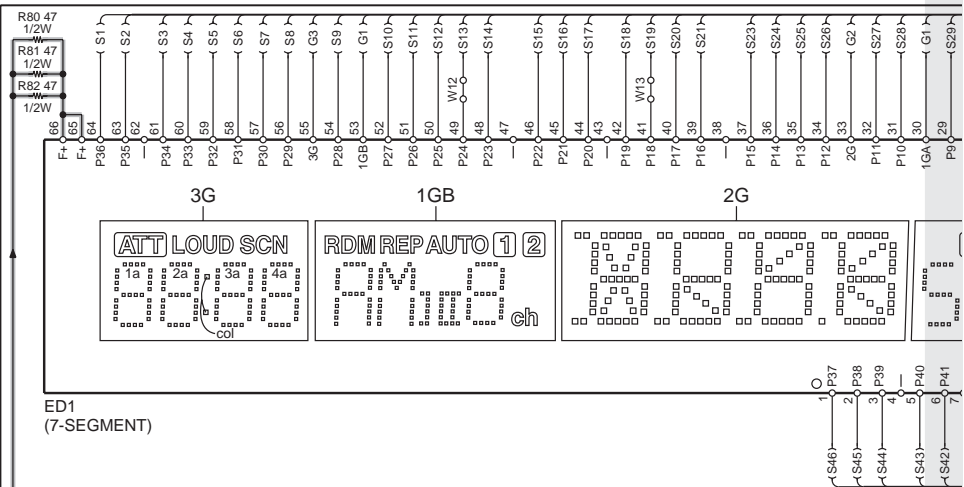
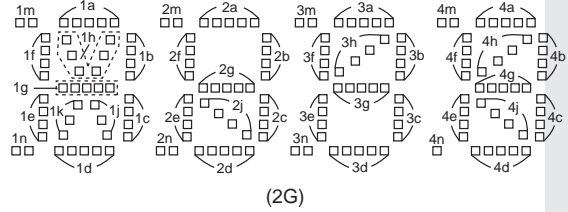
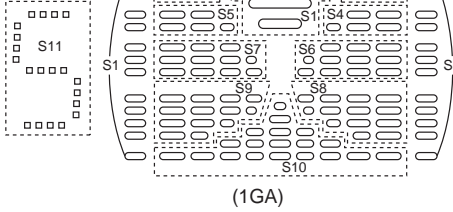
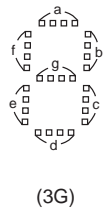
Illustration is KDC-1028

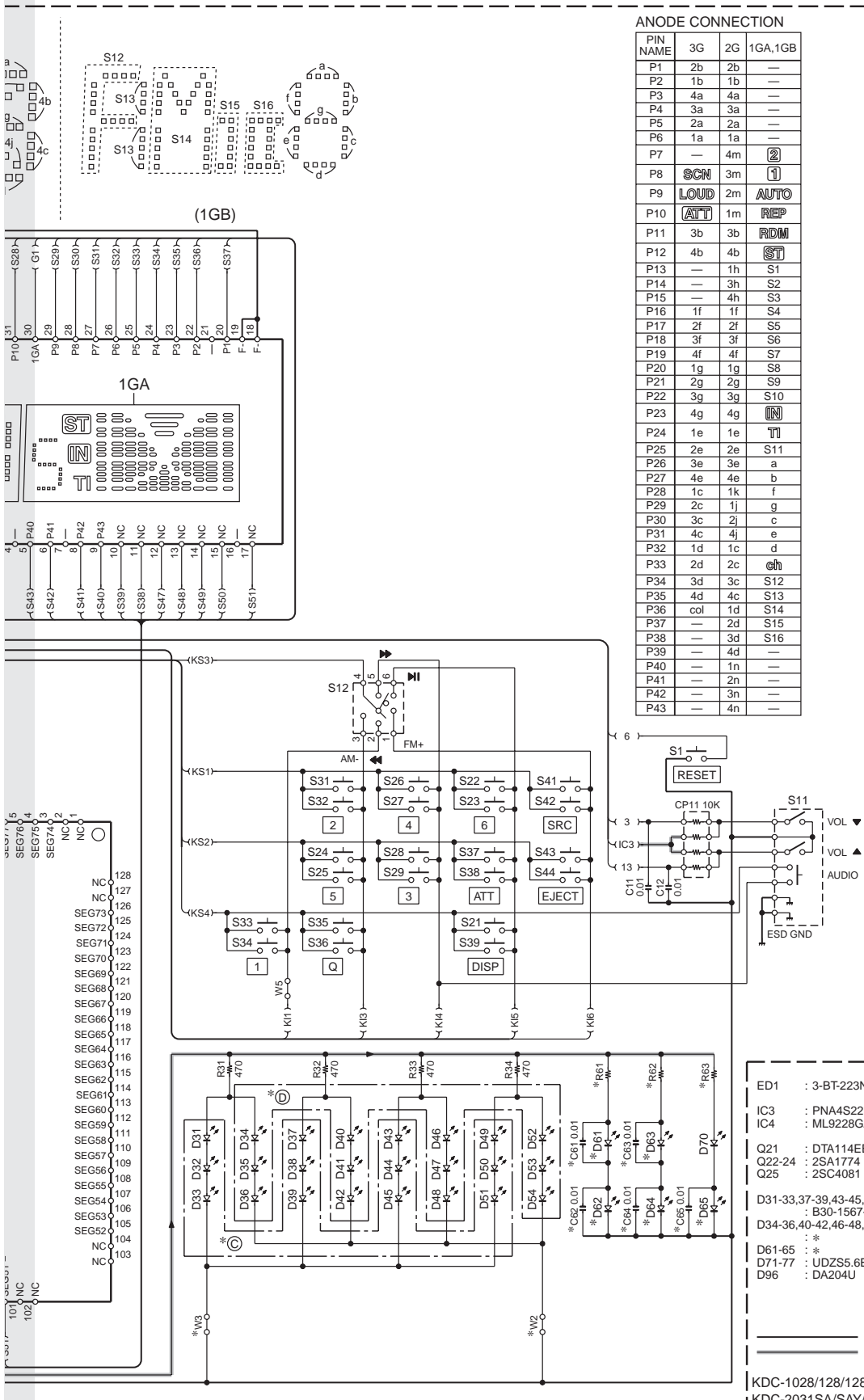


This service manual handles only switch unit (X16) for type 2.
Besides, please refer to the service manual of each model.
Switch unit (X16) has been changed from the following serial number to type 2.
Following system microcomputer (IC1:X34) also changes at the same time as changing switch unit (X16).

MODEL	SERIAL No.	SWITCH UNIT (TYPE2 UNIT)	ELECTRIC UNIT	MCU IC (IC1:X34)	TDF NAME	TDF PANEL No.
KDC-1028	50106801~	X16-3270-10	X34-3410-11	784225GC283A	TDF-51DB/O	Y33-2260-63
KDC-128	50200001~	X16-3270-10	X34-3410-12	784225GC283A	TDF-51D/O	Y33-2260-64
KDC-128CR	50200501~	X16-3270-10	X34-3410-12	784225GC283A	TDF-51DCR/O	Y33-2260-65
KDC-128/L4	50200001~	X16-3272-71	X34-3410-12	784225GC283A	TDF-128/L4O	Y33-2260-11
KDC-229	50200001~	X16-3270-21	X34-3650-24	784225GC283A	TDF-229/O	Y33-2270-65
KDC-129	50200001~	X16-3270-21	X34-3650-25	784225GC283A	TDF-229/O	Y33-2270-65
KDC-129S	50200001~	X16-3270-21	X34-3650-25	784225GC283A	TDF-129S/O	Y33-2270-66
KDC-2031SA	T0100401~	X16-3272-71	X34-3412-75	784225GC283A	TDF-2031SA/O	Y33-2280-66
KDC-2031SAY	T0200001~	X16-3272-71	X34-3412-75	784225GC283A	TDF-2031SA/O	Y33-2280-66
KDC-2031SG	T0100101~	X16-3270-21	X34-3412-76	784225GC283A	TDF-2031SG/O	Y33-2280-67
KDC-2031SGY	T0200001~	X16-3270-21	X34-3412-76	784225GC283A	TDF-2031SG/O	Y33-2280-67

(X16-3xxx-xx)





ANODE CONNECTION

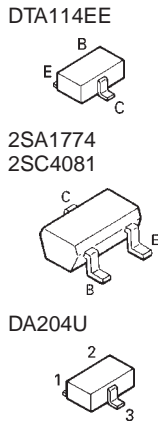
PIN NAME	3G	2G	1GA,1GB
P1	2b	2b	—
P2	1b	1b	—
P3	4a	4a	—
P4	3a	3a	—
P5	2a	2a	—
P6	1a	1a	—
P7	—	4m	②
P8	SCN	3m	①
P9	LOUD	2m	AUTO
P10	ATT	1m	REP
P11	3b	3b	RDM
P12	4b	4b	ST
P13	—	1h	S1
P14	—	3h	S2
P15	—	4h	S3
P16	1f	1f	S4
P17	2f	2f	S5
P18	3f	3f	S6
P19	4f	4f	S7
P20	1g	1g	S8
P21	2g	2g	S9
P22	3g	3g	S10
P23	4g	4g	③
P24	1e	1e	T1
P25	2e	2e	S11
P26	3e	3e	a
P27	4e	4e	b
P28	1c	1k	f
P29	2c	1j	g
P30	3c	2j	c
P31	4c	4j	e
P32	1d	1c	d
P33	2d	2c	④
P34	3d	3c	S12
P35	4d	4c	S13
P36	col	1d	S14
P37	—	2d	S15
P38	—	3d	S16
P39	—	4d	—
P40	—	1n	—
P41	—	2n	—
P42	—	3n	—
P43	—	4n	—

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
 ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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

MODEL NAME	UNIT No.	CR1-65	D61-65	R18	R61	R62	R63	W2	W3
KDC-1028	X16-3270-10	YES	YES	—	—	—	—	—	—
KDC-128CR	X16-3290-10	—	—	—	—	—	—	—	—
KDC-229	X16-3270-21	—	—	—	—	—	—	—	—
KDC-129S	X16-3290-21	—	—	—	—	—	—	—	—
KDC-2031SG/SGY	X16-3312-13	—	—	—	—	—	—	—	—
KDC-128L4	X16-3272-71	—	—	—	—	—	—	—	—
KDC-2031SA/SAY	X16-3292-71	—	—	—	—	—	—	—	—
E202	X16-3270-01	—	—	—	—	—	—	—	—
RDF101	X16-3270-02	—	—	—	—	—	—	—	—

- ED1 : 3-BT-223N
- IC3 : PNA4S22M
- IC4 : ML9228GAZ-A
- Q21 : DTA114EE
- Q22-24 : 2SA1774
- Q25 : 2SC4081
- D31-33,37-39,43-45,49-51,70 : B30-1567-05 (COLOR:RED)
- D34-36,40-42,46-48,52-54 : *
- D61-65 : *
- D71-77 : UDZS5.6B
- D96 : DA204U



KDC-1028/128/128CR/128/L4/129/129S/229
KDC-2031SA/SAY/SG/SGY(OKI) (2/2)

PARTS LIST

* New parts

Parts without **Parts 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.	Add	New	Parts No.	Description	Destination
SWITCH UNIT (X16-327x-xx)					
D31-33			B30-1567-05	LED (1608, RED)	KE1
D34-36			B30-1533-05	LED (1608, PG)	M1
D37-39			B30-1567-05	LED (1608, RED)	KE1
D40-42			B30-1533-05	LED (1608, PG)	M1
D43-45			B30-1567-05	LED (1608, RED)	KE1
D46-48			B30-1533-05	LED (1608, PG)	M1
D49-51			B30-1567-05	LED (1608, RED)	KE1
D52-54			B30-1533-05	LED (1608, PG)	M1
D61-65			B30-1533-05	LED (1608, PG)	M1
D61-65			B30-1567-05	LED (1608, RED)	KE1
D70			B30-1567-05	LED (1608, RED)	
C10			CK73GB0J225K	CHIP C 2.2UF K	
C11,12			CK73GB1H103K	CHIP C 0.010UF K	
C15			CC73GCH1H270J	CHIP C 27PF J	
C21			CK73FB1A225K	CHIP C 2.2UF K	K
C68			CK73GB1H471K	CHIP C 470PF K	
C69			CK73FB1C105K	CHIP C 1.0UF K	
J1			E59-0840-05	RECTANGULAR PLUG (15PIN)	
CP11			RK74HB1J103J	CHIP-COM 10K J 1/16W	
R11			RK73GB2A471J	CHIP R 470 J 1/10W	
R13			RK73GB2A471J	CHIP R 470 J 1/10W	
R14			RK73GB2A221J	CHIP R 220 J 1/10W	
R15-17			RK73GB2A471J	CHIP R 470 J 1/10W	
R18			RK73GB2A102J	CHIP R 1.0K J 1/10W	K
R19			RK73GB2A471J	CHIP R 470 J 1/10W	
R21			RK73GB2A104J	CHIP R 100K J 1/10W	K
R22			RK73GB2A101J	CHIP R 100 J 1/10W	K
R31-34			RK73FB2B471J	CHIP R 470 J 1/8W	
R61			RK73EB2E102J	CHIP R 1.0K J 1/4W	KE1
R61			RK73EB2E621J	CHIP R 620 J 1/4W	M1
R62,63			RK73EB2E561J	CHIP R 560 J 1/4W	M1
R62,63			RK73EB2E681J	CHIP R 680 J 1/4W	KE1
R70			RK73GB2A221J	CHIP R 220 J 1/10W	
R74			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R75			RK73GB2A103J	CHIP R 10K J 1/10W	
R77			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R80-82			R92-1245-05	CHIP R 47 J 1/2W	
R83-85			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R86-91			RK73GB2A473J	CHIP R 47K J 1/10W	
R93			RK73GB2A223J	CHIP R 22K J 1/10W	
R94			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R98			RK73GB2A473J	CHIP R 47K J 1/10W	
W2			R92-1252-05	CHIP R 0 OHM J 1/16W	M1
W3			R92-1252-05	CHIP R 0 OHM J 1/16W	KE1
W5			R92-1252-05	CHIP R 0 OHM J 1/16W	
W12,13			R92-1252-05	CHIP R 0 OHM J 1/16W	
S12			S70-0106-05	TACT SWITCH	
S11			T99-0457-15	ROTARY ENCODER	
D71-77			UDZS5.6B	ZENER DIODE	

Ref. No.	Add	New	Parts No.	Description	Destination
D96			DA204U	DIODE	K
ED1			3-BT-223N	FLUORESCENT INDICATOR TUBE	
IC3			PNA4S22M	ANALOGUE IC	K
IC4		*	ML9228GAZ-A	MOS-IC	
Q21			DTA114EE	DIGITAL TRANSISTOR	
Q22-24			2SA1774	TRANSISTOR	
Q25			2SC4081	TRANSISTOR	
ELECTRIC UNIT (X34-341x-xx/3650-2x)					
IC1		*	784225GC283A	MCU IC	

K : KDC-1028, KDC-128, KDC128CR

M1 : KDC-129, KDC-129S, KDC-229

E1 : KDC-128/L4, KDC-2031SA, KDC-2031SAY, KDC-2031SG, KDC-2031SGY

△ Indicates safety critical components.

KDC-1028/128/128CR/128/L4/129/129S/229
KDC-2031SA/SAY/SG/SGY

MEMO

