

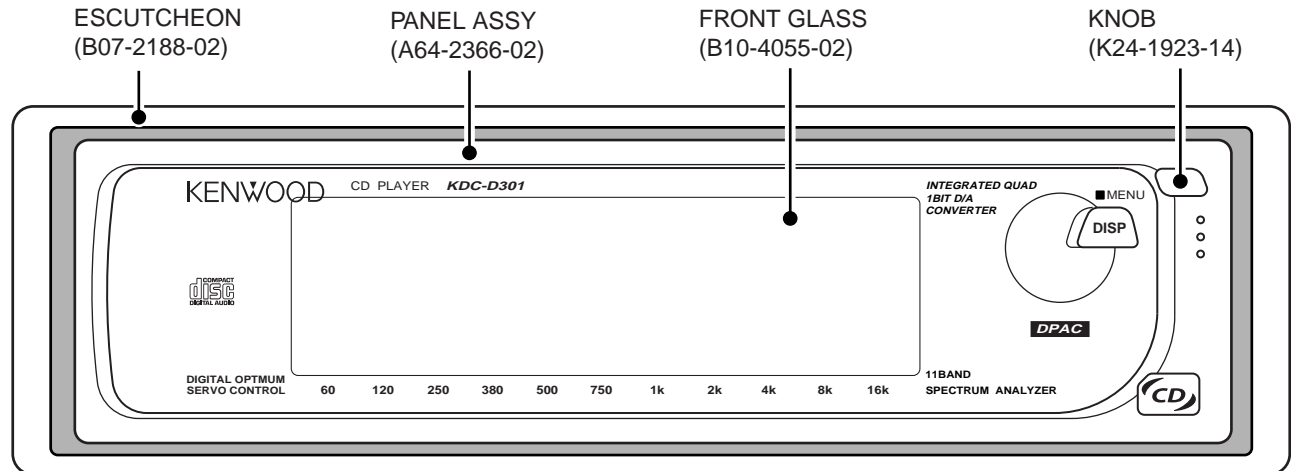
CD PLAYER

KDC-D301

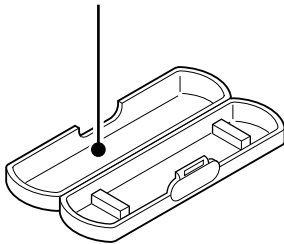
SERVICE MANUAL

KENWOOD

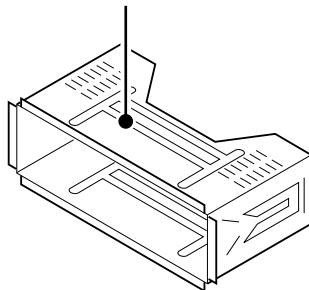
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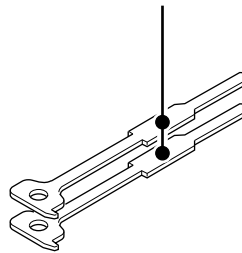
PLASTIC CABINET ASSY (A02-1486-13)



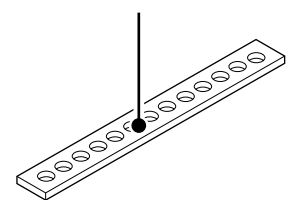
MOUNTING HARDWARE ASSY (J21-9491-13)



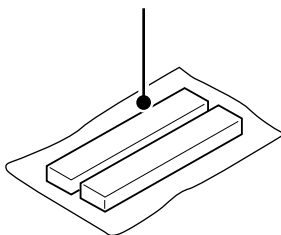
LEVER x 2 (D10-3031-04)



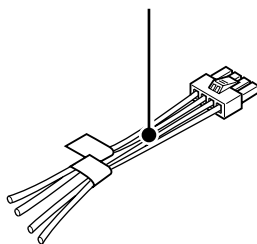
STAY (J54-0606-04)
: K TYPE ONLY



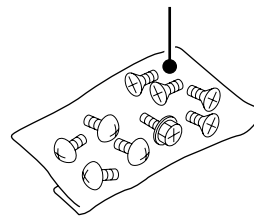
CUSHION (G11-1860-05)



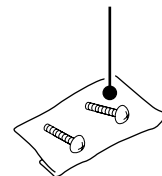
DC CORD (E30-4730-05)



SCREW SET (N99-1632-05)
: K TYPE ONLY



SCREW SET (N99-1656-05)
: K TYPE ONLY



COMPONENT DESCRIPTION

● SWITCH UNIT(X16-110X-XX)

Ref.No.	Component Name	Application/Function	Operation/Condition/Compatibility
IC1	LC75823W	LCD driver	
Q1	2SC4081	Dimmer SW	When Q1's base goes "Hi", Dimmer LEDs are turned on.

● ELECTRIC UNIT(X25-8902-71)

Ref.No.	Component Name	Application/Function	Operation/Condition/Compatibility
IC1	UPD780058GC255	System MI-COM.	
IC2	S-80830ANNP	Reset IC	When BU 5V voltage is less than 3.0V, IC outputs "Lo".
IC5	NJM4565M-TE2	Isolation amp.	
IC6	NJM4565M-TE2	1/2 VCC & A.G.C.amp.	
IC7	BA3834F	BPF IC	
Q1	2SC4081	BU 5V AVR	While BACKUP is applied, AVR outputs +5V. Q1 and Q2 are inverted Darlington connection.
Q2	2SA1870 or 2SB1450		
Q3	2SC4081	Audio +B AVR	While Q3's base goes "Hi", AVR outputs +8.0V.
Q4	2SB1202		
Q5	2SC4081	Illumination +B AVR	While Q5's base goes "Hi", AVR outputs +10.5V.
Q6	2SB1202		
Q7	2SC4081	Servo +B AVR	While Q7's base goes "Hi", AVR outputs +8.0V.
Q8	2SB1202		
Q9	2SC4081	BU detection SW	While BACKUP is applied, a base goes "Hi", and Q12 is turned on. When momentary power down has detected, a base goes "Lo", and Q12 is turned off.
Q10	2SA1037K	Panel 5V SW	When a base goes "Lo" during panel closed, Q10 is turned on.
Q11	2SC4081	Guide or Eject illumination SW	When a base goes "Hi", Guide or Eject illumination LED is lighting-up.
Q12	DTA143EUA	Changer mute SW	When CHANGER MUTE REQUEST to H/U is worked, a base goes "Lo" and Q12 is turned on.
Q13	DTC144EUA or UN5213	Buzzer SW	When a base goes "Hi", Buzzer is turned on.
Q14	DTC343TK	Audio mute SW(L Ch)	When a base goes "Hi", Audio mute is activated.
Q15	DTC343TK	Audio mute SW(R Ch)	When a base goes "Hi", Audio mute is activated.
Q16	DTC144EUA or UN5213	Changer reset SW	When CHANGER RESET from H/U is worked, a base goes "Hi" and Q19 is turned on.
Q17	UMC2N	SW 14V	Audio +8V AVR, Illumination +B AVR, Servo +B AVR on/off control When a base goes "Hi", Q17 is turned on, and Each AVR are working.
Q18	DTC144EUA or UN5213	BU detection inverter	
Q19	UMC2N	SW 5V	CD MECHA. SW, BPF IC on/off control When a base goes "Lo", Q19 is turned on, and Each circuits are working.
Q20	UMC2N	Audio mute driver	When a base goes "Hi", Audio mute driver outputs "Hi".
Q21	2SD2114K	AGC	Signal level control
Q22	DTC144EUA or UN5213	Changer control SW	When CHANGER CONTROL from H/U goes "Hi", Q15 is turned on.
Q23	2SA1037K	LED +B SW	When Q23's base goes "Hi", BU 5V is supplied to the Switch Unit.
Q24	DTC144EUA or UN5213		

COMPONENT DESCRIPTION

● CD PLAYER UNIT(X32-5010-00)

Ref.No.	Component Name	Application/Function	Operation/Condition/Compatibility
IC1	AN22000AA	RF amplifier	Generation of RF signal based on the signals from the APC circuit and pickup, and generation of servo error(focusing error and tracking error)signals. Detection of dropout, anti-shock, track crossing and off-track conditions, Gain control function building in.
IC2	MN662774KG1	CD signal processor built-in MI-COM.	
IC4	BA5917AFP	4CH BTL driver	Focusing coil, tracking coil, spindle motor and sled motor driver
IC6	NJM4565MD	OP Amp.	Low pass filter
Q1	MCH6101	APC	LD power control
Q2	DTC124EUA	P ON SW	When CD source is selected, Q2's base goes "Hi", Q3 and Q4 are turned on.
Q3	DTA143XUA	A.8V SW	A8V ON/OFF control. When a base goes "Lo", Q3 is turned on.
Q4	2SA1362(Y)	D.5V SW	D5V ON/OFF control. When a base goes "Lo", Q4 is turned on.
Q5	DTC124EUA	MOTOR SW	When CD loading or eject operation is activating, Q5's base goes "Hi", Q4 is turned on.

MICROCOMPUTER'S DESCRIPTION

IC1 (ELECTRIC UNIT: X25-8902-71)

● Terminal Description

Pin No.	Pin Name	I/O	Description	Processing Operation
1	EJECT	I	Eject key input	"Lo": Eject key pressed
2	REF CON	O	A/D converter reference voltage control output	"Hi": Reference voltage supplying
3	NC	O		Not used(N.C.)
4	AVSS	-	A/D, D/A converter ground connection terminal	Connected to ground lines.
5	NC	O		Not used(N.C.)
6	NC	O		Not used(N.C.)
7	AVREF1	-	D/A converter reference voltage input terminal	Connected to BU 5V lines.
8-10	NC	O		Not used(N.C.)
11	DATA H	I	Data input from H/U	
12	DATA C	O	Data output to H/U	
13	CH CLK	I/O	Clock input/output with H/U	New type: Input, Previous type: Output
14	REQ C	O	Communication request to H/U	"Lo": Communication request
15	NC	O		Not used(N.C.)
16	P KEY	I	Key data input from LCD driver IC	
17	L DATA	O	Data output to LCD driver IC	
18	L CLK	O	Clock output to LCD driver IC	
19	NC	O		Not used(N.C.)
20	NC	O		Not used(N.C.)
21	MSTOP	O	Stop request to CD mechanism MI-COM.	"Lo": Stop mode, "Hi": Operation mode
22	L INH	O	INH output to LCD driver IC	"Lo": Display lighting-up, "Hi": Display lighting -out
23	L CE	O	CE output to LCD IC	"Hi": Data communication
24	DIMMER	O	Dimmer output	"Lo": Dimmer mode, "Hi": Except dimmer mode
25	NC	O		Not used(N.C.)
26	BPF SEL	O	BPF IC control output	(SEL,A,B,C)=("Lo",X,X,X) GND (SEL,A,B,C)=("Hi","Lo","Lo","Lo") GND
27	BPF A	O	BPF IC band control output A	(SEL,A,B,C)=("Hi","Lo","Lo","Hi") 68Hz (SEL,A,B,C)=("Hi","Lo","Hi","Lo") 170Hz
28	BPF B	O	BPF IC band control output B	(SEL,A,B,C)=("Hi","Lo","Hi","Hi") 420Hz (SEL,A,B,C)=("Hi","Hi","Lo","Lo") 1kHz (SEL,A,B,C)=("Hi","Hi","Lo","Hi") 2.4kHz
29	BPF C	O	BPF IC band control output C	(SEL,A,B,C)=("Hi","Hi","Hi","Lo") 5.9kHz (SEL,A,B,C)=("Hi","Hi","Hi","Hi") 14.4kHz
30,31	NC	O		Not used(N.C.)
32	G ILLUMI	O	Disc indicator control output	"Hi": Indicator lighting-up, "Lo": Indicator lighting-out
33	VSS1	-	Ground connection terminal	Connected to ground lines.
34	TYPE1	I	Destination selection terminal	J type : Pull down to ground lines K,E type: Pull up to BU 5V lines
35	NC	O		Not used(N.C.)
36	SDA	I/O	Data input/output with CD mechanism MI-COM.	
37	SCL	I/O	Clock input/output with CD mechanism MI-COM.	
38	NC	O		Not used(N.C.)
39	CH MUTE	O	Audio mute request to H/U	"Lo": Mute request
40	MUTE	O	Audio mute control output	"Hi": Audio mute on, "Lo": Audio mute off
41	NC	O		Not used(N.C.)
42	PON	O	Peripheral circuits AVR control output	"Hi": A.+8V AVR, ILL +B AVR, SERVO +B AVR and BPF IC are turned on.
43	NC	O		Not used(N.C.)
44	BEEP	O	Beep output	
45	MRST	O	Reset output to CD mechanism MI-COM.	"Lo": CD mechanism MI-COM. reset
46	CD MUTE	I	Mute request input from CD mechanism MI-COM.	"Lo": Mute request
47	EJ BUP	I	OR input (EJECT key, B UP inverter signal)	
48	NC	O		Not used(N.C.)
49	MOTOR	O	CD mechanism loading motor control output	"Hi": CD loading/eject action or Break, "Lo": other
50	LOEJ	I/O	CD mechanism loading/Eject switching output	"Lo": Loading, "Hi": Eject, "Hi-Z": Stop or Break

MICROCOMPUTER'S DESCRIPTION

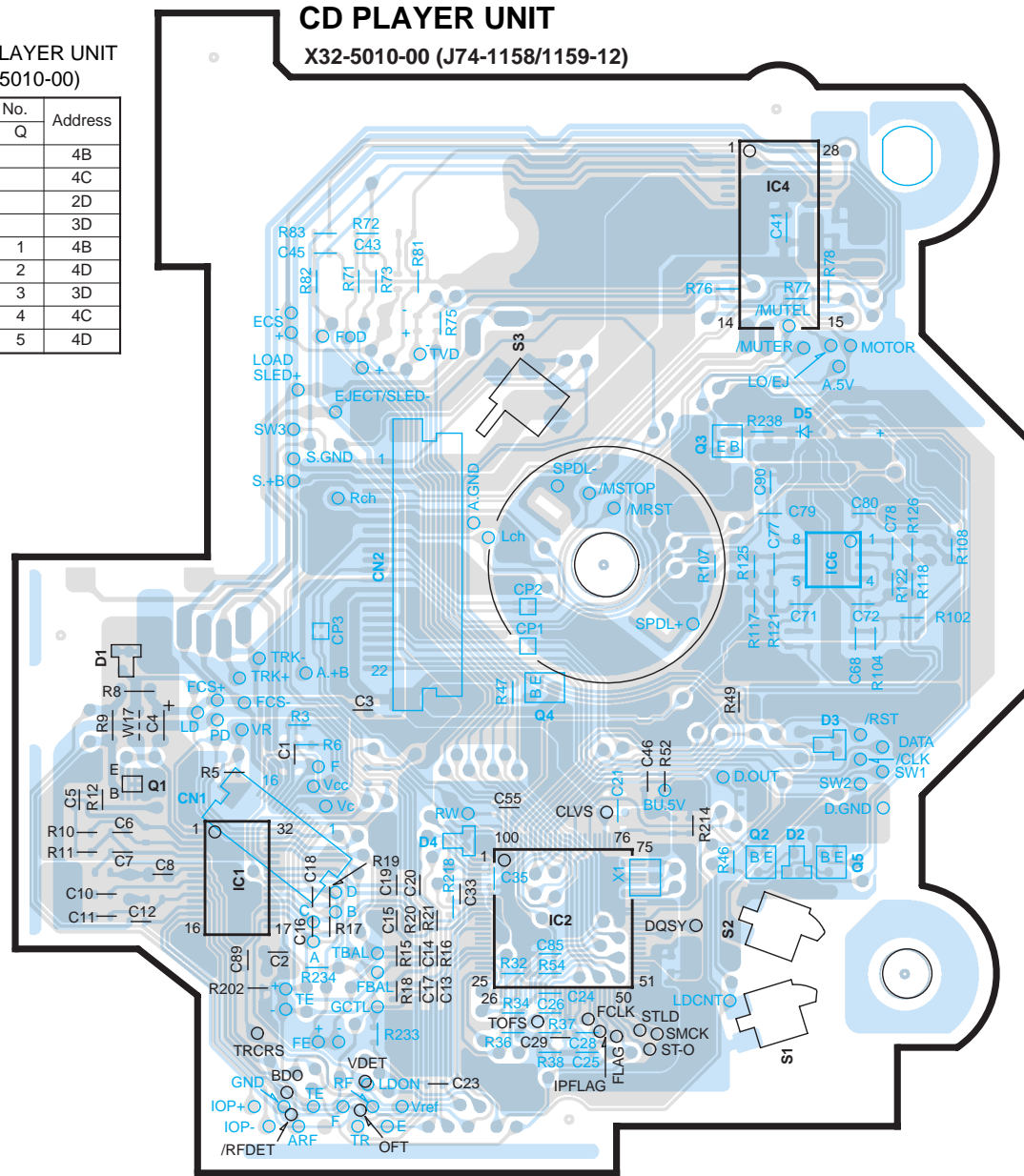
Pin No.	Pin Name	I/O	Description	Processing Operation
51-59	NC	O		Not used(N.C.)
60	RESET	I	Reset input	"Lo": System reset
61	REQH	I	Communication request from H/U	"Lo": Communication request
62	COMM SW	I	5-line communication previous/new switch input	"Lo": New type, "Hi": Previous type
63	SW2	I	12cm disc detection terminal(8cm/12cm)	When 12cm disc is detected, the input becomes "Lo" temporarily. (Watched in SW1 "Lo")
64	SW1	I	Loading detection (Loading start)	"Lo": Loading start
65	FLIP SW	I	Panel tilting detection input	"Hi": Panel tilted or detached, "Lo": Panel closed
66	CHCON	I	Changer control input from H/U	"Hi": Standby mode, "Lo": Operation mode
67	VSS0	-	Ground connection terminal	Connected to ground lines.
68	VDD1	-	Positive power supply connection terminal	Connected to BU 5V lines.
69	X2	-	Main clock resonator connection terminal	
70	X1	I	Main clock resonator connection terminal	
71	IC(VPP)	-		Not used(connected to ground lines)
72	XT2	-	Sub clock resonator connection terminal	Not used(N.C.)
73	XT1	I	Sub clock resonator connection terminal	Not used(connected to BU 5V lines)
74	VDD0	-	Positive power supply connection terminal	Connected to BU 5V lines.
75	AVREF0	I	A/D converter reference voltage input terminal	Connected to REF CON terminal
76	BPF IN	I	Level detection input from BPF IC out	
77	ILLUMI ON	O	ILL+B AVR control output	"Hi": AVR ON, "Lo": AVR OFF
78	NC	O		Not used(N.C.)
79	SW3	I	Down & limit switch detection input	"Hi": Chucking, "Lo": Pickup most inner position
80	B UP	I	Momentary power down detection input	"Hi" : When momentary power down detected or BU OFF "Lo" : BU ON

PC BOARD (Component Side View)

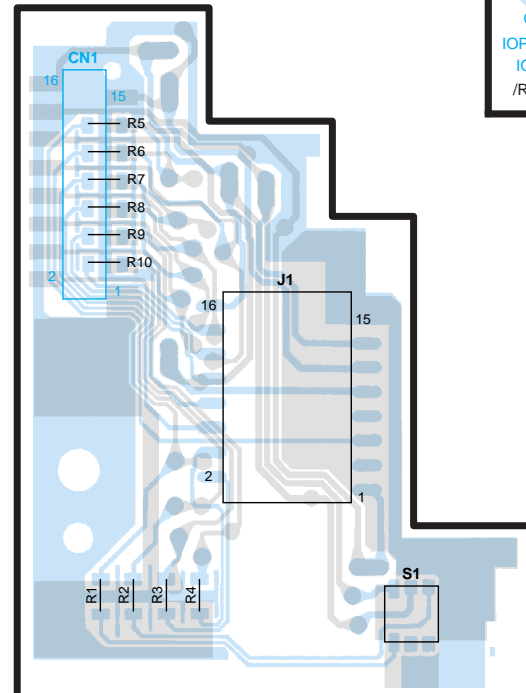
PC BOARD (Foil Side View)

CD PLAYER UNIT
X32-5010-00

Ref. No.	IC	Q	Address
1			4B
2			4C
4			2D
6			3D
1			4B
2			4D
3			3D
4			4C
5			4D



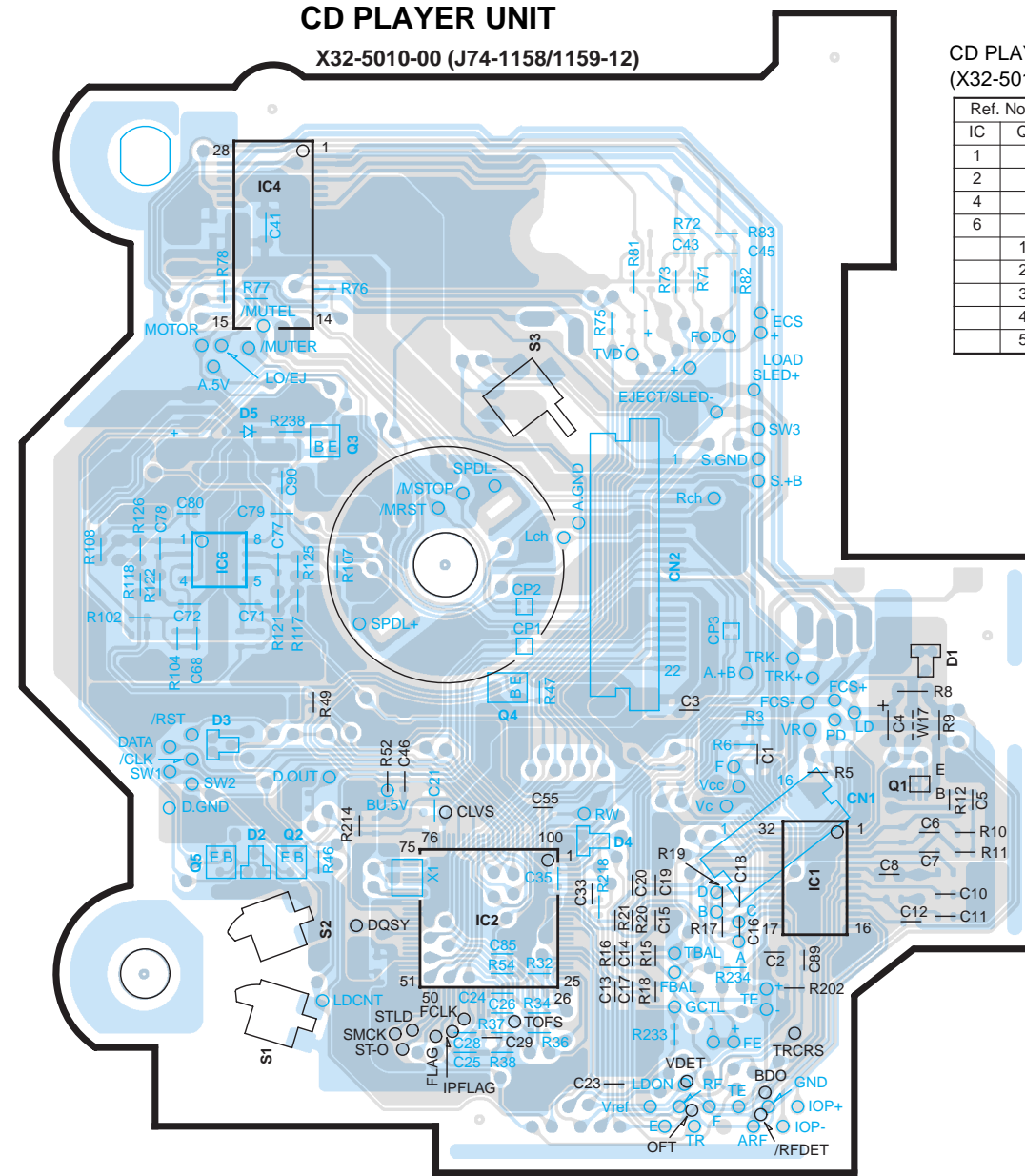
DAUGHTER UNIT
X89-2280-03
(J74-0720-22)



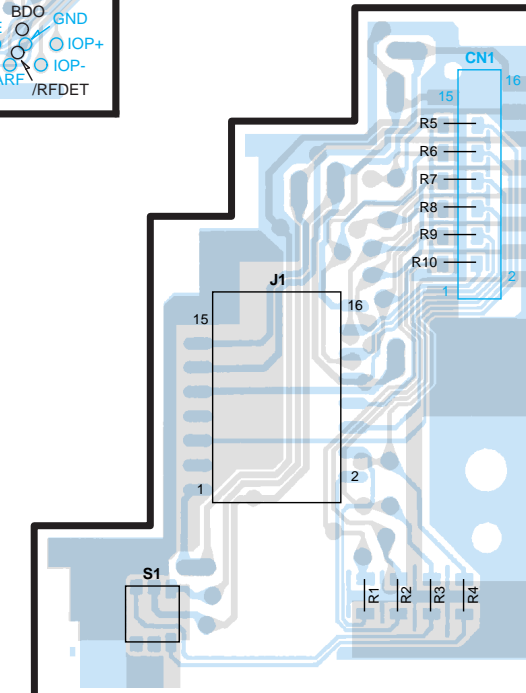
CD PLAYER UNIT
X32-5010-00 (J74-1158/1159-12)

CD PLAYER UNIT
X32-5010-00

Ref. No.	IC	Q	Address
1			4H
2			4G
4			2F
6			3F
1			4H
2			4F
3			3F
4			4G
5			4F



DAUGHTER UNIT
X89-2280-03
(J74-0720-22)

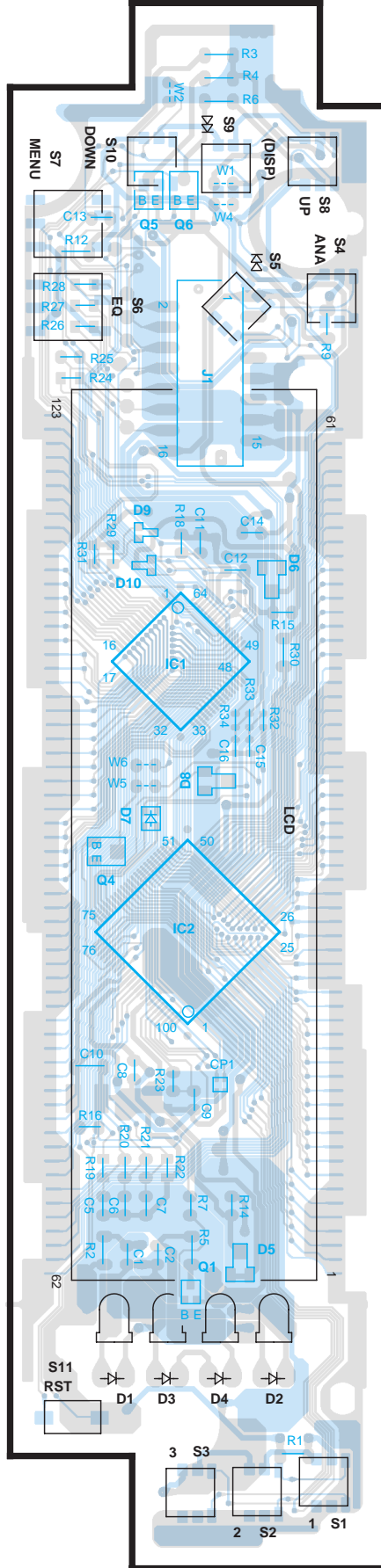


Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Foil Side View)

SWITCH UNIT

X16-110X-XX (J74-1260-12)

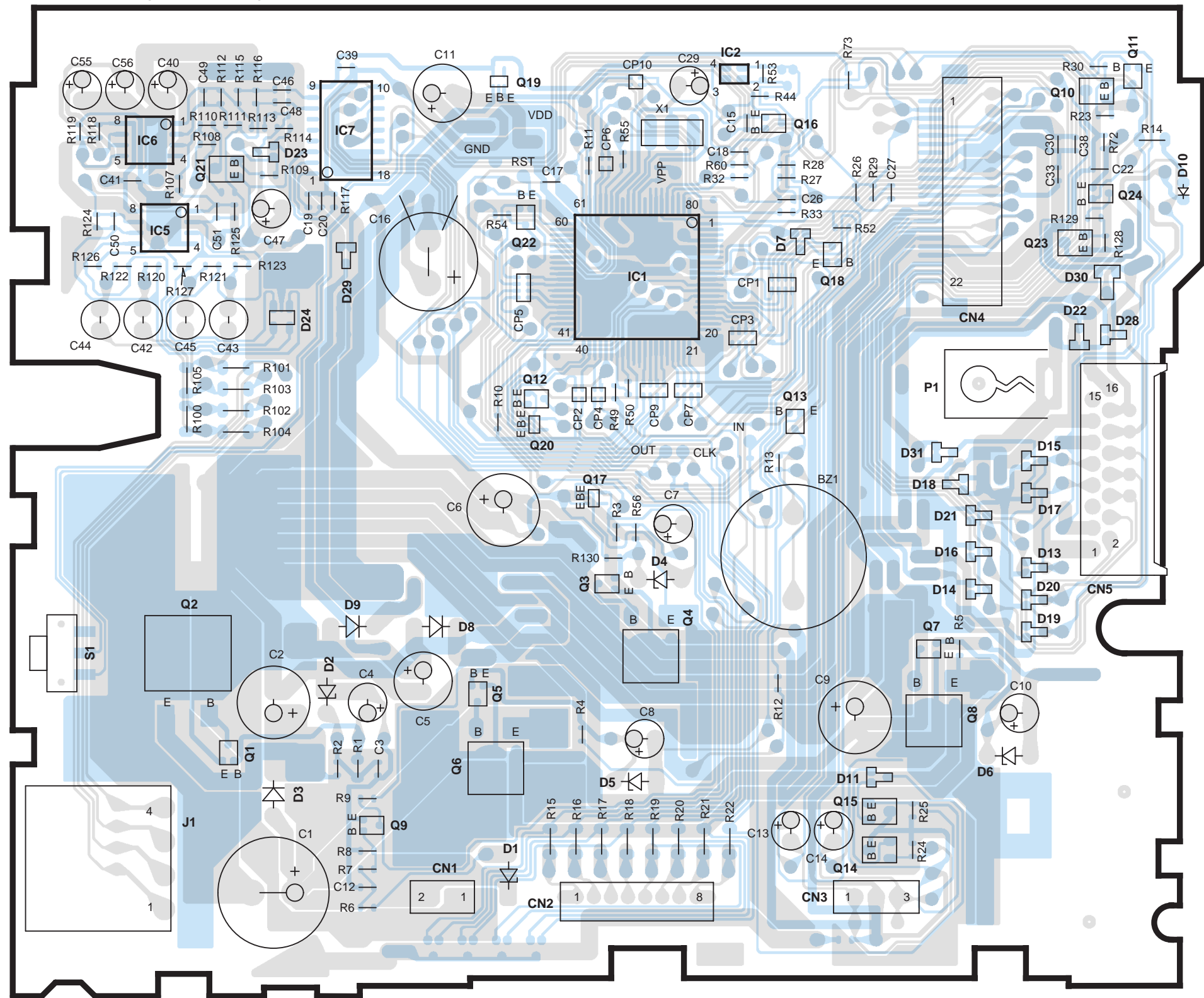


SWITCH UNIT
(X16-110X-XX)

Ref. No.	IC	Q	Address
1			4S
	1		6S

ELECTRIC UNIT

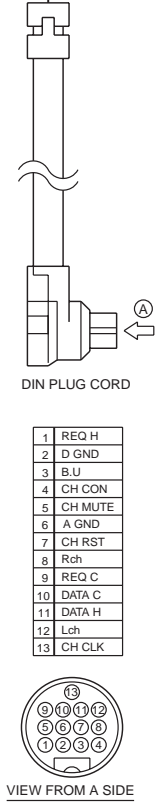
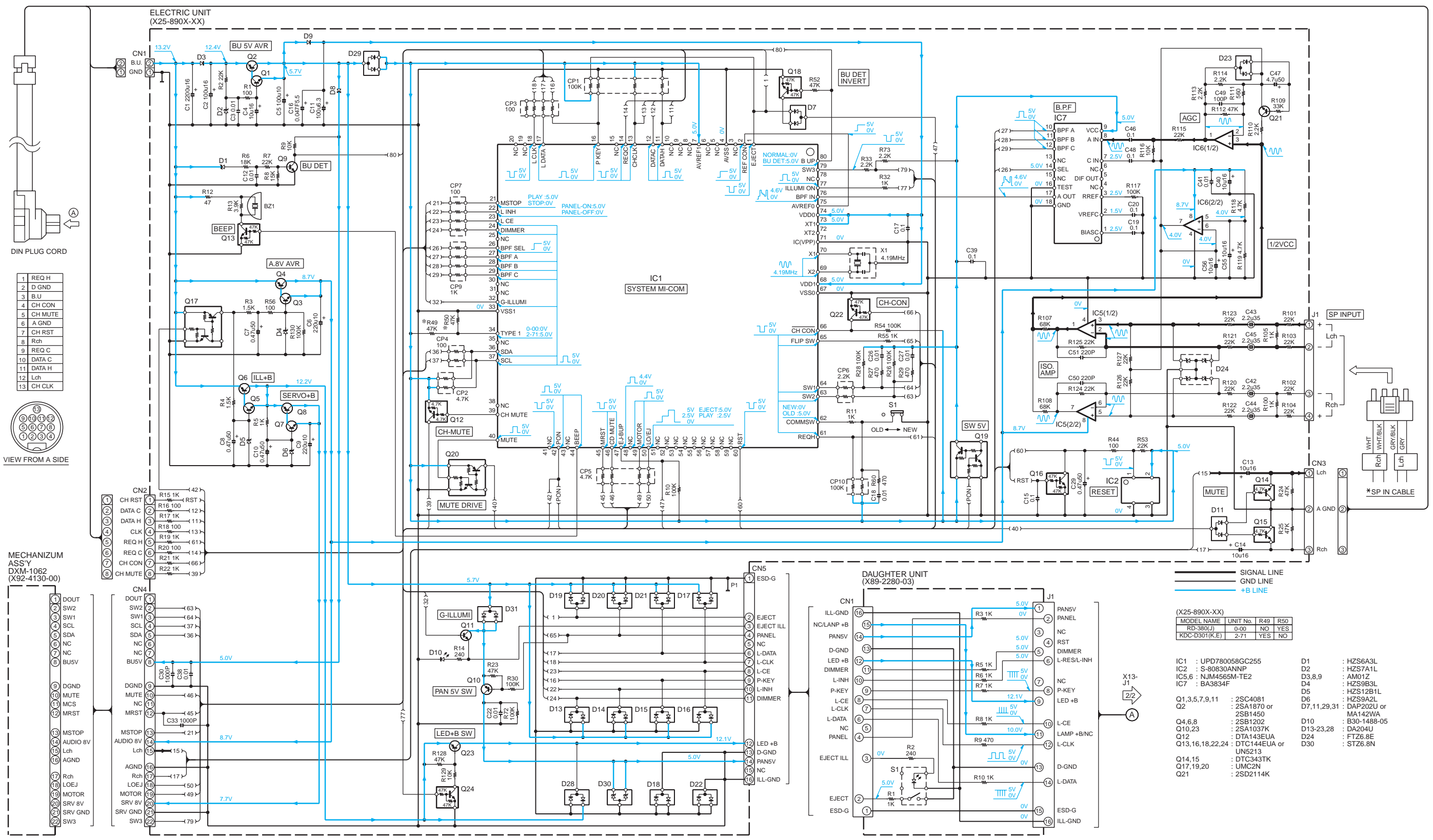
X25-8902-72 (J74-1200-22)



ELECTRIC UNIT
(X25-8902-71)

Ref. No.	IC	Q	Address
1			3X
2			2X
5			2U
6			2U
7			2V
	1		5V
	2		4U
	3		4W
	4		5X
	5		5W
	6		5W
	7		5Y
	8		5Y
	9		6V
	10		2Z
	11		2Z
	12		3W
	13		3Y
	14		6Y
	15		5Y
	16		2Y
	17		4X
	18		3Y
	19		2W
	20		4W
	21		2V
	22		3W
	23		3Z
	24		2Z

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



(X25-890X-XX)			
MODEL NAME	UNIT No.	R49	R50
RD-380(J)	0-00	NO	YES
KDC-D301(K,E)	2-71	YES	NO

- IC1 : UPD780058GC255
- IC2 : S-80830ANNP
- IC5,6 : NJM4565M-TE2
- IC7 : BA3834F
- Q1,3,5,7,9,11 : 2SC4081
- Q2 : 2SA1870 or 2SB1450
- Q10,23 : 2SA1037K
- Q12 : DTA143EUA
- Q13,16,18,22,24 : DTC144EUA or UN5213
- Q14,15 : DTC343TK
- Q17,19,20 : UMC2N
- Q21 : 2SD2114K
- D1 : HZS6A3L
- D2 : HZS7A1L
- D3,8,9 : AM01Z
- D4 : HZS9B3L
- D5 : HZS12B1L
- D6 : HZS9A2L
- D7,11,29,31 : DAP202U or MA142WA
- D10 : B30-1488-05
- D13-23,28 : DA204UJ
- D24 : FTZ6.8E
- D30 : STZ6.8N

DTC343TK
UN5213
2SA1362
2SD2114K

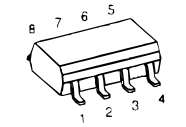
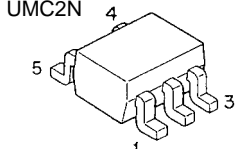
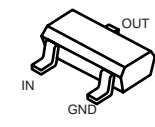
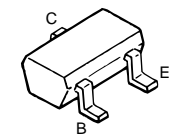
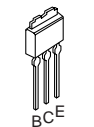
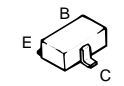
2SB1202

2SA1037K
2SC4081

DTA143EUA
DTC124EUA
DTC144EUA

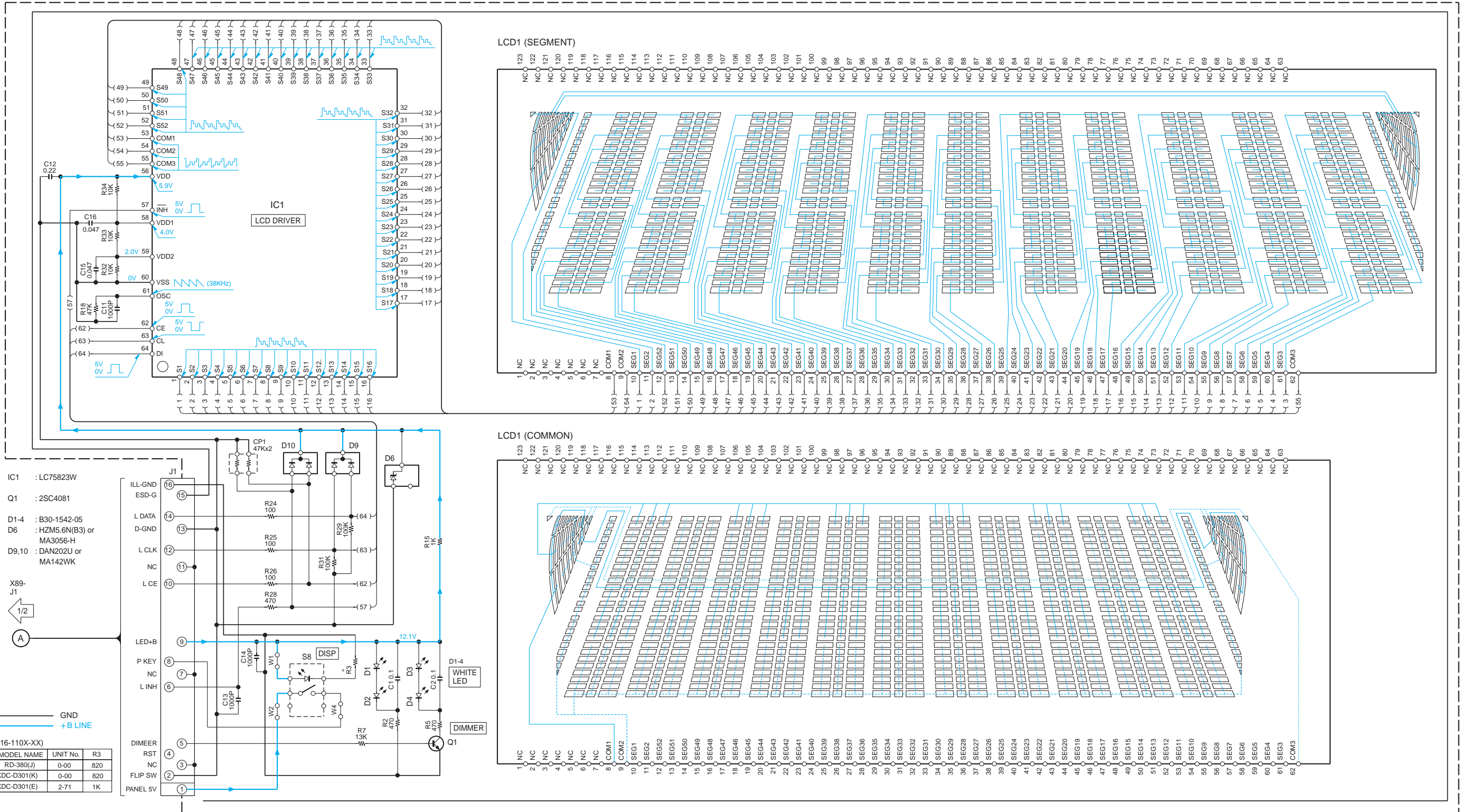
UMC2N 4

NJM4565M-TE2
NJM4565MD



KDC-D301
KENWOOD

SWITCH UNIT
(X16-110X-XX)

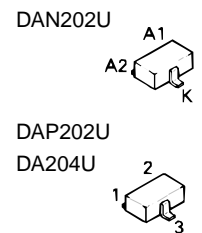


- IC1 : LC75823W
- Q1 : 2SC4081
- D1-4 : B30-1542-05
- D6 : HZM5.6N(B3) or MA3056-H
- D9,10 : DAN202U or MA142WK



(X16-110X-XX)

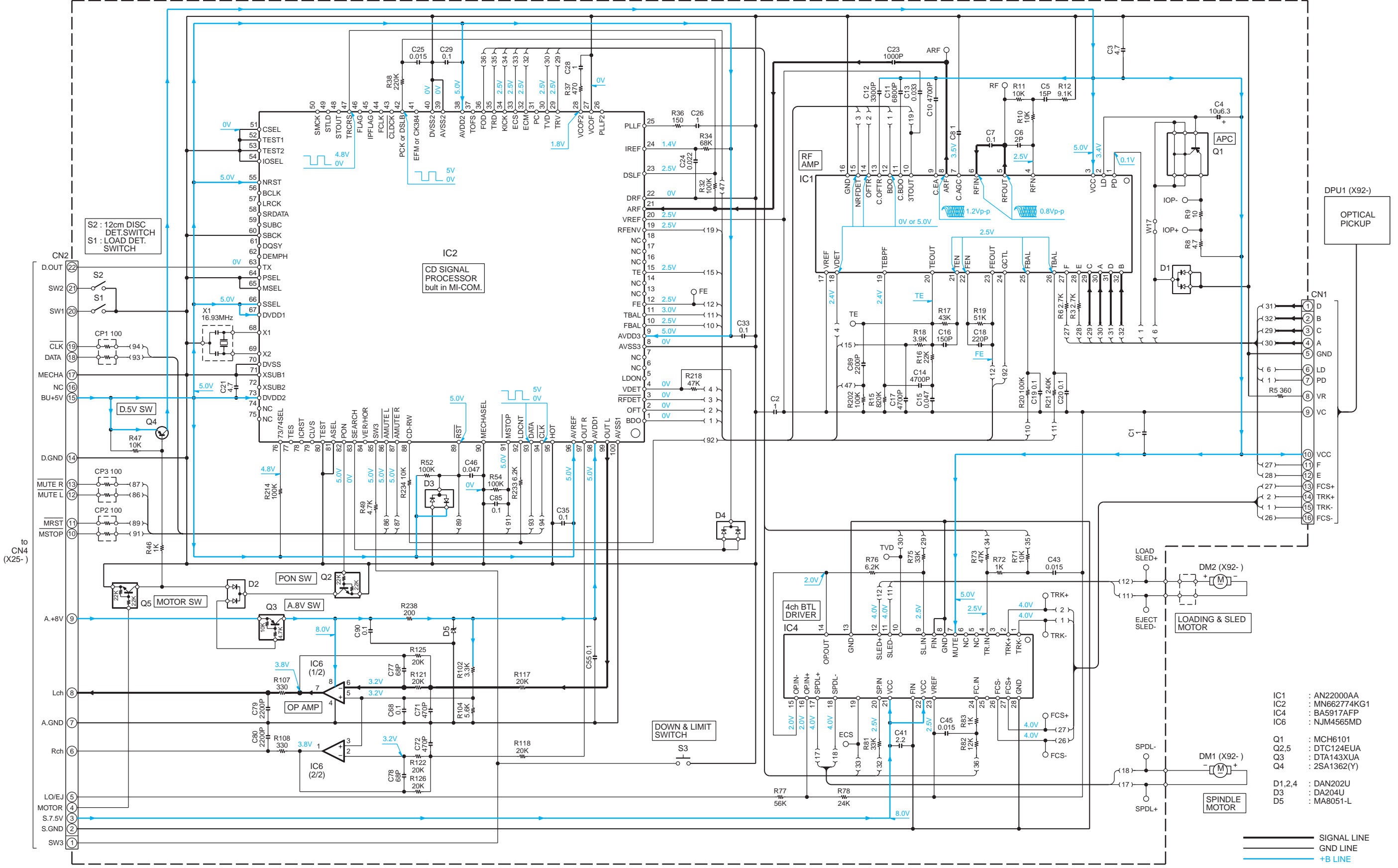
MODEL NAME	UNIT No.	R3
RD-380(J)	0-00	820
KDC-D301(K)	0-00	820
KDC-D301(E)	2-71	1K



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.

(X32-5010-00)



- IC1 : AN22000AA
- IC2 : MN662774KG1
- IC4 : BA5917AFP
- IC6 : NJM4565MD
- Q1 : MCH6101
- Q2,5 : DTC124EUA
- Q3 : DTA143XUA
- Q4 : 2SA1362(Y)
- D1,2,4 : DAN202U
- D3 : DA204U
- D5 : MA8051-L

— SIGNAL LINE
 — GND LINE
 — +B LINE

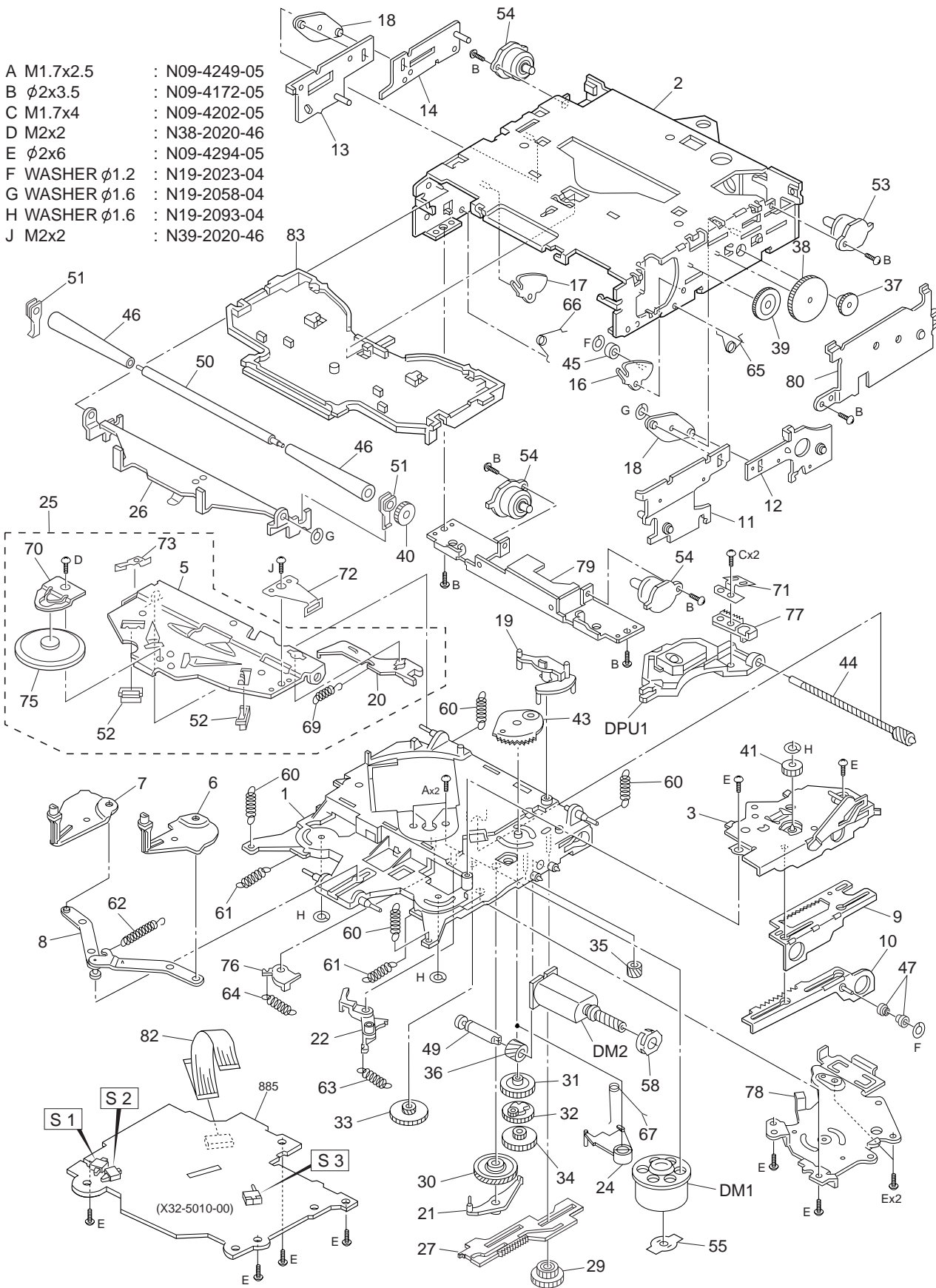
CAUTION:For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to, parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably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

KDC-D301
KENWOOD

EXPLODED VIEW (CD MECHANISM)

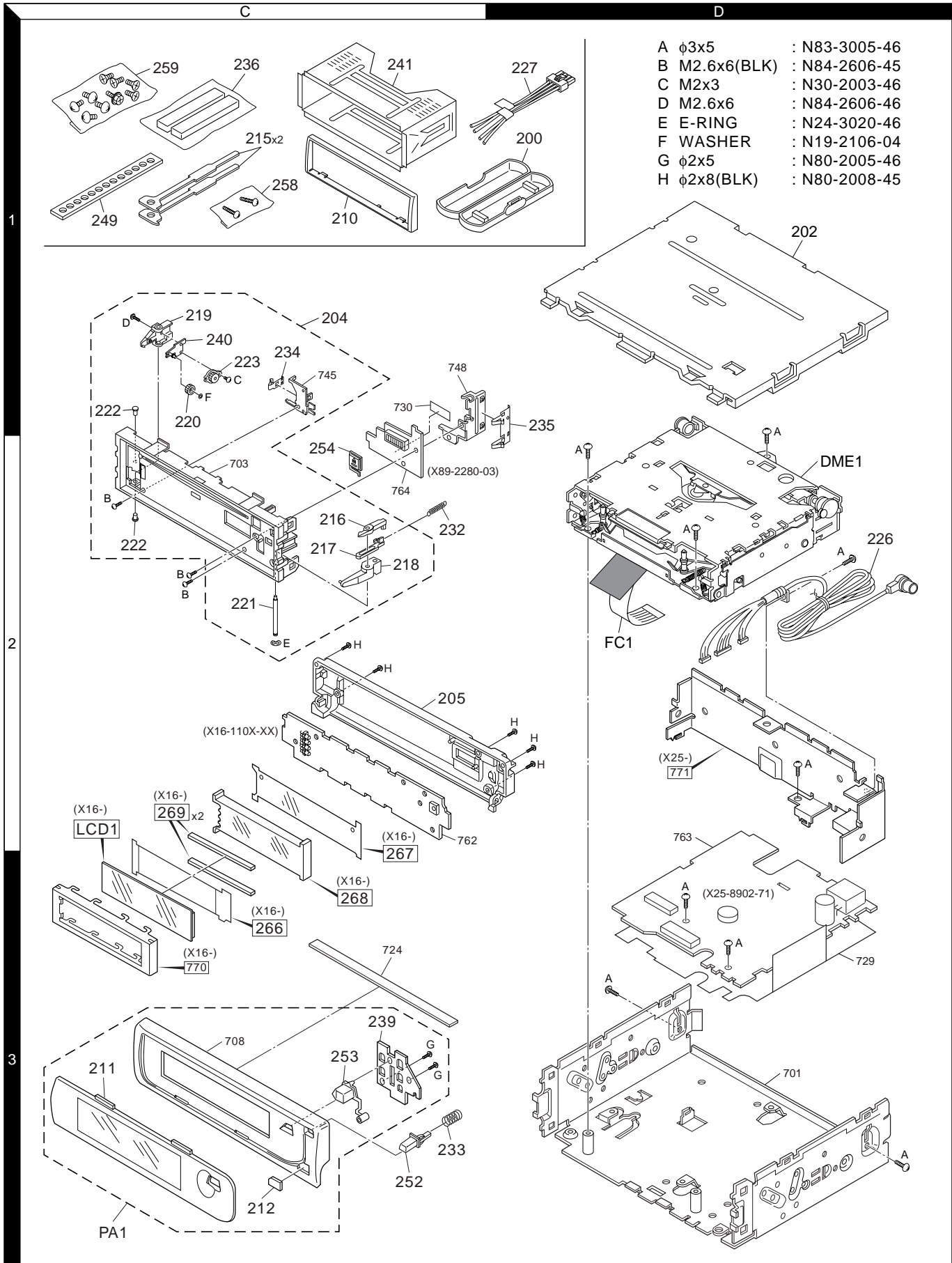
- | | |
|-----------------------|---------------|
| A M1.7x2.5 | : N09-4249-05 |
| B $\phi 2 \times 3.5$ | : N09-4172-05 |
| C M1.7x4 | : N09-4202-05 |
| D M2x2 | : N38-2020-46 |
| E $\phi 2 \times 6$ | : N09-4294-05 |
| F WASHER $\phi 1.2$ | : N19-2023-04 |
| G WASHER $\phi 1.6$ | : N19-2058-04 |
| H WASHER $\phi 1.6$ | : N19-2093-04 |
| J M2x2 | : N39-2020-46 |



Parts with exploded numbers larger than 700 are not supplied.

KDC-D301

EXPLODED VIEW (UNIT)



Parts with exploded numbers larger than 700 are not supplied.

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

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

Teile ohne Parts No. werden nicht geliefert.

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
KMD-D301					
200	1D		A02-1486-13	PLASTIC CABINET ASSY	
202	1D	*	A52-0793-02	TOP PLATE	
204	1C	*	A22-2347-02	SUB PANEL ASSY	
205	2C	*	A46-1729-01	REAR COVER	
PA1	3C	*	A64-2366-02	PANEL ASSY	
210	1C		B07-2188-02	ESCUTCHEON	
211	3C	*	B10-4055-02	FRONT GLASS	
212	3C		B43-1247-24	BADGE	
-			B46-0100-50	WARRANTY CARD	
-			B46-0182-14	ID CARD	E1
-			B46-0606-04	ID CARD	K1
-		*	B64-1957-00	INST. MANUAL (ENG,FRE,SPA)	
-		*	B64-1958-00	INST. MANUAL (GER,DUT,ITA,SPA)	E1
215	1C		D10-3031-04	LEVER	
216	2C		D10-4141-04	LEVER	
217	2C		D10-4142-44	LEVER	
218	2C		D10-4143-14	LEVER	
219	1C		D10-4144-23	LEVER	
220	2C		D13-1352-04	GEAR	
221	2C		D21-2272-04	SHAFT	
222	2C		D21-2273-04	SHAFT	
223	1C		D39-0237-05	DAMPER	
226	2D		E30-4728-15	CORD WITH DIN CONNECTOR	
227	1D		E30-4730-05	DC CORD	
FC1	2D		E39-0180-05	FLAT CABLE	
232	2C		G01-2856-24	EXTENSION SPRING	
233	3C		G01-2921-04	COMPRESSION SPRING	
234	1C		G02-1257-14	FLAT SPRING	
235	2D		G02-1259-14	FLAT SPRING	
236	1C		G11-1860-05	CUSHION	
-		*	H10-4777-02	POLYSTYRENE FOAMED FIXTURE	
-			H25-0329-04	PROTECTION BAG (280X450X0.03)	K1
-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
-			H25-1111-04	PROTECTION BAG (280X450X0.03)	E1
-		*	H54-2104-03	ITEM CARTON CASE	
239	3C		J19-4938-04	HOLDER	
240	1C		J21-7817-24	MOUNTING HARDWARE ASSY	
241	1C	*	J21-9491-13	MOUNTING HARDWARE ASSY	
249	1C		J54-0606-04	STAY	K1
252	3C		K24-1923-14	KNOB (REL)	
253	3C		K25-1026-04	KNOB (DISP)	
254	2C		K24-1947-14	KNOB (EJECT)	
258	1C		N99-1656-05	SCREW SET	K1
259	1C		N99-1632-05	SCREW SET	K1
A	2D		N83-3005-46	PAN HEAD TAPTITE SCREW	
B	2C		N84-2606-45	PAN HEAD TAPTITE SCREW	
C	1C		N30-2003-46	PAN HEAD MACHINE SCREW	
D	1C		N84-2606-46	PAN HEAD TAPTITE SCREW	
E	2C		N24-3020-46	E TYPE RETAINING RING(2Φ)	
F	1C		N19-2106-04	FLAT WASHER (1.4X3X0.25)	
G	3C		N80-2005-46	PAN HEAD TAPTITE SCREW	
H	2C		N80-2008-45	PAN HEAD TAPTITE SCREW	

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
DME1	2D		X92-4130-00	MECHANISM ASSY (DXM-1062)	
SWITCH UNIT (X16-110X-XX)					
266	3C		B11-0976-24	OPTICAL DIFFUSER	
267	2C		B11-0977-04	REFLECTION SHEET	
268	3C	*	B19-2092-03	LIGHTING BOARD	
D1-4			B30-1542-05	LED (WHT)	
LCD1	2C		B38-1013-05	LIQUID CRYSTAL	
C1,2			CK73GB1C104K	CHIP C 0.10UF K	
C11			CK73GB1H102K	CHIP C 1000PF K	
C12			CK73FB1C224K	CHIP C 0.22UF K	
C13,14			CK73GB1H102K	CHIP C 1000PF K	
C15,16			CK73GB1C473K	CHIP C 0.047UF K	
269	2C		E29-1584-04	CONDUCTIVE RUBBER	
J1			E59-0829-05	RECTANGULAR PLUG (16P)	
CP1			R90-0723-05	MULTI-COMP 47K X2	
R2			RK73EB2B471J	CHIP R 470 J 1/8W	
R3			RK73EB2B102J	CHIP R 1.0K J 1/8W	E1
R3			RK73EB2B821J	CHIP R 820 J 1/8W	K1
R5			RK73EB2B471J	CHIP R 470 J 1/8W	
R7			RK73GB1J133J	CHIP R 13K J 1/16W	
R15			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R18			RK73GB1J473J	CHIP R 47K J 1/16W	
R24-26			RK73FB2A101J	CHIP R 100 J 1/10W	
R27,28			RK73FB2A471J	CHIP R 470 J 1/10W	
R29			RK73GB1J104J	CHIP R 100K J 1/16W	
R31			RK73GB1J104J	CHIP R 100K J 1/16W	
R32-34			RK73GB1J103J	CHIP R 10K J 1/16W	
W1,2			R92-2052-05	CHIP R 0 J 1/10W	
W4			R92-2052-05	CHIP R 0 J 1/10W	
S8			S70-0850-05	TACT SWITCH	K1
S8			S70-0877-05	TACT SWITCH	E1
D6			HZM5.6N(B3)	ZENER DIODE	
D6		*	MA3056-H	ZENER DIODE	
D9,10			DAN202U	DIODE	
D9,10			MA142WK	DIODE	
IC1			LC75823W	MOS-IC	
Q1			2SC4081	TRANSISTOR	
ELECTRIC UNIT (X25-8902-71)					
D10			B30-1488-05	LED	
C1			C90-5239-05	ELECTRO 2200UF 16WV	
C2			CE04CW1C101M	ELECTRO 100UF 16WV	
C3			CK73GB1H103K	CHIP C 0.010UF K	
C4			C90-2597-05	ELECTRO 10UF 16WV	
C5			CE04CW1A101M	ELECTRO 100UF 10WV	
C6			CE04CW1A221M	ELECTRO 220UF 10WV	
C7,8			C90-2606-05	ELECTRO 0.47UF 50WV	
C9			CE04CW1A221M	ELECTRO 220UF 10WV	
C10			C90-2606-05	ELECTRO 0.47UF 50WV	
C11			CE04CW0J101M	ELECTRO 100UF 6.3WV	
C12			CK73GB1H103K	CHIP C 0.010UF K	
C13,14			C90-2597-05	ELECTRO 10UF 16WV	
C15			CK73GB1C104K	CHIP C 0.10UF K	

E1: Europe K1: North America

⚠ indicates safety critical components.

PARTS LIST

* New Parts

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ELECTRIC UNIT (X25-8902-71)

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
C16			C90-2945-05	ELECTRO 0.047F 5.5WV	
C17			CK73GB1C104K	CHIP C 0.10UF K	
C18			CK73GB1H103K	CHIP C 0.010UF K	
C19,20			CK73GB1C104K	CHIP C 0.10UF K	
C22			CK73GB1H103K	CHIP C 0.010UF K	
C26,27			CK73GB1H103K	CHIP C 0.010UF K	
C29			C90-2606-05	ELECTRO 0.47UF 50WV	
C30			CK73GB1H102K	CHIP C 1000PF K	
C33			CK73GB1H102K	CHIP C 1000PF K	
C38			CK73GB1H103K	CHIP C 0.010UF K	
C39			CK73GB1C104K	CHIP C 0.10UF K	
C40			C90-2597-05	ELECTRO 10UF 16WV	
C41			CK73GB1H103K	CHIP C 0.010UF K	
C42-45			C90-2525-05	NP-ELECT 2.2UF 35WV	
C46			CK73GB1C104K	CHIP C 0.10UF K	
C47			C90-2595-05	ELECTRO 4.7UF 16WV	
C48			CK73GB1C104K	CHIP C 0.10UF K	
C49			CC73GCH1H101J	CHIP C 100PF J	
C50,51			CC73GCH1H221J	CHIP C 220PF J	
C55,56			C90-2597-05	ELECTRO 10UF 16WV	
CN1			E40-3237-05	PIN ASSY (2P)	
CN2			E40-3252-05	PIN ASSY (8P)	
CN3			E40-3238-05	PIN ASSY (3P)	
CN4			E40-9339-05	FLAT CABLE CONNECTOR (22P)	
CN5			E40-9595-05	PIN ASSY (16P)	
J1			E58-0882-05	RECTANGULAR RECEPTACLE (4P)	
X1			L78-0556-05	RESONATOR (4.19MHz)	
CP1			R90-0720-05	MULTI-COMP 100K X4	
CP2			R90-0719-05	MULTI-COMP 4.7K X2	
CP3			R90-1014-05	MULTI-COMP 100 X4	
CP4			R90-1019-05	MULTI-COMP 100 X2	
CP5			R90-0718-05	MULTI-COMP 4.7K X4	
CP6			R90-1013-05	MULTI-COMP 2.2K X2	
CP7			R90-1014-05	MULTI-COMP 100 X4	
CP9			R90-0724-05	MULTI-COMP 1K X4	
CP10			R90-0737-05	MULTI-COMP 100K X2	
R1			RK73FB2A101J	CHIP R 100 J 1/10W	
R2			RK73GB1J223J	CHIP R 22K J 1/16W	
R3,4			RK73GB1J152J	CHIP R 1.5K J 1/16W	
R5			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R6			RK73GB1J183J	CHIP R 18K J 1/16W	
R7			RK73GB1J223J	CHIP R 22K J 1/16W	
R8			RK73GB1J153J	CHIP R 15K J 1/16W	
R9			RK73GB1J103J	CHIP R 10K J 1/16W	
R10			RK73GB1J104J	CHIP R 100K J 1/16W	
R11			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R12			RK73GB1J470J	CHIP R 47 J 1/16W	
R13			RK73GB1J392J	CHIP R 3.9K J 1/16W	
R14			RK73EB2B241J	CHIP R 240 J 1/8W	
R15			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R16			RK73EB2B101J	CHIP R 100 J 1/8W	
R17			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R18			RK73EB2B101J	CHIP R 100 J 1/8W	

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
R19			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R20			RK73EB2B101J	CHIP R 100 J 1/8W	
R21,22			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R23-25			RK73GB1J473J	CHIP R 47K J 1/16W	
R26			RK73GB1J104J	CHIP R 100K J 1/16W	
R27			RK73GB1J471J	CHIP R 470 J 1/16W	
R28			RK73GB1J104J	CHIP R 100K J 1/16W	
R29			RK73GB1J471J	CHIP R 470 J 1/16W	
R30			RK73GB1J104J	CHIP R 100K J 1/16W	
R32			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R33			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R44			RK73GB1J101J	CHIP R 100 J 1/16W	
R49			RK73GB1J473J	CHIP R 47K J 1/16W	
R52			RK73GB1J473J	CHIP R 47K J 1/16W	
R53			RK73GB1J223J	CHIP R 22K J 1/16W	
R54			RK73GB1J104J	CHIP R 100K J 1/16W	
R55			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R56			RK73GB1J101J	CHIP R 100 J 1/16W	
R60			RK73GB1J471J	CHIP R 470 J 1/16W	
R72			RK73GB1J104J	CHIP R 100K J 1/16W	
R73			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R100			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R101-104			RK73EB2B223J	CHIP R 22K J 1/8W	
R105			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R107,108			RK73GB1J683J	CHIP R 68K J 1/16W	
R109			RK73GB1J333J	CHIP R 33K J 1/16W	
R110			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R111			RK73GB1J561J	CHIP R 560 J 1/16W	
R112			RK73GB1J473J	CHIP R 47K J 1/16W	
R113,114			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R115			RK73GB1J223J	CHIP R 22K J 1/16W	
R116			RK73GB1J103J	CHIP R 10K J 1/16W	
R117			RK73GB1J104J	CHIP R 100K J 1/16W	
R118,119			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R120-127			RK73GB1J223J	CHIP R 22K J 1/16W	
R128			RK73GB1J473J	CHIP R 47K J 1/16W	
R129			RK73GB1J103J	CHIP R 10K J 1/16W	
R130			RK73GB1J104J	CHIP R 100K J 1/16W	
S1			S62-0857-05	SLIDE SWITCH	
BZ1			T95-0214-05	PIEZOELECTRIC VIBRATOR	
D1			HZS6A3L	ZENER DIODE	
D2			HZS7A1L	ZENER DIODE	
D3			AM01Z	DIODE	
D4			HZS9B3L	ZENER DIODE	
D5			HZS12B1L	ZENER DIODE	
D6			HZS9A2L	ZENER DIODE	
D7			DAP202U	DIODE	
D7			MA142WA	DIODE	
D8,9			AM01Z	DIODE	
D11			DAP202U	DIODE	
D11			MA142WA	DIODE	
D13-23			DA204U	DIODE	
D24			FTZ6.8E	ZENER DIODE	

E1: Europe K1: North America

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PARTS LIST

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ELECTRIC UNIT (X25-8902-71)

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
D28			DA204U	DIODE	
D29			DAP202U	DIODE	
D29			MA142WA	DIODE	
D30			STZ6.8N	ZENER DIODE	
D31			DAP202U	DIODE	
D31			MA142WA	DIODE	
IC1		*	UPD780058GC255	MI-COM IC	
IC2			S-80830ANNP	MOS-IC	
IC5,6			NJM4565M-TE2	ANALOGUE IC	
IC7			BA3834F	MOS-IC	
Q1			2SC4081	TRANSISTOR	
Q2			2SA1870	TRANSISTOR	
Q2		*	2SB1450	TRANSISTOR	
Q3			2SC4081	TRANSISTOR	
Q4			2SB1202	TRANSISTOR	
Q5			2SC4081	TRANSISTOR	
Q6			2SB1202	TRANSISTOR	
Q7			2SC4081	TRANSISTOR	
Q8			2SB1202	TRANSISTOR	
Q9			2SC4081	TRANSISTOR	
Q10			2SA1037K	TRANSISTOR	
Q11			2SC4081	TRANSISTOR	
Q12			DTA143EUA	DIGITAL TRANSISTOR	
Q13			DTC144EUA	DIGITAL TRANSISTOR	
Q13			UN5213	DIGITAL TRANSISTOR	
Q14,15			DTC343TK	DIGITAL TRANSISTOR	
Q16			DTC144EUA	DIGITAL TRANSISTOR	
Q16			UN5213	DIGITAL TRANSISTOR	
Q17			UMC2N	TRANSISTOR	
Q18			DTC144EUA	DIGITAL TRANSISTOR	
Q18			UN5213	DIGITAL TRANSISTOR	
Q19,20			UMC2N	TRANSISTOR	
Q21			2SD2114K	TRANSISTOR	
Q22			DTC144EUA	DIGITAL TRANSISTOR	
Q22			UN5213	DIGITAL TRANSISTOR	
Q23			2SA1037K	TRANSISTOR	
Q24			DTC144EUA	DIGITAL TRANSISTOR	
Q24			UN5213	DIGITAL TRANSISTOR	
CD PLAYER UNIT (X32-5010-00)					
C1,2			CK73FB1C105K	CHIP C	1.0UF K
C3			CK73FB0J475K	CHIP C	4.7UF K
C4			C92-0566-05	CHIP-TAN	10UF 6.3WV
C5			CC73GCH1H150J	CHIP C	15PF J
C6			CC73GCH1H020C	CHIP C	2.0PF C
C7			CK73GB1C104K	CHIP C	0.10UF K
C8			CK73FB1C105K	CHIP C	1.0UF K
C10			CK73GB1H472K	CHIP C	4700PF K
C11			CK73GB1H682K	CHIP C	6800PF K
C12			CK73GB1H332K	CHIP C	3300PF K
C13			CK73GB1C333K	CHIP C	0.033UF K
C14			CK73GB1H472K	CHIP C	4700PF K
C15			CK73GB1C473K	CHIP C	0.047UF K
C16			CC73GCH1H151J	CHIP C	150PF J
C17			CK73GB1H472K	CHIP C	4700PF K

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
C18			CC73GCH1H221J	CHIP C	220PF J
C19,20			CK73GB1C104K	CHIP C	0.10UF K
C21			CK73FB0J475K	CHIP C	4.7UF K
C23			CK73GB1H102K	CHIP C	1000PF K
C24			CK73GB1E223K	CHIP C	0.022UF K
C25			CK73GB1H153K	CHIP C	0.015UF K
C26			CK73GB0J105K	CHIP C	1.0UF K
C28			CK73GB0J105K	CHIP C	1.0UF K
C29			CK73GB1C104K	CHIP C	0.10UF K
C33			CK73GB1C104K	CHIP C	0.10UF K
C35			CK73GB1C104K	CHIP C	0.10UF K
C41			CK73EB1C225K	CHIP C	2.2UF K
C43			CK73GB1H153K	CHIP C	0.015UF K
C45			CK73GB1H153K	CHIP C	0.015UF K
C46			CK73GB1C473K	CHIP C	0.047UF K
C55			CK73GB1C104K	CHIP C	0.10UF K
C68			CK73GB1C104K	CHIP C	0.10UF K
C71,72			CK73GB1H471K	CHIP C	470PF K
C77,78			CC73GCH1H680J	CHIP C	68PF J
C79,80			CK73GB1H222K	CHIP C	2200PF K
C85			CK73GB1C104K	CHIP C	0.10UF K
C89			CK73GB1H222K	CHIP C	2200PF K
C90			CK73GB1C104K	CHIP C	0.10UF K
CN1			E40-9536-05	FLAT CABLE CONNECTOR (16P)	
CN2			E40-9339-05	FLAT CABLE CONNECTOR (22P)	
CN2			E41-0036-05	FLAT CABLE CONNECTOR (22P)	
CN2			E41-0129-05	FLAT CABLE CONNECTOR (22P)	
X1			L78-0572-05	RESONATOR (16.93MHZ)	
CP1-3			R90-1019-05	MULTI-COMP	100 X2
R3			RK73GB1J272J	CHIP R	2.7K J 1/16W
R5			RK73GB1J361J	CHIP R	360 J 1/16W
R6			RK73GB1J272J	CHIP R	2.7K J 1/16W
R8			RK73EB2B4R7J	CHIP R	4.7 J 1/8W
R9			RK73EB2B100J	CHIP R	10 J 1/8W
R10,11			RK73GB1J103J	CHIP R	10K J 1/16W
R12			RK73GB1J912J	CHIP R	9.1K J 1/16W
R15			RK73GB1J824J	CHIP R	820K J 1/16W
R16			RK73GB1J223J	CHIP R	22K J 1/16W
R17			RK73GB1J433J	CHIP R	43K J 1/16W
R18			RK73GB1J392J	CHIP R	3.9K J 1/16W
R19			RK73GB1J513J	CHIP R	51K J 1/16W
R20			RK73GB1J104J	CHIP R	100K J 1/16W
R21			RK73GB1J244J	CHIP R	240K J 1/16W
R32			RK73GB1J104J	CHIP R	100K J 1/16W
R34			RK73GB1J683J	CHIP R	68K J 1/16W
R36			RK73GB1J151J	CHIP R	150 J 1/16W
R37			RK73GB1J471J	CHIP R	470 J 1/16W
R38			RK73GB1J224J	CHIP R	220K J 1/16W
R46			RK73GB1J102J	CHIP R	1.0K J 1/16W
R47			RK73GB1J103J	CHIP R	10K J 1/16W
R49			RK73GB1J472J	CHIP R	4.7K J 1/16W
R52			RK73GB1J104J	CHIP R	100K J 1/16W
R54			RK73GB1J104J	CHIP R	100K J 1/16W

E1: Europe K1: North America

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PARTS LIST

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Teile ohne Parts No. werden nicht geliefert.

CD PLAYER UNIT (X32-5010-00)

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
R71			RK73GB1J103J	CHIP R 10K J 1/16W	
R72			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R73			RK73GB1J473J	CHIP R 47K J 1/16W	
R75			RK73GB1J333J	CHIP R 33K J 1/16W	
R76			RK73GB1J622J	CHIP R 6.2K J 1/16W	
R77			RK73GB1J563J	CHIP R 56K J 1/16W	
R78			RK73GB1J243J	CHIP R 24K J 1/16W	
R81			RK73GB1J333J	CHIP R 33K J 1/16W	
R82			RK73GB1J123J	CHIP R 12K J 1/16W	
R83			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R102			RK73GB1J332J	CHIP R 3.3K J 1/16W	
R104			RK73GB1J562J	CHIP R 5.6K J 1/16W	
R107,108			RK73FB2A331J	CHIP R 330 J 1/10W	
R117,118			RK73FB2A203J	CHIP R 20K J 1/10W	
R121,122			RK73FB2A203J	CHIP R 20K J 1/10W	
R125,126			RK73FB2A203J	CHIP R 20K J 1/10W	
R202			RK73GB1J104J	CHIP R 100K J 1/16W	
R214			RK73GB1J104J	CHIP R 100K J 1/16W	
R218			RK73GB1J473J	CHIP R 47K J 1/16W	
R233			RK73GB1J622J	CHIP R 6.2K J 1/16W	
R234			RK73GB1J103J	CHIP R 10K J 1/16W	
R238			RK73FB2A201J	CHIP R 200 J 1/10W	
W17			R92-2053-05	CHIP R 0 J 1/8W	
S1,2			S68-0838-05	PUSH SWITCH	
S3			S68-0859-05	PUSH SWITCH	
D1,2			DAN202U	DIODE	
D3			DA204U	DIODE	
D4			DAN202U	DIODE	
D5			MA8051-L	ZENER DIODE	
IC1			AN22000AA	ANALOGUE IC	
IC2			MN662774KG1	MOS-IC	
IC4			BA5917AFP	ANALOGUE IC	
IC6			NJM4565MD	IC(OP AMP X2)	
Q1			MCH6101	TRANSISTOR	
Q2			DTC124EUA	DIGITAL TRANSISTOR	
Q3			DTA143XUA	DIGITAL TRANSISTOR	
Q4			2SA1362(Y)	TRANSISTOR	
Q5			DTC124EUA	DIGITAL TRANSISTOR	
DAUGHTER UNIT (X89-2280-03)					
CN1		*	E40-9596-05	SOCKET FOR PIN ASSY (16P)	
J1		*	E58-0865-05	RECTANGULAR RECEPTACLE (16P)	
R1			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R2			RK73EB2B241J	CHIP R 240 J 1/8W	
R3			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R5-8			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R9			RK73EB2B471J	CHIP R 470 J 1/8W	
R10			RK73EB2B102J	CHIP R 1.0K J 1/8W	
S1			S70-0841-05	TACT SWITCH	
MECHANISM ASSY (X92-4130-00)					
1	2A		A10-4482-01	CHASSIS	
2	1B		A10-4225-33	CHASSIS CALKING ASSY	
3	2B		A11-0915-43	SUB CHASSIS CALKING ASSY	

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
5	2A		D10-3082-13	ARM	
6	2A		D10-4306-14	ARM ASSY	
7	2A		D10-4305-14	ARM ASSY	
8	3A		D10-3087-44	ARM ASSY	
9	3B		D10-3092-03	SLIDER	
10	3B		D10-3093-04	SLIDER ASSY	
11	2B		D10-3095-04	SLIDER ASSY	
12	2B		D10-3096-04	SLIDER ASSY	
13	1A		D10-3099-24	SLIDER ASSY	
14	1A		D10-3100-04	SLIDER ASSY	
16	1B		D10-4004-04	LEVER ASSY	
17	1B		D10-4006-04	LEVER	
18	1A		D10-4007-04	LEVER	
19	2B		D10-4008-14	LEVER	
20	2A		D10-4009-23	ARM	
21	3A		D10-4010-04	LEVER	
22	3A		D10-4307-04	LEVER ASSY	
24	3B		D10-4050-04	ARM	
25	2A		D10-4038-23	ARM ASSY	
26	2A		D10-4123-24	LEVER ASSY	
27	3A		D13-1442-03	RACK (GEAR)	
29	3B		D13-1231-04	GEAR	
30	3A		D13-1240-04	GEAR	
31	3B		D13-1233-04	GEAR	
32	3B		D13-1234-14	GEAR ASSY	
33	3A		D13-1441-03	GEAR	
34	3B		D13-1232-04	GEAR	
35	3B		D13-1241-04	GEAR	
36	3A		D13-1242-04	GEAR	
37	1B		D13-1243-04	GEAR	
38	1B		D13-1244-04	GEAR	
39	1B		D13-1245-14	GEAR	
40	2A		D13-1246-04	GEAR	
41	2B		D13-1247-04	GEAR	
43	2B		D13-1249-04	GEAR ASSY	
44	2B		D13-1341-04	GEAR ASSY (LEAD SCREW)	
45	1B		D14-0668-04	ROLLER	
46	2A		D14-0670-04	ROLLER	
47	3B		D14-0674-04	ROLLER	
49	3A		D21-2228-14	SHAFT	
50	1A		D21-2229-04	SHAFT	
51	1A		D23-0925-24	RETAINER	
52	2A		D32-0614-04	STOPPER	
53	1B		D39-0223-05	DAMPER (YEL)	
54	2B		D39-0224-05	DAMPER (BLK)	
55	3B		F09-1246-04	SHEET	
58	3B		F09-1266-14	SHEET	
60	2A		G01-2770-04	EXTENSION SPRING	
61	3A		G01-2771-04	EXTENSION SPRING	
62	3A		G01-2772-24	EXTENSION SPRING	
63	3A		G01-2773-14	EXTENSION SPRING	
64	3A		G01-2774-34	EXTENSION SPRING	
65	1B		G01-2775-04	TORSION COIL SPRING	
66	1B		G01-2776-14	TORSION COIL SPRING	

E1: Europe K1: North America

⚠ indicates safety critical components.

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

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

Teile ohne Parts No. werden nicht geliefert.

MECHANISM ASSY (X92-4130-00)

Ref.No.	A d d	N e w	Parts No.	Description	Dest inati on
67	3B		G01-2777-24	TORSION COIL SPRING	
69	2A		G01-2844-04	EXTENSION SPRING	
70	2A		G02-1231-04	FLAT SPRING	
71	2B		G02-1232-24	FLAT SPRING	
72	2A		G02-1241-24	FLAT SPRING	
73	2A		G02-1248-14	FLAT SPRING	
75	2A		J11-0613-13	CLAMPER	
76	3A		J19-4678-13	HOLDER	
77	2B		J19-4679-24	HOLDER	
78	3B		J21-7684-13	MOUNTING HARDWARE	
79	2B		J21-7686-13	MOUNTING HARDWARE	
80	1B		J21-7690-03	MOUNTING HARDWARE	
82	3A		J84-0107-05	FLEXIBLE PRINTED WIRING BOARD	
83	1A		J90-0757-22	GUIDE	
A	2A		N09-4249-05	MACHINE SCREW (M1.7X2.5,LOCK)	
B	1B		N09-4172-05	TAPPING SCREW (2X3.5,CTIT)	
C	2B		N09-4202-05	STEPPED SCREW	
D	2A		N38-2020-46	PAN HEAD MACHIN SCREW	
E	3A		N09-4294-05	TAPTITE SCREW (BIND P TAPTIT)	
F	3B		N19-2023-04	FLAT WASHER	
G	2A		N19-2058-04	FLAT WASHER	
H	3A		N19-2093-04	FLAT WASHER	
J	2A		N39-2020-46	PAN HEAD MACHIN SCREW	
DM1	3B		T42-0764-04	DC MOTOR ASSY (SPINDLE)	
DM2	3B		T42-0763-04	DC MOTOR ASSY (LOADING)	
DPU1	2B		T25-0215-05	OPTICAL PICKUP HEAD	

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

E1: Europe K1: North America

△ indicates safety critical components.

KDC-D301

SPECIFICATIONS

CD section

Laser diode	GaAlAs($\lambda=780\text{nm}$)
Digital filter(D/A)	8 Times Over Sampling
D/A converter	1 Bit
Spindle speed	500rpm~200rpm(CLV)
Wow & Flutter	Below measurable limit
Frequency response	5Hz~20kHz($\pm 1\text{dB}$)
Total Harmonic Distortion	0.01%(1kHz)
S/N Ratio	94dB
Dynamic range	94dB
Channel separation	85dB

General

Operating voltage(11V~16V allowable)	14.4V
Current consumption	0.8A
Installation size(Width x Height x Depth)	180x50x145(mm)
	7-1/16x1-15/16x5-3/4(inch)
Weight	1.3kg
	2.9lbs

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

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