CD RECEIVER

KDC-X679

SERVICE MANUAL

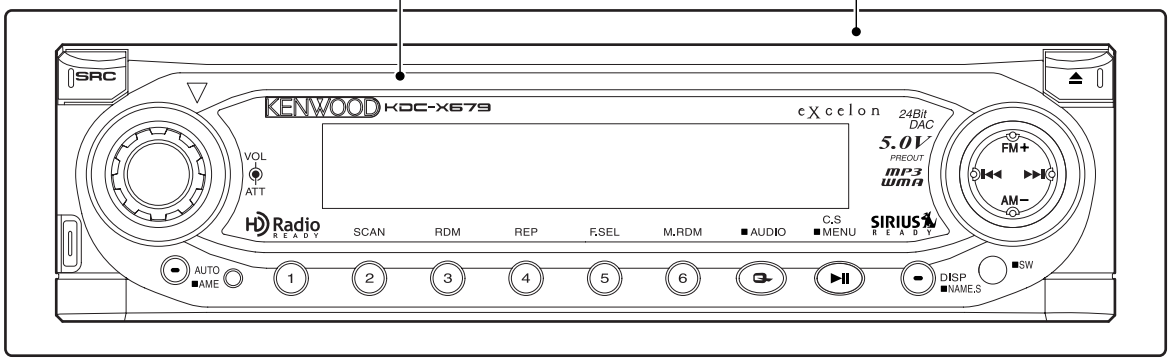
KENWOOD

B53-0122-00 (N) 764

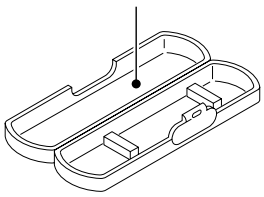
CD MECHANISM EXTENSION CORD (24P) : W05-0935-00

Panel assy
(A64-3212-12)

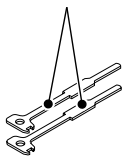
Escutcheon
(B07-3083-02)



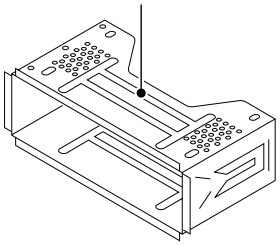
Plastic cabinet assy
(A02-2732-03)



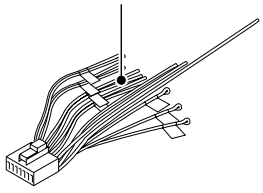
Lever
(D10-4589-04) x2



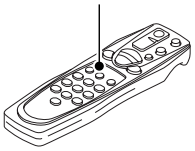
Mounting hardware assy
(J21-9716-03)



DC cord
(E30-6294-05)



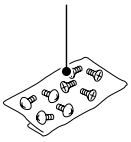
Remote controller assy (RC-505)
(A70-2059-05)



Size AA battery
(Not suplied)

Screw
(N09-6212-05)

Screw set
(N99-1723-05)



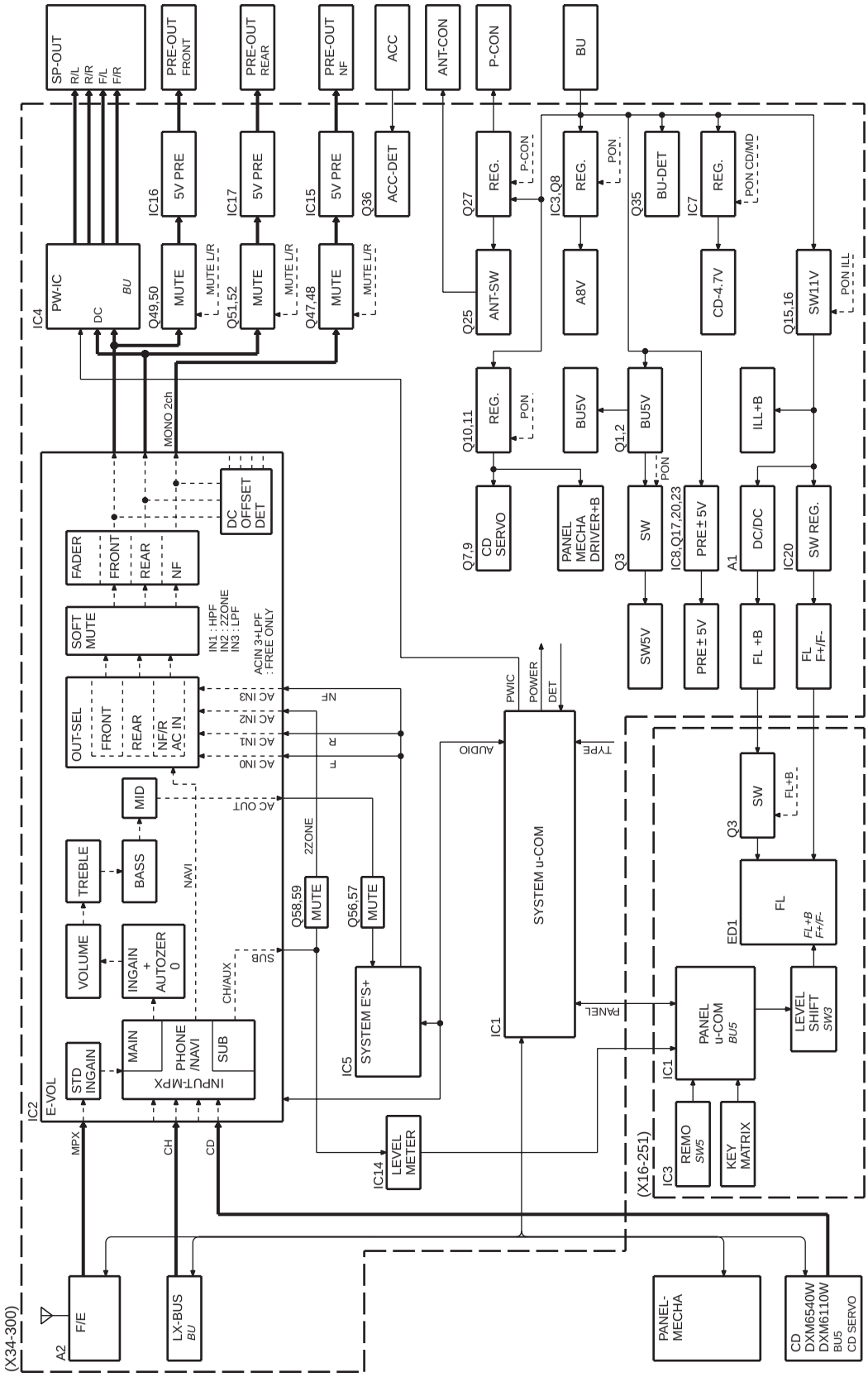
TDF PANEL INFORMATION

MODEL	TDF PANEL No.	TDF NAME
KDC-X679	Y33-1990-60	TDF-46DX

40%

KDC-X679

BLOCK DIAGRAM



COMPONENTS DESCRIPTION

● SUB-CIRCUIT UNIT (X16-2510-10)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	Panel μcom	
IC2	3.3V Regulater	The power supply of IC and VFD (Logic) which are driven by 3.3V
IC3	Remote Control IC	
IC4	Buffer IC	It is change into 3.3V from 5V
Q1	FL BLK SW	VFD is turned on when Q1's base level goes "H"
Q2,3	FL+B SW	FL+B (VDD2) is turned on when Q2's base level goes "H"
Q4	SW5V	The power supply of IC3 is turned on when Q4's base level goes "L"
Q6	∇ LED SW	∇ LED is turned on when Q6's base level goes "H"
Q7,9	Red LED SW	RED LED is turned on when Q7's base level goes "L"
Q8,10	Green LED SW	GREEN LED is turned on when Q8's base level goes "L"
Q11,12	Blue LED SW	BLUE LED is turned on when Q11's base level goes "L"

● ELECTRIC UNIT (X34-3000-10)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	System μCOM	Controls FM/AM tuner, the changer, CD/MD mechanism, Panel, volume and tone.
IC2	E.Vol & N.C.MPX	Controls the source, volume, tone and FM multiplex detector
IC3	A8V Ref Power Supply	Output 1.27V
IC4	Power IC	Amplifies the front L/R and the rear L/R to 50W or 47W maximum.
IC5	System E's	4HPF&1Gain Controll
IC7	SW Regulator	Power Supply for mp3
IC8	±9V AVR	Power Suppil for 5V Pre Out
IC10	Muting logic IC	Controls logic for muting.
IC11	Reset IC	"L" when detection voltage goes below 3.6V or less.
IC13	Panel mecha motor driver	Panel mecha control IN1 / IN2 / Panel mecha L / L / WAIT L / H / OPEN H / L / CLOSE H / H / STOP
IC14	Level meter Buffer	The signal of IC2 is sent to Panel μcom
IC15~17	5V Pre-out Amp	
IC20	SW Regulator	Power Supply for VFD
Q1,2	B.U.5V AVR	While BU is applied, BU5V AVR outputs +5V.
Q3,4	SW5V	When Q4'base goes Hi, SW5V outputs +5V.
Q5	SW14V	When Q5'2pin goes Hi, SW14V outputs 14V.
Q6,8	AUDIO8V AVR	When Q6'2in goes Hi, A8V AVR outputs 8.0V.
Q7,9	SERVO+B AVR	When Q9'base goes Hi, S+B AVR outputs 7.5V.

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q10,11	SERVO+B AVR (Panel Mecha)	When Q10'base goes Hi, S+B AVR outputs 8.5V.
Q12	SW for IC7	When Q12'base gose Lo, IC7 is turned on.
Q13,15,16	FL&ILL AVR	When Q13'2pin goes Hi, ILL AVR outputs 10.5V.
Q17,18	AUDIO 10.5V AVR	When Q16'base goes Hi, AVR outputs 10.5V.
Q19~21	Pre-Amp -9V AVR	Q19 and 21 works as a differential amplifier, Q20 works as a driver and -9.1V is supplied to OP Amp for Pre-out.
Q22~24	Pre-Amp +9V AVR	Q22 and 24 works as a differential amplifier, Q23 works as a driver and +9.4V is supplied to OP Amp for Pre-out.
Q25,26	P-ANT SW	When Q23'base goes Hi, P-ANT SW outputs 14V.
Q27,30	P-CON SW	When Q30'base goes Hi, AVR outputs 14V.
Q28,29	P-CON Protection	Protect Q27 by turning on when P-CON output is grounded.
Q31	Ex Amp Control Buffer	
Q32	Small lamp det SW	When Q32'base goes Hi, Q32 is turned on.
Q33,34	SERGE Det.	When Q33'base goes Hi, IC4 is changed into a standby state.
Q35	BU det	When Q35'base gose Hi, Q27 is turned on.
Q36	ACC det	When Q36'base gose Hi, Q29 is turned on.
Q37,38	Pre-out mute driver	When a base gose Lo, mute driver is turned on.
Q39	Sub-out mute driver	When a base gose Lo, mute driver is turned on.
Q40	AC-out mute driver	When a base gose Lo, mute driver is turned on.
Q41,42	AM+B SW	When Q42'base gose Hi, AM+B is out.
Q44	DSI Driver	DSI lights when the base is "L". DSI turns off when the base is "H". DSI turns on and off when panel is taken off.
Q45,46	Panel 5V SW	When Q46'base gose Hi, PANEL 5V is out.
Q47~52	Pre-out mute SW	When a base gose Hi, Pre-out is muted.
Q56,57	AC-out mute SW	When a base gose Hi, AC-out is muted.
Q58,59	Sub-out mute SW	When a base gose Hi, Sub-out is muted.
Q60	Level meter mute SW	When a base gose Hi, Level meter is muted.

MICROCOMPUTER'S TERMINAL DESCRIPTION

● SYSTEM MICROCOMPUTER : 30624MGPA27GP (X34 : IC1)

Pin No.	Pin Name	Module	I/O	Application	Truth Value Table	Processing Operation Description
1~4	NC		O	Not used		Output : L
5	OPEL_REMO	EXTRA	I	External display remote control input		Not used
6	BYTE		-			0V GND direct connection
7	CNVSS		I	Used when writing to system μcom		Pull down
8	XCIN		I	Sub clock input (32.768kHz)		
9	XCOUT		I	Sub clock output (32.768kHz)		
10	RESET		-	Reset terminal		L : Reset
11	XOUT		-	Main clock output (16.0MHz)		
12	VSS		-			
13	XIN		-	Main clock input (16.0MHz)		
14	VCC1		-			
15	NMI		I	Not used		
16	ES_SW	EXTRA	O	Not used		
17	NC		I	Not used		
18	LX_REQ_S	LX_M	I	Communication request from slave unit		
19	PON_AM	TUNER	O	AM power supply control		AM operation : H, Non-AM operation : L
20	MUTE_LEVEL	EXTRA	O	LEVEL_METER MUTE terminal		Mute ON : H, Mute OFF : L
21	TUN_IFC_OUT	TUNER	I	F/E IFC OUT input terminal		H : Station detect, L : No detect
22	RDS_AFS_L	TUNER	I/O	Constant switching at noise detect	④	Refer to truth value table.
23	RDS_AFS_M	TUNER	I/O	Constant switching at noise detect	④	Refer to truth value table.
24,25	NC		I	Not used		
26	PWIC_BEEP	PWIC	O	Beep output		
27	TUN_SCL	TUNER	I/O	F/E I2C clock output terminal		(MAX 400kHz)
28	TUN_SDA	TUNER	I/O	F/E I2C data input/output terminal		
29	PAN_DATA	to PANEL	I/O	Between-panel communication (Bi-directional)		
30	PAN_CLK	to PANEL	I/O	Between-panel communication clock		
31	PAN_SCREQ	to PANEL	I/O	Between-panel communication request termnal (Used also for PN_DET)		
32	PAN_PNREQ	to PANEL	I	Between-panel communication request terminal		
33	AUD_SDA	AUDIO	I/O	E-VOL I2C data input/output terminal		
	IC5_SDA	AUDIO	I/O	IC5 data output terminal		
	CD_SDA	CD	I/O	CD mechanism I2C data input/output terminal		
34	AUD_SCL	AUDIO	I/O	E-VOL I2C clock output terminal		
	IC5_SCL	AUDIO	I/O	IC5 clock output terminal		
	CD_SCL	CD	I/O	CD mechanism I2C clock output terminal		
35	PON_PAN	Power supply	I/O	Panel 5V control terminal		ON : H, Momentary power down, Panel come off and 11 minutes after ACC_OFF : Hi-Z

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module	I/O	Application	Truth Value Table	Processing Operation Description
36	DSI	EXTRA	I/O	(D) SI control terminal		OFF : Hi-Z, Panel come off : Pulse driven, ILL_ON and OPEN (Power_ON) : H
37	PM_MOT1	P-MECHA	O	Panel motor control 1	②	Refer to truth value table.
38	PM_MOT2	P-MECHA	O	Panel motor control 2	②	Refer to truth value table.
39	EPM		I	FLASH EPM input terminal		
40	PM_OPEN	P-MECHA	I	Panel full open detect	③	Refer to truth value table.
41	PM_CLOSE	P-MECHA	I	Panel mechanism close detect	③	Refer to truth value table.
42	PAN_RST	to PANEL	O	Panel μcom reset output		Normal : H, Reset, Momentary power down, Panel is detached and 11 minutes after ACC_OFF : L
43	PM_DET	P-MECHA	I	Panel mechanism detect		H : Function check
44	SC_CON	to PANEL	O	Between panel Communication control (FLASH CE)		POWER OFF, ACC OFF : L
45	CD_DISC12_SW	CD	I	CD detect terminal (12cm)		
46	CD_LOS_SW	CD	I	CD loading detect terminal		
47	CD_MUTE_R	CD	I	CD MUTE (Rch) request terminal		L : Rch mute request
48	CD_MUTE_L	CD	I	CD MUTE (Lch) request terminal		L : Lch mute request
49	CD_MRST	CD	O	CD mechanism μcom RST terminal		H : Normal, L : Reset
50	CD_MSTOP	CD	O	CD mechanism μcom stop terminal		H : Mechanism μcom operation, L : Mechanism μcom stop
51	CD_DISC8_SW	CD	I	CD detect terminal (8cm)		
52	CD_LOE_LIM_SW	CD	I	CD detect terminal (chucking SW)		H : Loading complete, L : No disk
53	CD_LOEJ	CD	I/O	CD motor control terminal	⑧	Refer to truth value table.
54	CD_MOTOR	CD	O	CD motor control terminal	⑧	Refer to truth value table.
55	TUN_TYPE1	TUNER	I	Destination setting 1	⑤	Refer to truth value table.
56	TUN_TYPE0	TUNER	I	Destination setting 0	⑤	Refer to truth value table.
57	PON_ILL	Power supply	I/O	Key ILL power supply control		ON : H, OFF : Hi-Z
58	PON_CD	CD	O	CD WMA power supply control terminal		CD : L, Other than CD : H, When RESET, quicker than M-STOP L, Normal CD : NC
59	PON	Power supply	I/O	Power supply control		Power ON : H, Power OFF : Hi-Z
60	VCC2		-			
61	COR_DET	TYPE	I	E2PROM write request		H : Write
62	VSS		-			
63~65	TYPE_0~TYPE_2	TYPE	I	Destination switching	⑥	Refer to truth value table.
66,67	NC		O	Not used		Output : L
68	OPEL_DATA	EXTRA	I/O	External display DATA		Not used
69	OPEL_CLK	EXTRA	I/O	External display CLK		Not used
70	OPEL_CE	EXTRA	I/O	External display control request		Not used
71	EXT_CONT	EXTRA	O	External amp control		
72	P_CON	Power supply	I/O	External amp control terminal		Power ON : H, Power OFF : Hi-Z, All OFF : Hi-Z

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module	I/O	Application	Truth Value Table	Processing Operation Description
73	ANT_CONT	TUNER	O	Power antenna control		Tuner ON : H
74	ILLMI_DET	EXTRA	I	Dimmer ILL detect		L : ON, H : OFF
75	BU_DET	Power supply	I	Momentary power down detect		BU detect : L, BU no detect and Momentary power down : H
76	ACC_DET	Power supply	I	ACC Power supply detect		ACC detect : L, ACC no detect : H
77	(PWIC_SVR)	PWIC	O	SVR electrical discharge circuit		Power OFF and Momentary power down, for 5s : H and then L
78	PWIC_MUTE	PWIC	O	Power IC MUTE terminal		All OFF and Momentary power down : L, TEL mute : L
79	PWIC_STBY	PWIC	O	Power IC standby control		Power ON : H, Power OFF : L
80	LX_CON	LX_M	O	Startup request to slave unit		H : Slave unit ON, L : Slave unit OFF
81	RESET2		O	MUTE terminal for reset		Output : L
82	MUTE	AUDIO	O	MUTE terminal		ON : H, OFF : L
83	MUTE_ACOUT	AUDIO	I/O	IC2 ACOUT MUTE		Muting of CD, MD and LXBUS
84	MUTE_SUBOUT	AUDIO	I/O	IC2 SUBOUT MUTE		Muting of CD, MD and LXBUS in 2 zones
85	MUTE_PRE_R	AUDIO	I/O	PRE_OUT MUTE Rch		M MUTE R is L : L (CD), Momentary power down : L, Only in 2 zones and NAVI interruption, Hi-Z fixed.
86	MUTE_PRE_L	AUDIO	I/O	PRE_OUT MUTE Lch		M MUTE R is L : L (CD), Momentary power down : L, Only in 2 zones and NAVI interruption, Hi-Z fixed.
87	LINE_MUTE	EXTRA	I	Line MUTE detect		TEL mute : 1V or less, NAVI mute : 2.5V or more, 1V or less and 2.5V or more : NAVI mute (J-type)
88	NC		O	Not used		Output : L
89	PWIC_DC_DET	PWIC	I	DC offset detect terminal		
90	LX_RST	LX_M	O	Hard reset to slave unit		H : Reset, L : Normal
91	LX_MUTE	LX_M	I	Mute request from slave unit		H : Mute ON, L : Mute OFF
92	LX_REQ_M	LX_M	O	Communication request to slave unit		
93	RDS_NOISE	TUNER	I	FM noise detect terminal		
94	AVSS		-			
95	TUN_SMETER	TUNER	I	S-meter input		
96	VREF		I	Analog reference potential		PON is input
97	AVCC		-			
98	LX_DATA_S	LX_M	I	Data from slave unit		
99	LX_DATA_M	LX_M	O	Data to slave unit		
100	LX_CLK	LX_M	I/O	LX BUS clock		

MICROCOMPUTER'S TERMINAL DESCRIPTION

● Truth Value Table

② Panel Motor Control

	OPEN	CLOSE	STOP	WAIT
PM_MOT1	L	H	H	L
PM_MOT2	H	L	H	L

③ Panel Mechanism Control

	FULL_OPEN	FULL_CLOSE	OTHER
PM_OPEN	H	L	L
PM_CLOSE	H	L	H

④ AFS Control

	RDS_AFS_M	RDS_AFS_L	Condition
AFS LOW	L	L	No sound output in AF search
AFS MID	L	Hi-Z	Sound output in AF search
AFS HIGH	Hi-Z	Hi-Z	Normal Reception

⑤ Tuner Type

	TUN_TYPE1 (55 pin)	TUN_TYPE0 (56 pin)
Market Model	L	L
OEM Model 1	L	H
OEM Model 2	H	L
OEM Model 3	H	H

⑥ 30624MGPA27GP

TYPE_2 (65 pin)	TYPE_1 (64 pin)	TYPE_0 (63 pin)	Model Name		Media
0	0	0	KDC-MP625	K	WMA/MP3
0	0	1	KDC-W6527/Y	E	WMA/MP3
0	1	0	KDC-X679	K	WMA/MP3
0	1	1	KDC-MP858	M	WMA/MP3
1	0	0	f-CD07	J	WMA/MP3
1	0	1	KDC-MP6025	K	WMA/MP3
1	1	0	KMD-6527	E	MD
1	1	1	f-MD07	J	MD

⑧ CD_MOTOR, CD_LOEJ

	CD_MOTOR	CD_LOEJ
Stop	L	Hi-z
Load	H	L
Eject	H	H
Brake	H	Hi-z
Use Prohibited	L	L

MICROCOMPUTER'S TERMINAL DESCRIPTION

● PANEL MICROCOMPUTER : 30622MWP111GP (X16-251 : IC1)

Pin No.	Pin Name	Module	I/O	Application	Processing Operation Description
1	NC		O	Not used	Output : L
2	REMO	REMO	I	Remote control signal input	Pulse width DET
3	GSO0	FL	O	FL dot section data output terminal 0	Data output
4	NC		O	Not used	Output : L
5	GCLK0	FL	O	FL dot section clock output terminal 0	2.0MHz
6	BYTE	µcom	-	Not used	0V GND direct connection
7	CNVSS	µcom	-	Used when rewriting µcom	
8,9	NC		O	Not used	Output : L
10	RESET	µcom	-	Reset terminal	L : Reset
11	XOUT	µcom	-	Clock output	
12	VSS	µcom	-	GND terminal	
13	XIN	µcom	-	Clock input	10.000MHz
14	VCC1	µcom	-	Positive power supply terminal	
15	NMI		I	Not used	
16	SOURCE	KEY	I	Source key input	H : ON, L : OFF
17	EJECT	KEY	I	Eject key input	H : ON, L : OFF
18	SCCON	to SYS	I	System µcom communication panel operation control	H : Operation
19	NC		O	Not used	Output : L
20	GCP	FL	O	FL dot section gradation occurrence	Gradation occurrence
21	NC		O	Not used	Output : L
22	GLAT	FL	O	FL dot section data latch output	Data latch output
23	NC		O	Not used	Output : L
24	GBK	FL	O	FL dot section data blanking output	H : Light ON, L : Light OFF
25,26	NC		O	Not used	Output : L
27	SCL		O	E2PROM write clock terminal	When E2P_DET is H : Input, Other : I2C clock output terminal
28	SDA		O	E2PROM write terminal	When E2P_DET is H : Input, Other : I2C data output terminal
29	PN_SDA	to SYS	I/O	System µcom communication data input/output terminal	
30	PN_SCL	to SYS	I/O	System µcom communication clock input/output terminal	100kHz
31	SC_REQ	to SYS	I	Panel communication request input	
32	PN_REQ	to SYS	O	Panel communication request output	L : Transmitting panel side data
33	GSO1	FL	O	FL dot section data output terminal 1	Data output
34	NC		O	Not used	Output : L
35	GCLK1	FL	I	FL dot section clock input terminal	GCLK0 input
36	E2P_DET		I	E2PROM write request	H : Write
37,38	NC		O	Not used	Output : L
39	EPM		I	Used when rewriting µcom	
40~43	NC		O	Not used	Output : L

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module	I/O	Application	Processing Operation Description
44	CE		I	Used when rewriting μcom	
45~49	NC		O	Not used	Output : L
50	PON_DC_DC	Power supply	I/O	DC/DC control terminal	H : FL+B ON, Hi-Z : FL+B OFF
51	BLUE_LED	Power supply	I/O	ILL BLUE ON/OFF	Hi-Z : Light OFF, L : Light ON
52	NC		O	Not used	Output : L
53	PON	Power supply	I/O	Power supply control terminal	L : ON, Hi-Z : OFF
54	FL_VDD_ON	Power supply	O	FL3.3V Power supply control request	H : ON
55~59	NC		O	Not used	Output : L
60	VCC2	μcom	-	Positive power supply terminal	
61	NC		O	Not used	Output : L
62	VSS	μcom	-	GND terminal	
63~72	NC		O	Not used	Output : L
73	ATT_KEY	KEY	I	ATT key input	H : OFF, L : ON
74	VOL_A	KEY	I	VOL key input	Pulse width DET
75	VOL_B	KEY	I	VOL key input	Pulse width DET
76,77	NC		O	Not used	Output : L
78	RED_LED	Power supply	I/O	ILL RED ON/OFF	Hi-Z : Light OFF, L : Light ON
79	GREEN_LED	Power supply	I/O	ILL_GREEN ON/OFF	Hi-Z : Light OFF, L : Light ON
80	TRIANGLE_LED	Power supply	O	ILL TRIANGLE ON/OFF	L : Light OFF, H : Light ON
81,82	NC		O	Not used	Output : L
83	KS3	KEY	I/O	Key scan output 3	Output Low, Hi-Z switching
84	KS2	KEY	I/O	Key scan output 2	Output Low, Hi-Z switching
85	KS1	KEY	I/O	Key scan output 1	Output Low, Hi-Z switching
86	KS0	KEY	I/O	Key scan output 0	Output Low, Hi-Z switching
87	KR3	KEY	I	Key return input 3	
88	KR2	KEY	I	Key return input 2	
89	KR1	KEY	I	Key return input 1	
90	KR0	KEY	I	Key return input 0	
91	NC		O	Not used	Output : L
92	LEVEL_METER	EXTRA	I	LEVEL_METER input terminal	
93	NC		O	Not used	Output : L
94	AVSS	μcom	-	GND terminal	
95	VREF_CONT	μcom	O	VREF control terminal	H : ON
96	VREF	μcom	I	Analog reference voltage	
97	AVCC	μcom	-	Positive power supply terminal	
98~100	NC		O	Not used	Output : L

TEST MODE

● How to enter the Test Mode

Reset while pressing both [1] key and [3] key.

● How to release the Test Mode

The Test Mode can be released by resetting. The Test Mode is also released when there are: a momentary power down, Acc OFF, power OFF, and panel detachment.

● Initial condition of the Test Mode

The following are initial conditions of the Test Mode:

- The source in standby mode.
- The displays all lit up.
- Volume is -10dB (display will be 30).
- LOUD is OFF.
- CRSC is OFF regardless of whether the switching function is effective or not.
- SYSTEM Q is in NATURAL.
- SRS WOW are all OFF.
- BEEP will be a short one at all times.
- AUX is ON.
- SYSTEM Q on the MENU is OFF.
- GUIDE (NAVI) on the MENU is ATT.
- DISPLAY TYPE is TYPE A.

● RDS Automatic Measurement

Conventionally, the visual inspection on the PS display has been conducted on the production line. From now on, a measure will be added to replace this.

PS data is received and the PS contents is confirmed to be "RDS_TEST", the P-CON terminal is forced to go OFF. ("_" means blank.)

This is a measure specific for the Test Mode.

P-CON is recovered by switching the source or by power OFF→ON.

● Special Display in the TUNER Mode

In the TUNER mode, there are abnormalities in the front end, etc. when the following displays are made.

- "TNE2P_NG": E2PROM is still in the initial value (unspecified value) due to F/E being shipped without going through the adjustment process or other reasons.
- "TNCON_NG": There is no communication with the F/E.

● Forced Switching of K3I

In TUNER mode, every time the [6] key is pressed, the following takes place: AUTO → Forced WIDE → Forced MIDDLE → Forced NARROW → AUTO. The initial condition is AUTO and there will be the following displays:

- AUTO : FMA
- Forced WIDE : FMW
- Forced MIDDLE : FMM
- Forced NARROW : FMN

Note : In synchronization with the above changes, numbers 1 through 3 are displayed but these are to be ignored.

● CD Receiver Test Mode Specifications

- With ▶▶I key, there will be jumps to the following tracks: No. 9 → No. 15 → No. 10 → No. 11 → No. 12 → No. 13 → No. 22 → No. 14 → No. 9 (Back to the beginning)
  However, when playing MP3/WMA disks with 8 files or less, tracks will be played in sequence as usually, beginning with Track1.
- When I◀◀ key is pressed, the previous track from the current one will be played.
- While playing from CD sources, when [1] key is pressed intermittently, there will be a jump to No. 28.
- With models that have MP3 or MP3/WMA mechanism, the model name and version will be displayed in the lower column.
- When [6] key is pressed, there will be a jump to No. 15. When this takes place, the value is set to 29 (eXcelon model) or 26 (other models).

TEST MODE

● Audio Related Matters

- When [Q] key is pressed intermittently, audio adjust mode is entered.
- With [✻] key on the remote controller, audio adjust mode is entered.
- The initial item is Fader.
- Continuous feed with the remote controller is prohibited.
- The Bass/Middle/Treble levels are adjusted using ⏮ / ⏭ keys on three levels: -8 ↔ 0 ↔ +8. (Initial value: 0)
- Balance is adjusted using ⏮ / ⏭ keys on three levels: L15 ↔ 0 ↔ R15. (Initial value: 0)
- Fader is adjusted using ⏮ / ⏭ keys on three levels: R15 ↔ 0 ↔ F15. (Initial value: 0)
- Sub Woofer level is adjusted using ⏮ / ⏭ keys on three levels: -15 ↔ 0 ↔ +15. (Initial value: 0)
- Volume Offset is adjusted using ⏮ / ⏭ keys on two levels: -8 ↔ 0. (Initial value: 0)
- HPF is adjusted using ⏮ / ⏭ keys on two levels: Through ↔ 170Hz (or 220Hz). (Initial value: Through)
- LPF is adjusted using ⏮ / ⏭ keys on two levels: 50Hz ↔ Through. (Initial value: Through)
- Bass f / Bass Q / Bass EXT / Middle f / Middle Q / Treble f is not displayed on Audio Adjust.
- [WOW] key feeding works in the following order: ① → ② → ③ → ④ → ⑤ → ⑥ → ①

Order	Value Setting			Display
	TruBass	FOCUS	SRS 3D	
①	OFF	OFF	OFF	SRS WOW OFF
②	ON	OFF	OFF	SRS TruBass ON
③	OFF	Low	OFF	FOCUS LOW
④	OFF	High	OFF	FOCUS HIGH
⑤	OFF	OFF	ON	SRS 3D ON
⑥	ON	High	ON	SRS WOW HIGH

● MENU Related Matters

- When [MENU] key is pressed intermittently, MENU is entered.
- Using [DNPP/SBF] key on the remote controller, MENU is entered.
- Continuous feed with the remote controller is prohibited.

● Backup Current Measurement

When reset in the Acc OFF (Back Up ON) condition, MUTE terminal goes off in 2 seconds instead of 15 seconds. (When this takes place, CD/MD mechanisms will not be in operation.)

● Special Display when All Lamps are Lighted Up

When all lamps are lighted up during STANDBY, the following displays will be made by pressing the pre-set key.

[1] key	Version Display (Display) SYS_x.xx PAN_x.xx
[2] key	Serial number display (8 digits) (Display) SNo_xxxxxxxx
[3] key	Single Push: Displays Power ON time During Power ON time display, pressing the key two (2) seconds will clear Power ON time. (Display) PonTim_0xxxxx MAX 65535 (Hours)
[4] key	Single Push: Hours CD/MD in operation. During CD/MD operation time display, pressing the key two (2) seconds will clear CD/MD operation time. (Display) CDTim_0xxxxx / MDTim_0xxxxx MAX 65535 (Hours)
[5] key	Single Push: Number of CD/MD EJECT times will be displayed. During CD/MD EJECT time display, pressing the key two (2) seconds will clear CD/MD EJECT times. (Display) EjeCnt__0xxxxx MAX 65535 (Times)
[6] key	Single Push: Number of PANEL open/close times (*1) During PANEL open/close times display, pressing the key two (2) seconds will clear PANEL open/close times. (Display) PnCnt_xxxxxx MAX 65535 (Times)
[FM] key	ROM Correction Version Display (Display) SYS_ROM_Rxxx When N/A: SYS_ROM_R – – – (Display) PAN_ROM_Rxxx When N/A: PAN_ROM_R – – –
⏭ key	AUDIO data initial value setting (Display) AUDIO_INIT

*1 : One count is made when panel is full open or at disc loading.

TEST MODE

● Initializing AUDIO Related Value Settings

During STANDBY, by pressing ►►I key intermittently, AUDIO setting values will reset to the default values of the Test Mode.

● Side Graphic Display (Level Meter)

In the Test Mode, regardless of the contents selected, the Side Graphic Display will be used as the dedicated display for making judgment on level input.

Normally, Side Display will be all off, when it is judged to be OK level with the FM standard input (1kHz/60dB), ">" and "<" will be displayed on both sides. (When it is judged to be NG, the display will remain all off.)

(OK level: E type (40k); 0.5~1.5V, For other than E type (75k); 1.5~3.5V)

● Others

- At Power ON, "CODE_OFF" and "CODE_ON" displays will not be made.
- When started up in the Test Mode, LINE MUTE prohibition time will be one second instead of ten.
- When in the Test Mode, security codes should not be written with the security jig.
- When in the Test Mode, serials should not be written with the security jig.
- When in the Test Mode, even if a DC error is detected, the detection information will not be written to the E2PROM.
- When in the Test Mode and, at the same time, PM_DET terminal is H, panel full open/close is achieved by intermittently pressing in the [EJECT] key, regardless of whether a disc is in the mechanism. (Protection time: 3 seconds) Whereas, ejection is achieved by pressing the [EJECT] key for one second.

● Clearing DC Error Detection Information (Clearing E2PROM data)

1. While pressing [3] key and [6] key, reset to enter the DC Error display mode.
2. In the display during STANDBY, the current DC Error condition is displayed.
   When error is detected: "DC_ERR"
   When error is not detected: "DC_OK"
3. While error condition is displayed, by pressing [AUTO] / [TI] / [WOW] keys intermittently, the detection information is cleared. (Clear E2PROM)
4. DC Error display mode is cleared by resetting. (The last display will not be maintained.)

● Frequency Spun Switching (K/M type)

While pressing [1] key and [5] key, turn power ON.

● Security

• Forced Power ON Mode (All models)

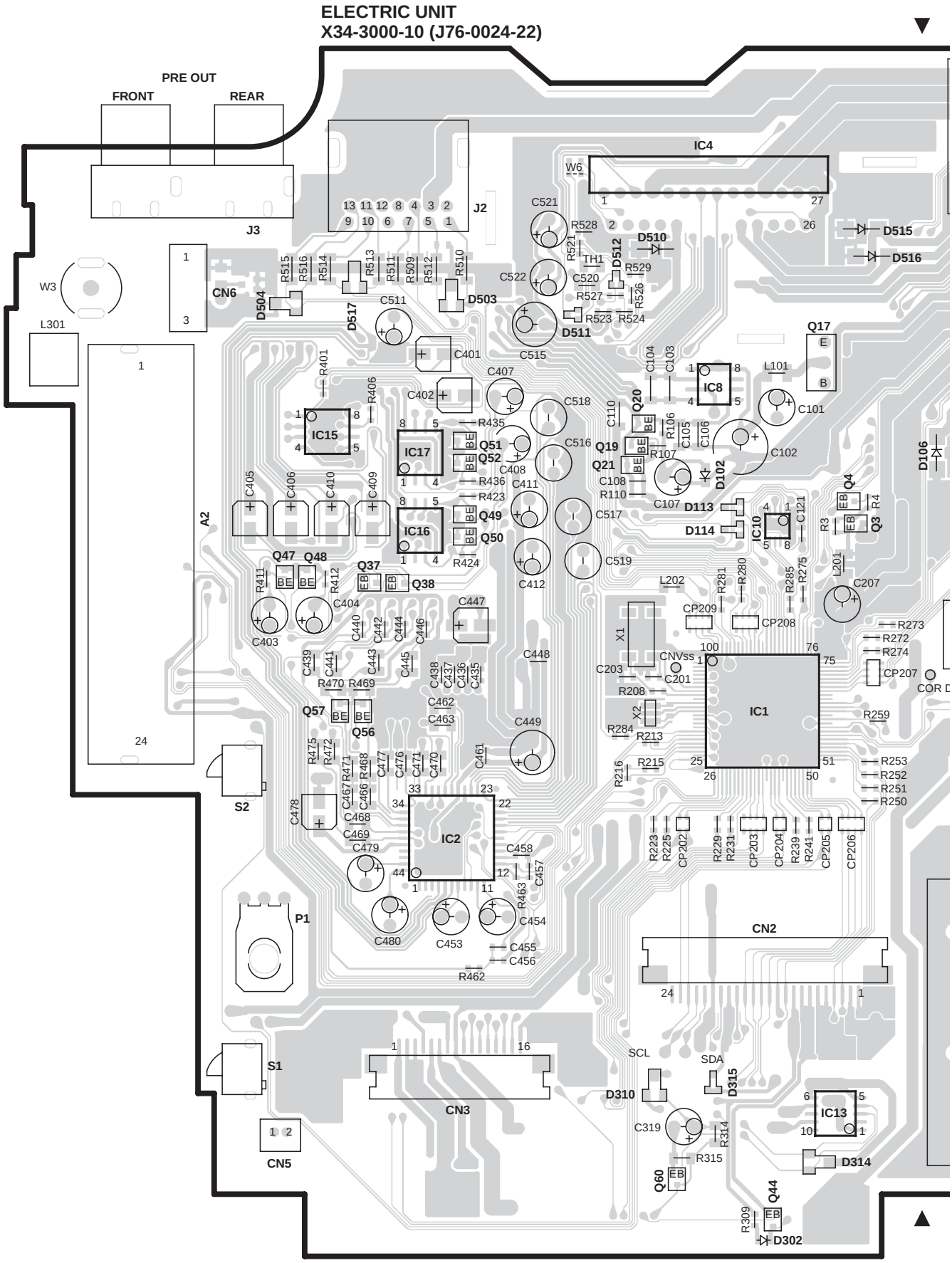
Even when the security is set, by resetting while pressing both [Q] key and [4] key, it is possible to turn the power on for 30 minutes only. Likewise, after the elapse of 30 minutes, the device must be reset to restart.

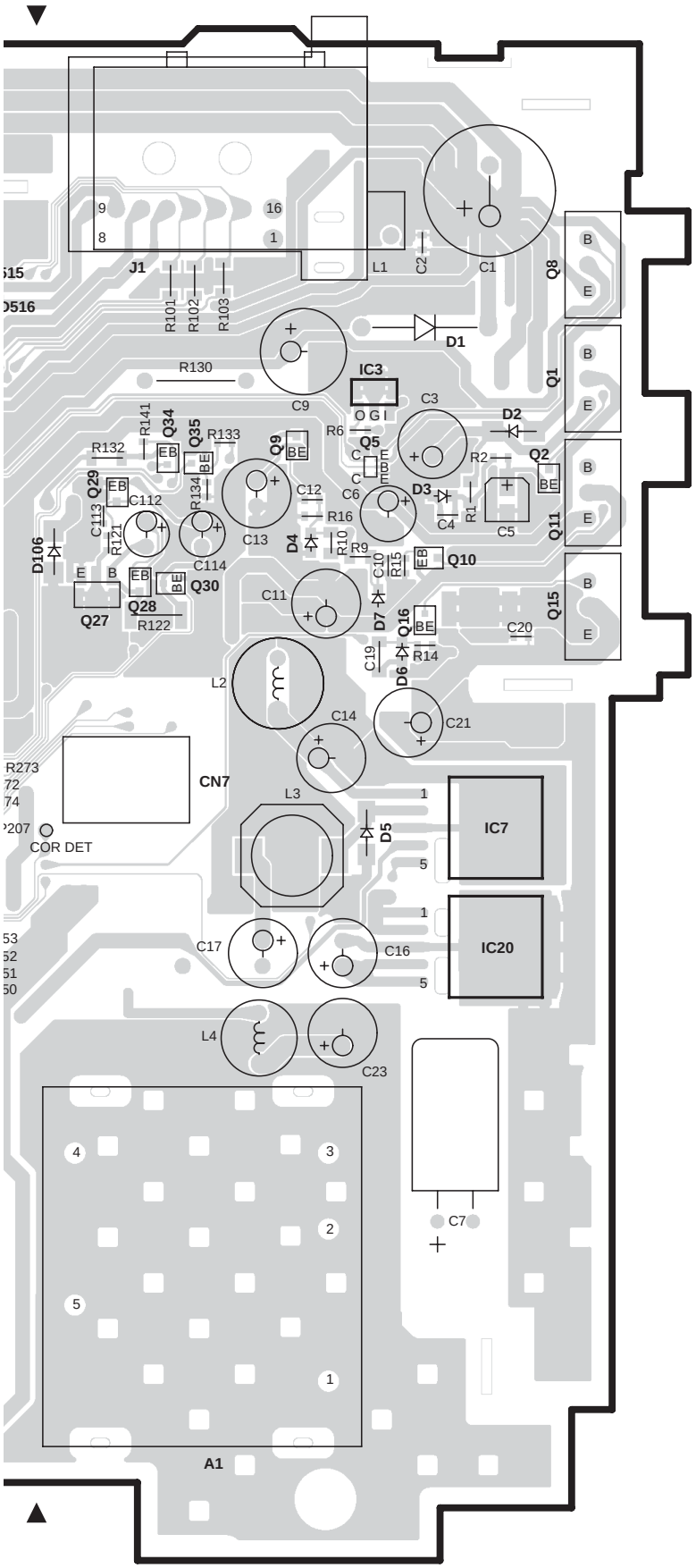
• Simplified Method to Clear Security Code

1. While in the Code Request mode, press ►►I key for three seconds while pressing the [AUTO] key. (---- display goes off.)
2. Input "KCAR", using the remote controller.
   Press [5] key twice, and then press ►►I key on the remote controller. (Enter "K".)
   Press [2] key three (3) times, and then press ►►I key. (Enter "C".)
   Press [2] key once, and then press ►►I key. (Enter "A".)
   Press [7] key twice, and then press ►►I key. (Enter "R".)
3. Then the security is cleared and the STANDBY mode is entered.
4. When a wrong code is entered, the Code Request mode is entered.

KDC-X679

PC BOARD (COMPONENT SIDE VIEW)





X34-3000-10

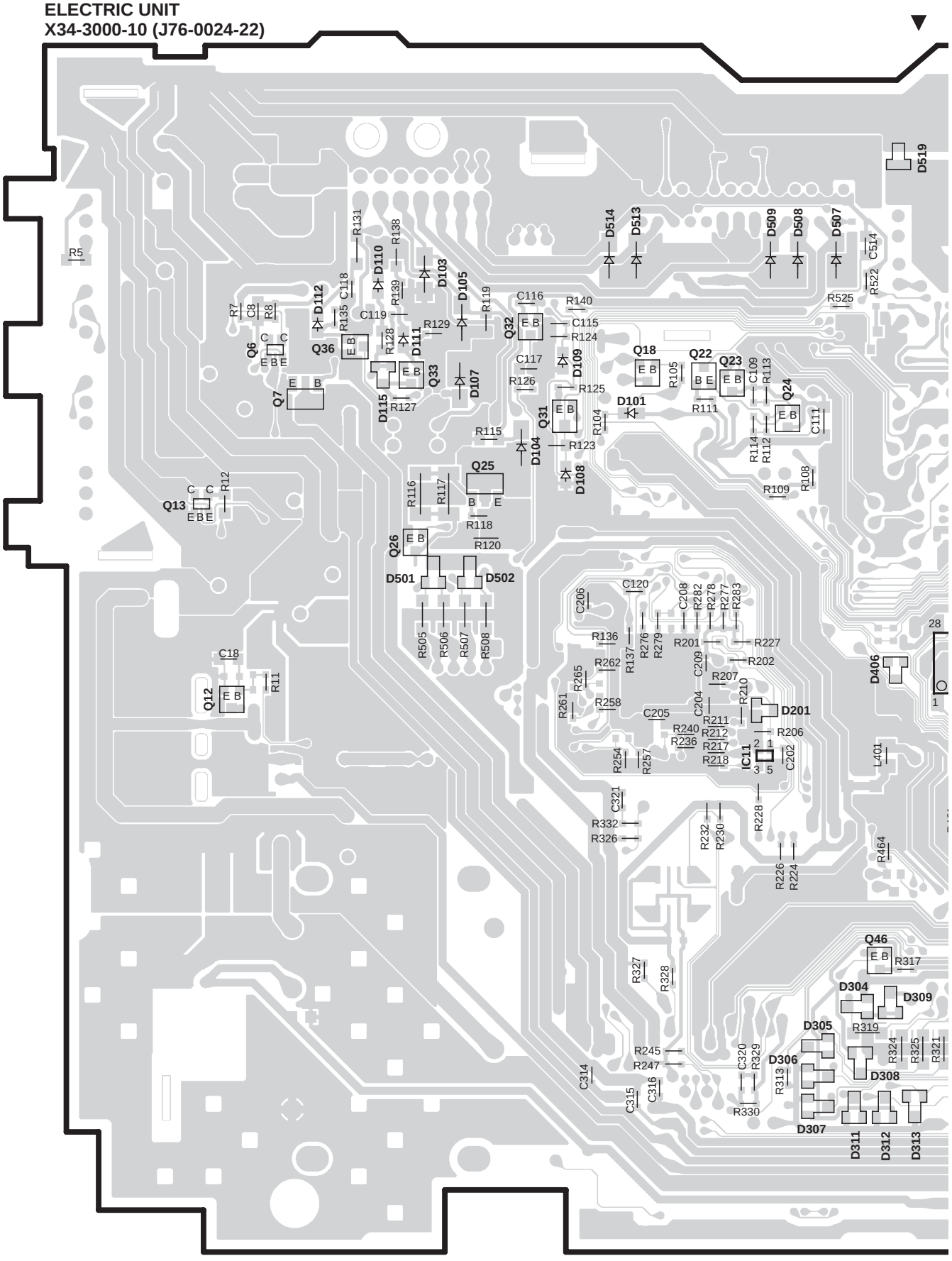
Ref. No.	Address
IC1	5E
IC2	5C
IC3	3G
IC4	2D
IC7	4G
IC8	3D
IC10	4E
IC13	6E
IC15	3C
IC16	4C
IC17	3C
IC20	5G
Q1	3H
Q2	3H
Q3	4E
Q4	4E
Q5	3G
Q8	2H
Q9	3G
Q10	3G
Q11	3H
Q15	4H
Q16	4G
Q17	3E
Q19	3D
Q20	3D
Q21	3D
Q27	4F
Q28	4F
Q29	3F
Q30	3F
Q34	3F
Q35	3F
Q37	4C
Q38	4C
Q44	7E
Q47	4B
Q48	4B
Q49	4C
Q50	4C
Q51	3C
Q52	3C
Q56	5C
Q57	5B
Q60	7D

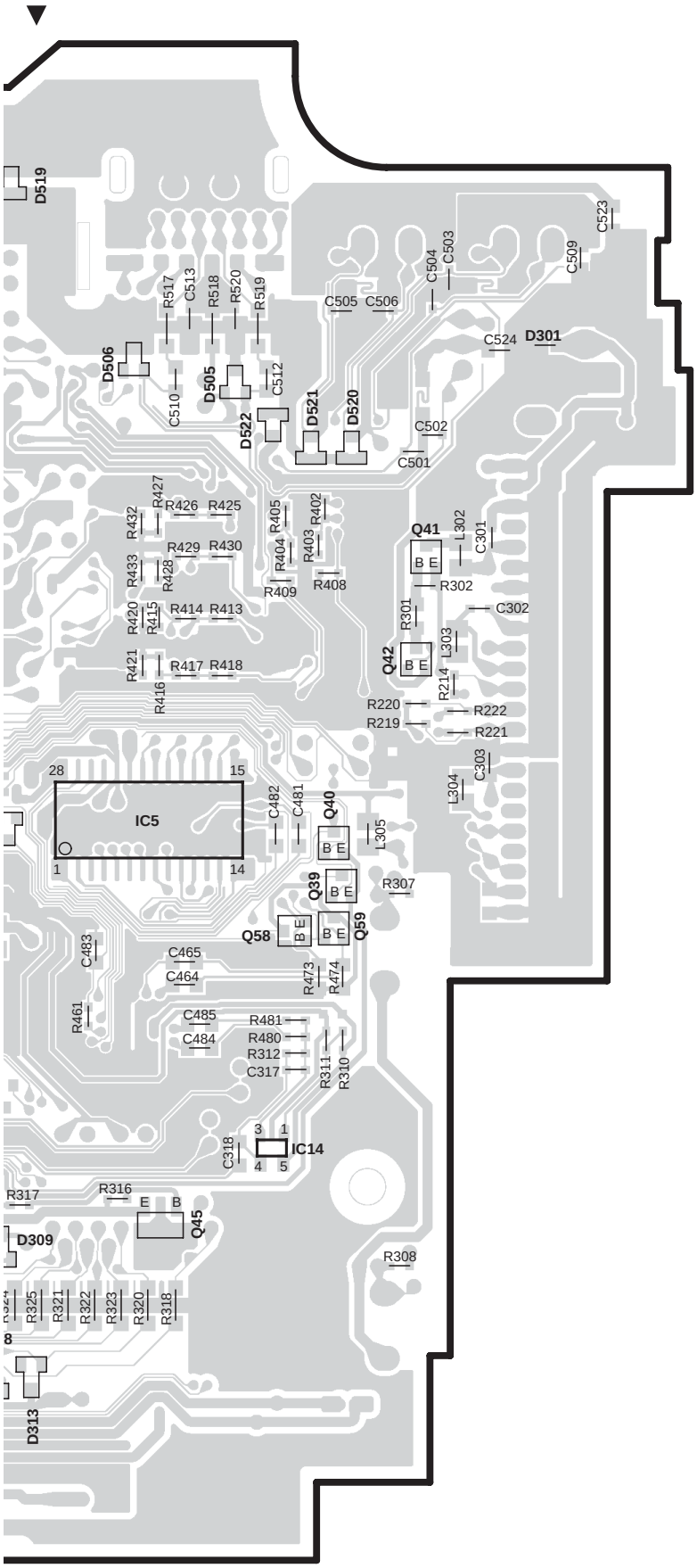
Refer to the schematic diagram for the values of resistors and capacitors.

KDC-X679

PC BOARD (FOIL SIDE VIEW)

ELECTRIC UNIT
X34-3000-10 (J76-0024-22)





X34-3000-10

Ref. No.	Address
IC5	4P
IC11	5O
IC14	6Q
Q6	3L
Q7	3L
Q12	5L
Q13	4L
Q18	3N
Q22	3N
Q23	3N
Q24	3O
Q25	3M
Q26	4M
Q31	3N
Q32	3M
Q33	3M
Q36	3M
Q39	5Q
Q40	4Q
Q41	3Q
Q42	4Q
Q45	6P
Q46	6O
Q58	5P
Q59	5Q

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

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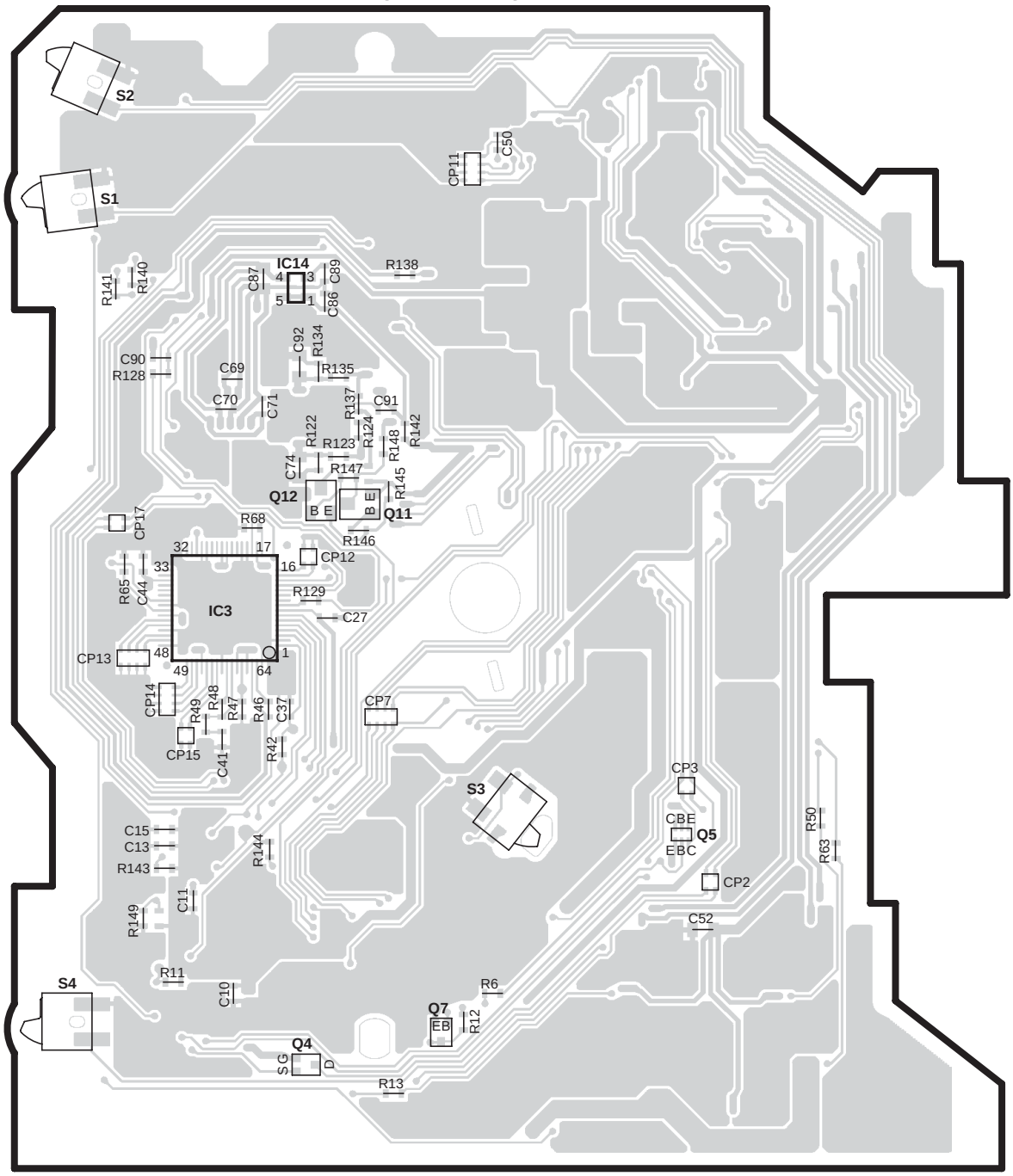
PC BOARD (COMPONENT SIDE VIEW)

CD PLAYER UNIT X32-5560-00 (J74-1599-12)



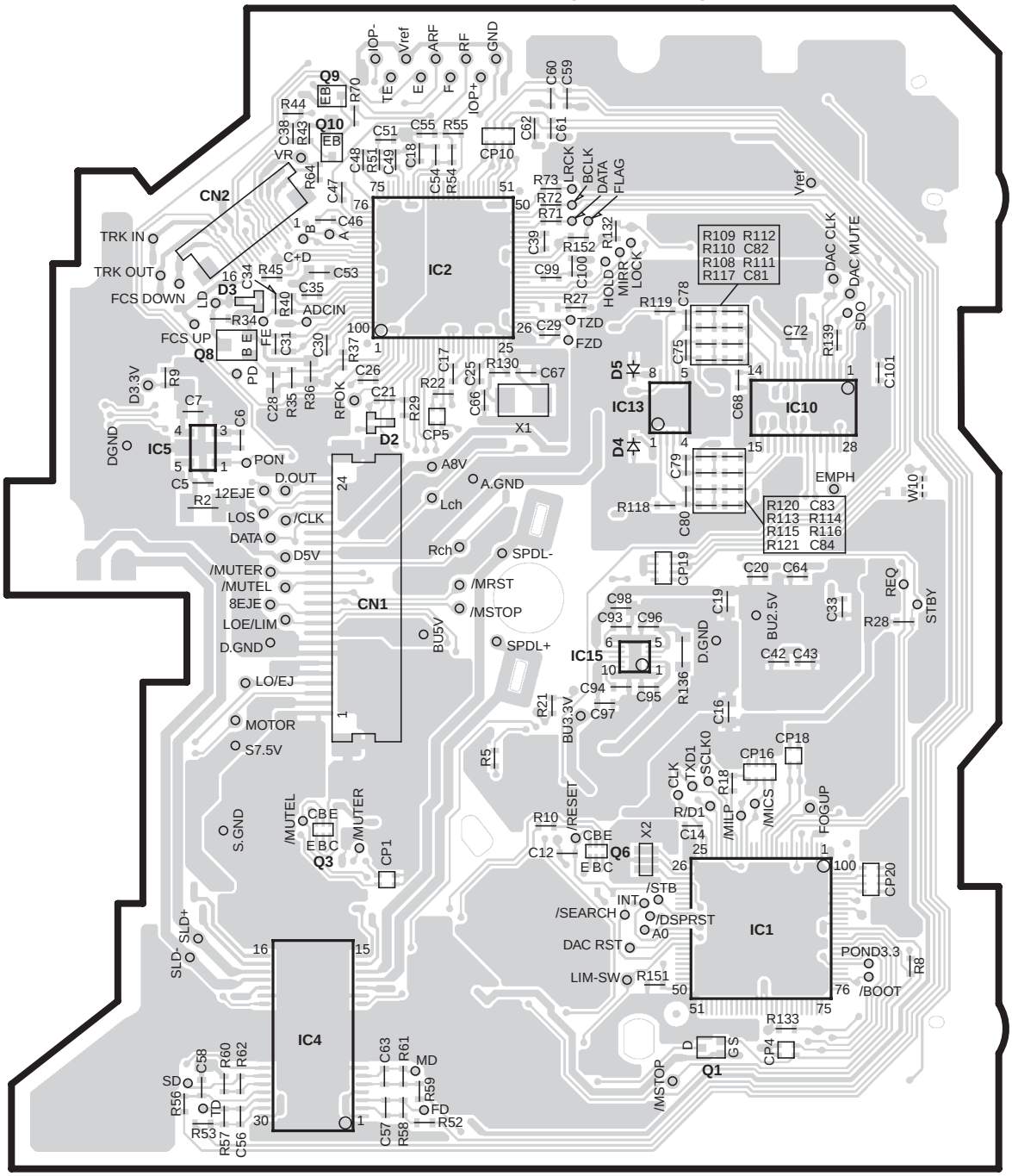
X32-5560-00

Ref. No.	Address
IC3	4V
IC14	2V
Q4	5V
Q5	5X
Q7	5W
Q11	3W
Q12	3V

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

PC BOARD (FOIL SIDE VIEW)

CD PLAYER UNIT X32-5560-00 (J74-1599-12)



X32-5560-00

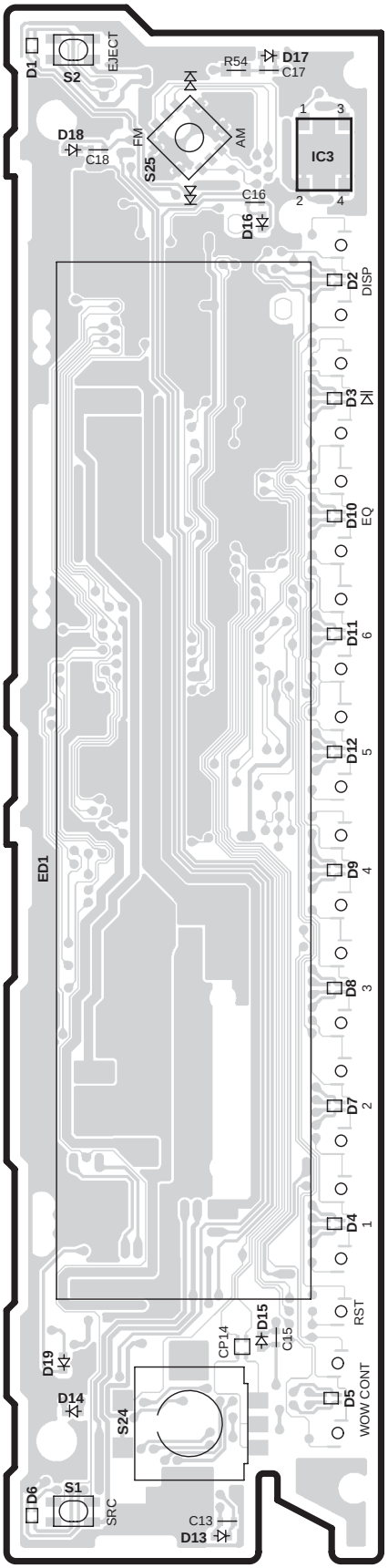
Ref. No.	Address	Ref. No.	Address
IC1	5AC	Q1	5AC
IC2	2AB	Q3	5AA
IC4	5AA	Q6	5AB
IC5	3Z	Q8	3AA
IC10	3AC	Q9	2AA
IC13	3AB	Q10	2AA
IC15	4AB		

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

KDC-X679

PC BOARD (COMPONENT SIDE VIEW)

SUB-CIRCUIT UNIT
X16-2510-10 (J76-0026-22)



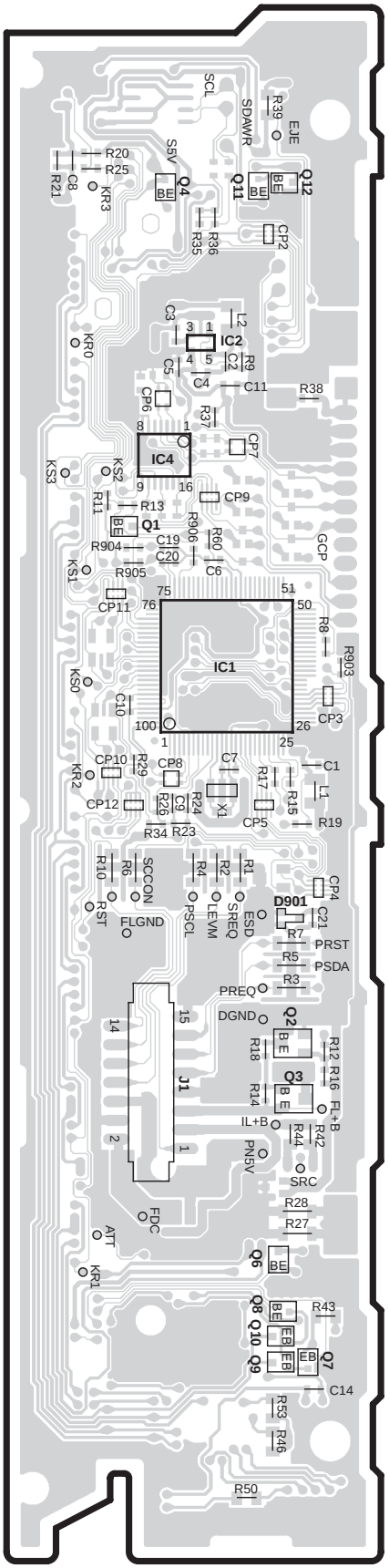
X16-2510-10

Ref. No.	Address
IC3	2AF

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

(FOIL SIDE VIEW)

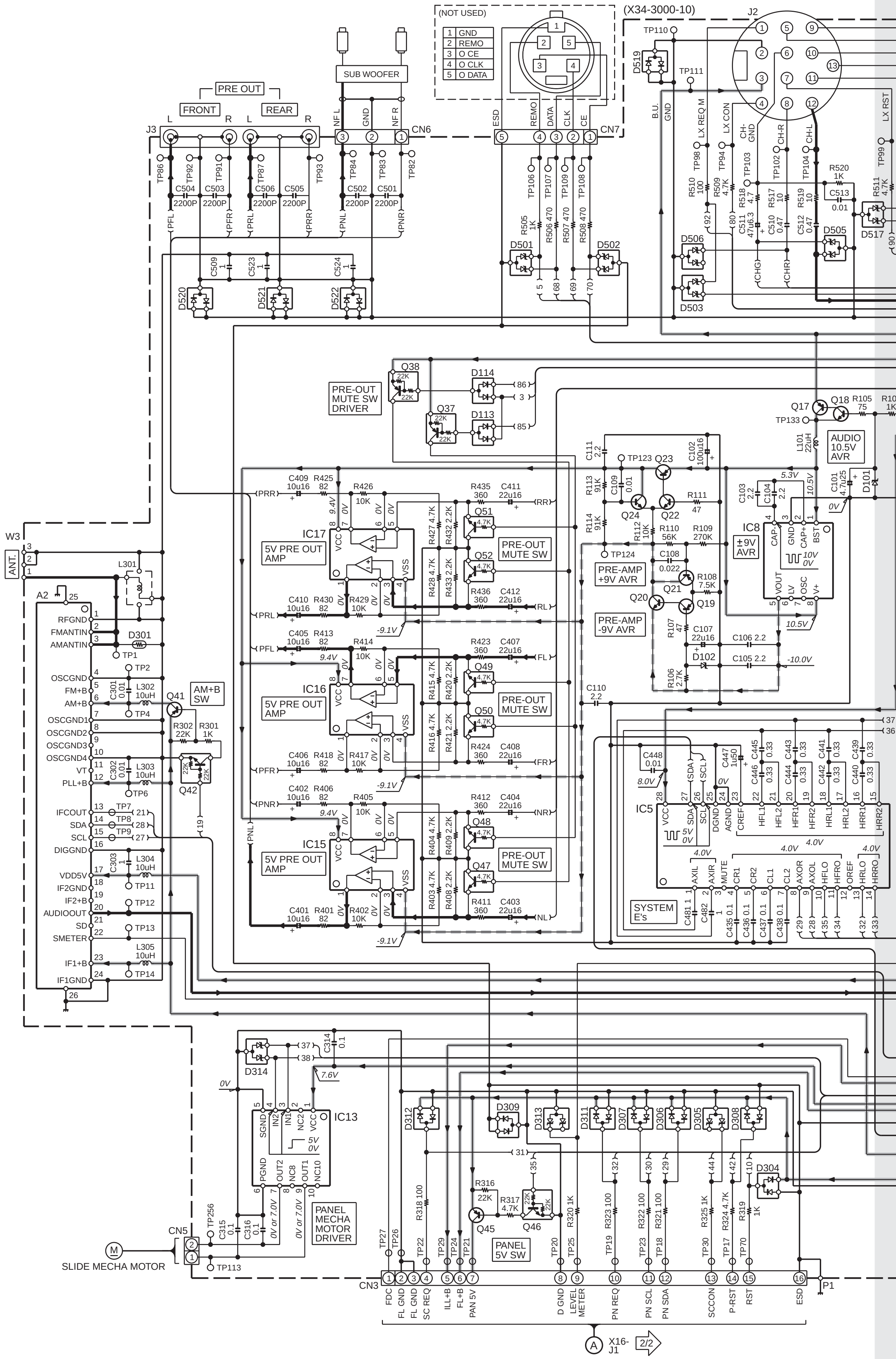
SUB-CIRCUIT UNIT
X16-2510-10 (J76-0026-22)



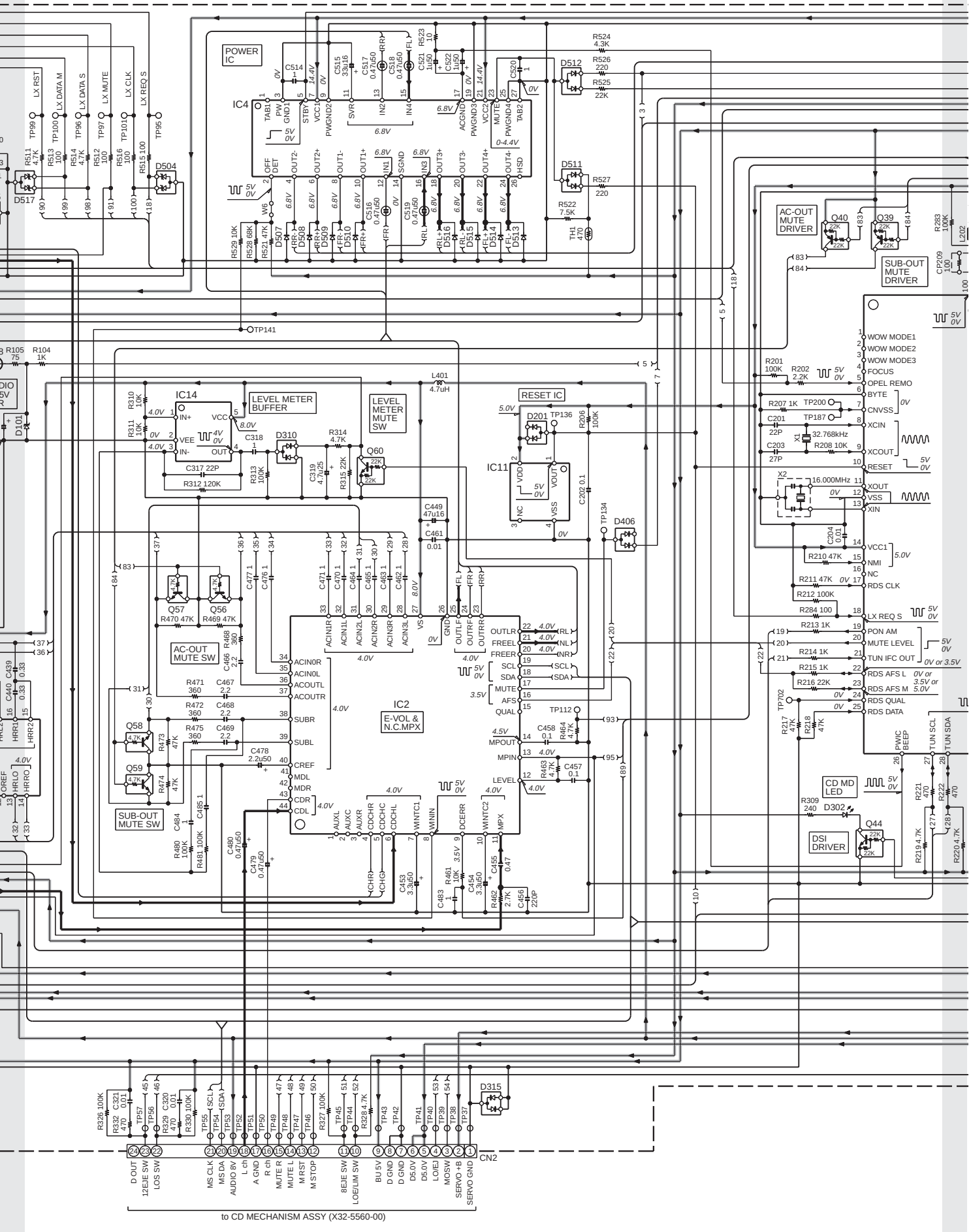
X16-2510-10

Ref. No.	Address
IC1	4AH
IC2	3AH
IC4	3AH
Q1	3AH
Q2	5AH
Q3	5AH
Q4	2AH
Q6	6AH
Q7	6AI
Q8	6AH
Q9	6AH
Q10	6AH
Q11	2AH
Q12	2AH

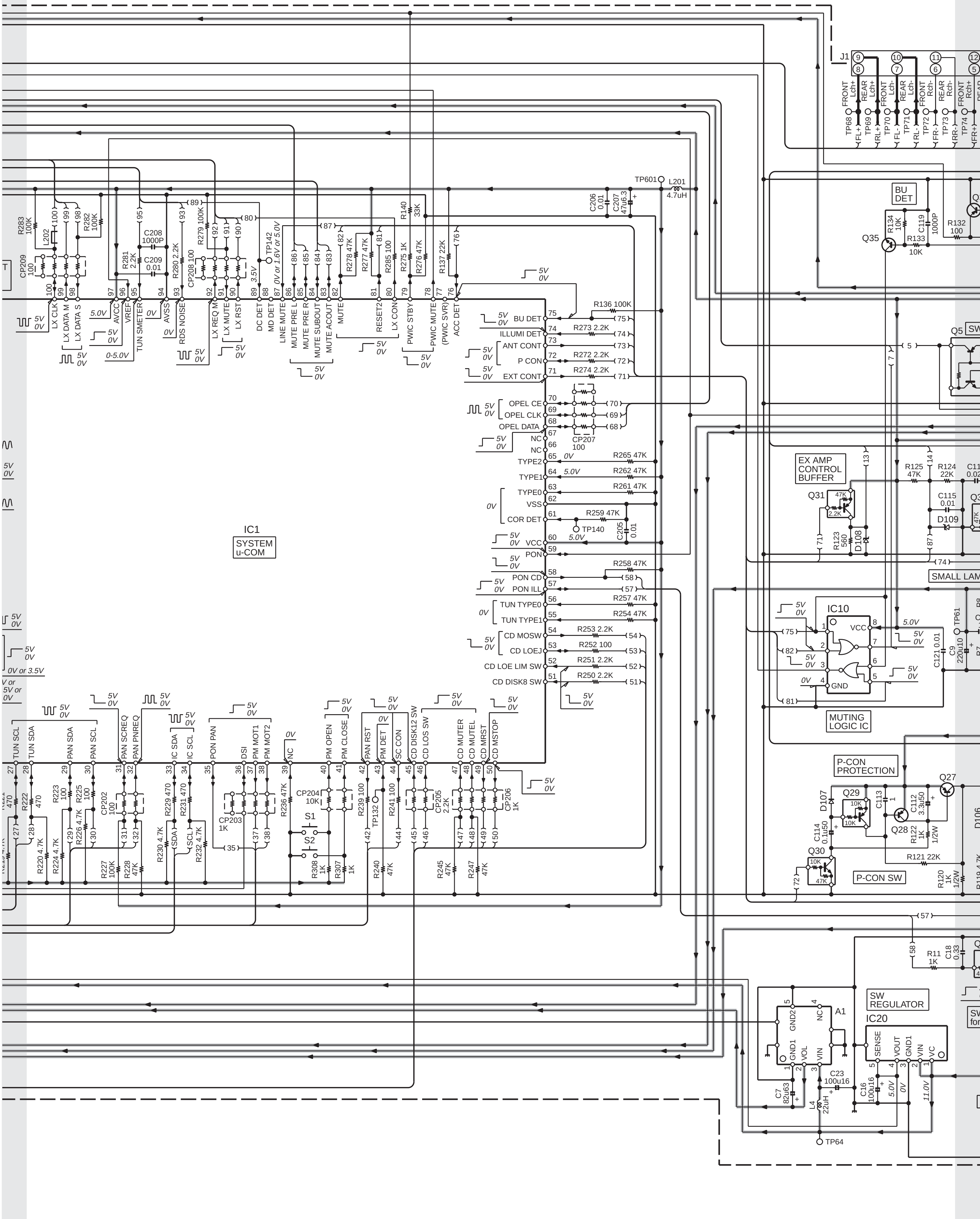
KDC-X679


(NOT USED)
1 GND
2 REMO
3 O CE
4 O CLK
5 O DATA
(X34-3000-10)
J2
SUB WOOFER
PRE OUT
FRONT
REAR
J3
CN6
CN7
PRE-OUT MUTE SW DRIVER
AUDIO 10.5V AVR
IC17
5V PRE OUT AMP
PRE-OUT MUTE SW
IC16
5V PRE OUT AMP
IC15
5V PRE OUT AMP
IC8
±9V AVR
PRE-AMP +9V AVR
PRE-AMP -9V AVR
IC5
SYSTEM E's
W3
ANT.
A2
RFGND
FMANTIN
AMANTIN
OSCGND
FM+B
AM+B
OSCGND1
OSCGND2
OSCGND3
OSCGND4
VT
PLL+B
IFCOUT
SDA
SCL
DIGGND
VDD5V
IF2GND
IF2+B
AUDIOOUT
SD
SMETER
IF1+B
IF1GND
AM+B SW
IC13
PANEL MECHA MOTOR DRIVER
PANEL 5V SW
CN5
SLIDE MECHA MOTOR
CN3
FDC
FL GND
FL GND
SC REQ
ILL+B
FL+B
PAN 5V
D GND
LEVEL METER
PN REQ
PN SCL
PN SDA
SCCON
P-RST
RST
ESD
P1
X16-J1
2/2

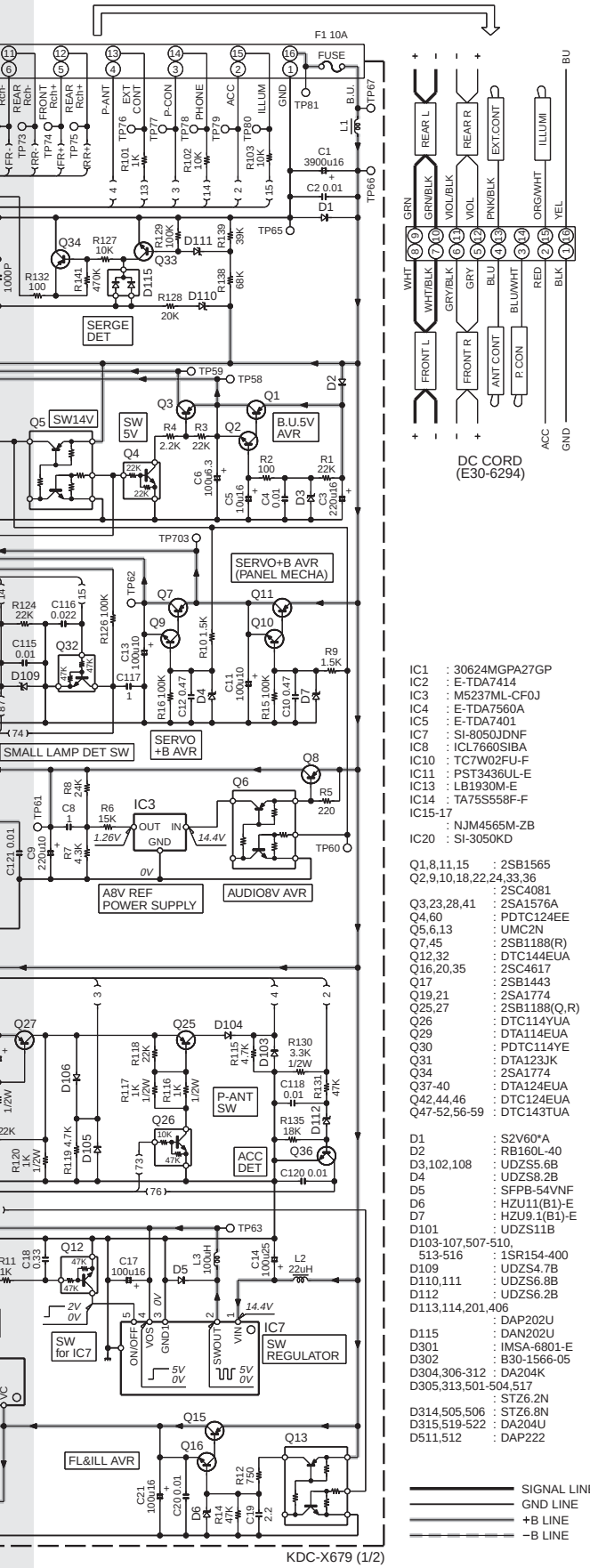
KDC-X679


POWER IC
IC4
LEVEL METER BUFFER
LEVEL METER MUTE SW
IC14
RESET IC
IC11
IC2
E-VOL & N.C.MPX
AC-OUT MUTE SW
SUB-OUT MUTE SW
AC-OUT MUTE DRIVER
SUB-OUT MUTE DRIVER
CD MD LED
DSI DRIVER
WOW MODE1
WOW MODE2
WOW MODE3
FOCUS
OPEL REMO
BYTE
CNVSS
XCIN
XCOUT
RESET
XOUT
VSS
XIN
VCC1
NMI
NC
RDS CLK
LX REQ S
PON AM
MUTE LEVEL
TUN IFC OUT
RDS AFS L
RDS AFS M
RDS QUAL
RDS DATA
TUN SCL
TUN SDA
PWIC BEEP
32.768kHz
16.000MHz
D315
CN2
to CD MECHANISM ASSY (X32-5560-00)

KDC-X679


IC1
SYSTEM
u-COM
J1
FRONT Lch+
REAR Lch+
FRONT Lch-
REAR Lch-
FRONT Rch-
REAR Rch-
FRONT Rch+
BU DET
EX AMP CONTROL BUFFER
SMALL LAMP
IC10
MUTING LOGIC IC
P-CON PROTECTION
P-CON SW
SW REGULATOR
IC20
A1
LX CLK
LX DATA M
LX DATA S
AVCC
VREF
TUN SMETER
AVSS
RDS NOISE
LX REQ M
LX MUTE
LX RST
DC DET
MD DET
LINE MUTE
MUTE PRE L
MUTE PRE R
MUTE SUBOUT
MUTE ACOUT
MUTE
RESET2
LX CON
PWIC STBY
PWIC MUTE (PWIC SVR)
ACC DET
BU DET
ILLUMI DET
ANT CONT
P CON
EXT CONT
OPEL CE
OPEL CLK
OPEL DATA
NC
TYPE2
TYPE1
TYPE0
VSS
COR DET
VCC
PON
PON CD
PON ILL
TUN TYPE0
TUN TYPE1
CD MOSW
CD LOEJ
CD LOE LIM SW
CD DISK8 SW
TUN SCL
TUN SDA
PAN SDA
PAN SCL
PAN SCREQ
PAN PNREQ
IC SDA
IC SCL
PON PAN
DSI
PM MOT1
PM MOT2
PM OPEN
PM CLOSE
PAN RST
PM DET
SC CON
CD DISK12 SW
CD LOS SW
CD MUTER
CD MUTEL
CD MRST
CD MSTOP
S1
S2
TP601
L201 4.7uH
Q35
Q31
Q5
Q27
Q28
Q29
Q30
D107
D108
D109
GND
VCC
SENSE
VOUT
GND1
VIN
VC
GND2
VOL
TP64

KDC-X679



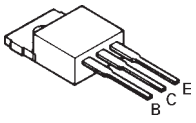
IC1 : 30624MGPA27GP
IC2 : E-TDA7414
IC3 : M5237ML-CF0J
IC4 : E-TDA7560A
IC5 : E-TDA7401
IC7 : SI-8050JDNF
IC8 : ICL7660SIBA
IC10 : TC7W02FU-F
IC11 : PST3436UL-E
IC13 : LB1930M-E
IC14 : TA75S558F-F
IC15-17 : NJM4565M-ZB
IC20 : SI-3050KD

Q1,8,11,15 : 2SB1565
Q2,9,10,18,22,24,33,36 : 2SC4081
Q3,23,28,41 : 2SA1576A
Q4,60 : PDTC124EE
Q5,6,13 : UMC2N
Q7,45 : 2SB1188(R)
Q12,32 : DTC144EUA
Q16,20,35 : 2SC4617
Q17 : 2SB1443
Q19,21 : 2SA1774
Q25,27 : 2SB1188(Q,R)
Q26 : DTC114YUA
Q29 : DTA114EUA
Q30 : PDTC114YE
Q31 : DTA123JK
Q34 : 2SA1774
Q37-40 : DTA124EUA
Q42,44,46 : DTC124EUA
Q47-52,56-59 : DTC143TUA

D1 : S2V60*A
D2 : RB160L-40
D3,102,108 : UDZS5.6B
D4 : UDZS8.2B
D5 : SFPB-54VNF
D6 : HZU11(B1)-E
D7 : HZU9.1(B1)-E
D101 : UDZS11B
D103-107,507-510, 513-516 : 1SR154-400
D109 : UDZS4.7B
D110,111 : UDZS6.8B
D112 : UDZS6.2B
D113,114,201,406 : DAP202U
D115 : DAN202U
D301 : IMSA-6801-E
D302 : B30-1566-05
D304,306-312 : DA204K
D305,313,501-504,517 : STZ6.2N
D314,505,506 : STZ6.8N
D315,519-522 : DA204U
D511,512 : DAP222

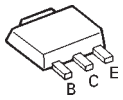
SIGNAL LINE
GND LINE
+B LINE
−B LINE

2SB1565

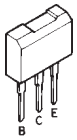


DTA114EE
DTA123JK
DTA144EE
DTC114YE
DTC114YUA
DTC124EE
DTC143TUA
2SA1163-F
2SA1576A
2SC2713-F
2SC4617

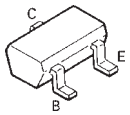
2SB1188



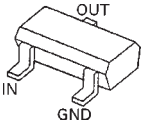
2SB1443



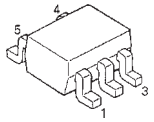
2SA1774
2SC4081



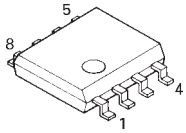
DTA114EUA
DTA124EUA
DTC124EUA
DTC144EUA



UMC2N



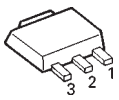
NJM4565M-ZB



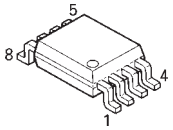
DAN202U

DAP202U
DA204K
DA204U

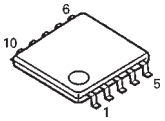
M5237ML



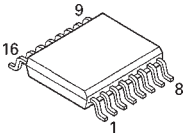
NJM4580V-LF



LB1930M-E

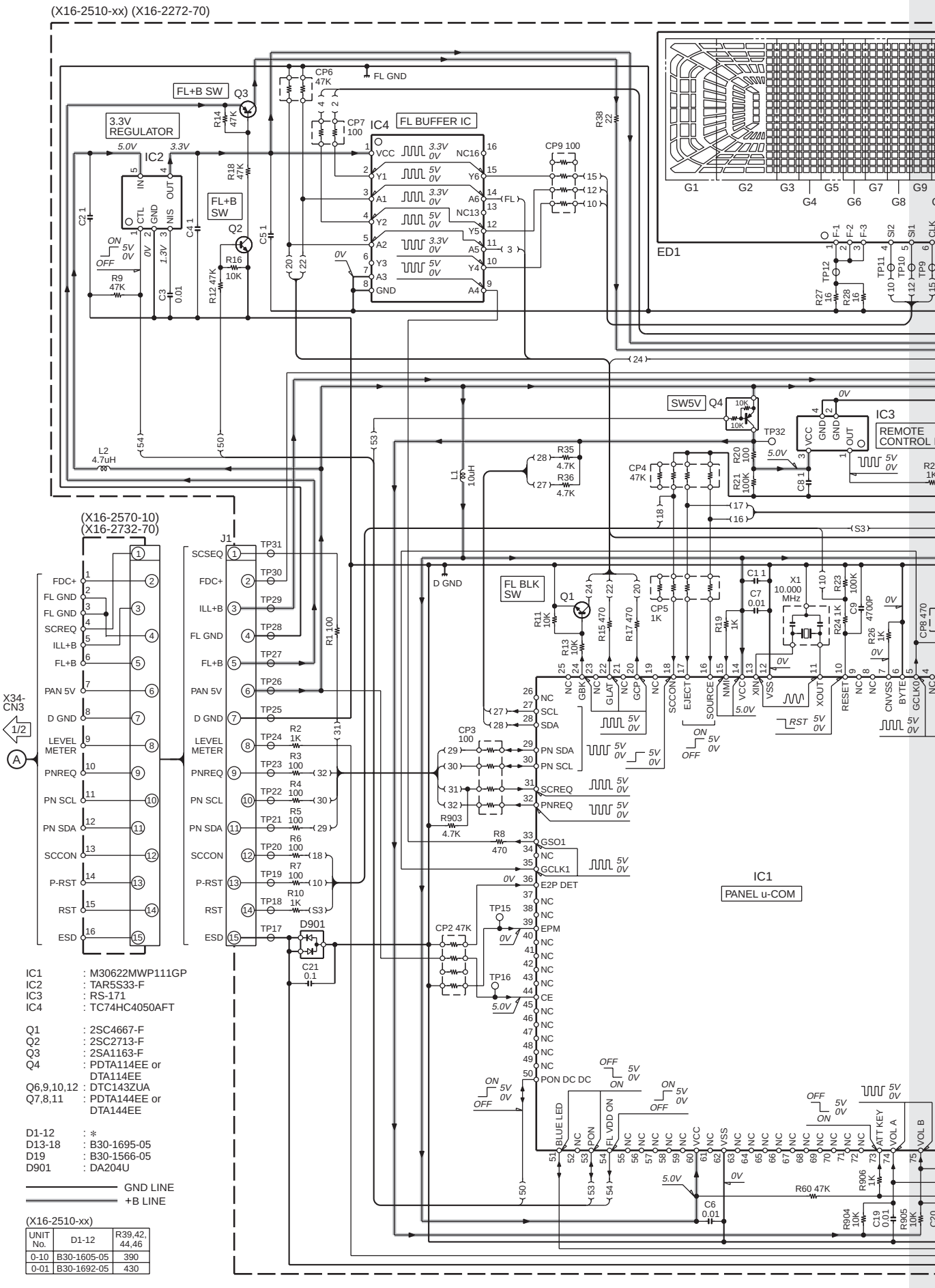


TC74HC4050AFT



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.



IC1 : M30622MWP111GP
IC2 : TAR5S33-F
IC3 : RS-171
IC4 : TC74HC4050AFT

Q1 : 2SC4667-F
Q2 : 2SC2713-F
Q3 : 2SA1163-F
Q4 : PDTA114EE or DTA114EE
Q6,9,10,12 : DTC143ZUA
Q7,8,11 : PDTA144EE or DTA144EE

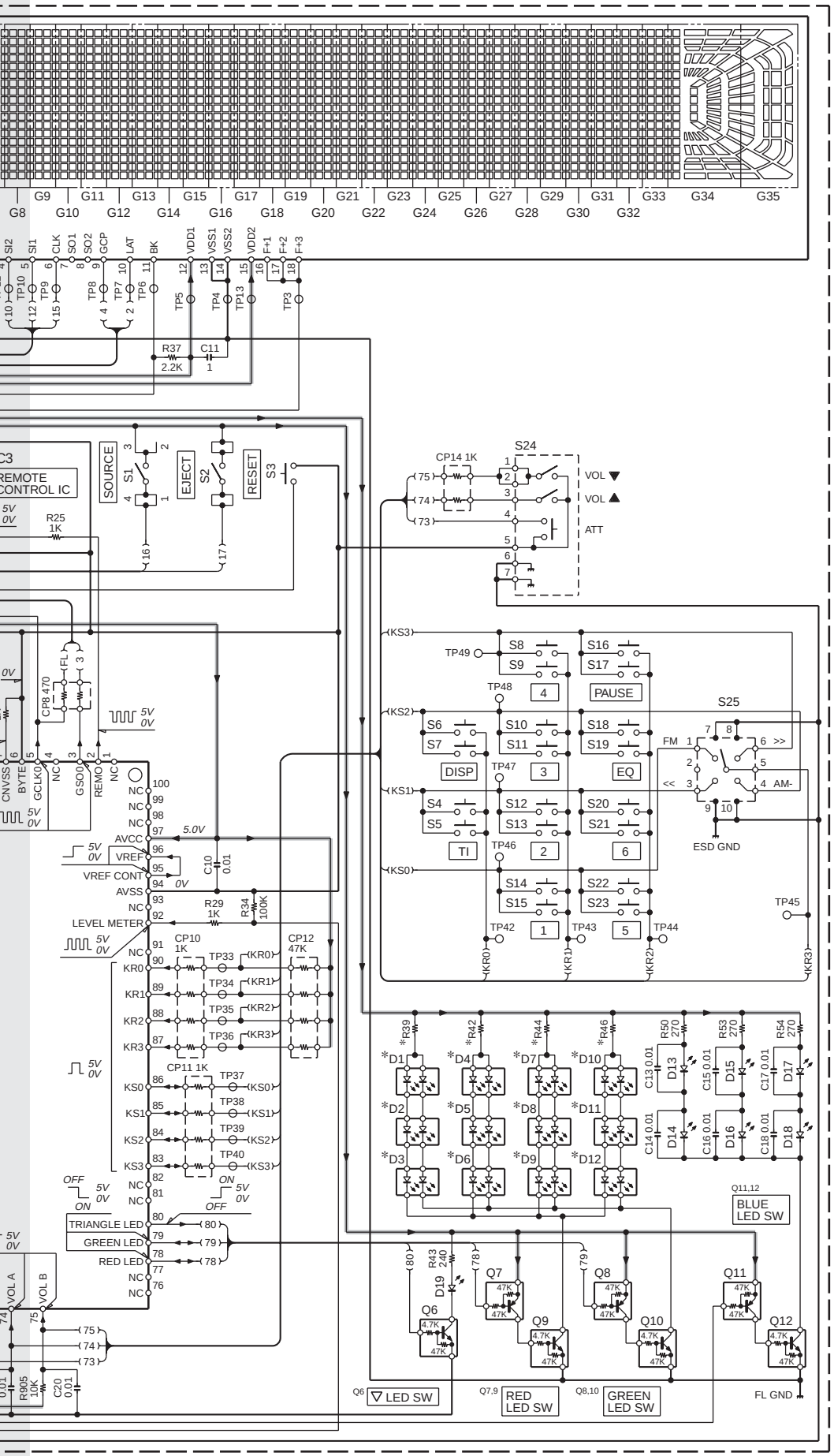
D1-12 : *
D13-18 : B30-1695-05
D19 : B30-1566-05
D901 : DA204U

GND LINE
+B LINE

(X16-2510-xx)

UNIT No.	D1-12	R39,42, 44,46
0-10	B30-1605-05	390
0-01	B30-1692-05	430

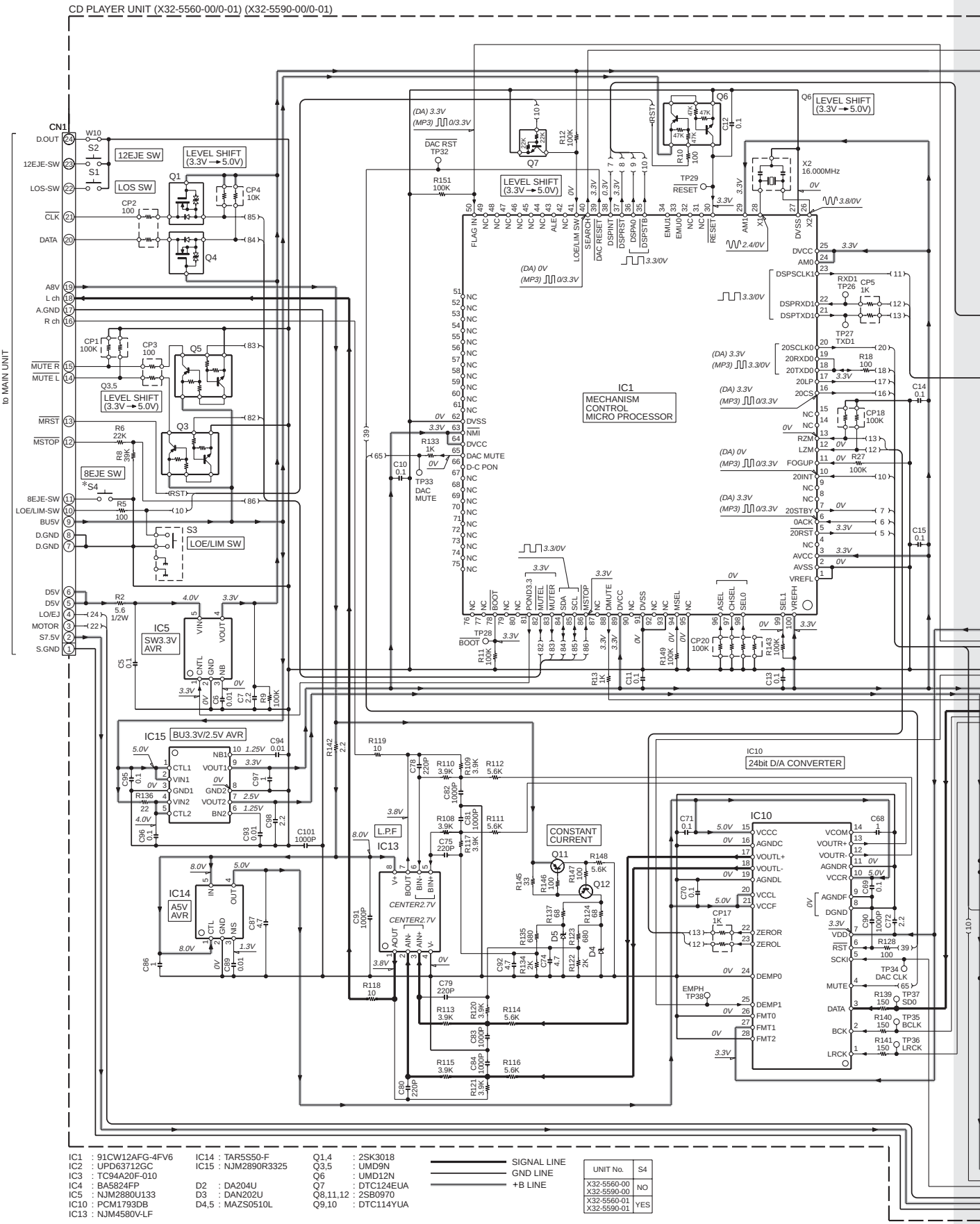
KDC-X679



KDC-X679 (2/2)

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.

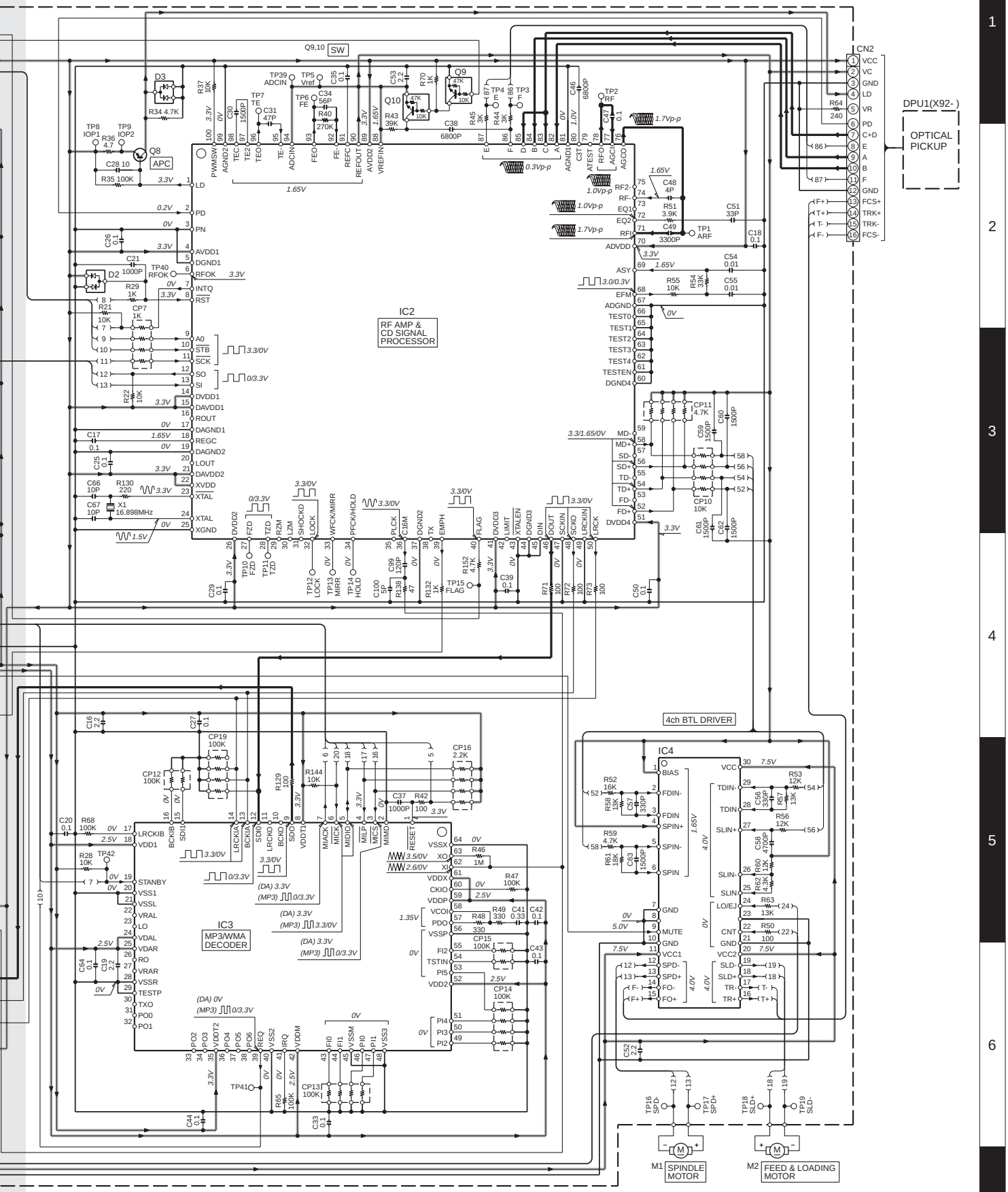
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.



CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

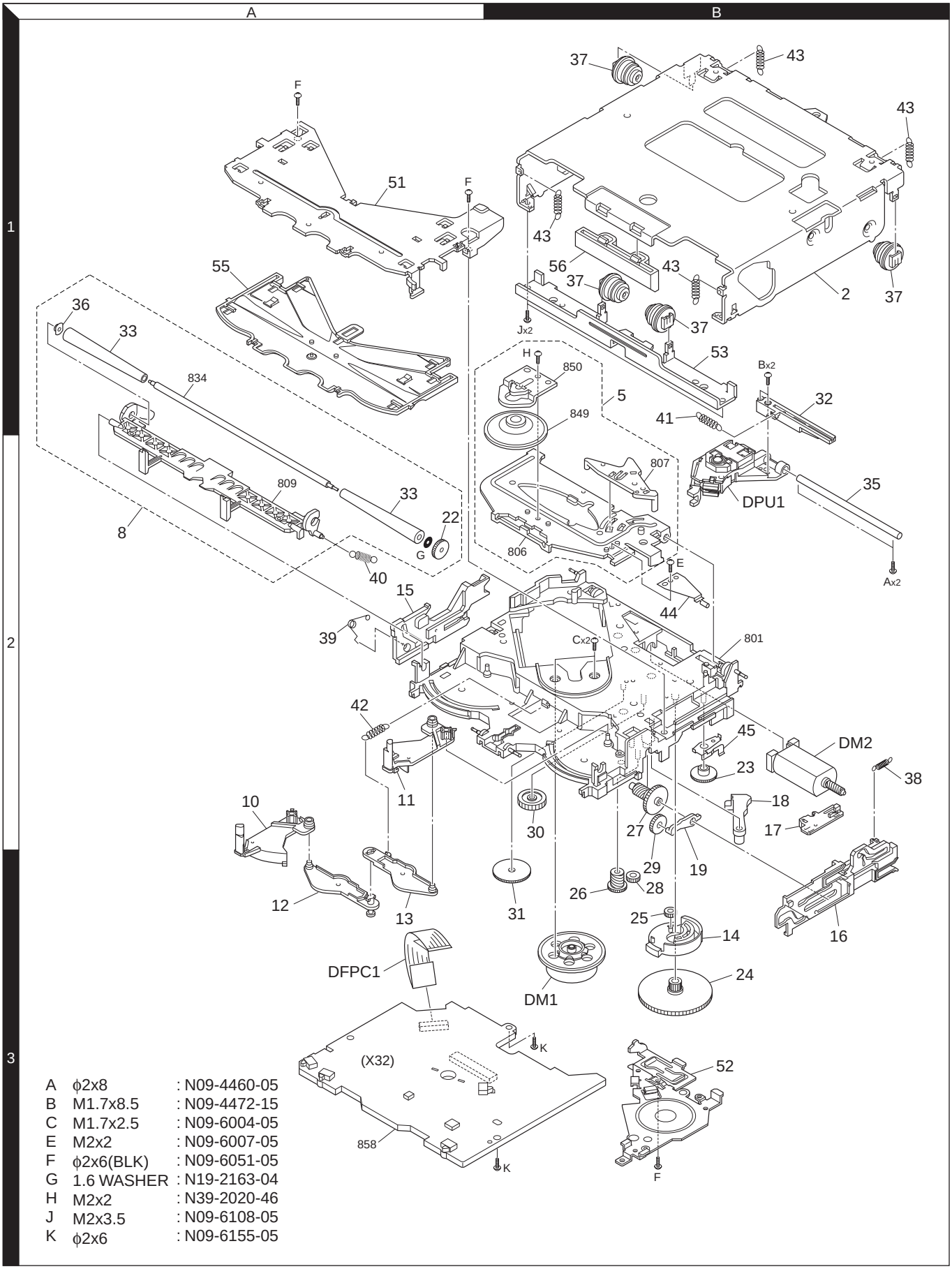
⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KDC-X679



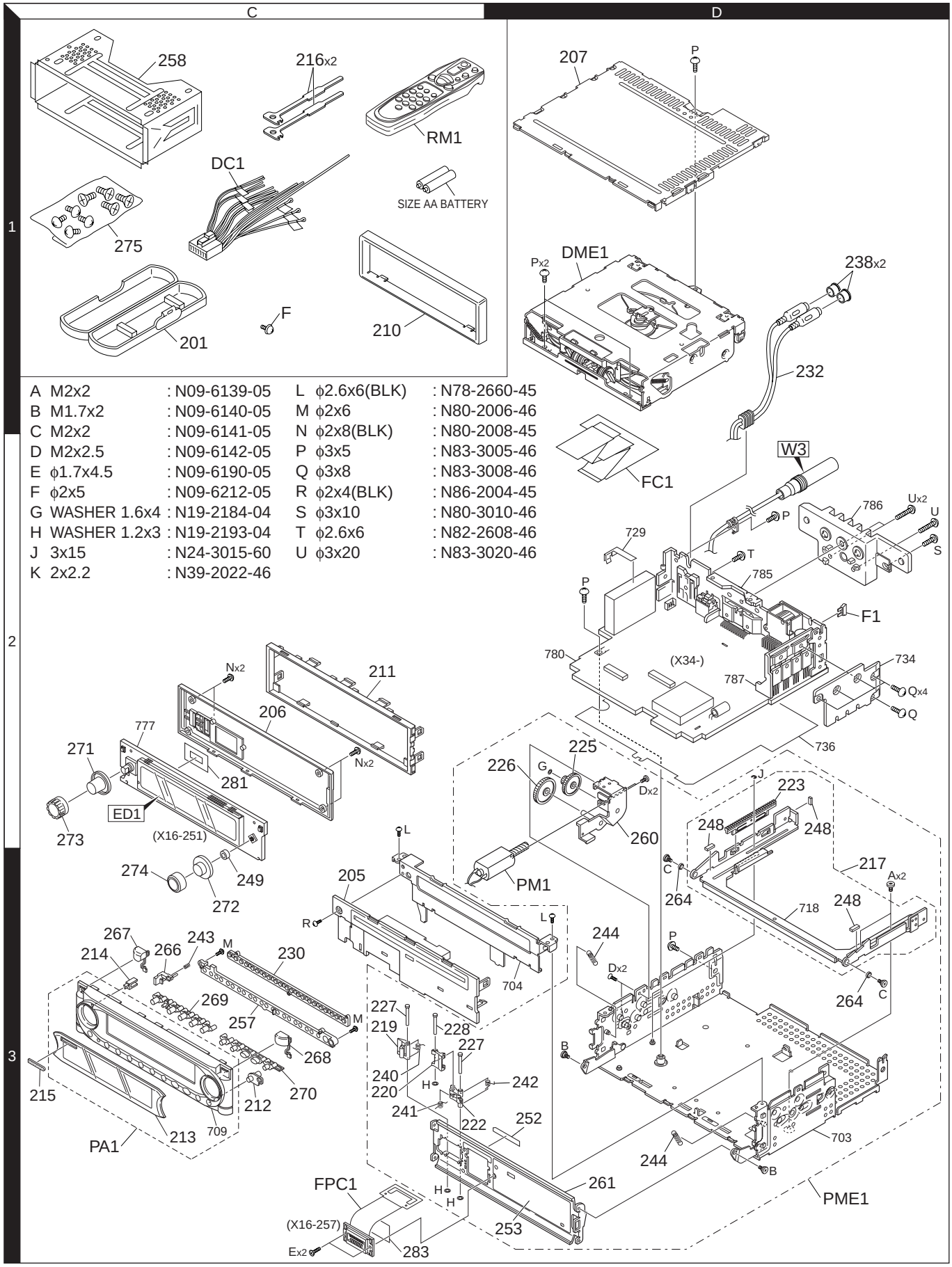
- DC voltages are as measured with a high impedance voltmeter.
  Values may vary slightly due to variations between individual instruments or/and units.

EXPLODED VIEW (MECHANISM)



Refer to the service manual X92-4030-0x (B51-7867-00) for CD mechanism operation.

EXPLODED VIEW (UNIT)



A	M2x2	: N09-6139-05	L	ϕ2.6x6(BLK)	: N78-2660-45
B	M1.7x2	: N09-6140-05	M	ϕ2x6	: N80-2006-46
C	M2x2	: N09-6141-05	N	ϕ2x8(BLK)	: N80-2008-45
D	M2x2.5	: N09-6142-05	P	ϕ3x5	: N83-3005-46
E	ϕ1.7x4.5	: N09-6190-05	Q	ϕ3x8	: N83-3008-46
F	ϕ2x5	: N09-6212-05	R	ϕ2x4(BLK)	: N86-2004-45
G	WASHER 1.6x4	: N19-2184-04	S	ϕ3x10	: N80-3010-46
H	WASHER 1.2x3	: N19-2193-04	T	ϕ2.6x6	: N82-2608-46
J	3x15	: N24-3015-60	U	ϕ3x20	: N83-3020-46
K	2x2.2	: N39-2022-46			

Parts with the 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.	Add	New	Parts No.	Description	Destination
KDC-X679					
201	1C	✻	A02-2732-03	PLASTIC CABINET ASSY	
205	3C	✻	A22-3023-12	SUB PANEL ASSY	
206	2C	✻	A46-1798-01	REAR COVER	
207	1D	✻	A52-0845-12	TOP PLATE	
PA1	3C	✻	A64-3212-12	PANEL ASSY	
PME1	3D	✻	A10-5112-12	CHASSIS ASSY	
RM1	1C	✻	A70-2059-05	REMOTE CONTROLLER ASSY (RC-505)	
-			B46-0100-50	WARRANTY CARD	
-			B46-0606-04	ID CARD	
-		✻	B46-0648-13	USER CARD	
-		✻	B64-2764-00	INSTRUCTION MANUAL (ENGLISH)	
-		✻	B64-2765-00	INSTRUCTION MANUAL (FRE.SPA.)	
210	1C		B07-3083-02	ESCUTCHEON	
211	2C	✻	B07-3095-02	ESCUTCHEON	
212	3C	✻	B10-4509-04	FRONT GLASS	
213	3C	✻	B10-4502-01	FRONT GLASS	
214	3C	✻	B19-2245-04	LIGHTING BOARD	
215	3C		B43-1518-04	BADGE	
216	1C		D10-4589-04	LEVER	
217	3D	✻	D10-4799-13	SLIDER ASSY	
219	3C	✻	D10-4805-03	LEVER	
220	3C	✻	D10-4806-03	LEVER	
222	3C	✻	D10-4807-13	LEVER	
223	2D	✻	D13-2318-13	RACK (GEAR)	
225	2D	✻	D13-2320-04	GEAR	
226	2D	✻	D13-2321-04	GEAR	
227	3C	✻	D21-2442-04	SHAFT	
228	3C	✻	D21-2443-04	SHAFT	
230	3C	✻	E29-1970-03	CONDUCTIVE RUBBER	
232	1D	✻	E30-6290-05	CORD WITH PINPLUG	
⚠ DC1	1C	✻	E30-6294-05	DC CORD	
FC1	1D	✻	E39-0666-05	FLAT CABLE (24P)	
238	1D		F29-0626-04	INSULATING COVER	
⚠ F1	2D		F52-0006-05	FUSE (MINI BLADE TYPE) 10A	
240	3C	✻	G01-3210-04	TORSION COIL SPRING	
241	3C	✻	G01-3211-04	TORSION COIL SPRING	
242	3C	✻	G01-3212-04	TORSION COIL SPRING	
243	3C	✻	G01-3213-04	COMPRESSION SPRING	
244	3D	✻	G01-3215-04	EXTENSION SPRING	
248	3D	✻	G11-3564-04	CUSHION	
249	3C	✻	G11-3573-04	CUSHION	
252	3D	✻	G16-1482-14	SHEET	
253	3D	✻	G16-1483-04	SHEET	
-		✻	H10-4890-02	POLYSTYRENE FOAMED FIXTURE	
-			H25-0329-04	PROTECTION BAG (280X450X0.03)	
-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
-		✻	H54-3092-03	ITEM CARTON CASE	
257	3C	✻	J19-5273-02	HOLDER	
258	1C		J21-9716-03	MOUNTING HARDWARE ASSY	
260	3C	✻	J22-0114-03	MOUNTING HARDWARE ASSY	
261	3D	✻	J22-0117-02	MOUNTING HARDWARE	
264	3D	✻	J31-1062-04	COLLAR	
266	3C	✻	K24-4104-03	KNOB (RELEASE)	
267	3C	✻	K24-4128-03	KNOB (SRC)	
268	3C	✻	K24-4129-03	KNOB (EJECT)	
269	3C	✻	K25-1600-02	KNOB (1-4,AUTO)	
270	3C	✻	K25-1640-02	KNOB (5-6,DISP)	
271	2C	✻	K29-7084-03	KNOB BASE (VOL)	
272	3C	✻	K29-7085-03	KNOB BASE (FM/AM)	
273	2C	✻	K29-7086-03	KEY TOP (VOL)	
274	3C	✻	K29-7087-03	KEY TOP (FM/AM)	
275	1C		N99-1723-05	SCREW SET	
A	3D	✻	N09-6139-05	STEPPED SCREW (M2X2)	
B	3D	✻	N09-6140-05	STEPPED SCREW (M1.7X2)	
C	3D	✻	N09-6141-05	STEPPED SCREW (M2X2)	
D	3D	✻	N09-6142-05	MACHINE SCREW (M2X2.5)	
E	3C	✻	N09-6190-05	TAPPING SCREW (1.7X4.5)	
F	1C	✻	N09-6212-05	TAPPING SCREW (2X5)	
G	2D	✻	N19-2184-04	FLAT WASHER (1.6X4.0X0.25)	
H	3C	✻	N19-2193-04	FLAT WASHER (1.2X3.0X0.25)	
J	2D		N24-3015-60	E TYPE RETAINING RING	
L	3C	✻	N78-2660-45	PAN HEAD TAPTITE SCREW	
M	3C		N80-2006-46	PAN HEAD TAPTITE SCREW	
N	2C		N80-2008-45	PAN HEAD TAPTITE SCREW	
P	1D		N83-3005-46	PAN HEAD TAPTITE SCREW	
Q	2D		N83-3008-46	PAN HEAD TAPTITE SCREW	
R	3C		N86-2004-45	BINDING HEAD TAPTITE SCREW	
PM1	3D	✻	T42-1086-14	MOTOR ASSY	
DME1	1D	✻	X92-4910-00	CD MECHANISM ASSY	
SUB-CIRCUIT UNIT (X16-2510-10)					
D1-12			B30-1605-05	LED (2COLOR PG/RED)	
D13-18		✻	B30-1695-05	LED (1608 BLUE K,L)	
D19			B30-1566-05	LED (1608,RED)	
C1,2			CK73GB0J105K	CHIP C 1.0UF K	
C3			CK73GB1H103K	CHIP C 0.010UF K	
C4,5			CK73GB0J105K	CHIP C 1.0UF K	
C6,7			CK73GB1H103K	CHIP C 0.010UF K	
C8			CK73GB0J105K	CHIP C 1.0UF K	
C9			CK73GB1H472K	CHIP C 4700PF K	
C10			CK73GB1H103K	CHIP C 0.010UF K	
C11			CK73GB0J105K	CHIP C 1.0UF K	
C13-20			CK73GB1H103K	CHIP C 0.010UF K	
C21			CK73GB1H104K	CHIP C 0.10UF K	
J1		✻	E59-0839-05	RECTANGULAR PLUG	
281	2C	✻	F20-2285-14	INSULATING SHEET	
L1			L40-1005-68	SMALL FIXED INDUCTOR	
L2			L40-4795-68	SMALL FIXED INDUCTOR (4.7UH)	
X1			L78-0858-05	RESONATOR	
CP2			RK74HB1J473J	CHIP-COM 47K J 1/16W	
CP3			RK74HB1J101J	CHIP-COM 100 J 1/16W	
CP4			RK74HB1J473J	CHIP-COM 47K J 1/16W	

K : North America

⚠ Indicates safety critical components.

PARTS LIST

✻ New parts
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Ref. No.	Add	New	Parts No.	Description	Destination
CP5			RK74HB1J102J	CHIP-COM 1.0K J 1/16W	
CP6			RK74GA1J473J	CHIP-COM 47K J 1/16W	
CP7			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP8		✻	RK74GA1J471J	CHIP-COM 470 J 1/16W	
CP9			RK74HB1J101J	CHIP-COM 100 J 1/16W	
CP10,11			RK74HB1J102J	CHIP-COM 1.0K J 1/16W	
CP12			RK74HB1J473J	CHIP-COM 47K J 1/16W	
CP14			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
R1			RK73EB2E101J	CHIP R 100 J 1/4W	
R2			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R3-7			RK73EB2E101J	CHIP R 100 J 1/4W	
R8			RK73GB2A471J	CHIP R 470 J 1/10W	
R9			RK73GB2A473J	CHIP R 47K J 1/10W	
R10			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R11			RK73GB2A103J	CHIP R 10K J 1/10W	
R12			RK73GB2A473J	CHIP R 47K J 1/10W	
R13			RK73GB2A103J	CHIP R 10K J 1/10W	
R14			RK73GB2A473J	CHIP R 47K J 1/10W	
R15			RK73GB2A471J	CHIP R 470 J 1/10W	
R16			RK73GB2A103J	CHIP R 10K J 1/10W	
R17			RK73GB2A471J	CHIP R 470 J 1/10W	
R18			RK73GB2A473J	CHIP R 47K J 1/10W	
R19			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R20			RK73GB2A101J	CHIP R 100 J 1/10W	
R21			RK73GB2A104J	CHIP R 100K J 1/10W	
R23			RK73GB2A104J	CHIP R 100K J 1/10W	
R24-26			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R27,28		✻	RK73EB2E160J	CHIP R 16 J 1/4W	
R29			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R34			RK73GB2A104J	CHIP R 100K J 1/10W	
R35,36			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R37			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R38			RK73GB2A220J	CHIP R 22 J 1/10W	
R39			RK73FB2B391J	CHIP R 390 J 1/8W	
R42			RK73FB2B391J	CHIP R 390 J 1/8W	
R43			RK73FB2B241J	CHIP R 240 J 1/8W	
R44			RK73FB2B391J	CHIP R 390 J 1/8W	
R46			RK73FB2B391J	CHIP R 390 J 1/8W	
R50			RK73FB2B271J	CHIP R 270 J 1/8W	
R53,54			RK73FB2B271J	CHIP R 270 J 1/8W	
R60			RK73GB2A473J	CHIP R 47K J 1/10W	
R903			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R904,905			RK73GB2A103J	CHIP R 10K J 1/10W	
R906			RK73GB2A102J	CHIP R 1.0K J 1/10W	
S1,2			S70-0901-05	TACT SWITCH	
S25		✻	S70-0920-05	TACT SWITCH	
S24		✻	T99-0450-05	ROTARY ENCODER	
D901			DA204U	DIODE	
ED1		✻	CN2100M	FLUORESCENT INDICATOR TUBE	
IC1		✻	30622MWP111GP	MICROCONTROLLER IC	
IC2		✻	TAR5S33-F	ANALOGUE IC	
IC3			RS-171	ANALOGUE IC	
IC4			TC74HC4050AFT	MOS-IC	

SUB-CIRCUIT UNIT (X16-2510-10)

Ref. No.	Add	New	Parts No.	Description	Destination
Q1		✻	2SC4667-F	TRANSISTOR	
Q2		✻	2SC2713-F	TRANSISTOR	
Q3		✻	2SA1163-F	TRANSISTOR	
Q4			DTA114EE	DIGITAL TRANSISTOR	
Q4		✻	PDTA114EE	TRANSISTOR	
Q6			DTC143ZUA	DIGITAL TRANSISTOR	
Q7,8			DTA144EE	DIGITAL TRANSISTOR	
Q7,8		✻	PDTA144EE	TRANSISTOR	
Q9,10			DTC143ZUA	DIGITAL TRANSISTOR	
Q11			DTA144EE	DIGITAL TRANSISTOR	
Q11		✻	PDTA144EE	TRANSISTOR	
Q12			DTC143ZUA	DIGITAL TRANSISTOR	

SUB-CIRCUIT UNIT (X16-2570-10)

J1		✻	E58-0982-05	RECTANGULAR RECEPTACLE	
283	3C	✻	F20-2284-14	INSULATING SHEET	
FPC1	3C	✻	J86-0003-05	FPC (LEAD FREE)	

CD PLAYER UNIT (X32-5560-00)

C5			CK73GB1C104K	CHIP C	0.10UF	K	
C6			CK73GB1H103K	CHIP C	0.010UF	K	
C7			CK73FB1A225K	CHIP C	2.2UF	K	
C10-15			CK73GB1C104K	CHIP C	0.10UF	K	
C16			CK73FB1A225K	CHIP C	2.2UF	K	
C17,18			CK73GB1C104K	CHIP C	0.10UF	K	
C19			CK73FB1A225K	CHIP C	2.2UF	K	
C20			CK73GB1C104K	CHIP C	0.10UF	K	
C21			CK73GB1H102K	CHIP C	1000PF	K	
C25-27			CK73GB1C104K	CHIP C	0.10UF	K	
C28			CK73FB0J106M	CHIP C	10UF	M	
C29			CK73GB1C104K	CHIP C	0.10UF	K	
C30			CK73GB1H152K	CHIP C	1500PF	K	
C31			CC73GCH1H470J	CHIP C	47PF	J	
C33			CK73GB1C104K	CHIP C	0.10UF	K	
C34			CC73GCH1H560J	CHIP C	56PF	J	
C35			CK73GB1C104K	CHIP C	0.10UF	K	
C37			CK73GB1H102K	CHIP C	1000PF	K	
C38			CK73GB1H682K	CHIP C	6800PF	K	
C39			CK73GB1C104K	CHIP C	0.10UF	K	
C41			CK73GB1A334K	CHIP C	0.33UF	K	
C42-44			CK73GB1C104K	CHIP C	0.10UF	K	
C46			CK73GB1H682K	CHIP C	6800PF	K	
C47			CK73GB1C104K	CHIP C	0.10UF	K	
C48			CC73GCH1H040C	CHIP C	4.0PF	C	
C49			CK73GB1H332K	CHIP C	3300PF	K	
C50			CK73GB1C104K	CHIP C	0.10UF	K	
C51			CC73GCH1H330J	CHIP C	33PF	J	
C52,53			CK73FB1A225K	CHIP C	2.2UF	K	
C54,55			CK73GB1H103K	CHIP C	0.010UF	K	
C56,57			CK73GB1H331K	CHIP C	330PF	K	
C58			CK73GB1H472K	CHIP C	4700PF	K	
C59-63			CK73GB1H152K	CHIP C	1500PF	K	
C64			CK73GB1C104K	CHIP C	0.10UF	K	
C66,67			CC73GCH1H100D	CHIP C	10PF	D	

K : 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.

CD PLAYER UNIT (X32-5560-00)

Ref. No.	Add	New	Parts No.	Description	Destination
C68			CK73GB0J105K	CHIP C 1.0UF K	
C69-71			CK73GB1C104K	CHIP C 0.10UF K	
C72			CK73FB1A225K	CHIP C 2.2UF K	
C74			CK73FB0J475K	CHIP C 4.7UF K	
C75			CC73GCH1H221J	CHIP C 220PF J	
C78-80			CC73GCH1H221J	CHIP C 220PF J	
C81-84			CC73GCH1H102J	CHIP C 1000PF J	
C86			CK73GB1A105K	CHIP C 1.0UF K	
C87			CK73FB0J475K	CHIP C 4.7UF K	
C89			CK73GB1H103K	CHIP C 0.010UF K	
C90			CK73GB1H102K	CHIP C 1000PF K	
C91			CC73GCH1H102J	CHIP C 1000PF J	
C92			CK73FB0J475K	CHIP C 4.7UF K	
C93,94			CK73GB1H103K	CHIP C 0.010UF K	
C95,96			CK73GB1C104K	CHIP C 0.10UF K	
C97			CK73GB0J105K	CHIP C 1.0UF K	
C98			CK73FB1A225K	CHIP C 2.2UF K	
C99			CC73GCH1H121J	CHIP C 120PF J	
C100			CC73GCH1H050C	CHIP C 5.0PF C	
C101			CK73GB1H102K	CHIP C 1000PF K	
CN1		✻	E41-2083-05	FLAT CABLE CONNECTOR	
CN2			E41-2068-05	FLAT CABLE CONNECTOR	
CN2			E41-2085-05	FLAT CABLE CONNECTOR	
X1		✻	L77-2863-05	CRYSTAL RESONATOR (16.899M)	
X2		✻	L78-0896-05	RESONATOR (16.00MHZ)	
CP1			RK74GA1J104J	CHIP-COM 100K J 1/16W	
CP2,3			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP4			RK74GA1J103J	CHIP-COM 10K J 1/16W	
CP5			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
CP7			RK74GB1J102J	CHIP-COM 1.0K J 1/16W	
CP10			RK74GB1J103J	CHIP-COM 10K J 1/16W	
CP11			RK74GB1J472J	CHIP-COM 4.7K J 1/16W	
CP12			RK74GA1J104J	CHIP-COM 100K J 1/16W	
CP13,14			RK74GB1J104J	CHIP-COM 100K J 1/16W	
CP15			RK74GA1J104J	CHIP-COM 100K J 1/16W	
CP16		✻	RK74GB1J222J	CHIP-COM 2.2K J 1/16W	
CP17			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
CP18			RK74GA1J104J	CHIP-COM 100K J 1/16W	
CP19,20			RK74GB1J104J	CHIP-COM 100K J 1/16W	
R2			R92-3494-05	CHIP R 5.6 F 1/2W	
R5			RK73GB2A101J	CHIP R 100 J 1/10W	
R6		✻	RK73GH2A223D	CHIP R 22K D 1/10W	
R8		✻	RK73GH2A393D	CHIP R 39K D 1/10W	
R9			RK73GB2A104J	CHIP R 100K J 1/10W	
R10			RK73GB2A101J	CHIP R 100 J 1/10W	
R11,12			RK73GB2A104J	CHIP R 100K J 1/10W	
R13			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R18			RK73GB2A101J	CHIP R 100 J 1/10W	
R21,22			RK73GB2A103J	CHIP R 10K J 1/10W	
R27			RK73GB2A104J	CHIP R 100K J 1/10W	
R28			RK73GB2A103J	CHIP R 10K J 1/10W	
R29			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R34			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R35			RK73GB2A104J	CHIP R 100K J 1/10W	

Ref. No.	Add	New	Parts No.	Description	Destination
R36			RK73FB2B4R7J	CHIP R 4.7 J 1/8W	
R37			RK73GB2A103J	CHIP R 10K J 1/10W	
R40			RK73GB2A274J	CHIP R 270K J 1/10W	
R42			RK73GB2A101J	CHIP R 100 J 1/10W	
R43			RK73GB2A393J	CHIP R 39K J 1/10W	
R44,45			RK73GB2A302J	CHIP R 3.0K J 1/10W	
R46			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R47			RK73GB2A104J	CHIP R 100K J 1/10W	
R48,49			RK73GB2A331J	CHIP R 330 J 1/10W	
R50			RK73GB2A101J	CHIP R 100 J 1/10W	
R51			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R52			RK73GB2A163J	CHIP R 16K J 1/10W	
R53			RK73GB2A123J	CHIP R 12K J 1/10W	
R54			RK73GB2A333J	CHIP R 33K J 1/10W	
R55			RK73GB2A103J	CHIP R 10K J 1/10W	
R56			RK73GB2A123J	CHIP R 12K J 1/10W	
R57,58			RK73GB2A133J	CHIP R 13K J 1/10W	
R59			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R60			RK73GB2A123J	CHIP R 12K J 1/10W	
R61			RK73GB2A183J	CHIP R 18K J 1/10W	
R62			RK73GB2A432J	CHIP R 4.3K J 1/10W	
R63			RK73GB2A133J	CHIP R 13K J 1/10W	
R64			RK73GB2A241J	CHIP R 240 J 1/10W	
R65			RK73GB2A104J	CHIP R 100K J 1/10W	
R68			RK73GB2A104J	CHIP R 100K J 1/10W	
R70			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R71-73			RK73GB2A101J	CHIP R 100 J 1/10W	
R108-110		✻	RK73GH2A392D	CHIP R 3.9K D 1/10W	
R111,112		✻	RK73GH2A562D	CHIP R 5.6K D 1/10W	
R113		✻	RK73GH2A392D	CHIP R 3.9K D 1/10W	
R114		✻	RK73GH2A562D	CHIP R 5.6K D 1/10W	
R115		✻	RK73GH2A392D	CHIP R 3.9K D 1/10W	
R116		✻	RK73GH2A562D	CHIP R 5.6K D 1/10W	
R117		✻	RK73GH2A392D	CHIP R 3.9K D 1/10W	
R118,119		✻	RK73GH2A100D	CHIP R 10 D 1/10W	
R120,121		✻	RK73GH2A392D	CHIP R 3.9K D 1/10W	
R122		✻	RK73GH2A202D	CHIP R 2.0K D 1/10W	
R123		✻	RK73GH2A681D	CHIP R 680 D 1/10W	
R124			RK73GB2A680J	CHIP R 68 J 1/10W	
R128,129			RK73GB2A101J	CHIP R 100 J 1/10W	
R130			RK73GB2A221J	CHIP R 220 J 1/10W	
R132,133			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R134		✻	RK73GH2A202D	CHIP R 2.0K D 1/10W	
R135		✻	RK73GH2A681D	CHIP R 680 D 1/10W	
R136			RK73EB2E220J	CHIP R 22 J 1/4W	
R137			RK73GB2A680J	CHIP R 68 J 1/10W	
R138			RK73GB2A470J	CHIP R 47 J 1/10W	
R139-141		✻	RK73GH2A151D	CHIP R 150 D 1/10W	
R142			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	
R143			RK73GB2A104J	CHIP R 100K J 1/10W	
R144			RK73GB2A103J	CHIP R 10K J 1/10W	
R145		✻	RK73GH2A330D	CHIP R 33 D 1/10W	
R146,147			RK73GB2A101J	CHIP R 100 J 1/10W	
R148			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R149			RK73GB2A104J	CHIP R 100K J 1/10W	

K : North America

⚠ Indicates safety critical components.

PARTS LIST

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Ref. No.	Add	New	Parts No.	Description	Destination
R151			RK73GB2A104J	CHIP R 100K J 1/10W	
R152			RK73GB2A472J	CHIP R 4.7K J 1/10W	
W10			R92-1252-05	CHIP R 0 OHM J 1/16W	
S1,2			S68-0863-05	PUSH SWITCH	
S3			S68-0862-05	PUSH SWITCH	
D2		✻	DA204UF	DIODE	
D3			DAN202UF	DIODE	
D4,5		✻	MAZS0510L	ZENER DIODE	
IC1		✻	91CW12AFG-4VF6	MICROCONTROLLER IC	
IC2			UPD63712GC	MOS-IC	
IC3		✻	TC94A20F-010	MOS-IC	
IC4			BA5824FP-F	ANALOGUE IC	
IC5			NJM2880U133	ANALOGUE IC	
IC5			NJM2880U33	ANALOGUE IC	
IC10		✻	PCM1793DB	MOS-IC	
IC13		✻	NJM4580V-LF	ANALOGUE IC	
IC14		✻	TAR5S50-F	ANALOGUE IC	
IC15		✻	NJM2890R3325	ANALOGUE IC	
Q1		✻	2SK3018F	FET	
Q3			UMD9N	TRANSISTOR	
Q4		✻	2SK3018F	FET	
Q5			UMD9N	TRANSISTOR	
Q6			UMD12N	TRANSISTOR	
Q7		✻	DTC124EUAF	DIGITAL TRANSISTOR	
Q8			2SB0970	TRANSISTOR	
Q9,10			DTC114YUAF	DIGITAL TRANSISTOR	
Q11,12			2SB0970	TRANSISTOR	

ELECTRIC UNIT (X34-3000-10)

Ref. No.	Add	New	Parts No.	Description	Destination
D302			B30-1566-05	LED (1608,RED)	
C1		✻	C90-5626-05	ELECTRO 3900UF 16WV	
C2			CK73GB1H103K	CHIP C 0.010UF K	
C3		✻	C90-5692-05	ELECTRO 220UF 16WV	
C4			CK73GB1H103K	CHIP C 0.010UF K	
C5		✻	CE32CL1C100M	CHIP EL 10UF 16WV	
C6			CD04AS0J101M	ELECTRO 100UF 6.3WV	
C7		✻	CD04BE1J820M	ELECTRO 82UF 63WV	
C8			CK73FB1C105K	CHIP C 1.0UF K	
C9			CD04AT1A221M	ELECTRO 220UF 10WV	
C10			CK73GB1A474K	CHIP C 0.47UF K	
C11			CD04AT1A101M	ELECTRO 100UF 10WV	
C12			CK73GB1A474K	CHIP C 0.47UF K	
C13			CD04AT1A101M	ELECTRO 100UF 10WV	
C14			CD04BF1E101M	ELECTRO 100UF 25WV	
C16		✻	CD04BF1C101M	ELECTRO 100UF 16WV	
C17		✻	C90-5680-05	ELECTRO 100UF 16WV	
C18			CK73FB1C334K	CHIP C 0.33UF K	
C19			CK73EB1C225K	CHIP C 2.2UF K	
C20			CK73GB1H103K	CHIP C 0.010UF K	
C21		✻	C94-0151-05	ELECTRO 100UF 16WV	
C23		✻	C90-5680-05	ELECTRO 100UF 16WV	
C101			CD04AS1E4R7M	ELECTRO 4.7UF 25WV	
C102		✻	CD04BF1C101M	ELECTRO 100UF 16WV	
C103-106			CK73EB1C225K	CHIP C 2.2UF K	

CD PLAYER UNIT (X32-5560-00)

Ref. No.	Add	New	Parts No.	Description	Destination
C107			CD04AS1C220M	ELECTRO 22UF 16WV	
C108			CK73GB1E223K	CHIP C 0.022UF K	
C109			CK73GB1H103K	CHIP C 0.010UF K	
C110,111			CK73EB1C225K	CHIP C 2.2UF K	
C112		✻	CD04BA1H3R3M	ELECTRO 3.3UF 50WV	
C113			CK73GB0J105K	CHIP C 1.0UF K	
C114		✻	CD04BA1H0R1M	ELECTRO 0.1UF 50WV	
C115			CK73GB1H103K	CHIP C 0.010UF K	
C116			CK73GB1E223K	CHIP C 0.022UF K	
C117			CK73FB1C105K	CHIP C 1.0UF K	
C118			CK73GB1H103K	CHIP C 0.010UF K	
C119			CK73GB1H102K	CHIP C 1000PF K	
C120,121			CK73GB1H103K	CHIP C 0.010UF K	
C201			CC73GCH1H220J	CHIP C 22PF J	
C202			CK73GB1H104K	CHIP C 0.10UF K	
C203			CC73GCH1H270J	CHIP C 27PF J	
C204-206			CK73GB1H103K	CHIP C 0.010UF K	
C207			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C208			CK73GB1H102K	CHIP C 1000PF K	
C209			CK73GB1H103K	CHIP C 0.010UF K	
C301,302			CK73GB1H103K	CHIP C 0.010UF K	
C303			CK73FB1C105K	CHIP C 1.0UF K	
C314-316			CK73GB1C104K	CHIP C 0.10UF K	
C317			CC73GCH1H220J	CHIP C 22PF J	
C318			CK73FB1C105K	CHIP C 1.0UF K	
C319			CD04AS1E4R7M	ELECTRO 4.7UF 25WV	
C320,321			CK73GB1H103K	CHIP C 0.010UF K	
C401,402		✻	CE32CL1C100M	CHIP EL 10UF 16WV	
C403,404			CD04AS1C220M	ELECTRO 22UF 16WV	
C405,406		✻	CE32CL1C100M	CHIP EL 10UF 16WV	
C407,408			CD04AS1C220M	ELECTRO 22UF 16WV	
C409,410		✻	CE32CL1C100M	CHIP EL 10UF 16WV	
C411,412			CD04AS1C220M	ELECTRO 22UF 16WV	
C435-438			CK73GB1C104K	CHIP C 0.10UF K	
C439			CK73FB1C334K	CHIP C 0.33UF K	
C440			CK73GB1A334K	CHIP C 0.33UF K	
C441			CK73FB1C334K	CHIP C 0.33UF K	
C442			CK73GB1A334K	CHIP C 0.33UF K	
C443			CK73FB1C334K	CHIP C 0.33UF K	
C444			CK73GB1A334K	CHIP C 0.33UF K	
C445			CK73FB1C334K	CHIP C 0.33UF K	
C446			CK73GB1A334K	CHIP C 0.33UF K	
C447		✻	C92-1883-05	ELECTRO 1UF 50WV	
C448			CK73GB1H103K	CHIP C 0.010UF K	
C449		✻	CD04AS1C470M	ELECTRO 47UF 16WV	
C453,454		✻	CD04AS1H3R3M	ELECTRO 3.3UF 50WV	
C455			CK73GB1A474K	CHIP C 0.47UF K	
C456			CC73GCH1H221J	CHIP C 220PF J	
C457,458			CK73GB1C104K	CHIP C 0.10UF K	
C461			CK73GB1H103K	CHIP C 0.010UF K	
C462-465			CK73FB1C105K	CHIP C 1.0UF K	
C466-469			CK73FB1A225K	CHIP C 2.2UF K	
C470,471			CK73FB1C105K	CHIP C 1.0UF K	
C476,477			CK73FB1C105K	CHIP C 1.0UF K	
C478		✻	C92-1884-05	ELECTRO 2.2UF 50WV	

K : North America

⚠ Indicates safety critical components.

PARTS LIST

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ELECTRIC UNIT (X34-3000-10)

Ref. No.	Add	New	Parts No.	Description	Destination
C479,480			CD04AS1HR47M	ELECTRO 0.47UF 50WV	
C481-485			CK73FB1C105K	CHIP C 1.0UF K	
C501-506			CK73GB1H222K	CHIP C 2200PF K	
C509			CK73FB1C105K	CHIP C 1.0UF K	
C510			CK73FB1C474K	CHIP C 0.47UF K	
C511			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C512			CK73FB1C474K	CHIP C 0.47UF K	
C513			CK73GB1H103K	CHIP C 0.010UF K	
C514			CK73FB1C105K	CHIP C 1.0UF K	
C515		✻	CD04AS1C330M	ELECTRO 33UF 16WV	
C516-519			C90-5620-05	ELECTRO 0.47UF 50WV	
C520			CK73FB1C105K	CHIP C 1.0UF K	
C521,522		✻	CD04BA1H010M	ELECTRO 1UF 50WV	
C523,524			CK73FB1C105K	CHIP C 1.0UF K	
CN2		✻	E41-2083-05	FLAT CABLE CONNECTOR	
CN3		✻	E41-2101-05	FLAT CABLE CONNECTOR	
CN5		✻	E41-2123-05	PIN ASSY	
CN6		✻	E41-0956-05	PIN ASSY	
CN7		✻	E41-0944-05	PIN ASSY	
⚠ J1		✻	E58-0991-05	RECTANGULAR RECEPTACLE	
J2		✻	E56-0855-05	CYLINDRICAL RECEPTACLE	
J3		✻	E63-0897-05	PIN JACK	
W3			E30-6218-05	CORD WITH PLUG	
L1		✻	L33-1988-05	CHOKE COIL ASSY	
L2		✻	L33-1978-05	CHOKE COIL	
L3		✻	L33-1902-15	SMALL FIXED INDUCTOR	
L4			L33-1029-05	SMALL FIXED INDUCTOR	
L101			L40-2205-34	SMALL FIXED INDUCTOR (22UH)	
L201			L40-4795-68	SMALL FIXED INDUCTOR (4.7UH)	
L202			L92-0075-05	CHIP FERRITE	
L301		✻	L33-1977-05	CHOKE COIL	
L302-305			L40-1005-68	SMALL FIXED INDUCTOR	
L401			L40-4795-68	SMALL FIXED INDUCTOR (4.7UH)	
X1		✻	L77-2880-05	CRYSTAL RESONATOR	
X2			L78-0862-05	RESONATOR (16.00MHZ)	
P	2D		N83-3005-46	PAN HEAD TAPTITE SCREW	
S	2D		N80-3010-46	PAN HEAD TAPTITE SCREW	
T	2D		N82-2608-46	BINDING HEAD TAPTITE SCREW	
U	2D		N83-3020-46	PAN HEAD TAPTITE SCREW	
CP202			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP203			RK74GB1J102J	CHIP-COM 1.0K J 1/16W	
CP204			RK74GA1J103J	CHIP-COM 10K J 1/16W	
CP205		✻	RK74GA1J222J	CHIP-COM 2.2K J 1/16W	
CP206			RK74GB1J102J	CHIP-COM 1.0K J 1/16W	
CP207-209			RK74GB1J101J	CHIP-COM 100 J 1/16W	
R1			RK73FB2B223J	CHIP R 22K J 1/8W	
R2			RK73GB2A101J	CHIP R 100 J 1/10W	
R3			RK73GB2A223J	CHIP R 22K J 1/10W	
R4			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R5			RK73FB2B221J	CHIP R 220 J 1/8W	
R6			RK73GB2A153J	CHIP R 15K J 1/10W	
R7		✻	RK73GH2A432D	CHIP R 4.3K D 1/10W	
R8		✻	RK73GH2A243D	CHIP R 24K D 1/10W	
R9,10			RK73FB2B152J	CHIP R 1.5K J 1/8W	

Ref. No.	Add	New	Parts No.	Description	Destination
R11			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R12			RK73FB2B751J	CHIP R 750 J 1/8W	
R14			RK73GB2A473J	CHIP R 47K J 1/10W	
R15,16			RK73GB2A104J	CHIP R 100K J 1/10W	
R101			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R102,103			RK73EB2E103J	CHIP R 10K J 1/4W	
R104			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R105			RK73GB2A750J	CHIP R 75 J 1/10W	
R106			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R107			RK73GB2A470J	CHIP R 47 J 1/10W	
R108			RK73GB2A752J	CHIP R 7.5K J 1/10W	
R109			RK73GB2A274J	CHIP R 270K J 1/10W	
R110			RK73GB2A563J	CHIP R 56K J 1/10W	
R111			RK73GB2A470J	CHIP R 47 J 1/10W	
R112			RK73GB2A103J	CHIP R 10K J 1/10W	
R113,114			RK73GB2A913J	CHIP R 91K J 1/10W	
R115			RK73FB2B472J	CHIP R 4.7K J 1/8W	
R116,117		✻	R92-5024-05	CHIP R 1.0K J 3/4W	
R118			RK73GB2A223J	CHIP R 22K J 1/10W	
R119			RK73FB2B472J	CHIP R 4.7K J 1/8W	
R120		✻	R92-5024-05	CHIP R 1.0K J 3/4W	
R121			RK73GB2A223J	CHIP R 22K J 1/10W	
R122		✻	R92-5024-05	CHIP R 1.0K J 3/4W	
R123			RK73FB2B561J	CHIP R 560 J 1/8W	
R124			RK73GB2A223J	CHIP R 22K J 1/10W	
R125			RK73GB2A473J	CHIP R 47K J 1/10W	
R126			RK73GB2A104J	CHIP R 100K J 1/10W	
R127			RK73GB2A103J	CHIP R 10K J 1/10W	
R128			RK73FB2B203J	CHIP R 20K J 1/8W	
R129			RK73GB2A104J	CHIP R 100K J 1/10W	
R130			RD14DB2H332J	SMALL-RD 3.3K J 1/2W	
R131			RK73EB2E473J	CHIP R 47K J 1/4W	
R132			RK73EB2E101J	CHIP R 100 J 1/4W	
R133,134			RK73GB2A103J	CHIP R 10K J 1/10W	
R135			RK73GB2A183J	CHIP R 18K J 1/10W	
R136			RK73GB2A104J	CHIP R 100K J 1/10W	
R137			RK73GB2A223J	CHIP R 22K J 1/10W	
R138		✻	RK73FB2B683J	CHIP R 68K J 1/8W	
R139			RK73GB2A393J	CHIP R 39K J 1/10W	
R140			RK73GB2A333J	CHIP R 33K J 1/10W	
R141			RK73GB2A474J	CHIP R 470K J 1/10W	
R201			RK73GB2A104J	CHIP R 100K J 1/10W	
R202			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R206			RK73GB2A104J	CHIP R 100K J 1/10W	
R207			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R208			RK73GB2A103J	CHIP R 10K J 1/10W	
R210,211			RK73GB2A473J	CHIP R 47K J 1/10W	
R212			RK73GB2A104J	CHIP R 100K J 1/10W	
R213-215			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R216			RK73GB2A223J	CHIP R 22K J 1/10W	
R217,218			RK73GB2A473J	CHIP R 47K J 1/10W	
R219,220			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R221,222			RK73GB2A471J	CHIP R 470 J 1/10W	
R223			RK73GB2A101J	CHIP R 100 J 1/10W	
R224			RK73GB2A472J	CHIP R 4.7K J 1/10W	

K : North America

⚠ Indicates safety critical components.

PARTS LIST

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ELECTRIC UNIT (X34-3000-10)

Ref. No.	Add	New	Parts No.	Description	Destination
R225			RK73GB2A101J	CHIP R 100 J 1/10W	
R226			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R227			RK73GB2A104J	CHIP R 100K J 1/10W	
R228			RK73GB2A473J	CHIP R 47K J 1/10W	
R229			RK73GB2A471J	CHIP R 470 J 1/10W	
R230			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R231			RK73GB2A471J	CHIP R 470 J 1/10W	
R232			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R236			RK73GB2A473J	CHIP R 47K J 1/10W	
R239			RK73GB2A101J	CHIP R 100 J 1/10W	
R240			RK73GB2A473J	CHIP R 47K J 1/10W	
R241			RK73GB2A101J	CHIP R 100 J 1/10W	
R245			RK73GB2A473J	CHIP R 47K J 1/10W	
R247			RK73GB2A473J	CHIP R 47K J 1/10W	
R250,251			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R252			RK73GB2A101J	CHIP R 100 J 1/10W	
R253			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R254			RK73GB2A473J	CHIP R 47K J 1/10W	
R257-259			RK73GB2A473J	CHIP R 47K J 1/10W	
R261,262			RK73GB2A473J	CHIP R 47K J 1/10W	
R265			RK73GB2A473J	CHIP R 47K J 1/10W	
R272-274			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R275			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R276-278			RK73GB2A473J	CHIP R 47K J 1/10W	
R279			RK73GB2A104J	CHIP R 100K J 1/10W	
R280,281			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R282,283			RK73GB2A104J	CHIP R 100K J 1/10W	
R284,285			RK73GB2A101J	CHIP R 100 J 1/10W	
R301			RK73FB2B102J	CHIP R 1.0K J 1/8W	
R302			RK73GB2A223J	CHIP R 22K J 1/10W	
R307,308			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R309			RK73GB2A241J	CHIP R 240 J 1/10W	
R310,311			RK73GB2A103J	CHIP R 10K J 1/10W	
R312			RK73GB2A124J	CHIP R 120K J 1/10W	
R313			RK73GB2A104J	CHIP R 100K J 1/10W	
R314			RK73FB2B472J	CHIP R 4.7K J 1/8W	
R315			RK73FB2B223J	CHIP R 22K J 1/8W	
R316			RK73GB2A223J	CHIP R 22K J 1/10W	
R317			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R318			RK73EB2E101J	CHIP R 100 J 1/4W	
R319,320			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R321-323			RK73EB2E101J	CHIP R 100 J 1/4W	
R324			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R325			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R326,327			RK73GB2A104J	CHIP R 100K J 1/10W	
R328			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R329			RK73GB2A471J	CHIP R 470 J 1/10W	
R330			RK73GB2A104J	CHIP R 100K J 1/10W	
R332			RK73GB2A471J	CHIP R 470 J 1/10W	
R401			RK73GB2A820J	CHIP R 82 J 1/10W	
R402			RK73GB2A103J	CHIP R 10K J 1/10W	
R403,404			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R405			RK73GB2A103J	CHIP R 10K J 1/10W	
R406			RK73GB2A820J	CHIP R 82 J 1/10W	
R408,409			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R411,412			RK73GB2A361J	CHIP R 360 J 1/10W	
R413			RK73GB2A820J	CHIP R 82 J 1/10W	
R414			RK73GB2A103J	CHIP R 10K J 1/10W	
R415,416			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R417			RK73GB2A103J	CHIP R 10K J 1/10W	
R418			RK73GB2A820J	CHIP R 82 J 1/10W	
R420,421			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R423,424			RK73GB2A361J	CHIP R 360 J 1/10W	
R425			RK73GB2A820J	CHIP R 82 J 1/10W	
R426			RK73GB2A103J	CHIP R 10K J 1/10W	
R427,428			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R429			RK73GB2A103J	CHIP R 10K J 1/10W	
R430			RK73GB2A820J	CHIP R 82 J 1/10W	
R432,433			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R435,436			RK73GB2A361J	CHIP R 360 J 1/10W	
R461			RK73GB2A103J	CHIP R 10K J 1/10W	
R462			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R463,464			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R468			RK73FB2B361J	CHIP R 360 J 1/8W	
R469,470			RK73FB2B473J	CHIP R 47K J 1/8W	
R471,472			RK73FB2B361J	CHIP R 360 J 1/8W	
R473,474			RK73FB2B473J	CHIP R 47K J 1/8W	
R475			RK73FB2B361J	CHIP R 360 J 1/8W	
R480,481			RK73GB2A104J	CHIP R 100K J 1/10W	
R505			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R506-508			RK73EB2E471J	CHIP R 470 J 1/4W	
R509			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R510			RK73EB2E101J	CHIP R 100 J 1/4W	
R511			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R512,513			RK73EB2E101J	CHIP R 100 J 1/4W	
R514			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R515,516			RK73EB2E101J	CHIP R 100 J 1/4W	
R517			RK73EB2E100J	CHIP R 10 J 1/4W	
R518			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R519			RK73EB2E100J	CHIP R 10 J 1/4W	
R520			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R521			RK73GB2A473J	CHIP R 47K J 1/10W	
R522			RK73GB2A752J	CHIP R 7.5K J 1/10W	
R523			RK73GB2A100J	CHIP R 10 J 1/10W	
R524			RK73GB2A432J	CHIP R 4.3K J 1/10W	
R525			RK73GB2A223J	CHIP R 22K J 1/10W	
R526,527			RK73GB2A221J	CHIP R 220 J 1/10W	
R528			RK73GB2A683J	CHIP R 68K J 1/10W	
R529			RK73GB2A103J	CHIP R 10K J 1/10W	
W6			R92-1252-05	CHIP R 0 OHM J 1/16W	
S1,2		✻	S68-0886-05	PUSH SWITCH	
D1		✻	S2V60✻A	DIODE	
D2			RB160L-40	DIODE	
D3			UDZS5.6B	ZENER DIODE	
D4			UDZS8.2B	ZENER DIODE	
D5		✻	SFPB-54VNF	DIODE	
D6		✻	HZU11(B1)-E	ZENER DIODE	
D7		✻	HZU9.1(B1)-E	ZENER DIODE	
D101		✻	UDZS11B	ZENER DIODE	

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ELECTRIC UNIT (X34-3000-10)

Ref. No.	Add	New	Parts No.	Description	Destination
D102			UDZS5.6B	ZENER DIODE	
D103-107			1SR154-400	DIODE	
D108			UDZS5.6B	ZENER DIODE	
D109			UDZS4.7B	ZENER DIODE	
D110,111			UDZS6.8B	ZENER DIODE	
D112			UDZS6.2B	ZENER DIODE	
D113,114			DAP202U	DIODE	
D115			DAN202U	DIODE	
D201			DAP202U	DIODE	
D301		✻	IMSA-6801-E	SURGE ABSORBER	
D304			DA204K	DIODE	
D305		✻	STZ6.2N	ZENER DIODE	
D306-312			DA204K	DIODE	
D313		✻	STZ6.2N	ZENER DIODE	
D314			STZ6.8N	ZENER DIODE	
D315			DA204U	DIODE	
D406			DAP202U	DIODE	
D501-504		✻	STZ6.2N	ZENER DIODE	
D505,506			STZ6.8N	ZENER DIODE	
D507-510			1SR154-400	DIODE	
D511,512			DAP222	DIODE	
D513-516			1SR154-400	DIODE	
D517		✻	STZ6.2N	ZENER DIODE	
D519-522			DA204U	DIODE	
IC1		✻	30624MGPA27GP	MICROCONTROLLER IC	
IC2		✻	E-TDA7414	ANALOGUE IC	
IC3			M5237ML	ANALOGUE IC	
IC4		✻	E-TDA7560A	ANALOGUE IC	
IC5		✻	E-TDA7401	ANALOGUE IC	
IC7		✻	SI-8050JDNF	ANALOGUE IC	
IC8			ICL7660SIBA	ANALOGUE IC	
IC10		✻	TC7W02FU-F	MOS-IC	
IC11		✻	PST3436UL-E	MOS-IC	
IC13		✻	LB1930M-E	ANALOGUE IC	
IC14		✻	TA75S558F-F	ANALOGUE IC	
IC15-17		✻	NJM4565M-ZB	ANALOGUE IC	
IC20		✻	SI-3050KD	ANALOGUE IC	
Q1			2SB1565	TRANSISTOR	
Q2			2SC4081	TRANSISTOR	
Q3			2SA1576A	TRANSISTOR	
Q4			DTC124EE	DIGITAL TRANSISTOR	
Q4		✻	PDTC124EE	TRANSISTOR	
Q5,6			UMC2N	TRANSISTOR	
Q7			2SB1188(R)	TRANSISTOR	
Q8			2SB1565	TRANSISTOR	
Q9,10			2SC4081	TRANSISTOR	
Q11			2SB1565	TRANSISTOR	
Q12			DTC144EUA	DIGITAL TRANSISTOR	
Q13			UMC2N	TRANSISTOR	
Q15			2SB1565	TRANSISTOR	
Q16			2SC4617	TRANSISTOR	
Q17			2SB1443	TRANSISTOR	
Q18			2SC4081	TRANSISTOR	
Q19		✻	2SA1774	TRANSISTOR	
Q20			2SC4617	TRANSISTOR	
Q21		✻	2SA1774	TRANSISTOR	
Q22			2SC4081	TRANSISTOR	
Q23			2SA1576A	TRANSISTOR	
Q24			2SC4081	TRANSISTOR	
Q25			2SB1188(Q,R)	TRANSISTOR	
Q26			DTC114YUA	DIGITAL TRANSISTOR	
Q27			2SB1188(Q,R)	TRANSISTOR	
Q28			2SA1576A	TRANSISTOR	
Q29			DTA114EUA	DIGITAL TRANSISTOR	
Q30			DTC114YE	DIGITAL TRANSISTOR	
Q30		✻	PDTC114YE	TRANSISTOR	
Q31			DTA123JK	DIGITAL TRANSISTOR	
Q32			DTC144EUA	DIGITAL TRANSISTOR	
Q33			2SC4081	TRANSISTOR	
Q34		✻	2SA1774	TRANSISTOR	
Q35			2SC4617	TRANSISTOR	
Q36			2SC4081	TRANSISTOR	
Q37-40			DTA124EUA	DIGITAL TRANSISTOR	
Q41			2SA1576A	TRANSISTOR	
Q42			DTC124EUA	DIGITAL TRANSISTOR	
Q44			DTC124EUA	DIGITAL TRANSISTOR	
Q45			2SB1188(R)	TRANSISTOR	
Q46			DTC124EUA	DIGITAL TRANSISTOR	
Q47-52			DTC143TUA	DIGITAL TRANSISTOR	
Q56-59			DTC143TUA	DIGITAL TRANSISTOR	
Q60			DTC124EE	DIGITAL TRANSISTOR	
Q60		✻	PDTC124EE	TRANSISTOR	
TH1		✻	PRF21BD471QB2	POSITIVE RESISTOR	
A1		✻	W02-3439-05	ELECTRIC CIRCUIT MODULE	
A2	2D	✻	X86-3760-11	FRONT-END UNIT	

CD MECHANISM ASSY (X92-4910-00)

2	1B		A10-4827-32	CHASSIS	
5	1B	✻	D10-4576-83	ARM ASSY	
8	2A		D10-4579-13	LEVER ASSY	
10	2A		D10-4581-13	ARM	
11	2A		D10-4582-13	ARM	
12	3A		D10-4583-03	ARM	
13	3A		D10-4584-03	ARM	
14	3B		D10-4585-03	ARM	
15	2A		D10-4586-13	SLIDER	
16	3B	✻	D10-4587-42	SLIDER	
17	2B		D10-4588-13	SLIDER	
18	2B		D10-4595-04	ARM	
19	3B	✻	D10-4596-24	ARM	
22	2A		D13-2151-04	GEAR	
23	2B		D13-2152-04	GEAR	
24	3B		D13-2153-04	GEAR	
25	3B		D13-2154-04	GEAR	
26	3B		D13-2155-04	WORM	
27	2B		D13-2156-14	GEAR	
28	3B		D13-2157-04	GEAR	
29	3B		D13-2158-04	GEAR	

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CD MECHANISM ASSY (X92-4910-00)

Ref. No.	Add	New	Parts No.	Description	Destination
30	2B		D13-2168-04	GEAR	
31	3B		D13-2171-04	GEAR	
32	2B	✻	D13-2172-13	RACK (GEAR)	
33	2A		D14-0759-04	ROLLER	
35	2B		D21-2382-04	SHAFT	
36	1A		D23-0954-04	RETAINER	
37	1B		D39-0246-05	DAMPER	
38	2B		G01-3072-04	EXTENSION SPRING	
39	2A		G01-3073-04	TORSION COIL SPRING	
40	2A		G01-3074-04	EXTENSION SPRING	
41	1B		G01-3075-14	EXTENSION SPRING	
42	2A		G01-3076-04	EXTENSION SPRING	
43	1B		G01-3077-14	EXTENSION SPRING	
44	2B		G02-1399-04	FLAT SPRING	
45	2B		G02-1408-04	FLAT SPRING	
51	1A	✻	J21-9676-32	MOUNTING HARDWARE	
52	3B		J21-9677-22	MOUNTING HARDWARE	
53	1B		J21-9678-13	MOUNTING HARDWARE	
55	1A		J90-1001-11	GUIDE	
56	1B		J90-1023-03	GUIDE	
A	2B		N09-4460-05	TAPTITE SCREW (OVAL P TAPTIT)	
B	1B		N09-4472-15	MACHINE SCREW (M1.7X8.0)	
C	2B		N09-6004-05	MACHINE SCREW (M1.7X2.5 IB-L)	
E	2B		N09-6007-05	MACHINE SCREW (PAN M2X2)	
F	1A		N09-6051-05	TAPTITE SCREW (BIND P 2X5)	
G	2A		N19-2163-04	FLAT WASHER	
H	1B		N39-2020-46	PAN HEAD MACHIN SCREW	
J	1B		N09-6108-05	MACHINE SCREW (M2✻3.5TYPE3)	
K	3B		N09-6155-05	SEMS (TAPTITE SCREW) (PT2X6)	
DM1	3B		T42-1066-04	DC MOTOR ASSY (SP)	
DM2	2B		T42-1067-04	DC MOTOR ASSY (LO)	
DPU1	2B		X93-2010-00	OPTICAL PICKUP ASSY	

Ref. No.	Add	New	Parts No.	Description	Destination

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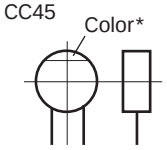
PARTS LIST

CAPACITORS

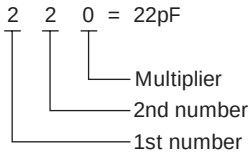
CC 45 TH 1H 220 J
1 2 3 4 5 6

1 = Type ... ceramic, electrolytic, etc.
2 = Shape ... round, square, etc.
3 = Temp. coefficient
4 = Voltage rating
5 = Value
6 = Tolerance



• Capacitor value

010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001μF
103 = 0.01μF



• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	–80	–150	–220	–330	–470	–750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = –470±60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 –20	+80 –20	+100 –0	More than 10μF : –10~+50 Less than 4.7μF : –10~+75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

2nd word / 1st word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	–
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	–
3	1000	1250	1600	2000	2500	2150	4000	5000	6300	8000	–

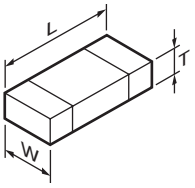
CHIP CAPACITORS

(EX) CC 73 F SL 1H 000 J
1 2 3 4 5 6 7
(Chip) (CH, RH, UJ, SL)

(EX) CK 73 F F 1H 000 Z
1 2 3 4 5 6 7
(Chip) (B, F)

Refer to the table above.
1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

• Dimension



Chip capacitor

Code	L	W	T
Empty	5.6±0.5	5.0±0.5	Less than 2.0
A	4.5±0.5	3.2±0.4	Less than 2.0
B	4.5±0.5	2.0±0.3	Less than 2.0
C	4.5±0.5	1.25±0.2	Less than 1.25
D	3.2±0.4	2.5±0.3	Less than 1.5
E	3.2±0.2	1.6±0.2	Less than 1.25
F	2.0±0.3	1.25±0.2	Less than 1.25
G	1.6±0.2	0.8±0.2	Less than 1.0
H	1.0±0.05	0.5±0.05	0.5±0.05

Chip resistor

Code	L	W	T
E	3.2±0.2	1.6±0.2	1.0
F	2.0±0.3	1.25±0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1
H	1.0±0.05	0.5±0.05	0.35±0.05

RESISTORS

• Chip resistor (Carbon)

(EX) RD 73 E B 2B 000 J
1 2 3 4 5 6 7
(Chip) (B, F)

• Carbon resistor (Normal type)

(EX) RD 14 B B 2C 000 J
1 2 3 4 5 6 7
(Chip) (B, F)

1 = Type ... ceramic, electrolytic, etc.
2 = Shape ... round, square, etc.
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

• Rating wattage

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

KDC-X679

SPECIFICATIONS

FM
Frequency Range (Frequency step)
..... 87.9MHz~107.9MHz (200kHz)
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 (DIN) ..... ≧80dB (±400kHz)
Stereo Separation 40dB (1kHz)

AM
Frequency Range (Frequency step)
..... 530kHz~1700kHz (10kHz)
Channel Space Selection 9k/10kHz
Usable Sensitivity (S/N 20dB) 28dBµ (25µV)

CD
Laser Diode ..... GaAlAs
Digital Filter (D/A) ..... 8 Times OverSampling
D/A Converter ..... 1 Bit
Spindle Speed (rpm) ..... 1000~400 (CLV 2 times)
Wow & Flutter ..... Below Mesurable Limit
Frequency Response ..... 10Hz~20kHz (±1dB)
Total Harmonic Distortion 0.008% (1kHz)
S/N Ratio 110dB (1kHz)
Dynamic Range 93dB
Channel Separation 96dB
MP3 Decode ..... Compliant with MPEG-1/2 Audio Layer-3
WMA Decode ..... Compliant with WINDOWS MEDIA AUDIO

Preout Level/Load-Unbalanced 5000mV/10kΩ
Preout Impedance ..... ≦80Ω

AMP
Maximum Power ..... 50W x 4
Full Bandwidth Power (at less than 1% THD) ..... 22W x 4

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

GENERAL
Operating voltage (11~16V allowable) 14.4V
Current Consumption 10A
Installation Size (W x H x D) ..... 182 x 53 x 155 mm
7-3/16 x 2-1/16 x 6-1/10 in
Weight 1.40kg (3.09lbs)

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

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