

CD RECEIVER

KDC-MP628
KDC-MP7028
KDC-MP728
KDC-MP8029
KDC-W7031/Y

SERVICE MANUAL

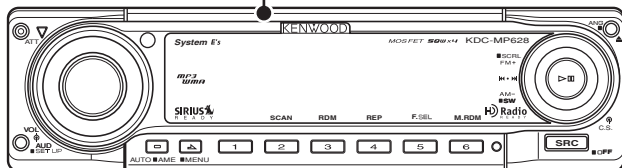
KENWOOD

Kenwood Corporation

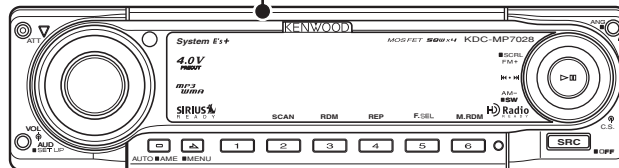
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B53-0266-00 (N) 1708

CD MECHANISM EXTENSION
CORD (24P) : **W05-0934-00**

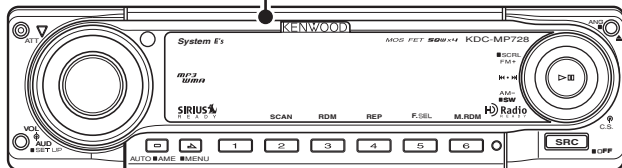
Panel assy
KDC-MP628 (A64-3507-12)



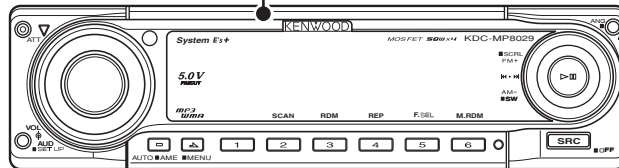
Panel assy
KDC-MP7028 (A64-3665-02)



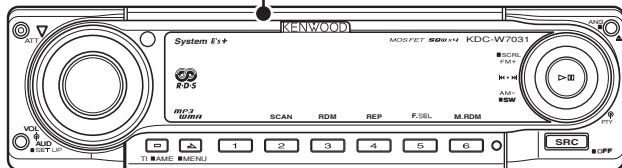
Panel assy
KDC-MP728 (A64-3506-12)



Panel assy
KDC-MP8029 (A64-3513-12)



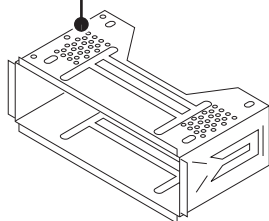
Panel assy
KDC-W7031/Y (A64-3508-12)



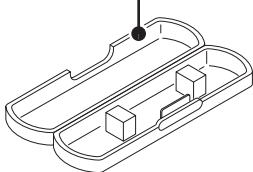
SPARE TDF PANEL

MAIN UNIT NAME	TDF PARTS No.	TDF NAME
KDC-MP628	Y33-2200-62	TDF-MP75D
KDC-MP7028	Y33-2200-60	TDF-MP75DB
KDC-MP728	Y33-2200-62	TDF-MP75D
KDC-MP8029	Y33-2200-63	TDF-MP8029
KDC-W7031/Y	Y33-2200-64	TDF-W7031

Mounting hardware assy
(J21-9716-03)



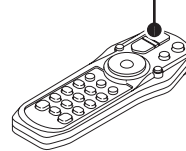
Plastic cabinet assy
(A02-2732-03)



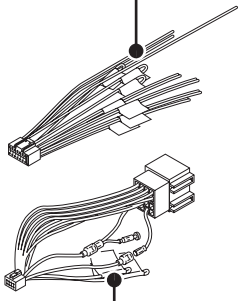
* Screw set
(N99-xxxx-xx)



* Remote controller assy (RC-527)
(A70-2067-05)

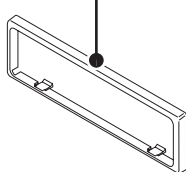


* DC cord
(E30-xxxx-xx)



* DC cord
(E30-6412-05)

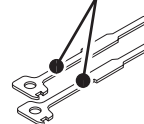
* Escutcheon
(B07-xxxx-xx)



* Antenna adaptor
(T90-0523-05)



Lever
(D10-4589-04) x2



* Tapping screw
(N09-xxxx-xx)

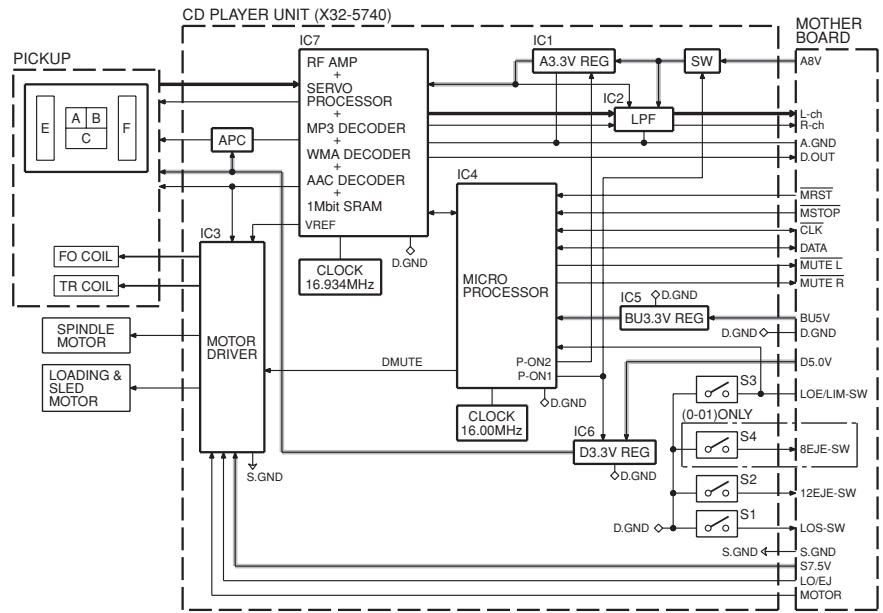
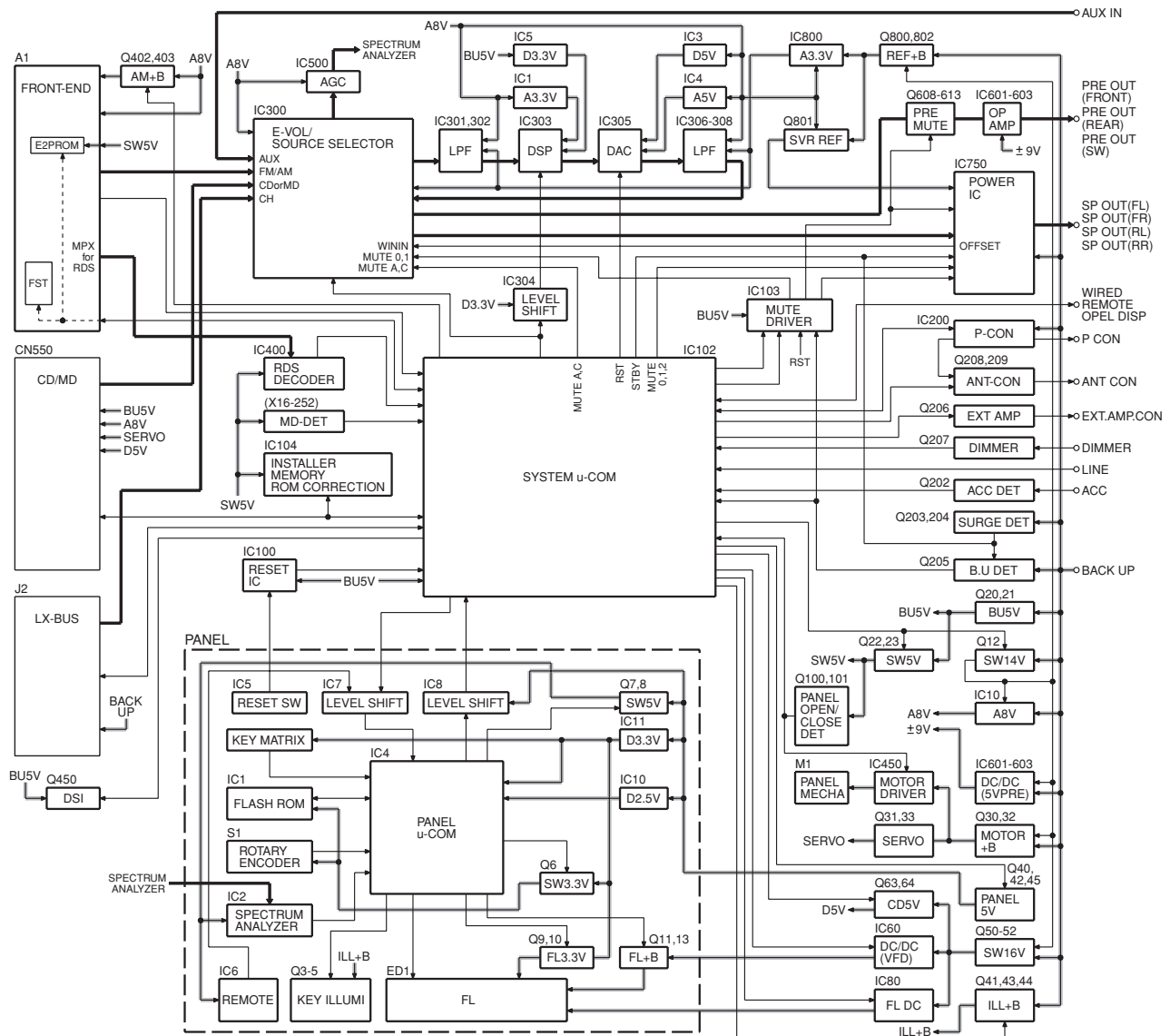


* Depends on the model. Refer to the parts list.

This product uses Lead Free solder.



BLOCK DIAGRAM



COMPONENTS DESCRIPTION

● ELECTRIC UNIT (X34-3xxx-xx)

Ref. No.	Application / Function	Operation / Condition															
IC10	AUDIO8V REF POWER SUPPLY	1.27V output															
IC60	SWITCHING REGULATOR CONTROLLER	VFD / Mechanism digital power supply. OUT1 : VFD (4.7V), OUT2 : Mechanism digital (5V)															
IC80	FL+B	VFD power supply (57V)															
IC100	RESET IC	"L" when detection voltage is 3.6V or less															
IC102	SYSTEM μ -COM	FM/AM tuner / Changer / CD mechanism / Panel / Volume / Tone control															
IC103	MUTE DRIVER	Mute control															
IC104	E2PROM	Installer memory															
IC200	POWER CONTROL IC	Power control switching															
IC300	E-VOL & SOURCE SELECTOR	Source / Volume / Tone control															
IC400	RDS DECODER																
IC450	PANEL MECHA MOTOR DRIVER	<table border="1"> <thead> <tr> <th>IN1</th> <th>IN2</th> <th>PANEL MECHA</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>L</td> <td>WAIT</td> </tr> <tr> <td>L</td> <td>H</td> <td>OPEN</td> </tr> <tr> <td>H</td> <td>L</td> <td>CLOSE</td> </tr> <tr> <td>H</td> <td>H</td> <td>STOP</td> </tr> </tbody> </table>	IN1	IN2	PANEL MECHA	L	L	WAIT	L	H	OPEN	H	L	CLOSE	H	H	STOP
IN1	IN2	PANEL MECHA															
L	L	WAIT															
L	H	OPEN															
H	L	CLOSE															
H	H	STOP															
IC451	G-ANALYZER	Analog gravity sensor															
IC500	SPECTRUM ANALYZER BUFFER AMP & AGC	Spectrum analyzer buffer / Auto gain control															
IC600	\pm 9V AVR	5V pre-out power supply															
IC601~603	5V PREOUT AMP	Buffer/Gained control															
IC750	POWER IC	Front L/R and a rear L/R signal amplification															
IC800	AUDIO3.3V REF SUPPLY / SVR6.8V REF SUPPLY	Supplying audio 3.3V reference voltage to E-VOL/LPF Supplying SVR6.8V reference voltage to IC750 (POWER IC)															
Q10,11	AUDIO8V AVR	When Q11 base is "H", A8V is output															
Q12	SW14V	When base is "H", SW14V is output															
Q20,21	B.U.5V AVR	When backup is "ON", BU5V is output															
Q22,23	SW5V	When Q23 base is "H", SW5V is output															
Q30,32	MOTOR+B AVR (PANEL MECHA)	When Q9 base is "H", 7.5V MOTOR+B is output															
Q31,33	SERVO+B AVR	When Q33 base is "H", 8V SERVO+B is output															
Q40,42,45	PANEL5V AVR	When Q42 base is "H", PANEL5V is output															
Q41,43,44	ILLUMINATION AVR	When Q43 base is "H", 10.5V ILLUMI voltage is output															
Q50~52	SW16W (SERGE PROTECTION)	When Q51 base is "H", SW16V (13V) is output															
Q60	VFD (4.7V) AVR SW	When base is "H", VFD AVR is turned "OFF"															
Q61	SWITCHING REGULATOR FREQUENCY CONTROL SW (IC60)	<table border="1"> <thead> <tr> <th colspan="2"></th> <th colspan="2">F SEL2 (BASE)</th> </tr> <tr> <th colspan="2"></th> <th>L</th> <th>H</th> </tr> </thead> <tbody> <tr> <th rowspan="2">F SEL1 (BASE)</th> <th>L</th> <td>400kHz</td> <td>600kHz</td> </tr> <tr> <th>H</th> <td>650kHz</td> <td>850kHz</td> </tr> </tbody> </table>			F SEL2 (BASE)				L	H	F SEL1 (BASE)	L	400kHz	600kHz	H	650kHz	850kHz
		F SEL2 (BASE)															
		L	H														
F SEL1 (BASE)	L	400kHz	600kHz														
	H	650kHz	850kHz														

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition
Q62	MECHA DIGITAL AVR SW	When base is "H", MECHA DIGITAL AVR is turned "OFF"
Q63	VFD (4.7V) AVR SWITCHING POWER DRIVER	Controlled by IC60 and Q61 determines frequency
Q64	MECHA DIGITAL AVR POWER DRIVER	Controlled by IC60 (Frequency is fixed to 400kHz)
Q80,81	VFD (57V) AVR SW	When Q81 base is "H", VFD (57V) is output
Q91	PANEL5V DISCHARGE SW	When base is "H", PANEL5V is discharged
Q100,101	PANEL DETECT SW	When Q100 base is "L", panel is detected
Q200,201	PREOUT MUTE DRIVER	When base is "L", MUTE DRIVER is turned "ON"
Q202	ACC DETECT SW	When base is "H", ACC voltage is detected
Q203,204	SERGE DETECT SW	When Q204 base is "H", IC750 (POWER IC) is turned to standby.
Q205	BU DETECT SW	When Q35 base is "H", backup voltage is detected
Q206	EXT AMP CONTROL BUFFER	Output buffer from IC102 (μ -COM)
Q207	SMALL LAMP DETECT SW	When base is "H", small lamp is detected
Q208,209	POWER ANTENNA SW	Q206 base is "H", 14V POWER ANTENNA voltage is output
Q402,403	AM+B SW	When Q403 base is "H", AM+B is output
Q450	DSI DRIVER	When base is "H", DSI is turned "ON". When base is "L", DSI is turned "OFF". When panel is off, DSI blinks.
Q500	SPECTRUM ANALYZER AGC CONTROLLER	When excess input is made, feed-back is interrupted which slows down output.
Q600~602	PRE-AMP +9V AVR	Q600 and Q602 function as differential amplifier. Q601 functions as a driver and +9.4V is supplied to op amp for pre-out.
Q603~605	PRE-AMP -9V AVR	Q603 and Q605 function as differential amplifier. Q604 functions as a driver and -9.1V is supplied to op amp for pre-out.
Q606,607	AUDIO 10.5V AVR	When Q606 base is "H", 10.5V is output
Q608~613	PREOUT MUTE SW	When base is "H", pre-out is muted
Q800,802	REF+B AVR	When Q800 base is "H", 13V is output
Q801	SVR6.8V REF SUPPLY AGC CONTROLLER	When backup voltage is down, feed-back is interrupted which slows down output.

● SWITCH UNIT (X16-2950-1x / X16-3122-72)

Ref. No.	Application / Function	Operation / Condition
IC1	ROM IC / FLASH ROM IC	Display image data storage
IC2	SPECTRUM ANALYZER	6-ch band pass filter
IC4	PANEL μ -COM	
IC5	RESET IC	Functions when panel is attached
IC6	REMOTE CONTROL	
IC7	LEVEL SHIFT	Conversion from 5V level to 3.3V
IC8	LEVEL SHIFT	Conversion from 3.3V level to 5V
IC9	BUFFER	Functions when controlling fluorescent indicator tube (ED1)
IC10	2.5V REGULATOR	For 2.5V power supply
IC11	3.3V REGULATOR	For 3.3V power supply
Q1	TRIANGLE GREEN LED SW	Lights up when base is "H"

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition
Q2	TRIANGLE RED LED SW	Lights up when base is "H"
Q3	BLUE LED SW	Lights up when base is "H"
Q4	GREEN LED SW	Lights up when base is "H"
Q5	RED LED SW	Lights up when base is "H"
Q6	SW3.3V SW	When base is "L", SW3.3V is supplied to IC1 and IC3
Q7,8	SW5V SW	When Q8 base is "H", SW5V is supplied to IC2 and IC6
Q9,10	FL3.3V SW	When Q9 base is "H", FL+3.3V (VDD1) is supplied to fruoresent indicator tube
Q12	FL BLK SW	When base is "H", fruoresent indicator tube (ED1) lights up
Q11,13	FL+B SW	When Q11 base is "H", FL+B (VDD2) is supplied to fruoresent indicator tube

● CD PLAYER UNIT (X32-5740-0x)

Ref. No.	Application / Function	Operation / Condition
IC1	A3.3V regulator	Power supply for audio 3.3V
IC2	Ope amp for low-pass filter	
IC3	4ch BTL driver	Driving spindle motor and loading/ejection operation
IC4	μ-com	
IC5	Bu 3.3V regulator	Power supply for backup 3.3V
IC6	D3.3V regulator	Digital 3.3V power supply
IC7	Audio DAC built-in servo DSP	MP3, WMA, and AAC compatible
IC8	Memory IC	Used only for 0-02 destination
IC11	Buffer IC	Level shift
Q1	A3.3V discharge circuit	
Q4	Electric AMP	Adjusts current to be sent to laser
Q5,6	SW 5V	
Q7,8	SW 8V	
D1	For electric AMP	

MICROCOMPUTER'S TERMINAL DESCRIPTION

● SYSTEM MICROCOMPUTER : IC102 (X34- : ELECTRIC UNIT)

Pin No.	Pin Name	I/O	Function	Processing Operation
1	VREF	-	Analog reference voltage	
2	AVCC	-		
3	LX DATA S	I	Data from slave unit	
4	LX DATA M	O	Data to slave unit	
5	LX CLK	I/O	LX-BUS clock	
6	WIRED REMO	I	External display remoter controller	
7	LX MUTE	I	Mute request from slave unit	H : MUTE ON, L : MUTE OFF
8	AUD SDA	O	E-VOL data	SPI communication
9	AUD SEL	O	E-VOL control	SPI communication
10	AUD SCL	O	E-VOL clock	SPI communication
11	$\overline{\text{DAC RST}}$	O	DAC reset	L : DAC RESET
12	NC	-	Not used	
13	BYTE	-	GND	
14	CNVSS	-		
15	XCIN	I	Clock	32,768kHz
16	XCOU	I	Clock	32,768kHz
17	$\overline{\text{RESET}}$	I	Reset	
18	XOUT	-	Clock	12MHz
19	VSS	-	GND	
20	XIN	-	Clock	12MHz
21	VCC1	-		
22	NMI	I		
23	PANEL DET	I	Panel detection	H : No panel, L : Panel exists
24	RDS CLK	I	RDS decoder clock	
25	LX REQ S	I	Communication request from slave unit	
26	PON AM	I/O	AM power supply control	AM in operation : H, AM not in operation : HI-Z
27	LX REQ M	O	Communication request to slave unit	
28	TUN IFC OUT	I	Front-end IFC out	H : Station exists, L : No station
29	RDS AFS L	I/O	Time constant switching when noise detected	Refer to Truth Value Table (RDS AFS)
30	RDS AFS M	I/O	Time constant switching when noise detected	Refer to Truth Value Table (RDS AFS)
31	RDS QUAL	I	RDS decoder QUAL	
32	RDS DATA	I	RDS decoder DATA	
33	PWIC BEEP	O	Beep	
34	TUN SCL	I/O	Front-end I2C clock	MAX 400kHz
35	TUN SDA	I/O	Front-end I2C data	
36	SYS DATA	O	Inside-panel communication data	MAX 500kbps
37	VCC1	-		
38	PAN DATA	I	Inside-panel communication data	MAX 500kbps
39	VSS	-		
40	SYS REQ	O	Communication request from system μ -com	
41	PAN REQ	I	Communication request from panel	
42	SDA	I/O	E2PROM I2C data	MAX 100kHz

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Function	Processing Operation
43	SCL	I/O	E2PROM I2C clock	MAX 100kHz
44	PON PANEL	I/O	Panel 5V control	ON : H (Momentary power down/Panel detached) 11 Minutes after ACC OFF : Hi-Z
45	DSI	I/O	DSI control	
46~49	NC	-	Not used.	
50	PM MOT1	O	Panel motor control 1	Refer to Truth Value Table (PANEL MOTOR)
51	PM MOT2	O	Panel motor control 2	Refer to Truth Value Table (PANEL MOTOR)
52	EPM	I	Flash EPM	
53	PM OPEN	I	Panel full open detection	Refer to Truth Value Table (PANEL MECHA)
54~56	NC	-	Not used	
57	P5V DIS	I/O	Panel 5V discharge control	H : Discharge, Other : Hi-Z
58	PM CLOSE	I	Panel mechanism close detection	Refer to Truth Value Table (PANEL MECHA)
59	ROMCOR DET	I	E2PROM write request	H : Write
60	PM DET	I	Panel mechanism detection	H : Function check in progress
61	SC CON	O	Inside-panel communication (Chip enable when flash)	POWER OFF, ACC OFF : L
62	NC	-	Not used	
63	TUN TYPE1	I	Destination setting 1	TUN TYPE1 : L, TUN TYPE2 : L
64	TUN TYPE2	I	Destination setting 2	TUN TYPE1 : L, TUN TYPE2 : L
65,66	NC	-	Not used	
67	CD DISC12 SW	I	12cm CD detection	
68	CD LOS SW	I	CD loading detection	
69	CD MUTE R	I	CD mute (Rch) request	L : Rch mute request
70	CD MUTE L	I	CD mute (Lch) request	L : Lch mute request
71	$\overline{\text{CD MRST}}$	O	CD mechanism microcomputer reset	L : Reset, H : Normal
72	$\overline{\text{CD MSTOP}}$	O	CD mechanism microcomputer stop	L : Mechanism microcomputer stop, H : Mechanism microcomputer in operation
73	NC	-	Not used	
74	CD LOE LIM SW	I	CD detection (Chucking SW)	H : Loading complete, L : No disc
75	CD LOEJ	I/O	CD motor control	Refer to Truth Value Table (CD MOTOR / CD LOEJ)
76	CD MOTOR	O	CD motor control	Refer to Truth Value Table (CD MOTOR / CD LOEJ)
77	PON ILLUMI	I/O	Key illumination power supply control	ON : H, OFF : Hi-Z
78	PON CD	I/O	CD/WMA power supply control	At time of CD source: H, Other than CD : Hi-Z
79	PON	O	Power supply control	POWER ON : H, POWER OFF : L
80	PON FL+B	O	Fruorescent indicator tube bias power supply control	POWER ON : H, POWER OFF or display black out : L
81	PON FDC	I/O	Fruorescent indicator tube filament power supply control	POWER ON : L, POWER OFF or display black out : Hi-Z
82	F SEL1	O	SW-Reg frequency switching	
83	F SEL2	O	SW-Reg frequency switching	
84	DIAG	I/O	P-CON excess current surveillance	
85	VCC2	-		
86	EXT AMP CON	I/O	External amplifier control	
87	VSS	-		
88~91	TYPE 1~TYPE4	I	Destination switching	
92	NC	-	Not used	

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Function	Processing Operation
93	OEM DISP DATA	I/O	External display DATA	External display
94	OEM DISP CLK	I/O	External display CLK	External display
95	OEM DISP CE	I/O	External display control request	External display
96	NC	-	Not used.	
97	P CON	O	External amplifier control	POWER ON : H, POWER OFF or STANDBY : L
98	NC	-	Not used.	
99	ANT CONT	O	Power antenna control	TUNER ON : H
100	ILLUMI DET	I	Dimmer illumination detection	L : ON, H : OFF
101	BU DET	I	Momentary power down detection	BU : L, No BU or momentary power down : H
102	ACC DET	I	ACC power supply detection	ACC ON : L, ACC OFF : H
103	(PWIC SVR)	O	SVR discharge circuit	H : 5 seconds after POWER OFF and momentary power down, Then : L
104	PWIC MUTE	O	Power IC mute	L : When STANDBY source or momentary power down, L : When TEL MUTE
105	PWIC STBY	O	Power IC standby control	POWER ON : H, POWER OFF : L
106	LX CON	O	Start up request to slave unit	H : SLAVE UNIT ON, L : SLAVE UNIT OFF
107	MUTE PRE R	O	Rch pre-out mute	L : When "MUTE PRE R" is "L" or at momentary power down, H : Only when 2-zone
108	CD MUTE PRE L	O	Lch pre-out mute	L : When "MUTE PRE L" is "L" or at momentary power down, H : Only when 2-zone
109	MUTE 0	O	E-VOL front mute	ON : L, OFF : H
110	MUTE 1	O	E-VOL rear mute	ON : L, OFF : H
111	MUTE 2	O	E-VOL sub mute	ON : L, OFF : H
112	MUTE A	O	E-VOL spctrum analyzer mute	ON : L, OFF : H
113	DSP MUTE	I/O	DSP mute	ON : L, OFF : Hi-Z
114	MUTE C	O	E-VOL AFS mute	ON : L, OFF : H
115	DSP INIT RST	O	DSP initial reset	L : Reset, H : Reset release
116	DSP S RST	O	DSP system reset	L : Reset, H : Reset release
117	DSP RQ	O	Request to DSP	L : Request
118	DSP CS	O	DSP chip select	L : Select
119	NC (GTEST)	O	Not used	
120	LINE MUTE	I	Line mute detect	TEL MUTE : 1V or less, NAVI MUTE : 1V or less, 2.5V or more
121	MD DET	I	For a terminal of MD receiver	
122	PWIC DC DET	I	DC offset error detect	
123	LX RST	O	Hard reset to slave unit	H : Reset, L : Normal
124	G Y OUT	I	Analog Y gravity detect	
125	G X OUT	I	Analog X gravity detect	
126	RDS NOISE	I	FM noise detection	
127	AVSS	-		
128	TUN SMETER	I	S-meter input	

MICROCOMPUTER'S TERMINAL DESCRIPTION

Truth Value Table

CD MOTOR / CD LOEJ

	CD MOTOR	CD LOEJ
Standby	L	Hi-Z
Eject	H	H
Load	H	L
Brake	H	Hi-Z
Use prohibited	L	L

PANEL MECHA

	FULL OPEN	FULL CLOSE	OTHER
PM OPEN	H	L	L
PM CLOSE	H	L	H

PANEL MOTOR

	OPEN	CLOSE	STOP	WAIT
PM MOT1	L	H	H	L
PM MOT2	H	L	H	L

RDS AFS

	RDS AFS M	RDS AFS L	Condition
AFS LOW	L	L	No sound output with AF search
AFS MID	L	Hi-Z	Sound output with AF search
AFS HIGH	Hi-Z	Hi-Z	Normal reception

● PANEL MICROCOMPUTER : IC4 (X16- : SWITCH UNIT)

Pin No.	Pin Name	I/O	Function	Processing Operation
1~7	D14~D8	I/O	Data input/output	
8	3.3VDD	-		3.3V
9	VSS	-		Connect to GND
10~17	D7~D0	I/O	Data input/output	
18	FLGCP1	O	FL harmony control	Lighting timing (brightness harmony) is controlled with pulse interval. GCP=FLGCP1+FLGCP2
19	NC	-	Not used	
20	SYS REQ	I	System μ -com communication request	H : Data communication
21	SC CON	I	System μ -com communication/Panel operation control	H : Panel operation
22	FL BK	O	Fruorescent indicator blackout control	H : Fruorescent indicator turned on, L : turned off
23	2.5VDD	-		2.5V
24	VSS	-		Connect to GND
25	NC	-	Not used	
26,27	$\overline{KS1}$, $\overline{KS2}$	I/O	Key scan	L : Output, Hi-Z : Switching
28,29	TD0, TD1	-	Not used	
30,31	$\overline{KS3}$, $\overline{KS4}$	I/O	Key scan	L : Output, Hi-Z : Switching
32	TRST	-		Pull down
33	$\overline{ROTARY CCW}$	I	Rotary A	1-pulse/2-click, 15-pulse/360°
34	$\overline{ROTARY CW}$	I	Rotary B	1-pulse/2-click, 15-pulse/360°
35,36	TMS, TCM	-	Not used	
37	3.3VDD	-		3.3V
38	EVSS	-		Connect to GND
39	$\overline{KS5}$	I/O	Key scan	L : Output, Hi-Z : Switching
40~42	$\overline{KR1}$, $\overline{KR2}$, $\overline{KR3}$	I	Key return	
43	FLGCP2	O	Fruorescent indicator harmony control	Lighting timing (brightness harmony) is controlled with pulse interval. GCP=FLGCP1+FLGCP2
44	PAN REQ	O	Panel communication request	H : Data communication in progress

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Function	Processing Operation
45	$\overline{\text{SYS DATA}}$	I	Data reception from system μ -com	UART communication 500kbps
46	$\overline{\text{PAN DATA}}$	O	Data transmission from panel	UART communication 500kbps
47	$\overline{\text{FL CLK}}$	O	Fruorescent indicator serial communication reference clock	Reference clock 4.125MHz
48	$\overline{\text{KR4 INT}}$	I	Key return	Interruption possible
49	$\overline{\text{FL DATA1}}$	O	Fruorescent indicator serial control data	
50	$\overline{\text{CLK IN3}}$	I	Serial synchronization clock	Synchronized to Fruorescent indicator CLK
51	$\overline{\text{FL EL}}$	O	Fruorescent indicator skip shift control	H or Hi-Z : Odd number skip, L : Even number skip
52	$\overline{\text{FL DATA2}}$	O	Fruorescent indicator serial control data	
53	$\overline{\text{CLK IN2}}$	I	Serial synchronization clock	Synchronized to Fruorescent indicator CLK
54	$\overline{\text{FL LAT}}$	O	Fruorescent indicator latch control	
55	$\overline{\text{FL DATA3}}$	O	Fruorescent indicator serial control data	
56	3.3VDD	-		3.3V
57,58	X2,X1	I	Clock	6.6MHz
59	CVSS	-		Connect to GND
60	CKSEL	-		Connect to GND
61	PSEL	-		Connect to VDD
62	2.5VDD	-		2.5V
63	VSS	-		Connect to GND
64	MODE0	-		Connect to GND
65	MODE1	-		Pull down
66	$\overline{\text{PAN RST}}$	I	Input from reset IC	
67	AVDD1	I	D/A conversion reference voltage	Connect to D3.3V
68,69	NC	-		Pull down
70,71	AVSS1,AVSS0	-	D/A conversion reference GND	
72	AVDD0	-	A/D conversion reference voltage	Connect to D3.3V
73	WAVE IN	I	Voice input	AD read
74	F01	I	BPF (63Hz)	AD read
75	F02	I	BPF (150Hz)	AD read
76	F03	I	BPF (330Hz)	AD read
77	F04	I	BPF (1kHz)	AD read
78	F05	I	BPF (3.3kHz)	AD read
79	F06	I	BPF (10kHz)	AD read
80	NC	-		Pull down
81	2.5VDD	-		2.5V
82	VSS	-		Connect to GND
83	NC	-	Not used	
84	TYPE	I	Whether there is customizing or not designation setting	H : Flash ROM (This model), L : Mask ROM (Other model)
85	NC (VREFCON)	O	Not used	
86	REMO	I	Remote controller signal	Detection with pulse width
87	PON FL+B	O	Fruorescent indicator bias power supply switch	H : ON, L : OFF
88	PON FLVDD	I/O	Fruorescent indicator logic section power supply switch	H : ON, Hi-Z : OFF
89	PON 5V	I/O	5V power supply switch	Remote controller IC / Space analyzer IC power supply H : ON, Hi-Z : OFF

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Function	Processing Operation
90~93	NC	-	Not used	
94	\overline{WE}	I/O	Memory data write permission	L : Write, H : Wait SW3.3V start up : Hi-Z
95	\overline{OE}	I/O	Memory data transmission permission	L : Data transmission, H : Wait SW3.3V start up : Hi-Z
96,97	NC	-	Not used	
98	3.3VDD	-		3.3V
99	VSS	-		Connect to GND
100	FROMCHK	-	Not used	
101	\overline{CE}	I/O	Memory operation permission	L : Operation, H : Wait SW3.3V start up : Hi-Z
102~104	NC	-	Not used	
105	$\overline{ROMCOR SCL}$	-	Not used	
106	$\overline{ROMCOR SDA}$	-	Not used	
107	NC (SEL E2P)	-	Not used	
108	PON TRI GREEN	I/O	Triangle green light ON switch	H : Light ON, Hi-Z : Light OFF, When blackout : Light ON
109	PON TRI RED	I/O	Triangle red light ON switch	H : Light ON, Hi-Z : Light OFF
110	PON BLUE	I/O	Blue sub-illumination light ON switch	H : Light ON, Hi-Z : Light OFF
111	SA RST	O	Spectrum analyzer IC reset	H : Reset (1.8V or higher), L : Normal
112	3.3VDD	-		3.3V
113	EVSS	-		Connect to GND
114	PON GREEN	I/O	Green key illumination light ON switch	H : Light ON, Hi-Z : Light OFF
115	PON RED	I/O	Red illumination light ON switch	H : Light ON, Hi-Z : Light OFF
116	PON SW3V	I/O	Rotary encoder power supply	L : ON, Hi-Z : OFF
117	NC	O	Not used	
118~123	A21~A16	O	Address output	
124	2.5VDD	-		2.5V
125	VSS	-		Connect to GND
126~133	A15~A8	O	Address output	
134	3.3VDD	-		3.3V
135	EVSS	-		Connect to GND
136~142	A7~A1	O	Address output	
143	NC	-	Not used	
144	D15	I/O	Data input/output	

MICROCOMPUTER'S TERMINAL DESCRIPTION

● MECHANISM MICROCOMPUTER : IC4 (X32- : CD PLAYER UNIT)

Pin No.	Pin Name	I/O	Application	Processing Operation Description	Remarks
1	NC	O	Not used.	Low-fixed	
2	E2P_SCL	I/O	Rom correction E2P I2C clock		
3~5	NC	O	Not used.	Low-fixed	
6	VDD	-	5V electric potential		
7	GND	-	GND electric potential		
8,9	NC	O	Not used.	Low-fixed	
10,11	PON1,PON2	O	Power ON/OFF control	H : ON, L : OFF	
12	LOE/LIM_SW	I	Down-limit SW detection	L : Lim detection	
13	DAC_MUTE	O	DAC MUTE control	H : MUTE ON, L : MUTE OFF	Used only with DXM-6590W. With DXM-6580W, open and L-fixed.
14	DAC_RST	O	DAC RESET	H : NORMAL, L : RESET	Used only with DXM-6590W. With DXM-6580W, open and L-fixed.
15	EMPH	O	External DAC Emphasis control	H : Emphasis ON, L : Emphasis OFF	Used only with DXM-6590W. With DXM-6580W, open and L-fixed.
16,17	NC	O	Not used.	Low-fixed	
18	IC/Vpp	-	Write voltage (FLASH)	L : Normal operation, H : In writing.	
19	MUTE_L	O	Lch audio MUTE control	L : MUTE ON, H : MUTE OFF	
20	MUTE_R	O	Rch audio MUTE control	L : MUTE ON, H : MUTE OFF	
21	TYPE	I	DAC switching terminal	H : DSP built-in DAC used, L : DSP built-in DAC Not used.	H : DXM-6580W, L : DXM-6590W
22	TEST_O 1	O	TEST MODE O 1	(Not used.)	
23	TEST_O 2	O	TEST MODE O 2	(Not used.)	
24	TEST_O 3	O	TEST MODE O 3	(Not used.)	
25	TEST_O 4	O	TEST MODE O 4	(Not used.)	
26	NC	O	Not used.	Low-fixed	
27	WAIT	I	Wait control signal detection		
28~30	NC	O	Not used.	Low-fixed	
31	RESET	I	Reset detection	H : NORMAL, L : RESET	
32	XT1	I	Not used.		
33	XT2	-	Not used.		
34	REGC	-			
35	X2	-			
36	X1	I			
37	Vss	-	GND electric potential		
38	VDD	-	5V electric potential		
39	NC	O	NC	Output stopped in standby	3.3V driven
40	WRL	I	Multiplex WRITE signal		3.3V driven
41,42	NC	O	Not used.	Low-fixed	3.3V driven
43	RD	O	Multiplex RD signal		3.3V driven

* DXM-6580W : X92-5080-00, DXM-6590W : X92-5190-00

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Processing Operation Description	Remarks
44	ASTB	O	Multiplex ASTB signal		3.3V driven
45	NC	O	Not used.	Low-fixed	3.3V driven
46	NC	O	Not used.	Low-fixed	3.3V driven
47~54	AD0~AD7	I/O	Multiplex address/data		3.3V driven
55	BVdd	-	Bus interface power supply		
56	BVss	-	Bus interface GND		
57~61	AB8~AB12	I/O	Multiplex data/address		3.3V driven
62~65	NC	O	Not used.	Low-fixed	3.3V driven
66	CS	O	Chip select control	H : OFF, L : ON	3.3V driven
67	DSP RESET	O	DSP reset control	H : NORMAL, L : RESET	3.3V driven
68~70	NC	O	Not used.	Low-fixed	3.3V driven
71	Avdd	-			
72	Avss	-			
73	Avref	I	A/D port reference voltage input		
74	NC	I	Not used.	Low-fixed	
75	RAMSEL	I	With DRAM/No DRAM switching for different models	H : With DRAM, L : No DRAM	
76	RZM	I	0bit MUTE detection	H : $\geq 1.7V$, L : $< 1.7V$	
77	LZM	I	0bit MUTE detection	H : $\geq 1.7V$, L : $< 1.7V$	
78	AAC	I	AAC compatibility switching	H : AAC non-compatible, L : AAC compatible	AAC non-compatible mode has priority for both hardware and software.
79	ASEL	I	Audio output polarity switching	H : Reverse output, L : Non-reverse output	
80	E2P_WR	I	E2PROM write switching	H : E2PROM WRITE, L : NORMAL	
81	TEST_I 0	I	TEST MODE I 0	(Not used.)	
82	TEST_I 1	I	TEST MODE I 1	(Not used.)	
83	TEST_I 2	I	TEST MODE I 2	(Not used.)	
84	TEST_I 3	I	TEST MODE I 3	(Not used.)	
85	NC	I	Not used.	Low-fixed	
86	NC	O	Not used.	Low-fixed	
87	MSTOP	I	Standby restart interruption	H : STOP release, L : STOP	
88	INTSV	I	Interruption from servo IC	H : Interruption	
89~92	NC	O	Not used.	Low-fixed	
93	D-MUTE	O	Driver MUTE	H : OFF, L : ON	
94	SYS_SDA	I/O	System μ -com I2C data		Flash write port (SI0)
95	NC	O	Not used.	Low-fixed	Flash write port (SO0)
96	SYS_SCL	I/O	System μ -com I2C clock		Flash write port (SCK0)
97~99	NC	O	Not used.	Low-fixed	
100	E2P_SDA	I/O	ROM correction E2P I2C data		

TEST MODE

● How to enter the test mode

In order to enter the test mode, reset the unit while simultaneously pressing down [1] and [3] keys.

● How to clear the test mode

The test mode is cleared in case of any of the following events: resetting, momentary power down, Acc OFF, Power OFF and removal of the panel.

● Initial conditions of the test mode

- Source is STANDBY.
- Displays lights are all turned on.
- The volume is at -10dB (The display is 30).
- Loudness (LOUD) is OFF.
- CRSC is OFF, regardless of whether there are switching functions or not.
- SYSTEM Q is NATURAL (=FLAT).
- BEEP will sound anytime with a less than 1 second push.
- Auxiliary (AUX) is ON.
- DISPLAY TYPE is TYPE D.
- The Multi-function Key System are source dependent systems. (TUNER → Preset, CD / CD-CH → Scan, etc.)
- Display of TUNER sources will be as follows :
European Models : Upper Display=PS/frequency, Middle Display=spectrum analyzer, Lower Display=multi-function
Other Models : Upper Display=SNPS, Middle Display =spectrum analyzer, Lower Display=multi-function
- CD source display will be as follows :
All Models : Upper Display=P-TIME, Middle Display= spectrum analyzer, Lower Display=multi-function
- SWPRE is SUB WOOFER.

● RDS automatic measurement

Conventionally, the PS display has been visually checked on the production line. This will be replaced by a new processing. The PS data will be received and the PS contents is to be verified as "RDS_TEST". When this is verified, the P-CON terminal is forced to go OFF. (In this case, "_" means blank.)

→ This will be a dedicated test mode processing.

On the P-CON, when power is turned off once and, then, turned on again, (Power OFF → ON) the unit will be restarted.

● Special display when set to TUNER

When in TUNER mode, if any of the following displays appear, there is an abnormality with the front end.

- "TNE2P_NG" : At production site, the E2PROM is still with the default (unspecified) value, due to the fact that the front-end being shipped without going through the adjustment process.
- "TNCON_NG" : In this condition, the communication with the front-end is not possible.

● Forced switching of K3I

In TUNER FM mode, each time [6] key is pressed, the functions move in the following cycle :

AUTO → forced WIDE → forced MIDDLE → force NARROW → AUTO

The initial condition is AUTO and the displays below will appear.

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

● CD receiver test mode specifications

- Jumps are made to the following tracks by pressing the [▶▶1] key.
No. 9 → No. 15 → No. 10 → No. 11 → No. 12 → No. 13 → No. 22 → No. 14 → No. 9 (Returns to the beginning)
It must be noted, however, that when paying MP3 / WMA / AAC disk, which contain 8 files or less, the first track and the following tracks are played in order.
- When [◀◀1] key is pressed, it goes down by 1 track.
- When a CD is used as a source, by pressing [1] key for less than 1 second, a jump to the Track No. 28 is made.
- When a CD is used as a source, by pressing [2] key for less than 1 second, a jump to the Track No. 14 is made.
- When a CD is used as a source, by pressing [3] key for less than 1 second, a display of CD mechanism model name and its version is made. When the pressing of [3] key for less than 1 second is made for the second time, the normal display is resumed. (Time code display)
- When a CD is used as a source, by pressing [6] key for less than 1 second, a jump to the Track No. 15 is made. At the same time, the volume value is set to 25 (2V PRE) and 27 (5V PRE).

TEST MODE

● Audio adjust mode

Model with no DSP

- By pressing [AUD] key for less than 1 second, the audio adjustment mode can be entered.
- Using the remote controller [*] key and [AUD] key, the audio adjustment mode can be entered.
- Adjustment items of both the AUDIO FUNCTION MODE and SETUP MODE are included.
- The initial item will be Fader, which is followed by : Balance → Bass Level → Middle Level → Treble Level → (Sub Woofer Level) → HPF Front → HPF Rear → LPF Sub Woofer (After this, it will be arbitrary)
- With the remote controller, continuous forwarding is prohibited.
- Using the VOL knob, the Fader can be adjusted in 3 steps : R15 ↔ 0 ↔ F15 (The initial value is 0)
- Using the VOL knob, the Balance can be adjusted in 3 steps : L15 ↔ 0 ↔ R15 (The initial value is 0)
- Using the VOL knob, the Bass / Middle / Treble Level can be adjusted in 3 steps : -8 ↔ 0 ↔ +8 (The initial value is 0)
- Using the VOL knob, the Sub Woofer Level can be adjusted in 3 steps : -15 ↔ 0 ↔ +15 (The initial value is 0)
- Using the VOL knob, the Volume Offset can be adjusted in 2 steps : -8 ↔ 0 (The initial value is 0)
- Using the VOL knob, the HPF Front / Rear can be adjusted in 2 steps : Through ↔ 180Hz (or 220Hz) (The initial value is Through)
- Using the VOL knob, the LPF Sub Woofer can be adjusted in 2 steps : 60Hz (or 50Hz) ↔ Through (The initial value is Through)
- Using the VOL knob, the Sub Woofer Phase can be adjusted in 2 steps : Reverse ↔ Normal (The initial value is Normal)
- Using the VOL knob, the Volume Offset can be adjusted in 2 steps : -8 ↔ 0 (The initial value is 0)
- Using the VOL knob, the Loudness ON/OFF can be adjusted in 2 steps : OFF ↔ ON (The initial value is OFF)
- 2-Zone ON/OFF can be adjusted in 2 steps : OFF ↔ ON (The initial value is OFF)
- Bass f / Bass Q / Bass EXT / Middle f / Middle Q / Treble f do not appear in audio adjustments.

● MENU items

- Push the [NEXT] (NEXT) key for at least 1 second to enter the MENU.
- The [DNPP/SBF] and [DIRECT] keys on the remote controller can also be used to enter the MENU.
- With the remote controller, continuous forwarding is prohibited.
- When a CD is used as a source, the default item will be the ACD F/W Version.

● 2-ZONE (Dual Zone) items

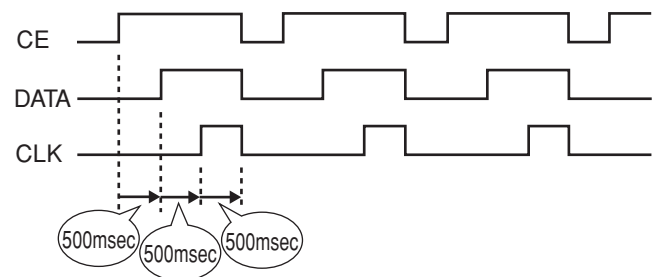
- When using sources other than the STANDBY source, using a short-press on [AUTO] or [TI] key, 2-ZONE ON/OFF is achieved.

● Backup current measurement

When reset in Acc OFF (Back Up ON) condition, MUTE terminal goes off after 2 seconds, instead of 15 seconds. (During this time, the CD mechanism does not function.)

● OPEL communication items

During the test mode, OPEL communication line outputs the following (At every 500msec, the output condition of the communication line will be switched.)



● G sensor display items

When source is STANDBY, by short-pressing [ATT] key, the display is switched to analog meter display, in which vertical G and horizontal G are displayed.

TEST MODE

● Special display when all lights are on

When all lights are on with the STANDBY source, the following displays are made when the keys shown below are pressed.

[1] key	Version display (Display) C-408WK_SYS_1. 23 (Display) _____PAN_1. 11 (Display) _____MEM_3. 21
[2] key	Serial number display (8 digits) (Display) SNo_XXXXXXXX
[3] key	Press for less than 1 second : Power ON time is displayed. During Power On time display, by pressing for at least 2 seconds, the Power ON time is cleared. (Display) PonTim_XXXXX MAX 65535 (hours)
[4] key	Press for less than 1 second : CD operation time is displayed. During CD operation time display, by pressing for at least 2 seconds, CD operation time is cleared. (Display) CDTim_0XXXXX MAX 65535 (hours)
[5] key	Press for less than 1 second : CD EJECT number is displayed. During CD EJECT number display, by pressing for at least 2 seconds, CD EJECT number display is cleared. (Display) EjeCnt_XXXXX MAX 65535 (times)
[6] key	Press for less than 1 second : PANEL Open/close number is displayed. (*1) During PANEL Open/close number display, by pressing for at least 2 seconds, PANEL Open/close numbers is cleared. (Display) PnCnt_XXXXXX MAX 65535(times)
[FM] key	ROM correction version display (Display) SYS_ROM_R123 (Display) PAN_ROM_R123 When E2PROM is not installed : ROM_ERR_ When un-written : ROM_R --- When data is incompatible : ROM_R * * *
▶▶I key	AUDIO data default value setting (Display) AUDIO_INIT

◀◀ key	Press for less than 1 second : CD mechanism error log display During CD mechanism error log display; by pressing for at least 2 seconds, all error log information is cleared. (Display) I2C_●● (Display) ERR_1-▲▲, 2-▲▲, 3-▲▲ * In “●●”, “OK” or “NG” is displayed. In “▲▲”, “- -” or an error code is displayed.
--------	---

(*1) : 1 count is made when the panel opens to full or when a disc is loaded.

● Initializing AUDIO-related value setting

During STANDBY sourcing, by pressing [▶▶I] key for less than 1 second, AUDIO setting values are returned to the default values.

● Flash ROM check

- In order to prevent the Flash ROM (4M) equipped models to be installed with the Mask ROM (2M) panel, and to prevent the Mask ROM (2M) equipped models to be installed with the Flash ROM (4M) panels, with the STANDBY sources during the test mode, the following display will be made according to the system μ -com and panel combination.
 - Flash ROM (4M) equipped model and Flash ROM (4M) panel
All lights turned on --- OK!
 - Mask ROM (2M) equipped model and Mask ROM (2M) panel
All lights turned on --- OK!
 - Flash ROM (4M) equipped model and Mask ROM (2M) panel
“M4P2” --- NG!
 - Mask ROM (2M) equipped model and Flash ROM (4M) panel
“M2P4” --- NG!
- When entering the test mode, the manufacture code of the Flash ROM (4M) is read and when it is normal, FROMCHK of the 100th terminal (Panel μ -com) repeats Hi → Low → Hi · · · . If the reading is abnormal, “Low” is output.
If the manufacture code is normal, by pressing [▶▶I] key for less than 1 second, the connection checks on all terminal is started. If the connections are normal, the FROMCHK terminal stops the Hi → Low → Hi · · · repeating and outputs “Hi”. If the reading is abnormal, “Low” is output.

TEST MODE

- With all lights turned on and by pressing [AM] key for at least 1 second, the data on the Flash ROM (4M) is initialized. While erasing the data, "Data_Erase..." is displayed.

Note : Do not touch any key while this is in progress.

When erasing is complete, "Erase_OK!!" is displayed.

If "Erase_NG!!!!!" is displayed, it was not possible to erase the data on the Flash ROM (4M).

In this case, pressing [AM] key for at least 1 second again.

If it is the same, then there is an abnormality with the Flash ROM.

● Other

- At Power ON, "CODE_OFF", "CODE_ON" displays will not be made.
- When sourcing STANDBY, by pressing [AUTO] or [TI] key for less than 1 second, GREEN/RED of the key illumination is switched.
When doing this, the triangle illumination GREEN/RED is switched along with the key illumination.
- When starting up in the test mode, LINE MUTE prohibition time is set to 1 second instead of 10 seconds.
- While in the test mode, even when a DC offset error is detected, the detection information will not be written to the E2PROM.
- While in the test mode, even after an elapse of pre-set time, the backup memory items will not be written to the E2PROM.
- Information Clear mode for Test Mode, backup/installer memory, and CD mechanism error log.
In the DC offset error detection information clear mode, DEMO mode operation will not be conducted.
Also, in the above mode, the menu of the STANDBY source will not display DEMO ON/OFF switching items.
- While in the test mode, and at the same time, PM_DET of the 60th terminal (System μ -com) is H, the following will apply to the EJECT key, regardless of whether a disc is in the unit or not.
Panel full OPEN/CLOSE is conducted with a push for less than 1 second. (Protection time : 3 seconds)
As far as this item is concerned, eject will be achieved by for at least 1 second push on the EJECT key.

● Clearing backup memory and installer memory data (Clearing E2PROM data)

- By pressing [NEXT] key and [ATT] key simultaneously, reset and start the unit. This will start the initialization processes for backup and installer memory data and the error log information of the CD mechanism.

- When initialization is complete, the following display will be made.

Normal completion

```
CD_E2P____:○
AUDIO_E2P:○
```

Abnormal ending 1 : backup/installer memory initialization : NG

```
CD_E2P____:○
AUDIO_E2P:×
```

Abnormal ending 2 : CD mechanism error log initialization : NG

```
CD_E2P____:×
```

Abnormal ending 3 : All initialization : NG

```
CD_E2P____:×
```

- While in this mode, even after an elapse of a pre-set time, no backup memory items will be written to the E2PROM.
- This mode is released by resetting. (What was on the last screen will not be retained.)

● Clearing DC offset error detection information (E2PROM data clear)

- While simultaneously pressing down on [3] and [6] keys, reset the unit to enter the DC offset error display mode.
- During STANDBY sourcing, the current DC offset error conditions will be displayed.
When error detected : "DC_ERR"
When error not detected : "DC_OK"
- While the error conditions are being displayed, press [AUTO] or [TI] key for less than 1 second to clear the detection information. (E2PROM clear)
- DC offset error display mode is released by resetting. (What was on the last screen will not be retained.)

TEST MODE

● FM/AM channel space switching

(KDC-MP628/MP7028/MP728/MP8029)

From the Power OFF condition, while pressing [1] and [5] keys down simultaneously, press the [SRC] key and turn power ON.

● Security

• Forced Power ON mode

While “----” is being displayed, by resetting while pressing [NEXT] (NEXT) key and [4] key simultaneously, it is possible to turn the power ON for 30 minutes only.

● Method of clearing the programmable security code (KDC-MP628/MP7028/MP728)

1. While “----” is being displayed, press [▶▶1] key for at least 3 seconds while pressing [AUTO] key.
This makes “----” display disappear.
2. Using the remote controller, input “KCAR”.
Press remote controller [5] key 2 times (Input for “K”) and then press [▶▶1] key.
Press remote controller [2] key 3 times (Input for “C”) and then press [▶▶1] key.
Press remote controller [2] key once (Input for “A”) and then press [▶▶1] key.
Press remote controller [7] key 2 times (Input for “R”) and then press [▶▶1] key.
3. The security is released and the unit enters the STANDBY mode.
4. If a wrong code is input, the unit goes into the Code Request mode.

• How to register the security code on the “Car Audio Passport” after replacement of the E2PROM (KDC-MP8029/W7031/W7031Y)

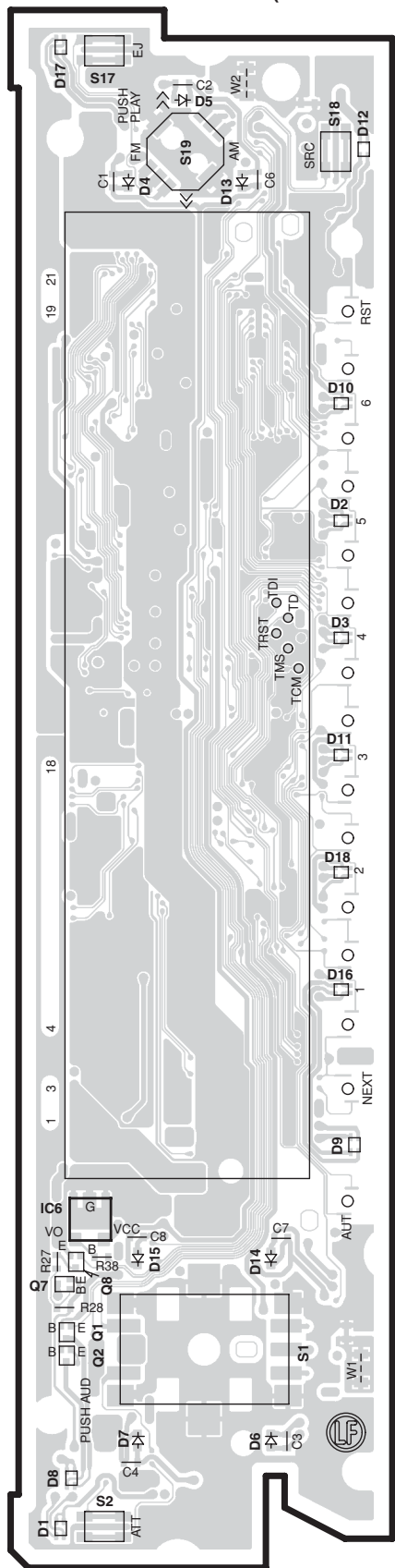
1. Enter the test mode. (Refer to the section on “How to Enter the Test Mode.”)
2. Enter the MENU by long pressing [NEXT] (NEXT) key for one second.
While “Security” is being displayed, press [▶▶1] key for at least 1 second and enter the security registration mode.
3. Using [FM] / [AM] / [I◀◀] / [▶▶1] keys, enter the code.
[FM] key : Number up / [AM] key : Number down
[▶▶1] key : Cursor Right / [I◀◀] key : Cursor Left
4. Press [▶▶1] key for at least 3 seconds to display “RE-ENTER”. Then, re-enter the code using the method in above No. “3”.
5. Press [▶▶1] key for at least 3 seconds to display “APPROVED”.
6. Release the test mode. (Refer to the section on “How to Release the Test Mode.”)

Note : The security code for this model cannot be deleted by “all clear” command.

PC BOARD (COMPONENT SIDE VIEW)

SWITCH UNIT

X16-2950-1x / X16-3122-72 (J76-0054-02)



X16-2950-1x

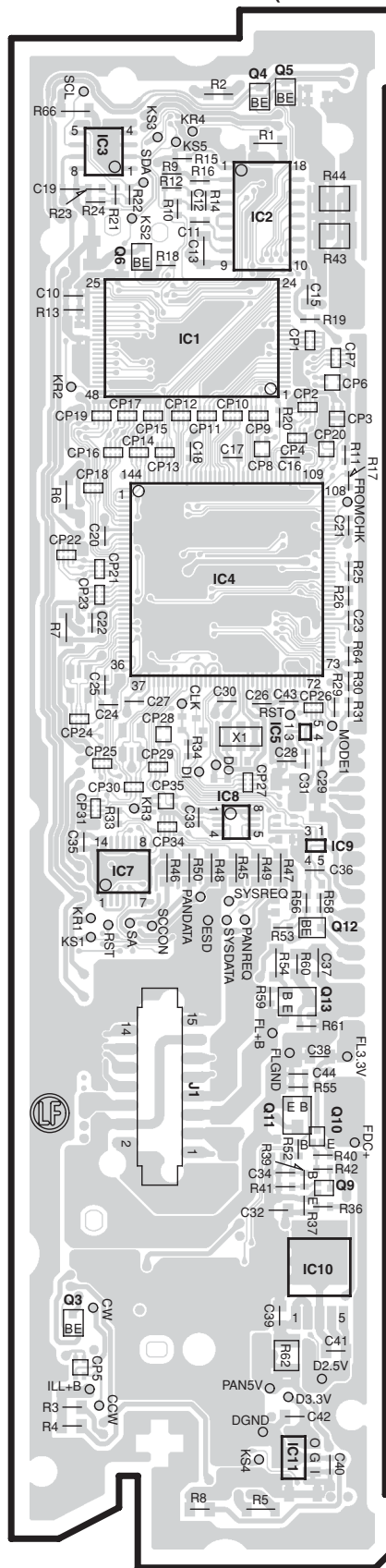
X16-3122-72

Ref. No.	Address
IC6	6A
Q1	6A
Q2	6A
Q7	6A
Q8	6A

(FOIL SIDE VIEW)

SWITCH UNIT

X16-2950-1x / X16-3122-72 (J76-0054-02)



X16-2950-1x

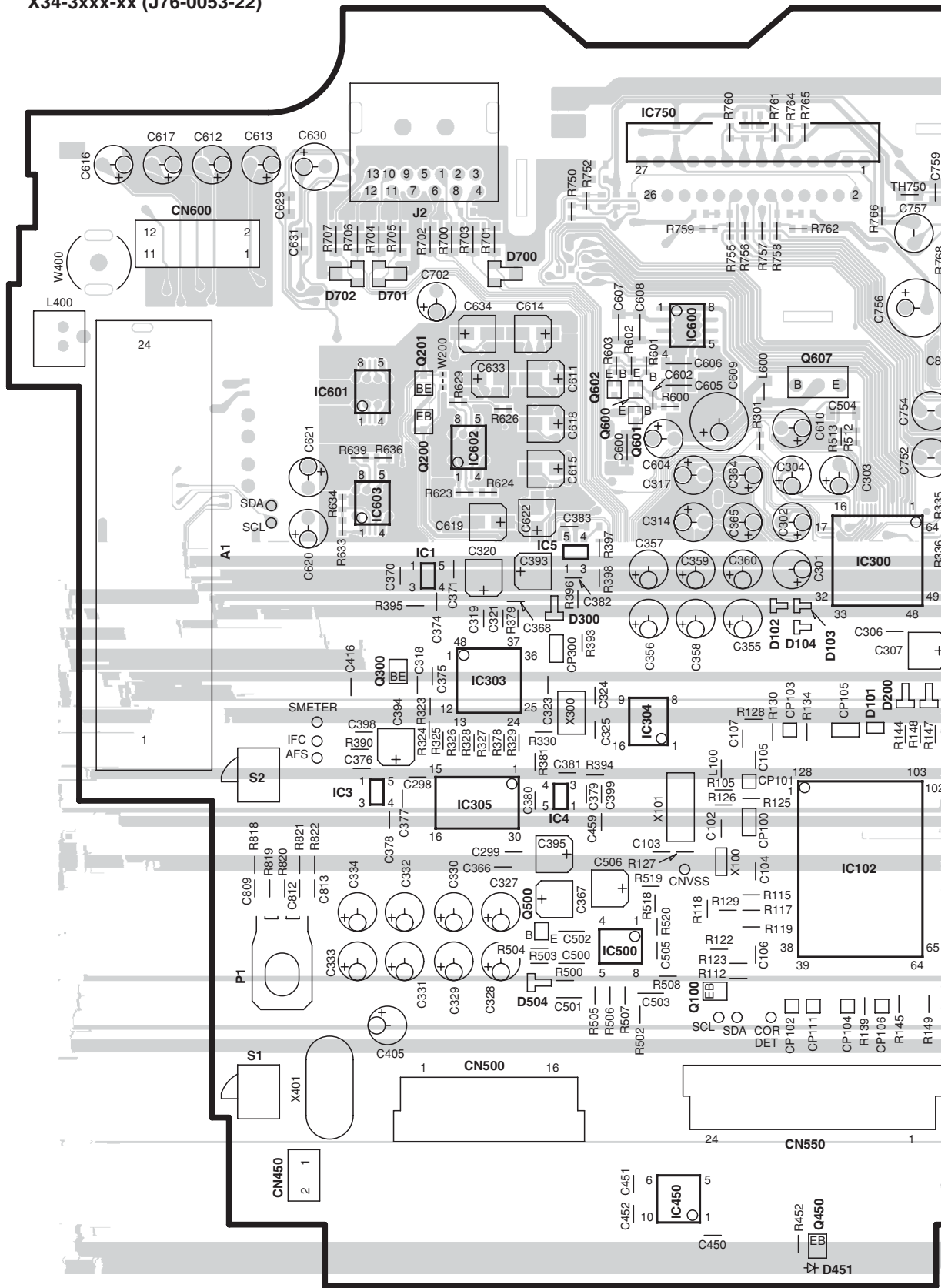
X16-3122-72

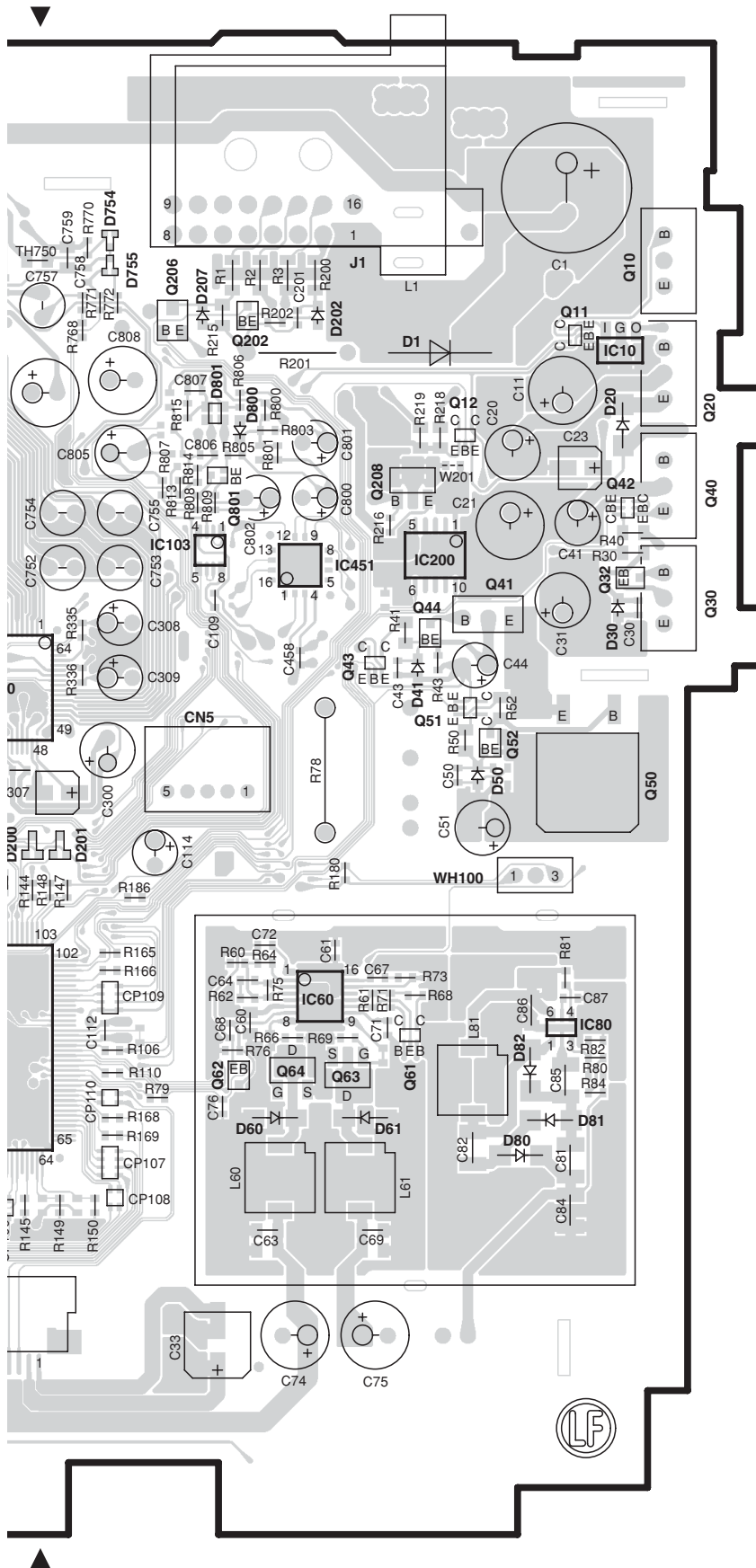
Ref. No.	Address
IC1	3D
IC2	2D
IC4	3D
IC5	4D
IC7	5C
IC8	4D
IC9	4D
IC10	6D
IC11	7D
Q3	6C
Q4	2D
Q5	2D
Q6	2C
Q9	6D
Q10	5D
Q11	5D
Q12	5D
Q13	5D

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

PC BOARD (COMPONENT SIDE VIEW)

ELECTRIC UNIT
X34-3xxx-xx (J76-0053-22)





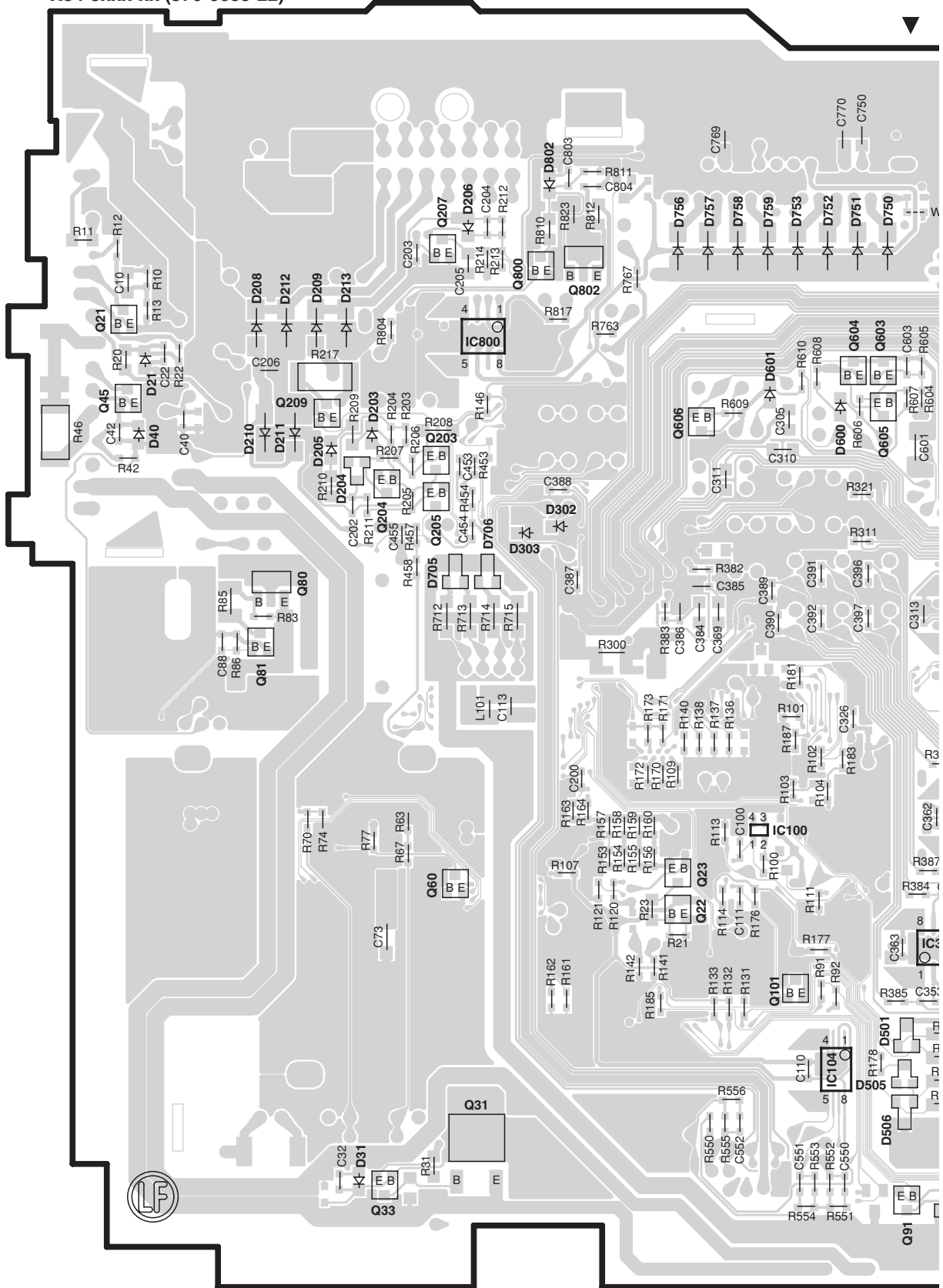
X34-3xxx-xx

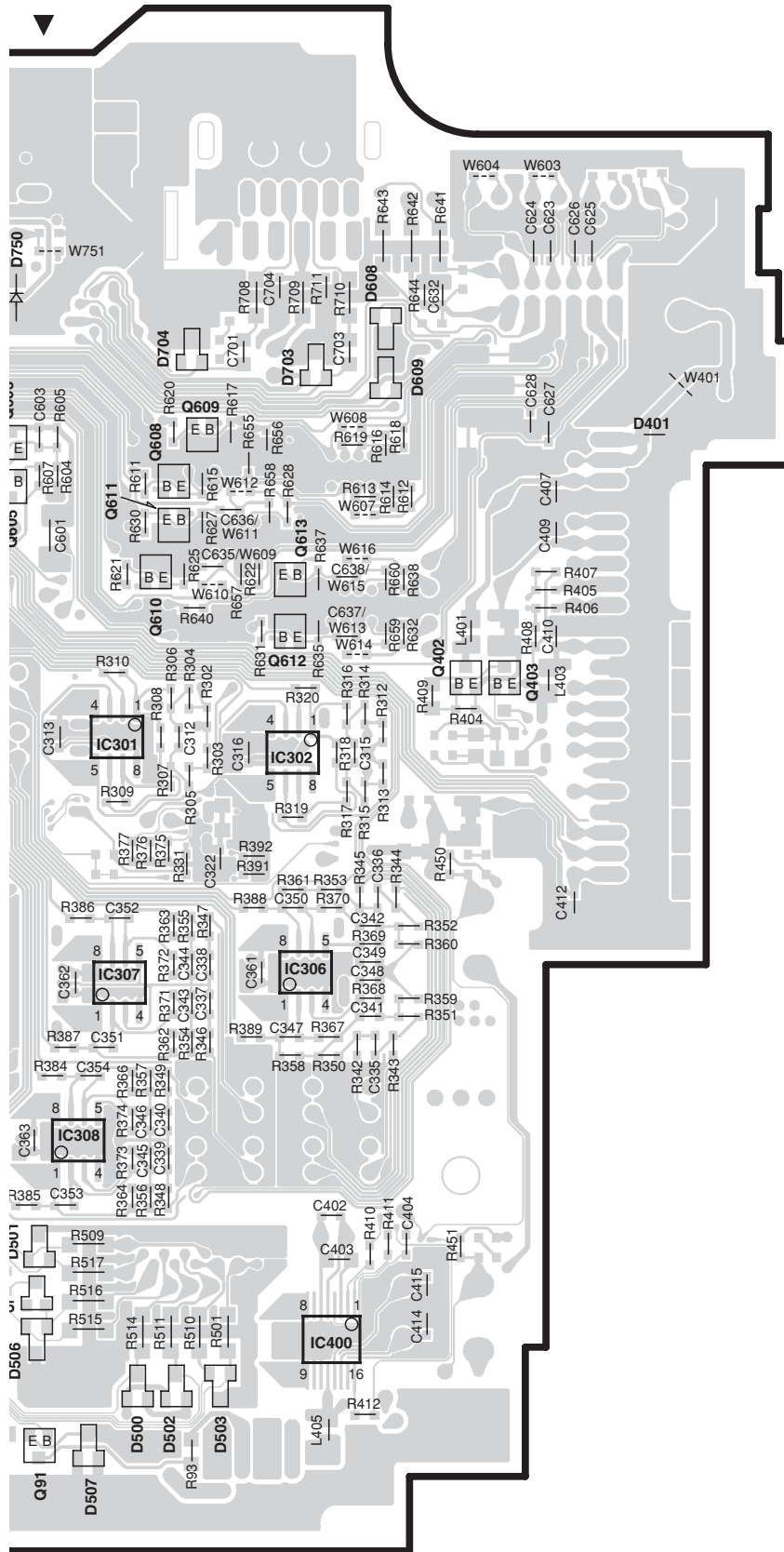
Ref. No.	Address	Ref. No.	Address
IC10	3M	Q42	3M
IC60	5L	Q43	4L
IC80	5M	Q44	4L
IC102	5J	Q50	4M
IC103	3K	Q51	4L
IC200	3L	Q52	4L
IC300	4J	Q61	5L
IC450	7I	Q62	5K
IC451	3L	Q63	5L
IC500	5I	Q64	5L
IC600	3I	Q100	6I
IC601	3H	Q200	3H
IC602	3H	Q201	3H
IC603	4H	Q202	3K
IC750	2I	Q206	2K
Q10	2M	Q208	3L
Q11	2M	Q450	7J
Q12	3L	Q500	5I
Q20	3M	Q600	3I
Q30	3M	Q601	3I
Q32	3M	Q602	3I
Q40	3M	Q607	3J
Q41	3L	Q801	3K

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

PC BOARD (FOIL SIDE VIEW)

ELECTRIC UNIT
X34-3xxx-xx (J76-0053-22)





X34-3xxx-xx

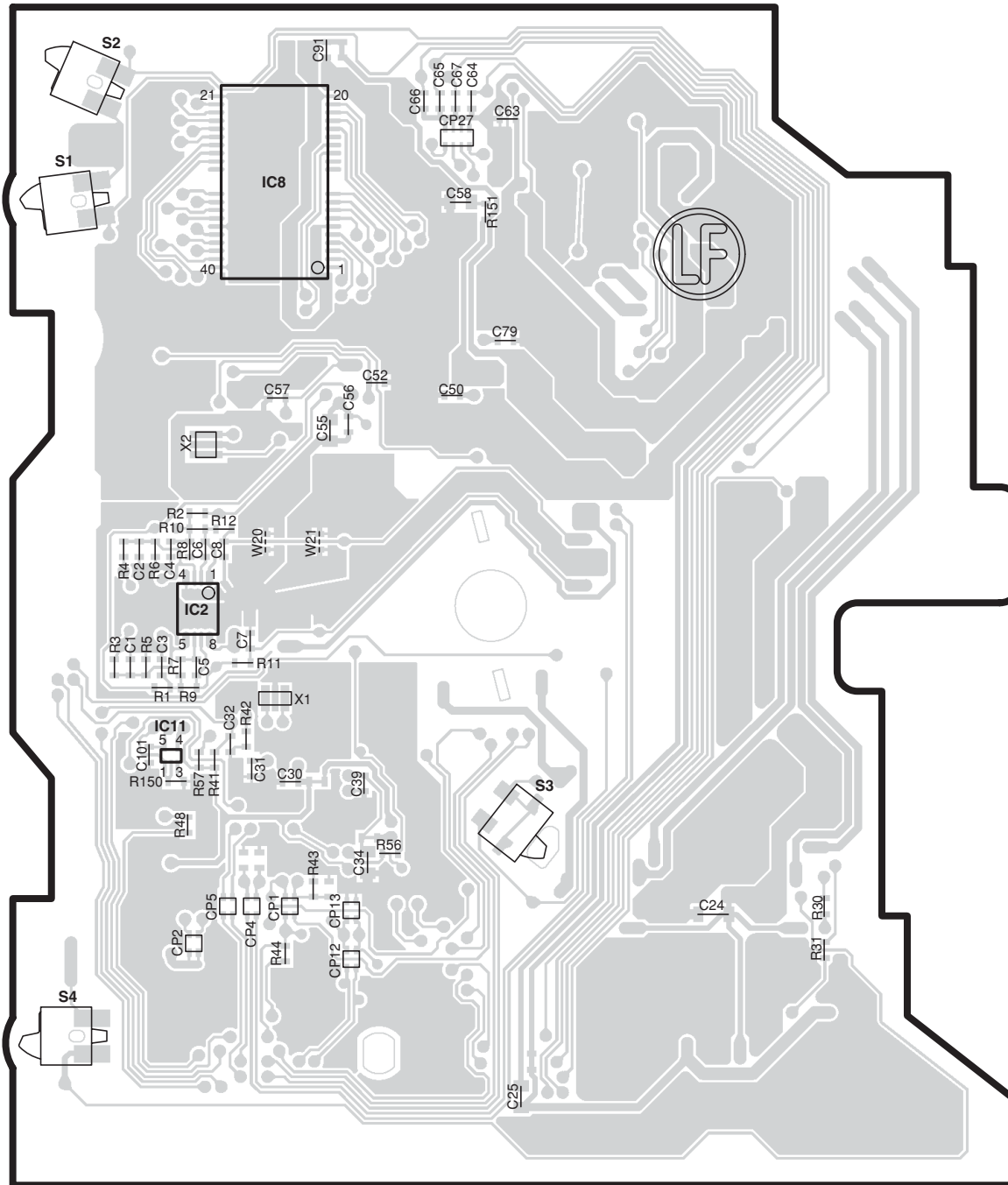
Ref. No.	Address	Ref. No.	Address
IC100	5T	Q205	4R
IC104	6T	Q207	2R
IC400	6V	Q209	3R
Q21	3Q	Q402	4V
Q22	5S	Q403	4V
Q23	5S	Q603	3T
Q31	6R	Q604	3T
Q33	7R	Q605	3T
Q45	3Q	Q606	3S
Q60	5R	Q608	3U
Q80	4R	Q609	3U
Q81	4Q	Q610	4U
Q91	7T	Q611	3U
Q101	6T	Q612	4V
Q203	3R	Q613	3V
Q204	4R	Q800	3S
		Q802	3S

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

KDC-MP628/MP7028/MP728
MP8029/W7031/W7031Y

PC BOARD (COMPONENT SIDE VIEW)

CD PLAYER UNIT X32-5740-0x (J76-0065-12)



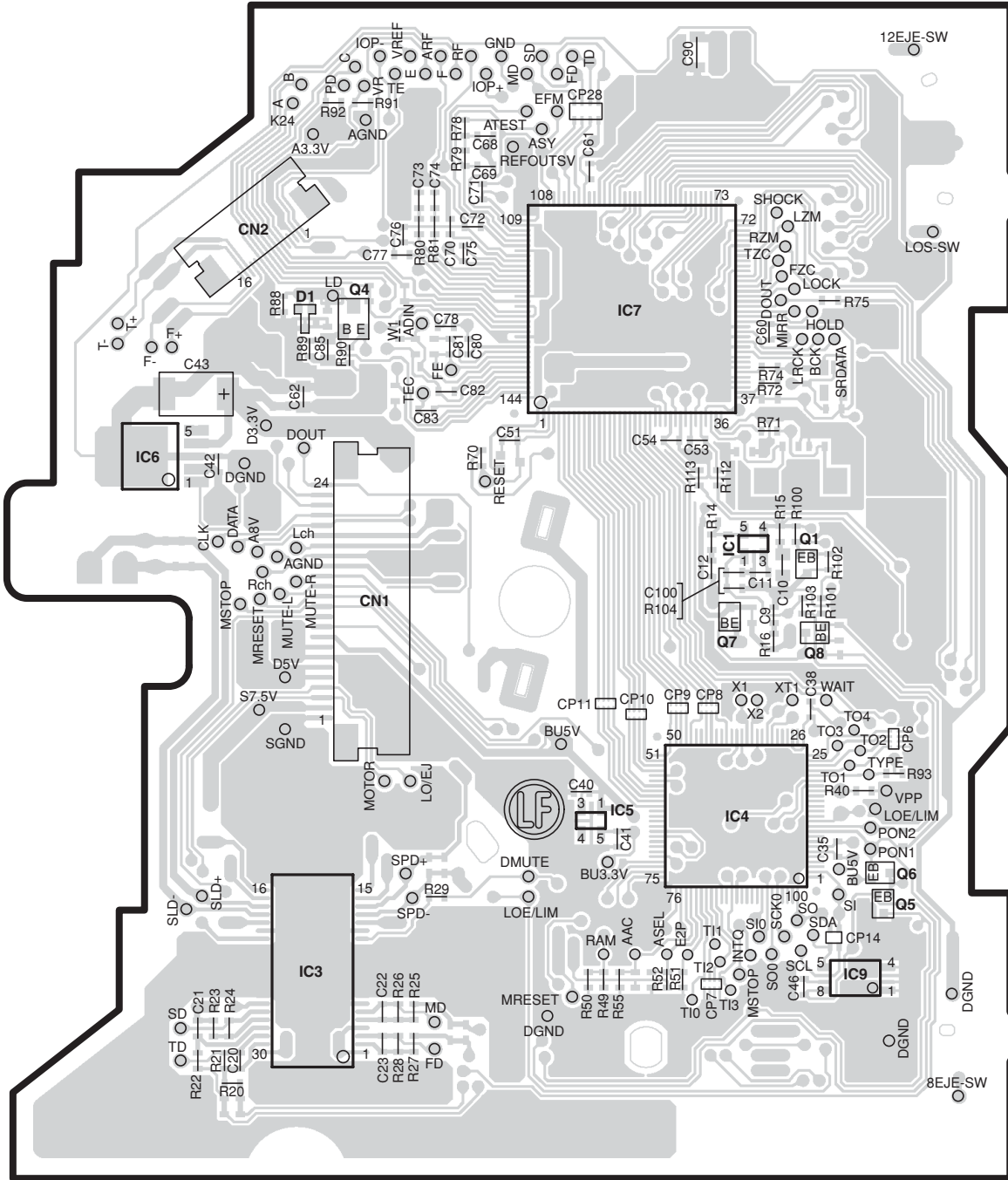
X32-5740-0x

Ref. No.	Address
IC2	4AA
IC8	2AA
IC11	4AA

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

PC BOARD (FOIL SIDE VIEW)

CD PLAYER UNIT X32-5740-0x (J76-0065-12)

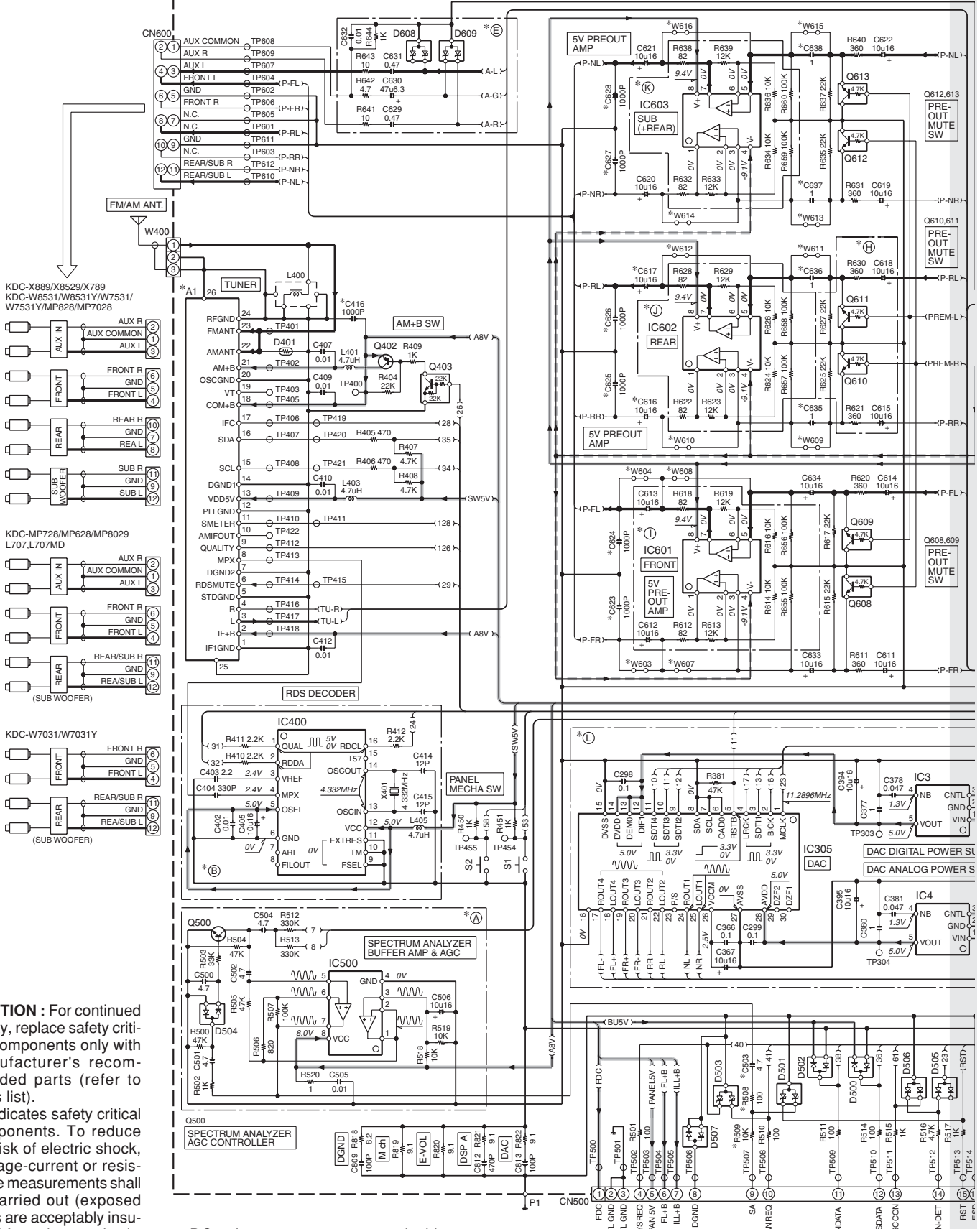


X32-5740-0x

Ref. No.	Address	Ref. No.	Address
IC1	3AH	Q1	3AH
IC3	5AF	Q4	2AF
IC4	4AH	Q5	5AH
IC5	4AG	Q6	5AH
IC6	3AE	Q7	4AH
IC7	3AG	Q8	4AH

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

ELECTRIC UNIT (X34-3xxx-xx)

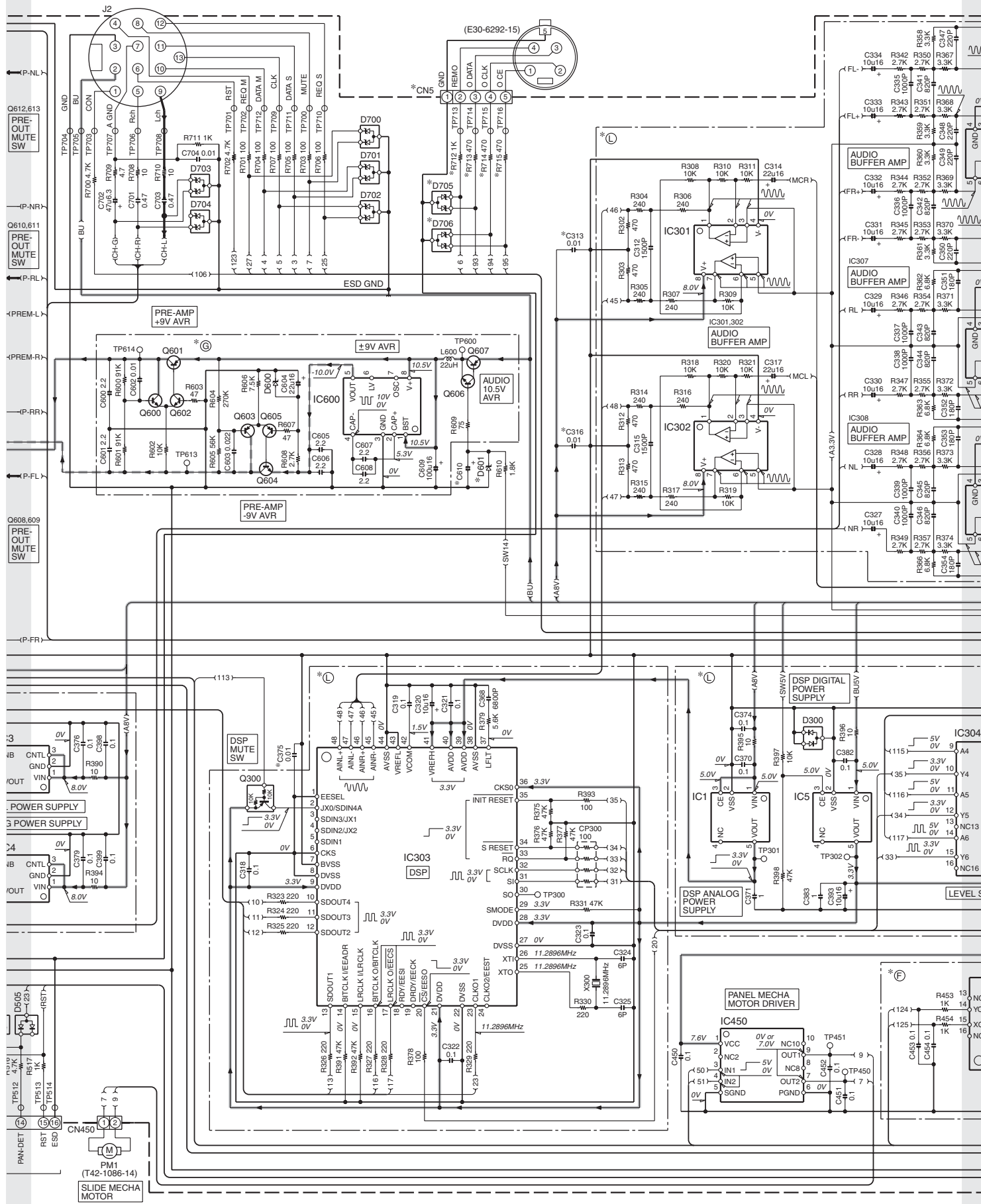


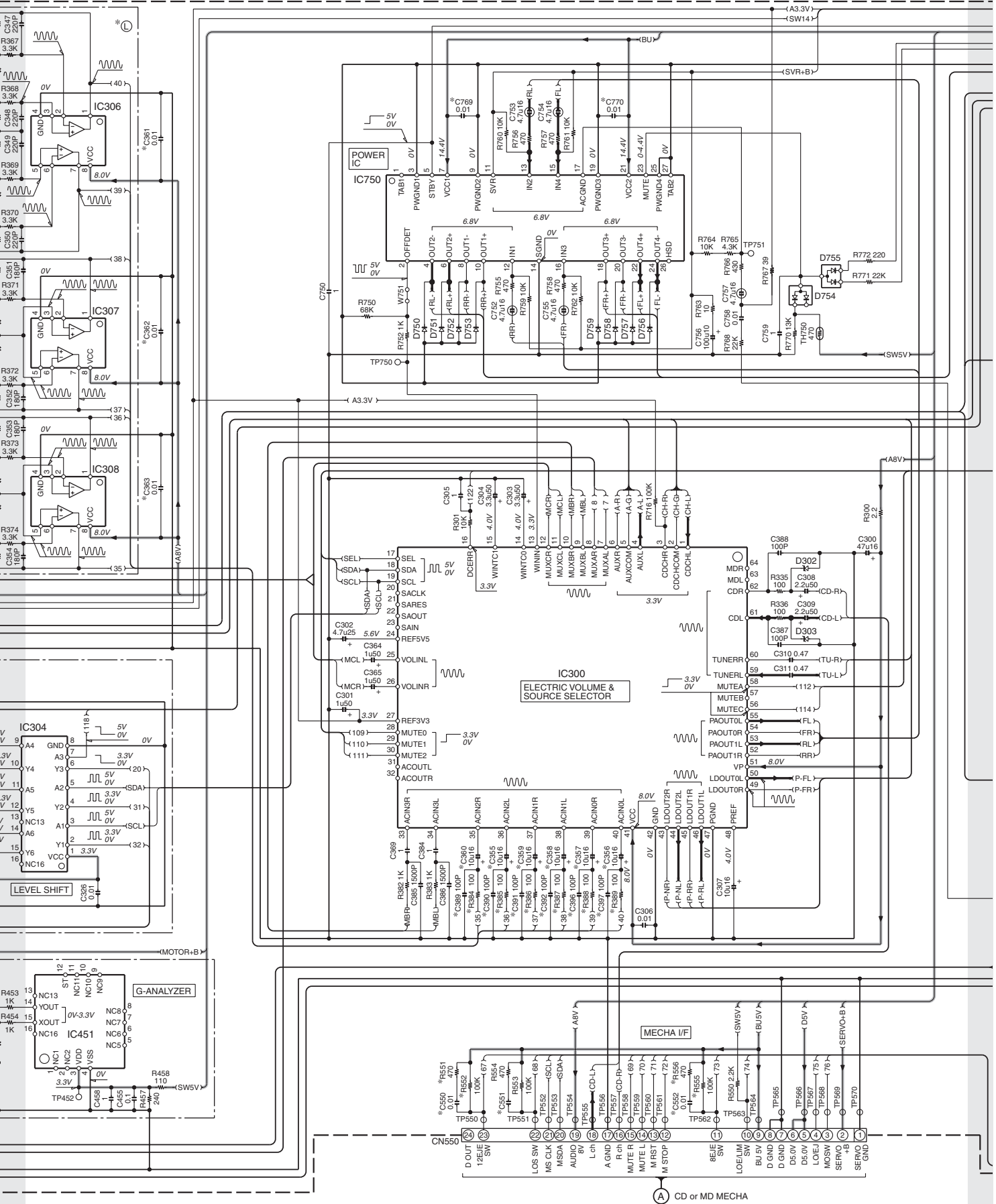
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

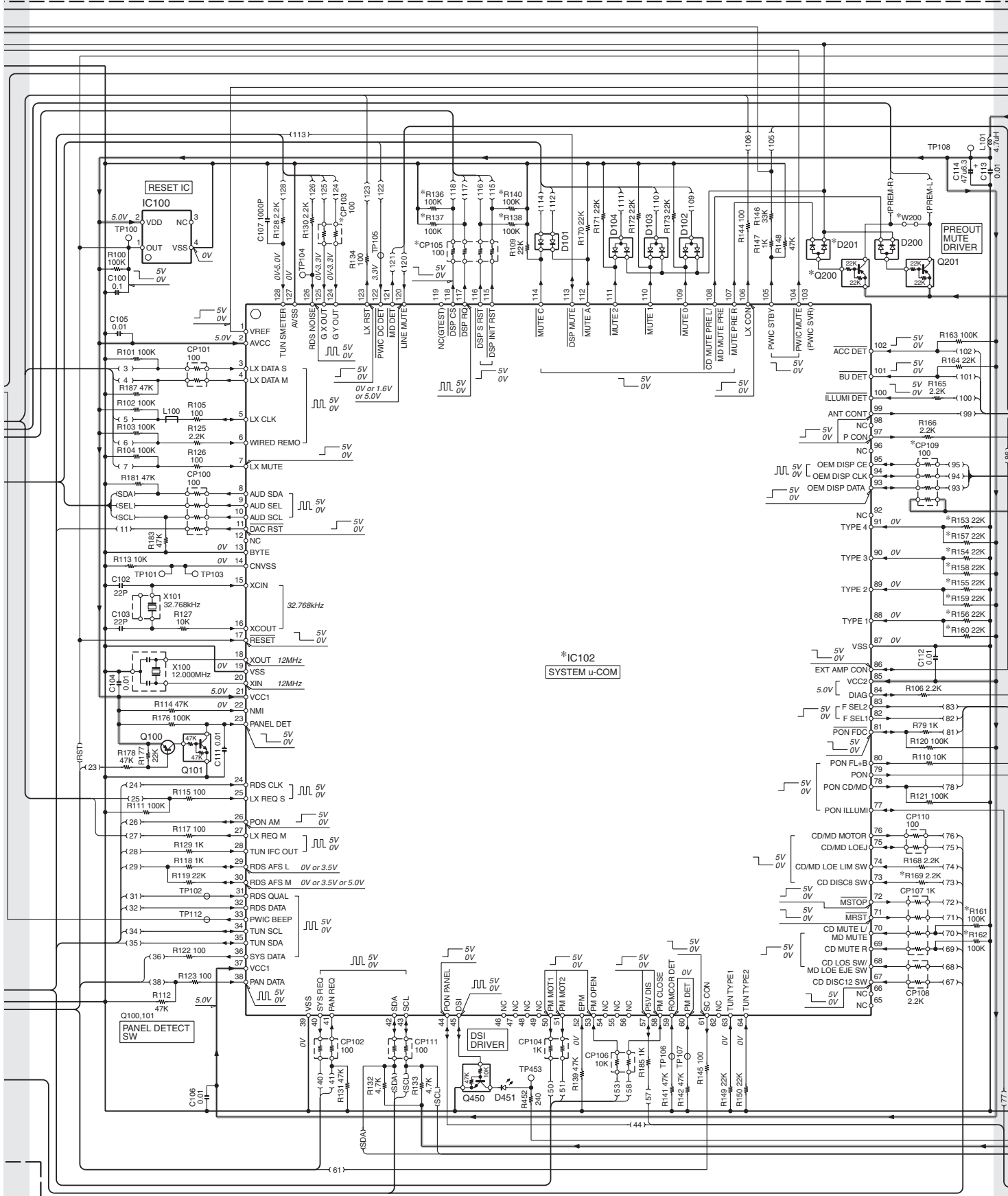
⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

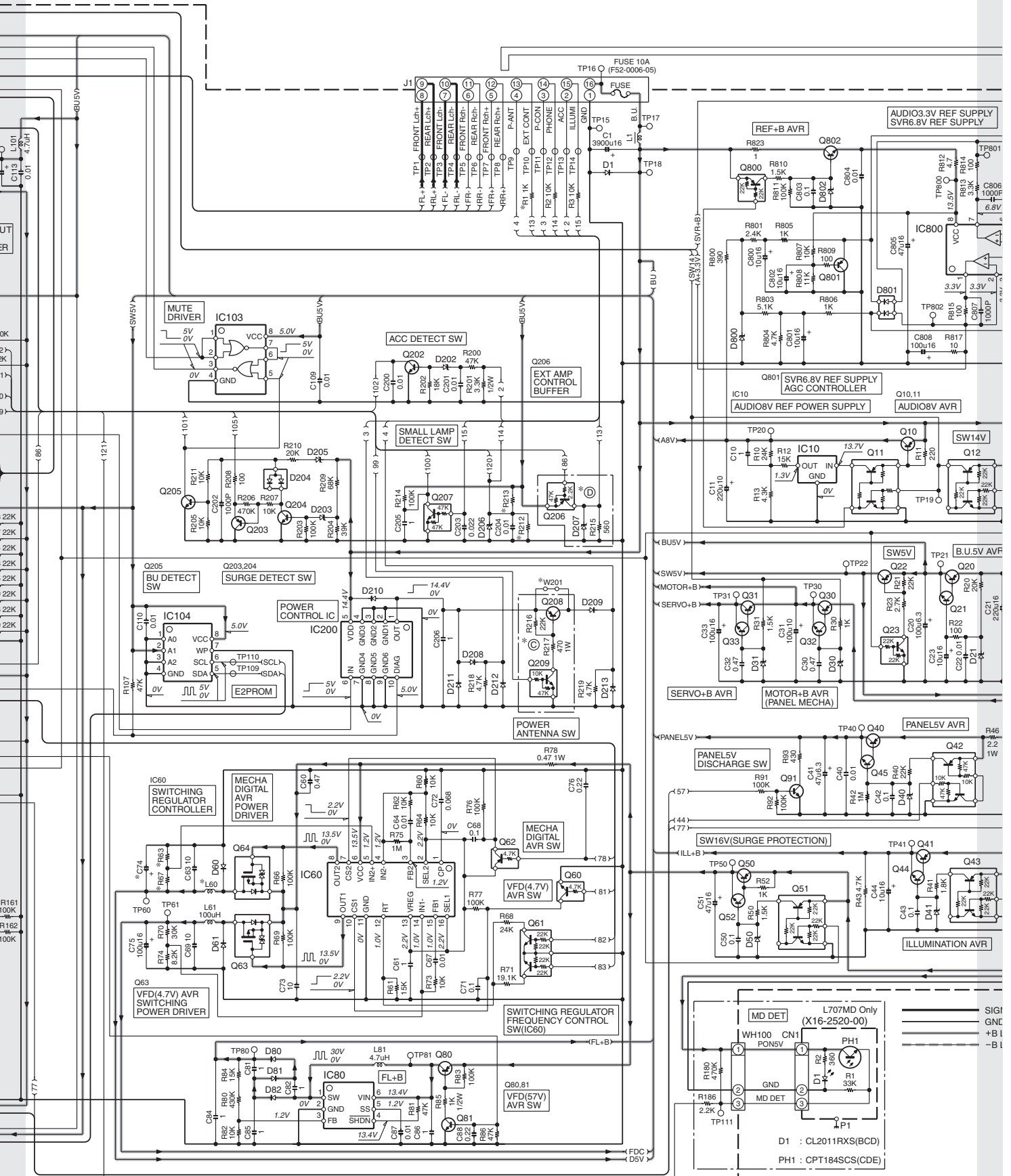
• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

(B) X16-
J1

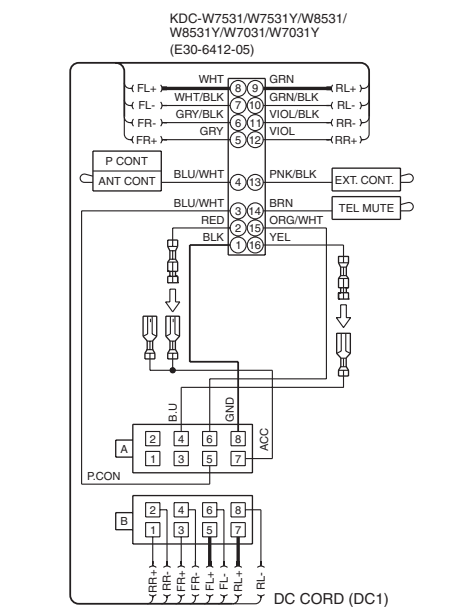
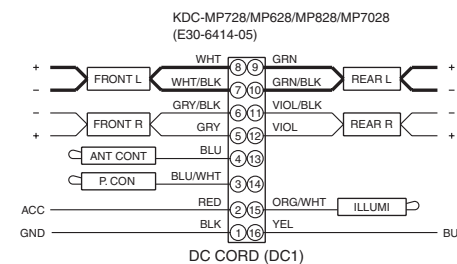
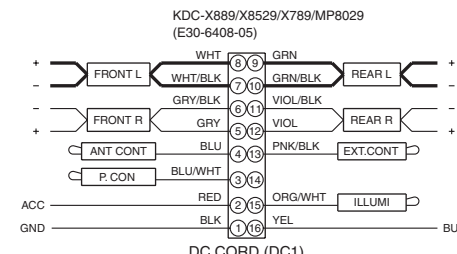
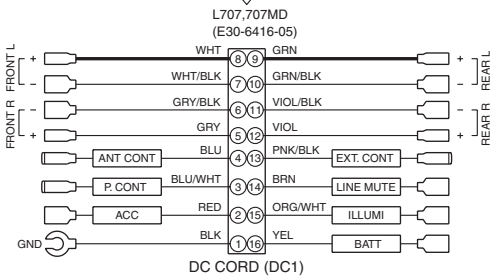
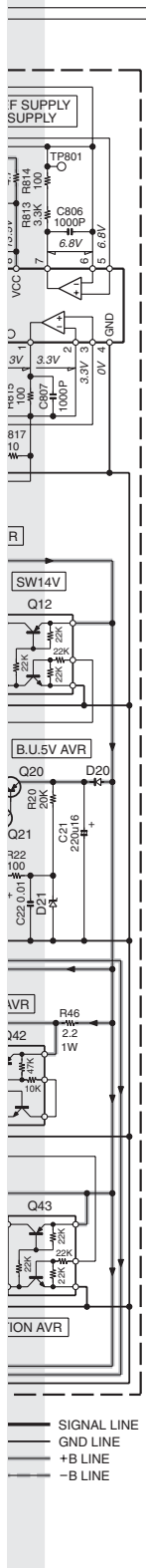








KDC-MP628/MP7028/MP728/MP8029/W7031/W7031Y



- IC1,5 : XC6204B332MR
- IC3,4 : NJM2864F05-ZB
- IC10 : M5237ML-CF0J
- IC60 : FA3687V
- IC80 : LT3467A
- IC100 : S-80836CNNB-J
- IC102 : *
- IC103 : TC7W02FU-F
- IC104 : BR24L04FV-W
- IC200 : TPD1018F-F
- IC300 : E-TDA7415
- IC301,302,306-308,500,800 : RC4580IDR
- IC303 : AK7730A
- IC304 : TC74HC4050AFT
- IC305 : AK5359VF
- IC400 : E-TDA7479AD
- IC450 : LB1930M-F
- IC451 : MMA6261QR2
- IC600 : ICL7660SIBAZ
- IC601-603 : NJM4565V-ZB
- IC750 : E-TDA7570A

- Q10,20,30,40 : 2SB1565
- Q11,12,43,51 : UMC2N
- Q21,45,91 : 2SD2351(W)
- Q22 : 2SA1577
- Q23,403 : DTC124EUA
- Q31 : 2SB1184
- Q32,33,44,52,81,202,204,205,604,606 : 2SC4081
- Q41,607 : 2SB1443
- Q42 : UMD12N
- Q50 : 2SB1449(R)-E
- Q60,608-613 : DTC143TUA
- Q61 : UMG2N
- Q62 : DTA143TUA
- Q63,64 : 2SJ484-E
- Q80 : 2SB1188(R)
- Q100,203,603,605 : 2SA1576A
- Q101,207 : DTC144EUA
- Q200,201,800 : DTA124EUA
- Q206 : DTA123JK
- Q208 : 2SB1188(Q,R)
- Q209,450 : DTC114YUA
- Q300 : DTA114YUA
- Q402 : 2SB1689
- Q500,600,602 : 2SC4617
- Q601,801 : 2SA1774
- Q802 : 2SC2873-F

- D1 : S2V60+A
- D20 : RB160L-40
- D21,40,207,302,303,600 : UDZS5.6B
- D30 : HZU9.1(B)-E
- D31 : UDZS8.2B
- D4 : HZU11(B)-E
- D50 : HZU16(B)-E
- D60,61 : SFPB-54V(N) R in m
- D80-82 : RB060L-40
- D101,801 : DA227
- D102-104,754,755 : DAP222
- D200,201,204,505 : DAP202U
- D202,203,205,800 : UDZS6.8B
- D206 : UDZS4.7B
- D208-213,750-753 : D20A204
- D300,504 : DA204U
- D451 : BSA1-1566-05
- D500,502,507 : DA204K
- D501,503,506,700-702,705,706 : 1SR154-400
- D601 : STZ6.2N
- D608,609,703,704 : UDZS11B
- D802 : STZ6.8N
- : UDZS16B

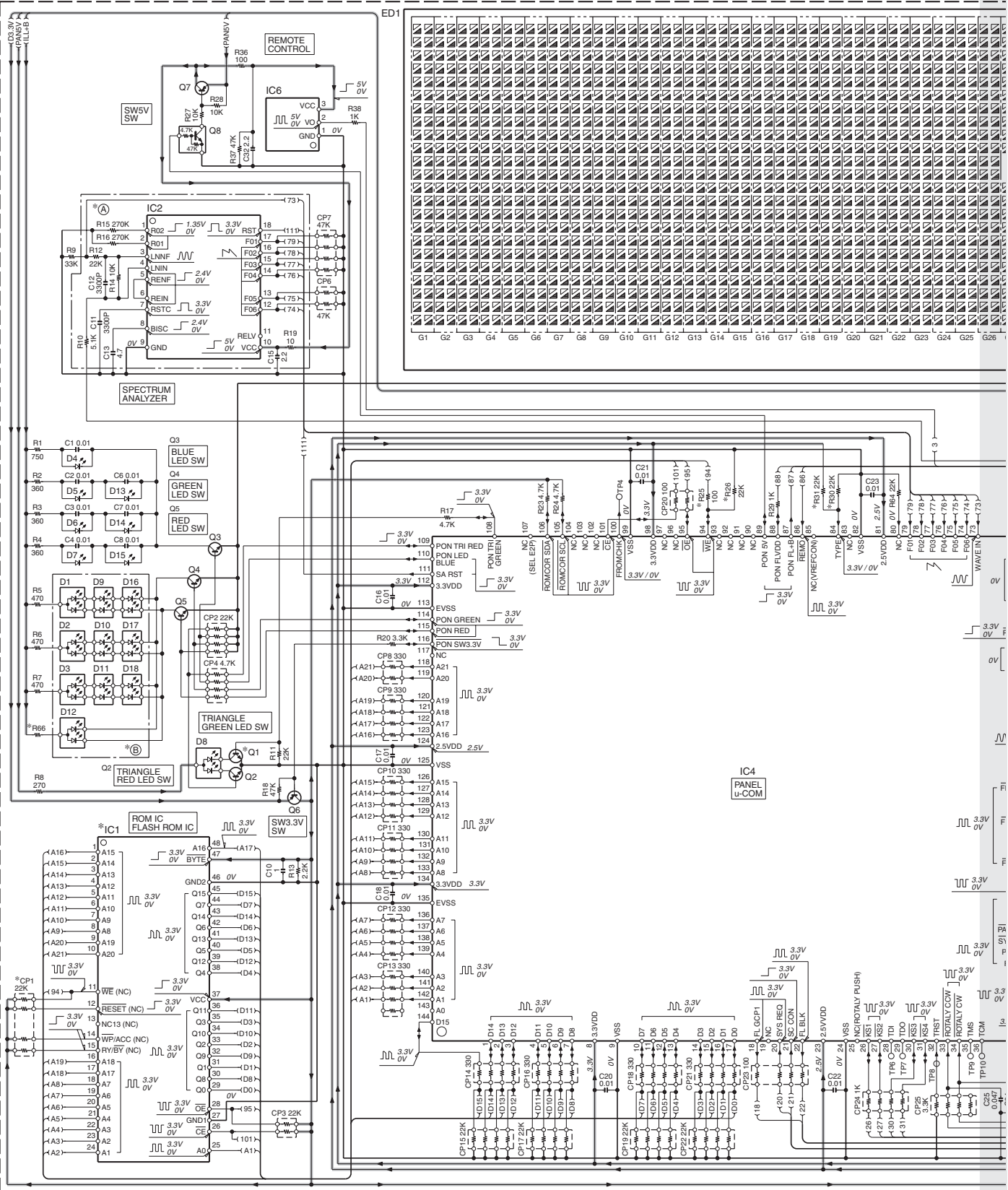
DESTI- NATION	UNIT No.	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(J)	(K)	(L)	(M)	(N)	(P)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)
KDC-X889	K-0-10	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-MP828	K-0-10	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-MP728	K-0-12	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-MP728	K-0-13	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-X789	K-0-14	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-MP828	K-0-15	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-X8529	M-0-21	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-MP8029	M-0-22	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
L707	J-0-01	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
L707MD	J-0-02	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

DESTI- NATION	UNIT No.	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(J)	(K)	(L)	(M)	(N)	(P)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)
KDC-X889	K-0-10	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-MP828	K-0-11	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-MP728	K-0-12	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-MP728	K-0-13	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-X789	K-0-14	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-MP828	K-0-15	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-X8529	M-0-21	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-MP8029	M-0-22	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
L707	J-0-01	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
L707MD	J-0-02	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

DESTI- NATION	UNIT No.	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(J)	(K)	(L)	(M)	(N)	(P)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)
KDC-W7531	E-2-70	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-W7531Y	E-2-71	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-W7031Y	E-2-72	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

DESTI- NATION	UNIT No.	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(J)	(K)	(L)	(M)	(N)	(P)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)
KDC-W7531	E-2-71	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-W7031	E-2-72	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

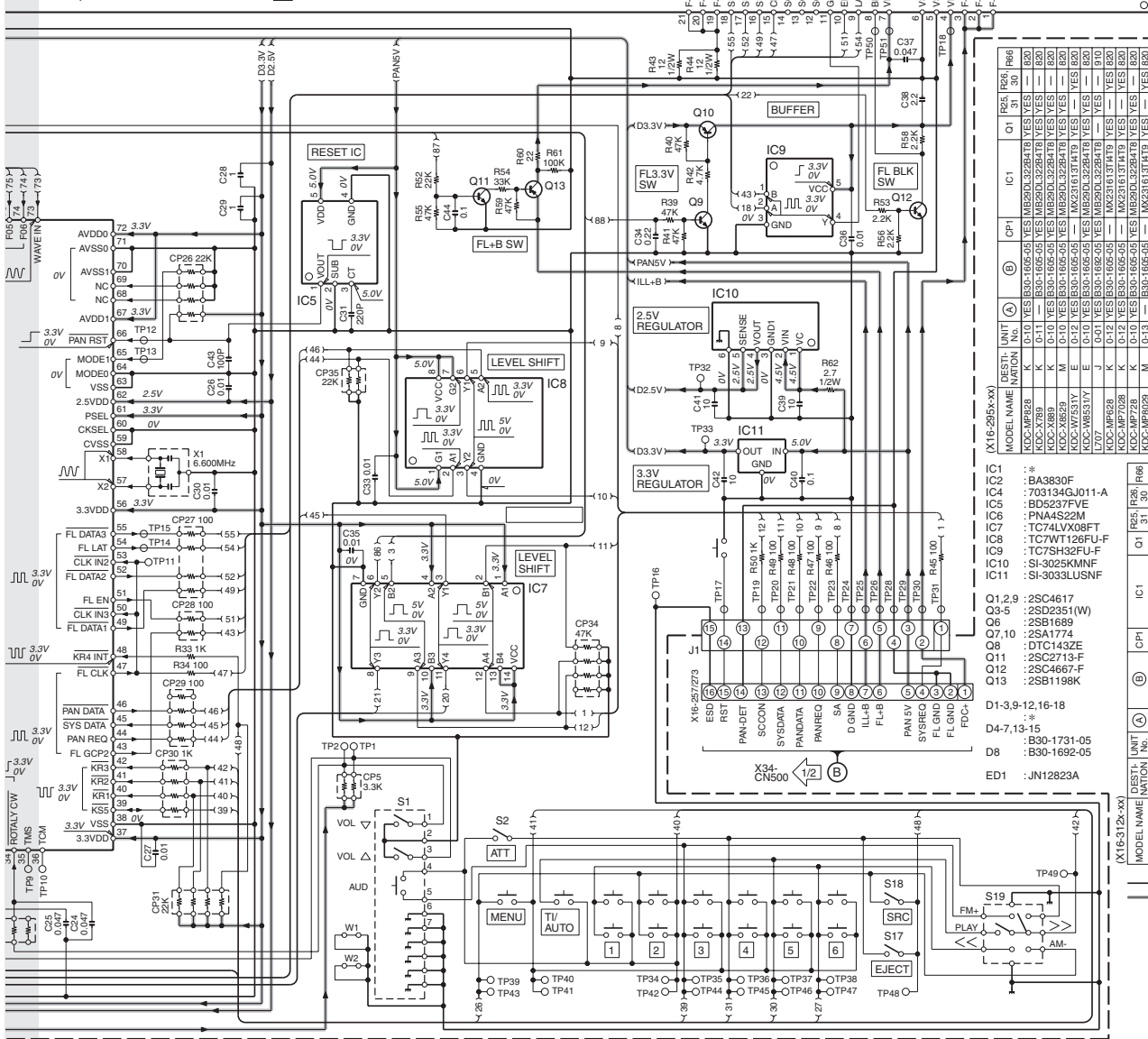
SWITCH UNIT (X16-xxxx-xx)



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.

128X23 Pixels/2 Colors

◻ : LIGHT GREENISH BLUE ◼ : YELLOWISH ORANGE

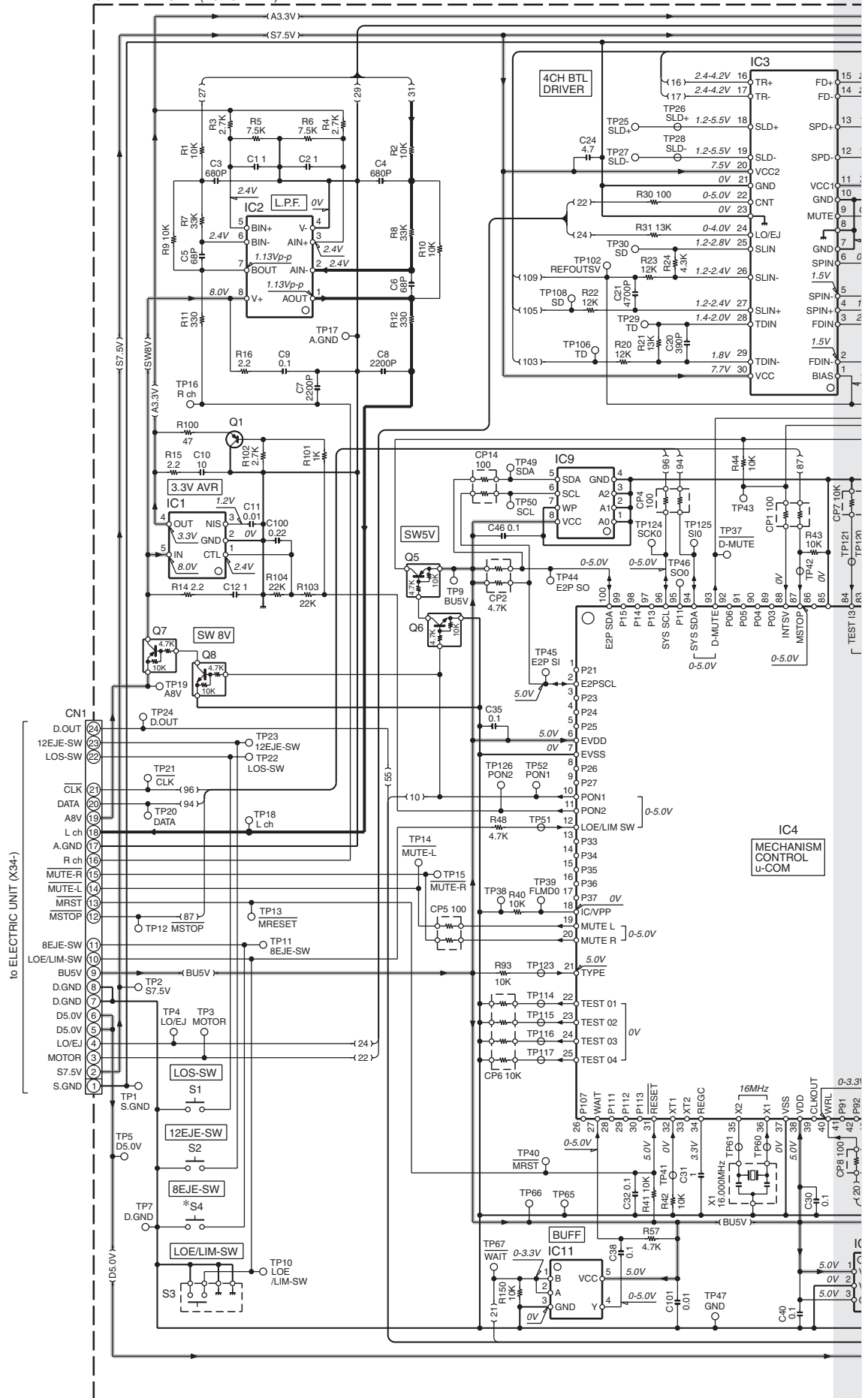


MODEL NAME	DESTINATION	UNIT No.	IC1	IC2	IC3	IC4	IC5	IC6	IC7	IC8	IC9	IC10	IC11	Q1,2,9	Q3-5	Q6	Q7,10	Q11	Q12	Q13	D1-3,9,12,16-18	D4-7,13-15	D8	ED1	
KDC-MP628	B30-1692-05	YES	BA3830F	703134GJ011-A	B05237FVFE	PNAAS22M	TC74LVX08FT	TC7WT12FU-F	TC7SH32FU-F	SI-3025KMN	SI-3033LUN			2SC4617	2SD2351(W)	2SB1689	2SA1774	DT0143ZE	2SC2713-F	2SC4667-F	2SB1198K				
KDC-MP728	B30-1692-05	YES	BA3830F	703134GJ011-A	B05237FVFE	PNAAS22M	TC74LVX08FT	TC7WT12FU-F	TC7SH32FU-F	SI-3025KMN	SI-3033LUN			2SC4617	2SD2351(W)	2SB1689	2SA1774	DT0143ZE	2SC2713-F	2SC4667-F	2SB1198K				
KDC-MP8029	B30-1692-05	YES	BA3830F	703134GJ011-A	B05237FVFE	PNAAS22M	TC74LVX08FT	TC7WT12FU-F	TC7SH32FU-F	SI-3025KMN	SI-3033LUN			2SC4617	2SD2351(W)	2SB1689	2SA1774	DT0143ZE	2SC2713-F	2SC4667-F	2SB1198K				
KDC-W7031	B30-1692-05	YES	BA3830F	703134GJ011-A	B05237FVFE	PNAAS22M	TC74LVX08FT	TC7WT12FU-F	TC7SH32FU-F	SI-3025KMN	SI-3033LUN			2SC4617	2SD2351(W)	2SB1689	2SA1774	DT0143ZE	2SC2713-F	2SC4667-F	2SB1198K				

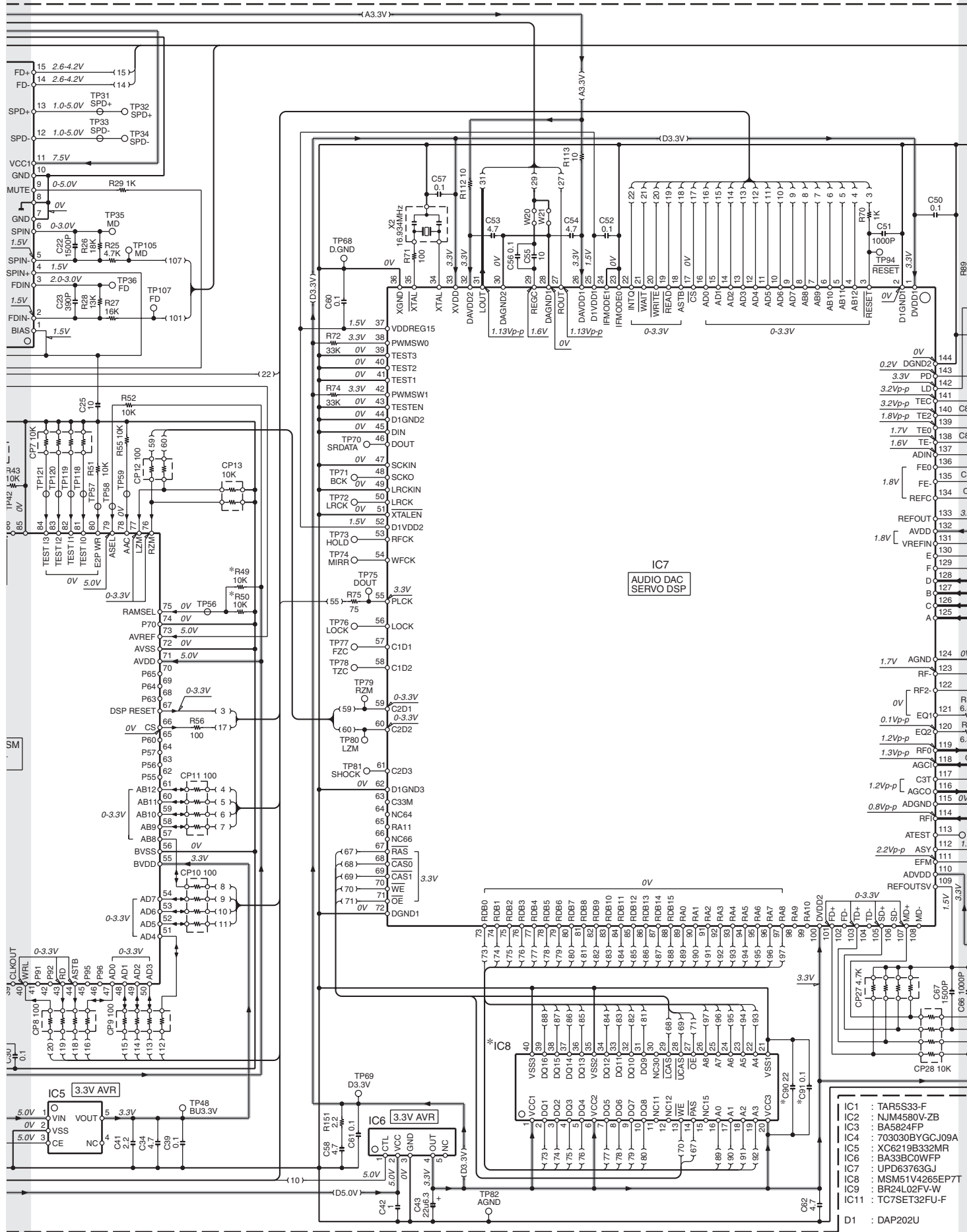
• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

KDC-MP628/MP7028/MP728
MP8029/W7031/W7031Y

CD PLAYER UNIT (X32-574x-xx)

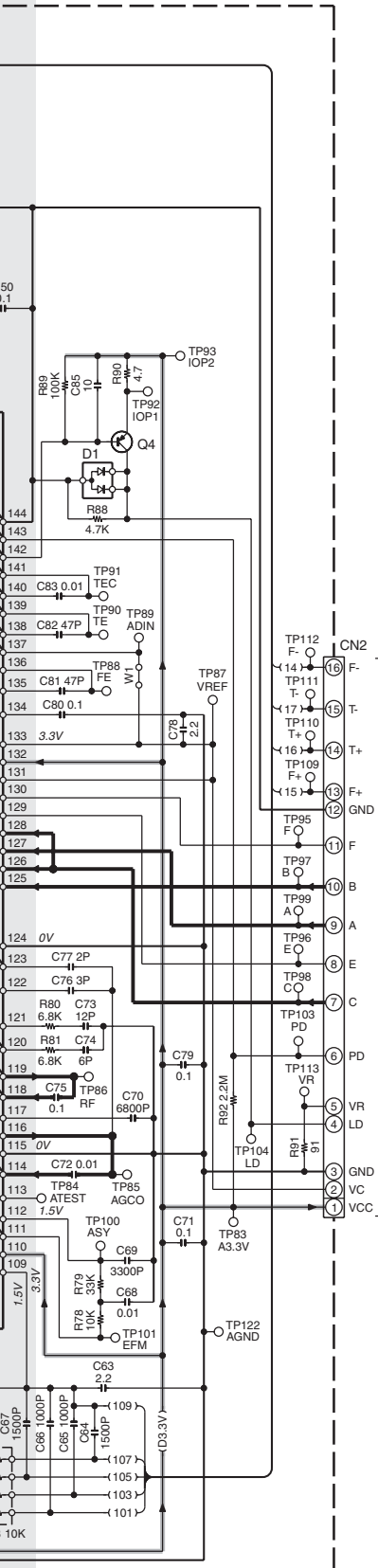


KDC-MP628/MP7028/MP728 MP8029/W7031/W7031Y

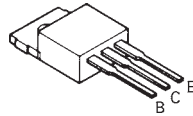


- IC1 : TAR5S33-F
- IC2 : NJM4580V-ZB
- IC3 : BA5824FP
- IC4 : 703030BYGCJ09A
- IC5 : XC6219B332MR
- IC6 : BA33BCOWFP
- IC7 : UPD63763GJ
- IC8 : MSM51V4265EP7T
- IC9 : BR24L02FV-W
- IC11 : TC7SET32FU-F

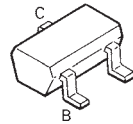
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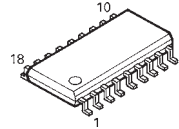
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2SA1774
2SC4081



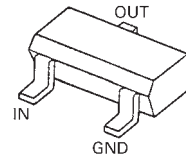
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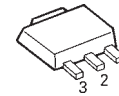
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2SC4617



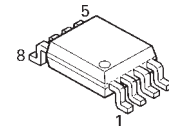
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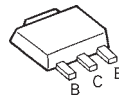
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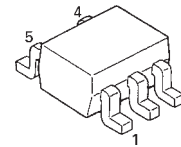
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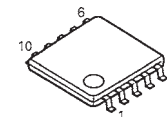
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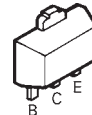
UMC2N



LB1930M-E



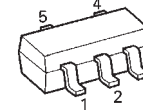
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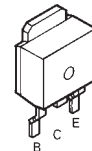
DAP202U
DA204K
DA204U



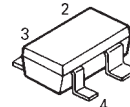
TC7SH32FU-F



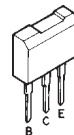
2SB1184



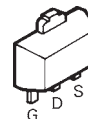
DA227



2SB1443



2SJ484-E



- Q1 : 2SA1576A
- Q4 : 2SB0970
- Q5,7 : DTA143XUA
- Q6,8 : DTC143XUA

— SIGNAL LINE
 — GND LINE
 — +B LINE

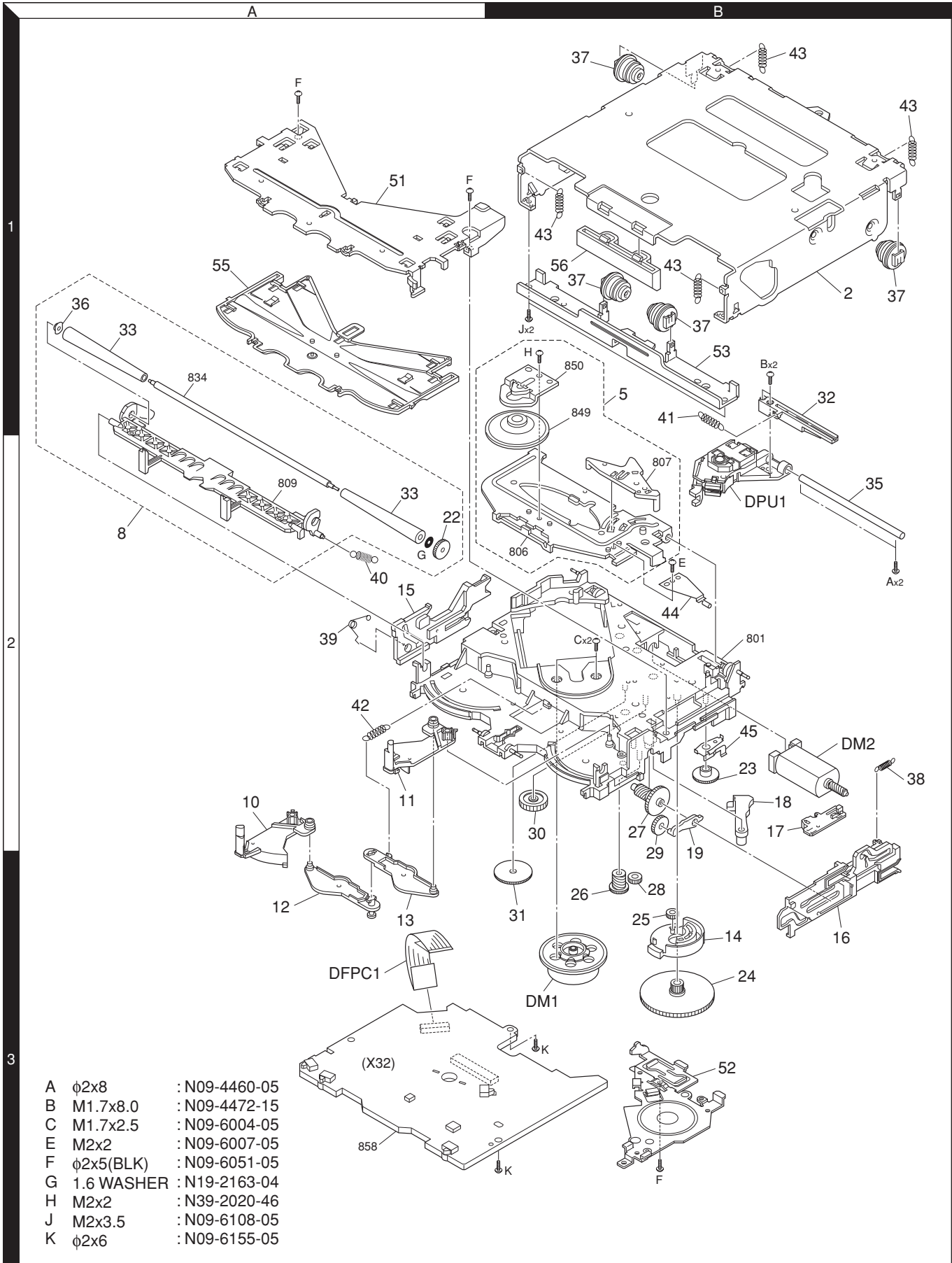
X32-508,520	X32-574	C90,91	IC8	R49	R50	S4
0-00-0-01	0-00	—	—	—	YES	—
0-02-0-03	0-01	—	—	—	YES	YES
0-04-0-05	0-02	YES	YES	YES	—	—

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.

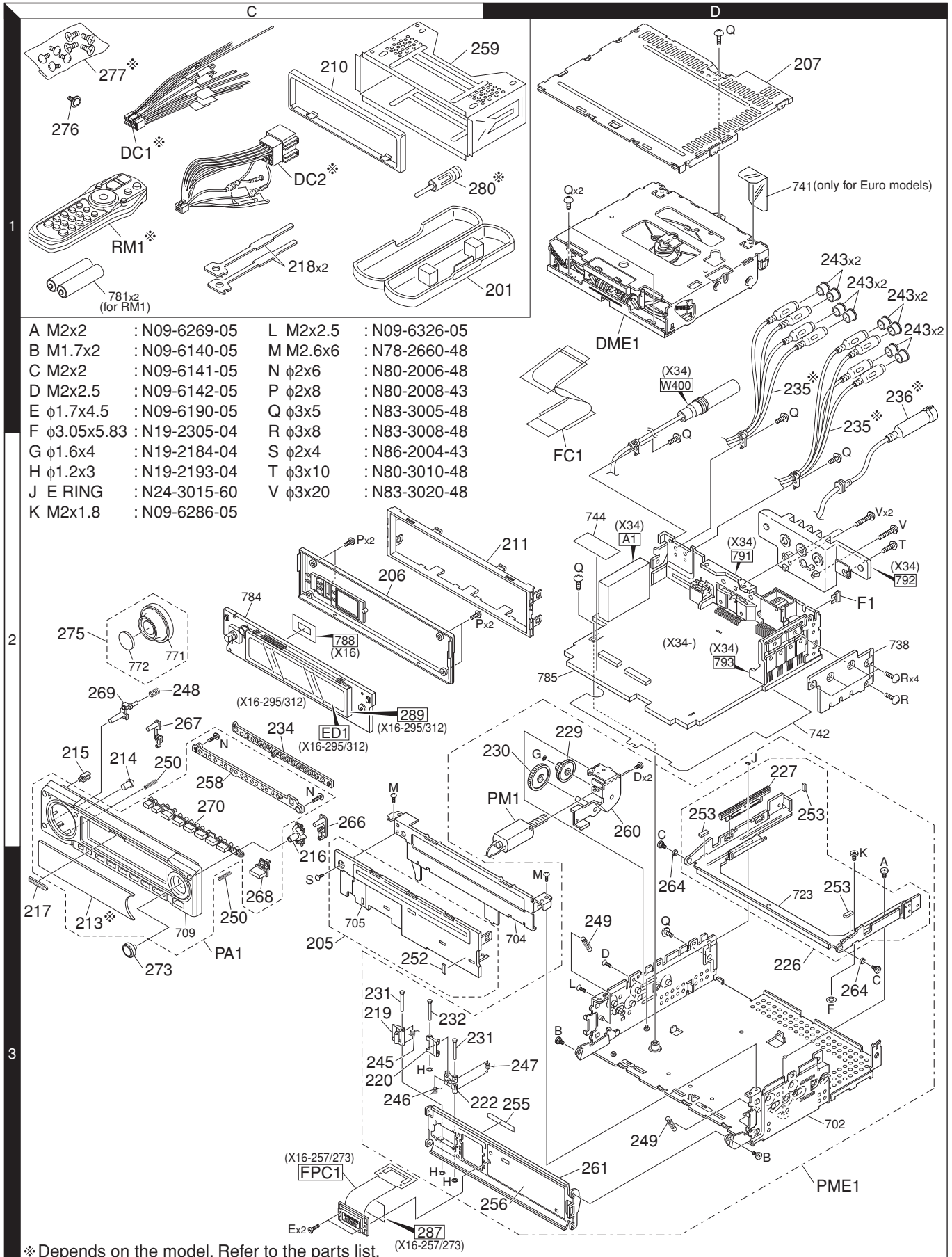
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

EXPLODED VIEW (CD MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



* Depends on the model. Refer to the parts list. (X16-257/273)

PARTS LIST

* New parts

Parts without **Parts No.** are not supplied.

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

Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
KDC-MP628/MP7028/MP728/MP8029/W7031/W7031Y											
201	1C		A02-2732-03	PLASTIC CABINET ASSY		235	1D	*	E30-6436-05	CORD WITH PINPLUG (8-PLUG)	K4
205	3C		A22-3023-12	SUB PANEL ASSY		235	1D	*	E30-6437-05	CORD WITH PINPLUG (6-PLUG)	K2K3M1
206	2C	*	A46-1817-01	REAR COVER		235	1D	*	E30-6442-05	CORD WITH PINPLUG (4-PLUG)	E1E2
207	1D		A52-0845-12	TOP PLATE		236	1D		E30-6292-15	CORD WITH DIN CONNECTOR	E1E2
PA1	3C	*	A64-3506-12	PANEL ASSY	K2	Δ DC1	1C	*	E30-6408-05	DC CORD	M1
PA1	3C	*	A64-3507-12	PANEL ASSY	K3	Δ DC1	1C		E30-6414-05	DC CORD	K2K3K4
PA1	3C	*	A64-3508-12	PANEL ASSY	E1E2	Δ DC2	1C	*	E30-6412-05	DC CORD	E1E2
PA1	3C	*	A64-3513-12	PANEL ASSY	M1	FC1	2D		E39-0736-05	FLAT CABLE	
PA1	3C	*	A64-3665-02	PANEL ASSY	K4	243	1D	*	F29-0626-04	INSULATING COVER	
PME1	3D	*	A10-5205-22	CHASSIS ASSY	K2K3	Δ F1	2D		F52-0006-05	FUSE (MINI BLADE TYPE) (10A)	
PME1	3D	*	A10-5205-22	CHASSIS ASSY	K4M1E1	245	3C		G01-3210-04	TORSION COIL SPRING	
PME1	3D	*	A10-5224-22	CHASSIS ASSY	E2	246	3C		G01-3211-04	TORSION COIL SPRING	
RM1	1C	*	A70-2067-05	REMOTE CONTROLLER ASSY (RC-527)	K2K3	247	3D		G01-3212-04	TORSION COIL SPRING	
RM1	1C	*	A70-2067-05	REMOTE CONTROLLER ASSY (RC-527)	M1K4	248	2C		G01-3213-04	COMPRESSION SPRING	
-			B46-0100-50	WARRANTY CARD	K2K3	249	3D		G01-3215-04	EXTENSION SPRING	
-			B46-0100-50	WARRANTY CARD	M1K4E2	250	3C	*	G01-3261-04	COMPRESSION SPRING	
-			B46-0606-04	ID CARD	K2K3K4	252	3C		G11-3594-04	CUSHION	
-			B46-0612-14	ID CARD	M1E1E2	253	2D	*	G11-3646-04	CUSHION	
-			B58-1426-04	CAUTION CARD	K2K3K4	255	3D		G16-1482-14	SHEET	
-		*	B64-2962-10	INST. MANUAL (ENGLISH)	K2K3K4	256	3D		G16-1483-04	SHEET	
-		*	B64-2963-10	INST. MANUAL (FRE, SPA)	K2K3K4	-		*	H10-4925-02	POLYSTYRENE FOAMED FIXTURE	K2K3
-		*	B64-2964-00	INST. MANUAL (ENG, T-CHI)	M1	-		*	H10-4925-02	POLYSTYRENE FOAMED FIXTURE	K4M1E1
-		*	B64-2965-00	INST. MANUAL (ARABIC)	M1	-		*	H10-4933-02	POLYSTYRENE FOAMED FIXTURE	E2
-		*	B64-2966-00	INST. MANUAL (ENG, RUS)	E1	-		*	H25-0329-04	PROTECTION BAG (280X450X0.03)	K2K3
-		*	B64-2987-00	INST. MANUAL (ENGLISH)	E2	-		*	H25-0329-04	PROTECTION BAG (280X450X0.03)	K4M1E1
-		*	B64-2988-00	INST. MANUAL (FRE, GER)	E2	-		*	H25-0337-04	PROTECTION BAG (180X300X0.03)	
-		*	B64-2989-00	INST. MANUAL (DUT, ITA)	E2	-		*	H25-1111-04	PROTECTION BAG (280X450X0.03)	E2
-		*	B64-2990-00	INST. MANUAL (SPA, POR)	E2	-		*	H54-3342-03	ITEM CARTON CASE (KDC-MP7028)	K4
210	1C	*	B07-3125-01	ESCUTCHEON	M1E1	-		*	H54-3343-03	ITEM CARTON CASE (KDC-MP728)	K2
210	1C	*	B07-3125-01	ESCUTCHEON	M1E1	-		*	H54-3344-03	ITEM CARTON CASE (KDC-MP628)	K3
210	1C	*	B07-3125-01	ESCUTCHEON	K4E2	-		*	H54-3346-03	ITEM CARTON CASE (KDC-W7031Y)	E1
211	2C	*	B07-3095-02	ESCUTCHEON	K2K3	-		*	H54-3347-03	ITEM CARTON CASE (KDC-MP8029)	M1
213	3C	*	B10-4653-11	FRONT GLASS	K2	-		*	H54-3393-03	ITEM CARTON CASE (KDC-W7031)	E2
213	3C	*	B10-4654-11	FRONT GLASS	K3	258	2C	*	J19-7053-02	HOLDER	
213	3C	*	B10-4655-11	FRONT GLASS	E1E2	259	1C		J21-9716-03	MOUNTING HARDWARE ASSY	
213	3C	*	B10-4660-11	FRONT GLASS	M1	260	2D		J22-0114-03	MOUNTING HARDWARE ASSY	
213	3C	*	B10-4715-01	FRONT GLASS	K4	261	3D	*	J22-0263-02	MOUNTING HARDWARE	
214	2C	*	B10-4662-04	FRONT GLASS		264	3D		J31-1062-04	COLLAR	
215	2C	*	B19-2309-03	LIGHTING BOARD		266	2C	*	K24-4287-03	PUSH KNOB (EJECT)	M1E1
216	2C	*	B19-2310-03	LIGHTING BOARD		266	2C	*	K24-4287-03	PUSH KNOB (EJECT)	K4E2
217	3C	*	B43-1518-04	BADGE		266	2C	*	K24-4288-03	PUSH KNOB (EJECT)	K2K3
218	1C		D10-4589-04	LEVER		267	2C	*	K24-4290-03	PUSH KNOB (ATT)	M1E1
219	3C		D10-4805-03	LEVER		267	2C	*	K24-4290-03	PUSH KNOB (ATT)	K4E2
220	3C		D10-4806-03	LEVER		267	2C	*	K24-4291-03	PUSH KNOB (ATT)	K2K3
222	3C		D10-4807-13	LEVER		268	3C	*	K24-4293-03	PUSH KNOB (SRC)	M1E1
226	3D	*	D10-4875-13	SLIDER ASSY		268	3C	*	K24-4293-03	PUSH KNOB (SRC)	K4E2
227	2D		D13-2318-13	RACK (GEAR)		268	3C	*	K24-4294-03	PUSH KNOB (SRC)	K2K3
229	2D		D13-2320-04	GEAR		269	2C	*	K24-4296-03	PUSH KNOB (RELEASE)	M1E1
230	2D		D13-2321-04	GEAR		269	2C	*	K24-4296-03	PUSH KNOB (RELEASE)	K4E2
231	3C		D21-2442-04	SHAFT		269	2C	*	K24-4297-03	PUSH KNOB (RELEASE)	K2K3
232	3C		D21-2443-04	SHAFT		270	2C	*	K25-1696-02	PUSH KNOB (PRESET)	
234	2C	*	E29-2026-03	CONDUCTIVE RUBBER		273	3C	*	K29-7144-03	KEY TOP (FM/AM, SEEK)	
						275	2C	*	K29-7150-04	KNOB ASSY (VOL)	

E1 : KDC-W7031Y E2 : KDC-W7031 K2 : KDC-MP728
K3 : KDC-MP628 K4 : KDC-MP7028 M1 : KDC-MP8029
(E : Europe K : North America M : Other Areas W : Without Europe)

Δ Indicates safety critical components.

PARTS LIST

KDC-MP628/MP7028/MP728/MP8029/W7031/W7031Y

Ref. No.	Add	New	Parts No.	Description	Destination
276	1C		N09-6212-05	TAPPING SCREW	K2K3K4
276	1C	*	N09-6280-05	TAPPING SCREW	M1E1E2
277	1C		N99-1723-05	SCREW SET	K2K3K4
277	1C	*	N99-1758-05	SCREW SET	M1
A	3D	*	N09-6269-05	STEPPED SCREW	
B	3D		N09-6140-05	STEPPED SCREW	
C	3D		N09-6141-05	STEPPED SCREW	
D	2D		N09-6142-05	MACHINE SCREW	
E	3C		N09-6190-05	TAPPING SCREW	
F	3D	*	N19-2305-04	FLAT WASHER	
G	2D		N19-2184-04	FLAT WASHER	
H	3C		N19-2193-04	FLAT WASHER	
J	2D		N24-3015-60	E TYPE RETAINING RING	
K	3D	*	N09-6286-05	STEPPED SCREW	
L	3D	*	N09-6326-05	MACHINE SCREW	
M	2C	*	N78-2660-48	PAN HEAD TAPTITE SCREW	
N	2C		N80-2006-48	PAN HEAD TAPTITE SCREW	
P	2C		N80-2008-43	PAN HEAD TAPTITE SCREW	
Q	1D		N83-3005-48	PAN HEAD TAPTITE SCREW	
R	2D		N83-3008-48	PAN HEAD TAPTITE SCREW	
S	3C	*	N86-2004-43	BINDING HEAD TAPTITE SCREW	
280	1C		T90-0523-05	ANTENNA ADAPTOR	E1E2
PM1	2D		T42-1086-14	MOTOR ASSY	
DME1	1D		X92-5080-00	MECHANISM ASSY	K2K3
DME1	1D		X92-5080-00	MECHANISM ASSY	M1K4
DME1	1D	*	X92-5080-04	MECHANISM ASSY	E1
DME1	1D	*	X92-5080-05	MECHANISM ASSY	E2
SUB-CIRCUIT UNIT (X16-2570-10 / X16-2732-70)					
287	3C		F20-2284-14	INSULATING SHEET	
FPC1	3C		J86-0003-05	FPC (LEAD FREE)	
SWITCH UNIT (X16-2950-1x / X16-3122-72)					
D1-3			B30-1605-05	LED (2-COLOR, PG/RED)	
D4-7		*	B30-1731-05	LED (BLUE)	
D8			B30-1692-05	LED (HR/YG)	
D9-12			B30-1605-05	LED (2-COLOR, PG/RED)	
D13-15		*	B30-1731-05	LED (BLUE)	
D16-18			B30-1605-05	LED (2-COLOR, PG/RED)	
C1-4			CK73GB1H103K	CHIP C 0.010UF K	
C6-8			CK73GB1H103K	CHIP C 0.010UF K	
C10			CK73GB0J105K	CHIP C 1.0UF K	
C11,12			CK73GB1H332K	CHIP C 3300PF K	K2K3K4
C13			CK73EB1A475K	CHIP C 4.7UF K	K2K3K4
C15			CK73FB1A225K	CHIP C 2.2UF K	K2K3K4
C16-18			CK73GB1H103K	CHIP C 0.010UF K	
C20-23			CK73GB1H103K	CHIP C 0.010UF K	
C24,25			CK73GB1E473K	CHIP C 0.047UF K	
C26,27			CK73GB1H103K	CHIP C 0.010UF K	
C28,29			CK73GB0J105K	CHIP C 1.0UF K	
C30			CK73GB1H103K	CHIP C 0.010UF K	
C31			CC73GCH1H221J	CHIP C 220PF J	
C32			CK73FB1A225K	CHIP C 2.2UF K	
C33			CK73GB1H103K	CHIP C 0.010UF K	

Ref. No.	Add	New	Parts No.	Description	Destination
C34			CK73GB1A224K	CHIP C 0.22UF K	
C35,36			CK73GB1H103K	CHIP C 0.010UF K	
C37		*	C93-1217-05	CHIP C 0.047UF 100WV	
C38			CK73FB1A225K	CHIP C 2.2UF K	
C39			CK73FB0J106K	CHIP C 10UF K	
C40			CK73GB1C104K	CHIP C 0.10UF K	
C41,42			CK73FB0J106K	CHIP C 10UF K	
C43			CC73GCH1H101J	CHIP C 100PF J	
C44			CK73GB1C104K	CHIP C 0.10UF K	
J1			E59-0839-05	RECTANGULAR PLUG	
289	2C	*	J19-7054-03	HOLDER	
X1		*	L78-1208-05	RESONATOR (6.6MHZ)	
CP2			RK74HB1J223J	CHIP-COM 22K J 1/16W	
CP3		*	RK74GA1J223J	CHIP-COM 22K J 1/16W	
CP4			RK74HB1J472J	CHIP-COM 4.7K J 1/16W	
CP5			RK74GA1J332J	CHIP-COM 3.3K J 1/16W	
CP6			RK74GA1J473J	CHIP-COM 47K J 1/16W	
CP7			RK74HB1J473J	CHIP-COM 47K J 1/16W	
CP8		*	RK74GA1J331J	CHIP-COM 330 J 1/16W	
CP9-14			RK74HB1J331J	CHIP-COM 330 J 1/16W	
CP15			RK74HB1J223J	CHIP-COM 22K J 1/16W	
CP16			RK74HB1J331J	CHIP-COM 330 J 1/16W	
CP17			RK74HB1J223J	CHIP-COM 22K J 1/16W	
CP18			RK74HB1J331J	CHIP-COM 330 J 1/16W	
CP19			RK74HB1J223J	CHIP-COM 22K J 1/16W	
CP20			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP21			RK74HB1J331J	CHIP-COM 330 J 1/16W	
CP22			RK74HB1J223J	CHIP-COM 22K J 1/16W	
CP23			RK74HB1J101J	CHIP-COM 100 J 1/16W	
CP24			RK74HB1J102J	CHIP-COM 1.0K J 1/16W	
CP25		*	RK74HB1J332J	CHIP-COM 3.3K J 1/16W	
CP26			RK74HB1J223J	CHIP-COM 22K J 1/16W	
CP27			RK74HB1J101J	CHIP-COM 100 J 1/16W	
CP28			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP29			RK74HB1J101J	CHIP-COM 100 J 1/16W	
CP30			RK74HB1J102J	CHIP-COM 1.0K J 1/16W	
CP31			RK74HB1J223J	CHIP-COM 22K J 1/16W	
CP34			RK74HB1J473J	CHIP-COM 47K J 1/16W	
CP35		*	RK74GA1J223J	CHIP-COM 22K J 1/16W	
R1			RK73EB2E751J	CHIP R 750 J 1/4W	
R2-4			RK73FB2B361J	CHIP R 360 J 1/8W	
R5-7			RK73EB2E471J	CHIP R 470 J 1/4W	
R8			RK73FB2B271J	CHIP R 270 J 1/8W	
R9			RK73GB2A333J	CHIP R 33K J 1/10W	
R10			RK73GB2A512J	CHIP R 5.1K J 1/10W	K2K3K4
R11			RK73GB2A223J	CHIP R 22K J 1/10W	E2M1E1
R11,12			RK73GB2A223J	CHIP R 22K J 1/10W	K2K3K4
R13			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R14			RK73GB2A103J	CHIP R 10K J 1/10W	K2K3K4
R15,16			RK73GB2A274J	CHIP R 270K J 1/10W	K2K3K4
R17			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R18			RK73GB2A473J	CHIP R 47K J 1/10W	

E1 : KDC-W7031Y E2 : KDC-W7031 K2 : KDC-MP728
K3 : KDC-MP628 K4 : KDC-MP7028 M1 : KDC-MP8029

△ Indicates safety critical components.

PARTS LIST

SWITCH UNIT (X16-2950-1x / X16-3122-72)

Ref. No.	Add	New	Parts No.	Description	Destination
R19			RK73GB2A100J	CHIP R 10 J 1/10W	K2K3K4
R20			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R23,24			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R26			RK73GB2A223J	CHIP R 22K J 1/10W	
R27,28			RK73GB2A103J	CHIP R 10K J 1/10W	
R29			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R30			RK73GB2A223J	CHIP R 22K J 1/10W	
R33			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R34			RK73GB2A101J	CHIP R 100 J 1/10W	
R36			RK73GB2A101J	CHIP R 100 J 1/10W	
R37			RK73GB2A473J	CHIP R 47K J 1/10W	
R38			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R39-41			RK73GB2A473J	CHIP R 47K J 1/10W	
R42			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R43,44		*	RK73PB2H120J	CHIP R 12 J 1/2W	
R45-49			RK73EB2E101J	CHIP R 100 J 1/4W	
R50			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R52			RK73GB2A223J	CHIP R 22K J 1/10W	
R53			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R54			RK73EB2E333J	CHIP R 33K J 1/4W	
R55			RK73GB2A473J	CHIP R 47K J 1/10W	
R56			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R58			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R59			RK73GB2A473J	CHIP R 47K J 1/10W	
R60			RK73FB2B220J	CHIP R 22 J 1/8W	
R61			RK73GB2A104J	CHIP R 100K J 1/10W	
R62		*	RK73PB2H2R7J	CHIP R 2.7 J 1/2W	
R64			RK73GB2A223J	CHIP R 22K J 1/10W	
R66			RK73EB2E2821J	CHIP R 820 J 1/4W	
W1,2			R92-2053-05	CHIP R 0 OHM J 1/8W	
S2			S70-0901-05	TACT SWITCH	
S17,18			S70-0901-05	TACT SWITCH	
S19		*	S70-0926-15	TACT SWITCH	
S1		*	T99-0456-05	ROTARY ENCODER	
ED1		*	JN12823A	FLUORESCENT INDICATOR TUBE	
IC1		*	MX231613T14T9	ROM IC	
IC2			BA3830F	ANALOGUE IC	
IC4		*	703134GJ011-A	MICROCONTROLLER IC	
IC5		*	BD5237FVE	ANALOGUE IC	
IC6			PNA4S22M	ANALOGUE IC	
IC7			TC74LVX08FT	MOS-IC	
IC8		*	TC7WT126FU-F	MOS-IC	
IC9			TC7SH32FU-F	MOS-IC	
IC10		*	SI-3025KMNF	ANALOGUE IC	
IC11			SI-3033LUSNF	ANALOGUE IC	
Q1,2			2SC4617	TRANSISTOR	
Q3-5			2SD2351(W)	TRANSISTOR	
Q6			2SB1689	TRANSISTOR	
Q7			2SA1774	TRANSISTOR	
Q8		*	DTC143ZE	DIGITAL TRANSISTOR	
Q9			2SC4617	TRANSISTOR	
Q10			2SA1774	TRANSISTOR	
Q11			2SC2713-F	TRANSISTOR	
Q12			2SC4667-F	TRANSISTOR	

Ref. No.	Add	New	Parts No.	Description	Destination
Q13			2SB1198K	TRANSISTOR	
CD PLAYER UNIT (X32-574x-xx) 0-00 : K2K3K4M1, 0-02 : E1E2					
C1,2			CK73GB1A105K	CHIP C 1.0UF K	
C3,4			CC73GCH1H681J	CHIP C 680PF J	
C5,6			CC73GCH1H680J	CHIP C 68PF J	
C7,8			CK73GB1H222K	CHIP C 2200PF K	
C9			CK73GB1H104K	CHIP C 0.10UF K	
C10			CK73FB0J106K	CHIP C 10UF K	
C11			CK73GB1H103K	CHIP C 0.010UF K	
C12			CK73GB1A105K	CHIP C 1.0UF K	
C20			CC73GCH1H391J	CHIP C 390PF J	
C21			CK73GB1H472K	CHIP C 4700PF K	
C22			CK73GB1H152K	CHIP C 1500PF K	
C23			CC73GCH1H391J	CHIP C 390PF J	
C24			CK73EB1A475K	CHIP C 4.7UF K	
C25			CK73FB0J106K	CHIP C 10UF K	
C30			CK73GB1H104K	CHIP C 0.10UF K	
C31			CK73GB0J105K	CHIP C 1.0UF K	
C32			CK73GB1H104K	CHIP C 0.10UF K	
C34			CK73FB0J475K	CHIP C 4.7UF K	
C35			CK73GB1H104K	CHIP C 0.10UF K	
C38-40			CK73GB1H104K	CHIP C 0.10UF K	
C41			CK73GB0J225K	CHIP C 2.2UF K	
C42			CK73GB1A105K	CHIP C 1.0UF K	
C43			C92-1792-05	ELECTRO 22UF 6.3WV	
C50			CK73GB1H104K	CHIP C 0.10UF K	
C51			CK73GB1H102K	CHIP C 1000PF K	
C52			CK73GB1H104K	CHIP C 0.10UF K	
C53,54			CK73GB0J475K	CHIP C 4.7UF K	
C55			CK73FB0J106K	CHIP C 10UF K	
C56,57			CK73GB1H104K	CHIP C 0.10UF K	
C58			CK73FB0J475K	CHIP C 4.7UF K	
C60,61			CK73GB1H104K	CHIP C 0.10UF K	
C62			CK73FB0J475K	CHIP C 4.7UF K	
C63			CK73GB0J225K	CHIP C 2.2UF K	
C64			CK73GB1H152K	CHIP C 1500PF K	
C65,66			CK73GB1H102K	CHIP C 1000PF K	
C67			CK73GB1H152K	CHIP C 1500PF K	
C68			CK73GB1H103K	CHIP C 0.010UF K	
C69			CK73GB1H332K	CHIP C 3300PF K	
C70			CK73GB1H682K	CHIP C 6800PF K	
C71			CK73GB1H104K	CHIP C 0.10UF K	
C72			CK73GB1H103K	CHIP C 0.010UF K	
C73			CC73GCH1H120J	CHIP C 12PF J	
C74			CC73GCH1H060D	CHIP C 6.0PF D	
C75			CK73GB1H104K	CHIP C 0.10UF K	
C76			CC73GCH1H030C	CHIP C 3.0PF C	
C77			CC73GCH1H020C	CHIP C 2.0PF C	
C78			CK73GB0J225K	CHIP C 2.2UF K	
C79,80			CK73GB1H104K	CHIP C 0.10UF K	
C81,82			CC73GCH1H470J	CHIP C 47PF J	
C83			CK73GB1H103K	CHIP C 0.010UF K	
C85			CK73FB0J106K	CHIP C 10UF K	
C90			CK73EB0J226K	CHIP C 22UF K	E1E2

E1 : KDC-W7031Y E2 : KDC-W7031 K2 : KDC-MP728
 K3 : KDC-MP628 K4 : KDC-MP7028 M1 : KDC-MP8029
 (E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

CD PLAYER UNIT (X32-574x-xx) 0-00 : K2K3K4M1, 0-02 : E1E2

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
C91			CK73GB1H104K	CHIP C 0.10UF K	E1E2
C100			CK73GB1A224K	CHIP C 0.22UF K	
C101			CK73GB1H103K	CHIP C 0.010UF K	
CN1			E41-2083-05	FLAT CABLE CONNECTOR	
CN2			E41-2297-05	FLAT CABLE CONNECTOR	
X1			L78-0862-05	RESONATOR (16.00MHZ)	
X2			L78-0851-05	RESONATOR (16.93MHZ)	
CP1			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP2			RK74GA1J472J	CHIP-COM 4.7K J 1/16W	
CP4,5			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP6,7			RK74HB1J103J	CHIP-COM 10K J 1/16W	
CP8-11			RK74HB1J101J	CHIP-COM 100 J 1/16W	
CP12			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP13			RK74GA1J103J	CHIP-COM 10K J 1/16W	
CP27			RK74GB1J472J	CHIP-COM 4.7K J 1/16W	
CP28			RK74GB1J103J	CHIP-COM 10K J 1/16W	
R1,2			RK73GH2A103D	CHIP R 10K D 1/10W	
R3,4			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R5,6			RK73GB2A752J	CHIP R 7.5K J 1/10W	
R7,8			RK73GB2A333J	CHIP R 33K J 1/10W	
R9,10			RK73GH2A103D	CHIP R 10K D 1/10W	
R11,12			RK73GB2A331J	CHIP R 330 J 1/10W	
R14-16			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	
R20			RK73GB2A123J	CHIP R 12K J 1/10W	
R21			RK73GB2A133J	CHIP R 13K J 1/10W	
R22,23			RK73GB2A123J	CHIP R 12K J 1/10W	
R24			RK73GB2A432J	CHIP R 4.3K J 1/10W	
R25			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R26			RK73GB2A183J	CHIP R 18K J 1/10W	
R27			RK73GB2A163J	CHIP R 16K J 1/10W	
R28			RK73GB2A133J	CHIP R 13K J 1/10W	
R29			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R30			RK73GB2A101J	CHIP R 100 J 1/10W	
R31			RK73GB2A133J	CHIP R 13K J 1/10W	
R40-44			RK73GB2A103J	CHIP R 10K J 1/10W	
R48			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R49			RK73GB2A103J	CHIP R 10K J 1/10W	K2K3 M1K4
R50			RK73GB2A103J	CHIP R 10K J 1/10W	
R50			RK73GB2A103J	CHIP R 10K J 1/10W	
R51,52			RK73GB2A103J	CHIP R 10K J 1/10W	
R55			RK73GB2A103J	CHIP R 10K J 1/10W	
R56			RK73GB2A101J	CHIP R 100 J 1/10W	
R57			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R70			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R71			RK73GB2A101J	CHIP R 100 J 1/10W	
R72			RK73GB2A333J	CHIP R 33K J 1/10W	
R74			RK73GB2A333J	CHIP R 33K J 1/10W	
R75			RK73GB2A750J	CHIP R 75 J 1/10W	
R78			RK73GB2A103J	CHIP R 10K J 1/10W	
R79			RK73GB2A333J	CHIP R 33K J 1/10W	
R80,81			RK73GB2A682J	CHIP R 6.8K J 1/10W	
R88			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R89			RK73GB2A104J	CHIP R 100K J 1/10W	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R90			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R91			RK73GB2A910J	CHIP R 91 J 1/10W	
R92			RK73GB2A225J	CHIP R 2.2M J 1/10W	
R93			RK73GB2A103J	CHIP R 10K J 1/10W	
R100			RK73GB2A470J	CHIP R 47 J 1/10W	
R101			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R102			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R103,104			RK73GB2A223J	CHIP R 22K J 1/10W	
R112,113			RK73GB2A100J	CHIP R 10 J 1/10W	
R150			RK73GB2A103J	CHIP R 10K J 1/10W	
R151			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	
W1			R92-1252-05	CHIP R 0 OHM J 1/16W	
W20,21			R92-1252-05	CHIP R 0 OHM J 1/16W	
S1,2			S68-0863-05	PUSH SWITCH	
S3			S68-0862-05	PUSH SWITCH	
D1			DAP202U	DIODE	
IC1			TAR5S33-F	ANALOGUE IC	
IC2			NJM4580V-ZB	ANALOGUE IC	
IC3			BA5824FP	ANALOGUE IC	
IC4			703030BYGCJ09A	MICROCONTROLLER IC	
IC5			XC6219B332MR	ANALOGUE IC	E1E2
IC6			BA33BCOWFP	ANALOGUE IC	
IC7			UPD63763GJ	MOS-IC	
IC8			MSM51V4265EP7T	DRAM IC	
IC11			TC7SET32FU-F	MOS-IC	
Q1			2SA1576A	TRANSISTOR	
Q4			2SB0970	TRANSISTOR	
Q5			DTA143XUA	DIGITAL TRANSISTOR	
Q6			DTC143XUA	DIGITAL TRANSISTOR	
Q7			DTA143XUA	DIGITAL TRANSISTOR	
Q8			DTC143XUA	DIGITAL TRANSISTOR	
ELECTRIC UNIT (X34-3xxx-xx)					
D451			B30-1566-05	LED (RED)	
C1		*	C90-6744-05	ELECTRO 3900UF 16WV	
C10			CK73FB1C105K	CHIP C 1.0UF K	
C11			CD04AY1A221M	ELECTRO 220UF 10WV	
C20			CD04BA0J101M	ELECTRO 100UF 6.3WV	
C21			C90-5692-05	ELECTRO 220UF 16WV	
C22			CK73GB1H103K	CHIP C 0.010UF K	
C23			CE32CL1C100M	CHIP EL 10UF 16WV	
C30			CK73GB1A474K	CHIP C 0.47UF K	
C31			CD04AY1A101M	ELECTRO 100UF 10WV	
C32			CK73GB1A474K	CHIP C 0.47UF K	
C33		*	CE32BJ1C101M	CHIP EL 100UF 16WV	
C40			CK73GB1H103K	CHIP C 0.010UF K	
C41			CD04BA0J470M	ELECTRO 47UF 6.3WV	
C42			CK73GB1C104K	CHIP C 0.10UF K	
C43			CK73GB1H104K	CHIP C 0.10UF K	
C44			CD04AS1C100M	ELECTRO 10UF 16WV	
C50			CK73GB1H104K	CHIP C 0.10UF K	
C51			CD04AS1C470M	ELECTRO 47UF 16WV	
C60			CK73FB1C474K	CHIP C 0.47UF K	
C61			CK73GB0J105K	CHIP C 1.0UF K	

E1 : KDC-W7031Y E2 : KDC-W7031 K2 : KDC-MP728
K3 : KDC-MP628 K4 : KDC-MP7028 M1 : KDC-MP8029

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-3xxx-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
C63			CK73FB0J106K	CHIP C 10UF K		C458			CK73GB0J105K	CHIP C 1.0UF K	K2K4
C64			CK73GB1H103K	CHIP C 0.010UF K		C500-504			CK73EB1A475K	CHIP C 4.7UF K	K2K3K4
C67			CK73GB1H103K	CHIP C 0.010UF K		C505			CK73GB1H103K	CHIP C 0.010UF K	K2K3K4
C68			CK73GB1C104K	CHIP C 0.10UF K		C506			CE32CL1C100M	CHIP EL 10UF 16WV	K2K3K4
C69			CK73FB0J106K	CHIP C 10UF K		C550,551			CK73GB1H103K	CHIP C 0.010UF K	
C71			CK73GB1C104K	CHIP C 0.10UF K		C600,601			CK73EB1C225K	CHIP C 2.2UF K	M1K4
C72			CK73GB1C683K	CHIP C 0.068UF K		C602			CK73GB1H103K	CHIP C 0.010UF K	M1K4
C73		*	CK73EB1C106K	CHIP C 10UF K		C603			CK73GB1E223K	CHIP C 0.022UF K	M1K4
C74		*	CD04BK1E101M	ELECTRO 100UF 25WV		C604			CD04AS1C220M	ELECTRO 22UF 16WV	M1K4
C75			CD04BF1C101M	ELECTRO 100UF 16WV		C605-608			CK73EB1C225K	CHIP C 2.2UF K	M1K4
C76			CK73GB1C224K	CHIP C 0.22UF K		C609			CD04BF1C101M	ELECTRO 100UF 16WV	M1K4
C81		*	C93-1382-05	CHIP C 1UF K		C610			CD04AS1C220M	ELECTRO 22UF 16WV	M1K4
C82		*	C93-1381-05	CHIP C 1UF K		C610			CD04AS1E4R7M	ELECTRO 4.7UF 25WV	E2
C84		*	C93-1381-05	CHIP C 1UF K		C610			CD04AS1E4R7M	ELECTRO 4.7UF 25WV	K2K3E1
C85		*	C93-1382-05	CHIP C 1UF K		C611			CE32CL1C100M	CHIP EL 10UF 16WV	
C86			CK73EB1C105K	CHIP C 1.0UF K		C612,613			CD04AT1C100M	ELECTRO 10UF 16WV	M1K4
C87			CK73GB1H103K	CHIP C 0.010UF K		C614			CE32CL1C100M	CHIP EL 10UF 16WV	E1E2
C88			CK73GB1C224K	CHIP C 0.22UF K		C614			CE32CL1C100M	CHIP EL 10UF 16WV	K2K3M1
C100			CK73GB1H104K	CHIP C 0.10UF K		C614,615			CE32CL1C100M	CHIP EL 10UF 16WV	K4
C102,103			CC73GCH1H220J	CHIP C 22PF J		C616,617			CD04AT1C100M	ELECTRO 10UF 16WV	K4
C104-106			CK73GB1H103K	CHIP C 0.010UF K		C618,619			CE32CL1C100M	CHIP EL 10UF 16WV	K4
C107			CK73GB1H102K	CHIP C 1000PF K		C619			CE32CL1C100M	CHIP EL 10UF 16WV	E1E2
C109-113			CK73GB1H103K	CHIP C 0.010UF K		C619			CE32CL1C100M	CHIP EL 10UF 16WV	K2K3M1
C114			CD04AS0J470M	ELECTRO 47UF 6.3WV		C620,621			CD04AS1C100M	ELECTRO 10UF 16WV	
C200,201			CK73GB1H103K	CHIP C 0.010UF K		C622			CE32CL1C100M	CHIP EL 10UF 16WV	
C202			CK73GB1H102K	CHIP C 1000PF K		C623-628			CK73GB1H102K	CHIP C 1000PF K	K4
C203			CK73GB1E223K	CHIP C 0.022UF K		C623,624			CK73GB1H102K	CHIP C 1000PF K	M1
C204			CK73GB1H103K	CHIP C 0.010UF K		C627,628			CK73GB1H102K	CHIP C 1000PF K	M1
C205,206			CK73FB1C105K	CHIP C 1.0UF K		C629			CK73FB1C474K	CHIP C 0.47UF K	K2K3
C300			CD04AS1C470M	ELECTRO 47UF 16WV		C629			CK73FB1C474K	CHIP C 0.47UF K	M1K4
C301			CD04AT1H010M	ELECTRO 1UF 50WV		C630			CD04AT0J470M	ELECTRO 47UF 6.3WV	K2K3
C302			CD04AS1E4R7M	ELECTRO 4.7UF 25WV		C630			CD04AT0J470M	ELECTRO 47UF 6.3WV	M1K4
C303,304			CD04AS1H3R3M	ELECTRO 3.3UF 50WV		C631			CK73FB1C474K	CHIP C 0.47UF K	K2K3
C305			CK73FB1A105K	CHIP C 1.0UF K		C631			CK73FB1C474K	CHIP C 0.47UF K	M1K4
C306			CK73GB1H103K	CHIP C 0.010UF K		C632			CK73GB1H103K	CHIP C 0.010UF K	K2K3
C307			CE32CL1C100M	CHIP EL 10UF 16WV		C632			CK73GB1H103K	CHIP C 0.010UF K	M1K4
C308,309			CD04AS1H2R2M	ELECTRO 2.2UF 50WV		C633,634			CE32CL1C100M	CHIP EL 10UF 16WV	
C310,311			CK73FB1C474K	CHIP C 0.47UF K		C635-638			CK73GB0J105K	CHIP C 1.0UF K	K4
C364,365			CD04AS1H010M	ELECTRO 1UF 50WV		C637,638			CK73GB0J105K	CHIP C 1.0UF K	M1
C369			CK73FB1A105K	CHIP C 1.0UF K		C701			CK73FB1C474K	CHIP C 0.47UF K	
C384			CK73FB1A105K	CHIP C 1.0UF K		C702			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C385,386			CK73GB1H152K	CHIP C 1500PF K		C703			CK73FB1C474K	CHIP C 0.47UF K	
C387,388			CC73GCH1H101J	CHIP C 100PF J		C704			CK73GB1H103K	CHIP C 0.010UF K	
C402			CK73GB1H103K	CHIP C 0.010UF K	E1E2	C750			CK73FB1C105K	CHIP C 1.0UF K	
C403			CK73FB1A225K	CHIP C 2.2UF K	E1E2	C752-755		*	C90-6742-05	NP-ELECT 4.7UF 16WV	
C404			CC73GCH1H331J	CHIP C 330PF J	E1E2	C756			CD04AS1A101M	ELECTRO 100UF 10WV	
C405			CD04AT1C100M	ELECTRO 10UF 16WV	E1E2	C757		*	C90-6742-05	NP-ELECT 4.7UF 16WV	
C407			CK73GB1H103K	CHIP C 0.010UF K		C758			CK73GB1H103K	CHIP C 0.010UF K	
C409,410			CK73GB1H103K	CHIP C 0.010UF K		C759			CK73FB1C105K	CHIP C 1.0UF K	
C412			CK73GB1H103K	CHIP C 0.010UF K		C800-802			CD04AS1C100M	ELECTRO 10UF 16WV	
C414,415			CC73GCH1H120J	CHIP C 12PF J	E1E2	C803			CK73GB1H104K	CHIP C 0.10UF K	
C450-452			CK73GB1C104K	CHIP C 0.10UF K	K3M1	C804			CK73GB1H103K	CHIP C 0.010UF K	
C450-455			CK73GB1C104K	CHIP C 0.10UF K	E1E2	C805			CD04AS1C470M	ELECTRO 47UF 16WV	
C450-455			CK73GB1C104K	CHIP C 0.10UF K	K2K4	C806,807			CK73GB1H102K	CHIP C 1000PF K	
C458			CK73GB0J105K	CHIP C 1.0UF K	E1E2	C808			CD04BA1C101M	ELECTRO 100UF 16WV	

E1 : KDC-W7031Y E2 : KDC-W7031 K2 : KDC-MP728
K3 : KDC-MP628 K4 : KDC-MP7028 M1 : KDC-MP8029
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-3xxx-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
C809			CC73GCH1H101J	CHIP C 100PF J	
C812			CC73GCH1H471J	CHIP C 470PF J	
C813			CC73GCH1H101J	CHIP C 100PF J	
CN5			E41-0944-05	PIN ASSY	E1E2
CN450		*	E41-2259-05	PIN ASSY	
CN500		*	E41-2344-05	FLAT CABLE CONNECTOR	
CN550		*	E41-2352-05	FLAT CABLE CONNECTOR	
CN600			E41-0224-05	PIN ASSY	
△ J1			E58-0991-05	RECTANGULAR RECEPTACLE	
J2			E56-0855-05	CYLINDRICAL RECEPTACLE	
W400	1D	*	E30-6438-05	CORD WITH PLUG	
L1			L33-1988-05	CHOKE COIL ASSY	
L60,61		*	L33-2230-05	SMALL FIXED INDUCTOR (100UH)	
L81		*	L33-2228-05	SMALL FIXED INDUCTOR (4.7UH)	
L100			L92-0075-05	CHIP FERRITE	
L101			L41-4795-33	SMALL FIXED INDUCTOR (4.7UH)	
L400			L33-2260-05	CHOKE COIL	
L401			L41-4795-33	SMALL FIXED INDUCTOR (4.7UH)	
L403			L41-4795-33	SMALL FIXED INDUCTOR (4.7UH)	
L405			L41-4795-33	SMALL FIXED INDUCTOR (4.7UH)	E1E2
L600			L41-2205-33	SMALL FIXED INDUCTOR (4.7UH)	M1K4
X100			L78-0872-05	RESONATOR (12MHZ)	
X101			L77-2880-05	CRYSTAL RESONATOR	
X401			L77-2002-05	CRYSTAL RESONATOR	E1E2
Q	1D		N83-3005-48	PAN HEAD TAPTITE SCREW	
T	2D		N80-3010-48	PAN HEAD TAPTITE SCREW	
V	2D		N83-3020-48	PAN HEAD TAPTITE SCREW	
CP100			RK74GB1J101J	CHIP-COM 100 J 1/16W	
CP101-103			RK74GA1J101J	CHIP-COM 100 J 1/16W	E1E2
CP101-103			RK74GA1J101J	CHIP-COM 100 J 1/16W	K2K4
CP101,102			RK74GA1J101J	CHIP-COM 100 J 1/16W	K3M1
CP104			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
CP106			RK74GA1J103J	CHIP-COM 10K J 1/16W	
CP107			RK74GB1J102J	CHIP-COM 1.0K J 1/16W	
CP108			RK74GA1J222J	CHIP-COM 2.2K J 1/16W	
CP109			RK74GB1J101J	CHIP-COM 100 J 1/16W	K2K3
CP109			RK74GB1J101J	CHIP-COM 100 J 1/16W	K4E1E2
CP110,111			RK74GA1J101J	CHIP-COM 100 J 1/16W	
R1			RK73EB2E102J	CHIP R 1.0K J 1/4W	M1E1E2
R2,3			RK73EB2E103J	CHIP R 10K J 1/4W	
R10			RK73GH2A243D	CHIP R 24K D 1/10W	
R11			RK73FB2B221J	CHIP R 220 J 1/8W	
R12			RK73GB2A153J	CHIP R 15K J 1/10W	
R13			RK73GH2A432D	CHIP R 4.3K D 1/10W	
R20			RK73FB2B203J	CHIP R 20K J 1/8W	
R21			RK73GB2A223J	CHIP R 22K J 1/10W	
R22			RK73GB2A101J	CHIP R 100 J 1/10W	
R23			RK73FB2B272J	CHIP R 2.7K J 1/8W	
R30			RK73FB2B102J	CHIP R 1.0K J 1/8W	
R31			RK73FB2B152J	CHIP R 1.5K J 1/8W	
R40			RK73FB2B223J	CHIP R 22K J 1/8W	
R41			RK73FB2B182J	CHIP R 1.8K J 1/8W	
R42			RK73GB2A105J	CHIP R 1.0M J 1/10W	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R46			RK73SB3A2R2J	CHIP R 2.2 J 1W	
R50			RK73FB2B152J	CHIP R 1.5K J 1/8W	
R52			RK73FB2B102J	CHIP R 1.0K J 1/8W	
R60			RK73GH2A103D	CHIP R 10K D 1/10W	
R61			RN73GH1J153D	CHIP R 15K D 1/16W	
R62			RK73GB2A103J	CHIP R 10K J 1/10W	
R63			RK73GH2A912D	CHIP R 9.1K D 1/10W	
R64			RK73GH2A103D	CHIP R 10K D 1/10W	
R66			RK73GB2A104J	CHIP R 100K J 1/10W	
R67			RK73GH2A333D	CHIP R 33K D 1/10W	
R68			RN73GH1J243D	CHIP R 24K D 1/16W	
R69			RK73GB2A104J	CHIP R 100K J 1/10W	
R70			RK73GH2A303D	CHIP R 30K D 1/10W	
R71		*	RN73GH1J1912D	CHIP R 19.1K D 1/16W	
R73			RK73GB2A103J	CHIP R 10K J 1/10W	
R74			RK73GH2A822D	CHIP R 8.2K D 1/10W	
R75			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R76,77			RK73GB2A104J	CHIP R 100K J 1/10W	
R79			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R80		*	RK73GH2A434D	CHIP R 430K D 1/10W	
R81			RK73GB2A473J	CHIP R 47K J 1/10W	
R82			RK73GH2A103D	CHIP R 10K D 1/10W	
R83			RK73GB2A104J	CHIP R 100K J 1/10W	
R84			RK73GH2A153D	CHIP R 15K D 1/10W	
R85		*	RK73PB2H102J	CHIP R 1.0K J 1/2W	
R86			RK73GB2A473J	CHIP R 47K J 1/10W	
R91,92			RK73GB2A104J	CHIP R 100K J 1/10W	
R93			RK73FB2B431J	CHIP R 430 J 1/8W	
R100-104			RK73GB2A104J	CHIP R 100K J 1/10W	
R105			RK73GB2A101J	CHIP R 100 J 1/10W	
R106			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R107			RK73GB2A473J	CHIP R 47K J 1/10W	
R109			RK73GB2A223J	CHIP R 22K J 1/10W	
R110			RK73GB2A103J	CHIP R 10K J 1/10W	
R111			RK73GB2A104J	CHIP R 100K J 1/10W	
R112			RK73GB2A473J	CHIP R 47K J 1/10W	
R113			RK73GB2A103J	CHIP R 10K J 1/10W	
R114			RK73GB2A473J	CHIP R 47K J 1/10W	
R115			RK73GB2A101J	CHIP R 100 J 1/10W	
R117			RK73GB2A101J	CHIP R 100 J 1/10W	
R118			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R119			RK73GB2A223J	CHIP R 22K J 1/10W	
R120			RK73GB2A104J	CHIP R 100K J 1/10W	
R121			RK73GB2A103J	CHIP R 10K J 1/10W	
R122,123			RK73GB2A101J	CHIP R 100 J 1/10W	
R125			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R126			RK73GB2A101J	CHIP R 100 J 1/10W	
R127			RK73GB2A103J	CHIP R 10K J 1/10W	
R128			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R129			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R130			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R131			RK73GB2A473J	CHIP R 47K J 1/10W	
R132,133			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R134			RK73GB2A101J	CHIP R 100 J 1/10W	
R139			RK73GB2A473J	CHIP R 47K J 1/10W	

E1 : KDC-W7031Y E2 : KDC-W7031 K2 : KDC-MP728
K3 : KDC-MP628 K4 : KDC-MP7028 M1 : KDC-MP8029

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-3xxx-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R141,142			RK73GB2A473J	CHIP R 47K J 1/10W		R407,408			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R144,145			RK73GB2A101J	CHIP R 100 J 1/10W		R409			RK73FB2B102J	CHIP R 1.0K J 1/8W	
R146			RK73GB2A333J	CHIP R 33K J 1/10W		R410-412			RK73GB2A222J	CHIP R 2.2K J 1/10W	E1E2
R147			RK73GB2A102J	CHIP R 1.0K J 1/10W		R450,451			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R148			RK73GB2A473J	CHIP R 47K J 1/10W		R452			RK73GB2A241J	CHIP R 240 J 1/10W	
R149,150			RK73GB2A223J	CHIP R 22K J 1/10W		R453,454			RK73GB2A102J	CHIP R 1.0K J 1/10W	E1E2
R153			RK73GB2A223J	CHIP R 22K J 1/10W	K2K3K4	R453,454			RK73GB2A102J	CHIP R 1.0K J 1/10W	K2K4
R154,155			RK73GB2A223J	CHIP R 22K J 1/10W	M1	R457			RK73GH2A241D	CHIP R 240 D 1/10W	E1E2
R155			RK73GB2A223J	CHIP R 22K J 1/10W	K4	R457			RK73GH2A241D	CHIP R 240 D 1/10W	K2K4
R155-158			RK73GB2A223J	CHIP R 22K J 1/10W	E1E2	R458			RK73GH2A111D	CHIP R 110 D 1/10W	E1E2
R156			RK73GB2A223J	CHIP R 22K J 1/10W	K2	R458			RK73GH2A111D	CHIP R 110 D 1/10W	K2K4
R157			RK73GB2A223J	CHIP R 22K J 1/10W	M1	R500			RK73GB2A473J	CHIP R 47K J 1/10W	K2K3K4
R158			RK73GB2A223J	CHIP R 22K J 1/10W	K4	R501			RK73EB2E101J	CHIP R 100 J 1/4W	
R158-160			RK73GB2A223J	CHIP R 22K J 1/10W	K3	R502			RK73GB2A102J	CHIP R 1.0K J 1/10W	K2K3K4
R158,159			RK73GB2A223J	CHIP R 22K J 1/10W	K2	R503			RK73GB2A333J	CHIP R 33K J 1/10W	K2K3K4
R160			RK73GB2A223J	CHIP R 22K J 1/10W	M1K4	R504,505			RK73GB2A473J	CHIP R 47K J 1/10W	K2K3K4
R161-163			RK73GB2A104J	CHIP R 100K J 1/10W		R506			RK73GB2A821J	CHIP R 820 J 1/10W	K2K3K4
R164			RK73GB2A223J	CHIP R 22K J 1/10W		R507			RK73GB2A104J	CHIP R 100K J 1/10W	K2K3K4
R165,166			RK73GB2A222J	CHIP R 2.2K J 1/10W		R508			RK73GB2A101J	CHIP R 100 J 1/10W	K2K3K4
R168			RK73GB2A222J	CHIP R 2.2K J 1/10W		R509			RK73EB2E103J	CHIP R 10K J 1/4W	K2K3K4
R170-173			RK73GB2A223J	CHIP R 22K J 1/10W		R510,511			RK73EB2E101J	CHIP R 100 J 1/4W	
R176			RK73GB2A104J	CHIP R 100K J 1/10W		R512,513			RK73GB2A334J	CHIP R 330K J 1/10W	K2K3K4
R177			RK73GB2A223J	CHIP R 22K J 1/10W		R514			RK73EB2E101J	CHIP R 100 J 1/4W	
R178			RK73GB2A473J	CHIP R 47K J 1/10W		R515			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R181			RK73GB2A473J	CHIP R 47K J 1/10W		R516			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R183			RK73GB2A473J	CHIP R 47K J 1/10W		R517			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R185			RK73GB2A102J	CHIP R 1.0K J 1/10W		R518,519			RK73GB2A103J	CHIP R 10K J 1/10W	K2K3K4
R187			RK73GB2A473J	CHIP R 47K J 1/10W		R520			RK73GB2A1R0J	CHIP R 1.0 J 1/10W	K2K3K4
R200			RK73EB2E473J	CHIP R 47K J 1/4W		R550			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R201			RD14DB2H332J-T	SMALL-RD 3.3K J 1/2W		R551			RK73GB2A471J	CHIP R 470 J 1/10W	
R202			RK73GB2A183J	CHIP R 18K J 1/10W		R552,553			RK73GB2A104J	CHIP R 100K J 1/10W	
R203			RK73GB2A104J	CHIP R 100K J 1/10W		R554			RK73GB2A471J	CHIP R 470 J 1/10W	
R204			RK73GB2A393J	CHIP R 39K J 1/10W		R600,601			RK73GB2A913J	CHIP R 91K J 1/10W	M1K4
R205			RK73GB2A103J	CHIP R 10K J 1/10W		R602			RK73GB2A103J	CHIP R 10K J 1/10W	M1K4
R206			RK73GB2A474J	CHIP R 470K J 1/10W		R603			RK73GB2A470J	CHIP R 47 J 1/10W	M1K4
R207			RK73GB2A103J	CHIP R 10K J 1/10W		R604			RK73GB2A274J	CHIP R 270K J 1/10W	M1K4
R208			RK73EB2E101J	CHIP R 100 J 1/4W		R605			RK73GB2A563J	CHIP R 56K J 1/10W	M1K4
R209			RK73FB2B683J	CHIP R 68K J 1/8W		R606			RK73GB2A752J	CHIP R 7.5K J 1/10W	M1K4
R210			RK73FB2B203J	CHIP R 20K J 1/8W		R607			RK73GB2A470J	CHIP R 47 J 1/10W	M1K4
R211			RK73GB2A103J	CHIP R 10K J 1/10W		R608			RK73GB2A272J	CHIP R 2.7K J 1/10W	M1K4
R212			RK73GB2A223J	CHIP R 22K J 1/10W		R609			RK73GB2A750J	CHIP R 75 J 1/10W	M1K4
R213			RK73GB2A473J	CHIP R 47K J 1/10W		R610			RK73GB2A182J	CHIP R 1.8K J 1/10W	
R214			RK73GB2A104J	CHIP R 100K J 1/10W		R611			RK73GB2A361J	CHIP R 360 J 1/10W	
R215			RK73FB2B561J	CHIP R 560 J 1/8W	M1E1E2	R612			RK73GB2A820J	CHIP R 82 J 1/10W	M1K4
R216			RK73GB2A223J	CHIP R 22K J 1/10W	K2K3	R613			RK73GB2A123J	CHIP R 12K J 1/10W	M1K4
R216			RK73GB2A223J	CHIP R 22K J 1/10W	M1K4	R614			RK73GB2A103J	CHIP R 10K J 1/10W	M1K4
R217			RK73SB3A471J	CHIP R 470 J 1W	K2K3	R615			RK73GB2A223J	CHIP R 22K J 1/10W	
R217			RK73SB3A471J	CHIP R 470 J 1W	M1K4	R616			RK73GB2A103J	CHIP R 10K J 1/10W	M1K4
R218,219			RK73FB2B472J	CHIP R 4.7K J 1/8W		R617			RK73GB2A223J	CHIP R 22K J 1/10W	
R300			RK73EB2E2R2J	CHIP R 2.2 J 1/4W		R618			RK73GB2A820J	CHIP R 82 J 1/10W	M1K4
R301			RK73GB2A103J	CHIP R 10K J 1/10W		R619			RK73GB2A123J	CHIP R 12K J 1/10W	M1K4
R335,336			RK73GB2A101J	CHIP R 100 J 1/10W		R620			RK73GB2A361J	CHIP R 360 J 1/10W	E1E2
R382,383			RK73GB2A102J	CHIP R 1.0K J 1/10W		R620			RK73GB2A361J	CHIP R 360 J 1/10W	K2K3M1
R404			RK73GB2A223J	CHIP R 22K J 1/10W		R620,621			RK73GB2A361J	CHIP R 360 J 1/10W	K4
R405,406			RK73GB2A471J	CHIP R 470 J 1/10W		R622			RK73GB2A820J	CHIP R 82 J 1/10W	K4

E1 : KDC-W7031Y E2 : KDC-W7031 K2 : KDC-MP728
 K3 : KDC-MP628 K4 : KDC-MP7028 M1 : KDC-MP8029
 (E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-3xxx-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R623			RK73GB2A123J	CHIP R 12K J 1/10W	K4	R772			RK73GB2A221J	CHIP R 220 J 1/10W	
R624			RK73GB2A103J	CHIP R 10K J 1/10W	K4	R800			RK73GB2A391J	CHIP R 390 J 1/10W	
R625			RK73GB2A223J	CHIP R 22K J 1/10W	K4	R801			RK73GB2A242J	CHIP R 2.4K J 1/10W	
R626			RK73GB2A103J	CHIP R 10K J 1/10W	K4	R803			RK73GH2A512D	CHIP R 5.1K D 1/10W	
R627			RK73GB2A223J	CHIP R 22K J 1/10W	K4	R804			RK73GH2A472D	CHIP R 4.7K D 1/10W	
R628			RK73GB2A820J	CHIP R 82 J 1/10W	K4	R805,806			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R629			RK73GB2A123J	CHIP R 12K J 1/10W	K4	R807			RK73GB2A103J	CHIP R 10K J 1/10W	
R630,631			RK73GB2A361J	CHIP R 360 J 1/10W	K4	R808			RK73GB2A113J	CHIP R 11K J 1/10W	
R631			RK73GB2A361J	CHIP R 360 J 1/10W	E1E2	R809			RK73GB2A101J	CHIP R 100 J 1/10W	
R631			RK73GB2A361J	CHIP R 360 J 1/10W	K2K3M1	R810			RK73FB2B152J	CHIP R 1.5K J 1/8W	
R632			RK73GB2A820J	CHIP R 82 J 1/10W	M1K4	R811			RK73GB2A104J	CHIP R 100K J 1/10W	
R633			RK73GB2A123J	CHIP R 12K J 1/10W	M1K4	R812			RK73FB2B4R7J	CHIP R 4.7 J 1/8W	
R634			RK73GB2A103J	CHIP R 10K J 1/10W	M1K4	R813			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R635			RK73GB2A223J	CHIP R 22K J 1/10W		R814,815			RK73GB2A101J	CHIP R 100 J 1/10W	
R636			RK73GB2A103J	CHIP R 10K J 1/10W	M1K4	R817			RK73GB2A100J	CHIP R 10 J 1/10W	
R637			RK73GB2A223J	CHIP R 22K J 1/10W		R818			RK73GB2A8R2J	CHIP R 8.2 J 1/10W	
R638			RK73GB2A820J	CHIP R 82 J 1/10W	M1K4	R819-822	*		RK73GB2A9R1J	CHIP R 9.1 J 1/10W	
R639			RK73GB2A123J	CHIP R 12K J 1/10W	M1K4	R823			RK73FB2B1R0J	CHIP R 1.0 J 1/8W	
R640			RK73GB2A361J	CHIP R 360 J 1/10W		W201			R92-1252-05	CHIP R 0 OHM J 1/16W	E1E2
R641			RK73EB2E100J	CHIP R 10 J 1/4W	K2K3	W603,604			R92-1252-05	CHIP R 0 OHM J 1/16W	E2
R641			RK73EB2E100J	CHIP R 10 J 1/4W	M1K4	W603,604			R92-1252-05	CHIP R 0 OHM J 1/16W	K2K3E1
R642			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	K2K3	W607,608			R92-1252-05	CHIP R 0 OHM J 1/16W	E2
R642			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	M1K4	W607,608			R92-1252-05	CHIP R 0 OHM J 1/16W	K2K3E1
R643			RK73EB2E100J	CHIP R 10 J 1/4W	K2K3	W613-616			R92-1252-05	CHIP R 0 OHM J 1/16W	E2
R643			RK73EB2E100J	CHIP R 10 J 1/4W	M1K4	W613-616			R92-1252-05	CHIP R 0 OHM J 1/16W	K2K3E1
R644			RK73GB2A102J	CHIP R 1.0K J 1/10W	K2K3	W751			R92-1252-05	CHIP R 0 OHM J 1/16W	
R644			RK73GB2A102J	CHIP R 1.0K J 1/10W	M1K4	S1,2			S68-0886-05	PUSH SWITCH	
R655-660			RK73GB2A104J	CHIP R 100K J 1/10W	K4	D1			S2V60*A	DIODE	
R655,656			RK73GB2A104J	CHIP R 100K J 1/10W	M1	D20			RB160L-40	DIODE	
R659,660			RK73GB2A104J	CHIP R 100K J 1/10W	M1	D21			UDZS5.6B	ZENER DIODE	
R700			RK73EB2E472J	CHIP R 4.7K J 1/4W		D30			HZU9.1(B1)-E	ZENER DIODE	
R701			RK73EB2E101J	CHIP R 100 J 1/4W		D31			UDZS8.2B	ZENER DIODE	
R702			RK73EB2E472J	CHIP R 4.7K J 1/4W		D40			UDZS5.6B	ZENER DIODE	
R703-707			RK73EB2E101J	CHIP R 100 J 1/4W		D41			HZU11(B1)-E	ZENER DIODE	
R708			RK73EB2E100J	CHIP R 10 J 1/4W		D41	*		02DZ11F-Y	ZENER DIODE	
R709			RK73EB2E4R7J	CHIP R 4.7 J 1/4W		D50	*		HZU16(B1)-E	ZENER DIODE	
R710			RK73EB2E100J	CHIP R 10 J 1/4W		D60,61			SFPB-54VNF	DIODE	
R711			RK73GB2A102J	CHIP R 1.0K J 1/10W		D80-82			RB060L-40	DIODE	
R712			RK73EB2E102J	CHIP R 1.0K J 1/4W	K2K3	D101			DA227	DIODE	
R712			RK73EB2E102J	CHIP R 1.0K J 1/4W	K4E1E2	D102-104			DAP222	DIODE	
R713-715			RK73EB2E471J	CHIP R 470 J 1/4W	K2K3	D102-104	*		KDS120E-P	DIODE	
R713-715			RK73EB2E471J	CHIP R 470 J 1/4W	K4E1E2	D200,201			DAP202U	DIODE	
R750			RK73GB2A683J	CHIP R 68K J 1/10W		D200,201			KDS120-P	DIODE	
R752			RK73GB2A102J	CHIP R 1.0K J 1/10W		D200,201			MC2846	DIODE	
R753			RK73GB2A473J	CHIP R 47K J 1/10W		D202			UDZS6.2B	ZENER DIODE	
R755-758			RK73GB2A471J	CHIP R 470 J 1/10W		D202			02DZ6.2F-Y	ZENER DIODE	
R759-762			RK73GB2A103J	CHIP R 10K J 1/10W		D203			UDZS6.8B	ZENER DIODE	
R763			RK73GB2A100J	CHIP R 10 J 1/10W		D204			DAP202U	DIODE	
R764			RK73GB2A103J	CHIP R 10K J 1/10W		D204			KDS120-P	DIODE	
R765			RK73GB2A432J	CHIP R 4.3K J 1/10W		D204			MC2846	DIODE	
R766			RK73GB2A431J	CHIP R 430 J 1/10W		D205			UDZS6.8B	ZENER DIODE	
R767			RK73GB2A390J	CHIP R 39 J 1/10W		D206			UDZS4.7B	ZENER DIODE	
R768			RK73GB2A223J	CHIP R 22K J 1/10W		D207			UDZS5.6B	ZENER DIODE	M1E1E2
R770			RK73GB2A133J	CHIP R 13K J 1/10W							
R771			RK73GB2A223J	CHIP R 22K J 1/10W							

E1 : KDC-W7031Y E2 : KDC-W7031 K2 : KDC-MP728
K3 : KDC-MP628 K4 : KDC-MP7028 M1 : KDC-MP8029

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-3xxx-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
D207			02DZ5.6F-Y	ZENER DIODE	M1E1E2	Q23			KRC403-P	DIGITAL TRANSISTOR	
D208-213			D1F60-5063	DIODE		Q23			RT1N241M	DIGITAL TRANSISTOR	
D208-213			1SR154-400	DIODE		Q30			2SB1565	TRANSISTOR	
D401			IMSA-6801-E	SURGE ABSORBER		Q31			2SB1184	TRANSISTOR	
D500			DA204K	DIODE		Q32,33			2SC4081	TRANSISTOR	
D501			STZ6.2N	ZENER DIODE		Q40			2SB1565	TRANSISTOR	
D502			DA204K	DIODE		Q41			2SB1443	TRANSISTOR	
D503			STZ6.2N	ZENER DIODE		Q42			UMD12N	TRANSISTOR	
D504			DA204U	DIODE	K2K3K4	Q43			UMC2N	TRANSISTOR	
D505			DAP202U	DIODE		Q44			2SC4081	TRANSISTOR	
D505			KDS120-P	DIODE		Q45			2SD2351(W)	TRANSISTOR	
D505			MC2846	DIODE		Q50	*		2SB1449(R)-E	TRANSISTOR	
D506			STZ6.2N	ZENER DIODE		Q51			UMC2N	TRANSISTOR	
D600			UDZS5.6B	ZENER DIODE	M1K4	Q52			2SC4081	TRANSISTOR	
D601			UDZS11B	ZENER DIODE	M1K4	Q60			DTC143TUA	DIGITAL TRANSISTOR	
D608,609			STZ6.8N	ZENER DIODE	K2K3	Q60			KRC410-P	DIGITAL TRANSISTOR	
D608,609			STZ6.8N	ZENER DIODE	M1K4	Q60			RT1N430M	DIGITAL TRANSISTOR	
D700-702			STZ6.2N	ZENER DIODE		Q61			UMG2N	TRANSISTOR	
D703,704			STZ6.8N	ZENER DIODE		Q62			DTA143TUA	DIGITAL TRANSISTOR	
D705,706			STZ6.2N	ZENER DIODE	E1E2	Q63,64	*		2SJ484-E	FET	
D750-753			D1F60-5063	DIODE		Q80			2SB1188(R)	TRANSISTOR	
D750-753			1SR154-400	DIODE		Q81			2SC4081	TRANSISTOR	
D754,755			DAP222	DIODE		Q91			2SD2351(W)	TRANSISTOR	
D754,755	*		KDS120E-P	DIODE		Q100			2SA1576A	TRANSISTOR	
D756-759			D1F60-5063	DIODE		Q101			DTC144EUA	DIGITAL TRANSISTOR	
D800			1SR154-400	DIODE		Q101			KRC404-P	DIGITAL TRANSISTOR	
D801			UDZS6.8B	ZENER DIODE		Q101			RT1N441M	DIGITAL TRANSISTOR	
D802			DA227	DIODE		Q200,201			DTA124EUA	DIGITAL TRANSISTOR	
IC10			UDZS16B	ZENER DIODE		Q200,201			KRA303-P	DIGITAL TRANSISTOR	
IC10			M5237ML-CF0J	ANALOGUE IC		Q200,201			RT1P241M	DIGITAL TRANSISTOR	
IC60	*		FA3687V	ANALOGUE IC		Q202			2SC4081	TRANSISTOR	
IC80	*		LT3467A	ANALOGUE IC		Q203			2SA1576A	TRANSISTOR	
IC100			S-80836CNNB-J	MOS-IC		Q204,205			2SC4081	TRANSISTOR	
IC102	*		30625MGP34GP	MICROCONTROLLER IC		Q206			DTA123JK	DIGITAL TRANSISTOR	M1E1E2
IC103			TC7W02FU-F	MOS-IC		Q207			DTC144EUA	DIGITAL TRANSISTOR	
IC104			BR24L04FV-W	ROM IC		Q207			KRC404-P	DIGITAL TRANSISTOR	
IC200	*		TPD1018F-F	ANALOGUE IC		Q207			RT1N441M	DIGITAL TRANSISTOR	
IC300			E-TDA7415	ANALOGUE IC		Q208			2SB1188(Q,R)	TRANSISTOR	K2K3
IC400			E-TDA7479AD	ANALOGUE IC	E1E2	Q208			2SB1188(Q,R)	TRANSISTOR	M1K4
IC450			LB1930M-E	ANALOGUE IC		Q209			DTC114YUA	DIGITAL TRANSISTOR	K2K3
IC451	*		MMA6261QR2	ANALOGUE IC	E1E2	Q209			DTC114YUA	DIGITAL TRANSISTOR	M1K4
IC451	*		MMA6261QR2	ANALOGUE IC	K2K4	Q209			KRC407-P	DIGITAL TRANSISTOR	K2K3
IC500	*		RC4580IDR	ANALOGUE IC	K2K3K4	Q209			KRC407-P	DIGITAL TRANSISTOR	M1K4
IC600	*		ICL7660SIBAZ	ANALOGUE IC	M1K4	Q209			RT1N144M	DIGITAL TRANSISTOR	K2K3
IC601			NJM4565V-ZB	ANALOGUE IC	M1	Q209			RT1N144M	DIGITAL TRANSISTOR	M1K4
IC601-603			NJM4565V-ZB	ANALOGUE IC	K4	Q402			2SB1689	TRANSISTOR	
IC603			NJM4565V-ZB	ANALOGUE IC	M1	Q403			DTC124EUA	DIGITAL TRANSISTOR	
IC750			E-TDA7560A	ANALOGUE IC		Q403			KRC403-P	DIGITAL TRANSISTOR	
IC800	*		RC4580IDR	ANALOGUE IC		Q403			RT1N241M	DIGITAL TRANSISTOR	
Q10			2SB1565	TRANSISTOR		Q450			DTC114YUA	DIGITAL TRANSISTOR	
Q11,12			UMC2N	TRANSISTOR		Q450			KRC407-P	DIGITAL TRANSISTOR	
Q20			2SB1565	TRANSISTOR		Q450			RT1N144M	DIGITAL TRANSISTOR	
Q21			2SD2351(W)	TRANSISTOR		Q500			2SC4617	TRANSISTOR	K2K3K4
Q22			2SA1577	TRANSISTOR		Q600			2SC4617	TRANSISTOR	M1K4
Q23			DTC124EUA	DIGITAL TRANSISTOR		Q601			2SA1774	TRANSISTOR	M1K4

E1 : KDC-W7031Y E2 : KDC-W7031 K2 : KDC-MP728
K3 : KDC-MP628 K4 : KDC-MP7028 M1 : KDC-MP8029
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-3xxx-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
Q602			2SC4617	TRANSISTOR	M1K4
Q603			2SA1576A	TRANSISTOR	M1K4
Q604			2SC4081	TRANSISTOR	M1K4
Q605			2SA1576A	TRANSISTOR	M1K4
Q606			2SC4081	TRANSISTOR	M1K4
Q607			2SB1443	TRANSISTOR	M1K4
Q608-613			DTC143TUA	DIGITAL TRANSISTOR	K4
Q608-613			KRC410-P	DIGITAL TRANSISTOR	K4
Q608-613			RT1N430M	DIGITAL TRANSISTOR	K4
Q608,609			DTC143TUA	DIGITAL TRANSISTOR	E1E2
Q608,609			DTC143TUA	DIGITAL TRANSISTOR	K2K3M1
Q608,609			KRC410-P	DIGITAL TRANSISTOR	E1E2
Q608,609			KRC410-P	DIGITAL TRANSISTOR	K2K3M1
Q608,609			RT1N430M	DIGITAL TRANSISTOR	E1E2
Q608,609			RT1N430M	DIGITAL TRANSISTOR	K2K3M1
Q612,613			DTC143TUA	DIGITAL TRANSISTOR	E1E2
Q612,613			DTC143TUA	DIGITAL TRANSISTOR	K2K3M1
Q612,613			KRC410-P	DIGITAL TRANSISTOR	E1E2
Q612,613			KRC410-P	DIGITAL TRANSISTOR	K2K3M1
Q612,613			RT1N430M	DIGITAL TRANSISTOR	E1E2
Q612,613			RT1N430M	DIGITAL TRANSISTOR	K2K3M1
Q800			DTA124EUA	DIGITAL TRANSISTOR	K2K3M1
Q800			KRA303-P	DIGITAL TRANSISTOR	E1E2
Q800			RT1P241M	DIGITAL TRANSISTOR	K2K3M1
Q801			2SA1774	TRANSISTOR	E1E2
Q802			2SC2873-F	TRANSISTOR	K2K3M1
TH750			PRF21BE471QB2	POSITIVE RESISTOR	
A1	2D		X86-3840-11	FRONT-END UNIT	K2K3
A1	2D		X86-3840-11	FRONT-END UNIT	M1K4
A1	2D	*	X86-3842-70	FRONT-END UNIT	E1
A1	2D	*	X86-3842-71	FRONT-END UNIT	E2

MECHANISM ASSY (X92-508x-xx) 0-00 : K2K3K4M1, 0-04 : E1, 0-05 : E2

2	1B		A10-4827-32	CHASSIS	
5	1B		D10-4576-83	ARM ASSY	
8	2A		D10-4579-23	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		D10-4587-52	SLIDER	
17	2B		D10-4588-13	SLIDER	
18	2B		D10-4595-04	ARM	
19	2B		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	2B		D13-2158-04	GEAR	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
30	2B		D13-2168-04	GEAR	
31	3B		D13-2171-04	GEAR	
32	1B		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	
DFPC1	3A		J84-0141-05	FLEXIBLE PRINTED WIRING BOARD	
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 MACHINE SCREW	
J	1B		N09-6108-05	MACHINE SCREW (M2*3.5)	
K	3B		N09-6155-05	SEMS (TAPTITE SCREW) (PT2X6)	
DM1	3B		T42-1066-04	DC MOTOR (SPINDLE)	
DM2	2B		T42-1067-04	DC MOTOR (LOADING)	
DPU1	2B		X93-2010-00	OPTICAL PICKUP ASSY	

E1 : KDC-W7031Y E2 : KDC-W7031 K2 : KDC-MP728
K3 : KDC-MP628 K4 : KDC-MP7028 M1 : KDC-MP8029

48 (E : Europe K : North America M : Other Areas W : Without Europe)

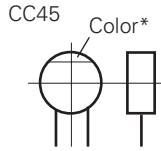
△ Indicates safety critical components.

PARTS LIST

CAPACITORS

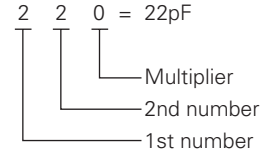
CC 45 TH 1H 220 J
1 2 3 4 5 6

- 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

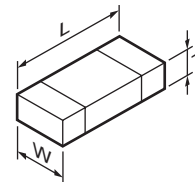
(EX) CC 73 F SL 1H 000 J
1 2 3 4 5 6 7
(Chip) (CH, RH, UJ, SL)

(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		

SPECIFICATIONS

FM	Spindle Speed (Audio files) 1000~400rpm (CLV, 2 times)
Frequency Range (Frequency step)	Wow & Flutter Below Measurable Limit
KDC-MP628/MP728/MP7028	Frequency Response 10Hz~20kHz (±1dB)
..... 87.9MHz~107.9MHz (200kHz)	Total Harmonic Distortion 0.01% (1kHz)
KDC-MP8029 87.5MHz~108.0MHz (50kHz)	S/N Ratio 105dB (1kHz)
..... 87.9MHz~107.9MHz (200kHz)	Dynamic Range 93dB
KDC-W7031/W7031Y 87.5MHz~108.0MHz (50kHz)	Channel Separation 96dB
Channel Space Selection	MP3 Decode Compliant with MPEG-1/2 Audio Layer-3
KDC-MP628/MP728/MP7028/MP8029 50kHz/200kHz	WMA Decode Compliant with Windows Media Audio
Usable Sensitivity (S/N : 30dB)	AAC Decode AAC-LC “.m4a” files
KDC-MP628/MP728/MP7028/MP8029	
..... 9.3dBf (0.8µV/75Ω)	Preout Level / Load
Usable Sensitivity (S/N : 26dB)	KDC-MP628/MP728/W7031/W7031Y
KDC-W7031/W7031Y 0.7µV/75Ω 2500mV/10kΩ (CD/CD-CH)
Quieting Sensitivity (S/N : 50dB)	KDC-MP7028 4000mV/10kΩ (CD/CD-CH)
KDC-MP628/MP728/MP7028/MP8029	KDC-MP8029 5000mV/10kΩ (CD/CD-CH)
..... 15.2dBf (1.6µV/75Ω)	Preout Impedance
Quieting Sensitivity (S/N : 46dB)	KDC-MP628/MP728/W7031/W7031Y ≤600Ω
KDC-W7031/W7031Y 1.6µV/75Ω	KDC-MP7028/MP8029 ≤80Ω
Frequency Response (±3.0dB) 30Hz~15kHz	
S/N	AUX input (KDC-MP628/MP728/MP7028/MP8029)
KDC-MP628/MP728/MP7028/MP8029 70dB (MONO)	Frequency Response 20Hz~20kHz (±1dB)
KDC-W7031/W7031Y 65dB (MONO)	Input Maximum Voltage 1200mV
Selectivity ≥80dB (±400kHz)	Input Impedance 100kΩ
Stereo Separation	Amplifier
KDC-MP628/MP728/MP7028/MP8029 40dB (1kHz)	Maximum Power 50W x 4
KDC-W7031/W7031Y 35dB (1kHz)	Full Bandwidth Power (at less than 1% THD)
	KDC-MP628/MP728/MP7028/MP8029 22W x 4
AM (MW)	Power (DIN45324, +B=14.4V)
Frequency Range (Frequency step)	KDC-W7031/W7031Y 30W x 4
KDC-MP628/MP728/MP7028 .. 530kHz~1700kHz (10kHz)	Tone
KDC-MP8029 531kHz~1611kHz (9kHz)	Bass 100Hz±10dB
..... 530kHz~1700kHz (10kHz)	Middle 1kHz±10dB
KDC-W7031/W7031Y 531kHz~1611kHz (9kHz)	Treble 10kHz±10dB
Channel Space Selection	General
KDC-MP628/MP728/MP7028/MP8029 9kHz/10kHz	Operating Voltage (11~16V allowable) 14.4V
Usable Sensitivity (S/N : 20dB)	Current Consumption 10A
KDC-MP628/MP728/MP7028/MP8029 28dBµ (25µV)	Installation Size (W x H x D)
KDC-W7031/W7031Y 25µV 182 x 53 x 155mm (7-3/16 x 2-1/16 x 6-1/10 inch)
LW (KDC-W7031/W7031Y)	Weight 1.50kg (3.31lbs)
Frequency Range 153kHz~281kHz	
Usable Sensitivity (S/N : 20dB) 45µV	
CD	
Laser Diode GaAlAs	KENWOOD follows a policy of continuous advancements
Digital Filter (D/A) 8 Times Over Sampling	in development.
D/A Converter 1Bit	For this reason specifications may be changed without notice.

