

KDC-MP5029

KDC-W5031/W5031Y

KDC-W531Y

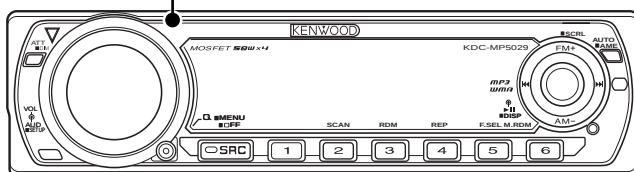
SERVICE MANUAL

KENWOOD

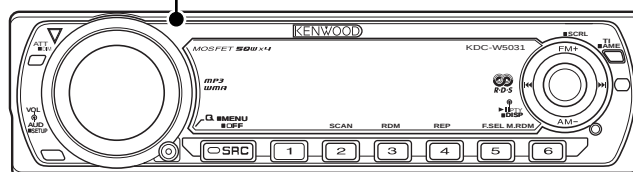
Kenwood Corporation

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B53-0247-00 (N) 1233

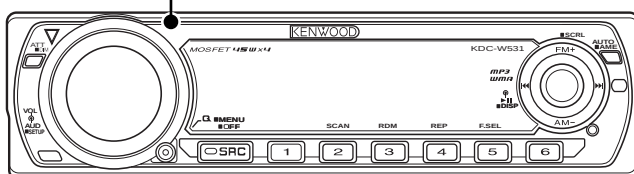
PANEL ASSY
KDC-MP5029 (A64-3484-12)



PANEL ASSY
KDC-W5031/Y (A64-3485-02)



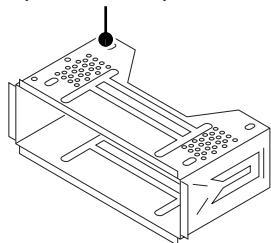
PANEL ASSY
KDC-W531Y (A64-3488-02)



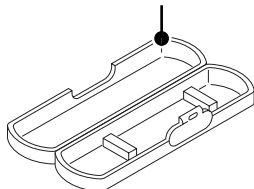
SPARE TDF PANEL

MAIN UNIT NAME	TDF PARTS No.	TDF NAME
KDC-MP5029	Y33-2150-64	TDF-MP5029
KDC-W5031/Y	Y33-2150-65	TDF-W5031
KDC-W531Y	Y33-2150-66	TDF-W531Y

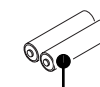
MOUNTING HARDWARE ASSY
(J22-0011-03)



PLASTIC CABINET ASSY
(A02-2743-03)

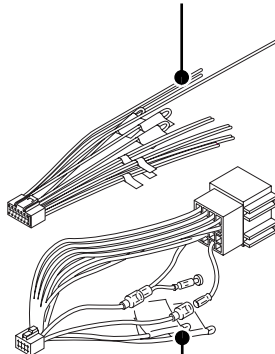


* REMOTE CONTROLLER ASSY (RC-517)
(A70-2069-05)

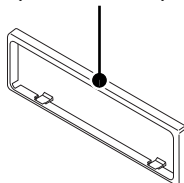


BATTERY
(Not supplied)

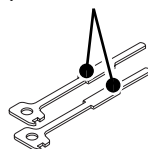
* DC CORD
(E30-6415-15)



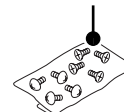
ESCUTCHEON
(B07-3122-01)



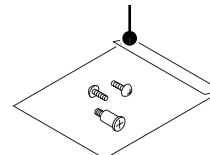
LEVER
(D10-4589-04) x2



* SCREW SET
(N99-1757-05)



SCREW SET
(N99-1763-05)



* DC CORD
(E30-6413-05)

* ANTENNA ADAPTOR
(T90-0523-05)



MOUNTING HARDWARE (L)
(J22-0258-04)



MOUNTING HARDWARE (R)
(J22-0259-04)



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



COMPONENTS DESCRIPTION

● ELECTRIC UNIT (X34-339x-xx)

Ref. No.	Application / Function	Operation / Condition
IC1	SYSTEM μ -COM	System control.
IC3	POWER SUPPLY	DC5V x 1, 7.8V x 1, 8.0V x 1, 10.2V, P-CON, P-ANT output.
IC4	POWER IC	Signal amplifier.
IC6	MUTE LOGIC	Mute action control.
IC7	RDS DECODER	RDS decode.
IC8	RESET IC	"L" when detection voltage is below 3.6V.
IC9	MECHA+B	Output voltage 5V for MP3/WMA mecha.
IC10	E-VOL & TUNER	E-vol, tuner, stereo decode.
IC11	E2PROM	Save & load for tuner adjustment data.
IC15	LED & VFD+B	Output voltage 11.25V for LED and VFD.
Q51	SERGE DET	"ON" when the base goes "H".
Q52	BU DET	"ON" when the base goes "H" during BU is applied.
Q53	ACC DET	"ON" when the base goes "H" during ACC is applied.
Q54	BU5V SW	"ON" when the base goes "L".
Q71	SERVO+B CONTROL SW	"ON" when the base goes "H".
Q72	SERVO+B AVR	Output voltage is 7.5V.
Q73	SERVO+B AVR	Output voltage is 7.5V.
Q74	IC3 CONTROL SW	"ON" when the base goes "H". Output voltage is 10.2V.
Q91	IC9 CONTROL SW	"ON" when the base goes "H".
Q151	PANEL 5V SW	"ON" when the base goes "L".
Q152	FL+B SW	"ON" when the base goes "L".
Q153	FL+B SW	"ON" when the base goes "H".
Q156	EJECT ILLUMI SW	"ON" when the base goes "H".
Q252	IC4 STBY SW	"ON" when the base goes "L".
Q330	Q351/Q352 MUTE DRIVER	"ON" when the base goes "L".
Q351	Lch PREOUT MUTE SW	Audio preout is muted when the base goes "H".
Q352	Rch PREOUT MUTE SW	Audio preout is muted when the base goes "H".
Q501	AM RF AMPLIFIER	Adjusts for Gain.

● CD PLAYER UNIT (X32-5500-00)

Ref. No.	Application / Function	Operation / Condition
IC1	MECHANISM CONTROL MICROPROCESSOR	Focusing, tracking, sled and spindle servo processing. Automatic adjustment (Focusing, tracking, gain, offset and balance) operations. Digital signal processing (DSP, PLL, sub-codes, CIRC error correction, audio data interpolation) operations, and microcomputer function.
IC2	RF AMP/SERVO CD SIGNAL PROCESSOR	Generation of RF signal based on the signals from the APC circuit and pickup, and generation of servo error (Focusing error and tracking error) signals. Detection of dropout, anti-shock, track crossing and off-track conditions, included gain control function during CD-RW.

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition
IC3	MP3/WMA DECODER	
IC4	4ch BTL DRIVER	Focusing coil, tracking coil, spindle motor and sled motor driver, disc loading and eject operation.
IC5	SW 3.3V AVR	
IC6	BU 3.3V AVR	3.3V power supply for back-up.
IC7	BU 2.5V AVR	2.5V power supply for back-up.
IC8	SELECTOR (SERIAL DATA)	Serial audio data switch.
IC9	DAC 3.3V AVR	3.3V power supply for IC2.
Q1	LEVEL SHIFT	3.3V to 5.0V.
Q3~7	LEVEL SHIFT	3.3V to 5.0V.
Q8	AUTOMATIC POWER CONTROL	LD driver.
Q9,10	SWITCH	Switch for anticipation sub-beam delay.

● SWITCH UNIT (X16-291x-xx)

Ref. No.	Application / Function	Operation / Condition
IC1	VFD DRIVER	
IC2	REMOTE CONTROL	
Q4	SW 5V	The power supply of IC2 turns on when Q4's base goes "L".
Q10	RED LED SW	RED LED turns on when Q10's base goes "H".
Q11	GREEN LED SW	GREEN LED turns on when Q11's base goes "H".

● DAUGHTER UNIT (X89-2690-10)

Ref. No.	Application / Function	Operation / Condition
Q221, 222	2-PREOUT MUTE	"ON" when the base goes "H".
Q225	2-PREOUT MUTE	"ON" when the base goes "H".

MICROCOMPUTER'S TERMINAL DESCRIPTION

● SYSTEM μ -COM : IC1 on X34- (ELECTRIC UNIT)

Pin No.	Pin Name	I/O	Application	Processing Operation
1	DCERR	I	DC offset detection input	
2	LINE MUTE	I	Phone detection	TEL MUTE : Below 1V
3	ROTARY CW	I	Rotary encoder input	
4	AVSS	-		
5	TUN TYPE1	I	E-VOL setting switch	Refer to "TUN TYPE" on the TRUTH TABLE
6	TUN TYPE2	I	E-VOL setting switch	Refer to "TUN TYPE" on the TRUTH TABLE
7	AVREF1	-		
8	VFD DATAF	I	Data input from FVD driver	
9	VFD DATAS	O	Data output to FVD driver	
10	VFD CLK	O	Clock output to FVD driver	
11	$\overline{\text{VFD RST}}$	O	Reset output to FVD driver	Display OFF, Key reset, Panel opened : L Display ON, Key scan : H
12	VFD CE	O	Chip enable output to VFD driver	
13	ROTARY CCW	I	Rotary encoder input	
14	$\overline{\text{FLIP DET}}$	I	Panel detection	Panel released : H, Panel ON : L
15	PWIC BEEP	O	Beep output	
16	LX DATA S	I	Data from slave unit	
17	LX DATA M	O	Data to slave unit	
18	LX CLK	I/O	LX-BUS clock	
19	RDS AFSL	O	Tuner RDS mute output	Refer to "RDS AFSL" on the TRUTH TABLE
20	$\overline{\text{TUN ADJ}}$	I	For adjusting IC10	Adjustment=H, PS1-1, 2=L, PS1-3=Hi-Z, PS2-1, 2=Hi-Z TUN DATA, CLK=Hi-Z
21	TUN SD	I	Tuner search stop input	H : Station exists, L : Station does not exist
22	LX RST	O	Hard reset to slave unit	H : Reset, L : Normal condition
23	LX CON	O	Start-up request to slave unit	H : Slave unit ON, L : Slave unit OFF
24	LX REQ M	O	Communication request to slave unit	
25	AUD SDA	I/O	Tuner + volume I2C data input and output	
26	AUD SCL	I/O	Tuner + volume I2C clock input and output	
27	PWIC STBY	O	Power IC standby output	Power IC ON : H, Power IC OFF : L
28	VOL MUTE	O	E-VOL mute output	L : Mute OFF, Hi-Z : Mute ON
29	$\overline{\text{PWIC MUTE}}$	O	Power IC mute output	Power OFF : L, Standby : L, Tel mute : L
30	RDS AFSM	-		
31	RESET2	O	Mute for reset	Output L
32	RDS DATA	I	RDS decoder data input	
33	VSS1	-		
34	RDS QUAL	I	RDS decoder QUAL input	
35	$\overline{\text{ACC DET}}$	I	ACC detection	ACC exists : L, ACC does not exist : H
36	$\overline{\text{BU DET}}$	I	Momentary power-down detection	BU exists : L, BU does not exist (Momentary power-down) : H
37	PON	I/O	SW5V/SW14V control	Power ON : L, Power OFF : Hi-Z
38,39	PS2-2, PS2-1	O	Power supply control output	Refer to "POWER IC CONTROL" on the TRUTH TABLE

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Processing Operation
40~42	PS1-1~PS1-3	O	Power supply control output	Refer to "POWER IC CONTROL" on the TRUTH TABLE
43	KEY CDEJ	I	Eject key	L : Eject
44	PON CD	I/O	Power supply control for MP3/WMA	ON : L, OFF : Hi-Z
45	CD MUTE	I	CD mute request	L : Mute request
46	CD MSTOP	O	CD mecha μ -com stop	H : mecha μ -com operates, L : mecha μ -com is stopped
47	CD LOE LIM SW	I	CD detection (chucking switch)	H : Loading is finished, L : Disc does not exist
48	CD LOEJ	I/O	CD motor control	Refer to "CD MECHA CONTROL OPERATION" on the TRUTH TABLE
49	CD MOTOR	O	CD motor control	Refer to "CD MECHA CONTROL OPERATION" on the TRUTH TABLE
50	CD DISC8 SW	-		
51	CD MRST	O	CD mecha μ -com reset	H : Normal condition, L : Reset
52	CD SCL	I/O	CD mecha I2C clock output	
53	CD DISC12 SW	I	12cm CD detection	
54	CD LOS SW	I	CD loading detection	
55	CD SDA	I/O	CD mecha I2C data input and output	
56	OEM DISP CE	I/O	External display chip enable	External display
57	OEM DISP CLK	I/O	External display clock	External display
58	OEM DISP DATA	I/O	External display chip data	External display
59	EJECT ILLUMI	O	Eject illumination control	LED ON : H, LED OFF : L LED ON when FLIP-DOWN DET is H and PANEL DET is L. LED blinks when FLIP-DOWN DET is H and PANEL DET is L.
60	RESET	I		
61	PANEL DET	I	Panel detection	Panel OFF : L, Panel ON : H
62	PON FL	O	VFD power supply ON	VFD ON : H, VFD OFF : L Flip-down detection H : L, Flip-down detection L : H
63	KEY REQ	I	Communication request from VFD driver	L : Key input
64	RDS CLK	I	RDS decoder clock input	
65	REMOTE	I	Remote control input	
66	LX REQ S	I	Communication request from slave unit	
67	VSS0	-		
68	VDD1	-		
69,70	X2, X1	-		
71	TEST	-		
72,73	XT2, XT1	-		
74	VDD0	-		
75	AVDD	-		
76~78	TYPE 3~TYPE 1	I	Destination switch	
79	RDS NOISE	I	Tuner quality (Noise) input	
80	TUN SMETER	I	Tuner S-meter input	

MICROCOMPUTER'S TERMINAL DESCRIPTION

● TRUTH TABLE

TUN TYPE

	TYPE 1	TYPE 2
General models commercially-designated as pure KENWOOD brand (Initial value) Initial value setting	L	L
General models commercially-designated as pure KENWOOD brand (CRSC is changed) Multi-Path Band-Path Gain = 12dB, Multi-Path Charge Current = 0.4μA, De-Emphasis = 75μS	H	L

RDS AFSL (AF search)

High	Normal condition communication (IC10 side : High) (Quality time constant long / Stereo Decoder PLL : Not hold)
Low	AF search (IC10 side : MID) (Quality time constant short / Stereo Decoder PLL : Hold)

POWER SUPPLY IC (IC3) CONTROL

SW1 (Pin No. 10)

PS1-1	PS1-2	PS1-3	AUDIO	P-CON	P-ANT
L	L	L	OFF	OFF	OFF
H	L	L	ON	OFF	OFF
H	H	L	ON	ON	OFF
H	H	H	ON	ON	ON

SW2 (Pin No. 11)

PS2-1	PS2-2	ILLUMI	FM+B	AM+B
L	L	OFF	OFF	OFF
H	L	ON	ON	OFF
H	H	ON	ON	ON

CD MECHA CONTROL OPERATION

CD LOEJ	CD MOTOR	CD MECHA OPERATION
L	H	Load
H	H	Eject
Hi-Z	L	Stop
Hi-Z	H	Brake

MICROCOMPUTER'S TERMINAL DESCRIPTION

● CD MECHANISM μ -COM : IC1 on X32- (CD PLAYER UNIT)

Pin No.	Pin Name	I/O	Application	Processing Operation
1	VREFL	-	Reference power supply input terminal for ADC (L).	GND
2	AVSS	-	GND terminal for ADC.	GND
3	AVCC	-	Power supply terminal for ADC.	Back-up 3.3V
4	NC	-		
5	$\overline{20RST}$	O	Reset control (Decoder).	L : Reset, H : Normal condition
6	20ACK	I	Acknowledge signal input (Decoder).	
7	20STBY	O	Standby control (Decoder).	H : Standby, L : Normal condition
8,9	NC	-		
10	20INT	I	Interrupt signal input (Decoder).	
11	FOGUP	I	Focus gain-up interrupt.	H : Focus gain-up, L : Normal condition
12	LZM	I	0 bit mute detection (Lch).	L : MUTE OFF, H : MUTE ON
13	RZM	I	0 bit mute detection (Rch).	L : MUTE OFF, H : MUTE ON
14,15	NC	-		
16	$\overline{20CS}$	O	Chip select signal output (Decoder).	
17	$\overline{20LP}$	O	Latch pulse signal output (Decoder).	
18	20TXD0	I/O	Data output for serial data (Decoder).	Input condition is kept except in output condition.
19	20RXD0	I	Data input for serial data (Decoder).	
20	20SCLK0	O	Clock output for serial data (Decoder).	
21	DSPTXD1	O	Data output for serial data (DSP).	
22	DSPRXD1	I	Data input for serial data (DSP).	
23	DSPSCLK1	O	Clock output for serial data (DSP).	
24	AM0	-	ROM mode selection terminal.	H : Normal condition, L : External ROM mode
25	DVCC	-	Back-up 3.3V.	
26	X2	O	Resonator terminal.	16MHz
27	DVSS	-	GND.	
28	X1	I	Resonator terminal.	16MHz
29	AM1	I	"H" condition is fixed.	Back-up 3.3V
30	$\overline{RESET}$	I	Reset detection.	L : Reset, H : Normal condition
31~34	NC	-		
35	$\overline{DSPSTB}$	O	Data strobe signal output (DSP).	
36	DSPA0	O	Command/Parameter identification signal output (DSP).	H : Parameter data output, L : Command data output
37	$\overline{DSPRST}$	O	Reset control (DSP).	
38	DSPINT	I	Interrupt signal input (DSP).	H : Interrupt
39	NC	-		
40	SEARCH	O	Search condition output.	H : Search, L : Normal condition
41	LOE/LIM SW	I	Loading-end detection/Pick-up inner circumference detection	H : Inner circumference
42~49	NC	-		

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Processing Operation
50	FLAGIN	I	C2Err impossibility detection.	L : Correction is possible. H : Correction is impossible.
51~61	NC	-		
62	DVSS	-	GND.	
63	$\overline{\text{NMI}}$	I	Non-maskable interrupt request.	
64	DVCC	-	Power supply terminal.	
65~77	NC	-		
78	NC/BOOT	I	Mask : Not connected. Flash : For writing (Active "L").	L : Write, H : Nomal condition
79,80	NC	-		
81	OND3.3	O	Digital 3.3V power-on control terminal.	H : POWER ON
82	$\overline{\text{MUTEL}}$	O	Lch audio mute control.	
83	$\overline{\text{MUTER}}$	O	Rch audio mute control.	
84	SDA	I/O	I2C data (Main μ -com).	
85	SCL	I/O	I2C clock (Main μ -com).	
86	$\overline{\text{MSTOP}}$	I	Stand-by comeback interrupt.	L : Stop, H : Stop is released.
87	NC	-		
88	$\overline{\text{DMUTE}}$	O	Driver mute.	L : MUTE ON, H : MUTE OFF
89	DVCC	-	Power supply terminal.	
90	NC	-		
91	DVSS	-	GND.	
92,93	NC	-	GND.	
94	MSEL	I	Memory capacity switching terminal.	H : Capacity size down, L : Capacity size up
95	NC	-	GND.	
96	ASEL	I	Audio output polarity switch.	H : Reverse output, L : Non-reverse output
97	CHSEL	I	Changer destination terminal.	H : Changer, L : Other source
98	SEL0	I	μ -com destination terminal 0.	
99	SEL1	I	μ -com destination terminal 1.	
100	VREFH	I	Reference power supply input terminal for ADC (H).	Back-up 3.3V

TEST MODE

How to enter the test mode

While simultaneously press PRESET "1" key and PRESET "3" key, press "RESET" button.

How to release the test mode

Press "RESET" button. (The release cannot be achieved in the conditions of POWER OFF and ACC OFF.)

Initial conditions of the test mode

- The source is "STANDBY".
- The displays all lit up.
- The volume is at -10dB (The display shows "30".)
- LOUD is "OFF".
- CRSC is "OFF".
- SYSTEM Q is "NATURAL".
- BEEP is sounded at all time with the key depressed for less than 1 second.

Special displays when all indicator lights are lighted

When "PRESET" keys are pressed while all indicators for the STANDBY sources are lighted, the following displays will appear.

PRESET "1" key	• Version display (8 digits : month, date, hour, minute) (Display) : x x x x x x x x
PRESET "2" key	• Serial number display (8 digits) (Display) : x x x x x x x x
PRESET "3" key	• When pressed for less than 1 second : POWER ON time display (STANDBY source time is not counted.) (Display) : PON x x x x x MAX 60,000 (hours) * The display is cleared by pressing the key for more than 2 seconds.
PRESET "4" key	• When pressed for less than 1 second : CD operation time display (Display) : PLY x x x x x MAX 60,000 (hours) * The display is cleared by pressing the key for more than 2 seconds.

PRESET "5" key	• When pressed for less than 1 second : CD EJECT number display (Display) : EJC x x x x x MAX 60,000 (times) * The display is cleared by pressing the key for more than 2 seconds.
PRESET "6" key	• When pressed for less than 1 second : Panel open/close number display (Display) : PNL x x x x x MAX 600,000 (times) * The display is cleared by pressing the key for more than 2 seconds.
"FM" key	• ROM CORRECTION version display (Display) Effective : ROM _ Rxxx (x : number) Not effective (When not able to read) : ROM _ R _ _ _ Not effective (When version is different) : ROM _ R***
"AM" key	• IC10 adjustment status (Refer to "ADJUSTMENT" on the following page.) (Display) Adjustment complete : E2P _ OK _ _ Adjustment not completed : E2P _ ER _ _ Communication error : I2C _ ER _ _ * When other than "E2P _ OK _ _", Pin No. 30 will become "H".
"◀◀" key	• Mechanism error detection status • Communication error → Error No. 1 → Error No. 2 → Error No. 3 → Communication error (Error No. 1 is the most recent error.) (Display) Communication OK : I2C _ OK _ _ Communication error : I2C _ NG _ _ Not detected : ERR _ n _ _ _ (n : 1~3) Detected : ERR _ n-* (* : error code) * The display is cleared by pressing the key for more than 2 seconds.

SPECIAL MODE

● Security (KDC-MP5029/W5031/W5031Y only)

• How to enter the forced POWER ON mode

While “— — —” is being displayed, while simultaneously pressing “Q” key and “4” key, press “RESET” button. With this, it is possible to turn the power on for 30 minutes only.

• How to register the security code on the “Car Audio Passport” sheet after replacing E2PROM (IC11)

1. Enter the test mode. (Refer to “How to enter the test mode”.)
2. In the test mode, press “MENU” key to enter the MENU mode.
When “SECURITY” is displayed, press “▶|” key (for less than 1 second) to enter the security registration mode.
3. Input the security code, using “FM” / “AM” / “◀◀” / “▶▶” keys.
“FM” key : number up / “AM” key : number down
“▶▶” key : cursor to right / “◀◀” key : cursor to left
4. After inputting the code, press “▶|” key for 3 seconds or more which causes “RE-ENTER” to be displayed. This is for “confirming” the code. Use the method in above No. “3” to re-enter the code.
5. Then, press “▶|” key for 3 seconds or more, which will display “APPROVED”. This completes the security code registration.
6. Release the test mode. (Refer to “How to release the test mode”.)

* All clear cannot be used to clear the security code.

● DC offset error detection confirmation mode

Confirmation mode :

While depressing PRESET “3” key and PRESET “6” key simultaneously, press on the “RESET” button.

(Display) Detected : DC _ ERR _ _

Not detected : DC _ OK _ _ _

- * By pressing “AUTO” or “TI” key while “DC _ ERR _ _” is being displayed, detection status is cleared. This will result in the display of “DC _ OK _ _ _”.

Release Method : Press “RESET” button.

● Mechanism memory clear confirmation mode

Confirmation mode :

While depressing “ATT” key and “Q” key simultaneously, press “RESET” button.

(Display) : MEM _ CLR _

- * 2 seconds after the confirmation mode boots up, Mechanism memory clear as a result is displayed.

(Display) Clear status display normal completion

: CD _ O _ _ _

Clear status display abnormal completion

: CD _ X _ _ _

Release Method : Press “RESET” button.

● FM/AM channel space switching (KDC-MP5029 only)

When in the conditions of ACC ON and POWER OFF, while depressing PRESET “1” key and PRESET “5” key simultaneously, press “SRC” key.

ADJUSTMENT

After replacing the following parts, adjust as follows.

REPLACED PARTS		ADJUSTMENT ITEMS		
Ref. No.	Function / Parts name	1st AM MIX	2nd AM MIX	FM antenna
IC10	E-VOL & TUNER	YES	YES	YES
IC11	E2PROM	YES	YES	YES
L507	VCO COIL	YES	YES	YES
L508	1st AM MIX IFT	YES	-	-
L509	2nd AM MIX IFT	-	YES	-
L518	FM ANTENNA COIL	-	-	YES
D504	VARIABLE CAPACITANCE DIODE	YES	YES	YES
D506	VARIABLE CAPACITANCE DIODE	YES	YES	YES
X501	CRYSTAL RESONATOR	YES	YES	YES

● 1st AM MIX / 2nd AM MIX ADJUSTMENT

ADJUSTMENT POINT : L508 (1st AM MIX) / L509 (2nd AM MIX)

VOLTAGE VALUE CHECK POINT : S-METER check land (X34-)
Adjust so that S-METER voltage value becomes maximum.

• SG setting

DESTINATION	FREQUENCY	MODULATION	ANTENNA INPUT
Europe	999kHz	OFF	35dBμV (EMF)
Except Europe	1000kHz	OFF	35dBμV (EMF)

● FM ANTENNA ADJUSTMENT

ADJUSTMENT POINT : L518

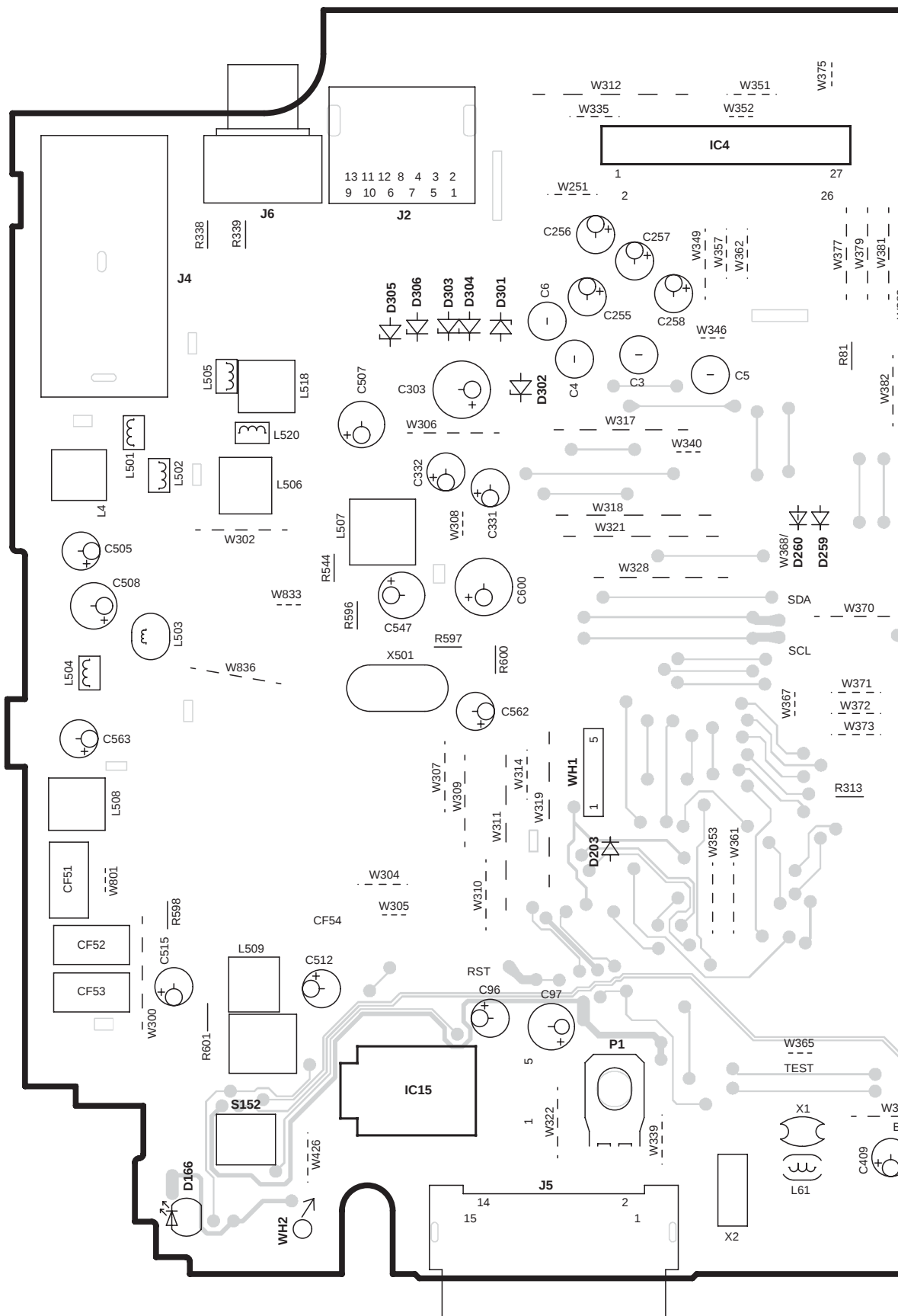
VOLTAGE VALUE CHECK POINT : S-METER check land (X34-)
Adjust so that S-METER voltage value becomes maximum.

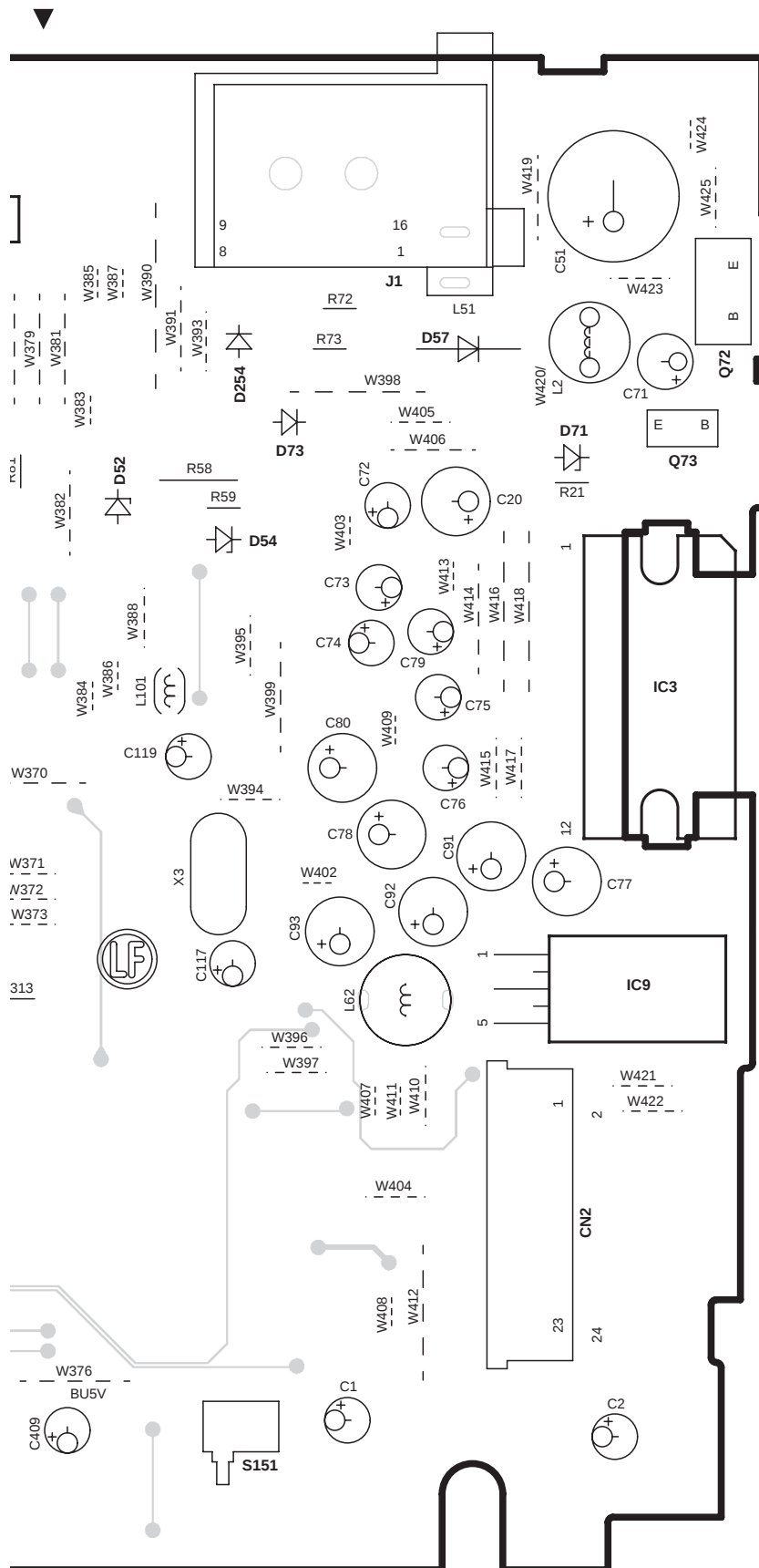
• SG setting

DESTINATION	FREQUENCY	MODULATION	ANTENNA INPUT
Europe	87.5MHz	OFF	5dBμV (LOAD) or 11dBμV (EMF)
Except Europe	87.9MHz	OFF	5dBμV (LOAD) or 11dBμV (EMF)

PC BOARD (COMPONENT SIDE VIEW)

ELECTRIC UNIT X34-339x-xx (J76-0075-12)





X34-339x-xx

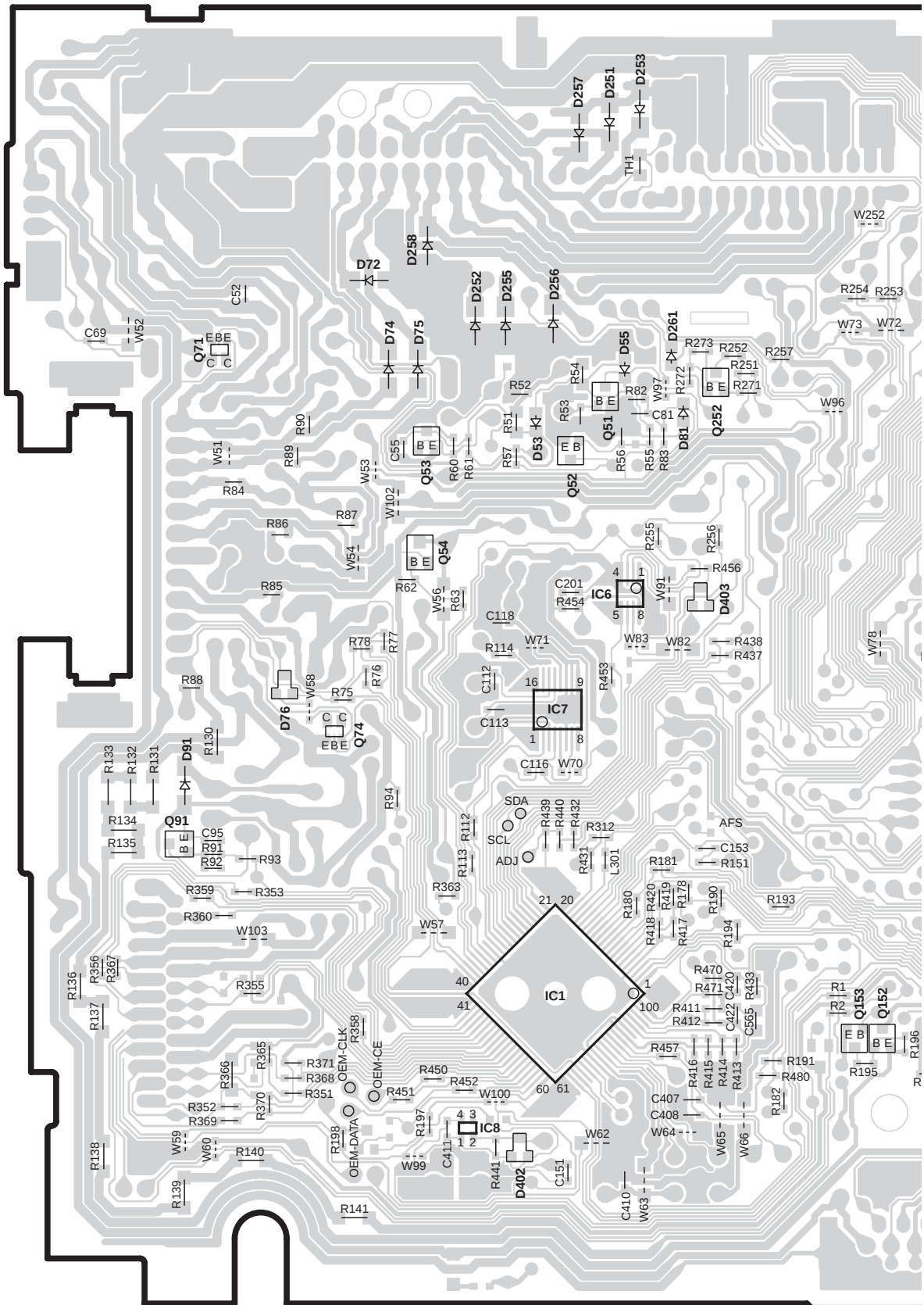
Ref. No.	Address
IC3	4M
IC4	2J
IC9	5M
IC15	6H
Q72	3M
Q73	3M

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

KDC-MP5029/W5031
/W5031Y/W531Y

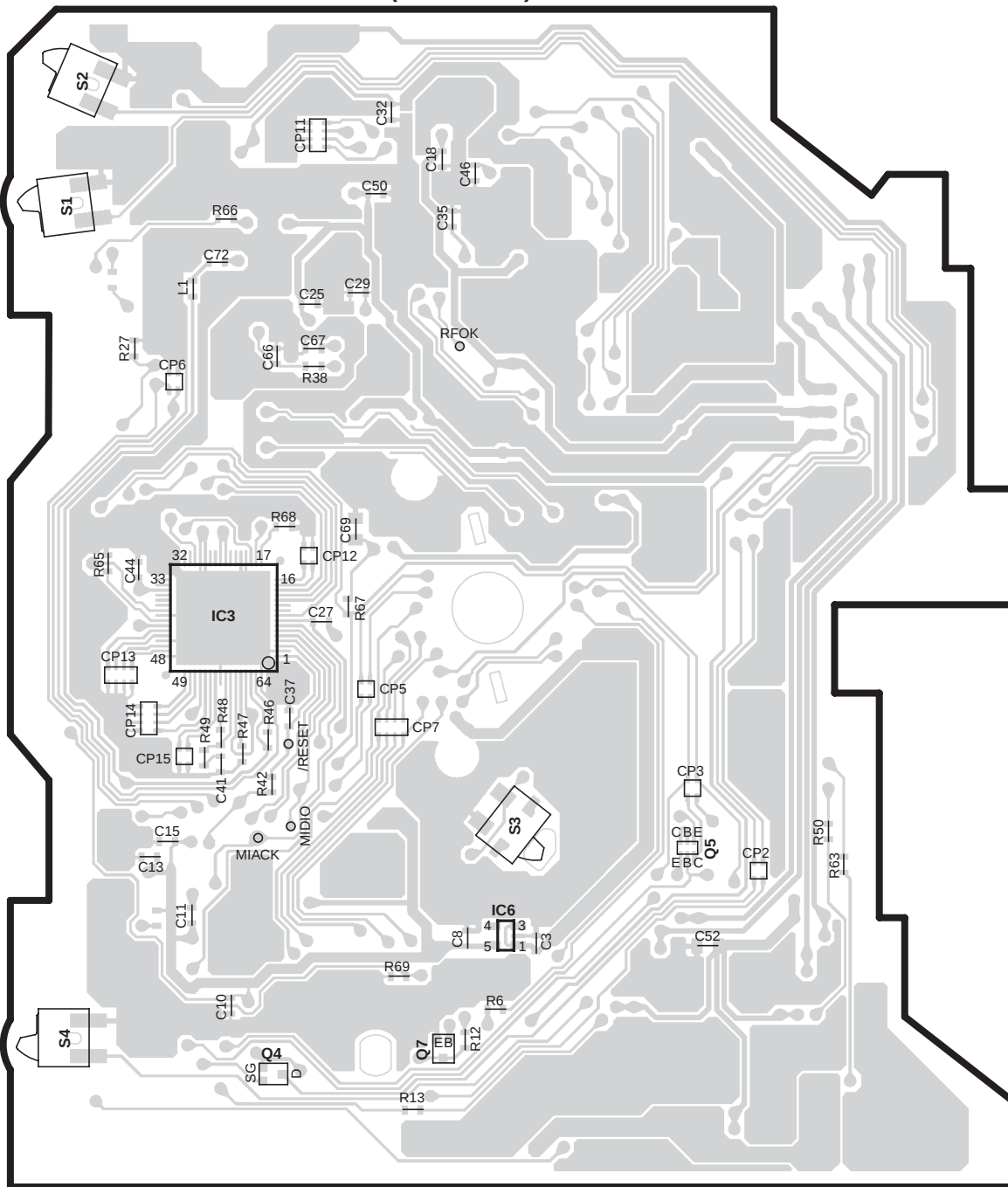
PC BOARD (FOIL SIDE VIEW)

ELECTRIC UNIT X34-339x-xx (J76-0075-12)



Ref. No.	Address	Ref. No.	Address
IC1	6S	Q74	5R
IC6	4S	Q91	5Q
IC7	4S	Q151	7V
IC8	6S	Q152	6T
IC10	5V	Q153	6T
IC11	4U	Q156	6V
Q51	3S	Q252	3T
Q52	3S	Q330	3U
Q53	3R	Q351	3V
Q54	4R	Q352	3W
Q71	3Q	Q501	4W

17

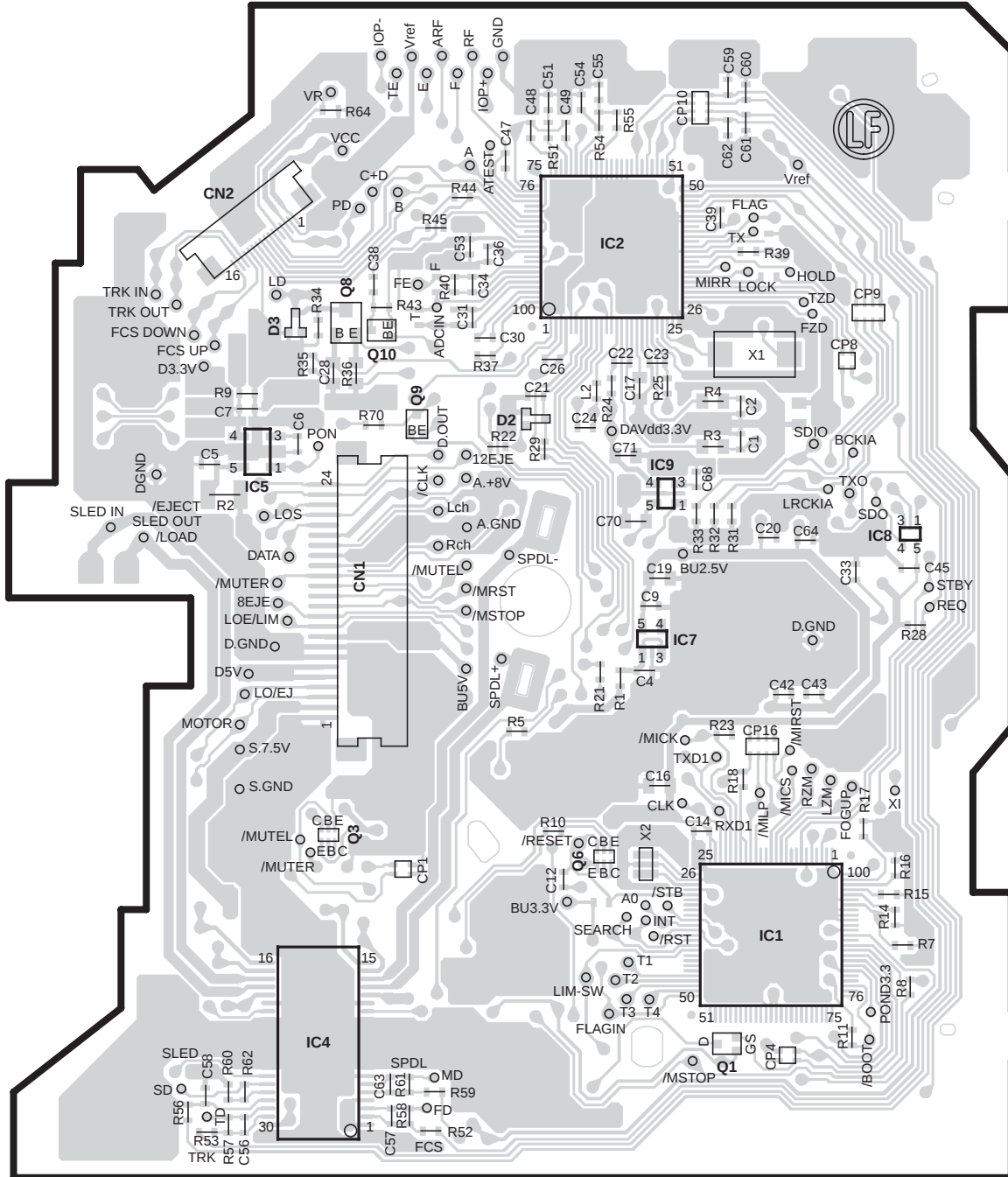
KDC-MP5029/W5031
/W5031Y/W531Y**PC BOARD (COMPONENT SIDE VIEW)****CD PLAYER UNIT X32-5500-00 (J74-1552-12)****X32-5500-00**

Ref. No.	Address
IC3	4AA
IC6	5AB
Q4	5AA
Q5	5AC
Q7	5AB

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

PC BOARD (FOIL SIDE VIEW)

CD PLAYER UNIT X32-5500-00 (J74-1552-12)

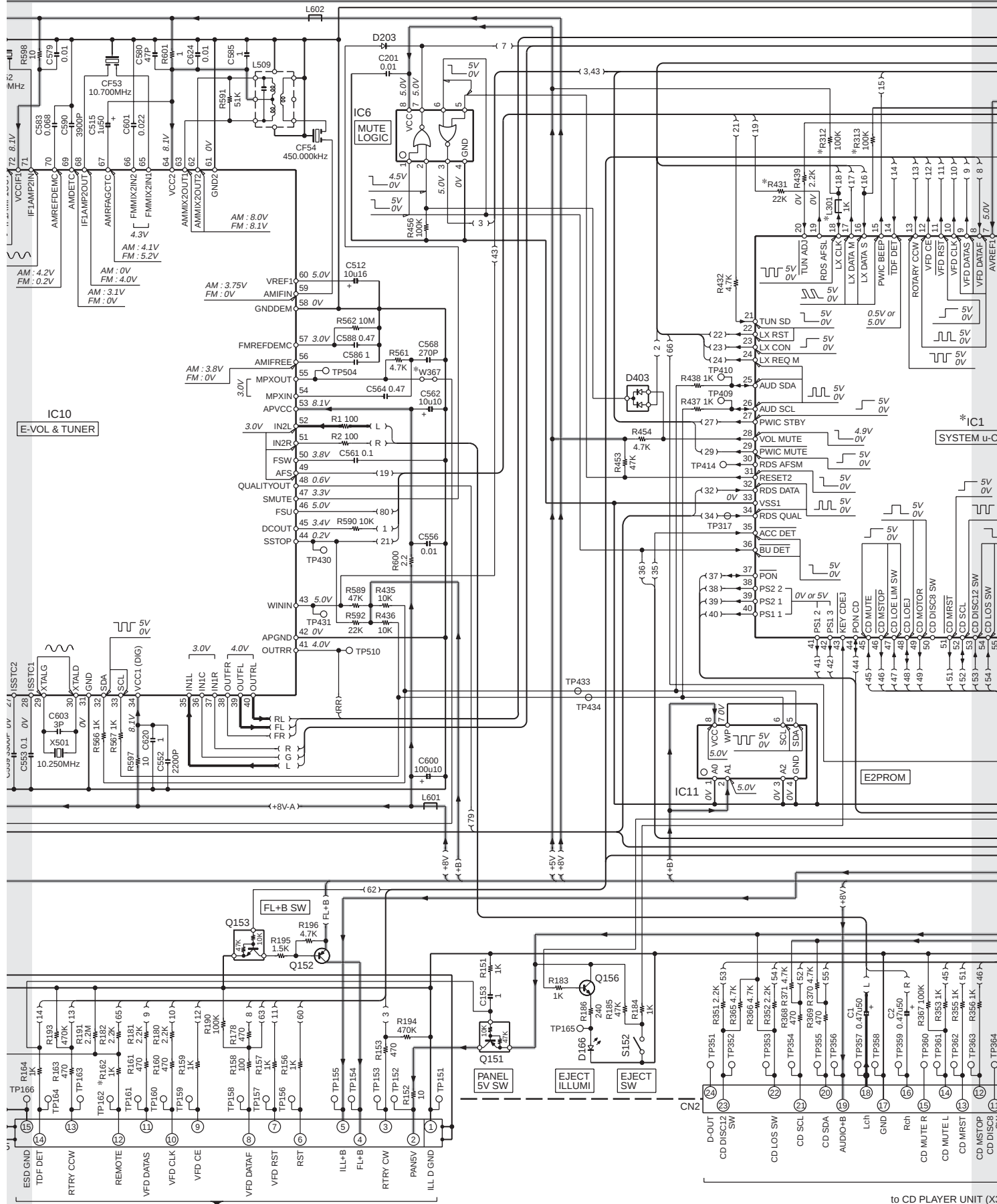


X32-5500-00

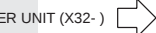
Ref. No.	Address	Ref. No.	Address
IC1	5AH	Q1	5AH
IC2	2AG	Q3	5AF
IC4	5AF	Q6	5AG
IC5	3AF	Q8	2AF
IC7	4AG	Q9	3AF
IC8	3AH	Q10	3AF
IC9	3AG		

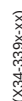
Refer to the schematic diagram for the values of resistors and capacitors.

KDC-MP5029/W5031 W5031Y/W5031Y

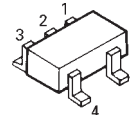


to CD PLAYER UNIT (X)

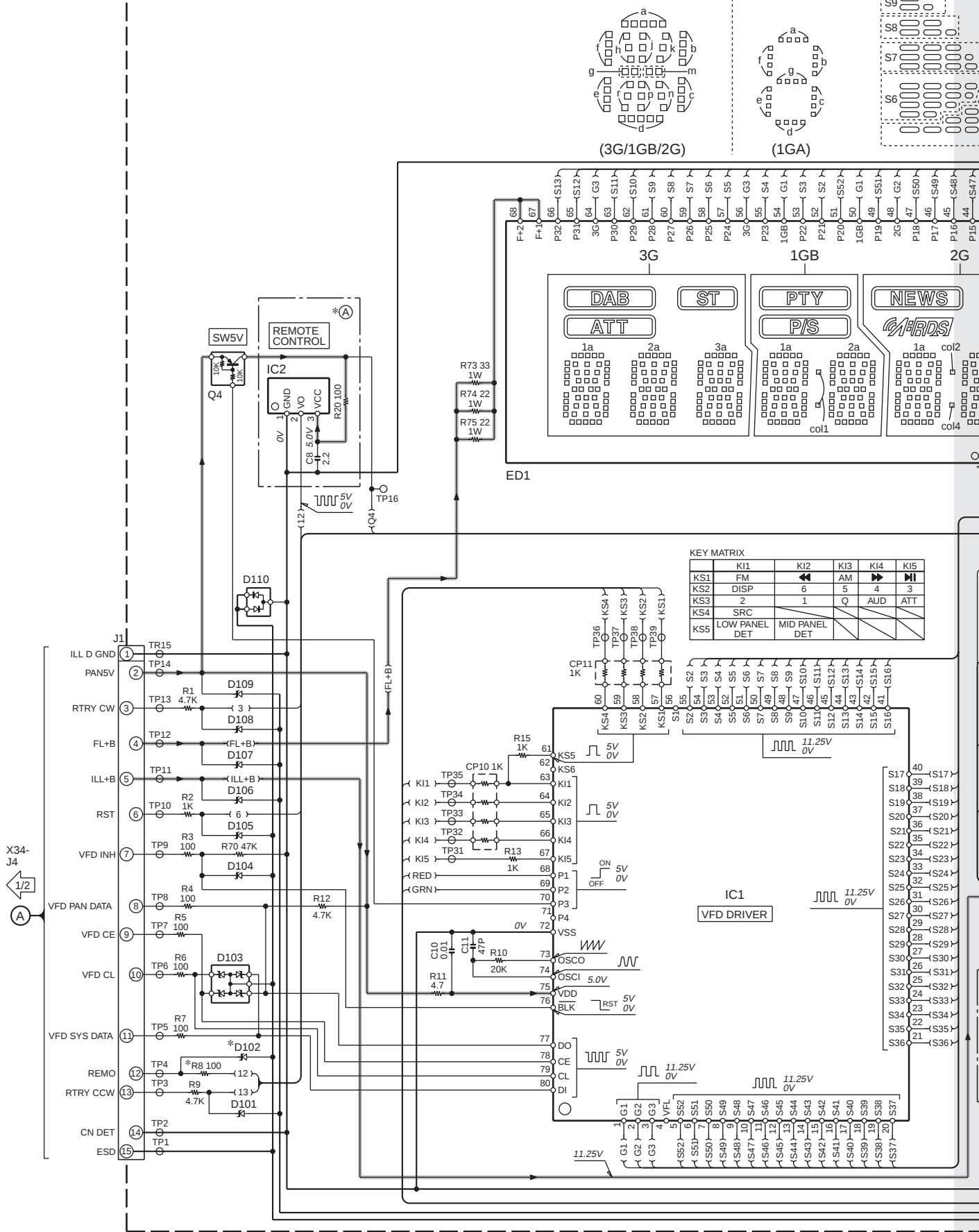




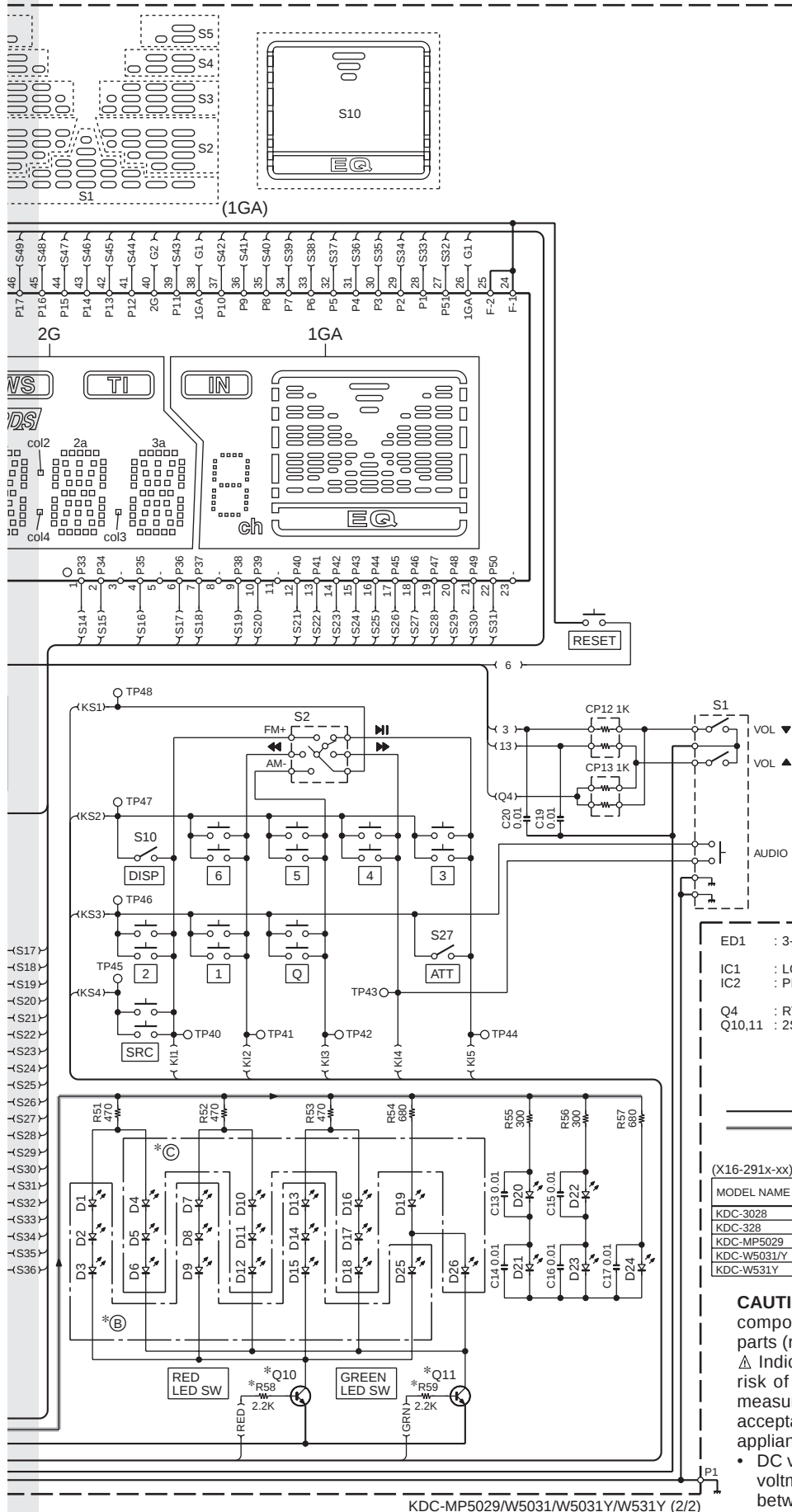
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.



SWITCH UNIT (X16-291x-xx)



KDC-MP5029/W5031 W5031Y/W531Y



ED1 : ANODE CONNECTION

PIN NAME	3G	2G	1GA,1GB
P1	1d	3d	Ch
P2	1n	3n	d
P3	1p	3p	e
P4	1r	3r	c
P5	1e	3e	g
P6	1c	3c	f
P7	1g	3g	b
P8	1m	3m	a
P9	1f	3f	S1
P10	1b	3b	S2
P11	1k	3k	S3
P12	1j	3j	S4
P13	1h	3h	S5
P14	1a	3a	S6
P15	—	—	S7
P16	—	—	S8
P17	—	—	S9
P18	ATT	TI	IN
P19	DAB	NEWS	P/S
P20	ST	PT	PTY
P21	2a	1a	1a
P22	3a	2a	2a
P23	2h	1h	1h
P24	3h	2h	2h
P25	2j	1j	1j
P26	3j	2j	2j
P27	2k	1k	1k
P28	3k	2k	2k
P29	2b	1b	1b
P30	3b	2b	2b
P31	2f	1f	1f
P32	3f	2f	2f
P33	3d	2d	2d
P34	2d	1d	1d
P35	3n	2n	2n
P36	2n	1n	1n
P37	3p	2p	2p
P38	—	col2	col1
P39	2m	1m	1m
P40	3m	2m	2m
P41	2g	1g	1g
P42	3g	2g	2g
P43	2c	1c	1c
P44	3c	2c	2c
P45	2e	1e	1e
P46	3e	2e	2e
P47	2r	1r	1r
P48	—	col4	—
P49	3r	2r	2r
P50	—	col3	S10
P51	2p	1p	1p

ED1 : 3-BT-225N D1-3,7-9,13-15,19,25
 IC1 : LC75756W B30-1566-05 (COLOR: RED)
 IC2 : PNA4S22M B30-1565-05 (COLOR: PG)
 Q4 : RT1P141U B30-1729-05 (COLOR: BLUE)
 Q10,11 : 2SC5383(E,F) D101,102,104,105,107-109
 D103 : FTZ6.8E
 D106 : 02D212F-X
 D110 : DA204U

— GND LINE
 — +B LINE

(X16-291x-xx)

MODEL NAME	DESTINATION	UNIT No.	(A)	(B)	(C)	D102	Q10	Q11	R8	R58	R59
KDC-3028	K	0-11	YES	YES	—	YES	YES	—	YES	YES	—
KDC-328	K	—	—	—	—	—	—	—	—	—	—
KDC-MP5029	M	0-22	YES	—	YES	YES	—	YES	YES	—	YES
KDC-W5031/Y	E	2-71	YES	YES	YES	YES	YES	YES	YES	YES	YES
KDC-W531Y	E	2-72	—	YES	YES	—	YES	YES	—	YES	YES

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

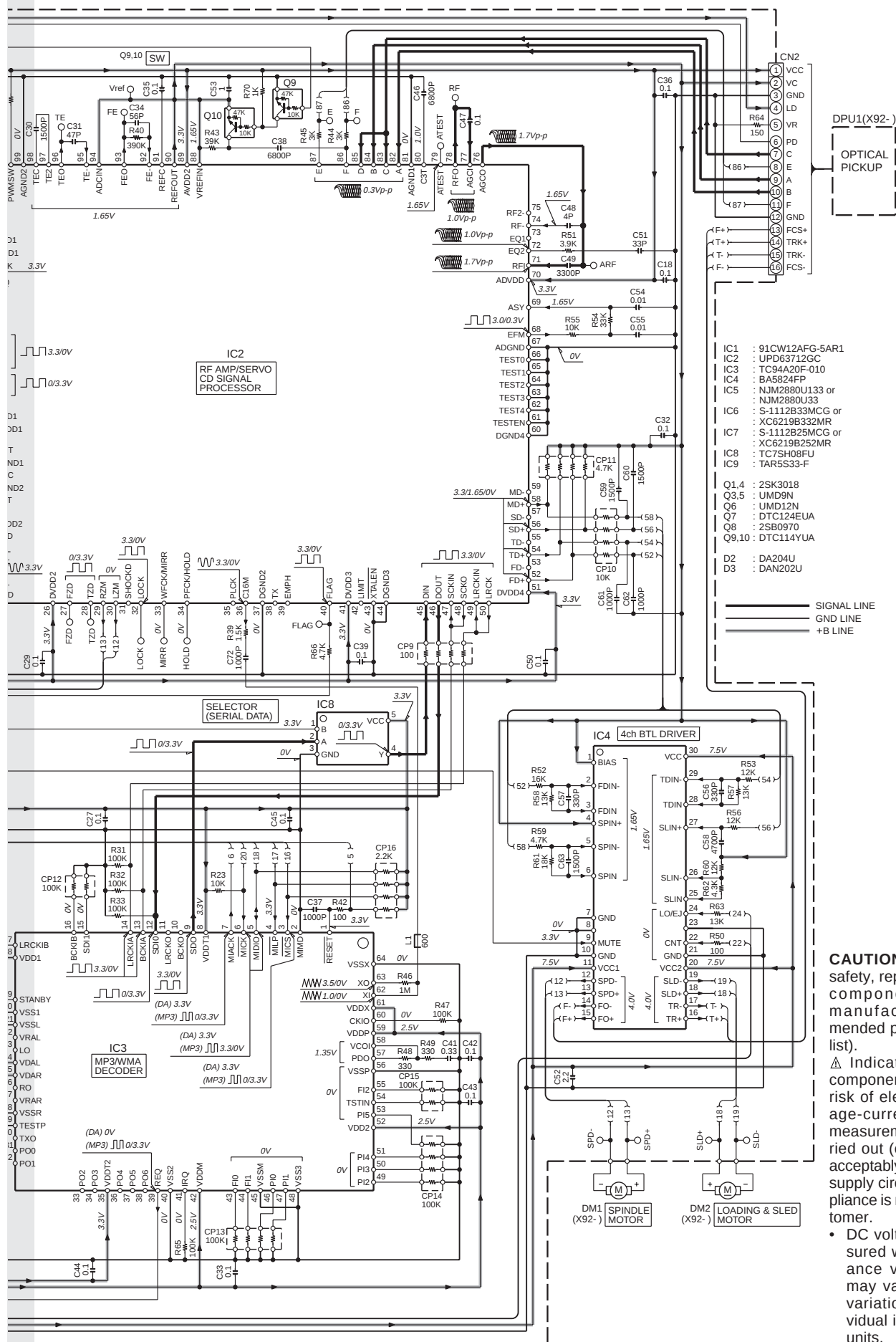
△ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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

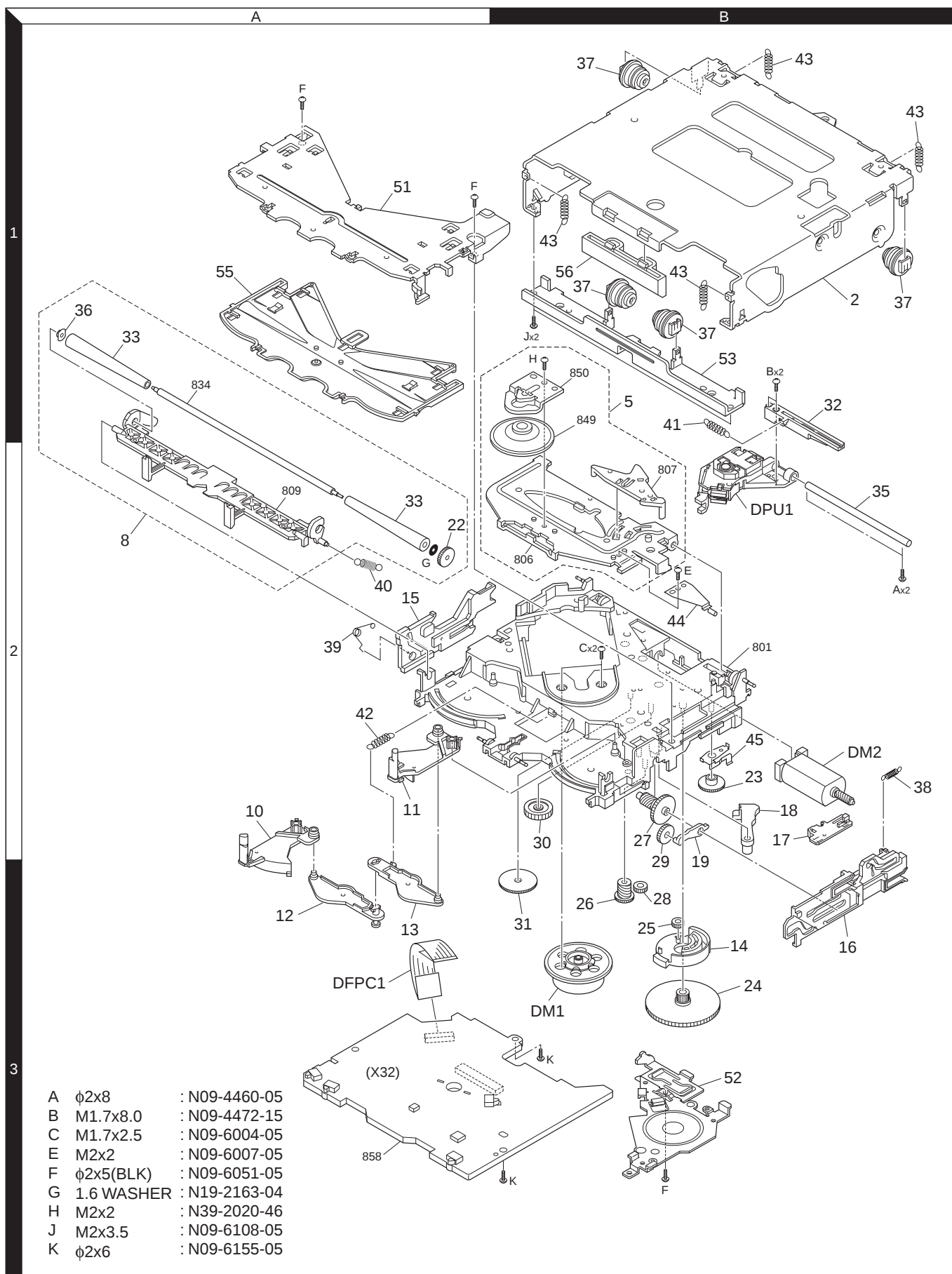
CD PLAYER UNIT (X32-5500-00)



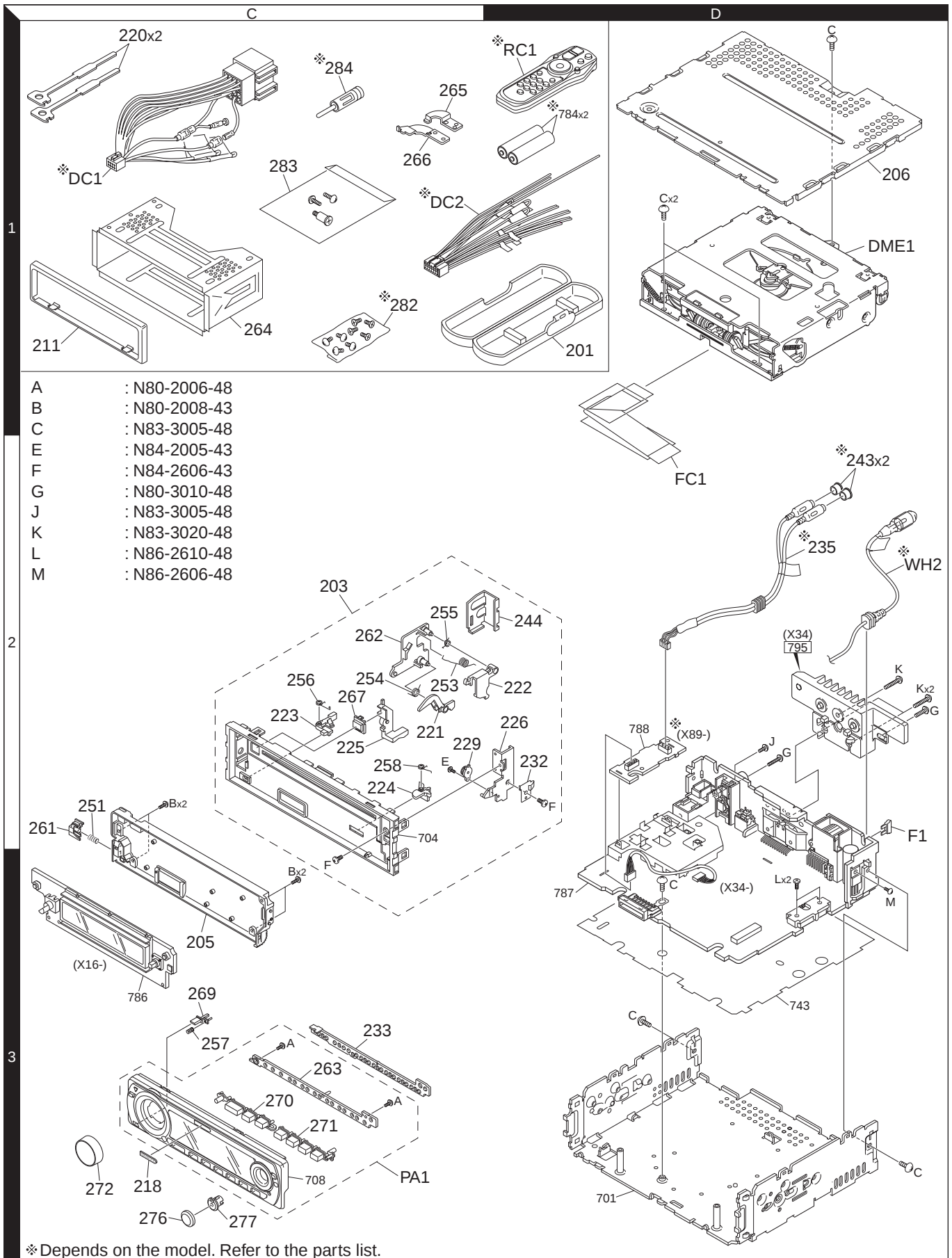
KDC-MP5029/W5031 W5031Y/W531Y



EXPLODED VIEW (CD MECHANISM)



EXPLODED VIEW (UNIT)



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

KDC-MP5029/W5031
/W5031Y/W531Y

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
KDC-MP5029/W5031/W5031Y/W531Y					
201	2C	*	A02-2743-03	PLASTIC CABINET ASSY	
203	2C	*	A22-3059-12	SUB PANEL ASSY	
205	3D	*	A46-1816-01	REAR COVER	
206	1D		A52-0804-12	TOP PLATE	
PA1	3C	*	A64-3484-12	PANEL ASSY	M2
PA1	3C	*	A64-3485-02	PANEL ASSY	E1E2
PA1	3C	*	A64-3488-02	PANEL ASSY	E3
RC1	1D		A70-2069-05	REMOTE CONTROLLER ASSY (RC-517)	M2
-			B46-0100-50	WARRANTY CARD	M2E1
-			B46-0606-04	ID CARD	E3
-			B46-0612-14	ID CARD	M2E1E2
-		*	B64-2950-00	INST. MANUAL (ENG, T-CHI)	M2
-		*	B64-2951-00	INST. MANUAL (ARABIC)	M2
-		*	B64-2952-00	INST. MANUAL (ENGLISH)	E1E2E3
-		*	B64-2953-00	INST. MANUAL (FRE,GER, DUT)	E1
-		*	B64-2954-00	INST. MANUAL (ITA, SPA, POR)	E1
-		*	B64-2955-00	INST. MANUAL (RUSSIAN)	E2E3
211	1C		B07-3122-01	ESCUTCHEON	
218	3C		B43-1518-04	BADGE	
220	1C		D10-4589-04	LEVER	
221	2C	*	D10-4865-03	LEVER	
222	2D	*	D10-4866-03	LEVER	
223	2C	*	D10-4867-04	LEVER	
224	2C	*	D10-4868-04	LEVER	
225	2C	*	D10-4869-03	LEVER	
226	2D	*	D10-4870-04	ARM ASSY	
229	2C		D39-0255-05	DAMPER	
232	2D	*	E29-2028-04	LEAD PLATE	
233	3C	*	E29-2029-03	CONDUCTIVE RUBBER	
235	2D		E30-6229-05	CORD WITH PINPLUG	M2E1E2
DC1	1C		E30-6413-05	DC CORD	E1E2E3
DC2	1C		E30-6415-15	DC CORD	M2
FC1	2D		E39-0718-05	FLAT CABLE	
WH2	2D		E30-6403-05	WIRING HARNESS	E1E2
243	2D		F29-0626-04	INSULATING COVER	M2E1E2
244	2D	*	F31-0716-04	REINFORCING HARDWARE	
F1	2D		F52-0006-05	FUSE (MINI BLADE TYPE) (10A)	
251	2C		G01-3173-04	COMPRESSION SPRING	
253	2C	*	G01-3246-04	TORSION COIL SPRING	
254	2C	*	G01-3247-04	TORSION COIL SPRING	
255	2C	*	G01-3248-04	TORSION COIL SPRING	
256	2C	*	G01-3249-04	TORSION COIL SPRING	
257	3C	*	G01-3250-04	COMPRESSION SPRING	
258	2C	*	G01-3270-04	TORSION COIL SPRING	
-			H10-4919-12	POLYSTYRENE FOAMED FIXTURE	
-			H25-0329-04	PROTECTION BAG (280X450X0.03)	M2E2E3
-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
-			H25-1111-04	PROTECTION BAG (280X450X0.03)	E1
-		*	H54-3281-13	ITEM CARTON CASE (KDC-MP5029)	M2
-		*	H54-3282-03	ITEM CARTON CASE (KDC-W5031)	E1

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
-		*	H54-3283-03	ITEM CARTON CASE (KDC-W5031Y)	E2
-		*	H54-3331-03	ITEM CARTON CASE (KDC-W531Y)	E3
261	2C		J19-5205-03	HOLDER	
262	2C	*	J19-7049-03	HOLDER	
263	3C	*	J19-7050-02	HOLDER	
264	1C		J22-0011-03	MOUNTING HARDWARE ASSY	
265	1C	*	J22-0258-04	MOUNTING HARDWARE (L)	
266	1C	*	J22-0259-04	MOUNTING HARDWARE (R)	
267	2C	*	K24-4282-04	PUSH KNOB (EJECT)	
269	3C	*	K24-4285-04	PUSH KNOB (RELEASE)	
270	3C	*	K25-1692-03	PUSH KNOB (Q, SRC, 1, 2)	
271	3C	*	K25-1694-03	PUSH KNOB (3, 4, 5, 6)	
272	3C		K29-7132-03	KNOB ASSY (VOL)	
276	3C		K29-7139-03	KEY TOP (FM/AM)	M2E1E2
276	3C		K29-7140-03	KEY TOP (FM/AM)	E3
277	3C	*	K29-7141-03	KNOB BASE (FM/AM)	
282	1C		N99-1757-05	SCREW SET	M2
283	1C	*	N99-1763-05	SCREW SET	
A	3C		N80-2006-48	PAN HEAD TAPTITE SCREW	
B	2C		N80-2008-43	PAN HEAD TAPTITE SCREW	
C	1D		N83-3005-48	PAN HEAD TAPTITE SCREW	
E	2C		N84-2005-43	PAN HEAD TAPTITE SCREW	
F	2C		N84-2606-43	PAN HEAD TAPTITE SCREW	
L	3D		N86-2610-48	BINDING HEAD TAPTITE SCREW	
284	1C		T90-0523-05	ANTENNA ADAPTOR	E1E2E3
DME1	1D		X92-4850-00	MECHANISM ASSY	
SWITCH UNIT (X16-291x-xx)					
D1-3			B30-1566-05	LED (RED)	E1E2E3
D4-6			B30-1565-05	LED (PG)	
D7-9			B30-1566-05	LED (RED)	E1E2E3
D10-12			B30-1565-05	LED (PG)	
D13-15			B30-1566-05	LED (RED)	E1E2E3
D16-18			B30-1565-05	LED (PG)	
D19			B30-1566-05	LED (RED)	
D20-24			B30-1729-05	LED (BLUE)	
D25			B30-1566-05	LED (RED)	E1E2E3
D26			B30-1565-05	LED (PG)	
C8			CK73FB1A225K	CHIP C 2.2UF K	M2E1E2
C10			CK73GB1H103K	CHIP C 0.010UF K	
C11			CC73GCH1H470J	CHIP C 47PF J	
C13-17			CK73GB1H103K	CHIP C 0.010UF K	
C19,20			CK73GB1H103K	CHIP C 0.010UF K	
J1			E59-0840-05	RECTANGULAR PLUG	
CP10,11			RK74HB1J102J	CHIP-COM 1.0K J 1/16W	
CP12,13			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
R1			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R2			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R3-7			RK73EB2E101J	CHIP R 100 J 1/4W	E3
R3-8			RK73EB2E101J	CHIP R 100 J 1/4W	M2E1E2
R9			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R10			RK73GB2A203J	CHIP R 20K J 1/10W	

E1 : KDC-W5031 E2 : KDC-W5031Y E3 : KDC-W531Y M2 : KDC-MP5029
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

SWITCH UNIT (X16-291x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R11			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	M2E1E2	C29			CK73GB1C104K	CHIP C 0.10UF K	
R12			RK73GB2A472J	CHIP R 4.7K J 1/10W		C30			CK73GB1H152K	CHIP C 1500PF K	
R13			RK73GB2A102J	CHIP R 1.0K J 1/10W		C31			CC73GCH1H470J	CHIP C 47PF J	
R15			RK73GB2A102J	CHIP R 1.0K J 1/10W		C32,33			CK73GB1C104K	CHIP C 0.10UF K	
R20			RK73GB2A101J	CHIP R 100 J 1/10W		C34			CC73GCH1H560J	CHIP C 56PF J	
R51-53			RK73FB2B471J	CHIP R 470 J 1/8W	E1E2E3	C35,36			CK73GB1C104K	CHIP C 0.10UF K	
R54			RK73EB2E681J	CHIP R 680 J 1/4W		C37			CK73GB1H102K	CHIP C 1000PF K	
R55,56			RK73FB2B301J	CHIP R 300 J 1/8W		C38			CK73GB1H682K	CHIP C 6800PF K	
R57			RK73EB2E681J	CHIP R 680 J 1/4W		C39			CK73GB1C104K	CHIP C 0.10UF K	
R58,59			RK73GB2A222J	CHIP R 2.2K J 1/10W		C41			CK73GB1A334K	CHIP C 0.33UF K	
R59			RK73GB2A222J	CHIP R 2.2K J 1/10W	M2	C42-45			CK73GB1C104K	CHIP C 0.10UF K	
R70			RK73GB2A473J	CHIP R 47K J 1/10W		C46			CK73GB1H682K	CHIP C 6800PF K	
R73			RK73SB3A330J	CHIP R 33 J 1W		C47			CK73GB1C104K	CHIP C 0.10UF K	
R74,75	*		RK73SB3A220J	CHIP R 22 J 1W		C48			CC73GCH1H040C	CHIP C 4.0PF C	
						C49			CK73GB1H332K	CHIP C 3300PF K	
S2			S70-0106-05	TACT SWITCH	E3 M2E1E2	C50			CK73GB1C104K	CHIP C 0.10UF K	
S10			S70-0051-15	TACT SWITCH		C51			CC73GCH1H330J	CHIP C 33PF J	
S27			S70-0051-15	TACT SWITCH		C52			CK73FB1A225K	CHIP C 2.2UF K	
S1			T99-0457-05	ROTARY ENCODER		C53			CK73GB0J105K	CHIP C 1.0UF K	
						C54,55			CK73GB1H103K	CHIP C 0.010UF K	
D101			02DZ6.8F-Y	ZENER DIODE	E3 M2E1E2	C56,57			CK73GB1H331K	CHIP C 330PF K	
D101,102			02DZ6.8F-Y	ZENER DIODE		C58			CK73GB1H472K	CHIP C 4700PF K	
D103			FTZ6.8E	ZENER DIODE		C59,60			CK73GB1H152K	CHIP C 1500PF K	
D104,105			02DZ6.8F-Y	ZENER DIODE		C61,62			CK73GB1H102K	CHIP C 1000PF K	
D106		*	02DZ12F-X	ZENER DIODE		C63			CK73GB1H152K	CHIP C 1500PF K	
D107-109			02DZ6.8F-Y	ZENER DIODE	M2E1E2	C64			CK73GB1C104K	CHIP C 0.10UF K	
D110			DA204U	DIODE		C66			CC73GCH1H120J	CHIP C 12PF J	
ED1		*	3-BT-225N	FLUORESCENT INDICATOR TUBE		C67			CC73GCH1H180J	CHIP C 18PF J	
IC1			LC75756W	MOS-IC		C68			CK73GB1H103K	CHIP C 0.010UF K	
IC2			PNA4S22M	ANALOGUE IC		C69			CK73FB1A225K	CHIP C 2.2UF K	
Q4			DTA114EE	DIGITAL TRANSISTOR	E1E2E3 E1E2E3	C70			CK73FB1A105K	CHIP C 1.0UF K	
Q4			KRA302E-P	DIGITAL TRANSISTOR		C71			CK73FB0J106M	CHIP C 10UF M	
Q4			RT1P141U	DIGITAL TRANSISTOR		C72			CK73GB1H102K	CHIP C 1000PF K	
Q10,11			KTC4075EP (Y,GR)	TRANSISTOR		CN1			E41-2083-05	FLAT CABLE CONNECTOR	
Q10,11			2SC4617	TRANSISTOR		CN2			E41-2068-05	FLAT CABLE CONNECTOR	
Q10,11			2SC5383 (E,F)	TRANSISTOR	E1E2E3	CN2			E41-2297-05	FLAT CABLE CONNECTOR	
Q11			KTC4075EP (Y,GR)	TRANSISTOR	M2						
Q11			2SC4617	TRANSISTOR	M2						
Q11			2SC5383 (E,F)	TRANSISTOR	M2						
CD PLAYER UNIT (X32-5500-00)						L1,2			L92-0386-05	CHIP FERRITE	
C1,2			CK73GB1H222K	CHIP C 2200PF K		X1			L77-2808-05	CRYSTAL RESONATOR (16.897849MHZ)	
C3,4			CK73GB0J105K	CHIP C 1.0UF K		X2			L78-0896-05	RESONATOR (16.00MHZ)	
C5			CK73GB1C104K	CHIP C 0.10UF K		CP1			RK74GA1J104J	CHIP-COM 100K J 1/16W	
C6			CK73GB1H103K	CHIP C 0.010UF K		CP2,3			RK74GA1J101J	CHIP-COM 100 J 1/16W	
C7-9			CK73GB0J105K	CHIP C 1.0UF K		CP4			RK74GA1J103J	CHIP-COM 10K J 1/16W	
C10-15			CK73GB1C104K	CHIP C 0.10UF K		CP5			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
C16			CK73FB0J475K	CHIP C 4.7UF K		CP6			RK74GA1J104J	CHIP-COM 100K J 1/16W	
C17			CK73FB0J106M	CHIP C 10UF M		CP7			RK74GB1J102J	CHIP-COM 1.0K J 1/16W	
C18			CK73GB1C104K	CHIP C 0.10UF K		CP8			RK74GA1J102J	CHIP-COM 1.0K J 1/16W	
C19			CK73FB0J475K	CHIP C 4.7UF K		CP9			RK74GB1J101J	CHIP-COM 100 J 1/16W	
C20			CK73GB1C104K	CHIP C 0.10UF K		CP10			RK74GB1J103J	CHIP-COM 10K J 1/16W	
C21			CK73GB1H102K	CHIP C 1000PF K		CP11			RK74GB1J472J	CHIP-COM 4.7K J 1/16W	
C22,23			CK73GB0J105K	CHIP C 1.0UF K		CP12			RK74GA1J104J	CHIP-COM 100K J 1/16W	
C24-27			CK73GB1C104K	CHIP C 0.10UF K		CP13,14			RK74GB1J104J	CHIP-COM 100K J 1/16W	
C28			CK73FB0J106M	CHIP C 10UF M		CP15			RK74GA1J104J	CHIP-COM 100K J 1/16W	
						CP16			RK74GB1J222J	CHIP-COM 2.2K J 1/16W	
						R1			RK73GB2A100J	CHIP R 10 J 1/10W	

E1 : KDC-W5031 E2 : KDC-W5031Y E3 : KDC-W531Y M2 : KDC-MP5029
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

CD PLAYER UNIT (X32-5500-00)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R2			R92-3494-05	CHIP R 5.6 F 1/2W	
R3,4			RK73FB2B331J	CHIP R 330 J 1/8W	
R5			RK73GB2A101J	CHIP R 100 J 1/10W	
R6			RN73GH1J223D	CHIP R 22K D 1/16W	
R7			RK73GB2A104J	CHIP R 100K J 1/10W	
R8			RN73GH1J393D	CHIP R 39K D 1/16W	
R9			RK73GB2A104J	CHIP R 100K J 1/10W	
R10			RK73GB2A101J	CHIP R 100 J 1/10W	
R11,12			RK73GB2A104J	CHIP R 100K J 1/10W	
R13			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R14-17			RK73GB2A104J	CHIP R 100K J 1/10W	
R18			RK73GB2A101J	CHIP R 100 J 1/10W	
R21-23			RK73GB2A103J	CHIP R 10K J 1/10W	
R24,25			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R27			RK73GB2A104J	CHIP R 100K J 1/10W	
R28			RK73GB2A103J	CHIP R 10K J 1/10W	
R29			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R31-33			RK73GB2A104J	CHIP R 100K J 1/10W	
R34			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R35			RK73GB2A104J	CHIP R 100K J 1/10W	
R36			RK73FB2B4R7J	CHIP R 4.7 J 1/8W	
R37			RK73GB2A103J	CHIP R 10K J 1/10W	
R38			RK73GB2A221J	CHIP R 220 J 1/10W	
R39			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R40			RK73GB2A394J	CHIP R 390K J 1/10W	
R42			RK73GB2A101J	CHIP R 100 J 1/10W	
R43			RK73GB2A393J	CHIP R 39K J 1/10W	
R44,45			RK73GB2A302J	CHIP R 3.0K J 1/10W	
R46			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R47			RK73GB2A104J	CHIP R 100K J 1/10W	
R48,49			RK73GB2A331J	CHIP R 330 J 1/10W	
R50			RK73GB2A101J	CHIP R 100 J 1/10W	
R51			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R52			RK73GB2A163J	CHIP R 16K J 1/10W	
R53			RK73GB2A123J	CHIP R 12K J 1/10W	
R54			RK73GB2A333J	CHIP R 33K J 1/10W	
R55			RK73GB2A103J	CHIP R 10K J 1/10W	
R56			RK73GB2A123J	CHIP R 12K J 1/10W	
R57,58			RK73GB2A133J	CHIP R 13K J 1/10W	
R59			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R60			RK73GB2A123J	CHIP R 12K J 1/10W	
R61			RK73GB2A183J	CHIP R 18K J 1/10W	
R62			RK73GB2A432J	CHIP R 4.3K J 1/10W	
R63			RK73GB2A133J	CHIP R 13K J 1/10W	
R64			RK73GB2A151J	CHIP R 150 J 1/10W	
R65			RK73GB2A104J	CHIP R 100K J 1/10W	
R66			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R67			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R68,69			RK73GB2A104J	CHIP R 100K J 1/10W	
R70			RK73GB2A102J	CHIP R 1.0K J 1/10W	
S1,2			S68-0863-05	PUSH SWITCH	
S3			S68-0862-05	PUSH SWITCH	
D2			DA204U	DIODE	
D3			DAN202U	DIODE	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
IC1			91CW12AFG-5AR1	MICROCONTROLLER IC	
IC2			UPD63712GC	MOS-IC	
IC3			TC94A20F-010	MOS-IC	
IC4			BA5824FP	ANALOGUE IC	
IC5			NJM2880U133	ANALOGUE IC	
IC5			NJM2880U33	ANALOGUE IC	
IC6			S-1112B33MCG	ANALOGUE IC	
IC6			XC6219B332MR	ANALOGUE IC	
IC7			S-1112B25MCG	ANALOGUE IC	
IC7			XC6219B252MR	ANALOGUE IC	
IC8			TC7SH08FU	MOS-IC	
IC9			TAR5S33-F	ANALOGUE IC	
Q1			2SK3018	FET	
Q3			UMD9N	DIGITAL TRANSISTOR	
Q4			2SK3018	FET	
Q5			UMD9N	DIGITAL TRANSISTOR	
Q6			UMD12N	DIGITAL TRANSISTOR	
Q7			DTC124EUA	DIGITAL TRANSISTOR	
Q8			2SB0970	TRANSISTOR	
Q9,10			DTC114YUA	DIGITAL TRANSISTOR	
ELECTRIC UNIT (X34-339x-xx)					
D166		*	B30-1710-05	LED (RED)	
C1,2			CD04AT1HR47M	ELECTRO 0.47UF	50WV
C3-6			C90-5684-05	NP-ELECT 0.22UF	50WV
C3-6			C90-6735-05	NP-ELECT 0.22UF	50WV
C51			C90-5683-05	ELECTRO 3300UF	16WV
C51			C90-6746-05	ELECTRO 3300UF	16WV
C52,53			CK73GB1H102K	CHIP C 1000PF	K
C54,55			CK73GB1H103K	CHIP C 0.010UF	K
C69			CK73GB1A474K	CHIP C 0.47UF	K
C71			CD04AS1C470M	ELECTRO 47UF	16WV
C72			CD04AS1E100M	ELECTRO 10UF	25WV
C72,73			CD04AS1E100M	ELECTRO 10UF	25WV
C74,75			CD04AS1C100M	ELECTRO 10UF	16WV
C76			CD04BH1A100M	ELECTRO 10UF	10WV
C77			CD04AT1H100M	ELECTRO 10UF	50WV
C78			CD04BF1C221M	ELECTRO 220UF	16WV
C79			CD04AS1C100M	ELECTRO 10UF	16WV
C80			CD04BF1C221M	ELECTRO 220UF	16WV
C81,82			CK73GB1H103K	CHIP C 0.010UF	K
C91,92			CD04BF1E101M	ELECTRO 100UF	25WV
C93			CD04BF1C221M	ELECTRO 220UF	16WV
C95			CK73GB1A224K	CHIP C 0.22UF	K
C96			CD04AS1HR47M	ELECTRO 0.47UF	50WV
C97			CD04BF1C220M	ELECTRO 22UF	16WV
C112,113			CC73GCH1H100D	CHIP C 10PF	D
C116			CC73GCH1H331J	CHIP C 330PF	J
C117			CD04AS1H2R2M	ELECTRO 2.2UF	50WV
C118			CK73GB1H103K	CHIP C 0.010UF	K
C119			CD04AS1C100M	ELECTRO 10UF	16WV
C151			CK73GB1H103K	CHIP C 0.010UF	K
C153			CK73GB0J105K	CHIP C 1.0UF	K
C201			CK73GB1H103K	CHIP C 0.010UF	K
C255			CD04AS1A330M	ELECTRO 33UF	10WV

E1 : KDC-W5031 E2 : KDC-W5031Y E3 : KDC-W531Y M2 : KDC-MP5029
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-339x-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
C255			CD04AS1C100M	ELECTRO 10UF 16WV	E3	C564			CK73GB1A474K	CHIP C 0.47UF K	
C256			CD04AS1H010M	ELECTRO 1UF 50WV		C565			CK73FB1C105K	CHIP C 1.0UF K	
C257			C90-5663-05	ELECTRO 1UF 50WV		C568			CC73GCH1H271J	CHIP C 270PF J	
C258			CD04AS1H010M	ELECTRO 1UF 50WV		C579			CK73GB1H103K	CHIP C 0.010UF K	
C301,302			CK73FB1C474K	CHIP C 0.47UF K	M2E1E2	C580			CC73GCH1H470J	CHIP C 47PF J	
C303			CD04AT1A470M	ELECTRO 47UF 10WV	M2E1E2	C581			CC73GCH1H101J	CHIP C 100PF J	
C331,332			CD04AT1C100M	ELECTRO 10UF 16WV		C582			CK73GB1E223K	CHIP C 0.022UF K	
C333,334			CC73GCH1H681J	CHIP C 680PF J	E1E2E3	C582			CK73GB1H223K	CHIP C 0.022UF K	
C407			CC73GCH1H220J	CHIP C 22PF J		C583			CK73GB1C683K	CHIP C 0.068UF K	
C408			CC73GCH1H180J	CHIP C 18PF J		C583			CK73GB1H683K	CHIP C 0.068UF K	
C409			CD04AS0J470M	ELECTRO 47UF 6.3WV		C584,585			CK73GB1A105K	CHIP C 1.0UF K	
C410			CK73GB1H103K	CHIP C 0.010UF K		C586			CK73GB0J105K	CHIP C 1.0UF K	
C411			CK73GB1A224K	CHIP C 0.22UF K		C587			CK73GB1C104K	CHIP C 0.10UF K	
C420			CC73GCH1H102J	CHIP C 1000PF J		C588			CK73GB1A474K	CHIP C 0.47UF K	
C422			CC73GCH1H101J	CHIP C 100PF J		C589			CK73GB1C104K	CHIP C 0.10UF K	
C502			CK73GB1H152K	CHIP C 1500PF K		C590			CK73GB1H392K	CHIP C 3900PF K	
C503			CK73GB1C104K	CHIP C 0.10UF K		C600			CD04AT1A101M	ELECTRO 100UF 10WV	
C504			CK73GB1H103K	CHIP C 0.010UF K		C601			CK73GB1E223K	CHIP C 0.022UF K	
C505			CD04AT1C4R7M	ELECTRO 4.7UF 16WV		C601			CK73GB1H223K	CHIP C 0.022UF K	
C506			CK73GB1A684K	CHIP C 0.68UF K		C602			CC73GCH1H151J	CHIP C 150PF J	
C507,508			CD04AT1A220M	ELECTRO 22UF 10WV		C603			CC73GCH1H030C	CHIP C 3.0PF C	
C509			CC73GCH1H680J	CHIP C 68PF J		C604			CC73GCH1H470J	CHIP C 47PF J	
C510			CC73GCH1H101J	CHIP C 100PF J		C605,606			CC73GCH1H010C	CHIP C 1.0PF C	
C511			CK73GB1H103K	CHIP C 0.010UF K		C610			CC73GCH1H010C	CHIP C 1.0PF C	
C512			CD04AT1C100M	ELECTRO 10UF 16WV		C620			CK73GB1A105K	CHIP C 1.0UF K	
C513,514			CK73GB1H103K	CHIP C 0.010UF K		C623,624			CK73GB1H103K	CHIP C 0.010UF K	
C515			CD04AT1H010M	ELECTRO 1UF 50WV		C625-627			CC73GCH1H101J	CHIP C 100PF J	
C516			CC73GCH1H100D	CHIP C 10PF D		C628			CK73GB1A105K	CHIP C 1.0UF K	
C517,518			CK73GB1A105K	CHIP C 1.0UF K		C632			CK73GB1H102K	CHIP C 1000PF K	
C519,520			CK73GB1A474K	CHIP C 0.47UF K							
C521,522			CC73GCH1H102J	CHIP C 1000PF J	△	CN2			E41-2244-05	FLAT CABLE CONNECTOR	
C524			CC73GCH1H180J	CHIP C 18PF J		J1			E58-0991-05	RECTANGULAR RECEPTACLE	M2E1E2
C525			CC73GCH1H150J	CHIP C 15PF J		J2			E56-0855-05	CYLINDRICAL RECEPTACLE	
C527			CC73GCH1H102J	CHIP C 1000PF J		J4			E04-0326-05	RF COAXIAL CABLE RECEPTACLE	
C531			CK73GB1A105K	CHIP C 1.0UF K		J5			E58-0992-05	RECTANGULAR RECEPTACLE	
C541			CC73GCH1H271J	CHIP C 270PF J		J6			E63-0898-05	PIN JACK	
C542			CC73GCH1H050C	CHIP C 5.0PF C		WH1			E39-0717-05	WIRING HARNESS	M2E1E2
C543			CC73GCH1H080D	CHIP C 8.0PF D							
C544			CC73GCH1H150J	CHIP C 15PF J		CF51-53			L72-0805-05	CERAMIC FILTER	
C545			CK73GB1H682K	CHIP C 6800PF K		CF54			L72-0804-05	CERAMIC FILTER	
C547			CD04AT1A220M	ELECTRO 22UF 10WV		L4			L33-2260-05	CHOKE COIL	
C548			CK73GB1E223K	CHIP C 0.022UF K		L51			L33-1988-05	CHOKE COIL ASSY (140UH)	
C548			CK73GB1H223K	CHIP C 0.022UF K		L61			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH)	
C549			CK73GB1H222K	CHIP C 2200PF K		L62			L33-1925-05	CHOKE COIL (220UH)	
C550			CK73GB1E333K	CHIP C 0.033UF K		L101			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH)	E1E2
C550			CK73GB1H333K	CHIP C 0.033UF K		L301			L92-0337-05	CHIP FERRITE	M2E1E2
C551			CK73GB1H103K	CHIP C 0.010UF K		L501			L40-6891-58	SMALL FIXED INDUCTOR (6.8UH)	
C552			CK73GB1H222K	CHIP C 2200PF K		L502			L40-3301-58	SMALL FIXED INDUCTOR (33UH)	
C553			CK73GB1C104K	CHIP C 0.10UF K							
C554			CK73GB1A334K	CHIP C 0.33UF K		L503			L40-1021-56	SMALL FIXED INDUCTOR (1000UH)	
C556			CK73GB1H103K	CHIP C 0.010UF K		L504			L40-1011-58	SMALL FIXED INDUCTOR (100UH)	
C559			CK73GB1H332K	CHIP C 3300PF K		L505			L40-3381-58	SMALL FIXED INDUCTOR (0.33UH)	
C561			CK73GB1C104K	CHIP C 0.10UF K		L506			L31-0977-15	FM-RF COIL	
C562			CD04AT1A100M	ELECTRO 10UF 10WV		L507			L32-0941-15	FM OSCILLATING COIL	
C563			CD04AT1HR47M	ELECTRO 0.47UF 50WV		L508			L30-0776-15	FM IFT	
						L509			L30-0777-15	AM IFT	
						L518			L31-0976-15	FM-RF COIL	

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

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PARTS LIST

ELECTRIC UNIT (X34-339x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
L520 L521 L600 L601,602 L604,605			L40-3381-58 L40-1073-72 L92-0607-05 L92-0397-05 L92-0609-05	SMALL FIXED INDUCTOR (0.33UH) SMALL FIXED INDUCTOR (10NH) CHIP FERRITE CHIP FERRITE CHIP FERRITE	
X1 X2 X3 X501			L78-0879-05 L77-2793-05 L77-2002-05 L77-2077-05	RESONATOR (10.0MHZ) CRYSTAL RESONATOR (32.768KHZ) CRYSTAL RESONATOR (4.332MHZ) CRYSTAL RESONATOR (10.250MHZ)	E1E2
G J K M	2D 2D 2D 3D		N80-3010-48 N83-3005-48 N83-3020-48 N86-2606-48	PAN HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW	
R1,2 R21 R51 R52 R53			RK73GB2A101J RD14BB2C152J RK73FB2B683J RK73GB2A393J RK73GB2A104J	CHIP R 100 J 1/10W RD 1.5K J 1/6W CHIP R 68K J 1/8W CHIP R 39K J 1/10W CHIP R 100K J 1/10W	
R54 R55,56 R57 R58 R59			RK73FB2B203J RK73GB2A103J RK73GB2A223J RD14DB2H332J RD14BB2C333J	CHIP R 20K J 1/8W CHIP R 10K J 1/10W CHIP R 22K J 1/10W SMALL-RD 3.3K J 1/2W RD 33K J 1/6W	
R60 R61 R62 R63 R72,73			RK73GB2A103J RK73GB2A223J RK73GB2A473J RK73GB2A562J RD14BB2C472J	CHIP R 10K J 1/10W CHIP R 22K J 1/10W CHIP R 47K J 1/10W CHIP R 5.6K J 1/10W RD 4.7K J 1/6W	
R75-78 R81 R82 R83 R84-88			RK73GB2A103J RD14BB2C103J RK73GB2A223J RK73GB2A473J RK73GB2A1R0J	CHIP R 10K J 1/10W RD 10K J 1/6W CHIP R 22K J 1/10W CHIP R 47K J 1/10W CHIP R 1.0 J 1/10W	E1E2E3
R84-90 R90 R91-94 R96 R97			RK73GB2A1R0J RK73GB2A1R0J RK73GB2A473J RK73GH2A273D RK73GH2A332D	CHIP R 1.0 J 1/10W CHIP R 1.0 J 1/10W CHIP R 47K J 1/10W CHIP R 27K D 1/10W CHIP R 3.3K D 1/10W	M2 E1E2E3
R98 R100 R112-114 R130-141 R151			RK73GB2A102J RK73GB2A272J RK73GB2A222J RK73EB2E2R2J RK73GB2A102J	CHIP R 1.0K J 1/10W CHIP R 2.7K J 1/10W CHIP R 2.2K J 1/10W CHIP R 2.2 J 1/4W CHIP R 1.0K J 1/10W	E1E2
R152 R153 R156,157 R158 R159			RK73EB2E100J RK73EB2E471J RK73EB2E102J RK73EB2E101J RK73EB2E102J	CHIP R 10 J 1/4W CHIP R 470 J 1/4W CHIP R 1.0K J 1/4W CHIP R 100 J 1/4W CHIP R 1.0K J 1/4W	
R160,161 R162 R163 R164 R172			RK73EB2E471J RK73EB2E102J RK73EB2E471J RK73EB2E102J RK73EB2E102J	CHIP R 470 J 1/4W CHIP R 1.0K J 1/4W CHIP R 470 J 1/4W CHIP R 1.0K J 1/4W CHIP R 1.0K J 1/4W	M2E1E2 E1E2
R178			RK73GB2A471J	CHIP R 470 J 1/10W	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R180-182 R183,184 R185 R186 R190			RK73GB2A222J RK73GB2A102J RK73GB2A473J RK73GB2A241J RK73GB2A104J	CHIP R 2.2K J 1/10W CHIP R 1.0K J 1/10W CHIP R 47K J 1/10W CHIP R 240 J 1/10W CHIP R 100K J 1/10W	
R191 R193,194 R195 R196 R197			RK73GB2A225J RK73GB2A474J RK73GB2A152J RK73GB2A472J RK73GB2A102J	CHIP R 2.2M J 1/10W CHIP R 470K J 1/10W CHIP R 1.5K J 1/10W CHIP R 4.7K J 1/10W CHIP R 1.0K J 1/10W	
R198 R251 R251 R252 R253			RK73GB2A474J RK73GB2A154J RK73GB2A333J RK73GB2A473J RK73GB2A432J	CHIP R 470K J 1/10W CHIP R 150K J 1/10W CHIP R 33K J 1/10W CHIP R 47K J 1/10W CHIP R 4.3K J 1/10W	E3 M2E1E2
R254 R255 R255 R256 R256			RK73GB2A100J RK73GB2A221J RK73GB2A331J RK73GB2A154J RK73GB2A223J	CHIP R 10 J 1/10W CHIP R 220 J 1/10W CHIP R 330 J 1/10W CHIP R 150K J 1/10W CHIP R 22K J 1/10W	M2E1E2 E3 M2E1E2
R257 R257 R271 R272 R273			RK73GB2A123J RK73GB2A303J RK73GB2A101J RK73GB2A103J RK73GB2A474J	CHIP R 12K J 1/10W CHIP R 30K J 1/10W CHIP R 100 J 1/10W CHIP R 10K J 1/10W CHIP R 470K J 1/10W	E3 M2E1E2
R301,302 R303 R304,305 R306 R307-309			RK73EB2E100J RK73EB2E101J RK73EB2E472J RK73EB2E4R7J RK73EB2E472J	CHIP R 10 J 1/4W CHIP R 100 J 1/4W CHIP R 4.7K J 1/4W CHIP R 4.7 J 1/4W CHIP R 4.7K J 1/4W	M2E1E2 M2E1E2 M2E1E2 M2E1E2 M2E1E2
R310,311 R312 R313 R331,332 R335,336			RK73EB2E101J RK73GB2A104J RD14BB2C104J RK73GB2A271J RK73GB2A303J	CHIP R 100 J 1/4W CHIP R 100K J 1/10W RD 100K J 1/6W CHIP R 270 J 1/10W CHIP R 30K J 1/10W	M2E1E2 M2E1E2 M2E1E2 M2E1E2
R338,339 R351,352 R353 R355,356 R358			RD14BB2C101J RK73GB2A222J RK73GB2A102J RK73GB2A102J RK73GB2A222J	RD 100 J 1/6W CHIP R 2.2K J 1/10W CHIP R 1.0K J 1/10W CHIP R 1.0K J 1/10W CHIP R 2.2K J 1/10W	
R359 R360 R363 R365 R366			RK73GB2A101J RK73GB2A222J RK73GB2A472J RK73GB2A472J RK73EB2E472J	CHIP R 100 J 1/10W CHIP R 2.2K J 1/10W CHIP R 4.7K J 1/10W CHIP R 4.7K J 1/10W CHIP R 4.7K J 1/4W	
R367 R368,369 R370,371 R411 R412,413			RK73GB2A104J RK73GB2A471J RK73GB2A472J RK73GB2A223J RK73GB2A223J	CHIP R 100K J 1/10W CHIP R 470 J 1/10W CHIP R 4.7K J 1/10W CHIP R 22K J 1/10W CHIP R 22K J 1/10W	M2 E1E2E3
R414,415 R415 R416-418 R417,418 R431			RK73GB2A223J RK73GB2A223J RK73GB2A223J RK73GB2A223J RK73GB2A223J	CHIP R 22K J 1/10W CHIP R 22K J 1/10W CHIP R 22K J 1/10W CHIP R 22K J 1/10W CHIP R 22K J 1/10W	M2 E1E2 E3 M2E1E2 E1E2

E1 : KDC-W5031 E2 : KDC-W5031Y E3 : KDC-W531Y M2 : KDC-MP5029
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-339x-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
R432			RK73GB2A472J	CHIP R 4.7K J 1/10W		W72			R92-2053-05	CHIP R 0 OHM J 1/8W	
R433			RK73GB2A222J	CHIP R 2.2K J 1/10W		W73			R92-1252-05	CHIP R 0 OHM J 1/16W	
R435,436			RK73GB2A103J	CHIP R 10K J 1/10W		W75			R92-2053-05	CHIP R 0 OHM J 1/8W	
R437,438			RK73GB2A102J	CHIP R 1.0K J 1/10W		W76			R92-1252-05	CHIP R 0 OHM J 1/16W	
R439			RK73GB2A222J	CHIP R 2.2K J 1/10W		W78			R92-2053-05	CHIP R 0 OHM J 1/8W	
R440,441			RK73GB2A473J	CHIP R 47K J 1/10W		W79			R92-1252-05	CHIP R 0 OHM J 1/16W	
R453			RK73GB2A473J	CHIP R 47K J 1/10W		W82			R92-2053-05	CHIP R 0 OHM J 1/8W	
R454			RK73GB2A472J	CHIP R 4.7K J 1/10W		W83			R92-1252-05	CHIP R 0 OHM J 1/16W	
R456			RK73GB2A104J	CHIP R 100K J 1/10W		W91			R92-2053-05	CHIP R 0 OHM J 1/8W	
R457			RK73GB2A103J	CHIP R 10K J 1/10W		W93			R92-2053-05	CHIP R 0 OHM J 1/8W	
R470			RK73GB2A222J	CHIP R 2.2K J 1/10W	E1E2	W96,97			R92-1252-05	CHIP R 0 OHM J 1/16W	
R471			RK73GB2A103J	CHIP R 10K J 1/10W	M2E3	W98			R92-2053-05	CHIP R 0 OHM J 1/8W	
R480			RK73GB2A104J	CHIP R 100K J 1/10W	M2E1E2	W99,100			R92-1252-05	CHIP R 0 OHM J 1/16W	
R501			RK73GB2A682J	CHIP R 6.8K J 1/10W		W102,103			R92-2053-05	CHIP R 0 OHM J 1/8W	
R502,503			RK73GB2A222J	CHIP R 2.2K J 1/10W		W252			R92-1252-05	CHIP R 0 OHM J 1/16W	M2E1E2
R504			RK73GB2A4R7J	CHIP R 4.7 J 1/10W		W506			R92-2053-05	CHIP R 0 OHM J 1/8W	
R505			RK73GB2A102J	CHIP R 1.0K J 1/10W		W604,605			R92-1252-05	CHIP R 0 OHM J 1/16W	
R506			RK73GB2A105J	CHIP R 1.0M J 1/10W		W611			R92-1252-05	CHIP R 0 OHM J 1/16W	
R507			RK73GB2A102J	CHIP R 1.0K J 1/10W		W802			R92-1252-05	CHIP R 0 OHM J 1/16W	
R520			RK73GB2A221J	CHIP R 220 J 1/10W		W803			R92-2053-05	CHIP R 0 OHM J 1/8W	
R521			RK73GB2A152J	CHIP R 1.5K J 1/10W		W804-807			R92-1252-05	CHIP R 0 OHM J 1/16W	
R522			RK73GB2A223J	CHIP R 22K J 1/10W		W808			R92-2053-05	CHIP R 0 OHM J 1/8W	
R523			RK73GB2A100J	CHIP R 10 J 1/10W		W810			R92-1252-05	CHIP R 0 OHM J 1/16W	
R543			RK73GB2A562J	CHIP R 5.6K J 1/10W		W812			R92-2053-05	CHIP R 0 OHM J 1/8W	
R544			RD14BB2C222J	RD 2.2K J 1/6W		W814			R92-2053-05	CHIP R 0 OHM J 1/8W	
R545			RK73GB2A333J	CHIP R 33K J 1/10W		W820			R92-2053-05	CHIP R 0 OHM J 1/8W	
R546			RK73GB2A432J	CHIP R 4.3K J 1/10W		W823			R92-1252-05	CHIP R 0 OHM J 1/16W	
R561			RK73GB2A472J	CHIP R 4.7K J 1/10W		W826,827			R92-2053-05	CHIP R 0 OHM J 1/8W	
R562			RK73GB2A106J	CHIP R 10M J 1/10W		W831			R92-1252-05	CHIP R 0 OHM J 1/16W	
R565			RK73GB2A394J	CHIP R 390K J 1/10W		W832			R92-2053-05	CHIP R 0 OHM J 1/8W	
R566,567			RK73GB2A102J	CHIP R 1.0K J 1/10W		W838			R92-1252-05	CHIP R 0 OHM J 1/16W	
R589			RK73GB2A473J	CHIP R 47K J 1/10W		S151	*		S74-0822-05	MICRO SWITCH	
R590			RK73GB2A103J	CHIP R 10K J 1/10W		S152	*		S70-0931-05	TACT SWITCH	
R591			RK73GB2A513J	CHIP R 51K J 1/10W		D3			IMSA-6801-E	SURGE ABSORBER	
R592			RK73GB2A223J	CHIP R 22K J 1/10W		D52			MAZ4068N-M	ZENER DIODE	
R594			RK73EB2E100J	CHIP R 10 J 1/4W		D53			UDZS6.8B	ZENER DIODE	
R596-598			RD14BB2C100J	RD 10 J 1/6W		D53			02DZ6.8F-Y	ZENER DIODE	
R599			RK73GB2A220J	CHIP R 22 J 1/10W		D54			MAZ4068N-M	ZENER DIODE	
R600			RD14BB2C2R2J	RD 2.2 J 1/6W		D55			1SS355	DIODE	
R601			RD14BB2C1R0J	RD 1.0 J 1/6W		D57			S2V60*A	DIODE	
R602			RK73GB2A122J	CHIP R 1.2K J 1/10W		D71			MAZ4082N-L	ZENER DIODE	
R603			RK73GB2A560J	CHIP R 56 J 1/10W		D72			D1F60-5063	DIODE	
R605,606			RK73GB2A100J	CHIP R 10 J 1/10W		D72			1SR154-400	DIODE	
W51			R92-1252-05	CHIP R 0 OHM J 1/16W	E1E2E3	D73			AM01ZNF	DIODE	
W52			R92-2053-05	CHIP R 0 OHM J 1/8W		D73			10EDA20	DIODE	
W53			R92-1252-05	CHIP R 0 OHM J 1/16W		D74,75			D1F60-5063	DIODE	
W54			R92-2053-05	CHIP R 0 OHM J 1/8W	M2E3	D74,75			1SR154-400	DIODE	
W56			R92-2053-05	CHIP R 0 OHM J 1/8W	E1E2	D76			DAN202U	DIODE	
W56,57			R92-2053-05	CHIP R 0 OHM J 1/8W		D76			KDS121-P	DIODE	
W58-60			R92-1252-05	CHIP R 0 OHM J 1/16W		D76			MC2848	DIODE	
W62,63			R92-2053-05	CHIP R 0 OHM J 1/8W		D81			UDZS4.7B	ZENER DIODE	
W64			R92-1252-05	CHIP R 0 OHM J 1/16W		D81			02DZ4.7F-Y	ZENER DIODE	
W65,66			R92-2053-05	CHIP R 0 OHM J 1/8W		D91			SFPB-54VNF	DIODE	
W70,71			R92-1252-05	CHIP R 0 OHM J 1/16W	E1E2						
W71			R92-1252-05	CHIP R 0 OHM J 1/16W	M2E3						

E1 : KDC-W5031 E2 : KDC-W5031Y E3 : KDC-W531Y M2 : KDC-MP5029
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-339x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
D162			STZ6.2N	ZENER DIODE	M2E1E2
D203			1SS133	DIODE	
D251-253			D1F60-5063	DIODE	M2E1E2
D251-253			1SR154-400	DIODE	M2E1E2
D254			AM01ZNF	DIODE	M2E1E2
D254			10EDA20	DIODE	M2E1E2
D255-258			D1F60-5063	DIODE	M2E1E2
D255-258			1SR154-400	DIODE	M2E1E2
D259			1SS133	DIODE	E3
D259,260			1SS133	DIODE	M2E1E2
D261			1SS355	DIODE	
D301-304			MAZ4062-L	ZENER DIODE	M2E1E2
D305,306			MAZ4068N-M	ZENER DIODE	M2E1E2
D402,403			DAN202U	DIODE	
D402,403			KDS121-P	DIODE	
D402,403			MC2848	DIODE	
D501			RN739F	DIODE	
D502,503			KP2311ETR-G	DIODE	
D504			KV1430STL-G	VARIABLE CAPACITANCE DIODE	
D506			HVC383B-E	VARIABLE CAPACITANCE DIODE	
IC1			784225GC254A	MICROCONTROLLER IC	
IC3			BA4911-V4	ANALOGUE IC	
IC4			E-TDA7560A	ANALOGUE IC	M2E1E2
IC4			TB2904HQ	ANALOGUE IC	E3
IC6			TC7W02FU-F	MOS-IC	
IC7			E-TDA7479AD	ANALOGUE IC	E1E2
IC8			S-80836CNNB-J	MOS-IC	
IC9			SI-8050JF3NF	ANALOGUE IC	
IC10			E-TDA7516	ANALOGUE IC	
IC11			BR24L04FV-W	ROM IC	
IC15			BA00CCWT	ANALOGUE IC	
Q51-53			2SC4081	TRANSISTOR	
Q54			2SA1036K	TRANSISTOR	
Q71			UMC2N	DIGITAL TRANSISTOR	
Q72			2SB1565 (E, F)	TRANSISTOR	
Q73			2SD1858	TRANSISTOR	
Q74			UMC2N	DIGITAL TRANSISTOR	
Q91			2SC4081	TRANSISTOR	
Q151			DTA114YUA	DIGITAL TRANSISTOR	
Q151			KRA307-P	DIGITAL TRANSISTOR	
Q151			RT1P144M	DIGITAL TRANSISTOR	
Q152			2SA1577	TRANSISTOR	
Q153			DTC114YUA	DIGITAL TRANSISTOR	
Q153			KRC407-P	DIGITAL TRANSISTOR	
Q153			RT1N144M	DIGITAL TRANSISTOR	
Q156			2SC4081	TRANSISTOR	
Q252			KTA2014P (Y, GR)	TRANSISTOR	
Q252			2SA1576A	TRANSISTOR	
Q252			2SA1603A	TRANSISTOR	
Q330			DTA124EUA	DIGITAL TRANSISTOR	
Q330			KRA303-P	DIGITAL TRANSISTOR	
Q330			RT1P241M	DIGITAL TRANSISTOR	
Q351,352			DTC143TUA	DIGITAL TRANSISTOR	
Q351,352			KRC410-P	DIGITAL TRANSISTOR	
Q351,352			RT1N430M	DIGITAL TRANSISTOR	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
Q501			HN3G01J (BL)-F	TRANSISTOR	
TH1			PRF21BE471QB2	POSITIVE RESISTOR	
DAUGHTER UNIT (X89-2690-10)					
C221,222			CD04AS1C100M	ELECTRO 10UF 16WV	M2E1E2
CN90			E41-0956-05	PIN ASSY	M2E1E2
CN91			E41-0930-05	PIN ASSY	M2E1E2
W101			E31-0001-00	JUMPER WIRE	M2E1E2
R221,222			RK73GB2A271J	CHIP R 270 J 1/10W	M2E1E2
R225,226			RK73GB2A303J	CHIP R 30K J 1/10W	M2E1E2
R229,230			RD14BB2C101J	RD 100 J 1/6W	M2E1E2
Q221,222			DTC143TUA	DIGITAL TRANSISTOR	M2E1E2
Q221,222			KRC410-P	DIGITAL TRANSISTOR	M2E1E2
Q221,222			RT1N430M	TRANSISTOR	M2E1E2
Q225			DTA124EUA	DIGITAL TRANSISTOR	M2E1E2
Q225			KRA303-P	DIGITAL TRANSISTOR	M2E1E2
Q225			RT1P241M	TRANSISTOR	M2E1E2
MECHANISM UNIT (X92-4850-00)					
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	
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	

E1 : KDC-W5031 E2 : KDC-W5031Y E3 : KDC-W531Y M2 : KDC-MP5029
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

MECHANISM UNIT (X92-4850-00)

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
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							

SPECIFICATIONS

KDC-MP5029

FM

Frequency Range (Frequency Step)

..... 87.5MHz~108.0MHz (50kHz)

..... 87.9MHz~107.9MHz (200kHz)

Channel Space Selection 50kHz/200kHz

Usable Sensitivity (S/N : 30dB) 9.3dBf (0.8μV/75Ω)

Quieting Sensitivity (S/N : 50dB) 15.2dBf (1.6μV/75Ω)

Frequency Response (±3.0dB) 30Hz~15kHz

S/N 70dB (MONO)

Selectivity ≥80dB (±400kHz)

Stereo Separation 40dB (1kHz)

AM (MW)

Frequency Range (Frequency Step) 531kHz~1611kHz (9kHz)

..... 530kHz~1700kHz (10kHz)

Channel Space Selection 9kHz/10kHz

Usable Sensitivity (S/N : 20dB) 28dBμV (25μV)

CD

Laser Diode GaAlAs

Digital Filter (D/A) 8 Times Over Sampling

D/A Converter 1 Bit

Spindle Speed 200rpm~500rpm (CLV)

Wow & Flutter Below Mesurable Limit

Frequency Response 10Hz~20kHz (±1dB)

Total Harmonic Distortion 0.01% (1kHz)

S/N Ratio 105dB (1kHz)

Dynamic Range 93dB

Channel Separation 96dB

MP3 Decode Compliant with MPEG-1/2 Audio Layer-3

WMA Decode Compliant with WINDOWS MEDIA AUDIO

Preout Level / Load 2000mV/10kΩ (CD/CD-CH)

Preout Impedance ≤600Ω

Amplifier

Maximum Power 50W x 4

Full Bandwidth Power (at less than 1% THD) 22W x 4

Tone

Bass 100Hz±10dB

Middle 1kHz±10dB

Treble 10kHz±10dB

General

Operating Voltage (11V~16V allowable) 14.4V

Current Consumption 10A

Installation Size (Width) 182mm

(Height) 53mm

(Depth) 155mm

Weight 1.20kg (2.64lbs)

KDC-W5031/W5031Y/W531Y

FM

Frequency Range (Frequency Step)

..... 87.5MHz~108.0MHz (50kHz)

Usable Sensitivity (S/N : 26dB) 0.7μV/75Ω

Quieting Sensitivity (S/N : 46dB) 1.6μV/75Ω

Frequency Response (±3.0dB) 30Hz~15kHz

S/N 65dB (MONO)

Selectivity ≥80dB (±400kHz)

Stereo Separation 35dB (1kHz)

AM (MW)

Frequency Range (Frequency Step) 531kHz~1611kHz (9kHz)

Usable Sensitivity (S/N : 20dB) 25μV

LW

Frequency Range 153kHz~281kHz

Usable Sensitivity (S/N : 20dB) 45μV

CD

Laser Diode GaAlAs

Digital Filter (D/A) 8 Times Over Sampling

D/A Converter 1 Bit

Spindle Speed 200rpm~500rpm (CLV)

Wow & Flutter Below Mesurable Limit

Frequency Response 10Hz~20kHz (±1dB)

Total Harmonic Distortion 0.01% (1kHz)

S/N Ratio 105dB (1kHz)

Dynamic Range 93dB

Channel Separation 96dB

MP3 Decode Compliant with MPEG-1/2 Audio Layer-3

WMA Decode Compliant with WINDOWS MEDIA AUDIO

Preout Level / Load

KDC-W5031/W5031Y 2000mV/10kΩ (CD/CD-CH)

KDC-W531Y 2000mV/10kΩ (CD)

Preout Impedance ≤600Ω

Amplifier

Maximum Power

KDC-W5031/W5031Y 50W x 4

KDC-W531Y 45W x 4

Power (DIN45324, +B=14.4V)

KDC-W5031/W5031Y 30W x 4

KDC-W531Y 28W x 4

Tone

Bass 100Hz±10dB

Middle 1kHz±10dB

Treble 10kHz±10dB

General

Operating Voltage (11V~16V allowable) 14.4V

Current Consumption 10A

Installation Size (Width) 182mm

(Height) 53mm

(Depth) 155mm

Weight 1.20kg (2.64lbs)

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

