

X34-56xx-xx

SERVICE MANUAL

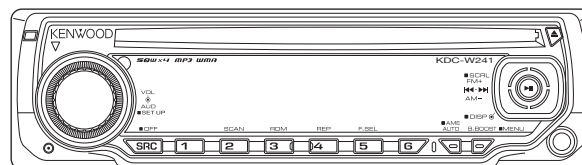
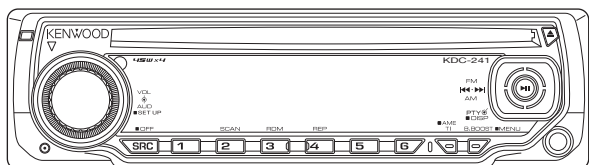
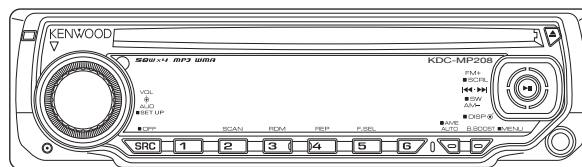
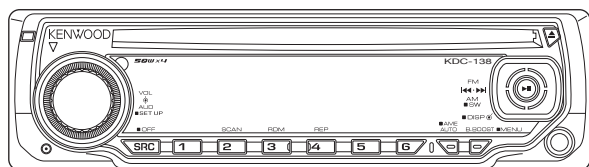
KENWOOD

Kenwood Corporation

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B53-0608-00 (N) 0

ELECTRIC UNITs for the following 2008 CD receivers which are produced after November of 2007 are changed as follows. This service manual is only for the changed new ELECTRIC UNITs.

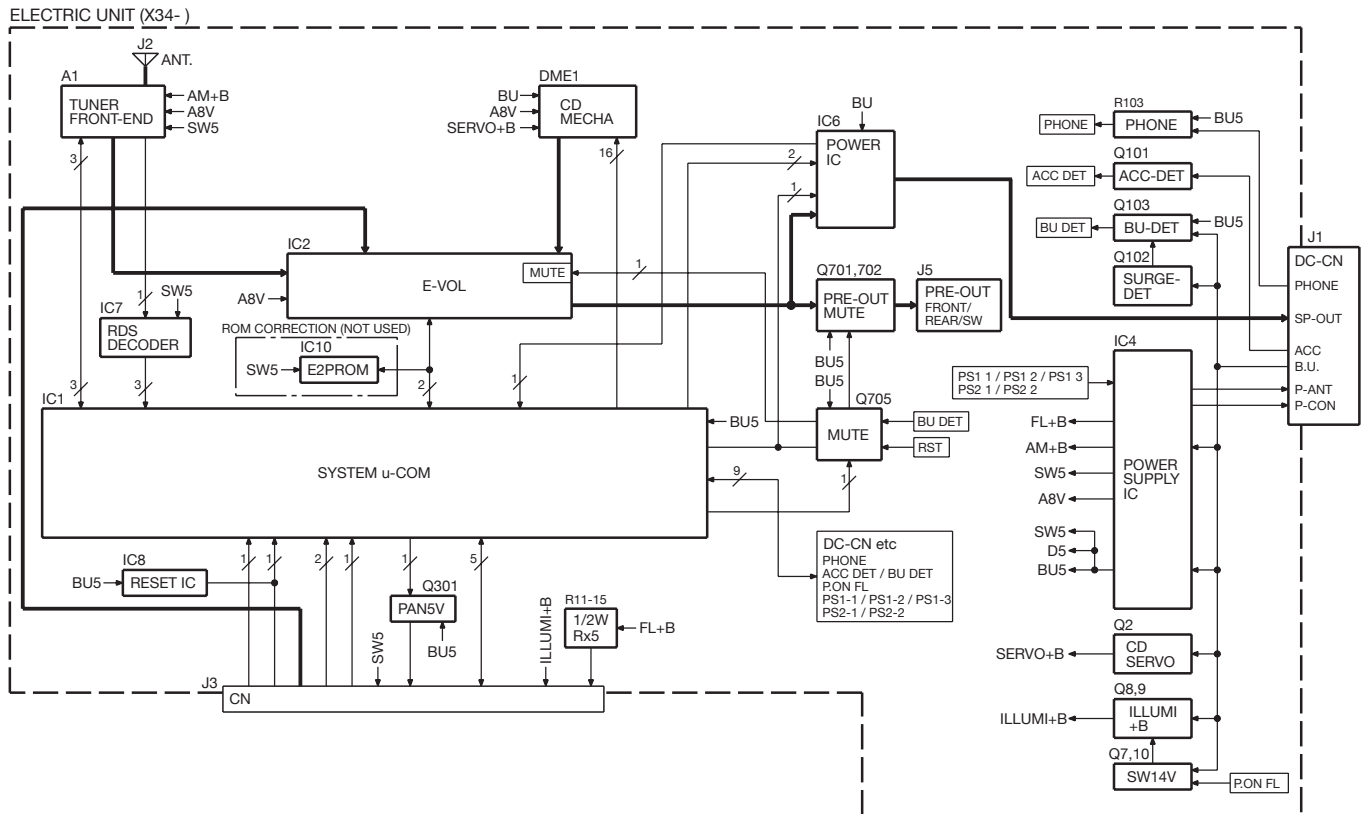
DESTI-NATION	DISPLAY TYPE	MODEL	OLD X34-	NEW X34-	SERIAL No. FROM	ORIGINAL SERVICE MANUAL
K	7-SEG LCD	KDC-138	X34-5640-10	X34-5670-10	71109301 / 71200001	KDC-138/.....
K	7-SEG LCD	KDC-138CR	X34-5640-11	X34-5670-11	71200001	KDC-138/.....
K	14-SEG VFD	KDC-MP208	X34-5640-14	X34-5670-14	71103501 / 71208401	KDC-MP208/.....
K	14-SEG VFD	KDC-MP238	X34-5640-12	X34-5670-12	71106402 / 80100001	KDC-MP208/.....
K	14-SEG VFD	KDC-MP238CR	X34-5640-13	X34-5670-13	71200001 / 80100001	KDC-MP208/.....
M	7-SEG LCD	KDC-139	X34-5640-21	X34-5670-21	71110201	KDC-138/.....
M	7-SEG LCD	KDC-139S	X34-5640-21	X34-5670-21	-	KDC-138/.....
M	14-SEG VFD	KDC-MP239	X34-5640-23	X34-5670-23	71200001	KDC-MP208/.....
M	14-SEG VFD	KDC-MP3039	X34-5640-23	X34-5670-23	-	KDC-MP208/.....
M	14-SEG VFD	KDC-MP339	X34-5640-23	X34-5670-23	-	KDC-MP208/.....
M	14-SEG VFD	KDC-MP339S	X34-5640-23	X34-5670-23	-	KDC-MP208/.....
M	14-SEG VFD	KDC-MP439	X34-5640-22	X34-5670-22	V1100701	KDC-MP208/.....
E	14-SEG VFD	KDC-241SA	X34-5652-70	X34-5682-70	V1101001	KDC-241SA/.....
E	14-SEG VFD	KDC-241SG	X34-5652-70	X34-5682-70	W0100001	KDC-241SA/.....
E	14-SEG VFD	KDC-W241AY/GY	X34-5652-71	X34-5682-71	V1110501	KDC-W241AY/.....
E	14-SEG VFD	KDC-W3041A/G	X34-5652-72	X34-5682-74	V1101601	KDC-W241AY/.....
E	14-SEG VFD	KDC-W3041AY/GY	X34-5652-73	X34-5682-75	V1102501	KDC-W241AY/.....
E	14-SEG VFD	KDC-W312A/G	X34-5652-72	X34-5682-74	V1101601	KDC-W241AY/.....
E	14-SEG VFD	KDC-W312AY/GY	X34-5652-73	X34-5682-75	V1102501	KDC-W241AY/.....
E	14-SEG VFD	KDC-W312SAY	X34-5652-73	X34-5682-75	V1102501	KDC-W241AY/.....



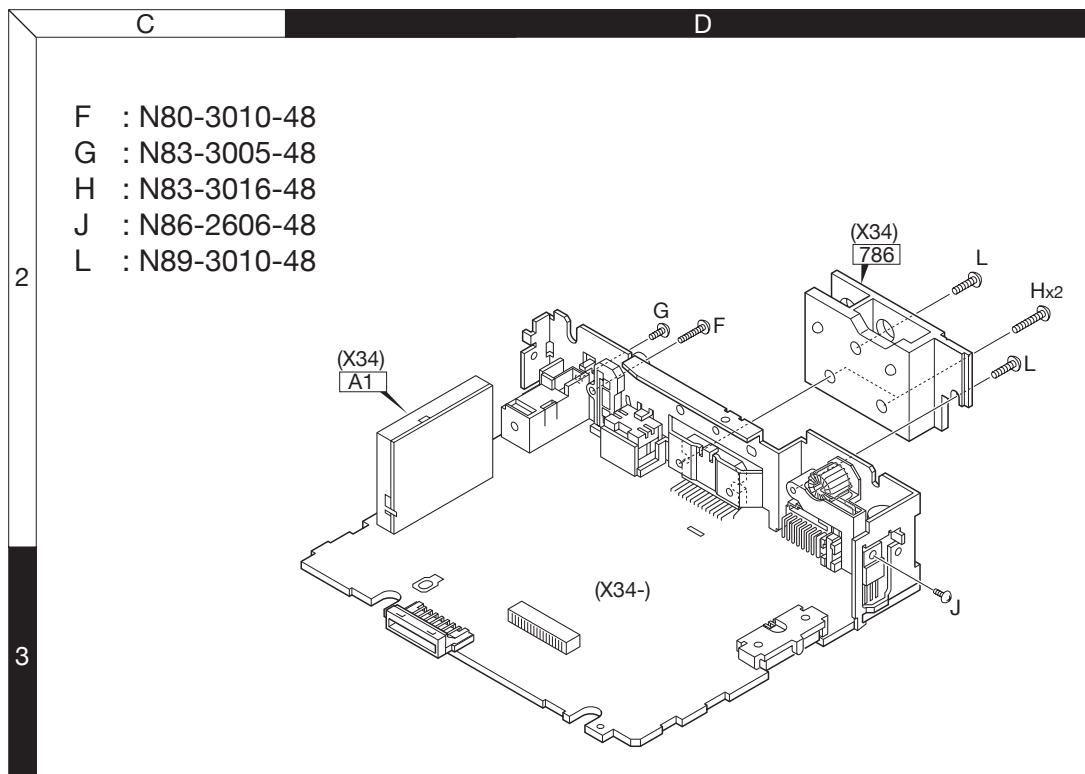
This product uses Lead Free solder.

This product complies with the **RoHS** directive for the European market.

BLOCK DIAGRAM



EXPLODED VIEW (UNIT)



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

COMPONENTS DESCRIPTION

● ELECTRIC UNIT (X34-56xx-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	System μ -COM	Controls FM/AM tuner, the changer, CD mechanism, panel, volume and tone.
IC2	E-VOL	Controls the source, volume and tone.
IC4	Power Supply IC	Outputs 5Vx2, 8.1Vx2, 10.2V, P-CON and P-ANT.
IC6	Power IC	Amplifies the front L/R and the rear L/R to 50W maximum.
IC7	RDS IC	RDS decoder.
IC8	Reset IC	Lo when detection voltage goes below 3.6V.
Q2	Servo+B AVR	When Q3's base goes Hi, Servo+B AVR outputs 7.5V.
Q3	Control SW for Servo+B	ON when the base goes Hi.
Q7	VFD+B SW	ON when the base goes Hi.
Q8	VFD+B AVR	When Q9's base goes Hi, Servo+B AVR outputs 10.5V.
Q9	Control SW for VFD+B	ON when the base goes Hi.
Q10	VFD+B SW	ON when Q7's base goes Hi.
Q11	14V SW	ON when the base goes Hi.
Q12	14V SW	ON when the base goes Lo.
Q13	Control SW for IC4	ON when the base goes Hi.
Q14	Control SW for IC4	ON when the base goes Lo.
Q101	ACC DET	ON when the base goes Hi during ACC is applied.
Q102	Serge DET	When the base goes Hi, surge voltage is detected.
Q103	BU DET	ON when the base goes Hi during BU is applied.
Q104,105	Mute Control	ON when the base goes Hi.
Q301	Panel 5V SW	ON when the base goes Lo.
Q701~704	Pre-out Mute SW	When a base of the 4 transistors goes Hi, pre-out is muted.
Q705	Mute Driver for Pre-out	ON when the base goes Lo.
Q801	Electric Discharge Circuit for C805 (SVR)	ON when the base goes Lo.

X34-56xx-xx

MICROCOMPUTER'S TERMINAL DESCRIPTION

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

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing Operation Description
1	LX DATA M	I/O	Data to slave unit		Pull-down (GND)
2	LX CLK	I/O	LX-BUS clock		125k~65kHz
3~5	NC	-	Not used		Output L fixed
6	REMO	I	Remote control signal input		Detects pulse width
7	NC	-	Not used		Output L fixed
8	BYTE	-	Memory extended bus width setting		Connects to VSS
9	CNVSS	-			Connects to VSS
10	XCIN	-	32.768kHz		
11	XCOUT	-	32.768kHz		
12	RESET	-			L: Reset
13	XOUT	-	10.0MHz		
14	VSS	-			
15	XIN	-	10.0MHz		
16	VCC1	-			
17	NMI	I			Connects to VCC
18	CN DET	I	Panel communication detection		H: Panel detached, L: Panel attached
19,20	NC	-	Not used		Output L fixed
21	ROMCOR DET	I	E2PROM writing request		H: Writing
22,23	NC	-	Not used		Output L fixed
24	PON FL	O	Key illumination power supply control		ON: H, OFF: L
25	NC	-	Not used		Output L fixed
26	PON PANEL	I/O	Panel 5V control		ON: L, Momentary power down/Panel detached: Hi-Z, 11 minutes after ACC OFF: Hi-Z
27,28	NC	-	Not used		Output L fixed
29	AUD SCL	I/O	E-VOL clock output		
30	AUD SDA	I/O	E-VOL data input/output		
31	VFD SYS DATA	O	VFD data output		
32	VFD PAN DATA	I	VFD data input		
33	VFD CLK	O	VFD clock output		125kHz
34	VFD BLK	O	VFD data blanking output		H: Reset cancelled, L: Reset, Momentary power down /Panel detached: L, 11 minutes after ACC OFF: L
35	CD SI	O	CD mechanism serial output		
36	CD SO	I	CD mechanism serial input		
37	BUCK	O	Serial clock output		1MHz
38	CD LOS SW	I	CD loading detection		
39	PIO0	I	Communication request from mechanism DSP		H: Data request
40	CD SRAMSTB	O	1M-bit SRAM standby		H: SRAM standby
41	EPM	I	Flash EPM input		Connects to VSS
42	CD LOE LIM SW	I	CD detection (Chucking SW)		H: Loading completed, L: No disc

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing Operation Description
43	PON CD	O	CD mechanism power supply control		H: Power ON
44	CD LOEJ	I/O	CD motor control	①	Refer to the truth value table
45	CD MOTOR	I/O	CD motor control	①	Refer to the truth value table
46	VFD CE	O	VFD control request		
47	CD DRIVEMUTE	O	Motor driver mute output		
48	CD CCE	O	CD mechanism chip enable		
49	NC	-	Not used		
50	CD MRST	O	CD mechanism μ -com reset		H: Normal, L: Reset
51~53	NC	-	Not used		Output L fixed
54	CD MUTE	I	CD mute request		L: Mute request
55	CD DISC12 SW	I	12cm disc detection		Pull-up (B.U.)
56	ROTARY CCW	I	VOL key input		Detects pulse width
57	ROTARY CW	I	VOL key input		Detects pulse width
58~61	NC	-	Not used		Output L fixed
62	VCC2	-			
63	NC	-	Not used		Output L fixed
64	VSS	-			
65	NC	-	Not used		
66	TUN IFC OUT	I	Front-end IFC-OUT input		H: Station found, L: No station
67	NC	-	Not used		
68	MUTE	I/O	Mute		L: Mute OFF, Hi-Z: Mute ON
69	NC	-	Not used		
70	LX RST	O	Forced reset to slave unit		H: Reset, L: Normal
71	LX CON	O	Start-up request to slave unit		H: Slave unit ON, L: Slave unit OFF
72	LX MUTE	I	Mute request from slave unit		H: Mute ON, L: Mute OFF
73	LX REQ M	O	Communication request to slave unit		
74	NC	-	Not used		
75	LX REQ S	I	Communication request from slave unit		Pull-down (GND)
76	PWIC SVR	O	SVR discharging circuit		During 500ms after power OFF and momentary power down: H, Since then: L
77	PWIC STBY	O	Power IC standby control		Power ON: H, Power OFF: L
78	PWIC MUTE	O	Power IC mute		STANDBY source/Momentary power down: L, TEL mute: L
79	ACC DET	I	ACC power supply detection		ACC found: L, No ACC: H
80	BU DET	I	Detection of momentary power down		BU found: L, No BU/Momentary power down: H (Operates after less than 4ms after momentary power down is detected)
81~83	NC	O	Not used		Output L fixed
84	TUN SMETER	I	S-meter input		
85	TYPE1	I	Destination switching		
86	TYPE2	I	Destination switching		

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MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing Operation Description
87	PWIC DC DET	I	DC offset detection		If DC offset is found 20 times in 100ms with condition of over 1.0V, it will be judged as DC offset detected.
88	LINE MUTE	I	Line mute detection		TEL mute: Below 1V, NAVI mue: Over 2.5V
89	NC	-	Not used		
90	PS2 2	O	Power supply IC control	④	Refer to the truth value table
91	PS2 1	O	Power supply IC control	④	Refer to the truth value table
92	PS1 1	O	Power supply IC control	④	Refer to the truth value table
93	PS1 2	O	Power supply IC control	④	Refer to the truth value table
94	PS1 3	O	Power supply IC control	④	Refer to the truth value table
95	NC	-	Not used		Output L fixed
96	AVSS	-			
97	REF CON	O	VREF control		Connects to VREF
98	VREF	-			
99	AVCC	-			
100	LX DATA S	I	Data from slave unit		Pull-down (GND)

• Truth value table

① CD motor control

	CD motor	CD loading/eject
Stop	L	L
Load	H	L
Eject	H	H
Brake	H	Hi-z

④ Power supply IC (IC4) control

SEL1 (Pin 10)

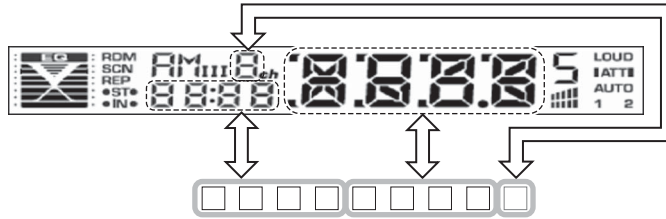
PS1-2	PS1-3	PS2-1	ILLUMI	P-CON	P-ANT
L	L	L	OFF	OFF	OFF
L	L	H	ON	OFF	OFF
H	L	H	ON	ON	OFF
H	H	H	ON	ON	ON

SEL2 (Pin 11)

PS1-1	PS2-2	AUDIO/SW5	AM
L	L	OFF	OFF
H	L	ON	OFF
H	H	ON	ON

TEST MODE (7-SEG LCD)

■ Example



Key	Description of display	Description
5	[E] [J] [C] [X] [X] [X] [X] [X] []	Disc EJECT times display. MAX 65535 (times)
■5	Disc EJECT times display	While disc EJECT times is displayed, press and hold for 2 seconds or longer to clear disc EJECT times.

A symbol “■” in the key column indicates that the key should be pressed and held for 1 second or longer.

■ How to enter the test mode

Procedure	Note
Press and hold the [1] key and [3] key and reset.	

All lamps blink when it is detected that the sub-clock resonator is disconnected.

When having started up in the test mode, change the LINE MUTE inhibition time from 10 seconds to 1 second.

When operating in the test mode, even if a DC offset error occurs, detection information is not written in the E2PROM.

Forced disc ejection is prohibited in the test mode.

■ How to clear the test mode

Procedure	Note
Reset, momentary power down, ACC OFF, Power OFF, Panel detached.	Clearing the test mode

■ Test mode default condition

Description	Default values
Source	STANDBY
Display	Display lights are all turned on.
Volume	-10dB (“30” is displayed.)
Bass Boost	OFF
CRSC	OFF regardless of having/not having the switching function.
AUX	ON (Only model equipped with AUX)
System Q	NATURAL (FLAT)
Preout	Rear

TEST MODE (7-SEG LCD)

■ Special displays when all lights are on in STANDBY source

Key	Description of display		Description
Common	All lights ON.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	All lights ON.
1	Destination terminal condition indication	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> T P 1 1 <input type="checkbox"/>	“TYPE” indicates system μ -com (IC1) destination, and shows real-time condition of the destination terminal.
	Development ID condition indication	<input type="checkbox"/> 8 : 0 0 7 0 1 K <input type="checkbox"/>	Development ID – Version (system μ -com: IC1)
2	Serial No. display	0 0 0 0 0 0 0 0 <input type="checkbox"/>	Serial No. is displayed (8 digits)
3	Power ON time display	P o n <input type="checkbox"/> 0 H X X <input type="checkbox"/>	00~50 is displayed for “XX”. When less than 1 hour, displayed by increments of 10 minutes.
		P o n X X X X X <input type="checkbox"/>	00001~10922 is displayed for “XXXXX”. MAX 10922 (hours)
■3			When Power ON time is displayed, press and hold for 2 seconds or longer to clear Power ON time.
4	Disc operation time display	P L y <input type="checkbox"/> 0 H X X <input type="checkbox"/>	00~50 is displayed for “XX”. When less than 1 hour, displayed by increments of 10 minutes.
		P L y X X X X X <input type="checkbox"/>	00001~10922 is displayed for “XXXXX”. MAX 10922 (hours)
■4			While the disc operation time is displayed, press and hold for 2 seconds or longer to clear the disc operation time. (Cleared only for displayed media.)
5	Disc EJECT times display	E J C X X X X X <input type="checkbox"/>	Disc EJECT times display. MAX 65535 (times)
■5			While disc EJECT times is displayed, press and hold for 2 seconds or longer to clear disc EJECT times.
6	Panel open/close times display	P C <input type="checkbox"/> X X X X X <input type="checkbox"/>	PANEL open/close times display. MAX 65535 (times)
■6			Press the key for more than 2 seconds while the PANEL open/close count is displayed and PANEL open/close count is cleared.
FM	ROM correction version display	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 0 1 2 3 <input type="checkbox"/>	The number is the ROM correction version number.
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> E R <input type="checkbox"/> <input type="checkbox"/>	When E2PROM is not installed.
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> - - - - <input type="checkbox"/>	When not written in yet.
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> o o o o <input type="checkbox"/>	When data not matched. (due to the difference in versions)
▶▶I	Audio data initialization	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> I n I T <input type="checkbox"/>	AUDIO setting value is re-set to the test mode default value.
I◀◀	Forced Power OFF information display	P O F F <input type="checkbox"/> - - - <input type="checkbox"/>	No forced power OFF
		P O F F <input type="checkbox"/> P n L <input type="checkbox"/>	Forced power OFF by communication error between system μ -com and panel.
■I◀◀			While the forced power OFF data is displayed, press and hold for 2 seconds to clear the data.
▶II	CD information display mode ON/OFF	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	For the display contents, refer to “CD information display mode” in the next section.
■▶II			While in CD information display mode, press and hold for 2 seconds or longer to clear all CD information.

TEST MODE (7-SEG LCD)

• CD information display mode

Key		Description of display		Description
FM (forward rotation) AM (reverse rotation)		I2C communication status	<div><div></div><div></div><div></div><div></div><div>I</div><div>C</div><div>O</div><div>K</div><div></div></div>	I2C communication OK
			<div><div></div><div></div><div></div><div></div><div>I</div><div>C</div><div>E</div><div>R</div><div></div></div>	I2C communication NG
	◀◀ / ▶▶	CD mechanism error log display	<div><div></div><div>1</div><div>:</div><div>X</div><div>X</div><div>M</div><div>-</div><div>E</div><div>R</div><div></div></div>	Mechanism error log 1 (Latest) XX: Error number. “-” is displayed in case there is no error.
			<div><div></div><div>2</div><div>:</div><div>X</div><div>X</div><div>M</div><div>-</div><div>E</div><div>R</div><div></div></div>	Mechanism error log 2 (Latest) XX: Error number. “-” is displayed in case there is no error.
			<div><div></div><div>3</div><div>:</div><div>X</div><div>X</div><div>M</div><div>-</div><div>E</div><div>R</div><div></div></div>	Mechanism error log 3 (Latest) XX: Error number. “-” is displayed in case there is no error.
	◀◀ / ▶▶	CD Load error information display	<div><div></div><div>1</div><div>:</div><div>X</div><div>X</div><div>L</div><div>D</div><div>E</div><div>R</div><div></div></div>	Load error switch 1 XX: Number of errors. “-” is displayed in case there is no error.
			<div><div></div><div>2</div><div>:</div><div>X</div><div>X</div><div>L</div><div>D</div><div>E</div><div>R</div><div></div></div>	Load error switch 2 XX: Number of errors. “-” is displayed in case there is no error.
	◀◀ / ▶▶	CD Ejection error information display	<div><div></div><div>1</div><div>:</div><div>X</div><div>X</div><div>E</div><div>J</div><div>E</div><div>R</div><div></div></div>	Ejection error switch 1 XX: Number of errors. “-” is displayed in case there is no error.
			<div><div></div><div>2</div><div>:</div><div>X</div><div>X</div><div>E</div><div>J</div><div>E</div><div>R</div><div></div></div>	Ejection error switch 2 XX: Number of errors. “-” is displayed in case there is no error.
			<div><div></div><div>3</div><div>:</div><div>X</div><div>X</div><div>E</div><div>J</div><div>E</div><div>R</div><div></div></div>	Ejection error switch 3 XX: Number of errors. “-” is displayed in case there is no error.
			<div><div></div><div>4</div><div>:</div><div>X</div><div>X</div><div>E</div><div>J</div><div>E</div><div>R</div><div></div></div>	Ejection error switch 4 XX: Number of errors. “-” is displayed in case there is no error.
	◀◀ / ▶▶	CD time code error count data display (Missing counts)	<div><div></div><div></div><div></div><div></div><div>L</div><div>O</div><div>S</div><div>E</div><div></div></div>	CD time code error count data (Missing counts) mode display.
			<div><div></div><div></div><div>:</div><div>X</div><div>X</div><div>C</div><div>D</div><div>D</div><div>A</div><div></div></div>	Number of CD-DA count errors XX: Number of errors. “-” is displayed in case there is no error.
	◀◀ / ▶▶	CD time code error count data display (count not updated)	<div><div></div><div></div><div></div><div></div><div>S</div><div>T</div><div>A</div><div>Y</div><div></div></div>	CD time code error count data (count not updated) mode display.
			<div><div></div><div></div><div>:</div><div>X</div><div>X</div><div>C</div><div>D</div><div>D</div><div>A</div><div></div></div>	Number of CD-DA count errors XX: Number of errors. “-” is displayed in case there is no error.

■ Test mode specifications in TUNER source

Error is found in front-end (A1), etc. if indications below is displayed while in tuner source.

Status	Display	Description
Front-end (A1) E2PROM data error	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> E 2 E R <input type="checkbox"/>	Front-end (A1) E2PROM is still the default (unspecified) value.
Front-end (A1) communication error	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> I C E R <input type="checkbox"/>	Communication with front-end (A1) is not possible.
Destination mismatch	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> T P E R <input type="checkbox"/>	When destination is mismatch between front-end (A1) E2PROM and the product.

• TUNER preset operation

Key	Description of display	Description
4	Preset function <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 9 8 . 3 <input type="checkbox"/>	Change to 98.3MHz with the preset key [4].

TEST MODE (7-SEG LCD)

• **K3I forced switching**

Every time when [6] key is pressed in tuner FM source, switched in the following order: AUTO → Forced WIDE → Forced MIDDLE → Forced NARROW → AUTO. Default status is AUTO, and displayed as shown below.

Key	Description of display		Description
6	K3I Forced switching	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> A 9 8 . 1 <input type="checkbox"/> <input type="checkbox"/>	AUTO (1)
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 3 9 8 . 1 <input type="checkbox"/> <input type="checkbox"/>	Forced WIDE (2)
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 2 9 8 . 1 <input type="checkbox"/> <input type="checkbox"/>	Forced MIDDLE (3)
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 9 8 . 1 <input type="checkbox"/> <input type="checkbox"/>	Forced NARROW (4)

• **FST adjustment mode**

Perform FST soft-mute adjustment.

Key	Note
■▶▶	Enter the FST adjustment mode. (Press for 1 second or longer.)

Operations in the FST adjustment mode are as follows:

Key	Description of display		Description
FM (UP) AM (DOWN)	◀◀ / ▶▶	Soft-mute adjustment <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> S D - F <input type="checkbox"/>	0 ↔ 7
		Seek Stop Level adjustment (Auto) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> A T n <input type="checkbox"/>	0.00 (V) ↔ 5.00 (V). Normal (Local OFF)
		Seek Stop Level adjustment (Auto) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> A T L <input type="checkbox"/>	0.00 (V) ↔ 5.00 (V). Normal (Local ON)
	◀◀ / ▶▶	Seek Stop Level adjustment (Manual) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> M N n <input type="checkbox"/>	0.00 (V) ↔ 5.00 (V). Normal (Local OFF)
	◀◀ / ▶▶	Seek Stop Level adjustment (Manual) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> M N L <input type="checkbox"/>	0.00 (V) ↔ 5.00 (V). Normal (Local ON)
■▶▶		Adjustment value memory <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> W R T <input type="checkbox"/>	Displays the data that has been written in the E2PROM when pressing the key for 2 seconds or longer.
▶▶		Mode clear <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> A 9 8 . 3 <input type="checkbox"/>	Clear the FST adjustment mode. (Returns to normal display and the test mode is retained.)

Switch Local Seek ON or OFF by briefly pressing [AUTO]/[TI] key when the Local Seek ON/OFF switching is allowed in the band.

After completing the FST adjustment, if you wish to clear the test mode, you can do this using the reset button.

■ **Test mode specifications in CD source**• **Procedure in CD-DA media (KTD-02A)**

Key	Description of display		Description
▶▶	Track up procedure		Every time pressed, jumps to the track shown below. No.9 → No.15 → No.10 → No.11 → No.12 → No.13 → No.22 → No.14 → No.9 (recursive) But in case the disc has 8 tracks or less, playback starts with track No.1.
◀◀	Track down procedure		Goes down by 1 track from the currently played track.
1	Jump procedure		Jump to No. 28 (Scratch 0.7mm for MUSIC line vibration testing)
2	Jump procedure		Jump to No. 14 (Blurring surface disc TCD-731RA Tr14)

TEST MODE (7-SEG LCD)

Key	Description of display		Description
3	Information display Mechanism model name Mechanism version	6 C 0 0 0 0 0 0 0	Display of Mechanism model name and Mechanism version. (When key is pressed while the display in the left is being shown, returns to normal display.)
6	Jump procedure		Jump to No. 15. Set the volume value to "25". (For 20Hz 0dB DC protection false-operation FCT checking)

■ Audio-related test mode

Procedure	Note
Press the [AUD] key (main unit) Press the [AUD] and [*] keys (Remote control)	Enter audio adjustment mode (the initial item should be Fader, and then, Balance → Bass Level → Middle Level → Treble Level → SW Level → System Q → V-Offset → LPF Sub Woofer.

About audio adjustment items (include both Audio Function Mode and Audio Setup Mode)

Procedure	Item	Procedure	Description
For item forwarding procedure, press [AUD] key and [FM] key	Fader	[VOL] knob and [◀◀ / ▶▶] key	Adjust to 3 steps of R15 ↔ 0 ↔ F15. (Default value: 0)
	Balance	[VOL] knob and [◀◀ / ▶▶] key	Adjust to 3 steps of L15 ↔ 0 ↔ R15. (Default value: 0)
	Bass Level	[VOL] knob and [◀◀ / ▶▶] key	Adjust to 3 steps of -8 ↔ 0 ↔ +8. (Default value 0)
	Middle Level	[VOL] knob and [◀◀ / ▶▶] key	Adjust to 3 steps of -8 ↔ 0 ↔ +8. (Default value 0)
	Treble Level	[VOL] knob and [◀◀ / ▶▶] key	Adjust to 3 steps of -8 ↔ 0 ↔ +8. (Default value 0)
	LPF Sub woofer	[VOL] knob and [◀◀ / ▶▶] key	Adjust to 2 steps of 80Hz ↔ Through. (Default value: Through) (Only in models with Sub Woofer output)
	Volume Offset	[VOL] knob and [◀◀ / ▶▶] key	Adjust to 2 steps of -8 ↔ 0. (Default value 0) (Other than model with internal AUX) Adjust to 3 steps of -8 ↔ 0 ↔ +8. (Default value 0) (Only models with internal AUX)

Procedure	Note
Press the [B.BOOST] key for 1 second or longer	Switch Bass Boost (Note: Front key functions as MENU.)

■ [ATT] key operation

Procedure	Note
In the TUNER source, press [▶▶] key	ATT OFF/ON

■ MENU-related test mode

Procedure	Note
Press the [B.BOOST] key (main unit) Press the [DNPP/SBF] and [DIRECT] keys (Remote control)	Continuous forwarding by remote control is prohibited

■ Backup current measurement

Procedure	Note
While ACC OFF (Back Up ON), Reset	MUTE terminal is OFF after 2 seconds, not after 15 seconds. (During this time, the CD mechanism does not function.)

TEST MODE (7-SEG LCD)

■ PREOUT switching (KDC-138/139/139S only)

Procedure	Note
In the STANDBY source, press and hold [AUTO] key for 1 second or longer	Switches PREOUT

■ LCD (ED1) short check

Procedure	Note
In the STANDBY source, press [ATT] key	All lights are off → Turns on odd and even terminals alternatively every 125ms (terminals that have a maximum number of grids) → Turns on only the odd terminals → Turn on only the even terminals →

■ Clearing CD mechanism information / Service information / DC offset error information (Clearing E2PROM data)

Status	Display	Description
While pressing and holding [2] key and [5] key, reset-start.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> <input type="checkbox"/> O <input type="checkbox"/> <input type="checkbox"/>	At normal termination
	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> <input type="checkbox"/> - <input type="checkbox"/> <input type="checkbox"/>	At abnormal termination

This mode is cancelled by resetting. (The last screen will not be retained.)

Data to be cleared is shown below.

CD mechanism information	I2C communication status display
	CD mechanism error log display
	Displays CD loading error data
	Displays CD EJECT error data
	Displays CD time code count error data (missing count)
	Displays CD time code count error data (count not updated)
Service Information	Power ON time display
	CD operation time display
	CD EJECT times display
	PANEL open/close times display
	Forced Power OFF information display
DC offset error information	DC offset error 1 display (Provides information on whether there is an improper connection or another error)
	DC offset error 2 display (Provides information on the number of capacitor leaks)

■ Clearing DC offset error detection data (E2PROM data clearing)

Procedure	Note
While pressing and holding [3] key and [6] key, reset-start.	Entering DC offset error display mode.

Procedure	Display	Description
Press and hold the [3] and [6] keys, and reset-start	<input type="checkbox"/> d <input type="checkbox"/> C <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> E <input type="checkbox"/> R <input type="checkbox"/> <input type="checkbox"/>	When DC offset error is detected (when either one of capacitors is leaking, or an improper connection or another error is detected)
	<input type="checkbox"/> d <input type="checkbox"/> C <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> O <input type="checkbox"/> K <input type="checkbox"/> <input type="checkbox"/>	When DC offset error is not detected (when none of capacitors leak, no improper connection or other error is detected)
1	<input type="checkbox"/> d <input type="checkbox"/> C <input type="checkbox"/> 1 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> E <input type="checkbox"/> R <input type="checkbox"/> <input type="checkbox"/>	When improper connection or other DC offset errors are detected.
	<input type="checkbox"/> d <input type="checkbox"/> C <input type="checkbox"/> 1 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> O <input type="checkbox"/> K <input type="checkbox"/> <input type="checkbox"/>	When improper connection or other DC offset errors are not detected.

TEST MODE (7-SEG LCD)

Procedure	Display	Description
■1	□ d □ C 1 □ □ □ O K □	When detecting improper connection or other DC offset errors, clears detection data. (Clear E2PROM)
2	□ d □ C 2 □ □ □ 4 □	When detecting capacitor leak, provides information on the number of capacitor leaks. (0~4)
■2	□ d □ C 2 □ □ □ 0 □	When detecting capacitor leak, clears the number of capacitor leaks. (Clear E2PROM)

This mode is cancelled by resetting. (The last screen will not be retained.)

■ FM/AM channel space switching (except model for European market)

Procedure	Note
While Power OFF, press and hold [1] key and [5] key, and press [SRC] key to Power ON	FM200kHz/AM10kHz ↔ FM50kHz/AM9kHz (Except KDC-138CR) FM50kHz/AM10kHz ↔ FM200kHz/AM10kHz (KDC-138CR)

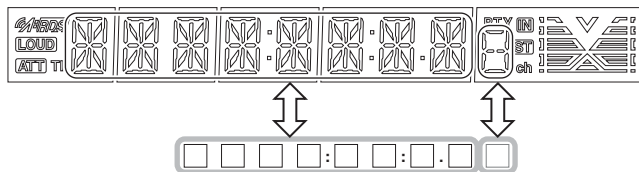
■ ROM data transfer

When replacing front-end (A1), this function is used to transfer E2PROM data (ROM correction, security and other data) to front-end (A1) to E2PROM of to mother unit (X34-), used for saving data, and, after completing replacement of front-end (A1), to recover data from the E2PROM of the mother unit (X34-), and for saving data to the new front-end (A1). Refer to “ROM data transfer processes” on the next page for details on front-end (A1) replacement procedures and on the data to be transferred.

Procedure	Display	Description
While pressing and holding [1] key and [3] keys, reset-start	□ □ □ □ : □ □ □ □	All lights ON.
Press [B.BOOST] key (MENU)	□ □ □ □ R E A D □	MENU mode
Press [◀◀] key or [▶▶] key	□ □ □ □ R E A D □	Front-end (A1) → Mother unit (X34-). Data transfer processing.
	□ □ □ □ W R T □	Mother unit (X34-) → Front-end (A1). Data transfer processing.
(In the above ROM READ status), ■[▶▶] key for 2 seconds or longer	□ □ □ □ R - □ □	Front-end (A1) → Mother unit (X34-). ROM data is being transferred.
	□ □ □ □ R - O K □	Front-end (A1) → Mother unit (X34-). ROM correction transfer, security and other data is OK.
	□ □ □ □ R - 0 2 □	Front-end (A1) → Mother unit (X34-). Transfer of security and other data is OK.
	□ □ □ □ R - E R □	Front-end (A1) → Mother unit (X34-). ROM data transfer is NG.
(In the above ROM WRT status), ■[▶▶] key for 2 seconds or longer	□ □ □ □ W - □ □	Mother unit (X34-) → Front-end (A1). ROM data is being transferred.
	□ □ □ □ W - O K □	Mother unit (X34-) → Front-end (A1). ROM correction, security and other data transfer is OK.
	□ □ □ □ W - 0 1 □	Mother unit (X34-) → Front-end (A1). ROM correction data transfer is OK.
	□ □ □ □ W - 0 2 □	Mother unit (X34-) → Front-end (A1). Transfer of security and other data is OK.
	□ □ □ □ W - E R □	Mother unit (X34-) → Front-end (A1). ROM data transfer is NG
(In every status of ROM data [B.BOOST] transfer processing)	□ □ □ □ : □ □ □ □	Clear from ROM correction data transfer processing

TEST MODE (14-SEG VFD)

■ Example



Key	Description of display	Description
5		Disc EJECT times display. MAX 65535 (times)
■5	Disc EJECT times display	While disc EJECT times is displayed, press and hold for 2 seconds or longer to clear disc EJECT times.

A symbol “■” in the key column indicates that the key should be pressed and held for 1 second or longer.

■ How to enter the test mode

Procedure	Note
Press and hold the [1] key and [3] key and reset.	While “- - - -” is displayed, power can be turned ON for only 30 minutes. (KDC-MP238/MP439 only)

All lamps blink when it is detected that the sub-clock resonator is disconnected.

Do not display “CODE_OFF”, “CODE_ON” or “CODE_NG” when Power is ON.

When having started up in the test mode, change the LINE MUTE inhibition time from 10 seconds to 1 second.

When operating in the test mode, even if a DC offset error occurs, detection information is not written in the E2PROM.

When operating in the test mode, CD mechanism error log information clear mode, and DC offset error detection information clear mode, do not perform DEMO mode operations.

Also, do not display DEMO ON/OFF option items in the MENU in STANDBY source in the above modes.

Forced disc ejection is prohibited in the test mode.

■ How to clear the test mode

Procedure	Note
Reset, momentary power down, ACC OFF, Power OFF, Panel detached.	Clearing the test mode

■ Test mode default condition

Description	Default values
Source	STANDBY
Display	Display lights are all turned on.
Volume	-10dB (“30” is displayed.)
Bass Boost	OFF
CRSC	OFF regardless of having/not having the switching function.
AUX	ON
System Q	NATURAL (FLAT)
Preout	Rear

TEST MODE (14-SEG VFD)

■ Special displays when all lights are on in STANDBY source

Key	Description of display		Description
Common	All lights ON.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	All lights ON.
1	Destination terminal condition indication	<input type="text"/> T <input type="text"/> Y <input type="text"/> P <input type="text"/> E : <input type="text"/> 1 <input type="text"/> 1 <input type="text"/> <input type="text"/> <input type="text"/>	“TYPE” indicates system μ -com (IC1) destination, and shows real-time condition of the destination terminal.
	Development ID condition indication	<input type="text"/> 8 <input type="text"/> 0 <input type="text"/> 4 <input type="text"/> A <input type="text"/> 2 <input type="text"/> - <input type="text"/> 5 <input type="text"/> . <input type="text"/> 0 <input type="text"/> 0	Development ID – Version (system μ -com: IC1)
2	Serial No. display	<input type="text"/> 0 <input type="text"/> 0 <input type="text"/> 0 <input type="text"/> 0 <input type="text"/> 0 <input type="text"/> 0 <input type="text"/> 0 <input type="text"/>	Serial No. is displayed (8 digits)
3	Power ON time display	<input type="text"/> P <input type="text"/> O <input type="text"/> N <input type="text"/> <input type="text"/> 0 <input type="text"/> H <input type="text"/> X <input type="text"/> X <input type="text"/>	00~50 is displayed for “XX”. When less than 1 hour, displayed by increments of 10 minutes.
		<input type="text"/> P <input type="text"/> O <input type="text"/> N <input type="text"/> X <input type="text"/> X <input type="text"/> X <input type="text"/> X <input type="text"/>	00001~10922 is displayed for “XXXXX”. MAX 10922 (hours)
■3			When Power ON time is displayed, press and hold for 2 seconds or longer to clear Power ON time.
4	Disc operation time display	<input type="text"/> C <input type="text"/> D <input type="text"/> T <input type="text"/> <input type="text"/> 0 <input type="text"/> H <input type="text"/> X <input type="text"/> X <input type="text"/>	00~50 is displayed for “XX”. When less than 1 hour, displayed by increments of 10 minutes.
		<input type="text"/> C <input type="text"/> D <input type="text"/> T <input type="text"/> X <input type="text"/> X <input type="text"/> X <input type="text"/> X <input type="text"/>	00001~10922 is displayed for “XXXXX”. MAX 10922 (hours)
■4			While the disc operation time is displayed, press and hold for 2 seconds or longer to clear the disc operation time. (Cleared only for displayed media.)
5	Disc EJECT times display	<input type="text"/> E <input type="text"/> J <input type="text"/> C <input type="text"/> X <input type="text"/> X <input type="text"/> X <input type="text"/> X <input type="text"/>	Disc EJECT times display. MAX 65535 (times)
■5			While disc EJECT times is displayed, press and hold for 2 seconds or longer to clear disc EJECT times.
6	Panel open/close times display	<input type="text"/> P <input type="text"/> C <input type="text"/> <input type="text"/> X <input type="text"/> X <input type="text"/> X <input type="text"/> X <input type="text"/>	PANEL open/close times display. MAX 65535 (times)
■6			Press the key for more than 2 seconds while the PANEL open/close count is displayed and PANEL open/close count is cleared.
FM	ROM correction version display	<input type="text"/> R <input type="text"/> O <input type="text"/> 1 <input type="text"/> 2 <input type="text"/> 3 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	The number is the ROM correction version number.
		<input type="text"/> E <input type="text"/> R <input type="text"/> R <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	When E2PROM is not installed.
		<input type="text"/> R <input type="text"/> - <input type="text"/> - <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	When not written in yet.
		<input type="text"/> R <input type="text"/> * <input type="text"/> * <input type="text"/> * <input type="text"/> * <input type="text"/> <input type="text"/> <input type="text"/>	When data not matched. (due to the difference in versions)
▶▶I	Audio data initialization	<input type="text"/> A <input type="text"/> U <input type="text"/> D <input type="text"/> <input type="text"/> I <input type="text"/> N <input type="text"/> I <input type="text"/> T <input type="text"/>	AUDIO setting value is re-set to the test mode default value.
I◀◀	Forced Power OFF information display	<input type="text"/> P <input type="text"/> O <input type="text"/> F <input type="text"/> F <input type="text"/> <input type="text"/> - <input type="text"/> - <input type="text"/>	No forced power OFF
		<input type="text"/> P <input type="text"/> O <input type="text"/> F <input type="text"/> F <input type="text"/> <input type="text"/> S <input type="text"/> E <input type="text"/> C <input type="text"/>	Forced power OFF because of missing Security Code. (Code security supporting model)
		<input type="text"/> P <input type="text"/> O <input type="text"/> F <input type="text"/> F <input type="text"/> <input type="text"/> P <input type="text"/> N <input type="text"/> L <input type="text"/>	Forced power OFF by communication error between system μ -com and panel.
■I◀◀			While the forced power OFF data is displayed, press and hold for 2 seconds to clear the data.
▶II	CD information display mode ON/OFF	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	For the display contents, refer to “CD information display mode” in the next section.
■▶II			While in CD information display mode, press and hold for 2 seconds or longer to clear all CD information.

TEST MODE (14-SEG VFD)

• CD information display mode

Key	Description of display		Description
FM (forward rotation) AM (reverse rotation)	I◀◀/ ▶▶I	CD mechanism error log display	Mechanism error log 1 (Latest) XX: Error number. “- -” is displayed in case there is no error.
			Mechanism error log 2 (Latest) XX: Error number. “- -” is displayed in case there is no error.
			Mechanism error log 3 (Latest) XX: Error number. “- -” is displayed in case there is no error.
	I◀◀/ ▶▶I	CD Load error information display	Load error switch 1 XX: Number of errors. “- -” is displayed in case there is no error.
			Load error switch 2 XX: Number of errors. “- -” is displayed in case there is no error.
	I◀◀/ ▶▶I	CD Ejection error information display	Ejection error switch 1 XX: Number of errors. “- -” is displayed in case there is no error.
			Ejection error switch 2 XX: Number of errors. “- -” is displayed in case there is no error.
			Ejection error switch 3 XX: Number of errors. “- -” is displayed in case there is no error.
			Ejection error switch 4 XX: Number of errors. “- -” is displayed in case there is no error.
	I◀◀/ ▶▶I	CD time code error count data display (Missing counts)	CD time code error count data (Missing counts) mode display.
			Number of CD-DA count errors XX: Number of errors. “- -” is displayed in case there is no error.
			CD-ROM (Compressed file) number of count errors XX: Number of errors. “- -” is displayed in case there is no error.
	I◀◀/ ▶▶I	CD time code error count data display (count not updated)	CD time code error count data (count not updated) mode display.
			Number of CD-DA count errors XX: Number of errors. “- -” is displayed in case there is no error.
			CD-ROM (Compressed file) Number of count errors XX: Number of errors. “- -” is displayed in case there is no error.

■ Test mode specifications in TUNER source

Error is found in front-end (A1), etc. If indications below is displayed while in tuner source.

Status	Display	Description
Front-end (A1) E2PROM data error	T N E 2 P N G	Front-end (A1) E2PROM is still the default (unspecified) value.
Front-end (A1) communication error	T N C O N N G	Communication with front-end (A1) is not possible.
Destination mismatch	T N T Y P N G	When destination is mismatch between front-end (A1) E2PROM and the product.

• TUNER preset operation

Key	Description of display	Description
4	Preset function F M 1 9 8 . 3 A 4	Change to 98.3MHz with the preset key [4].

TEST MODE (14-SEG VFD)

• K3I forced switching

Every time when [6] key is pressed in tuner FM source, switched in the following order: AUTO → Forced WIDE → Forced MIDDLE → Forced NARROW → AUTO. Default status is AUTO, and displayed as shown below.

Key	Description of display	Description
6	K3I Forced switching	F M 1 9 8 . 1 A
		F M 1 9 8 . 1 W
		F M 1 9 8 . 1 M
		F M 1 9 8 . 1 N
		AUTO
		Forced WIDE
		Forced MIDDLE
		Forced NARROW

• RDS auto measurement (Only for model with RDS)

Add the process to replace the visual inspection of PS display previously done in the production line.

Status	Display	Description
PS data reception	R D S T E S T	If displayed as shown at the left, force to OFF. P-CON is recovered by Power OFF/ON.

• FST adjustment mode

Perform FST soft-mute adjustment.

Key	Note
■▶▶	Enter the FST adjustment mode. (Press for 1 second or longer.)

Operations in the FST adjustment mode are as follows:

Key	Description of display	Description
FM (UP) AM (DOWN)	◀◀ / ▶▶ Soft-mute adjustment	S M D - F 0 ↔ 7
	Seek Stop Level adjustment (Auto)	A T N 0.00 (V) ↔ 5.00 (V). Normal (Local OFF)
	Seek Stop Level adjustment (Auto)	A T L 0.00 (V) ↔ 5.00 (V). Normal (Local ON)
	◀◀ / ▶▶ Seek Stop Level adjustment (Manual)	M N N 0.00 (V) ↔ 5.00 (V). Normal (Local OFF)
	◀◀ / ▶▶ Seek Stop Level adjustment (Manual)	M N L 0.00 (V) ↔ 5.00 (V). Normal (Local ON)
■▶▶	Adjustment value memory	E P W R I T E Displays the data that has been written in the E2PROM when pressing the key for 2 seconds or longer.
▶▶	Mode clear	F M 1 9 8 . 3 A 4 Clear the FST adjustment mode. (Returns to normal display and the test mode is retained.)

Switch Local Seek ON or OFF by briefly pressing [AUTO]/[TI] key when the Local Seek ON/OFF switching is allowed in the band.

After completing the FST adjustment, if you wish to clear the test mode, you can do this using the reset button.

TEST MODE (14-SEG VFD)

■ Test mode specifications in CD source

Display mode default: P-Time

• Procedure in CD-DA media (KTD-02A)

Key	Description of display		Description
▶▶I	Track up procedure		Every time pressed, jumps to the track shown below. No.9 → No.15 → No.10 → No.11 → No.12 → No.13 → No.22 → No.14 → No.9 (recursive) But in case the disc has 8 tracks or less, playback starts with track No.1. (For both CD-DA and compressed file discs)
I◀◀	Track down procedure		Goes down by 1 track from the currently played track.
1	Jump procedure		Jump to No. 28 (Scratch 0.7mm for MUSIC line vibration testing)
2	Jump procedure		Jump to No. 14 (Blurring surface disc TCD-731RA Tr14)
3	Information display Mechanism model name Mechanism version	6 E 0 0 : □ □ □ □ □	Display of Mechanism model name and Mechanism version. (When key is pressed while the display in the left is being shown, returns to normal display.)
6	Jump procedure		Jump to No. 15. Set the volume value to "25". (For 20Hz 0dB DC protection false-operation FCT checking)

• Procedure in CD-DA media (MP3/WMA)

Key	Description of display		Description
	File type display (MP3)	M P 3 □ □ □ □ □ □ □	Display file format just before the start of file play back.
	File type display (WMA)	W M A □ □ □ □ □ □ □	

■ Audio-related test mode

Procedure	Note
Press the [AUD] key (main unit) Press the [AUD] and [*] keys (Remote control)	Enter audio adjustment mode (the initial item should be Fader, and then, Balance → Bass Level → Middle Level → Treble Level → SW Level → System Q → V-Offset → LPF Sub Woofer.

About audio adjustment items (include both Audio Function Mode and Audio Setup Mode)

Procedure	Item	Procedure	Description
For item forwarding procedure, press [AUD] key and [FM] key	Fader	[VOL] knob and [I◀◀ / ▶▶I] key	Adjust to 3 steps of R15 ↔ 0 ↔ F15. (Default value: 0)
	Balance	[VOL] knob and [I◀◀ / ▶▶I] key	Adjust to 3 steps of L15 ↔ 0 ↔ R15. (Default value: 0)
	Bass Level	[VOL] knob and [I◀◀ / ▶▶I] key	Adjust to 3 steps of -8 ↔ 0 ↔ +8. (Default value 0)
	Middle Level	[VOL] knob and [I◀◀ / ▶▶I] key	Adjust to 3 steps of -8 ↔ 0 ↔ +8. (Default value 0)
	Treble Level	[VOL] knob and [I◀◀ / ▶▶I] key	Adjust to 3 steps of -8 ↔ 0 ↔ +8. (Default value 0)
	LPF Sub woofer	[VOL] knob and [I◀◀ / ▶▶I] key	Adjust to 2 steps of 80Hz ↔ Through. (Default value: Through) (Only in models with Sub Woofer output)
	Volume Offset	[VOL] knob and [I◀◀ / ▶▶I] key	Adjust to 3 steps of -8 ↔ 0 ↔ +8. (Default value 0)

Procedure	Note
Press the [B.BOOST] key for 1 second or longer	Switch Bass Boost (Note: Front key functions as MENU.)

TEST MODE (14-SEG VFD)

■ [ATT] key operation

Procedure	Note
In the TUNER source, press [▶II] key	ATT OFF/ON

■ MENU-related test mode

Procedure	Note
Press the [B.BOOST] key (main unit) Press the [DNPP/SBF] and [DIRECT] keys (Remote control)	Continuous forwarding by remote control is prohibited

■ Backup current measurement

Procedure	Note
While ACC OFF (Back Up ON), Reset	MUTE terminal is OFF after 2 seconds, not after 15 seconds. (During this time, the CD mechanism does not function.)



■ PREOUT switching

Procedure	Note
In the STANDBY source, press and hold [AUTO] key for 1 second or longer	Switches PREOUT

■ Fluorescent indicator (ED1) short check

Procedure	Note
In the STANDBY source, press [ATT] key	All lights are off → Turns on odd and even terminals alternatively every 125ms (terminals that have a maximum number of grids) → Turns on only the odd terminals → Turn on only the even terminals →

■ Clearing CD mechanism information / Service information / DC offset error information (Clearing E2PROM data)

Status	Display	Description
While pressing and holding [2] key and [5] key, reset-start.		At normal termination
		At abnormal termination

While “— — — —” is displayed, power can be ON for 30 minutes. This mode is cancelled by resetting. (The last screen will not be retained.)

Data to be cleared is shown below.

CD mechanism information	CD mechanism error log display
	Displays CD loading error data
	Displays CD EJECT error data
	Displays CD time code count error data (missing count)
	Displays CD time code count error data (count not updated)
Service Information	Power ON time display
	CD operation time display
	CD EJECT times display
	PANEL open/close times display
	Forced Power OFF information display
DC offset error information	DC offset error 1 display (Provides information on whether there is an improper connection or another error)
	DC offset error 2 display (Provides information on the number of capacitor leaks)

TEST MODE (14-SEG VFD)

■ Clearing DC offset error detection data (E2PROM data clearing)

Procedure	Note
While pressing and holding [3] key and [6] key, reset-start.	Entering DC offset error display mode.

Procedure	Display	Description
Press and hold the [3] and [6] keys, and reset-start	D C □ □ E R R □ □	When DC offset error is detected (when either one of capacitors is leaking, or an improper connection or another error is detected)
	D C □ □ O K □ □ □	When DC offset error is not detected (when none of capacitors leak, no improper connection or other error is detected)
1	D C 1 □ E R R □ □	When improper connection or other DC offset errors are detected.
	D C 1 □ O K □ □ □	When improper connection or other DC offset errors are not detected.
■1	D C 1 □ O K □ □ □	When detecting improper connection or other DC offset errors, clears detection data. (Clear E2PROM)
2	D C 2 □ 4 □ □ □ □	When detecting capacitor leak, provides information on the number of capacitor leaks. (0~4)
■2	D C 2 □ 0 □ □ □ □	When detecting capacitor leak, clears the number of capacitor leaks. (Clear E2PROM)

This mode is cancelled by resetting. (The last screen will not be retained.)

■ FM/AM channel space switching (Except model for European market)

Procedure	Note
While Power OFF, press and hold [1] key and [5] key, and press [SRC] key to Power ON	FM200kHz/AM10kHz ↔ FM50kHz/AM9kHz (Except KDC-MP238CR) FM50kHz/AM10kHz ↔ FM200kHz/AM10kHz (KDC-MP238CR only)

■ Security (KDC-MP238/MP439 only)

• Forced Power ON mode

Procedure	Note
While pressing and holding [B.BOOST] key and [4] key, reset-start.	While “- - - -” is displayed, power can be turned ON for only 30 minutes. After 30 minutes, can only be recovered by resetting.

• Method of clearing the programmable security code (KDC MP238 only)

Procedure	Display	Description
Press [▶▶] key for 3 seconds or longer-while pressing [AUTO] key	C O D E : - - - - □	Carry out the procedure while “- - - -” is being displayed.
	C O D E : □ □ □ □ □	“- - - -” disappears.
Press the remote control [5] key 2 times, display “K”, and press [▶▶] key.	C O D E : K □ □ □ □	
Press the remote control [2] key 3 times, display “C”, and press [▶▶] key.	C O D E : K C □ □ □	
Press the remote control [2] key 1 time, display “A”, and press [▶▶] key.	C O D E : K C A □ □	
Press the remote control [7] key 2 times, display “R”, and press [▶▶] key.	C O D E : K C A R □	
	A P P R O V E D □	Security cancelled. (If wrong character is input, code request mode is displayed.)

TEST MODE (14-SEG VFD)

- How to register the security code on the “Car Audio Passport” after replacement of the FRONT-END (A1) with E2PROM (KDC-MP439 only)

Procedure	Description
While pressing and holding [1] key and [3] key, reset-start	Enters the test mode
Press the [B.BOOST] key	Enters the MENU mode.
Press and hold [▶] key for 1 second or longer	Enters the security registration mode.
[FM] / [AM] / [◀◀ / ▶▶] key	Inputs the code. FM: Number up / AM: Number down / ◀◀: Cursor to the left / ▶▶: Cursor to the right
Press and hold [▶] key for 3 seconds or longer	“RE-ENTER” is displayed.
[FM] / [AM] / [◀◀ / ▶▶] key	Inputs the code again. FM: Number up / AM: Number down / ◀◀: Cursor to the left / ▶▶: Cursor to the right
Press and hold [▶] key for 3 seconds or longer	“APPROVED” is displayed.
Reset, momentary power down, ACC OFF, Power OFF, panel removed	Cancels the test mode.

Note: The security code in this model cannot be all-clear.

■ ROM data transfer

When replacing front-end (A1), this function is used to transfer E2PROM data (ROM correction, security and other data) to front-end (A1) to E2PROM of to mother unit (X34-), used for saving data, and, after completing replacement of front-end (A1), to recover data from the E2PROM of the mother unit (X34-), and for saving data to the new front-end (A1). Refer to “ROM data transfer processes” on the next page for details on front-end (A1) replacement procedures and on the data to be transferred.

Procedure	Display	Description
While pressing and holding [1] key and [3] keys, reset-start	□ □ □ □ : □ □ □ □ □	All lights ON.
Press [B.BOOST] key (MENU)	R O M □ R E A D □	MENU mode
Press [◀◀] key or [▶▶] key	R O M □ R E A D □	Front-end (A1) → Mother unit (X34-). Data transfer processing.
	R O M □ W R T □	Mother unit (X34-) → Front-end (A1). Data transfer processing.
(In the above ROM READ status), ■ [▶] key for 2 seconds or longer	R E A D □ □ □ □ □	Front-end (A1) → Mother unit (X34-). ROM data is being transferred.
	R E A D □ O K □ □	Front-end (A1) → Mother unit (X34-). ROM correction transfer, security and other data is OK.
	R E A D □ O K 2 □	Front-end (A1) → Mother unit (X34-). Transfer of security and other data is OK.
	R E A D □ N G □ □	Front-end (A1) → Mother unit (X34-). ROM data transfer is NG.
	W R T □ □ □ □ □ □	Mother unit (X34-) → Front -end (A1). ROM data is being transferred.
(In the above ROM WRT status), ■ [▶] key for 2 seconds or longer	W R T □ □ O K □ □	Mother unit (X34-) → Front-end (A1). ROM correction, security and other data transfer is OK.
	W R T □ □ O K 1 □	Mother unit (X34-) → Front-end (A1). ROM correction data transfer is OK.
	W R T □ □ O K 2 □	Mother unit (X34-) → Front-end (A1). Transfer of security and other data is OK.
	W R T □ □ N G □ □	Mother unit (X34-) → Front-end (A1). ROM data transfer is NG
	□ □ □ □ : □ □ □ □ □	Clear from ROM correction data transfer processing

ROM DATA TRANSFER PROCESSES

When replacing front-end (A1) of mother unit (X34-), or when adding or replacing ROM correction (program correction with ROM IC (IC10)), the following activities are required.

■ Overview

When replacing front-end (A1) in the model where ROM correction and security data have been written into E2PROM, included in the front-end (A1) pack, the transfer function of the E2PROM data itself in the replaced front-end (A1) is required.

This function in the above system configuration is used to allow for complete replacement of the front-end at any service center.

■ Overview of specifications

Procedures for replacement are as follows: To install the E2PROM to the mother unit (X34-), and replace front-end (A1) with new front-end after copying the data in the E2PROM (such as ROM correction data and other data) in the front-end (A1) to the mother unit (X34-) by operating the system, and then copy the data (such as ROM correction data and other data) into the mother unit to the E2PROM of the front-end (A1), operating the main body.

Tuner adjustment data was inserted during the tuner pack manufacturing, and data will not be transferred because front-end (A1) is built-in.

In addition, tuner adjustment data for new front-end (A1) is supplied as a service part in which data was inserted.

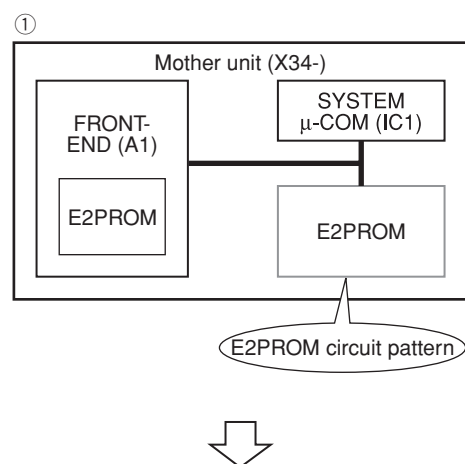
■ Data to be copied

- ROM correction data
- Other data
 - Security data
 - DEMO MODE ON/OFF status
 - POWER ON time (For maintenance)
 - Playback time (For maintenance)
 - EJECT count (For maintenance)
 - Panel open/close count (For maintenance)
 - CD I2C status (For maintenance)
 - CD offset error code (For maintenance)
 - CD sound skips count (For maintenance)
 - CD time code not updated count (For maintenance)
 - CD load switch errors count (For maintenance)
 - CD ejection errors count (For maintenance)
 - DC offset error (For maintenance)
 - Forced Power OFF information (For maintenance)
 - Serial number (For maintenance)
 - E2PROM data check data (For internal check)

■ Operation procedure

Operation procedure is different depending on the conditions. Proceed with the appropriate operation procedure depending on the specific condition.

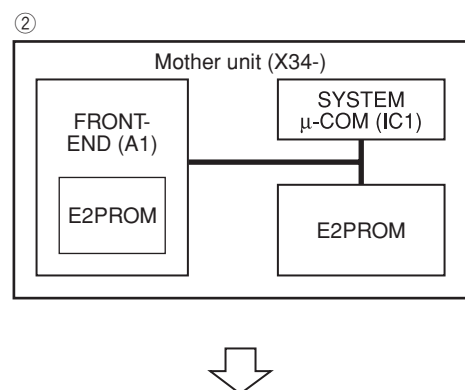
1. In case of replacing front-end (A1) without an applicable ROM correction.
2. In case of replacing front-end (A1) with an applicable ROM correction.
3. In case of applying new ROM correction at the same time when front-end (A1) is replaced. (No ROM correction has been carried out.)



Install new E2PROM.

Install E2PROM containing no data, in case of [1] and [2].

In case of [3], install maintenance E2PROM with an applicable ROM correction program.



ROM DATA TRANSFER PROCESSES

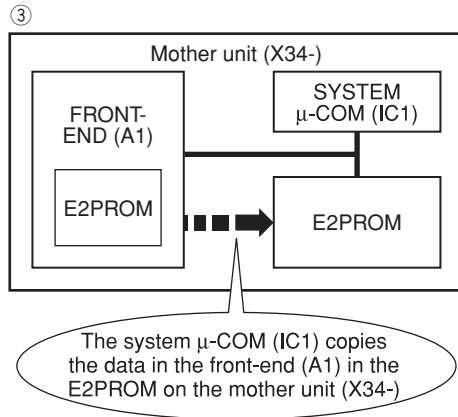
Turn power on.

Press and hold the [1] and [3] keys and press reset button.
(Enter the system in the test mode.)

Press [B.BOOST] key. (ROM data System enters data transfer mode.)

Press [◀◀] (or ▶▶). (Select READ)

Press [▶] key for 1 second or longer. (Data transfer)



In case of [2]

READ OK R-OK

In case of [1] or [3]

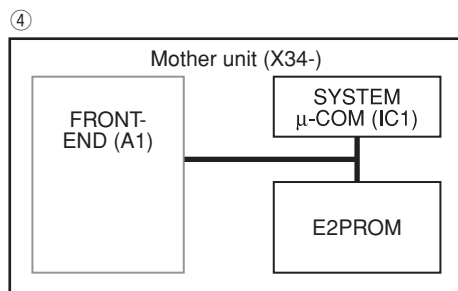
READ OK2 R-O2



Press [▶] key. (Exit ROM data transfer mode.)

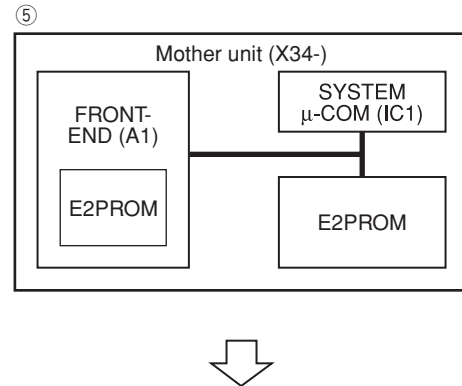
Turn power off.

Remove front-end (A1).



Install new front-end (A1).

No ROM correction or other data status.



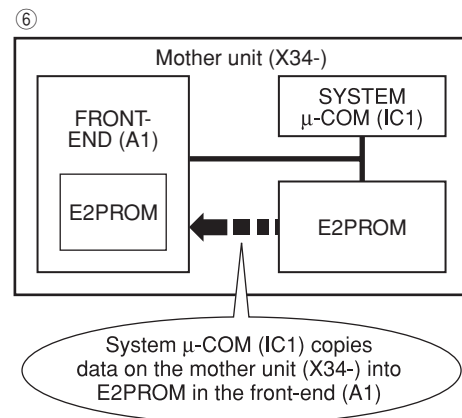
Turn power on.

Press and hold the [1] and [3] keys and press reset button.
(Enter the system in the test mode.)

Press [B.BOOST] key. (Start transferring ROM data.)

Press [◀◀] (or ▶▶). (Select WRT)

Press [▶] key for 1 second or longer. (Data transfer)



In case of [2] or [3]

WRT OK W-OK

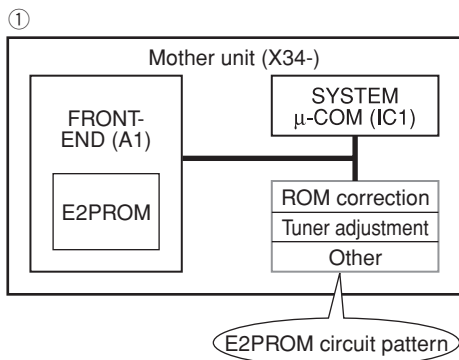
In case of [1]

WRT OK2 W-O2

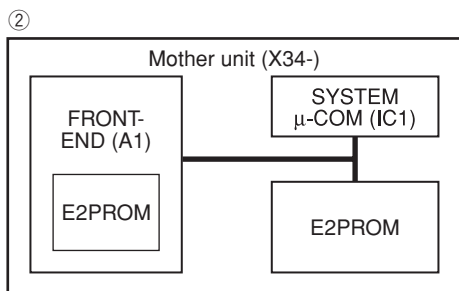
Press [▶] key. (Exit ROM data transfer mode.)

ROM DATA TRANSFER PROCESSES

4. In case of applying a new ROM correction when front-end (A1) is replaced (There is ROM correction data.)
5. In case of applying a new ROM correction even when front-end (A1) is not replaced.



Install new E2PROM. (E2PROM that has been updated with ROM correction)



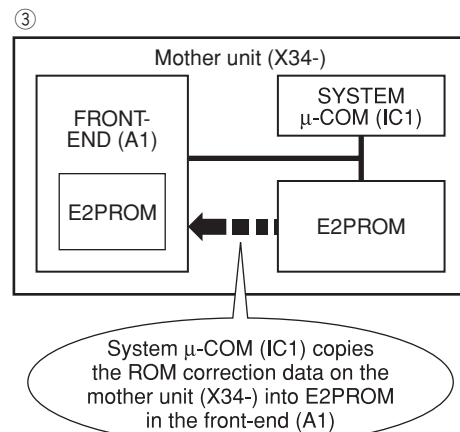
Turn power on.

Press and hold the [1] and [3] keys, press reset button. (Enter the system in the test mode.)

Press [B.BOOST] key. (ROM data System enters data transfer mode.)

Press [◀◀] (or ▶▶). (Select WRT)

Press [▶▶] key for 1 second or longer. (Data transfer)



In case of [4]



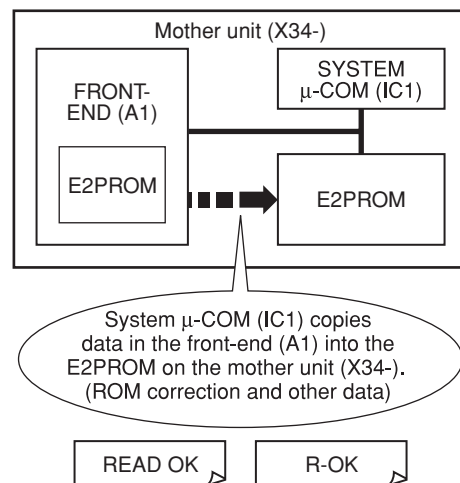
Press [◀◀] (or ▶▶). (Select READ)

Press [▶▶] key for 1 second or longer. (Data transfer)



In case of [5]

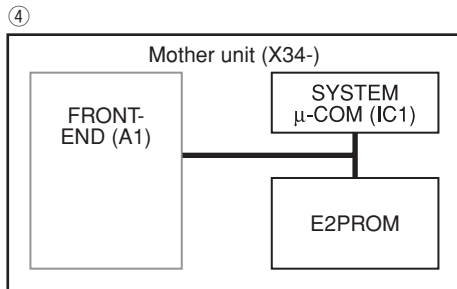
Press [▶▶] key. (Exit ROM data transfer mode.)



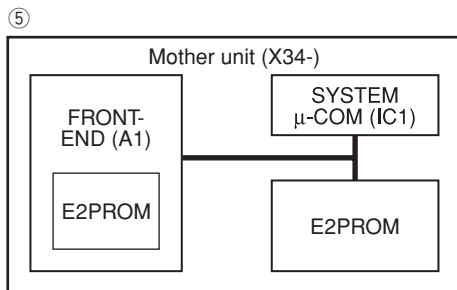
ROM DATA TRANSFER PROCESSES

Press [▶||] key. (Exit ROM data transfer mode.)
Turn power off.

Remove front-end (A1).



Install new front-end (A1).
No ROM correction or other data status.



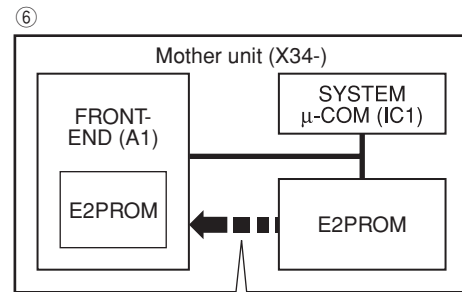
Turn power on.

Press and hold the [1] and [3] keys press reset button. (Enter the system in the test mode.)

Press [B.BOOST] key. (Enter the system in ROM data transfer mode.)

Press [◀◀] (or ▶▶). (Select WRT)

Press [▶||] key for 1 second or longer. (Data transfer)



System μ-COM (IC1) copies data on the mother unit (X34-) into E2PROM in the front-end (A1)

WRT OK

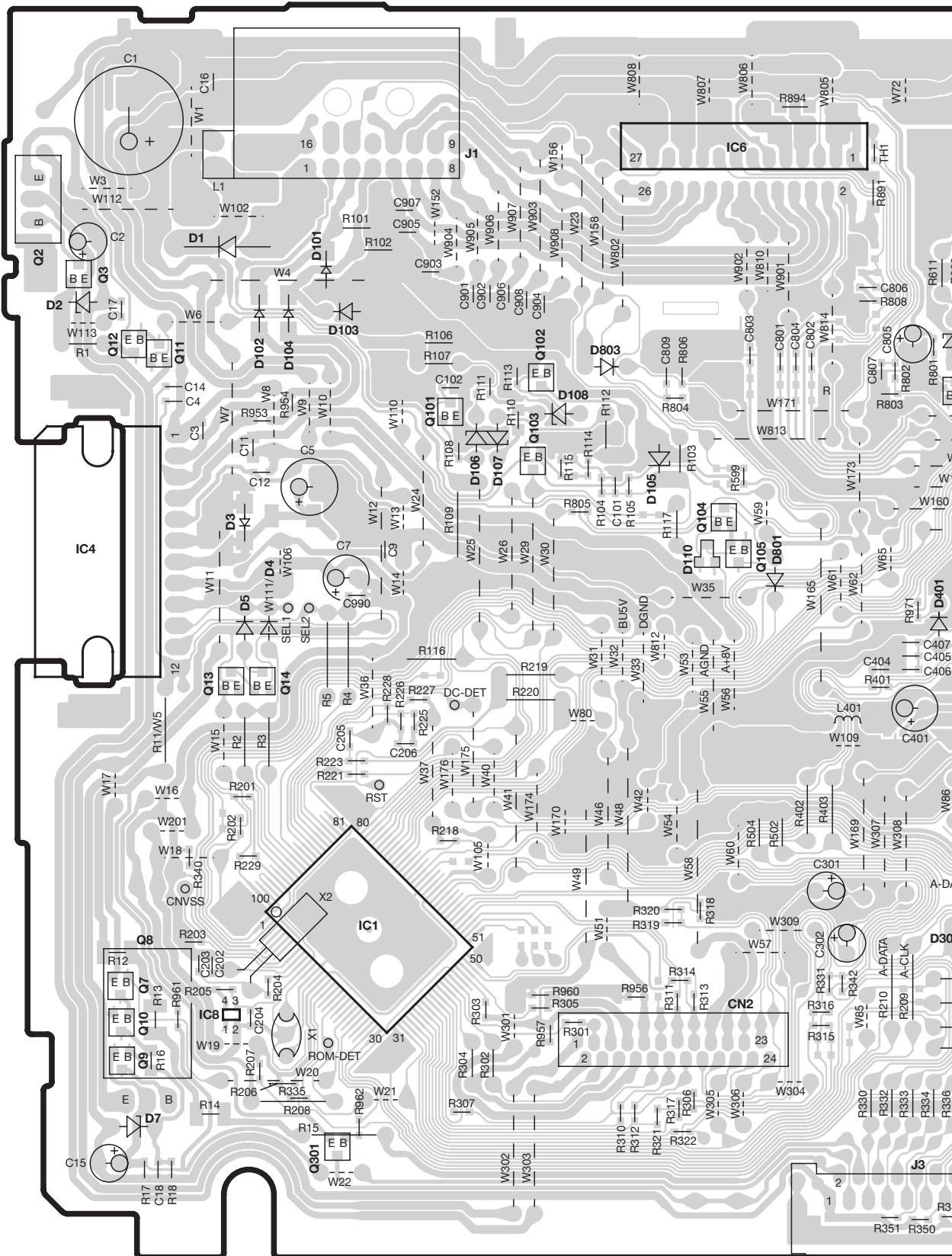
W-OK

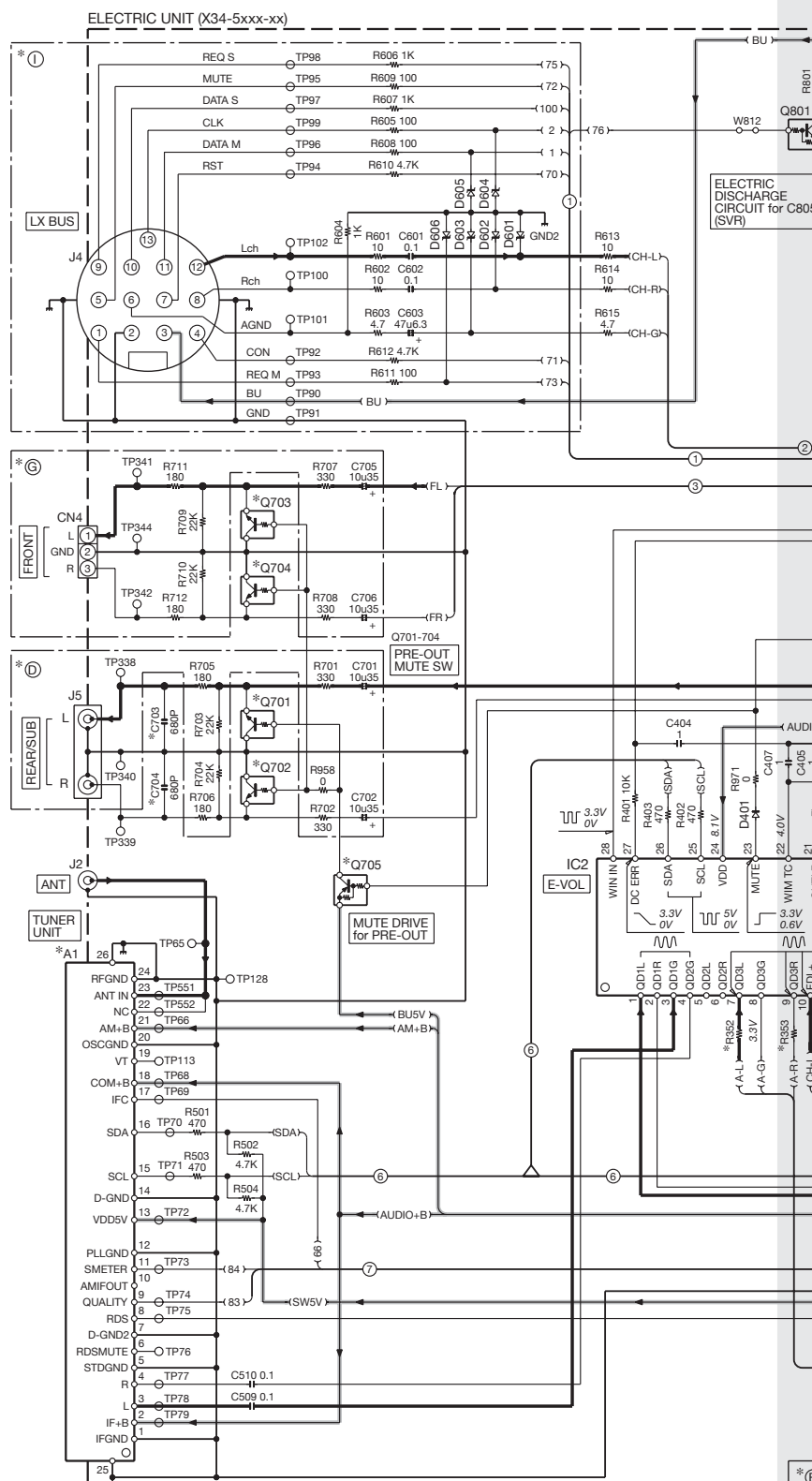
Press [▶||] key. (Exit ROM data transfer mode.)

X34-56xx-xx

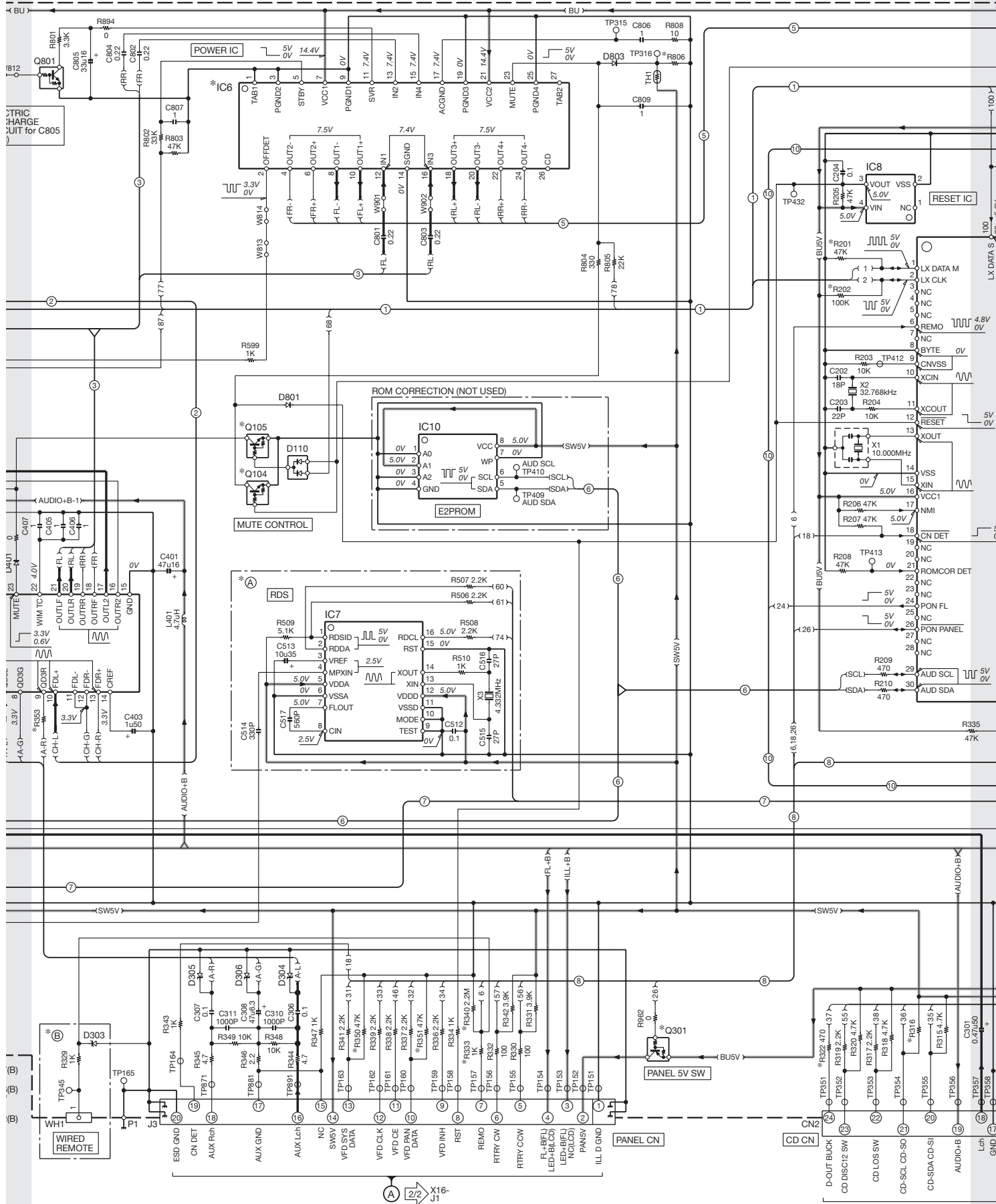
PC BOARD (FOIL SIDE VIEW)

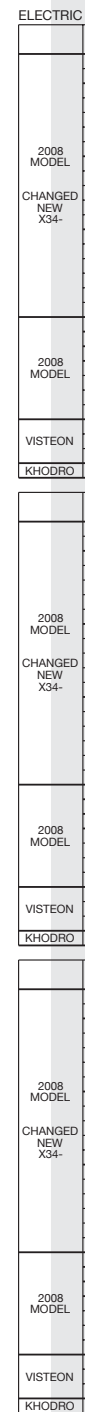
ELECTRIC UNIT X34-56xx-xx (J76-0459-12)





IC1 : *	Q2,8 : KTA1046-P	D1 : S2V60-5009F46	D105,901 : MTZJ4.7(B)
IC2 : E-TDA7719	Q3,9,101-103,402,901	D2 : MTZJ8.2(B)	D106-108,305,306,601-606 : MTZJ8.8(B)
IC4 : BD4913-V4	Q7 : 2SC4081	D3,101,102,104 : D1F60-5063	D110 : BAV70W
IC6 : *	Q10,12,705 : *	D4,5,109,401,404,801-803 : 1SS133	D301 : DA204U
IC7 : LC72725KV	Q11 : *	D7 : MTZJ12(B)	D303 : MTZJ6.2(B)
IC8 : XC6120N362N1	Q13 : *	D103 : 1SR139-400T64	D304 : *
IC10 : NOT USED	Q14 : *		
	Q104,105 : *		
	Q301 : *		
	Q701-704 : *		
	Q801 : RT1N144M		
	Q902,903 : 2SA1576A		





to X32- CN2

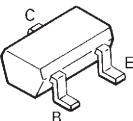
ELECTRIC UNIT (X34-5xxx-xx)

	MODEL NAME	DESTI- NATION	UNIT No.	A	B	D	E	F	G	H	I	L	A1	C4	C16, 901-908	C206	C703, 704	D4, 5	IC1	IC6
2008 MODEL CHANGED NEW X34-	E232/S	J/J1	X34-5670-02	—	—	—	YES	YES	—	YES	—	YES	X86-4160-01	YES	—	YES	—	YES	30622MEPB51FP	KKZ122
	RDT-131	J2	X34-5670-01	—	—	—	YES	—	—	—	—	—	YES	X86-4160-01	YES	—	YES	—	30302MAPA85FP	KKZ122
	KDC-138	K3	X34-5670-10	—	—	YES	—	—	—	—	—	—	YES	X86-4160-11	—	—	—	—	30302MAPA85FP	KKZ122
	KDC-138CR	K4	X34-5670-11	—	—	—	—	YES	—	—	—	—	—	X86-4160-11	—	—	—	—	30302MAPA85FP	KKZ122
	KDC-MP208	K2	X34-5670-14	—	—	YES	—	—	YES	—	—	—	YES	X86-4160-11	—	—	—	—	30622MEPB51FP	KKZ122
	KDC-MP238	K	X34-5670-12	—	—	YES	—	YES	YES	YES	YES	YES	YES	X86-4160-11	—	—	—	—	30622MGPB52FP	KKZ122
	KDC-MP238CR	K1	X34-5670-13	—	—	YES	—	YES	—	—	—	—	YES	X86-4160-11	—	—	—	—	30622MEPB51FP	KKZ122
	KDC-139/S	M6/M7	X34-5670-21	—	—	YES	YES	—	—	—	—	—	YES	X86-4160-11	YES	—	—	YES	30302MAPA85FP	KKZ122
	KDC-MP239	M2	X34-5670-23	—	—	YES	YES	YES	—	—	—	—	YES	X86-4160-11	YES	—	—	YES	30622MEPB51FP	KKZ122
	KDC-MP3039	M3	X34-5670-23	—	—	YES	YES	YES	—	—	—	—	YES	X86-4160-11	YES	—	—	YES	30622MEPB51FP	KKZ122
	KDC-MP339/S	M4/M5	X34-5670-23	—	—	YES	YES	YES	—	—	—	—	YES	X86-4160-11	YES	—	—	YES	30622MEPB51FP	KKZ122
	KDC-MP439	M1	X34-5670-22	—	—	YES	YES	YES	YES	YES	YES	YES	YES	X86-4160-11	YES	—	—	YES	30622MGPB52FP	KKZ122
	KDC-241SA/SG	E4/E5	X34-5682-70	YES	—	—	YES	YES	—	—	—	—	YES	X86-4162-70	—	YES	—	—	30302MAPA85FP	E-TDA7389A
	KDC-W241AY/GY	E4/E5	X34-5682-71	—	—	—	YES	YES	—	—	—	—	YES	X86-4162-70	—	YES	—	—	30622MEPB51FP	KKZ122
	KDC-W3041A/G	E/E1	X34-5682-74	YES	—	YES	YES	YES	—	—	—	—	YES	X86-4162-70	—	YES	—	YES	30622MEPB51FP	KKZ122
	KDC-W3041AY/GY	E/E1	X34-5682-75	YES	—	YES	YES	YES	—	—	—	—	YES	X86-4162-70	—	YES	—	YES	30622MEPB51FP	KKZ122
	KDC-W312A/G	E2/E3	X34-5682-74	YES	—	YES	YES	YES	—	—	—	—	YES	X86-4162-70	—	YES	—	YES	30622MEPB51FP	KKZ122
	KDC-W312AY/GY/SAY	E2/E3/E6	X34-5682-75	YES	—	YES	YES	YES	—	—	—	—	YES	X86-4162-70	—	YES	—	YES	30622MEPB51FP	KKZ122
2008 MODEL	E333	J	X34-5810-01	—	—	YES	YES	YES	—	YES	YES	YES	X86-4160-01	YES	—	YES	—	YES	30622MGPB60FP	KKZ122
	KDC-MP338	K1	X34-5810-10	—	—	YES	YES	YES	YES	YES	YES	YES	X86-4160-11	YES	—	—	—	YES	30622MGPB60FP	KKZ122
	KDC-MP4039	M1	X34-5810-21	—	—	YES	YES	YES	YES	YES	YES	YES	X86-4160-11	YES	—	—	—	YES	30622MGPB60FP	KKZ122
	KDC-W3541A/G	E6/E7	X34-5682-72	YES	—	YES	YES	YES	—	—	—	—	YES	X86-4162-70	—	YES	—	YES	30622MGPB52FP	KKZ122
	KDC-W3541AY/GY	E8/E9	X34-5682-73	YES	—	YES	YES	YES	—	—	—	—	YES	X86-4162-70	—	YES	—	YES	30622MGPB52FP	KKZ122
	KDC-W4041A/G/W	E2/E3/E1	X34-5812-71	YES	YES	YES	YES	YES	—	—	—	—	YES	X86-4162-70	—	YES	—	YES	30622MGPB61FP	KKZ122
	KDC-W4141AY/GY/WY	E5/E6/E4	X34-5812-72	YES	YES	YES	YES	YES	—	—	—	—	YES	X86-4162-70	—	YES	—	YES	30622MGPB61FP	KKZ122
	CKDCMP590	K3	X34-5890-12	—	—	—	YES	—	—	—	—	—	YES	X86-4160-12	—	—	—	—	30622MEPB51FP	KKZ122
	CKDCMP6078FD/PS/VW	K1/K2/K	X34-5890-10	—	—	—	YES	—	—	—	—	—	YES	X86-4160-12	—	—	—	—	30622MEPB51FP	KKZ122
	CKDCMP6090	K4	X34-5890-13	—	—	YES	—	YES	YES	YES	—	—	—	YES	X86-4160-12	—	—	—	30622MEPB51FP	KKZ122
KHODRO	KDC-W237S	IRAN	X34-5682-75	YES	—	YES	YES	YES	—	YES	—	—	YES	X86-4162-70	—	YES	—	YES	30622MEPB51FP	KKZ122

DTC143TUA

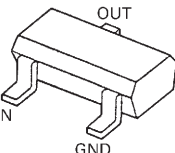


2SC4081



	MODEL NAME	DESTI- NATION	UNIT No.	Q7	Q10	Q11	Q12	Q13	Q14	Q104,105	Q301	Q701,702	Q703,704	Q705
2008 MODEL CHANGED NEW X34-	E232/S	J/J1	X34-5670-02	KRC403-P	KRA303-P	KRC403-P	KRA303-P	KRC403-P	KRA303-P	KRC404-P	KRA307-P	—	—	—
	RDT-131	J2	X34-5670-01	—	—	KRC403-P	KRA303-P	KRC403-P	KRA303-P	KRC404-P	KRA307-P	—	—	—
	KDC-138	K3	X34-5670-10	—	—	KRC403-P	KRA303-P	—	—	KRC404-P	KRA307-P	KRC410-P	—	KRA303-P
	KDC-138CR	K4	X34-5670-11	—	—	KRC403-P	KRA303-P	—	—	KRC404-P	KRA307-P	—	—	—
	KDC-MP208	K2	X34-5670-14	KRC403-P	KRA303-P	KRC403-P	KRA303-P	—	—	KRC404-P	KRA307-P	KRC410-P	—	KRA303-P
	KDC-MP238	K	X34-5670-12	KRC403-P	KRA303-P	KRC403-P	KRA303-P	—	—	KRC404-P	KRA307-P	KRC410-P	KRC410-P	KRA303-P
	KDC-MP238CR	K1	X34-5670-13	KRC403-P	KRA303-P	KRC403-P	KRA303-P	—	—	KRC404-P	KRA307-P	KRC410-P	—	KRA303-P
	KDC-139/S	M6/M7	X34-5670-21	—	—	KRC403-P	KRA303-P	KRC403-P	KRA303-P	KRC404-P	KRA307-P	KRC410-P	—	KRA303-P
	KDC-MP239	M2	X34-5670-23	KRC403-P	KRA303-P	KRC403-P	KRA303-P	KRC403-P	KRA303-P	KRC404-P	KRA307-P	KRC410-P	—	KRA303-P
	KDC-MP3039	M3	X34-5670-23	KRC403-P	KRA303-P	KRC403-P	KRA303-P	KRC403-P	KRA303-P	KRC404-P	KRA307-P	KRC410-P	—	KRA303-P
	KDC-MP339/S	M4/M5	X34-5670-23	KRC403-P	KRA303-P	KRC403-P	KRA303-P	KRC403-P	KRA303-P	KRC404-P	KRA307-P	KRC410-P	—	KRA303-P
	KDC-MP439	M1	X34-5670-22	KRC403-P	KRA303-P	KRC403-P	KRA303-P	KRC403-P	KRA303-P	KRC404-P	KRA307-P	KRC410-P	KRC410-P	KRA303-P
	KDC-241SA/SG	E4/E5	X34-5682-70	DTC124EUA	DTA124EUA	DTC124EUA	DTA124EUA	—	—	DTC144EUA	DTA114YUA	—	—	—
	KDC-W241AY/GY	E4/E5	X34-5682-71	DTC124EUA	DTA124EUA	DTC124EUA	DTA124EUA	—	—	DTC144EUA	DTA114YUA	—	—	—
	KDC-W3041A/G	E/E1	X34-5682-74	DTC124EUA	DTA124EUA	DTC124EUA	DTA124EUA	—	—	DTC144EUA	DTA114YUA	DTC143TUA	—	DTA124EUA
	KDC-W3041AY/GY	E/E1	X34-5682-75	DTC124EUA	DTA124EUA	DTC124EUA	DTA124EUA	—	—	DTC144EUA	DTA114YUA	DTC143TUA	—	DTA124EUA
	KDC-W312A/G	E2/E3	X34-5682-74	DTC124EUA	DTA124EUA	DTC124EUA	DTA124EUA	—	—	DTC144EUA	DTA114YUA	DTC143TUA	—	DTA124EUA
	KDC-W312AY/GY/SAY	E2/E3/E6	X34-5682-75	DTC124EUA	DTA124EUA	DTC124EUA	DTA124EUA	—	—	DTC144EUA	DTA114YUA	DTC143TUA	—	DTA124EUA
2008 MODEL	E333	J	X34-5810-01	DTC124EUA	DTA124EUA	DTC124EUA	DTA124EUA	DTC124EUA	DTA124EUA	DTC144EUA	DTA114YUA	DTC143TUA	DTC143TUA	DTA124EUA
	KDC-MP338	K1	X34-5810-10	DTC124EUA	DTA124EUA	DTC124EUA	DTA124EUA	DTC124EUA	DTA124EUA	DTC144EUA	DTA114YUA	DTC143TUA	DTC143TUA	DTA124EUA
	KDC-MP4039	M1	X34-5810-21	DTC124EUA	DTA124EUA	DTC124EUA	DTA124EUA	DTC124EUA	DTA124EUA	DTC144EUA	DTA114YUA	DTC143TUA	DTC143TUA	DTA124EUA
	KDC-W3541A/G	E6/E7	X34-5682-72	DTC124EUA	DTA124EUA	DTC124EUA	DTA124EUA	—	—	DTC144EUA	DTA114YUA	DTC143TUA	—	DTA124EUA
	KDC-W3541AY/GY	E8/E9	X34-5682-73	DTC124EUA	DTA124EUA	DTC124EUA	DTA124EUA	—	—	DTC144EUA	DTA114YUA	DTC143TUA	—	DTA124EUA
	KDC-W4041A/G/W	E2/E3/E1	X34-5812-71	DTC124EUA	DTA124EUA	DTC124EUA	DTA124EUA	—	—	DTC144EUA	DTA114YUA	DTC143TUA	—	DTA124EUA
	KDC-W4141AY/GY/WY	E5/E6/E4	X34-5812-72	DTC124EUA	DTA124EUA	DTC124EUA	DTA124EUA	—	—	DTC144EUA	DTA114YUA	DTC143TUA	—	DTA124EUA
	CKDCMP590	K3	X34-5890-12	RT1N241M	RT1P241M	RT1N241M	RT1P241M	—	—	RT1N441M	RT1P144M	RT1N430M	—	RT1P241M
	CKDCMP6078FD/PS/VW	K1/K2/K	X34-5890-10	RT1N241M	RT1P241M	RT1N241M	RT1P241M	—	—	RT1N441M	RT1P144M	RT1N430M	—	RT1P241M
	CKDCMP6090	K4	X34-5890-13	RT1N241M	RT1P241M	RT1N241M	RT1P241M	—	—	RT1N441M	RT1P144M	RT1N430M	RT1N430M	RT1P241M
KHODRO	KDC-W237S	IRAN	X34-5682-75	DTC124EUA	DTA124EUA	DTC124EUA	DTA124EUA	—	—	DTC144EUA	DTA114YUA	DTC143TUA	—	DTA124EUA

DTA124EUA
DTC124EUA
DTC144EUA



	MODEL NAME	DESTI- NATION	UNIT No.	R2	R11	R201,202, 219,220,229	R221	R225	R226	R227	R228	R303-305, 312,321,322	R316	R333, 340	R350, 351	R352/ 353	R806	R953	R954	R961	W5	W111	
2008 MODEL CHANGED NEW X34-	E232/S	J/J1	X34-5670-02	YES	YES	—	—	47K	—	—	47K	YES	2.2K	—	470	9.1K	YES	—	—	—	—	—	
	RDT-131	J2	X34-5670-01	YES	—	—	—	22K	47K	—	—	—	4.7K	—	470	9.1K	YES	—	YES	YES	—	—	
	KDC-138	K3	X34-5670-10	YES	—	—	—	—	47K	—	—	—	4.7K	—	470	9.1K	—	—	YES	YES	YES	—	
	KDC-138CR	K4	X34-5670-11	—	—	—	—	47K	22K	—	—	—	4.7K	YES	470	9.1K	—	—	YES	YES	YES	—	
	KDC-MP208	K2	X34-5670-14	YES	YES	—	—	47K	47K	22K	—	YES	2.2K	YES	470	9.1K	—	—	—	—	YES	—	
	KDC-MP238	K	X34-5670-12	YES	YES	YES	—	—	47K	—	—	YES	2.2K	YES	470	9.1K	—	—	—	—	YES	—	
	KDC-MP238CR	K1	X34-5670-13	YES	YES	—	—	—	47K	—	47K	—	YES	2.2K	YES	470	9.1K	—	—	—	—	YES	
	KDC-139/S	M6/M7	X34-5670-21	YES	—	—	—	47K	47K	—	—	—	4.7K	—	470	9.1K	—	YES	YES	—	—	—	
	KDC-MP239	M2	X34-5670-23	YES	YES	—	—	47K	22K	—	47K	YES	2.2K	YES	470	9.1K	YES	—	—	—	—	—	
	KDC-MP3039	M3	X34-5670-23	YES	YES	—	—	47K	22K	—	47K	YES	2.2K	YES	470	9.1K	YES	—	—	—	—	—	
2008 MODEL	KDC-MP339/S	M4/M5	X34-5670-23	YES	YES	—	—	47K	22K	47K	YES	2.2K	YES	470	9.1K	YES	—	—	—	—	—	—	
	KDC-MP439	M1	X34-5670-22	YES	YES	YES	—	47K	22K	—	—	YES	2.2K	YES	470	9.1K	YES	—	—	—	—	—	
	KDC-2415A/SG	E4/E5	X34-5682-70	YES	YES	—	YES	—	—	—	—	—	4.7K	—	470	9.1K	—	YES	—	—	YES	—	
	KDC-W241A1Y/GY	E4/E5	X34-5682-71	YES	YES	—	—	47K	22K	47K	22K	YES	2.2K	—	470	9.1K	—	YES	—	—	—	YES	
	KDC-W3041A1/G	E/E1	X34-5682-74	YES	YES	—	—	YES	47K	47K	47K	YES	2.2K	YES	470	9.1K	—	YES	—	—	—	YES	
	KDC-W3041A1Y/GY	E/E1	X34-5682-75	YES	YES	—	YES	22K	47K	—	47K	YES	2.2K	YES	470	9.1K	—	YES	—	—	—	YES	
	KDC-W312A/G	E/E3	X34-5682-74	YES	YES	—	—	47K	47K	—	47K	YES	2.2K	YES	470	9.1K	—	YES	—	—	—	YES	
	KDC-W312A1Y/G/SAY	E2/E3/E6	X34-5682-75	YES	YES	—	YES	22K	47K	—	47K	YES	2.2K	YES	470	9.1K	—	YES	—	—	—	YES	
	E333		X34-5810-01	YES	—	YES	—	—	47K	47K	—	YES	2.2K	YES	YES	10	10K	YES	—	—	YES	—	
	KDC-MP338	K1	X34-5810-10	YES	—	YES	—	—	47K	—	47K	YES	2.2K	YES	YES	10	10K	YES	—	—	YES	—	
VISTEON	KDC-MP4039	M1	X34-5810-21	YES	—	YES	—	—	47K	47K	22K	YES	2.2K	YES	YES	10	10K	YES	—	—	YES	—	
	KDC-W3541A1/G	E6/E7	X34-5682-72	YES	YES	YES	YES	47K	47K	—	—	YES	2.2K	YES	—	470	9.1K	—	YES	—	—	YES	
	KDC-W3541A1Y/GY	E8/E9	X34-5682-73	YES	YES	YES	YES	22K	47K	—	—	YES	2.2K	YES	—	470	9.1K	—	YES	—	—	YES	
	KDC-W4041A1/G/W	E2/E3/E1	X34-5812-71	YES	—	YES	YES	—	47K	47K	47K	YES	2.2K	YES	YES	10	10K	—	YES	—	YES	YES	
	KDC-W4141A1Y/GY/WY	E5/E6/E4	X34-5812-72	YES	—	YES	YES	—	47K	22K	47K	YES	2.2K	YES	YES	10	10K	—	YES	—	YES	YES	
	KDCMP2590	K3	X34-5890-12	YES	YES	—	22K	47K	47K	22K	YES	2.2K	—	—	470	9.1K	—	YES	—	—	—	YES	
	KDCMP2590/PS/WK	K1/K2/K3	X34-5890-10	YES	YES	—	47K	—	47K	22K	YES	2.2K	—	—	470	9.1K	—	YES	—	—	—	YES	
	KDCMP6090	K4	X34-5890-13	YES	YES	—	—	47K	47K	22K	YES	2.2K	—	—	470	9.1K	—	YES	—	—	—	YES	
	KHODRO	KDC-W3235	IRAN	X34-5682-75	YES	YES	—	YES	22K	47K	—	42K	YES	2.2K	YES	—	470	9.1K	—	YES	—	—	YES

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.

DESTINATION "K"

EXPLODED VIEW is on page 2.

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
ELECTRIC UNIT (X34-56xx-xx)					
C1			CD04AZ1C332M2	ELECTRO 3300UF 16WV	
C2			CD04AB1C220M	ELECTRO 22UF 16WV	
C3			CK73GB1H104K	CHIP C 0.10UF K	
C5			CD04AR1C221M	ELECTRO 220UF 16WV	
C7			CD04AB0J101M	ELECTRO 100UF 6.3WV	
C9			CK73GB1C104K	CHIP C 0.10UF K	
C11			CK73FB1A225K	CHIP C 2.2UF K	
C12			CK73GB1C104K	CHIP C 0.10UF K	
C14			CK73GB1C104K	CHIP C 0.10UF K	
C15			CD04AB1C220M	ELECTRO 22UF 16WV	KK1K2
C17			CK73GB1C104K	CHIP C 0.10UF K	
C18			CK73GB1C104K	CHIP C 0.10UF K	KK1K2
C101,102			CK73GB1H103K	CHIP C 0.010UF K	
C202			CC73GCH1H180J	CHIP C 18PF J	
C203			CC73GCH1H220J	CHIP C 22PF J	
C204			CK73GB1C104K	CHIP C 0.10UF K	
C205			CK73GB1H102K	CHIP C 1000PF K	
C301,302			CD04AB1HR47M	ELECTRO 0.47UF 50WV	
C306,307			CK73GB1C104K	CHIP C 0.10UF K	
C308			CD04AB0J470M	ELECTRO 47UF 6.3WV	
C310,311			CK73GB1H102K	CHIP C 1000PF K	
C401			CD04AB1C470M	ELECTRO 47UF 16WV	
C403			CD04AB1H010M	ELECTRO 1.0UF 50WV	
C404-407			CK73GB1A105K	CHIP C 1.0UF K	
C509,510			CK73GB1C104K	CHIP C 0.10UF K	
C601,602			CK73GB1C104K	CHIP C 0.10UF K	K
C603			CD04AC0J470M	ELECTRO 47UF 6.3WV	K
C701,702			CD04AB1V100M	ELECTRO 10UF 35WV	KK1K2
C701,702			CD04AB1V100M	ELECTRO 10UF 35WV	K3
C705,706			CD04AB1V100M	ELECTRO 10UF 35WV	K
C801-804			CK73GB1A224K	CHIP C 0.22UF K	
C805			CD04AB1C330M	ELECTRO 33UF 16WV	
C806			CK73GB1A105K	CHIP C 1.0UF K	
C807			CK73GB0J105K	CHIP C 1.0UF K	
C809			CK73GB0J105K	CHIP C 1.0UF K	
C990			CK73GB1E223K	CHIP C 0.022UF K	
CN2			E41-1822-05	FLAT CABLE CONNECTOR	
CN4			E40-6526-05	PIN ASSY	K
J1			E58-0991-05	RECTANGULAR RECEPTACLE	
J2			E04-0334-05	RF COAXIAL CABLE RECEPTACLE	
J3			E58-1060-15	RECTANGULAR RECEPTACLE	
J4			E56-0855-05	CYLINDRICAL RECEPTACLE	K
J5			E63-0941-05	PIN JACK	KK1K2
J5			E63-0941-05	PIN JACK	K3
L1			L33-2319-05	CHOKE COIL ASSY	
L401			L40-4791-58	SMALL FIXED INDUCTOR	
X1			L78-0879-05	RESONATOR (10.0MHZ)	
X2			L77-2920-05	CRYSTAL RESONATOR	
F	2D		N80-3010-48	PAN HEAD SCREW (RCA - REAR PNL)	KK1K2
F	2D		N80-3010-48	PAN HEAD SCREW (RCA - REAR PNL)	K3
G	2D		N83-3005-48	PAN HEAD SCREW (ANT - REAR PNL)	
H	2D		N83-3016-48	PAN HEAD SCREW (P.I.C - 786) x2	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
J	3D		N86-2606-48	BIND HEAD SCREW (REAR PNL - TR)	
L	2D		N89-3010-48	BIND HEAD SCREW (COIL - 786)	
L	2D		N89-3010-48	BIND HEAD SCREW (REAR PNL - 786)	
R1			RD14BB2C102J	RD 1.0K J 1/6W	
R2			RD14BB2C103J	RD 10K J 1/6W	KK1K2
R2			RD14BB2C103J	RD 10K J 1/6W	K3
R3-5			RD14BB2C103J	RD 10K J 1/6W	
R11			RD14DB2H100J	SMALL-RD 10 J 1/2W	KK1K2
R12-14			RK73PB2H100J	CHIP R 10 J 1/2W	KK1K2
R15			RD14DB2H100J	SMALL-RD 10 J 1/2W	KK1K2
R16			RK73FB2B681J	CHIP R 680 J 1/8W	KK1K2
R17			RK73GB2A272J	CHIP R 2.7K J 1/10W	KK1K2
R18			RK73GB2A473J	CHIP R 47K J 1/10W	KK1K2
R101			RD14BB2C472J	RD 4.7K J 1/6W	KK1K2
R101			RD14BB2C472J	RD 4.7K J 1/6W	K3
R103			RD14BB2C103J	RD 10K J 1/6W	
R104			RK73GB2A473J	CHIP R 47K J 1/10W	
R105			RK73GB2A104J	CHIP R 100K J 1/10W	
R106			RD14BB2C332J	RD 3.3K J 1/6W	
R107			RD14BB2C333J	RD 33K J 1/6W	
R108			RK73GB2A103J	CHIP R 10K J 1/10W	
R109			RD14BB2C223J	RD 22K J 1/6W	
R110			RK73FB2B683J	CHIP R 68K J 1/8W	
R111			RK73GB2A473J	CHIP R 47K J 1/10W	
R112			RD14BB2C203J	RD 20K J 1/6W	
R113			RK73GB2A104J	CHIP R 100K J 1/10W	
R114,115			RK73GB2A103J	CHIP R 10K J 1/10W	
R116,117			RD14BB2C103J	RD 10K J 1/6W	
R201			RK73GB2A473J	CHIP R 47K J 1/10W	K
R202			RK73GB2A104J	CHIP R 100K J 1/10W	K
R203,204			RK73GB2A103J	CHIP R 10K J 1/10W	
R205-207			RK73GB2A473J	CHIP R 47K J 1/10W	
R208			RD14BB2C473J	RD 47K J 1/6W	
R209,210			RD14BB2C471J	RD 470 J 1/6W	
R218			RK73GB2A223J	CHIP R 22K J 1/10W	
R219,220			RD14BB2C104J	RD 100K J 1/6W	K
R223			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R225			RK73GB2A473J	CHIP R 47K J 1/10W	K4
R226			RK73GB2A223J	CHIP R 22K J 1/10W	K4
R226			RK73GB2A473J	CHIP R 47K J 1/10W	KK1K2
R226			RK73GB2A473J	CHIP R 47K J 1/10W	K3
R227			RK73GB2A473J	CHIP R 47K J 1/10W	K2
R228			RK73GB2A223J	CHIP R 22K J 1/10W	K2
R228			RK73GB2A473J	CHIP R 47K J 1/10W	K1
R229			RK73GB2A104J	CHIP R 100K J 1/10W	K
R301			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R302			RD14BB2C101J	RD 100 J 1/6W	
R303			RK73GB2A102J	CHIP R 1.0K J 1/10W	KK1K2
R304			RD14BB2C102J	RD 1.0K J 1/6W	KK1K2
R305			RK73GB2A102J	CHIP R 1.0K J 1/10W	KK1K2
R306			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R307			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R310,311			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R312			RK73GB2A102J	CHIP R 1.0K J 1/10W	KK1K2

K : KDC-MP238 K1 : KDC-MP238CR K2 : KDC-MP208
 K3 : KDC-138 K4 : KDC-138CR

△Indicates safety critical components.

PARTS LIST

DESTINATION "K"

ELECTRIC UNIT (X34-56xx-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
R313			RK73GB2A102J	CHIP R 1.0K J 1/10W		R711,712			RD14BB2C181J	RD 180 J 1/6W	K
R314			RK73GB2A104J	CHIP R 100K J 1/10W		R801			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R315			RK73GB2A472J	CHIP R 4.7K J 1/10W		R802			RK73GB2A333J	CHIP R 33K J 1/10W	
R316			RK73GB2A222J	CHIP R 2.2K J 1/10W	KK1K2	R803			RK73GB2A473J	CHIP R 47K J 1/10W	
R316			RK73GB2A472J	CHIP R 4.7K J 1/10W	K3K4	R804			RK73GB2A331J	CHIP R 330 J 1/10W	
R317			RK73GB2A222J	CHIP R 2.2K J 1/10W		R805			RK73GB2A223J	CHIP R 22K J 1/10W	
R318			RK73GB2A472J	CHIP R 4.7K J 1/10W		R806			RK73GB2A912J	CHIP R 9.1K J 1/10W	
R319			RK73GB2A222J	CHIP R 2.2K J 1/10W		R808			RK73GB2A100J	CHIP R 10 J 1/10W	
R320			RK73GB2A472J	CHIP R 4.7K J 1/10W		R894			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R321			RK73GB2A473J	CHIP R 47K J 1/10W	KK1K2	R958			RK73GB2A000J	CHIP R 0.0 J 1/10W	KK1K2
R322			RK73GB2A471J	CHIP R 470 J 1/10W	KK1K2	R958			RK73GB2A000J	CHIP R 0.0 J 1/10W	K3
R330			RD14BB2C101J	RD 100 J 1/6W		R961			RK73GB2A000J	CHIP R 0.0 J 1/10W	K3K4
R331			RK73GB2A392J	CHIP R 3.9K J 1/10W		R962			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R332			RD14BB2C101J	RD 100 J 1/6W		R971			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R333			RD14BB2C102J	RD 1.0K J 1/6W	KK1K2						
R333			RD14BB2C102J	RD 1.0K J 1/6W	K4	D1			S2V60-5009F46	DIODE	
R334			RD14BB2C102J	RD 1.0K J 1/6W		D2			MTZJ8.2 (B)	ZENER DIODE	
R335			RK73GB2A473J	CHIP R 47K J 1/10W		D3			D1F60-5063	DIODE	
R336-339			RD14BB2C222J	RD 2.2K J 1/6W		D7			MTZJ12 (B)	ZENER DIODE	KK1K2
R340			RK73GB2A225J	CHIP R 2.2M J 1/10W	KK1K2	D101,102			D1F60-5063	DIODE	KK1K2
R340			RK73GB2A225J	CHIP R 2.2M J 1/10W	K4	D101,102			D1F60-5063	DIODE	K3
R341			RD14BB2C222J	RD 2.2K J 1/6W		D105			MTZJ4.7 (B)	ZENER DIODE	
R342			RK73GB2A392J	CHIP R 3.9K J 1/10W		D106-108			MTZJ6.8 (B)	ZENER DIODE	
R343			RD14BB2C102J	RD 1.0K J 1/6W		D110			BAV70W	DIODE	
R344,345			RD14BB2C4R7J	RD 4.7 J 1/6W		D304-306			MTZJ6.8 (B)	ZENER DIODE	
R346			RD14BB2C2R2J	RD 2.2 J 1/6W		D401			1SS133	DIODE	
R347			RK73GB2A102J	CHIP R 1.0K J 1/10W		D601-606			MTZJ6.8 (B)	ZENER DIODE	K
R348,349			RK73GB2A103J	CHIP R 10K J 1/10W		D801			1SS133	DIODE	
R352,353			RD14BB2C471J	RD 470 J 1/6W		D803			1SS133	DIODE	
R401			RK73GB2A103J	CHIP R 10K J 1/10W		IC1	*		30302MAPA85FP	MICROCONTROLLER IC	K3K4
R402,403			RD14BB2C471J	RD 470 J 1/6W		IC1	*		30622MEPB51FP	MICROCONTROLLER IC	K1K2
R501			RK73GB2A471J	CHIP R 470 J 1/10W		IC1	*		30622MGPB52FP	MICROCONTROLLER IC	K
R502			RD14BB2C472J	RD 4.7K J 1/6W		IC2			E-TDA7719	ANALOGUE IC	
R503			RK73GB2A471J	CHIP R 470 J 1/10W		IC4			BD4913-V4	ANALOGUE IC	
R504			RD14BB2C472J	RD 4.7K J 1/6W		IC6	*		KKZ12Z	ANALOGUE IC	
R599			RK73GB2A102J	CHIP R 1.0K J 1/10W		IC8	*		XC6120N362N1	MOS-IC	
R601,602			RD14BB2C100J	RD 10 J 1/6W	K	Q2			KTA1046-P	TRANSISTOR	
R603			RD14BB2C4R7J	RD 4.7 J 1/6W	K	Q3			2SC4081	TRANSISTOR	
R604			RK73GB2A102J	CHIP R 1.0K J 1/10W	K	Q7			KRC403-P	TRANSISTOR	KK1K2
R605			RD14BB2C101J	RD 100 J 1/6W	K	Q8			KTA1046-P	TRANSISTOR	KK1K2
R606,607			RD14BB2C102J	RD 1.0K J 1/6W	K	Q9			2SC4081	TRANSISTOR	KK1K2
R608,609			RD14BB2C101J	RD 100 J 1/6W	K	Q10			KRA303-P	TRANSISTOR	KK1K2
R610			RD14BB2C472J	RD 4.7K J 1/6W	K	Q11			KRC403-P	TRANSISTOR	
R611			RD14BB2C101J	RD 100 J 1/6W	K	Q12			KRA303-P	TRANSISTOR	
R612			RD14BB2C472J	RD 4.7K J 1/6W	K	Q101-103			2SC4081	TRANSISTOR	
R613,614			RK73GB2A100J	CHIP R 10 J 1/10W	K	Q104,105			KRC404-P	TRANSISTOR	
R615			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	K	Q301			KRA307-P	TRANSISTOR	
R701,702			RK73GB2A331J	CHIP R 330 J 1/10W	KK1K2	Q701,702			KRC410-P	TRANSISTOR	KK1K2
R701,702			RK73GB2A331J	CHIP R 330 J 1/10W	K3	Q701,702			KRC410-P	TRANSISTOR	K3
R703,704			RD14BB2C223J	RD 22K J 1/6W	KK1K2	Q703,704			KRC410-P	TRANSISTOR	K
R703,704			RD14BB2C223J	RD 22K J 1/6W	K3	Q705			KRA303-P	TRANSISTOR	KK1K2
R705,706			RD14BB2C181J	RD 180 J 1/6W	KK1K2	Q705			KRA303-P	TRANSISTOR	K3
R705,706			RD14BB2C181J	RD 180 J 1/6W	K3	Q801			RT1N144M	TRANSISTOR	
R707,708			RK73GB2A331J	CHIP R 330 J 1/10W	K	TH1			PRF18BE471QS2	POSITIVE RESISTOR	
R709,710			RD14BB2C223J	RD 22K J 1/6W	K	A1	2D	*	X86-4160-11	FRONT-END UNIT	

K : KDC-MP238 K1 : KDC-MP238CR K2 : KDC-MP208
K3 : KDC-138 K4 : KDC-138CR

△ Indicates safety critical components.

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.

DESTINATION “M”

EXPLODED VIEW is on page 2.

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
ELECTRIC UNIT (X34-56xx-xx)					
C1			CD04AZ1C332M2	ELECTRO 3300UF 16WV	
C2			CD04AB1C220M	ELECTRO 22UF 16WV	
C3,4			CK73GB1H104K	CHIP C 0.10UF K	
C5			CD04AR1C221M	ELECTRO 220UF 16WV	
C7			CD04AB0J101M	ELECTRO 100UF 6.3WV	
C9			CK73GB1C104K	CHIP C 0.10UF K	
C11			CK73FB1A225K	CHIP C 2.2UF K	
C12			CK73GB1C104K	CHIP C 0.10UF K	
C14			CK73GB1C104K	CHIP C 0.10UF K	
C15			CD04AB1C220M	ELECTRO 22UF 16WV	M1M2M3
C15			CD04AB1C220M	ELECTRO 22UF 16WV	M4M5
C17			CK73GB1C104K	CHIP C 0.10UF K	
C18			CK73GB1C104K	CHIP C 0.10UF K	M1M2M3
C18			CK73GB1C104K	CHIP C 0.10UF K	M4M5
C101,102			CK73GB1H103K	CHIP C 0.010UF K	
G202			CC73GCH1H180J	CHIP C 18PF J	
C203			CC73GCH1H220J	CHIP C 22PF J	
C204			CK73GB1C104K	CHIP C 0.10UF K	
C205			CK73GB1H102K	CHIP C 1000PF K	
C301,302			CD04AB1HR47M	ELECTRO 0.47UF 50WV	
C306,307			CK73GB1C104K	CHIP C 0.10UF K	
C308			CD04AB0J470M	ELECTRO 47UF 6.3WV	
C310,311			CK73GB1H102K	CHIP C 1000PF K	
C401			CD04AB1C470M	ELECTRO 47UF 16WV	
C403			CD04AB1H010M	ELECTRO 1.0UF 50WV	
C404-407			CK73GB1A105K	CHIP C 1.0UF K	
C509,510			CK73GB1C104K	CHIP C 0.10UF K	
C601,602			CK73GB1C104K	CHIP C 0.10UF K	M1
C603			CD04AC0J470M	ELECTRO 47UF 6.3WV	M1
C701,702			CD04AB1V100M	ELECTRO 10UF 35WV	
C705,706			CD04AB1V100M	ELECTRO 10UF 35WV	M1
C801-804			CK73GB1A224K	CHIP C 0.22UF K	
C805			CD04AB1C330M	ELECTRO 33UF 16WV	
C806			CK73GB1A105K	CHIP C 1.0UF K	
C807			CK73GB0J105K	CHIP C 1.0UF K	
C809			CK73GB0J105K	CHIP C 1.0UF K	
C990			CK73GB1E223K	CHIP C 0.022UF K	
CN2			E41-1822-05	FLAT CABLE CONNECTOR	
CN4			E40-6526-05	PIN ASSY	M1
J1			E58-0991-05	RECTANGULAR RECEPTACLE	
J2			E04-0334-05	RF COAXIAL CABLE RECEPTACLE	
J3			E58-1060-15	RECTANGULAR RECEPTACLE	
J4			E56-0855-05	CYLINDRICAL RECEPTACLE	M1
J5			E63-0941-05	PIN JACK	
L1			L33-2319-05	CHOKE COIL ASSY	
L401			L40-4791-58	SMALL FIXED INDUCTOR	
X1			L78-0879-05	RESONATOR (10.0MHZ)	
X2			L77-2920-05	CRYSTAL RESONATOR	
F	2D		N80-3010-48	PAN HEAD SCREW (RCA - REAR PNL)	
G	2D		N83-3005-48	PAN HEAD SCREW (ANT - REAR PNL)	
H	2D		N83-3016-48	PAN HEAD SCREW (P.I.C - 786) x2	
J	3D		N86-2606-48	BIND HEAD SCREW (REAR PNL - TR)	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
L	2D		N89-3010-48	BIND HEAD SCREW (COIL - 786)	
L	2D		N89-3010-48	BIND HEAD SCREW (REAR PNL - 786)	
R1			RD14BB2C102J	RD 1.0K J 1/6W	
R2-5			RD14BB2C103J	RD 10K J 1/6W	
R11			RD14DB2H100J	SMALL-RD 10 J 1/2W	M1M2M3
R11			RD14DB2H100J	SMALL-RD 10 J 1/2W	M4M5
R12-14			RK73PB2H100J	CHIP R 10 J 1/2W	M1M2M3
R12-14			RK73PB2H100J	CHIP R 10 J 1/2W	M4M5
R15			RD14DB2H100J	SMALL-RD 10 J 1/2W	M1M2M3
R15			RD14DB2H100J	SMALL-RD 10 J 1/2W	M4M5
R16			RK73FB2B681J	CHIP R 680 J 1/8W	M1M2M3
R16			RK73FB2B681J	CHIP R 680 J 1/8W	M4M5
R17			RK73GB2A272J	CHIP R 2.7K J 1/10W	M1M2M3
R17			RK73GB2A272J	CHIP R 2.7K J 1/10W	M4M5
R18			RK73GB2A473J	CHIP R 47K J 1/10W	M1M2M3
R18			RK73GB2A473J	CHIP R 47K J 1/10W	M4M5
R101,102			RD14BB2C472J	RD 4.7K J 1/6W	
R101,102			RD14BB2C472J	RD 4.7K J 1/6W	
R103			RD14BB2C103J	RD 10K J 1/6W	
R104			RK73GB2A473J	CHIP R 47K J 1/10W	
R105			RK73GB2A104J	CHIP R 100K J 1/10W	
R106			RD14BB2C332J	RD 3.3K J 1/6W	
R107			RD14BB2C333J	RD 33K J 1/6W	
R108			RK73GB2A103J	CHIP R 10K J 1/10W	
R109			RD14BB2C223J	RD 22K J 1/6W	
R110			RK73FB2B683J	CHIP R 68K J 1/8W	
R111			RK73GB2A473J	CHIP R 47K J 1/10W	
R112			RD14BB2C203J	RD 20K J 1/6W	
R113			RK73GB2A104J	CHIP R 100K J 1/10W	
R114,115			RK73GB2A103J	CHIP R 10K J 1/10W	
R116,117			RD14BB2C103J	RD 10K J 1/6W	
R201			RK73GB2A473J	CHIP R 47K J 1/10W	M1
R202			RK73GB2A104J	CHIP R 100K J 1/10W	M1
R203,204			RK73GB2A103J	CHIP R 10K J 1/10W	
R205-207			RK73GB2A473J	CHIP R 47K J 1/10W	
R208			RD14BB2C473J	RD 47K J 1/6W	
R209,210			RD14BB2C471J	RD 470 J 1/6W	
R218			RK73GB2A223J	CHIP R 22K J 1/10W	
R219,220			RD14BB2C104J	RD 100K J 1/6W	M1
R223			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R225			RK73GB2A473J	CHIP R 47K J 1/10W	
R226			RK73GB2A223J	CHIP R 22K J 1/10W	M1M2M3
R226			RK73GB2A223J	CHIP R 22K J 1/10W	M4M5
R226			RK73GB2A473J	CHIP R 47K J 1/10W	M6M7
R228			RK73GB2A473J	CHIP R 47K J 1/10W	M2M3M4
R228			RK73GB2A473J	CHIP R 47K J 1/10W	M5
R229			RK73GB2A104J	CHIP R 100K J 1/10W	M1
R301			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R302			RD14BB2C101J	RD 100 J 1/6W	
R303			RK73GB2A102J	CHIP R 1.0K J 1/10W	M1M2M3
R303			RK73GB2A102J	CHIP R 1.0K J 1/10W	M4M5
R304			RD14BB2C102J	RD 1.0K J 1/6W	M1M2M3
R304			RD14BB2C102J	RD 1.0K J 1/6W	M4M5
R305			RK73GB2A102J	CHIP R 1.0K J 1/10W	M1M2M3

M1 : KDC-MP439 M2 : KDC-MP239 M3 : KDC-MP3039 M4 : KDC-MP339
M5 : KDC-MP339S M6 : KDC-139 M7 : KDC-139S

△Indicates safety critical components.

PARTS LIST

DESTINATION "M"

ELECTRIC UNIT (X34-56xx-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R305			RK73GB2A102J	CHIP R 1.0K J 1/10W	M4M5	R615			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	M1
R306			RK73GB2A472J	CHIP R 4.7K J 1/10W		R701,702			RK73GB2A331J	CHIP R 330 J 1/10W	
R307			RK73GB2A222J	CHIP R 2.2K J 1/10W		R703,704			RD14BB2C223J	RD 22K J 1/6W	
R310,311			RK73GB2A102J	CHIP R 1.0K J 1/10W		R705,706			RD14BB2C181J	RD 180 J 1/6W	
R312			RK73GB2A102J	CHIP R 1.0K J 1/10W	M1M2M3	R707,708			RK73GB2A331J	CHIP R 330 J 1/10W	M1
R312			RK73GB2A102J	CHIP R 1.0K J 1/10W	M4M5	R709,710			RD14BB2C223J	RD 22K J 1/6W	M1
R313			RK73GB2A102J	CHIP R 1.0K J 1/10W		R711,712			RD14BB2C181J	RD 180 J 1/6W	M1
R314			RK73GB2A104J	CHIP R 100K J 1/10W		R711,712			RD14BB2C181J	RD 180 J 1/6W	M1
R315			RK73GB2A472J	CHIP R 4.7K J 1/10W		R801			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R316			RK73GB2A222J	CHIP R 2.2K J 1/10W	M1M2M3	R802			RK73GB2A333J	CHIP R 33K J 1/10W	
R316			RK73GB2A222J	CHIP R 2.2K J 1/10W	M4M5	R803			RK73GB2A473J	CHIP R 47K J 1/10W	
R316			RK73GB2A472J	CHIP R 4.7K J 1/10W	M6M7	R804			RK73GB2A331J	CHIP R 330 J 1/10W	
R317			RK73GB2A222J	CHIP R 2.2K J 1/10W		R805			RK73GB2A223J	CHIP R 22K J 1/10W	
R318			RK73GB2A472J	CHIP R 4.7K J 1/10W		R806			RK73GB2A912J	CHIP R 9.1K J 1/10W	
R319			RK73GB2A222J	CHIP R 2.2K J 1/10W		R808			RK73GB2A100J	CHIP R 10 J 1/10W	
R320			RK73GB2A472J	CHIP R 4.7K J 1/10W		R894			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R321			RK73GB2A473J	CHIP R 47K J 1/10W	M1M2M3	R953			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R321			RK73GB2A473J	CHIP R 47K J 1/10W	M4M5	R958			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R322			RK73GB2A471J	CHIP R 470 J 1/10W	M1M2M3	R961			RK73GB2A000J	CHIP R 0.0 J 1/10W	M6M7
R322			RK73GB2A471J	CHIP R 470 J 1/10W	M4M5	R962			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R330			RD14BB2C101J	RD 100 J 1/6W		R971			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R331			RK73GB2A392J	CHIP R 3.9K J 1/10W		D1			S2V60-5009F46	DIODE	
R332			RD14BB2C101J	RD 100 J 1/6W		D2			MTZJ8.2 (B)	ZENER DIODE	
R333			RD14BB2C102J	RD 1.0K J 1/6W	M1M2M3	D3			D1F60-5063	DIODE	
R333			RD14BB2C102J	RD 1.0K J 1/6W	M4M5	D4,5			1SS133	DIODE	
R334			RD14BB2C102J	RD 1.0K J 1/6W		D7			MTZJ12 (B)	ZENER DIODE	M1M2M3
R335			RK73GB2A473J	CHIP R 47K J 1/10W		D7			MTZJ12 (B)	ZENER DIODE	M4M5
R336-339			RD14BB2C222J	RD 2.2K J 1/6W		D101,102			D1F60-5063	DIODE	
R340			RK73GB2A225J	CHIP R 2.2M J 1/10W	M1M2M3	D103			1SR139-400T64	DIODE	
R340			RK73GB2A225J	CHIP R 2.2M J 1/10W	M4M5	D104			D1F60-5063	DIODE	
R341			RD14BB2C222J	RD 2.2K J 1/6W		D105			MTZJ4.7 (B)	ZENER DIODE	
R342			RK73GB2A392J	CHIP R 3.9K J 1/10W		D106-108			MTZJ6.8 (B)	ZENER DIODE	
R343			RD14BB2C102J	RD 1.0K J 1/6W		D110			BAV70W	DIODE	
R344,345			RD14BB2C4R7J	RD 4.7 J 1/6W		D304-306			MTZJ6.8 (B)	ZENER DIODE	
R346			RD14BB2C2R2J	RD 2.2 J 1/6W		D401			1SS133	DIODE	
R347			RK73GB2A102J	CHIP R 1.0K J 1/10W		D601-606			MTZJ6.8 (B)	ZENER DIODE	M1
R348,349			RK73GB2A103J	CHIP R 10K J 1/10W		D801			1SS133	DIODE	
R352,353			RD14BB2C471J	RD 470 J 1/6W		D803			1SS133	DIODE	
R401			RK73GB2A103J	CHIP R 10K J 1/10W		IC1	*		30302MAPA85FP	MICROCONTROLLER IC	M6M7
R402,403			RD14BB2C471J	RD 470 J 1/6W		IC1	*		30622MEPB51FP	MICROCONTROLLER IC	M2M3M4
R501			RK73GB2A471J	CHIP R 470 J 1/10W		IC1	*		30622MEPB51FP	MICROCONTROLLER IC	M5
R502			RD14BB2C472J	RD 4.7K J 1/6W		IC1	*		30622MGPB52FP	MICROCONTROLLER IC	M1
R503			RK73GB2A471J	CHIP R 470 J 1/10W		IC2			E-TDA7719	ANALOGUE IC	
R504			RD14BB2C472J	RD 4.7K J 1/6W		IC4			BD4913-V4	ANALOGUE IC	
R599			RK73GB2A102J	CHIP R 1.0K J 1/10W		IC6	*		KKZ12Z	ANALOGUE IC	
R601,602			RD14BB2C100J	RD 10 J 1/6W	M1	IC8	*		XC6120N362N1	MOS-IC	
R603			RD14BB2C4R7J	RD 4.7 J 1/6W	M1	Q2			KTA1046-P	TRANSISTOR	
R604			RK73GB2A102J	CHIP R 1.0K J 1/10W	M1	Q3			2SC4081	TRANSISTOR	
R605			RD14BB2C101J	RD 100 J 1/6W	M1	Q7			KRC403-P	TRANSISTOR	M1M2M3
R606,607			RD14BB2C102J	RD 1.0K J 1/6W	M1	Q7			KRC403-P	TRANSISTOR	M4M5
R608,609			RD14BB2C101J	RD 100 J 1/6W	M1	Q8			KTA1046-P	TRANSISTOR	M1M2M3
R610			RD14BB2C472J	RD 4.7K J 1/6W	M1	Q8			KTA1046-P	TRANSISTOR	M4M5
R611			RD14BB2C101J	RD 100 J 1/6W	M1	Q9			2SC4081	TRANSISTOR	M1M2M3
R612			RD14BB2C472J	RD 4.7K J 1/6W	M1	Q9			2SC4081	TRANSISTOR	M4M5
R613,614			RK73GB2A100J	CHIP R 10 J 1/10W	M1						

M1 : KDC-MP439 M2 : KDC-MP239 M3 : KDC-MP3039 M4 : KDC-MP339
M5 : KDC-MP339S M6 : KDC-139 M7 : KDC-139S

△ Indicates safety critical components.

X34-56xx-xx

PARTS LIST

DESTINATION “M”

ELECTRIC UNIT (X34-56xx-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
Q10			KRA303-P	TRANSISTOR	M1M2M3						
Q10			KRA303-P	TRANSISTOR	M4M5						
Q11			KRC403-P	TRANSISTOR							
Q12			KRA303-P	TRANSISTOR							
Q13			KRC403-P	TRANSISTOR							
Q14			KRA303-P	TRANSISTOR							
Q101-103			2SC4081	TRANSISTOR							
Q104,105			KRC404-P	TRANSISTOR							
Q301			KRA307-P	TRANSISTOR							
Q701,702			KRC410-P	TRANSISTOR							
Q703,704			KRC410-P	TRANSISTOR	M1						
Q705			KRA303-P	TRANSISTOR							
Q801			RT1N144M	TRANSISTOR							
TH1			PRF18BE471QS2	POSITIVE RESISTOR							
A1	2D	*	X86-4160-11	FRONT-END UNIT							

M1 : KDC-MP439 M2 : KDC-MP239 M3 : KDC-MP3039 M4 : KDC-MP339
M5 : KDC-MP339S M6 : KDC-139 M7 : KDC-139S

△Indicates safety critical components.

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.

DESTINATION "E" (Western Europe)

EXPLODED VIEW is on page 2.

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
ELECTRIC UNIT (X34-56xx-xx)					
C1			CD04AZ1C332M2	ELECTRO 3300UF 16WV	
C2			CD04AB1C220M	ELECTRO 22UF 16WV	
C3			CK73GB1H104K	CHIP C 0.10UF K	
C5			CD04AR1C221M	ELECTRO 220UF 16WV	
C7			CD04AB0J101M	ELECTRO 100UF 6.3WV	
C9			CK73GB1C104K	CHIP C 0.10UF K	
C11			CK73FB1A225K	CHIP C 2.2UF K	
C12			CK73GB1C104K	CHIP C 0.10UF K	
C14			CK73GB1C104K	CHIP C 0.10UF K	
C15			CD04AB1C220M	ELECTRO 22UF 16WV	
C16			CK73GB1H103K	CHIP C 0.010UF K	
C17,18			CK73GB1C104K	CHIP C 0.10UF K	
C101,102			CK73GB1H103K	CHIP C 0.010UF K	
C202			CC73GCH1H180J	CHIP C 18PF J	
C203			CC73GCH1H220J	CHIP C 22PF J	
C204			CK73GB1C104K	CHIP C 0.10UF K	
C205			CK73GB1H102K	CHIP C 1000PF K	
C301,302			CD04AB1HR47M	ELECTRO 0.47UF 50WV	
C306,307			CK73GB1C104K	CHIP C 0.10UF K	
C308			CD04AB0J470M	ELECTRO 47UF 6.3WV	
C310,311			CK73GB1H102K	CHIP C 1000PF K	
C401			CD04AB1C470M	ELECTRO 47UF 16WV	
C403			CD04AB1H010M	ELECTRO 1.0UF 50WV	
C404-407			CK73GB1A105K	CHIP C 1.0UF K	
C509,510			CK73GB1C104K	CHIP C 0.10UF K	
C512			CK73GB1C104K	CHIP C 0.10UF K	
C513			CD04AB1V100M	ELECTRO 10UF 35WV	
C514			CC73GCH1H331J	CHIP C 330PF J	
C515,516			CC73GCH1H270J	CHIP C 27PF J	
C517			CC73GCH1H561J	CHIP C 560PF J	
C701,702			CD04AB1V100M	ELECTRO 10UF 35WV	EE1E2
C701,702			CD04AB1V100M	ELECTRO 10UF 35WV	E3
C703,704			CC73GCH1H681J	CHIP C 680PF J	EE1E2
C703,704			CC73GCH1H681J	CHIP C 680PF J	E3
C801-804			CK73GB1A224K	CHIP C 0.22UF K	
C805			CD04AB1C330M	ELECTRO 33UF 16WV	
C806			CK73GB1A105K	CHIP C 1.0UF K	
C807			CK73GB0J105K	CHIP C 1.0UF K	
C809			CK73GB0J105K	CHIP C 1.0UF K	
C901-908			CK73GB1H472K	CHIP C 4700PF K	
C990			CK73GB1E223K	CHIP C 0.022UF K	
CN2			E41-1822-05	FLAT CABLE CONNECTOR	
J1			E58-0991-05	RECTANGULAR RECEPTACLE	
J2			E04-0334-05	RF COAXIAL CABLE RECEPTACLE	
J3			E58-1060-15	RECTANGULAR RECEPTACLE	
J5			E63-0941-05	PIN JACK	EE1E2
J5			E63-0941-05	PIN JACK	E3
L1			L33-2319-05	CHOKE COIL ASSY	
L401			L40-4791-58	SMALL FIXED INDUCTOR	
X1			L78-0879-05	RESONATOR (10.0MHZ)	
X2			L77-2920-05	CRYSTAL RESONATOR	
X3			L77-2002-05	CRYSTAL RESONATOR	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
F	2D		N80-3010-48	PAN HEAD SCREW (RCA - REAR PNL)	EE1E2
F	2D		N80-3010-48	PAN HEAD SCREW (RCA - REAR PNL)	E3
G	2D		N83-3005-48	PAN HEAD SCREW (ANT - REAR PNL)	
H	2D		N83-3016-48	PAN HEAD SCREW (P.I.C - 786) x2	
J	3D		N86-2606-48	BIND HEAD SCREW (REAR PNL - TR)	
L	2D		N89-3010-48	BIND HEAD SCREW (COIL - 786)	
L	2D		N89-3010-48	BIND HEAD SCREW (REAR PNL - 786)	
R1			RD14BB2C102J	RD 1.0K J 1/6W	
R2-5			RD14BB2C103J	RD 10K J 1/6W	
R11			RD14DB2H100J	SMALL-RD 10 J 1/2W	
R12-14			RK73PB2H100J	CHIP R 10 J 1/2W	
R15			RD14DB2H100J	SMALL-RD 10 J 1/2W	
R16			RK73FB2B681J	CHIP R 680 J 1/8W	
R17			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R18			RK73GB2A473J	CHIP R 47K J 1/10W	
R101,102			RD14BB2C472J	RD 4.7K J 1/6W	
R103			RD14BB2C103J	RD 10K J 1/6W	
R104			RK73GB2A473J	CHIP R 47K J 1/10W	
R105			RK73GB2A104J	CHIP R 100K J 1/10W	
R106			RD14BB2C332J	RD 3.3K J 1/6W	
R107			RD14BB2C333J	RD 33K J 1/6W	
R108			RK73GB2A103J	CHIP R 10K J 1/10W	
R109			RD14BB2C223J	RD 22K J 1/6W	
R110			RK73FB2B683J	CHIP R 68K J 1/8W	
R111			RK73GB2A473J	CHIP R 47K J 1/10W	
R112			RD14BB2C203J	RD 20K J 1/6W	
R113			RK73GB2A104J	CHIP R 100K J 1/10W	
R114,115			RK73GB2A103J	CHIP R 10K J 1/10W	
R116,117			RD14BB2C103J	RD 10K J 1/6W	
R203,204			RK73GB2A103J	CHIP R 10K J 1/10W	
R205-207			RK73GB2A473J	CHIP R 47K J 1/10W	
R208			RD14BB2C473J	RD 47K J 1/6W	
R209,210			RD14BB2C471J	RD 470 J 1/6W	
R218			RK73GB2A223J	CHIP R 22K J 1/10W	
R221			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R223			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R225,226			RK73GB2A473J	CHIP R 47K J 1/10W	EE1E2
R225,226			RK73GB2A473J	CHIP R 47K J 1/10W	E3
R228			RK73GB2A473J	CHIP R 47K J 1/10W	EE1E2
R228			RK73GB2A473J	CHIP R 47K J 1/10W	E3
R301			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R302			RD14BB2C101J	RD 100 J 1/6W	
R303			RK73GB2A102J	CHIP R 1.0K J 1/10W	EE1E2
R303			RK73GB2A102J	CHIP R 1.0K J 1/10W	E3
R304			RD14BB2C102J	RD 1.0K J 1/6W	EE1E2
R304			RD14BB2C102J	RD 1.0K J 1/6W	E3
R305			RK73GB2A102J	CHIP R 1.0K J 1/10W	EE1E2
R305			RK73GB2A102J	CHIP R 1.0K J 1/10W	E3
R306			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R307			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R310,311			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R312			RK73GB2A102J	CHIP R 1.0K J 1/10W	EE1E2
R312			RK73GB2A102J	CHIP R 1.0K J 1/10W	E3
R313			RK73GB2A102J	CHIP R 1.0K J 1/10W	

E : KDC-W3041A E1 : KDC-W3041G E2 : KDC-W312A
E3 : KDC-W312G E4 : KDC-241SA E5 : KDC-241SG

△ Indicates safety critical components.

PARTS LIST

DESTINATION “E” (Western Europe)

ELECTRIC UNIT (X34-56xx-xx)

Ref. No.	Added	New	Parts No.	Description	Destination
R314			RK73GB2A104J	CHIP R 100K J 1/10W	EE1E2 E3 E4E5
R315			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R316			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R316			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R316			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R317			RK73GB2A222J	CHIP R 2.2K J 1/10W	EE1E2
R318			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R319			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R320			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R321			RK73GB2A473J	CHIP R 47K J 1/10W	
R321			RK73GB2A473J	CHIP R 47K J 1/10W	E3 EE1E2 E3
R322			RK73GB2A471J	CHIP R 470 J 1/10W	
R322			RK73GB2A471J	CHIP R 470 J 1/10W	
R330			RD14BB2C101J	RD 100 J 1/6W	
R331			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R332			RD14BB2C101J	RD 100 J 1/6W	EE1E2 E3
R333			RD14BB2C102J	RD 1.0K J 1/6W	
R333			RD14BB2C102J	RD 1.0K J 1/6W	
R334			RD14BB2C102J	RD 1.0K J 1/6W	
R335			RK73GB2A473J	CHIP R 47K J 1/10W	
R336-339			RD14BB2C222J	RD 2.2K J 1/6W	EE1E2 E3
R340			RK73GB2A225J	CHIP R 2.2M J 1/10W	
R340			RK73GB2A225J	CHIP R 2.2M J 1/10W	
R341			RD14BB2C222J	RD 2.2K J 1/6W	
R342			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R343			RD14BB2C102J	RD 1.0K J 1/6W	EE1E2 E3
R344,345			RD14BB2C4R7J	RD 4.7 J 1/6W	
R346			RD14BB2C2R2J	RD 2.2 J 1/6W	
R347			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R348,349			RK73GB2A103J	CHIP R 10K J 1/10W	
R352,353			RD14BB2C471J	RD 470 J 1/6W	EE1E2 E3
R401			RK73GB2A103J	CHIP R 10K J 1/10W	
R402,403			RD14BB2C471J	RD 470 J 1/6W	
R501			RK73GB2A471J	CHIP R 470 J 1/10W	
R502			RD14BB2C472J	RD 4.7K J 1/6W	
R503			RK73GB2A471J	CHIP R 470 J 1/10W	EE1E2 E3
R504			RD14BB2C472J	RD 4.7K J 1/6W	
R506,507			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R508			RD14BB2C222J	RD 2.2K J 1/6W	
R509			RK73GB2A512J	CHIP R 5.1K J 1/10W	
R510			RK73GB2A102J	CHIP R 1.0K J 1/10W	EE1E2 E3
R599			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R701,702			RK73GB2A331J	CHIP R 330 J 1/10W	
R701,702			RK73GB2A331J	CHIP R 330 J 1/10W	
R703,704			RD14BB2C223J	RD 22K J 1/6W	
R703,704			RD14BB2C223J	RD 22K J 1/6W	E3 EE1E2 E3
R705,706			RD14BB2C181J	RD 180 J 1/6W	
R705,706			RD14BB2C181J	RD 180 J 1/6W	
R801			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R802			RK73GB2A333J	CHIP R 33K J 1/10W	
R803			RK73GB2A473J	CHIP R 47K J 1/10W	EE1E2 E3
R804			RK73GB2A331J	CHIP R 330 J 1/10W	
R805			RK73GB2A223J	CHIP R 22K J 1/10W	
R806			RK73GB2A912J	CHIP R 9.1K J 1/10W	
R808			RK73GB2A100J	CHIP R 10 J 1/10W	

Ref. No.	Added	New	Parts No.	Description	Destination
R894			RK73EB2E000J	CHIP R 0.0 J 1/4W	EE1E2 E3
R954			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R958			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R958			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R962			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R971			RK73GB2A000J	CHIP R 0.0 J 1/10W	EE1E2 E3
D1			S2V60-5009F46	DIODE	
D2			MTZJ8.2 (B)	ZENER DIODE	
D3			D1F60-5063	DIODE	
D7			MTZJ12 (B)	ZENER DIODE	
D101,102			D1F60-5063	DIODE	EE1E2 E3
D103			1SR139-400T64	DIODE	
D104			D1F60-5063	DIODE	
D105			MTZJ4.7 (B)	ZENER DIODE	
D106-108			MTZJ6.8 (B)	ZENER DIODE	
D110			BAV70W	DIODE	EE1E2 E3
D304-306			MTZJ6.8 (B)	ZENER DIODE	
D401			1SS133	DIODE	
D801			1SS133	DIODE	
D803			1SS133	DIODE	
IC1	*		30302MAPA86FP	MICROCONTROLLER IC	E4E5
IC1	*		30622MEPB51FP	MICROCONTROLLER IC	EE1E2 E3
IC1	*		30622MEPB51FP	MICROCONTROLLER IC	
IC2			E-TDA7719	ANALOGUE IC	
IC4			BD4913-V4	ANALOGUE IC	
IC6	*		E-TDA7389A	ANALOGUE IC	
IC6	*		KKZ12Z	ANALOGUE IC	EE1E2 E3
IC6	*		KKZ12Z	ANALOGUE IC	
IC7			LC72725KV	ANALOGUE IC	
IC8	*		XC6120N362N1	MOS-IC	
Q2			KTA1046-P	TRANSISTOR	
Q3			2SC4081	TRANSISTOR	EE1E2 E3
Q7			DTC124EUA	DIGITAL TRANSISTOR	
Q8			KTA1046-P	TRANSISTOR	
Q9			2SC4081	TRANSISTOR	
Q10			DTA124EUA	DIGITAL TRANSISTOR	
Q11			DTC124EUA	DIGITAL TRANSISTOR	EE1E2 E3
Q12			DTA124EUA	DIGITAL TRANSISTOR	
Q101-103			2SC4081	TRANSISTOR	
Q104,105			DTC144EUA	DIGITAL TRANSISTOR	
Q301			DTA114YUA	DIGITAL TRANSISTOR	
Q701,702			DTC143TUA	DIGITAL TRANSISTOR	EE1E2 E3
Q701,702			DTC143TUA	DIGITAL TRANSISTOR	
Q705			DTA124EUA	DIGITAL TRANSISTOR	
Q705			DTA124EUA	DIGITAL TRANSISTOR	
Q801			RT1N144M	TRANSISTOR	
TH1			PRF18BE471QS2	POSITIVE RESISTOR	EE1E2 E3
A1	2D	*	X86-4162-70	FRONT-END UNIT	

E : KDC-W3041A E1 : KDC-W3041G E2 : KDC-W312A
E3 : KDC-W312G E4 : KDC-241SA E5 : KDC-241SG

△Indicates safety critical components.

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.

DESTINATION "E" (Eastern Europe)

EXPLODED VIEW is on page 2.

Ref. No.	Ad	New	Parts No.	Description	Destination
ELECTRIC UNIT (X34-56xx-xx)					
C1			CD04AZ1C332M2	ELECTRO 3300UF 16WV	
C2			CD04AB1C220M	ELECTRO 22UF 16WV	
C3			CK73GB1H104K	CHIP C 0.10UF K	
C5			CD04AR1C221M	ELECTRO 220UF 16WV	
C7			CD04AB0J101M	ELECTRO 100UF 6.3WV	
C9			CK73GB1C104K	CHIP C 0.10UF K	
C11			CK73FB1A225K	CHIP C 2.2UF K	
C12			CK73GB1C104K	CHIP C 0.10UF K	
C14			CK73GB1C104K	CHIP C 0.10UF K	
C15			CD04AB1C220M	ELECTRO 22UF 16WV	
C16			CK73GB1H103K	CHIP C 0.010UF K	
C17,18			CK73GB1C104K	CHIP C 0.10UF K	
C101,102			CK73GB1H103K	CHIP C 0.010UF K	
C202			CC73GCH1H180J	CHIP C 18PF J	
C203			CC73GCH1H220J	CHIP C 22PF J	
C204			CK73GB1C104K	CHIP C 0.10UF K	
C205			CK73GB1H102K	CHIP C 1000PF K	
C301,302			CD04AB1HR47M	ELECTRO 0.47UF 50WV	
C306,307			CK73GB1C104K	CHIP C 0.10UF K	
C308			CD04AB0J470M	ELECTRO 47UF 6.3WV	
C310,311			CK73GB1H102K	CHIP C 1000PF K	
C401			CD04AB1C470M	ELECTRO 47UF 16WV	
C403			CD04AB1H010M	ELECTRO 1.0UF 50WV	
C404-407			CK73GB1A105K	CHIP C 1.0UF K	
C509,510			CK73GB1C104K	CHIP C 0.10UF K	
C512			CK73GB1C104K	CHIP C 0.10UF K	EE1E2
C512			CK73GB1C104K	CHIP C 0.10UF K	E3E6
C513			CD04AB1V100M	ELECTRO 10UF 35WV	EE1E2
C513			CD04AB1V100M	ELECTRO 10UF 35WV	E3E6
C514			CC73GCH1H331J	CHIP C 330PF J	EE1E2
C514			CC73GCH1H331J	CHIP C 330PF J	E3E6
C515,516			CC73GCH1H270J	CHIP C 27PF J	EE1E2
C515,516			CC73GCH1H270J	CHIP C 27PF J	E3E6
C517			CC73GCH1H561J	CHIP C 560PF J	EE1E2
C517			CC73GCH1H561J	CHIP C 560PF J	E3E6
C701,702			CD04AB1V100M	ELECTRO 10UF 35WV	EE1E2
C701,702			CD04AB1V100M	ELECTRO 10UF 35WV	E3E6
C703,704			CC73GCH1H681J	CHIP C 680PF J	EE1E2
C703,704			CC73GCH1H681J	CHIP C 680PF J	E3E6
C801-804			CK73GB1A224K	CHIP C 0.22UF K	
C805			CD04AB1C330M	ELECTRO 33UF 16WV	
C806			CK73GB1A105K	CHIP C 1.0UF K	
C807			CK73GB0J105K	CHIP C 1.0UF K	
C809			CK73GB0J105K	CHIP C 1.0UF K	
C901-908			CK73GB1H472K	CHIP C 4700PF K	
C990			CK73GB1E223K	CHIP C 0.022UF K	
CN2			E41-1822-05	FLAT CABLE CONNECTOR	
J1			E58-0991-05	RECTANGULAR RECEPTACLE	
J2			E04-0334-05	RF COAXIAL CABLE RECEPTACLE	
J3			E58-1060-15	RECTANGULAR RECEPTACLE	
J5			E63-0941-05	PIN JACK	EE1E2
J5			E63-0941-05	PIN JACK	E3E6

Ref. No.	Ad	New	Parts No.	Description	Destination
L1			L33-2319-05	CHOKE COIL ASSY	
L401			L40-4791-58	SMALL FIXED INDUCTOR	
X1			L78-0879-05	RESONATOR (10.0MHZ)	
X2			L77-2920-05	CRYSTAL RESONATOR	EE1E2
X3			L77-2002-05	CRYSTAL RESONATOR	
X3			L77-2002-05	CRYSTAL RESONATOR	E3E6
F	2D		N80-3010-48	PAN HEAD SCREW (RCA - REAR PNL)	EE1E2
F	2D		N80-3010-48	PAN HEAD SCREW (RCA - REAR PNL)	E3E6
G	2D		N83-3005-48	PAN HEAD SCREW (ANT - REAR PNL)	
H	2D		N83-3016-48	PAN HEAD SCREW (PIC - 786) x2	
J	3D		N86-2606-48	BIND HEAD SCREW (REAR PNL - TR)	
L	2D		N89-3010-48	BIND HEAD SCREW (COIL - 786)	
L	2D		N89-3010-48	BIND HEAD SCREW (REAR PNL - 786)	
R1			RD14BB2C102J	RD 1.0K J 1/6W	
R2-5			RD14BB2C103J	RD 10K J 1/6W	
R11			RD14DB2H100J	SMALL-RD 10 J 1/2W	
R12-14			RK73PB2H100J	CHIP R 10 J 1/2W	
R15			RD14DB2H100J	SMALL-RD 10 J 1/2W	
R16			RK73FB2B681J	CHIP R 680 J 1/8W	
R17			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R18			RK73GB2A473J	CHIP R 47K J 1/10W	
R101,102			RD14BB2C472J	RD 4.7K J 1/6W	
R103			RD14BB2C103J	RD 10K J 1/6W	
R104			RK73GB2A473J	CHIP R 47K J 1/10W	
R105			RK73GB2A104J	CHIP R 100K J 1/10W	
R106			RD14BB2C332J	RD 3.3K J 1/6W	
R107			RD14BB2C333J	RD 33K J 1/6W	
R108			RK73GB2A103J	CHIP R 10K J 1/10W	
R109			RD14BB2C223J	RD 22K J 1/6W	
R110			RK73FB2B683J	CHIP R 68K J 1/8W	
R111			RK73GB2A473J	CHIP R 47K J 1/10W	
R112			RD14BB2C203J	RD 20K J 1/6W	
R113			RK73GB2A104J	CHIP R 100K J 1/10W	
R114,115			RK73GB2A103J	CHIP R 10K J 1/10W	
R116,117			RD14BB2C103J	RD 10K J 1/6W	
R203,204			RK73GB2A103J	CHIP R 10K J 1/10W	
R205-207			RK73GB2A473J	CHIP R 47K J 1/10W	
R208			RD14BB2C473J	RD 47K J 1/6W	
R209,210			RD14BB2C471J	RD 470 J 1/6W	
R211			RK73GB2A223J	CHIP R 22K J 1/10W	
R221			RK73GB2A222J	CHIP R 2.2K J 1/10W	EE1E2
R221			RK73GB2A222J	CHIP R 2.2K J 1/10W	E3E6
R223			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R225			RK73GB2A223J	CHIP R 22K J 1/10W	EE1E2
R225			RK73GB2A223J	CHIP R 22K J 1/10W	E3E6
R225			RK73GB2A473J	CHIP R 47K J 1/10W	E4E5
R226			RK73GB2A223J	CHIP R 22K J 1/10W	E4E5
R226			RK73GB2A473J	CHIP R 47K J 1/10W	EE1E2
R226			RK73GB2A473J	CHIP R 47K J 1/10W	E3E6
R227			RK73GB2A473J	CHIP R 47K J 1/10W	E4E5
R228			RK73GB2A223J	CHIP R 22K J 1/10W	E4E5
R228			RK73GB2A473J	CHIP R 47K J 1/10W	EE1E2
R228			RK73GB2A473J	CHIP R 47K J 1/10W	E3E6

E : KDC-W3041AY E1 : KDC-W3041GY E2 : KDC-W312AY E3 : KDC-W312GY
 E4 : KDC-W241AY E5 : KDC-W241GY E6 : KDC-W312SAY

△ Indicates safety critical components.

PARTS LIST

DESTINATION “E” (Eastern Europe)

ELECTRIC UNIT (X34-56xx-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R301			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R302			RD14BB2C101J	RD 100 J 1/6W	
R303			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R304			RD14BB2C102J	RD 1.0K J 1/6W	
R305			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R306			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R307			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R310,311			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R312,313			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R314			RK73GB2A104J	CHIP R 100K J 1/10W	
R315			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R316,317			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R318			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R319			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R320			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R321			RK73GB2A473J	CHIP R 47K J 1/10W	
R322			RK73GB2A471J	CHIP R 470 J 1/10W	
R330			RD14BB2C101J	RD 100 J 1/6W	
R331			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R332			RD14BB2C101J	RD 100 J 1/6W	
R333			RD14BB2C102J	RD 1.0K J 1/6W	EE1E2
R333			RD14BB2C102J	RD 1.0K J 1/6W	E3E6
R334			RD14BB2C102J	RD 1.0K J 1/6W	
R335			RK73GB2A473J	CHIP R 47K J 1/10W	
R336-339			RD14BB2C222J	RD 2.2K J 1/6W	
R340			RK73GB2A225J	CHIP R 2.2M J 1/10W	EE1E2
R340			RK73GB2A225J	CHIP R 2.2M J 1/10W	E3E6
R341			RD14BB2C222J	RD 2.2K J 1/6W	
R342			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R343			RD14BB2C102J	RD 1.0K J 1/6W	
R344,345			RD14BB2C4R7J	RD 4.7 J 1/6W	
R346			RD14BB2C2R2J	RD 2.2 J 1/6W	
R347			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R348,349			RK73GB2A103J	CHIP R 10K J 1/10W	
R352,353			RD14BB2C471J	RD 470 J 1/6W	
R401			RK73GB2A103J	CHIP R 10K J 1/10W	
R402,403			RD14BB2C471J	RD 470 J 1/6W	
R501			RK73GB2A471J	CHIP R 470 J 1/10W	
R502			RD14BB2C472J	RD 4.7K J 1/6W	
R503			RK73GB2A471J	CHIP R 470 J 1/10W	
R504			RD14BB2C472J	RD 4.7K J 1/6W	EE1E2
R506,507			RK73GB2A222J	CHIP R 2.2K J 1/10W	E3E6
R506,507			RK73GB2A222J	CHIP R 2.2K J 1/10W	EE1E2
R508			RD14BB2C222J	RD 2.2K J 1/6W	E3E6
R508			RD14BB2C222J	RD 2.2K J 1/6W	
R509			RK73GB2A512J	CHIP R 5.1K J 1/10W	EE1E2
R509			RK73GB2A512J	CHIP R 5.1K J 1/10W	E3E6
R510			RK73GB2A102J	CHIP R 1.0K J 1/10W	EE1E2
R510			RK73GB2A102J	CHIP R 1.0K J 1/10W	E3E6
R599			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R701,702			RK73GB2A331J	CHIP R 330 J 1/10W	EE1E2
R701,702			RK73GB2A331J	CHIP R 330 J 1/10W	E3E6
R703,704			RD14BB2C223J	RD 22K J 1/6W	EE1E2
R703,704			RD14BB2C223J	RD 22K J 1/6W	E3E6
R705,706			RD14BB2C181J	RD 180 J 1/6W	EE1E2

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R705,706			RD14BB2C181J	RD 180 J 1/6W	E3E6
R801			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R802			RK73GB2A333J	CHIP R 33K J 1/10W	
R803			RK73GB2A473J	CHIP R 47K J 1/10W	
R804			RK73GB2A331J	CHIP R 330 J 1/10W	
R805			RK73GB2A223J	CHIP R 22K J 1/10W	
R806			RK73GB2A912J	CHIP R 9.1K J 1/10W	
R808			RK73GB2A100J	CHIP R 10 J 1/10W	
R894			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R954			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R958			RK73GB2A000J	CHIP R 0.0 J 1/10W	EE1E2
R958			RK73GB2A000J	CHIP R 0.0 J 1/10W	E3E6
R962			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R971			RK73GB2A000J	CHIP R 0.0 J 1/10W	
D1			S2V60-5009F46	DIODE	
D2			MTZJ8.2 (B)	ZENER DIODE	
D3			D1F60-5063	DIODE	
D7			MTZJ12 (B)	ZENER DIODE	
D101,102			D1F60-5063	DIODE	
D103			1SR139-400T64	DIODE	
D104			D1F60-5063	DIODE	
D105			MTZJ4.7 (B)	ZENER DIODE	
D106-108			MTZJ6.8 (B)	ZENER DIODE	
D110			BAV70W	DIODE	
D304-306			MTZJ6.8 (B)	ZENER DIODE	
D401			1SS133	DIODE	
D801			1SS133	DIODE	
D803			1SS133	DIODE	
IC1		*	30622MEPB51FP	MICROCONTROLLER IC	
IC2			E-TDA7719	ANALOGUE IC	
IC4			BD4913-V4	ANALOGUE IC	
IC6		*	KKZ12Z	ANALOGUE IC	
IC7			LC72725KV	ANALOGUE IC	EE1E2
IC7			LC72725KV	ANALOGUE IC	E3E6
IC8		*	XC6120N362N1	MOS-IC	
Q2			KTA1046-P	TRANSISTOR	
Q3			2SC4081	TRANSISTOR	
Q7			DTC124EUA	DIGITAL TRANSISTOR	
Q8			KTA1046-P	TRANSISTOR	
Q9			2SC4081	TRANSISTOR	
Q10			DTA124EUA	DIGITAL TRANSISTOR	
Q11			DTC124EUA	DIGITAL TRANSISTOR	
Q12			DTA124EUA	DIGITAL TRANSISTOR	
Q101-103			2SC4081	TRANSISTOR	
Q104,105			DTC144EUA	DIGITAL TRANSISTOR	
Q301			DTA114YUA	DIGITAL TRANSISTOR	
Q701,702			DTC143TUA	DIGITAL TRANSISTOR	EE1E2
Q701,702			DTC143TUA	DIGITAL TRANSISTOR	E3E6
Q705			DTA124EUA	DIGITAL TRANSISTOR	EE1E2
Q705			DTA124EUA	DIGITAL TRANSISTOR	E3E6
Q801			RT1N144M	TRANSISTOR	
TH1			PRF18BE471QS2	POSITIVE RESISTOR	
A1	2D	*	X86-4162-70	FRONT-END UNIT	

E : KDC-W3041AY E1 : KDC-W3041GY E2 : KDC-W312AY E3 : KDC-W312GY
 E4 : KDC-W241AY E5 : KDC-W241GY E6 : KDC-W312SAY

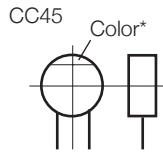
△Indicates safety critical components.

PARTS LIST

CAPACITORS

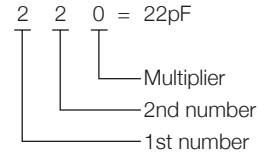
$\frac{C}{1} \frac{C}{2} \frac{4}{3} \frac{5}{4} \frac{T}{5} \frac{H}{6} \frac{2}{6} \frac{2}{6} \frac{0}{6} \frac{J}{6}$

- 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	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

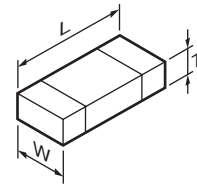
Voltage rating

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	3150	4000	5000	6300	8000	-

Chip capacitors

- (EX) $\frac{C}{1} \frac{C}{2} \frac{7}{3} \frac{3}{4} \frac{F}{5} \frac{S}{6} \frac{L}{7} \frac{1}{6} \frac{H}{6} \frac{0}{6} \frac{0}{6} \frac{0}{6} \frac{J}{7}$
 (Chip) (CH, RH, UJ, SL)
 (EX) $\frac{C}{1} \frac{K}{2} \frac{7}{3} \frac{3}{4} \frac{F}{5} \frac{F}{6} \frac{1}{6} \frac{H}{6} \frac{0}{6} \frac{0}{6} \frac{0}{6} \frac{Z}{7}$
 (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

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		

RESISTORS

Chip resistor (Carbon)

- (EX) $\frac{R}{1} \frac{D}{2} \frac{7}{3} \frac{3}{4} \frac{E}{5} \frac{B}{6} \frac{2}{6} \frac{B}{6} \frac{0}{6} \frac{0}{6} \frac{0}{6} \frac{J}{7}$
 (Chip) (B, F)

Carbon resistor (Normal type)

- (EX) $\frac{R}{1} \frac{D}{2} \frac{1}{3} \frac{4}{4} \frac{B}{5} \frac{B}{6} \frac{2}{6} \frac{C}{6} \frac{0}{6} \frac{0}{6} \frac{0}{6} \frac{J}{7}$

- 1 = Type
 2 = Shape
 3 = Dimension
 4 = Temp. coefficient
 5 = Rating wattage
 6 = Value
 7 = Tolerance

X34-56xx-xx

PC BOARD (FOIL SIDE VIEW)

ELECTRIC UNIT X34-56xx-xx (J76-0459-12)

