

CD RECEIVER

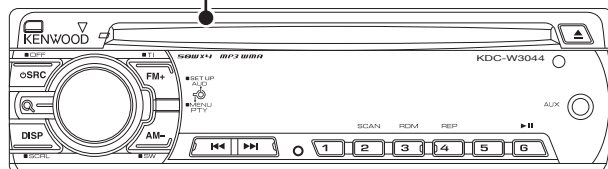
KDC-W3044A/W3044AY
 KDC-W3044G/W3044GY
 KDC-W313A/W313AY
 KDC-W313G/W313GY
 KDC-W3544W/W3544WY
SERVICE MANUAL

KENWOOD

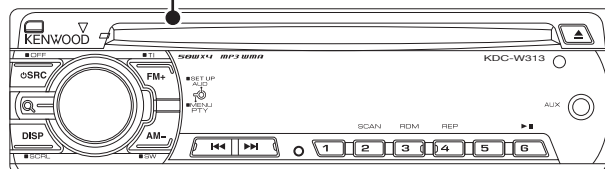
Kenwood Corporation

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 B53-0678-00 (N) 181

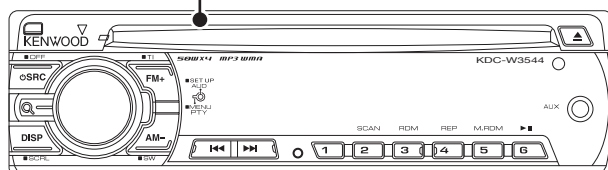
Panel assy
 KDC-W3044xx (A64-4657-02)



Panel assy
 KDC-W313xx (A64-4658-02)



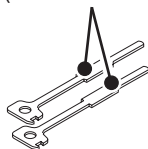
Panel assy
 KDC-W3544xx (A64-4656-02)



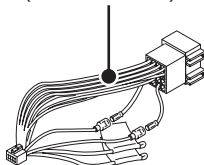
TDF SPARE-PANEL

MAIN UNIT NAME	TDF PARTS No.	TDF NAME
KDC-W3044A	Y33-2982-71	TDF-W3044A
KDC-W3044AY	Y33-2982-71	TDF-W3044A
KDC-W3044G	Y33-2982-72	TDF-W3044G
KDC-W3044GY	Y33-2982-72	TDF-W3044G
KDC-W313A	Y33-2982-73	TDF-W313A
KDC-W313AY	Y33-2982-73	TDF-W313A
KDC-W313G	Y33-2982-74	TDF-W313G
KDC-W313GY	Y33-2982-74	TDF-W313G
KDC-W3544W	Y33-2982-70	TDF-W3544W
KDC-W3544WY	Y33-2982-70	TDF-W3544W

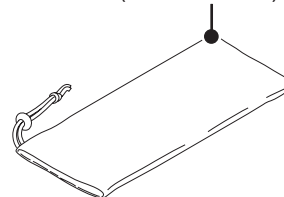
Lever
 (D10-7049-04) x2



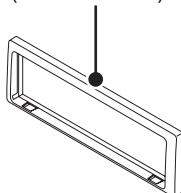
DC cord
 (E30-6800-05)



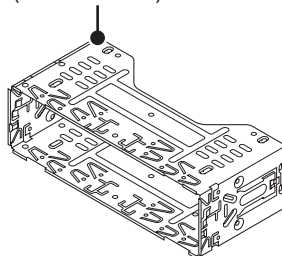
Carrying case
 (W01-1710-05)



Escutcheon
 (B07-3270-01)

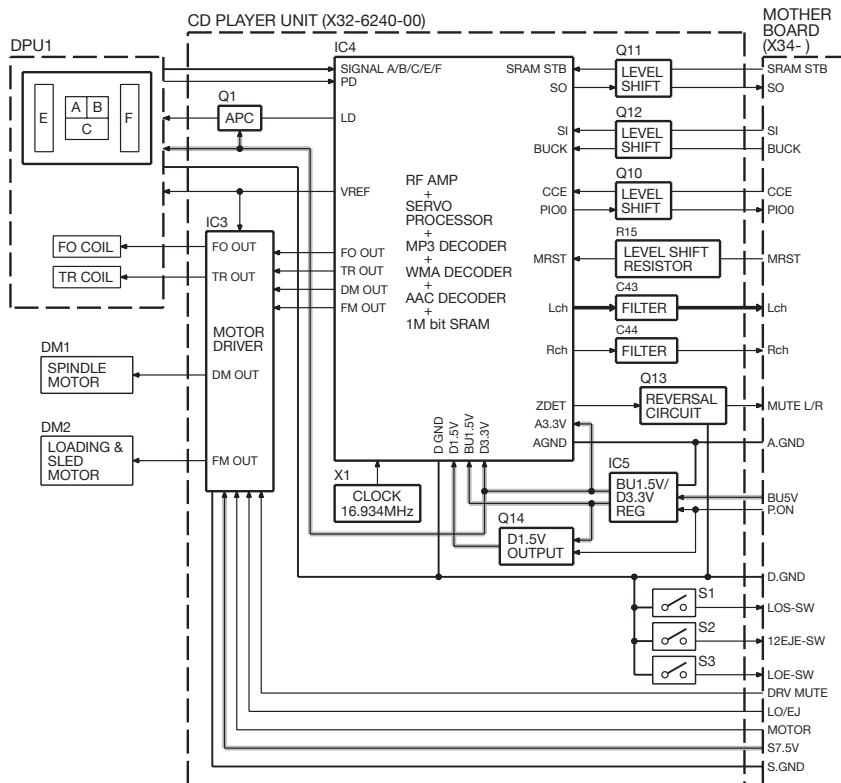
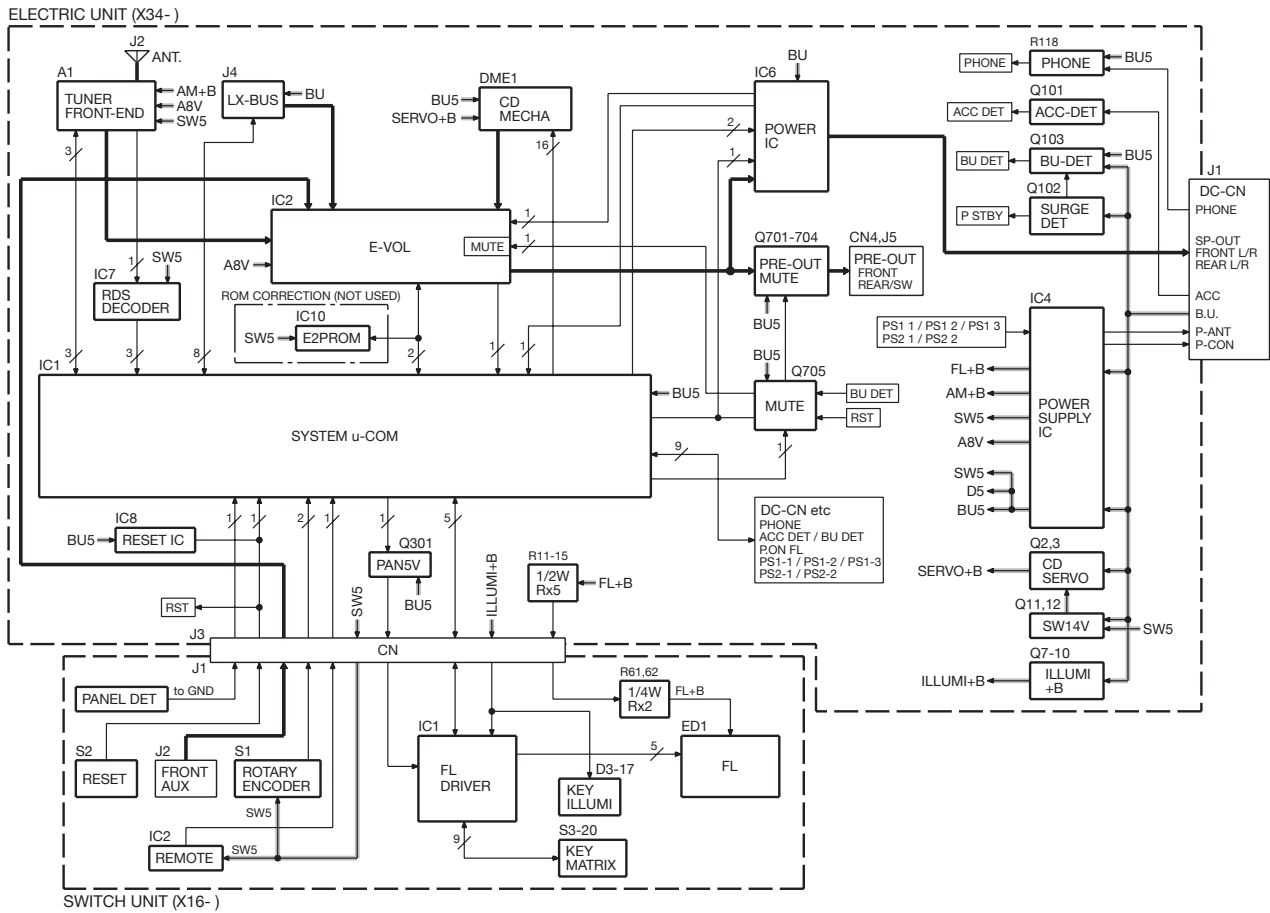


Mounting hardware assy
 (J22-0789-03)



This product uses Lead Free solder.
 This product complies with the **RoHS** directive for the European market.

BLOCK DIAGRAM



COMPONENTS DESCRIPTION

● ELECTRIC UNIT (X34-621x-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, tone.
IC4	Power Supply IC	Outputs 5V \times 2, 8.1V \times 2, 10.2V, P-CON, P-ANT.
IC6	Power IC	Amplifies the front L/R and the rear L/R to 50W maximum.
IC7	RDS IC	Decodes RDS.
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	FL+B SW	ON when the base goes Hi.
Q8	FL+B AVR	When Q9's base goes Hi, Servo+B AVR outputs 10.5V.
Q9	Control SW for FL+B	ON when the base goes Hi.
Q10	FL+B SW	ON when the base goes Lo.
Q11	14V SW	ON when the base goes Hi.
Q12	14V SW	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	Mute Control	ON when the base goes Hi.
Q105	Mute Control	ON when the base goes Hi.
Q301	Panel 5V SW	ON when the base goes Lo.
Q701,702	Pre-out Mute SW	When a base goes Hi, pre-out is muted.
Q705	Mute Driver for Pre-out	ON when the base goes Lo.

● SWITCH UNIT (X16-646x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	FL Driver	
IC2	Remote Control Sensor	

● CD PLAYER UNIT (X32-6240-00)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC3	4ch BTL Driver	Driver for focusing & tracking coil, driver for sled & spindle motor, and operation for disc loading & ejection.
IC4	Servo DSP with built-in Audio DAC	With built-in MP3/WMA/ACC decoder and 1M-bit-SRAM.
IC5	BU1.5V/D3.3V REG.	Power supply for BU1.5V. Power supply for digital/analogue/audio 3.3V.
Q1	APC (Auto Power Control)	Drives LD (Laser Diode).
Q10~12	5V-3.3V Level Shift	Converts signal from 5V to 3.3V, or from 3.3V to 5V.
Q13	Inverter	Inverts ZDET (Zero data DETection) signal.

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q14	D1.5V Output	Switches ON/OFF at one end of BU1.5V line which is separated into 2 directions. Uses output voltage as D1.5V.
D1	Level Down	Lowers signal level by about 1.2V so that Lo level signal that turns the regulator ON/OFF surely becomes Lo judgment level of the regulator SW.
D2	Laser Diode Protection	Prevents reverse bias which is applied to laser. Laser destruction prevention.
D3,4	Static Electricity Countermeasure	Prevents malfunction by static electricity.

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		
2	LX CLK	I/O	LX-BUS clock		125kHz~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	I	Memory extension bus width setting		Connects to VSS
9	CNVSS	-			Connects to VSS, H: Possible to rewrite flash ROM
10	XCIN	-	32.768kHz		
11	XCOU	-	32.768kHz		
12	RESET	-			L: Reset
13	XOUT	-	10.0MHz		
14	VSS	-			
15	XIN	-	10.0MHz		
16	VCC1	-			
17	NMI	I			Connects to VSS
18	PANEL 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: E2PROM 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, 11 minutes after momentary power-down, panel detached or ACC OFF: Hi-Z
27,28	NC	-	Not used		Output L fixed
29	AUD SCL	I/O	E-VOL clock input/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 CL	O	VFD clock output		125kHz
34	VFD XBLK	O	VFD data blanking output		H: Reset cancelled, L: Reset 11 minutes after momentary power-down, panel detached or ACC OFF: L
35	CD SI	O	CD mechanism serial output		
36	CD SO	I	CD mechanism serial input		
37	CD CLK	O	Serial clock output		(Only when playing MP3) f=1MHz
38	CD LOS SW	I	CD loading detection		
39	CD PIO0	I	Communication request from mechanism DSP		H: Data request
40	CD SRAMSTB	O	1M-bit SRAM standby		L: SRAM standby
41	EPM	I	Flash ROM EPM input		L: Possible to rewrite flash ROM Connects to VSS (Never set it to output H)

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing Operation Description
42	CD LOE LIM SW	I	CD detection (Chucking SW)		H: Loading completed, L: No disc
43	PON CD	O	CD mechanism power supply control		H: Power supply 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 CSB	O	VFD control request		
47	CD DRIVEMUTE	O	Motor driver mute output		
48	CD CCE	O	CD mechanism chip enable		
49	NC	-	Not used		Output L fixed
50	CD RST	O	CD mechanism 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		
56	ROTARY CCW	I	VOL key input (Counter-clockwise)		Detects pulse width
57	ROTARY CW	I	VOL key input (Clockwise)		Detects pulse width
58,59	NC	-	Not used		Output L fixed
60	RDS DATA	I/O	RDS decoder data input		
61	RDS QUAL	I	RDS decoder QUAL input		
62	VCC2	-			
63	NC	-	Not used		Output L fixed
64	VSS	-			
65	NC	-	Not used		Output L fixed
66	TUN IFC OUT	I	Front-end IFC-OUT input		H: Station detected, L: No station
67	NC	-	Not used		Output L fixed
68	MUTE	I/O	Mute		L: Mute OFF, Hi-Z: Mute ON
69	PWIC DC ERR	I	Detects whether power IC was short-circuited to +B or GND		L: Wrong connection
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	RDS CLK	I/O	RDS decoder clock input		
75	LX REQ S	I	Communication request from slave unit		
76	PWIC SVR	O	SVR discharge circuit		During 500ms after power OFF or 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 or momentary power-down: L, TEL mute: L
79	$\overline{\text{ACC DET}}$	I	ACC power supply detection		ACC detected: L
80	$\overline{\text{BU DET}}$	I	Momentary power-down detection		BU detected: L, No BU or momentary power-down: H (Operates below 4ms after momentary power-down is detected)

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing Operation Description
81,82	NC	-	Not used		Output L fixed
83	RDS NOISE	I	FM noise detection		
84	TUN SMETER	I	S-meter input		
85	TYPE1	I	Destination SW		
86	TYPE2	I	Destination SW		
87	AUD DC ERR	I	DC offset detection		If DC offset is detected 20 times in 100ms with condition below 1.0V, it will be judged as DC offset is detected.
88	LINE MUTE	I	Line mute detection		TEL mute: Below 1V, NAVI mute: Over 2.5V
89	NC	-	Not used		Output L fixed
90	PS2 2	O	Power supply IC control	②	Refer to the truth value table
91	PS2 1	O	Power supply IC control	②	Refer to the truth value table
92	PS1 1	O	Power supply IC control	②	Refer to the truth value table
93	PS1 2	O	Power supply IC control	②	Refer to the truth value table
94	PS1 3	O	Power supply IC control	②	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		

• 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

② Power supply IC (IC4) control

SEL1 (Pin 10)

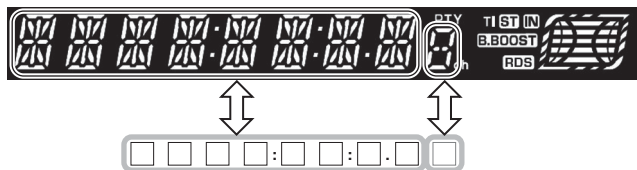
PS1-2	PS1-3	PS2-1	ILLUMI	P-CON	P-ANT
L	L	L	OFF	OFF	OFF
L	L	H	ON	OFF	OFF
H	L	H	ON	ON	OFF
H	H	H	ON	ON	ON

SEL2 (Pin 11)

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

TEST MODE

■ 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.	

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.

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	ON1
System Q	NATURAL
Preout	Rear

TEST MODE

■ 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 T Y P E : 1 1 <input type="checkbox"/> <input type="checkbox"/>	“TYPE” indicates system μ-com (IC1) destination, and shows real-time condition of the destination terminal.
	Development ID condition indication 8 0 1 E 2 - 3 . 0 0	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"/> <input type="checkbox"/> 0 H X X <input type="checkbox"/> <input type="checkbox"/> P O N X X X X X X <input type="checkbox"/>	00~50 is displayed for “XX”. When less than 1 hour, displayed by increments of 10 minutes.
		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 C D T <input type="checkbox"/> <input type="checkbox"/> 0 H X X <input type="checkbox"/> <input type="checkbox"/> C D T X X X X X X <input type="checkbox"/>	00~50 is displayed for “XX”. When less than 1 hour, displayed by increments of 10 minutes.
		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 X <input type="checkbox"/>	Disc EJECT times display. MAX 65535 (times)
		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"/> <input type="checkbox"/> X X X X X X <input type="checkbox"/>	PANEL open/close times display. MAX 65535 (times)
		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 R O 1 2 3 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> E R R <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> R - - - - <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> R * * * * <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Figures are ROM correction version number. RXXXX (System μ-com ROM correction version)
		In the case when E2PROM is not installed; ERR (System μ-com ROM correction error)
		In the case when correction data is not yet written: R---- (System μ-com ROM correction data is not yet written)
		In the case when the correction data is incompatible (Version of data is incompatible) R**** (System μ-com ROM correction data is incompatible)
AM	Fluorescent indicator short check <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"/>	Turns off all the lights → 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 →
▶▶	Audio data initialization A U D <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.
◀◀	Forced Power OFF information display P O F F <input type="checkbox"/> - - - <input type="checkbox"/> P O F F <input type="checkbox"/> P N L <input type="checkbox"/>	No forced power OFF
		Forced power OFF by communication error between system μ-com and panel.
■◀◀		While the forced power OFF data is displayed, press and hold for 2 seconds to clear the data.
DISP	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"/>	For the display contents, refer to “CD information display mode” in the next section.
		While in CD information display mode, press and hold for 2 seconds or longer to clear all CD information.

TEST MODE

• CD information display mode

Key	Description of display		Description
◀◀/ ▶▶	CD mechanism error log display	M C E R R 1 : X X □	Mechanism error log 1 (Latest) XX: Error number. "--" is displayed in case there is no error.
		M C E R R 2 : X X □	Mechanism error log 2 (Latest) XX: Error number. "--" is displayed in case there is no error.
		M C E R R 3 : X X □	Mechanism error log 3 (Latest) XX: Error number. "--" is displayed in case there is no error.
◀◀/ ▶▶	CD Load error information display	L D E R R 1 : X X □	Load error switch 1 XX: Number of errors. "--" is displayed in case there is no error.
		L D E R R 2 : X X □	Load error switch 2 XX: Number of errors. "--" is displayed in case there is no error.
◀◀/ ▶▶	CD Ejection error information display	E J E R R 1 : X X □	Ejection error switch 1 XX: Number of errors. "--" is displayed in case there is no error.
		E J E R R 2 : X X □	Ejection error switch 2 XX: Number of errors. "--" is displayed in case there is no error.
		E J E R R 3 : X X □	Ejection error switch 3 XX: Number of errors. "--" is displayed in case there is no error.
		E J E R R 4 : X X □	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)	C N T □ L O S E □	CD time code error count data (Missing counts) mode display.
		C D D A □ □ : X X □	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)	C N T □ S T A Y □	CD time code error count data (count not updated) mode display.
		C D D A □ □ : X X □	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	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 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

• 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 []	AUTO
		F M 1 [] 9 8 . 1 W []	Forced WIDE
		F M 1 [] 9 8 . 1 M []	Forced MIDDLE
		F M 1 [] 9 8 . 1 N []	Forced NARROW

• RDS automatic measurement

Add this measurement instead of the visual inspection of PS display that has been used in the production line.

Status	Display	Description
PS data reception	R D S [] T E S T []	When the display is what is shown in the left column, forcibly turn off. P-CON returns when the power is turned off/on (POWER OFF/ON).

• FST adjustment mode

Perform FST soft-mute adjustment.

Key	Note
■DISP	To enter into FST adjustment mode (Press and hold the key for 1 second) In FM, the frequency changes to 98.3MHz

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 [] [] [] [] V []	0.00(V) ↔ 5.00 (V) Normal (Local OFF)
	Seek Stop Level adjustment (Auto)	A T L [] [] [] [] V []	0.00(V) ↔ 5.00 (V) Normal (Local ON)
	Seek Stop Level adjustment (Manual) ◀◀ / ▶▶	M N N [] [] [] [] V []	0.00(V) ↔ 5.00 (V) Normal (Local OFF)
	Seek Stop Level adjustment (Manual) ◀◀ / ▶▶	M N L [] [] [] [] V []	0.00(V) ↔ 5.00 (V) Normal (Local ON)
■AUD	Adjustment value memory	E P [] W R I T E []	The display in the left column is shown when the data has been written in E2PROM by pressing and holding the key for 2 seconds.
AUD	Mode clear	F M 1 [] 9 8 . 3 A 4	To clear FST adjustment (The display returns to the normal display but the test mode is retained)

In the band where the local seek can be turned on or off (Local Seek ON/OFF), it is possible to turn on or off the local seek by pressing the [DISP] key briefly.

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

TEST MODE

■ 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 Name of mechanism type Mechanism version	9 B 1 0 : □ □ □ □ □ □	Display of name of mechanism type (Press the key while the display is what is shown in the left column to return to the normal display.)
5	Jump procedure		Jump to No.9 and No.22 (Preset 5 → Track 22 in other track than Track 22, and Preset 5 → Track 9 in Track 22) (For linearity check)
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 [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 and only in the internal AUX model)

Procedure	Note
Press and hold [MENU] key	Switch Bass Boost (Note: Front key functions as MENU.)

■ [ATT] key operation

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

TEST MODE

■ MENU-related test mode

Procedure	Note
Press the [MENU] 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 [AUD] key for 1 second or longer	Switches PREOUT

■ Fluorescent indicator (ED1) short check

Procedure	Note
In the STANDBY source, press [AM] 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.	C L R <input type="checkbox"/> O <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	At normal termination
	C L R <input type="checkbox"/> X <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	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

■ 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.)

■ Security (KDC-W3544W only)

• Forced Power ON mode

Procedure	Note
While pressing and holding [MENU] 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 security code

Procedure	Display	Description
Press [▶▶] key for 3 seconds or longer while pressing [DISP] 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

■ ROM data transfer

Procedure	Display	Description
While pressing and holding [1] key and [3] keys, reset-start	□ □ □ □ : □ □ □ □ □	All lights ON.
Press [MENU] 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), ■ [4] 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.
(In the above ROM WRT status), ■ [4] key for 2 seconds or longer	W R T □ □ □ □ □	Mother unit (X34-) → Front-end (A1). ROM data is being transferred.
	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
(In every status of ROM data) Press [MENU] key	□ □ □ □ : □ □ □ □ □	Clear from ROM correction data transfer processing

This function is used, in case of front-end (A1) failure, to transfer E2PROM data (ROM correction, security and other data) inside of the front-end (A1) to E2PROM of the data saving mother unit (X34-), and this function is also used, after the replacement of the front-end (A1), to transfer the data that have been saved in the E2PROM of the data saving mother unit (X34-) to the new front-end (A1). Refer to the following “ROM Data Transfer Process” pages for the details of security and other data”.

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.

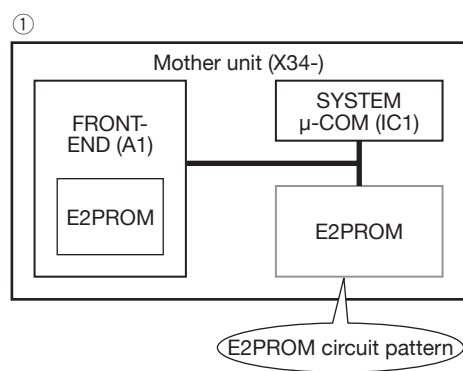
■ Data to be copied

- 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.

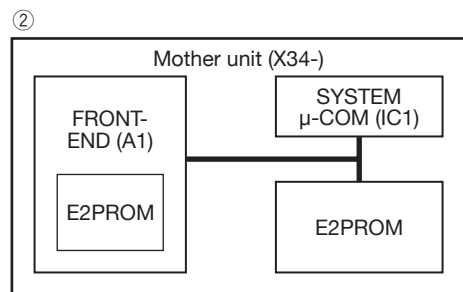
1. In case of replacing front-end (A1) without an applicable ROM correction.
2. In case of replacing front-end (A1) with an applicable ROM correction.
3. In case of applying new ROM correction at the same time when front-end (A1) is replaced. (No ROM correction has been carried out.)



Install new E2PROM.

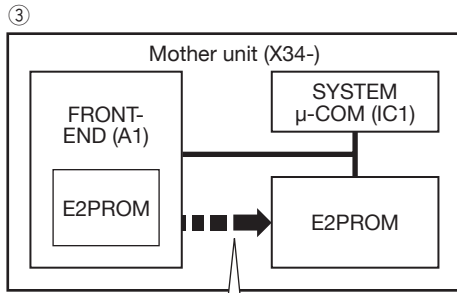
Install E2PROM containing no data, in case of [1] and [2].

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)

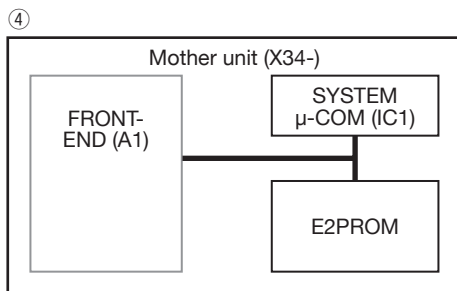


The system μ-COM (IC1) copies the data in the front-end (A1) in the E2PROM on the mother unit (X34-)

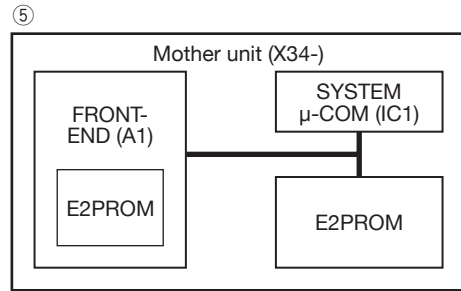
In case of [2]
 READ OK R-OK
 In case of [1] or [3]
 READ OK2 R-O2



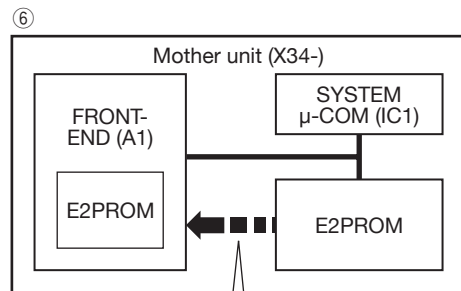
Press [▶] key. (Exit ROM data transfer mode.)
 Turn power off.
 Remove front-end (A1).



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)



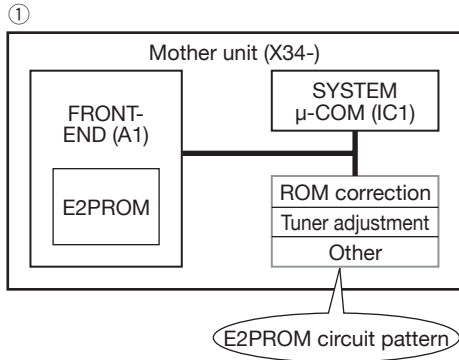
System μ-COM (IC1) copies data on the mother unit (X34-) into E2PROM in the front-end (A1)

In case of [2] or [3]
 WRT OK W-OK
 In case of [1]
 WRT OK2 W-O2

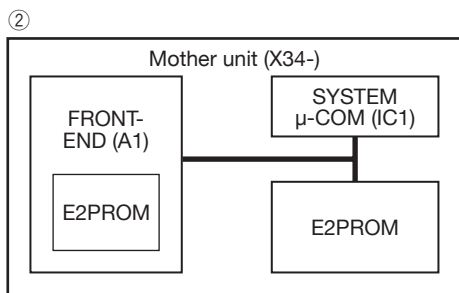
Press [▶] key. (Exit ROM data transfer mode.)

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)



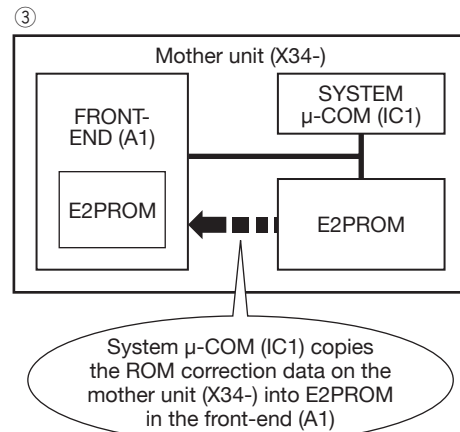
Turn power on.

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]



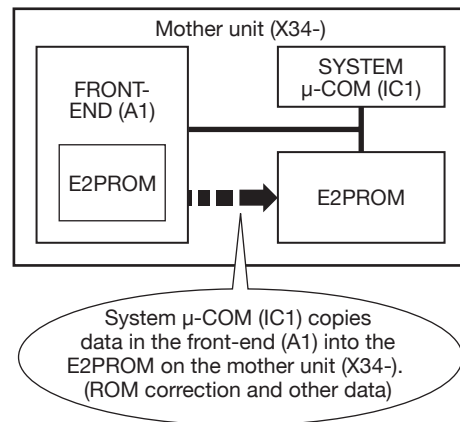
Press [◀◀] (or ▶▶) . (Select READ)

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



In case of [5]

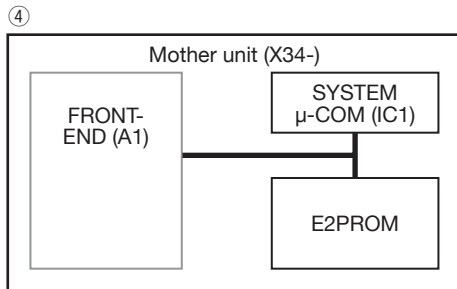
Press [▶] key. (Exit ROM data transfer mode.)



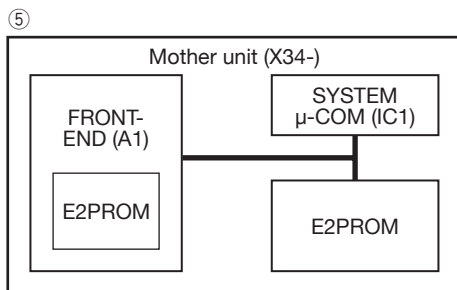
ROM DATA TRANSFER PROCESSES

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

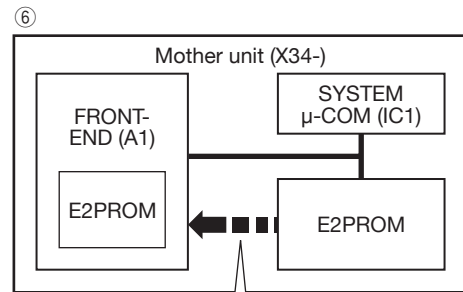
Remove front-end (A1).



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)



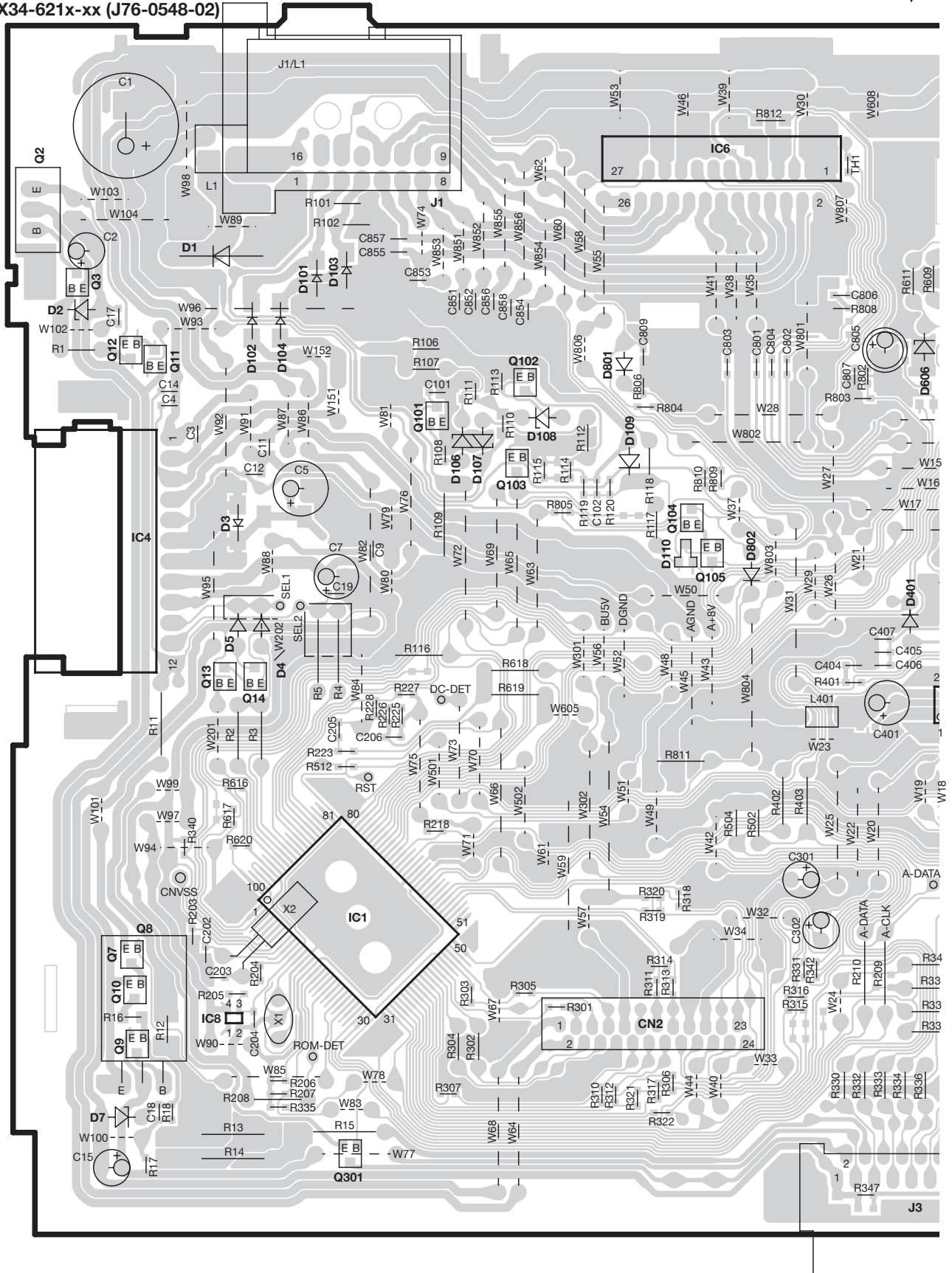
System μ-COM (IC1) copies data on the mother unit (X34-) into E2PROM in the front-end (A1)

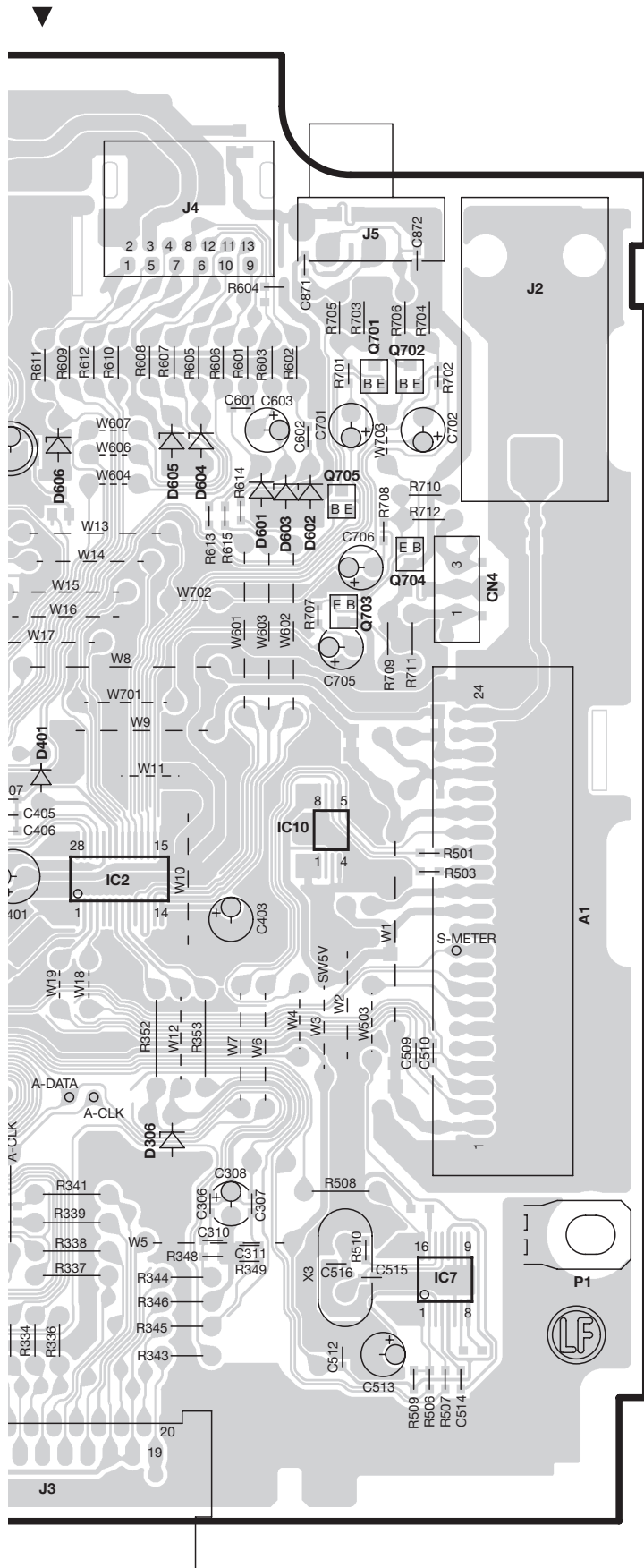


Press [▶|] key. (Exit ROM data transfer mode.)

PC BOARD (FOIL SIDE VIEW)

ELECTRIC UNIT
X34-621x-xx (J76-0548-02)



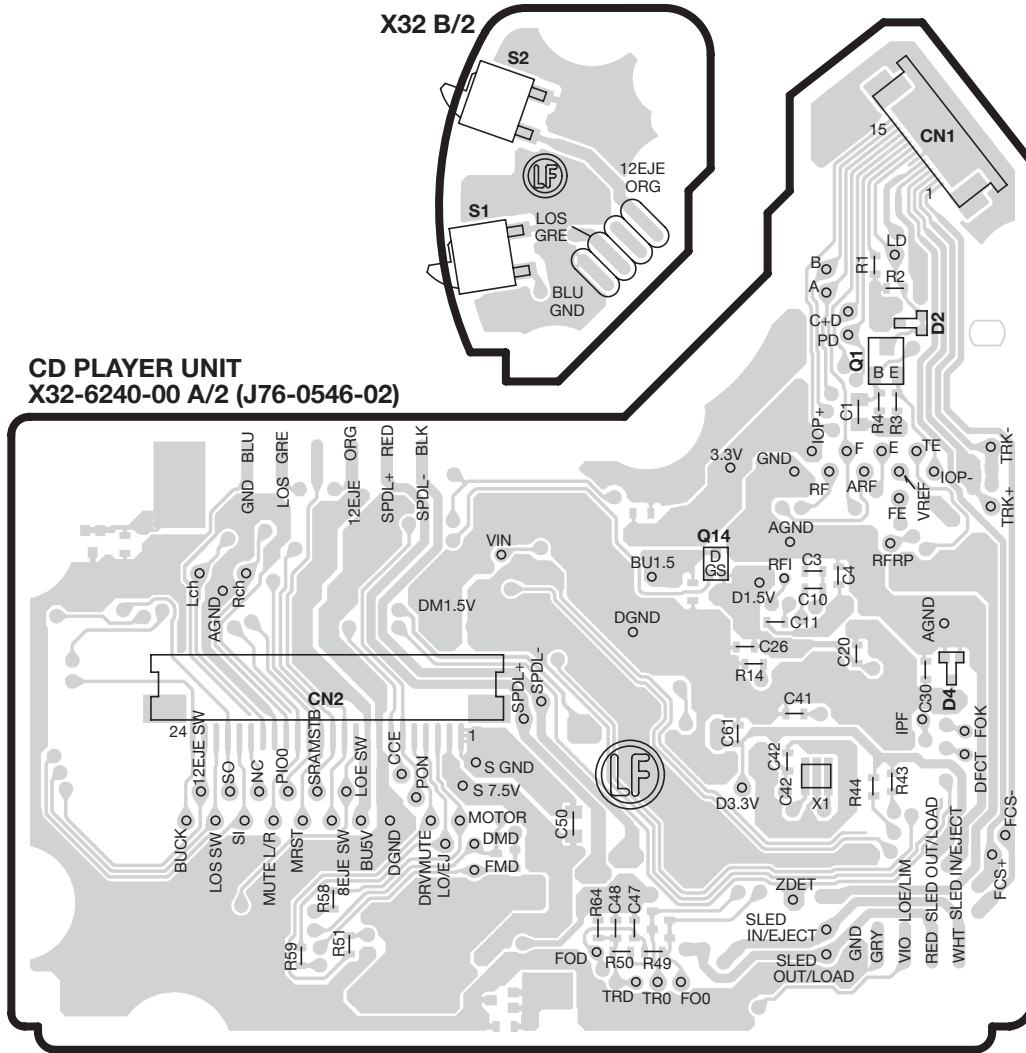


X34-621x-xx

Ref. No.	Address
IC1	5C
IC2	4F
IC4	4B
IC6	2D
IC7	6G
IC8	6B
Q2	2A
Q3	3B
Q7	6B
Q8	5B
Q9	6B
Q10	6B
Q11	3B
Q12	3B
Q101	3C
Q102	3D
Q103	3D
Q104	4D
Q105	4D
Q301	7C
Q701	3G
Q702	3G
Q705	3G

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

PC BOARD (COMPONENT SIDE VIEW)

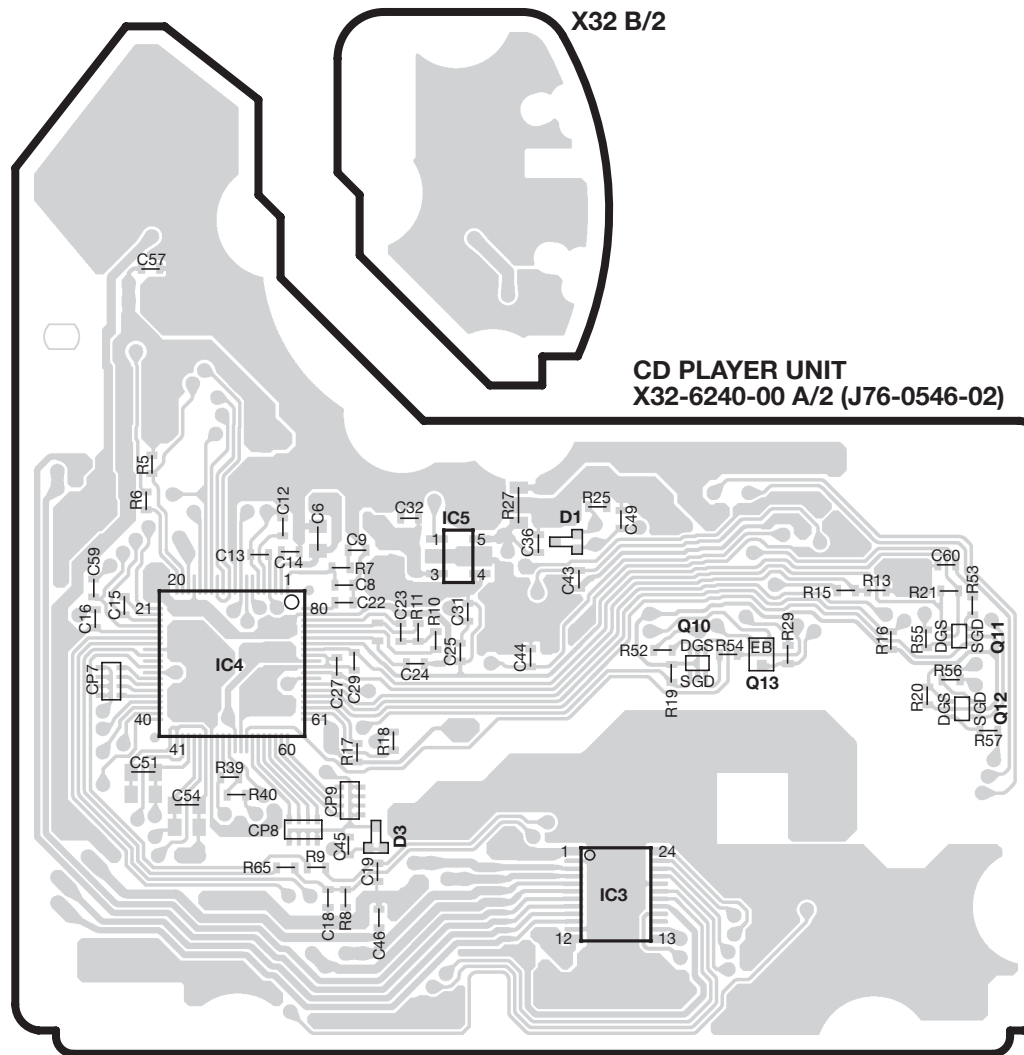


X32-6240-00

Ref. No.	Address
Q1	2N
Q14	3N

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

PC BOARD (FOIL SIDE VIEW)



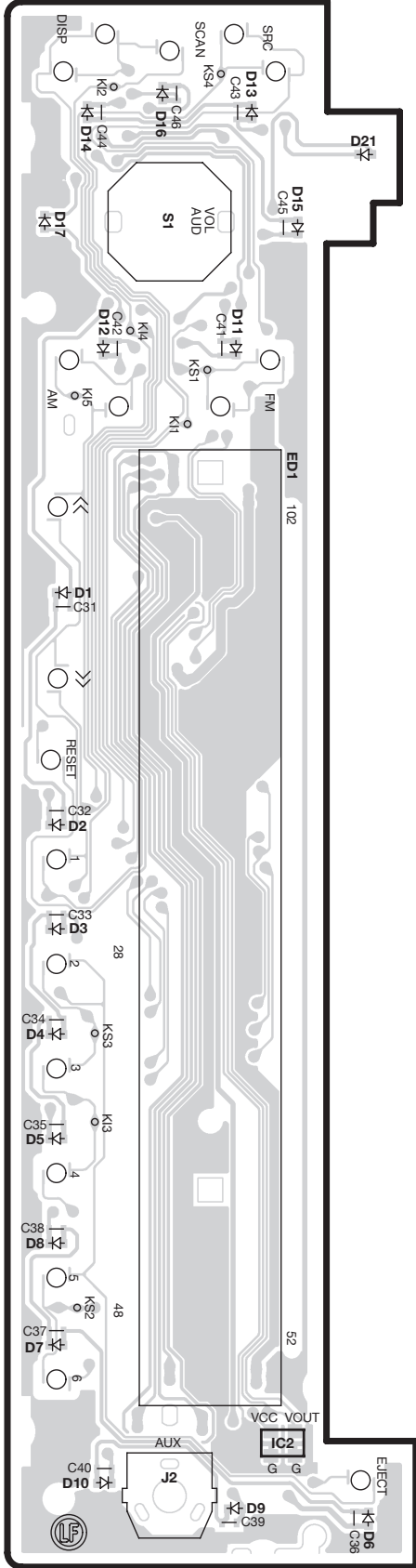
X32-6240-00

Ref. No.	Address	Ref. No.	Address
IC3	4R	Q11	3S
IC4	3Q	Q12	4S
IC5	3R	Q13	4S
Q10	3R		

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

PC BOARD (COMPONENT SIDE VIEW)

SWITCH UNIT
 X16-646x-xx (J76-0549-02)

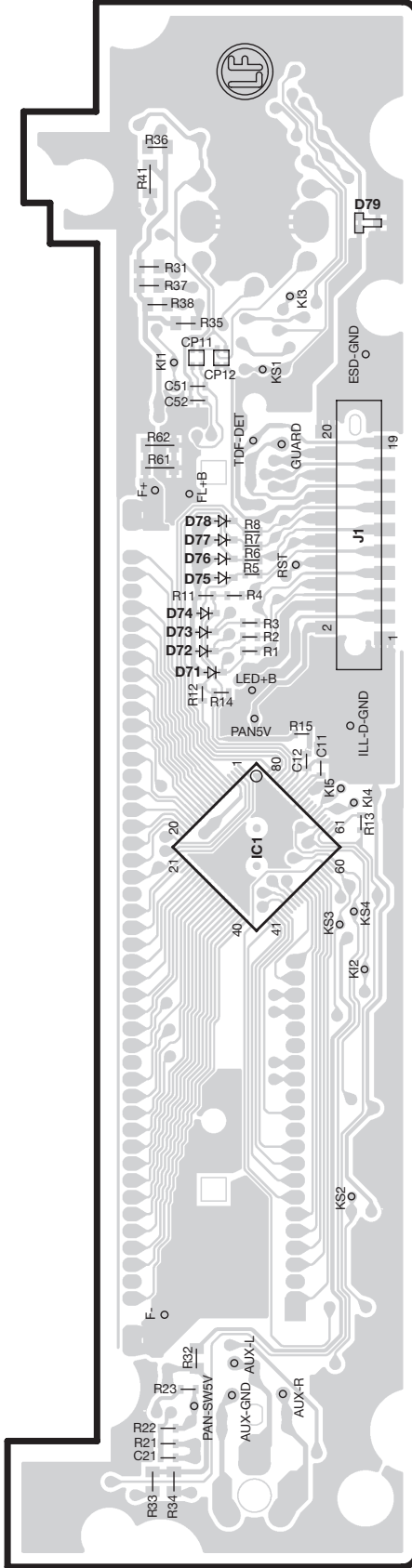


X16-646x-xx

Ref. No.	Address
IC2	7V

(FOIL SIDE VIEW)

SWITCH UNIT
 X16-646x-xx (J76-0549-02)

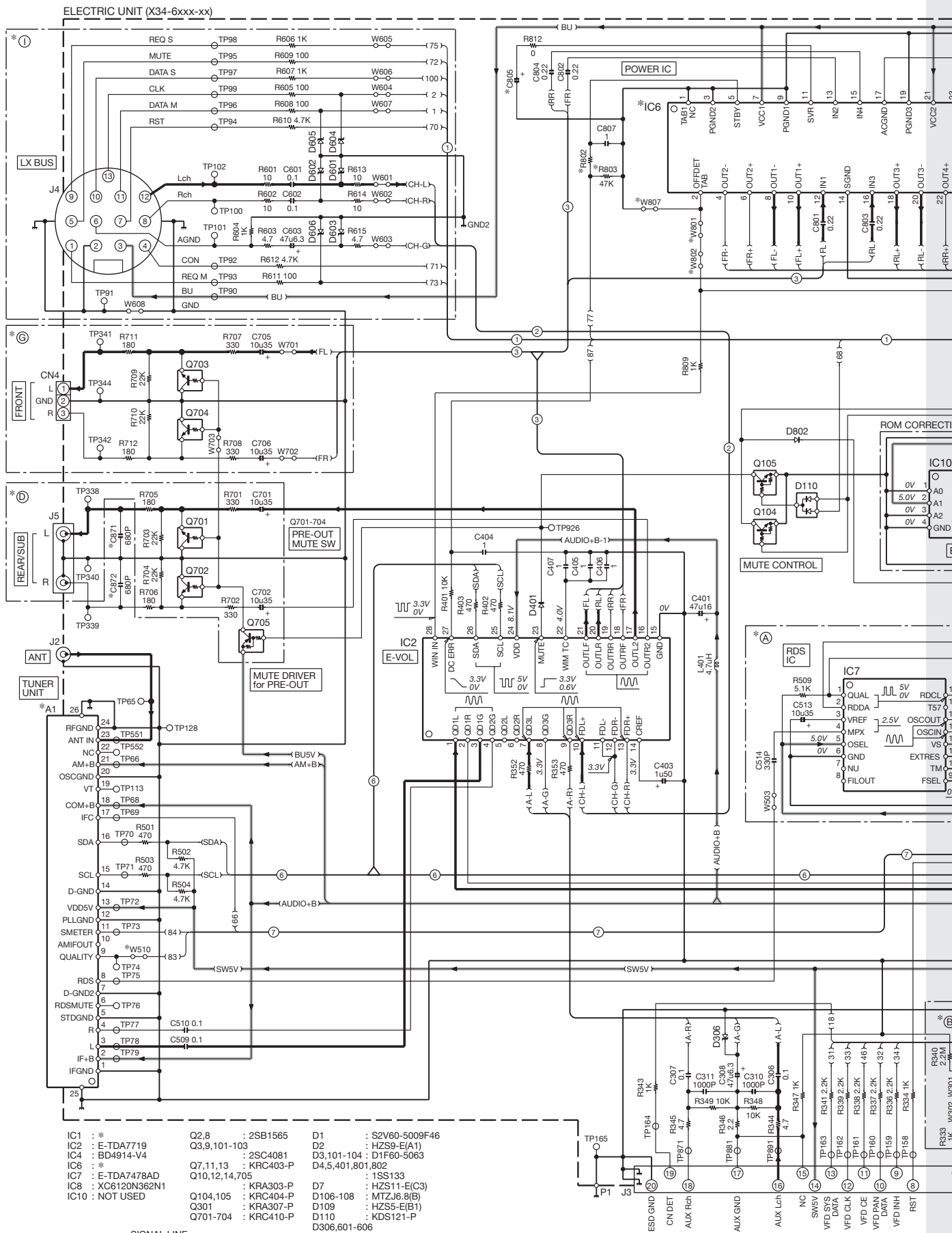


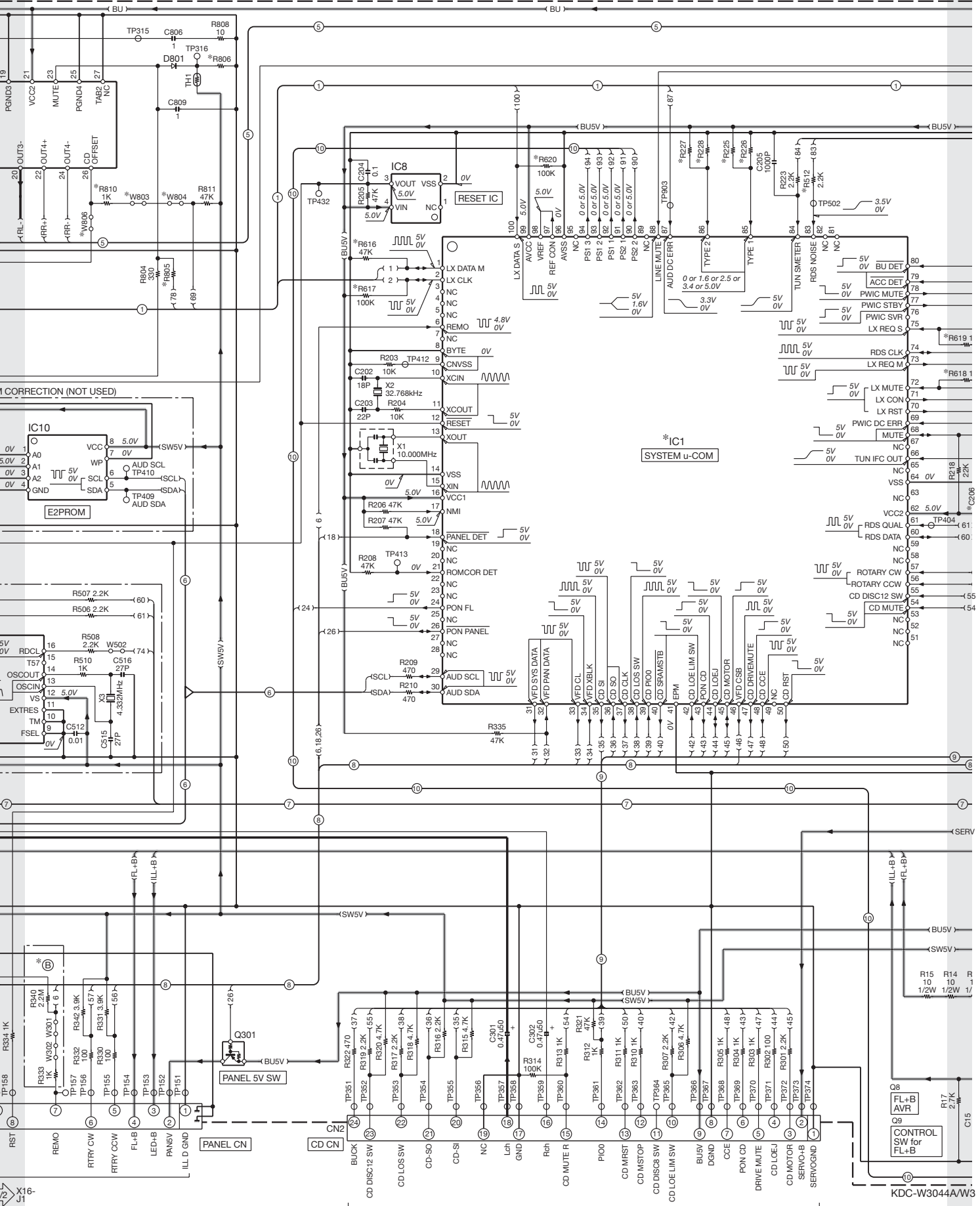
X16-646x-xx

Ref. No.	Address
IC1	4X

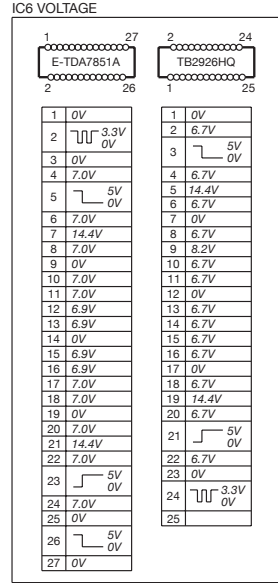
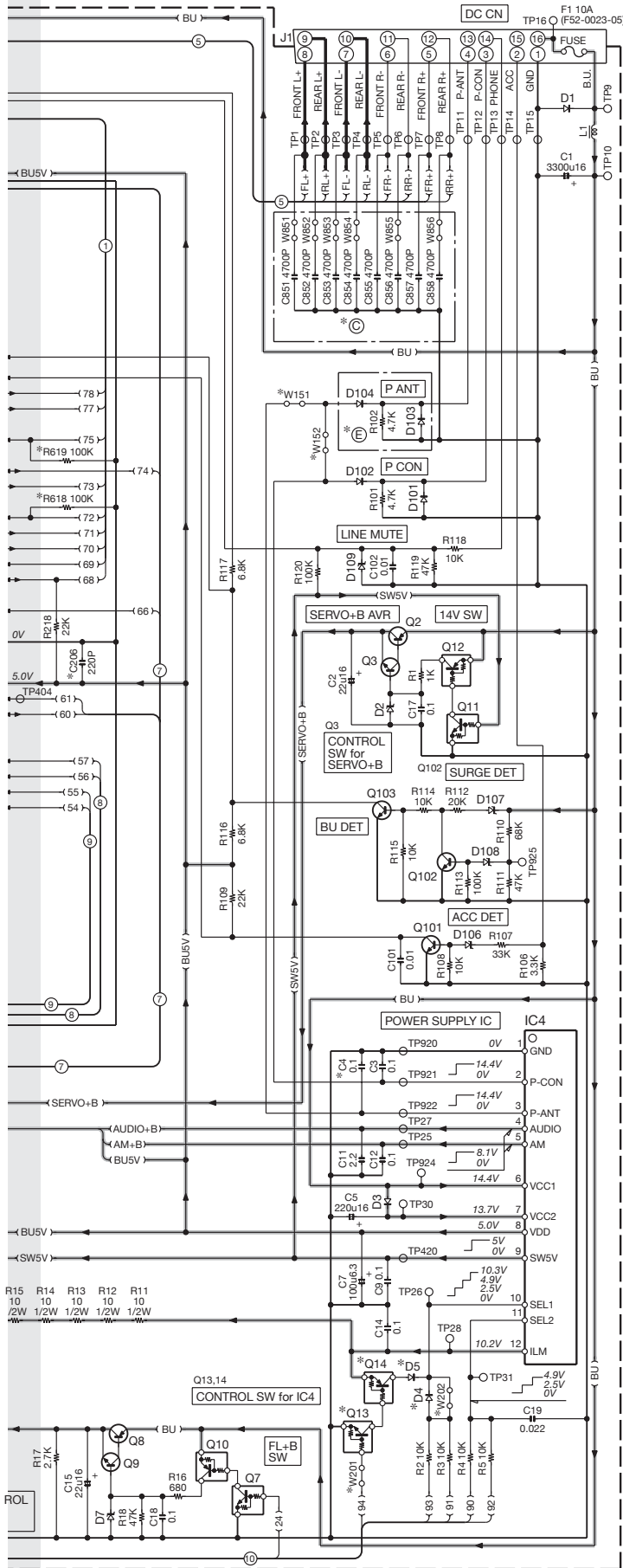
Refer to the schematic diagram for the values of resistors and capacitors.

KDC-W3044A/W3044AY/W3044G/W3044GY/W313A
KDC-W313AY/W313G/W313GY/W3544W/W3544WY





KDC-W3044A/W3



CATEGORY	MODEL NAME	DESTINATION	UNIT No.	A1	C4	C206	C871, 872	D4, 5	IC1	IC6	Q13, 14	R225	R226	R227	R228	R512, 803,810	R616-620	R602	R605	R606	W151, 201	W152, W202 601-804	W606, 807
0242/S	KDC-MP142	K	X34-6210-01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP142R	K2	X34-6210-13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP242	K	X34-6210-11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP242R	K2	X34-6210-22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP343	M2	X34-6210-21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP343R	M2	X34-6210-22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP343V	M4	X34-6210-22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP343VW	M4/M6	X34-6210-21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP443	M1	X34-6210-21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP443G	E1/E2	X34-6212-72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP443G/GY	E1/E2	X34-6212-73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP313A/G	E1/E4	X34-6212-72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP313A/G/GY	E1/E4	X34-6212-73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP3544W	E	X34-6212-70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP3544WY	E	X34-6212-71	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP1042	R	X34-6433-20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP1079FD	R1	X34-6433-21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP1079FT	R1	X34-6433-21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	KDC-MP1079W	R2	X34-6433-21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

W3044A/W3044AY/W3044G/W3044GY/W313A/W313AY/W313G/W313GY/W3544W/W3544WY (1/2)

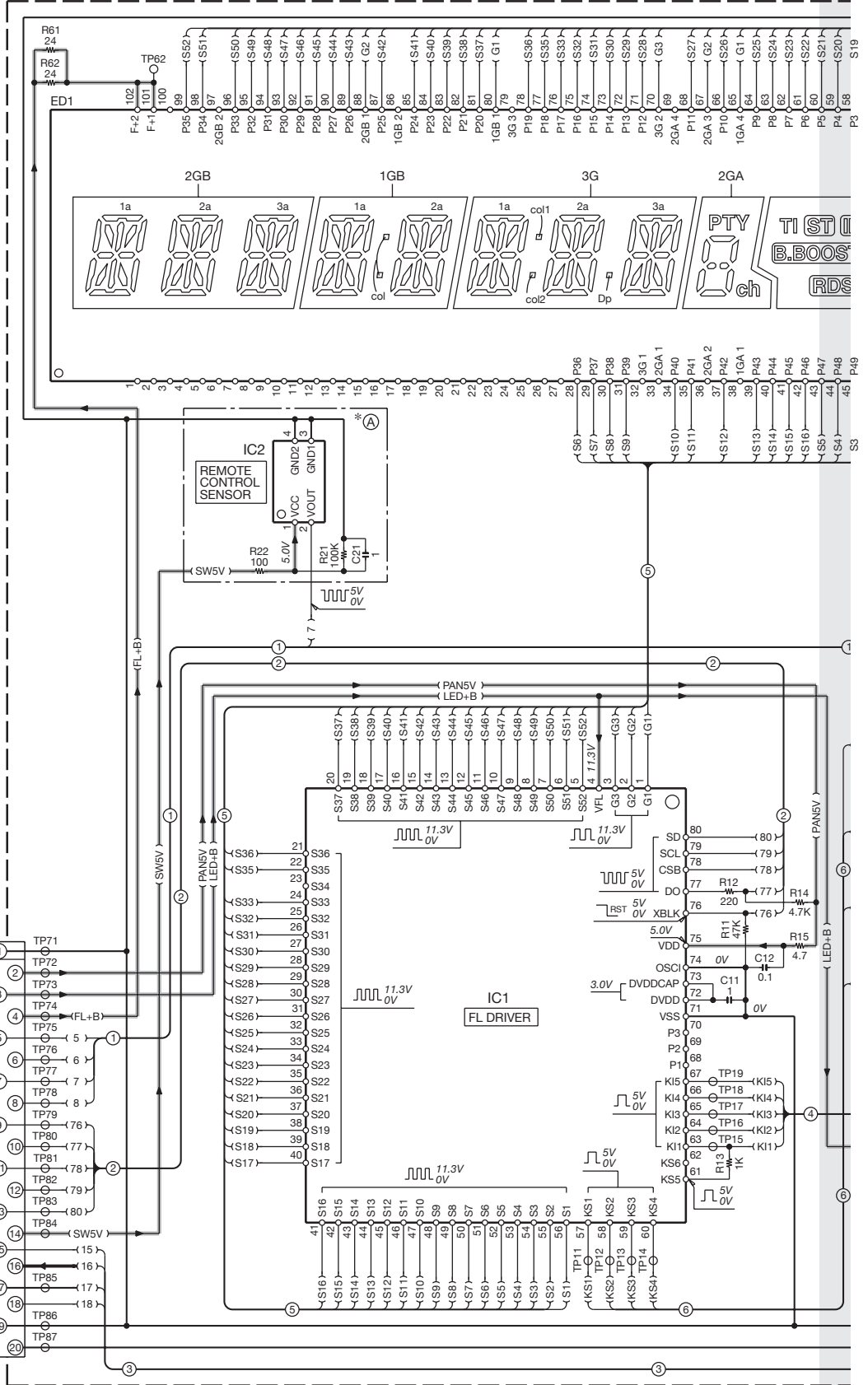
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
 ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably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

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

ANODE CONNECTION

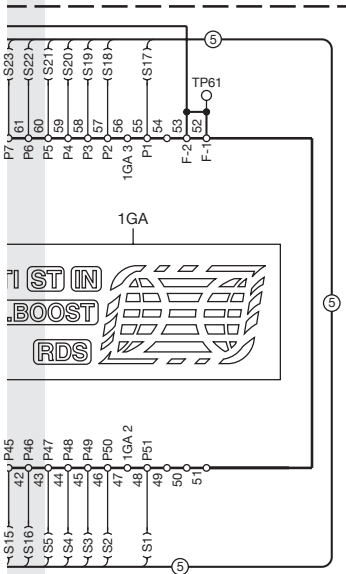
PIN NAME	3G	2GA,2GB	1GA,1GB
P1	—	a	B.BOOST
P2	1g	1g	1g
P3	2g	2g	2g
P4	3g	3g	IN
P5	1f	1f	1f
P6	2f	2f	2f
P7	3f	3f	ST
P8	1b	1b	1b
P9	2b	2b	2b
P10	3b	3b	TI
P11	col1	PTY	col
P12	1k	1k	1k
P13	2k	2k	2k
P14	3k	3k	S1
P15	1j	1j	1j
P16	2j	2j	2j
P17	3j	3j	S8
P18	1h	1h	1h
P19	2h	2h	2h
P20	3h	3h	S2
P21	1a	1a	1a
P22	2a	2a	2a
P23	3a	3a	S3
P24	1m	1m	1m
P25	2m	2m	2m
P26	3m	3m	S4
P27	1e	1e	1e
P28	2e	2e	2e
P29	3e	3e	S9
P30	1c	1c	1c
P31	2c	2c	2c
P32	3c	3c	S10
P33	1r	1r	1r
P34	2r	2r	2r
P35	3r	3r	S11
P36	1d	1d	1d
P37	2d	2d	2d
P38	3d	3d	S16
P39	1n	1n	1n
P40	2n	2n	2n
P41	3n	3n	S17
P42	1p	1p	1p
P43	2p	2p	2p
P44	3p	3p	S12
P45	Dp	eh	RDS
P46	col2	d	S7
P47	—	c	S6
P48	—	e	S5
P49	—	q	S15
P50	—	b	S14
P51	—	f	S13

SWITCH UNIT (X16-6xxx-xx)



SWITCH UNIT (X16-6xxx-xx)

CATEGORY	MODEL NAME	DESTI-NATION	UNIT No.	(A)	D1-8	D9-14	D15-17	R31	R32, 33	R34-36	R37
2009 ENTRY MODEL	E242/S	J/J1	X16-6460-01	—	B30-1782-05	B30-1781-05	—	750	470	560	—
	KDC-MP142/CR	K2/K1	X16-6460-11	YES	B30-1779-05	B30-1779-05	—	750	470	750	—
	KDC-MP242	K	X16-6460-10	YES	B30-1779-05	B30-1781-05	—	750	470	560	—
	KDC-MP243/SW	M2/M6	X16-6460-11	YES	B30-1779-05	B30-1779-05	—	750	470	750	—
	KDC-MP3043	M3	X16-6460-11	YES	B30-1779-05	B30-1779-05	—	750	470	750	—
	KDC-MP343	M4	X16-6462-72	YES	B30-1780-05	B30-1780-05	B30-1780-05	750	470	750	470
	KDC-MP343S	M5	X16-6460-11	YES	B30-1779-05	B30-1779-05	—	750	470	750	—
	KDC-MP443	M1	X16-6460-11	YES	B30-1779-05	B30-1779-05	—	750	470	750	—
	KDC-W3044A/AY	E1/E6	X16-6460-11	YES	B30-1779-05	B30-1779-05	—	750	470	750	—
	KDC-W3044G/GY	E2/E7	X16-6462-72	YES	B30-1780-05	B30-1780-05	B30-1780-05	750	470	750	470
	KDC-W313A/AY	E3/E8	X16-6460-11	YES	B30-1779-05	B30-1779-05	—	750	470	750	—
	KDC-W313G/GY	E4/E9	X16-6462-72	YES	B30-1780-05	B30-1780-05	B30-1780-05	750	470	750	470
KDC-W3544W/WY	E/E5	X16-6462-71	YES	B30-1788-05	B30-1788-05	—	1K	470	1K	—	
VISTEON	CKDCMP1042	R	X16-6643-20	YES	B30-1779-05	B30-1779-05	—	750	470	750	—
	CKDCMP6079FD	R1	X16-6643-21	—	B30-1780-05	B30-1780-05	B30-1780-05	750	470	750	470
	CKDCMP6079FT	R3	X16-6643-23	—	B30-1534-05	B30-1534-05	B30-1534-05	820	580	820	560
	CKDCMP6079VW	R2	X16-6643-22	—	B30-1779-05	B30-1779-05	—	750	470	750	—

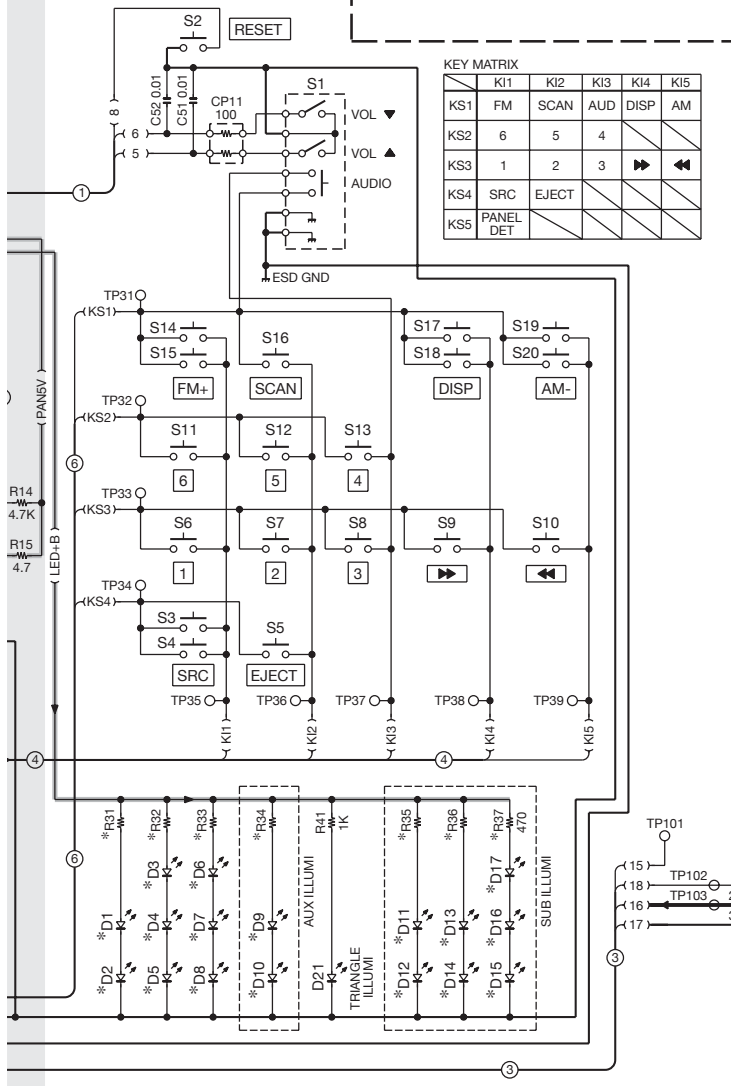


ED1 : 3-BT-262N D1-8 : *
 IC1 : BU9754KV-E2 D9-14 : *
 IC2 : PIC95603 D15-17 : *
 D21 : B30-1779-05

— SIGNAL LINE
 — GND LINE
 — +B LINE

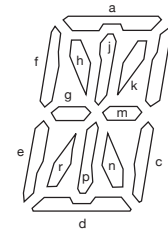
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
 ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably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

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

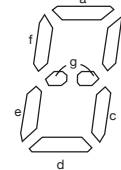


KEY MATRIX

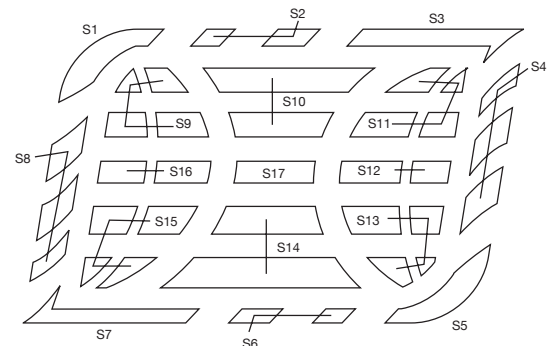
	KI1	KI2	KI3	KI4	KI5
KS1	FM	SCAN	AUD	DISP	AM
KS2	6	5	4		
KS3	1	2	3	▶▶	◀◀
KS4	SRC	EJECT			
KS5	PANEL DET				



(1GB,2GB,3G)



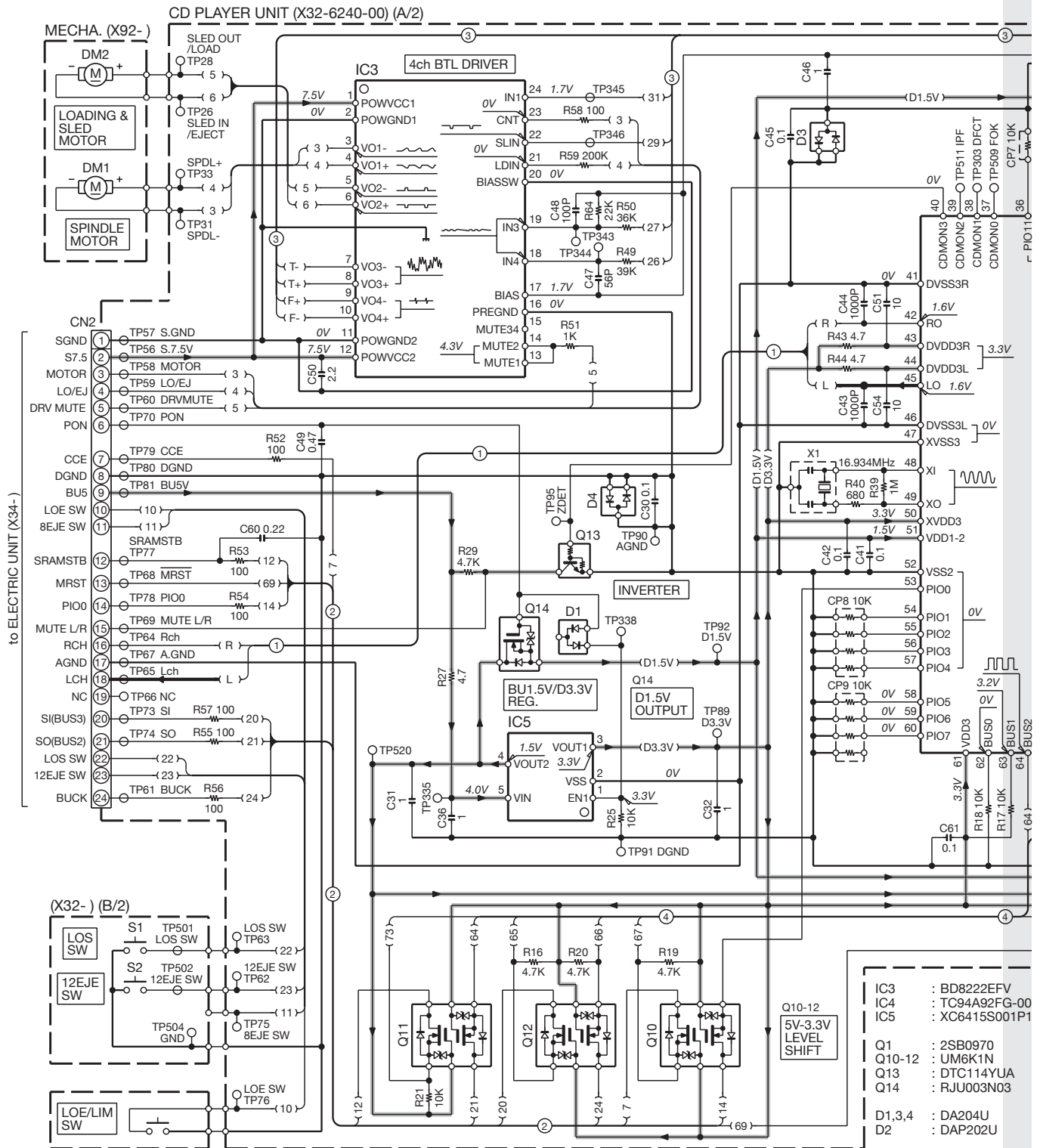
(2GA)

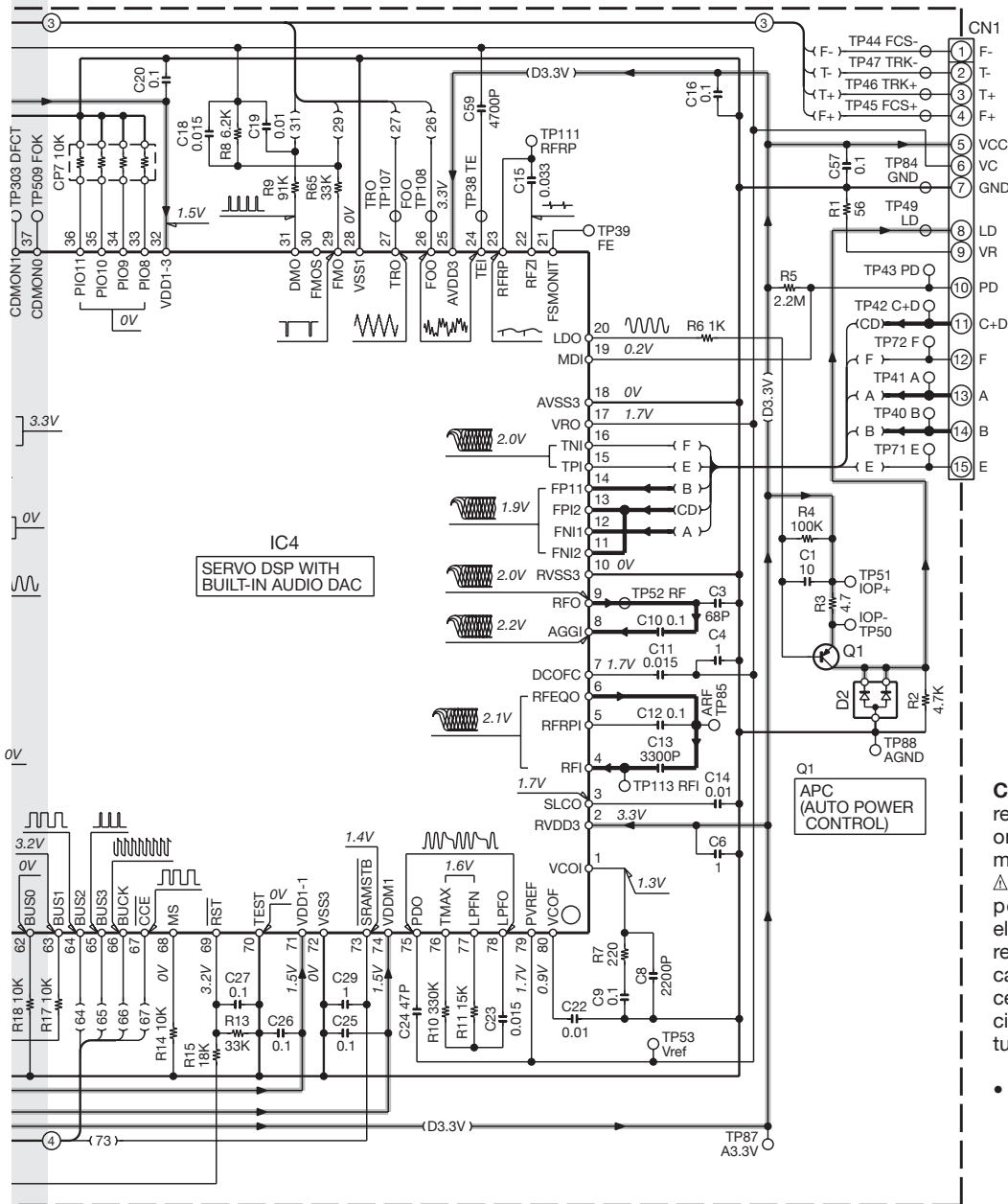


(1GA)

KDC-W3044A/W3044AY/W3044G/W3044GY/W313A/W313AY
 /W313G/W313GY/W3544W/W3544WY (2/2)

KDC-W3044A/W3044AY/W3044G/W3044GY/W313A
 KDC-W313AY/W313G/W313GY/W3544W/W3544WY

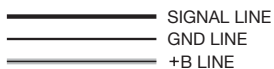




CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
 ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably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

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

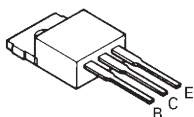
22EFV
 A92FG-001
 15S001P1



970
 K1N
 14YUA
 03N03

4U
 02U

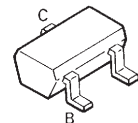
2SB1565



DTC114YUA



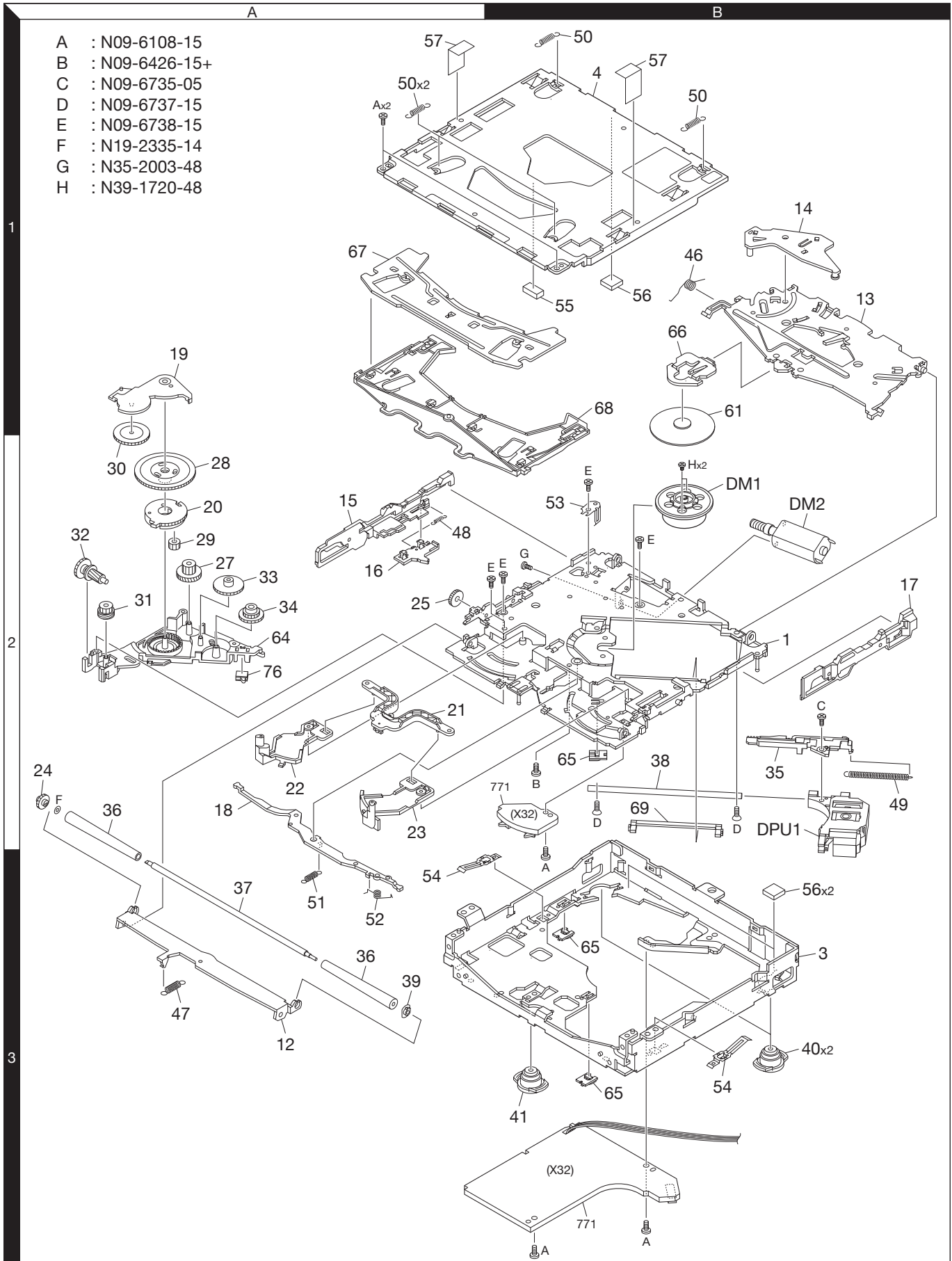
2SC4081



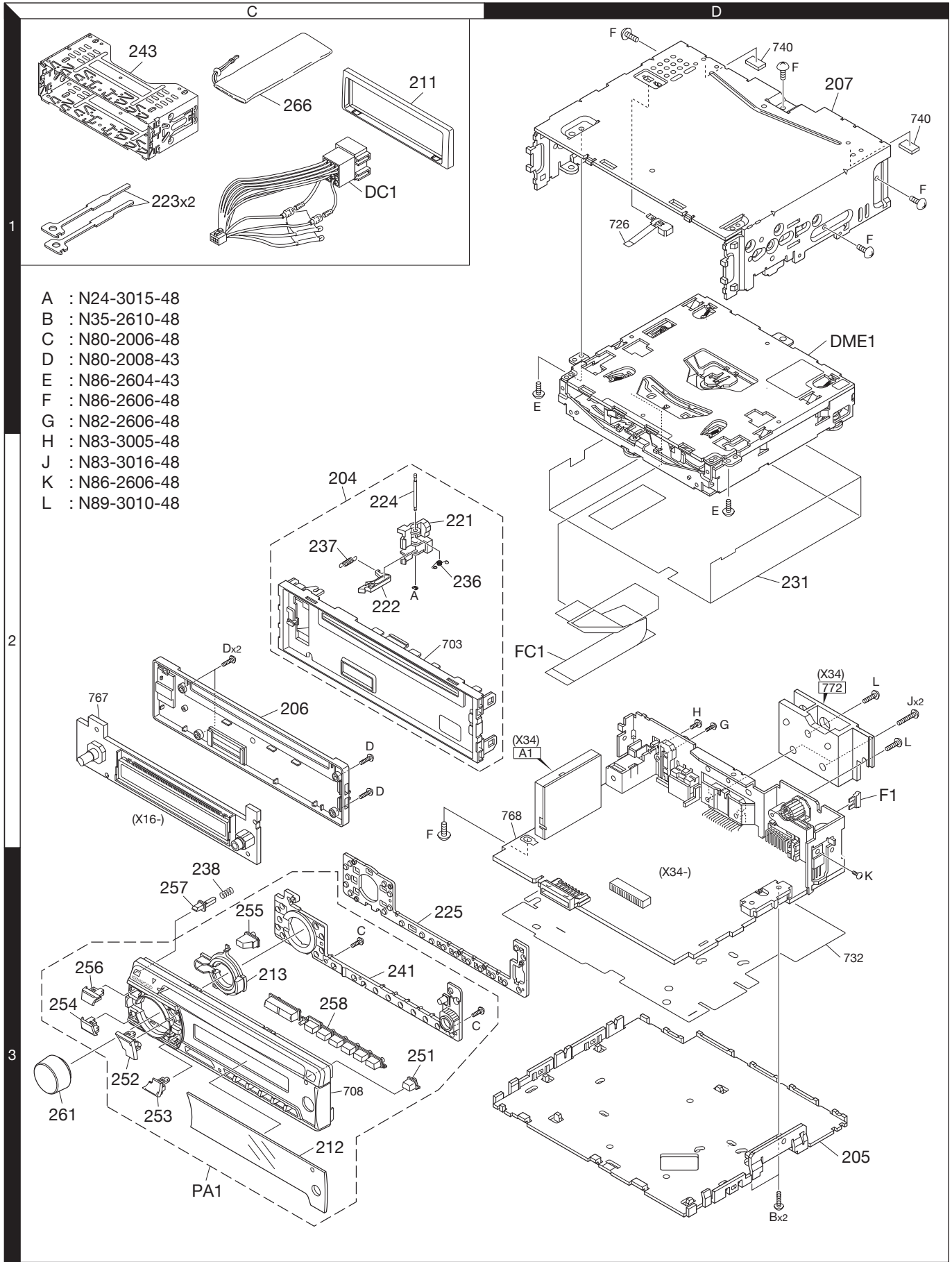
DAP202U
DA204U



EXPLODED VIEW (CD MECHANISM)



EXPLODED VIEW (UNIT)



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

PARTS LIST

* New parts

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

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

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

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
KDC-W3044xx/W313xx/W3544xx					
204	2C	*	A22-3199-03	SUB PANEL ASSY	
205	3D	*	A40-1359-01	BOTTOM PLATE	
206	2C	*	A46-1881-01	REAR COVER	
207	1D	*	A52-1107-01	TOP COVER	
PA1	3C	*	A64-4656-02	PANEL ASSY	EE5
PA1	3C	*	A64-4657-02	PANEL ASSY	E1E2E6
PA1	3C	*	A64-4657-02	PANEL ASSY	E7
PA1	3C	*	A64-4658-02	PANEL ASSY	E3E4E8
PA1	3C	*	A64-4658-02	PANEL ASSY	E9
-		*	B64-4214-00	INST. MANUAL (ENGLISH)	
-		*	B64-4215-00	INST. MANUAL (FRE.GER.DUT.)	EE1E2
-		*	B64-4215-00	INST. MANUAL (ITA.SPA.POR.)	EE1E2
-		*	B64-4215-00	INST. MANUAL (FRE.GER.DUT.)	E3E4
-		*	B64-4215-00	INST. MANUAL (ITA.SPA.POR.)	E3E4
-		*	B64-4216-00	INST. MANUAL (RUS.UKR.)	E5E6E7
-		*	B64-4216-00	INST. MANUAL (RUS.UKR.)	E8E9
211	1C	*	B07-3270-01	ESCUTCHEON	
212	3C	*	B10-5168-01	FRONT GLASS	EE5
212	3C	*	B10-5169-01	FRONT GLASS	E1E2E6
212	3C	*	B10-5169-01	FRONT GLASS	E7
212	3C	*	B10-5170-01	FRONT GLASS	E3E4E8
212	3C	*	B10-5170-01	FRONT GLASS	E9
213	3C	*	B19-2513-03	LIGHTING BOARD	
221	2C		D10-4446-03	LEVER	
222	2C		D10-4447-03	LEVER	
223	1C	*	D10-7049-04	LEVER	
224	2C		D21-2329-04	SHAFT	
225	3C	*	E29-2127-02	CONDUCTIVE RUBBER	
△ DC1	1C	*	E30-6800-05	DC CORD	
FC1	2D		E39-1017-05	FLAT CABLE	
231	2D	*	F11-1870-03	SHIELD COVER	
△ F1	2D		F52-0023-05	FUSE (MINI BLADE TYPE) (10A)	
236	2C		G01-2987-04	TORSION COIL SPRING	
237	2C		G01-3096-04	EXTENSION SPRING	
238	3C		G01-3244-04	COMPRESSION SPRING (REL)	
-		*	H54-4441-03	ITEM CARTON CASE	E
-		*	H54-4442-03	ITEM CARTON CASE	E1
-		*	H54-4443-03	ITEM CARTON CASE	E2
-		*	H54-4444-03	ITEM CARTON CASE	E3
-		*	H54-4445-03	ITEM CARTON CASE	E4
-		*	H54-4446-03	ITEM CARTON CASE	E5
-		*	H54-4447-03	ITEM CARTON CASE	E6
-		*	H54-4448-03	ITEM CARTON CASE	E7
-		*	H54-4449-03	ITEM CARTON CASE	E8
-		*	H54-4450-03	ITEM CARTON CASE	E9
241	3C	*	J19-7230-01	HOLDER	
243	1C	*	J22-0789-03	MOUNTING HARDWARE ASSY	
251	3C	*	K24-4955-04	PUSH KNOB (EJECT)	
252	3C	*	K24-4956-03	PUSH KNOB (FM)	
253	3C	*	K24-4957-03	PUSH KNOB (AM)	
254	3C	*	K24-4958-03	PUSH KNOB (DISP)	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
255	3C	*	K24-4959-04	PUSH KNOB (SEARCH)	
256	3C	*	K24-4960-03	PUSH KNOB (SRC)	
257	3C	*	K24-4961-04	PUSH KNOB (RELEASE)	
258	3C	*	K25-1937-02	PUSH KNOB (PRESET)	
261	3C	*	K28-0337-04	KNOB ASSY (VOL)	
A	2C		N24-3015-48	E TYPE RETAINING RING	
B	3D		N35-2610-48	BINDING HEAD MACHINE SCREW	
C	3C		N80-2006-48	PAN HEAD TAPTITE SCREW	
D	2C		N80-2008-43	PAN HEAD TAPTITE SCREW	
E	2D		N86-2604-43	BINDING HEAD TAPTITE SCREW	
F	1D		N86-2606-48	BINDING HEAD TAPTITE SCREW	
266	1C		W01-1710-05	CARRYING CASE	
DME1	1D	*	X92-6320-00	MECHANISM ASSY (DXM-9B10W)	
SWITCH UNIT (X16-646x-xx)					
D1 -14			B30-1779-05	LED (1608,SR)	E1E3E6
D1 -14			B30-1779-05	LED (1608,SR)	E8
D1 -14			B30-1788-05	LED (1608,WHITE)	EE5
D1 -17			B30-1780-05	LED (1608,PG)	E2E4E7
D1 -17			B30-1780-05	LED (1608,PG)	E9
D21			B30-1779-05	LED (1608,SR)	
C11			CK73GB1A105K	CHIP C 1.0UF K	
C12			CK73GB1H104K	CHIP C 0.10UF K	
C21			CK73GB1A105K	CHIP C 1.0UF K	
C51 ,52			CK73GB1H103K	CHIP C 0.010UF K	
J1			E59-0852-05	RECTANGULAR PLUG	
J2			E11-0654-05	3.5D PHONE JACK	
CP11			RK74GA1J101J	CHIP-COM 100 J 1/16W	
R11			RK73GB2A473J	CHIP R 47K J 1/10W	
R12			RK73GB2A221J	CHIP R 220 J 1/10W	
R13			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R14			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R15			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R21			RK73GB2A104J	CHIP R 100K J 1/10W	
R22			RK73GB2A101J	CHIP R 100 J 1/10W	
R31			RK73FB2B102J	CHIP R 1.0K J 1/8W	EE5
R31			RK73FB2B751J	CHIP R 750 J 1/8W	E1E2E3
R31			RK73FB2B751J	CHIP R 750 J 1/8W	E4E6E7
R31			RK73FB2B751J	CHIP R 750 J 1/8W	E8E9
R32 ,33			RK73FB2B471J	CHIP R 470 J 1/8W	
R34 -36			RK73FB2B102J	CHIP R 1.0K J 1/8W	EE5
R34 -36			RK73FB2B751J	CHIP R 750 J 1/8W	E1E2E3
R34 -36			RK73FB2B751J	CHIP R 750 J 1/8W	E4E6E7
R34 -36			RK73FB2B751J	CHIP R 750 J 1/8W	E8E9
R37			RK73FB2B471J	CHIP R 470 J 1/8W	E2E4E7
R37			RK73FB2B471J	CHIP R 470 J 1/8W	E9
R41			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R61 ,62			RK73EB2E240J	CHIP R 24 J 1/4W	
S1		*	T99-0484-05	ROTARY ENCODER	
ED1		*	3-BT-262N	FLUORESCENT INDICATOR TUBE	
IC1		*	BU9754KV-E2	MOS-IC	

PARTS LIST

SWITCH UNIT (X16-646x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination
IC2			PIC95603	ANALOGUE IC	
CD PLAYER UNIT (X32-6240-00) IN CD MECHA					
C1			CK73FB0J106K	CHIP C 10UF K	
C3			CC73GCH1H680J	CHIP C 68PF J	
C4			CK73GB1A105K	CHIP C 1.0UF K	
C6			CK73FB1C105K	CHIP C 1.0UF K	
C8			CK73GB1H222K	CHIP C 2200PF K	
C9 ,10			CK73GB1C104K	CHIP C 0.10UF K	
C11			CK73GB1H153K	CHIP C 0.015UF K	
C12			CK73GB1C104K	CHIP C 0.10UF K	
C13			CK73GB1H332K	CHIP C 3300PF K	
C14			CK73GB1H103K	CHIP C 0.010UF K	
C15			CK73GB1H333K	CHIP C 0.033UF K	
C16			CK73GB1C104K	CHIP C 0.10UF K	
C18			CK73GB1H153K	CHIP C 0.015UF K	
C19			CK73GB1H103K	CHIP C 0.010UF K	
C20			CK73GB1C104K	CHIP C 0.10UF K	
C22			CK73GB1H103K	CHIP C 0.010UF K	
C23			CK73GB1H153K	CHIP C 0.015UF K	
C24			CC73GCH1H470J	CHIP C 47PF J	
C25 -27			CK73GB1C104K	CHIP C 0.10UF K	
C29			CK73GB1A105K	CHIP C 1.0UF K	
C30			CK73GB1C104K	CHIP C 0.10UF K	
C31 ,32			CK73GB1A105K	CHIP C 1.0UF K	
C36			CK73GB1A105K	CHIP C 1.0UF K	
C41 ,42			CK73GB1C104K	CHIP C 0.10UF K	
C43 ,44			CK73GB1H102K	CHIP C 1000PF K	
C45			CK73GB1C104K	CHIP C 0.10UF K	
C46			CK73GB1A105K	CHIP C 1.0UF K	
C47			CC73GCH1H560J	CHIP C 56PF J	
C48			CC73GCH1H101J	CHIP C 100PF J	
C49			CK73GB1A474K	CHIP C 0.47UF K	
C50			CK73FB1A225K	CHIP C 2.2UF K	
C51			CK73FB0J106K	CHIP C 10UF K	
C54			CK73FB0J106K	CHIP C 10UF K	
C57			CK73GB1C104K	CHIP C 0.10UF K	
C59			CK73GB1H472K	CHIP C 4700PF K	
C60			CK73GB1C224K	CHIP C 0.22UF K	
C61			CK73GB1C104K	CHIP C 0.10UF K	
CN1			E41-2954-05	FLAT CABLE CONNECTOR	
CN2			E41-2083-15	FLAT CABLE CONNECTOR	
X1			L78-1221-05	RESONATOR (16.93MHZ)	
CP7 -9			RK74GB1J103J	CHIP-COM 10K J 1/16W	
R1			RK73GB2A560J	CHIP R 56 J 1/10W	
R2			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R3			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R4			RK73GB2A104J	CHIP R 100K J 1/10W	
R5			RK73GB2A225J	CHIP R 2.2M J 1/10W	
R6			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R7			RK73GB2A221J	CHIP R 220 J 1/10W	
R8			RK73GB2A622J	CHIP R 6.2K J 1/10W	
R9			RK73GB2A913J	CHIP R 91K J 1/10W	

Ref. No.	Add	New	Parts No.	Description	Destination
R10			RK73GB2A334J	CHIP R 330K J 1/10W	
R11			RK73GB2A153J	CHIP R 15K J 1/10W	
R13			RK73GB2A333J	CHIP R 33K J 1/10W	
R14			RK73GB2A103J	CHIP R 10K J 1/10W	
R15			RK73GB2A183J	CHIP R 18K J 1/10W	
R16			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R17 ,18			RK73GB2A103J	CHIP R 10K J 1/10W	
R19 ,20			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R21			RK73GB2A103J	CHIP R 10K J 1/10W	
R25			RK73GB2A103J	CHIP R 10K J 1/10W	
R27			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R29			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R39			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R40			RK73GB2A681J	CHIP R 680 J 1/10W	
R43 ,44			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R49			RK73GB2A393J	CHIP R 39K J 1/10W	
R50			RK73GB2A363J	CHIP R 36K J 1/10W	
R51			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R52 -58			RK73GB2A101J	CHIP R 100 J 1/10W	
R59			RK73GB2A204J	CHIP R 200K J 1/10W	
R64			RK73GB2A223J	CHIP R 22K J 1/10W	
R65			RK73GB2A333J	CHIP R 33K J 1/10W	
S1 ,2			S68-0924-05	PUSH SWITCH	
D1			DA204U	DIODE	
D2			DAP202U	DIODE	
D3 ,4			DA204U	DIODE	
IC3			BD8222EFV	ANALOGUE IC	
IC4		*	TC94A92FG-001	MOS-IC	
IC5		*	XC6415S001P1	MOS-IC	
Q1			2SB0970	TRANSISTOR	
Q10 -12			UM6K1N	DUAL FET	
Q13			DTC114YUA	DIGITAL TRANSISTOR	
Q14		*	RJU003N03	FET	
ELECTRIC UNIT (X34-621x-xx)					
C1			CD04AZ1C332M2	ELECTRO 3300UF 16WV	
C2			CD04AB1C220M	ELECTRO 22UF 16WV	
C3			CK73GB1H104K	CHIP C 0.10UF K	
C5			CD04AR1C221M	ELECTRO 220UF 16WV	
C7		*	CD04AV0J101M	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	
C17 ,18			CK73GB1C104K	CHIP C 0.10UF K	
C19			CK73GB1E223K	CHIP C 0.022UF 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		*	CD04AV1HR47M	ELECTRO 0.47UF 50WV	
C306,307			CK73GB1C104K	CHIP C 0.10UF K	
C308		*	CD04AV0J470M	ELECTRO 47UF 6.3WV	

E: KDC-W3544W E1: KDC-W3044A E2: KDC-W3044G E3: KDC-W313A E4: KDC-W313G
 E5: KDC-W3544WY E6: KDC-W3044AY E7: KDC-W3044GY E8: KDC-W313AY E9: KDC-W313GY

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-621x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
C310,311			CK73GB1H102K	CHIP C 1000PF K		R119			RK73GB2A473J	CHIP R 47K J 1/10W	
C401		*	CD04AV1C470M	ELECTRO 47UF 16WV		R120			RK73GB2A104J	CHIP R 100K J 1/10W	
C403		*	CD04AV1H010M	ELECTRO 1UF 50WV		R203,204			RK73GB2A103J	CHIP R 10K J 1/10W	
C404-407			CK73GB1A105K	CHIP C 1.0UF K		R205-207			RK73GB2A473J	CHIP R 47K J 1/10W	
C509,510			CK73GB1C104K	CHIP C 0.10UF K		R208			RD14BB2C473J	RD 47K J 1/6W	
C512			CK73GB1H103K	CHIP C 0.010UF K		R209,210			RD14BB2C471J	RD 470 J 1/6W	
C513		*	CD04AV1V100M	ELECTRO 10UF 35WV		R218			RK73GB2A223J	CHIP R 22K J 1/10W	
C514			CC73GCH1H331J	CHIP C 330PF J		R223			RK73GB2A222J	CHIP R 2.2K J 1/10W	
C515,516			CC73GCH1H270J	CHIP C 27PF J		R227			RK73GB2A223J	CHIP R 22K J 1/10W	E5E6E7
C601,602			CK73GB1C104K	CHIP C 0.10UF K	EE5	R227			RK73GB2A223J	CHIP R 22K J 1/10W	E8E9
C603		*	CD04AV0J470M	ELECTRO 47UF 6.3WV	EE5	R227,228			RK73GB2A473J	CHIP R 47K J 1/10W	EE1E2
C701,702		*	CD04AV1V100M	ELECTRO 10UF 35WV		R227,228			RK73GB2A473J	CHIP R 47K J 1/10W	E3E4
C801-804			CK73GB1A224K	CHIP C 0.22UF K		R228			RK73GB2A473J	CHIP R 47K J 1/10W	E5E6E7
C805		*	CD04AV1C330M	ELECTRO 33UF 16WV		R228			RK73GB2A473J	CHIP R 47K J 1/10W	E8E9
C806,807			CK73GB1A105K	CHIP C 1.0UF K		R301			RK73GB2A222J	CHIP R 2.2K J 1/10W	
C809			CK73GB1A105K	CHIP C 1.0UF K		R302			RD14BB2C101J	RD 100 J 1/6W	
C851-858			CK73GB1H472K	CHIP C 4700PF K		R303			RK73GB2A102J	CHIP R 1.0K J 1/10W	
C871,872			CC73GCH1H681J	CHIP C 680PF J		R304			RD14BB2C102J	RD 1.0K J 1/6W	
CN2			E41-1822-05	FLAT CABLE CONNECTOR		R305			RK73GB2A102J	CHIP R 1.0K J 1/10W	
J1			E58-0991-05	RECTANGULAR RECEPTACLE		R306			RK73GB2A472J	CHIP R 4.7K J 1/10W	
J2			E04-0334-05	RF COAXIAL CABLE RECEPTACLE		R307			RK73GB2A222J	CHIP R 2.2K J 1/10W	
J3			E58-1060-15	RECTANGULAR RECEPTACLE		R310-313			RK73GB2A102J	CHIP R 1.0K J 1/10W	
J4			E56-0855-05	CYLINDRICAL RECEPTACLE	EE5	R314			RK73GB2A104J	CHIP R 100K J 1/10W	
J5			E63-0937-05	PIN JACK		R315			RK73GB2A472J	CHIP R 4.7K J 1/10W	
L1			L33-2459-05	CHOKE COIL ASSY		R316,317			RK73GB2A222J	CHIP R 2.2K J 1/10W	
L401			L40-4791-58	SMALL FIXED INDUCTOR		R318			RK73GB2A472J	CHIP R 4.7K J 1/10W	
X1			L78-0879-05	RESONATOR (10.0MHZ)		R319			RK73GB2A222J	CHIP R 2.2K J 1/10W	
X2			L77-2920-05	CRYSTAL RESONATOR		R320			RK73GB2A472J	CHIP R 4.7K J 1/10W	
X3			L77-2002-05	CRYSTAL RESONATOR		R321			RK73GB2A473J	CHIP R 47K J 1/10W	
						R322			RK73GB2A471J	CHIP R 470 J 1/10W	
G	2D		N82-2606-48	BINDING HEAD TAPTITE SCREW		R330			RD14BB2C101J	RD 100 J 1/6W	
H	2D		N83-3005-48	PAN HEAD TAPTITE SCREW		R331			RK73GB2A392J	CHIP R 3.9K J 1/10W	
J	2D		N83-3016-48	PAN HEAD TAPTITE SCREW		R332			RD14BB2C101J	RD 100 J 1/6W	
K	3D		N86-2606-48	BINDING HEAD TAPTITE SCREW		R333,334			RD14BB2C102J	RD 1.0K J 1/6W	
L	2D		N89-3010-48	BINDING HEAD TAPTITE SCREW		R335			RK73GB2A473J	CHIP R 47K J 1/10W	
R1			RD14BB2C102J	RD 1.0K J 1/6W		R336-339			RD14BB2C222J	RD 2.2K J 1/6W	
R2 -5			RD14BB2C103J	RD 10K J 1/6W		R340			RK73GB2A225J	CHIP R 2.2M J 1/10W	
R11			RD14DB2H100J	SMALL-RD 10 J 1/2W		R341			RD14BB2C222J	RD 2.2K J 1/6W	
R12			RK73PB2H100J	CHIP R 10 J 1/2W		R342			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R13 -15			RD14DB2H100J	SMALL-RD 10 J 1/2W		R343			RD14BB2C102J	RD 1.0K J 1/6W	
R16			RK73FB2B681J	CHIP R 680 J 1/8W		R344,345			RD14BB2C4R7J	RD 4.7 J 1/6W	
R17			RK73GB2A272J	CHIP R 2.7K J 1/10W		R346			RD14BB2C2R2J	RD 2.2 J 1/6W	
R18			RK73GB2A473J	CHIP R 47K J 1/10W		R347			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R101,102			RD14BB2C472J	RD 4.7K J 1/6W		R348,349			RK73GB2A103J	CHIP R 10K J 1/10W	
R106			RD14BB2C332J	RD 3.3K J 1/6W		R352,353			RD14BB2C471J	RD 470 J 1/6W	
R107			RD14BB2C333J	RD 33K J 1/6W		R401			RK73GB2A103J	CHIP R 10K J 1/10W	
R108			RK73GB2A103J	CHIP R 10K J 1/10W		R402,403			RD14BB2C471J	RD 470 J 1/6W	
R109			RD14BB2C223J	RD 22K J 1/6W		R501			RK73GB2A471J	CHIP R 470 J 1/10W	
R110			RK73FB2B683J	CHIP R 68K J 1/8W		R502			RD14BB2C472J	RD 4.7K J 1/6W	
R111			RK73GB2A473J	CHIP R 47K J 1/10W		R503			RK73GB2A471J	CHIP R 470 J 1/10W	
R112			RD14BB2C203J	RD 20K J 1/6W		R504			RD14BB2C472J	RD 4.7K J 1/6W	
R113			RK73GB2A104J	CHIP R 100K J 1/10W		R506,507			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R114,115			RK73GB2A103J	CHIP R 10K J 1/10W		R508			RD14BB2C222J	RD 2.2K J 1/6W	
R116,117			RD14BB2C682J	RD 6.8K J 1/6W		R509			RK73GB2A512J	CHIP R 5.1K J 1/10W	
R118			RD14BB2C103J	RD 10K J 1/6W		R510			RK73GB2A102J	CHIP R 1.0K J 1/10W	

E: KDC-W3544W E1: KDC-W3044A E2: KDC-W3044G E3: KDC-W313A E4: KDC-W313G
 E5: KDC-W3544WY E6: KDC-W3044AY E7: KDC-W3044GY E8: KDC-W313AY E9: KDC-W313GY

△Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-621x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R512			RK73GB2A222J	CHIP R 2.2K J 1/10W		Q10			KRA303-P	DIGITAL TRANSISTOR	
R601,602			RD14BB2C100J	RD 10 J 1/6W	EE5	Q11			KRC403-P	DIGITAL TRANSISTOR	
R603			RD14BB2C4R7J	RD 4.7 J 1/6W	EE5	Q12			KRA303-P	DIGITAL TRANSISTOR	
R604			RK73GB2A102J	CHIP R 1.0K J 1/10W	EE5	Q101-103			2SC4081	TRANSISTOR	
R605			RD14BB2C101J	RD 100 J 1/6W	EE5	Q104,105			KRC404-P	DIGITAL TRANSISTOR	
R606,607			RD14BB2C102J	RD 1.0K J 1/6W	EE5	Q301			KRA307-P	DIGITAL TRANSISTOR	
R608,609			RD14BB2C101J	RD 100 J 1/6W	EE5	Q701,702			KRC410-P	DIGITAL TRANSISTOR	
R610			RD14BB2C472J	RD 4.7K J 1/6W	EE5	Q705			KRA303-P	DIGITAL TRANSISTOR	
R611			RD14BB2C101J	RD 100 J 1/6W	EE5	TH1			PRF18BE471QS2	POSITIVE RESISTOR	
R612			RD14BB2C472J	RD 4.7K J 1/6W	EE5	A1	2D	*	X86-4232-70	FRONT-END UNIT	
R613,614			RK73GB2A100J	CHIP R 10 J 1/10W	EE5	MECHANISM ASSY (X92-6320-00) DXM-9B10W					
R615			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	EE5	1	2B		A10-5450-43	CHASSIS ASSY	
R616			RK73GB2A473J	CHIP R 47K J 1/10W	EE5	3	3B	*	A10-5452-41	CHASSIS	
R617			RK73GB2A104J	CHIP R 100K J 1/10W	EE5	4	1B	*	A10-5453-32	CHASSIS	
R618,619			RD14BB2C104J	RD 100K J 1/6W	EE5	12	3A		D10-4993-52	LEVER	
R620			RK73GB2A104J	CHIP R 100K J 1/10W	EE5	13	1B	*	D10-4991-02	ARM	
R701,702			RK73GB2A331J	CHIP R 330 J 1/10W		14	1B	*	D10-4992-03	ARM	
R703,704			RD14BB2C223J	RD 22K J 1/6W		15	2A	*	D10-4994-02	SLIDER	
R705,706			RD14BB2C181J	RD 180 J 1/6W		16	2A	*	D10-4995-03	SLIDER	
R802			RK73GB2A333J	CHIP R 33K J 1/10W		17	2B	*	D10-4996-02	SLIDER	
R803			RK73GB2A473J	CHIP R 47K J 1/10W		18	2A	*	D10-4997-03	LEVER	
R804			RK73GB2A331J	CHIP R 330 J 1/10W		19	1A	*	D10-4998-03	ARM	
R805			RK73GB2A223J	CHIP R 22K J 1/10W		20	2A	*	D10-4999-03	ARM	
R806			RK73GB2A912J	CHIP R 9.1K J 1/10W		21	2A	*	D10-7001-03	ARM	
R808			RK73GB2A100J	CHIP R 10 J 1/10W		22	2A	*	D10-7002-03	ARM	
R809,810			RK73GB2A102J	CHIP R 1.0K J 1/10W		23	2A	*	D10-7003-03	ARM	
R811			RD14BB2C473J	RD 47K J 1/6W		24	2A	*	D13-2445-04	GEAR	
R812			RK73EB2E000J	CHIP R 0.0 J 1/4W		25	2A	*	D13-2446-04	GEAR	
D1			S2V60-5009F46	DIODE		27	2A	*	D13-2448-04	GEAR	
D2	*		HZS9-E (A1)	ZENER DIODE		28	2A	*	D13-2449-04	GEAR	
D3			D1F60-5063	DIODE		29	2A	*	D13-2450-04	GEAR	
D7	*		HZS11-E (C3)	ZENER DIODE		30	2A	*	D13-2451-04	GEAR	
D101-104			D1F60-5063	DIODE		31	2A	*	D13-2452-04	GEAR	
D106-108			MTZJ6.8 (B)	ZENER DIODE		32	2A	*	D13-2453-04	GEAR	
D109	*		HZS5-E (B1)	ZENER DIODE		33	2A	*	D13-2454-04	GEAR	
D110			KDS121-P	DIODE		34	2A	*	D13-2455-04	GEAR	
D306	*		HZS7-E (A3)	ZENER DIODE		35	2B	*	D13-2456-03	RACK (GEAR)	
D401			1SS133	DIODE		36	2A	*	D14-1028-04	ROLLER	
D601-606	*		HZS7-E (A3)	ZENER DIODE	EE5	37	3A		D21-2507-04	SHAFT	
D801,802			1SS133	DIODE		38	2B		D21-2508-04	SHAFT	
IC1	*		30622MEPB70FP	MICROCONTROLLER IC	E1E2E3	39	3A	*	D23-0963-04	RETAINER	
IC1	*		30622MEPB70FP	MICROCONTROLLER IC	E4E6E7	40	3B		D39-0277-15	DAMPER	
IC1	*		30622MEPB70FP	MICROCONTROLLER IC	E8E9	41	3B		D39-0278-15	DAMPER	
IC1	*		30622MGPB71FP	MICROCONTROLLER IC	EE5	46	1B	*	G01-4682-24	TORSION COIL SPRING	
IC2			E-TDA7719	ANALOGUE IC		47	3A		G01-4683-14	EXTENSION SPRING	
IC4	*		BD4914-V4	ANALOGUE IC		48	2A		G01-4684-04	EXTENSION SPRING	
IC6	*		E-TDA7851A	ANALOGUE IC		49	2B		G01-4685-04	EXTENSION SPRING	
IC7	*		E-TDA7478AD	ANALOGUE IC		50	1B		G01-4686-14	EXTENSION SPRING	
IC8			XC6120N362N1	MOS-IC		51	3A		G01-4688-14	EXTENSION SPRING	
Q2			2SB1565	TRANSISTOR		52	3A	*	G01-4692-24	TORSION COIL SPRING	
Q3			2SC4081	TRANSISTOR		53	2B	*	G02-1587-04	FLAT SPRING	
Q7			KRC403-P	DIGITAL TRANSISTOR		54	3A	*	G02-1588-04	FLAT SPRING	
Q8			2SB1565	TRANSISTOR		55	1B		G13-1297-04	CUSHION	
Q9			2SC4081	TRANSISTOR							

E: KDC-W3544W E1: KDC-W3044A E2: KDC-W3044G E3: KDC-W313A E4: KDC-W313G
E5: KDC-W3544WY E6: KDC-W3044AY E7: KDC-W3044GY E8: KDC-W313AY E9: KDC-W313GY

△ Indicates safety critical components.

PARTS LIST

MECHANISM ASSY (X92-6320-00) DXM-9B10W

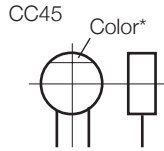
Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
56	1B		G13-1299-14	CUSHION							
57	1A		G16-1715-04	SHEET							
61	1B	*	J11-0675-03	CLAMPER							
64	2A		J19-7210-21	HOLDER							
65	2B	*	J19-7225-04	HOLDER							
66	1B	*	J22-0706-03	MOUNTING HARDWARE							
67	1A	*	J22-0707-02	MOUNTING HARDWARE							
68	1B		J90-1170-21+	GUIDE							
69	2B	*	J90-1168-03	RAIL							
A	1A		N09-6108-15	TAPTITE SCREW (M2X3.5)							
B	2B		N09-6426-15+	MACHINE SCREW							
C	2B		N09-6735-05	TAPTITE SCREW							
D	2B		N09-6737-15	MACHINE SCREW							
E	2B		N09-6738-15	TAPTITE SCREW							
F	2A		N19-2335-14	FLAT WASHER							
G	2B		N35-2003-48	BINDING HEAD MACHINE SCREW							
H	2B		N39-1720-48	PAN HEAD MACHINE SCREW							
76	2A		S68-0921-05	PUSH SWITCH							
DM1	2B		X94-2090-00	SPINDLE MOTOR ASSY							
DM2	2B		X94-2100-00	FEED MOTOR ASSY (LOAD/SLED)							
DPU1	2B		X93-2260-01	OPTICAL PICKUP ASSY							

KDC-W3044A/W3044AY/W3044G/W3044GY/W313A KDC-W313AY/W313G/W313GY/W3544W/W3544WY PARTS LIST

CAPACITORS

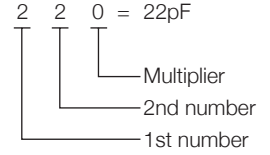
CC 45 TH 1H 220 J
1 2 3 4 5 6

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



Capacitor value

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



Temperature coefficient

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

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

Example : CC45TH = -470±60ppm/°C

Tolerance (More than 10pF)

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

(Less than 10pF)

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

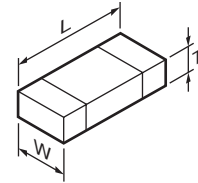
Voltage rating

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

Chip capacitors

- (EX) CC 73 F SL 1H 000 J
1 2 3 4 5 6 7
- (Chip) (CH, RH, UJ, SL)
- (EX) CK 73 F F 1H 000 Z
1 2 3 4 5 6 7
- (Chip) (B, F)
- Refer to the table above.
- 1 = Type
 - 2 = Shape
 - 3 = Dimension
 - 4 = Temp. coefficient
 - 5 = Voltage rating
 - 6 = Value
 - 7 = Tolerance

Dimension



Chip capacitor

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

RESISTORS

Chip resistor (Carbon)

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

Carbon resistor (Normal type)

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

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

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		

SPECIFICATIONS

FM tuner section

Frequency range (50kHz space).....	87.5MHz~108.0MHz
Usable sensitivity (S/N=26dB).....	0.7 μ V/75 Ω
Quieting Sensitivity (S/N=46dB).....	1.6 μ V/75 Ω
Frequency response (\pm 3dB).....	30Hz~15kHz
Signal to Noise ratio (MONO).....	65dB
Selectivity (DIN) (\pm 400kHz).....	\geq 80dB
Stereo separation (1kHz).....	35dB

MW tuner section

Frequency range (9kHz space).....	531kHz~1611kHz
Usable sensitivity (S/N=20dB).....	25 μ V

LW tuner section

Frequency range	153kHz~281kHz
Usable sensitivity (S/N=20dB).....	45 μ V

CD player section

Laser diode.....	GaAlAs
Digital filter (D/A).....	8 Times Over Sampling
D/A Converter.....	24Bit
Spindle speed	500~200rpm (CLV)
Wow & Flutter	Below Measurable Limit
Frequency response (\pm 1dB).....	20Hz~20kHz
Total harmonic distortion (1kHz).....	0.01%
Signal to Noise ratio (1kHz).....	105dB
Dynamic range	93dB
MP3 decode.....	Compliant with MPEG-1/2 Audio Layer-3
WMA decode.....	Compliant with Windows Media Audio

Audio section

Maximum output power	50W x 4
Output power (DIN 45324, +B=14.4V)	30W x 4
Speaker Impedance	4~8 Ω
Tone action	
Bass	100Hz \pm 8dB
Middle	1kHz \pm 8dB
Treble	10kHz \pm 8dB
Preout level / Load (CD)	2000mV/10k Ω
Preout impedance	\leq 600 Ω

Auxiliary input

Frequency response (\pm 3dB).....	20Hz~20kHz
Input Maximum Voltage.....	1200mV
Input Impedance	10k Ω

General

Operating voltage (11~16V allowable).....	14.4V
Current consumption.....	10A
Installation Size (W x H x D)	182 x 53 x 155mm
Weight	1.30kg

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

DANGER:

Please do not look at the laser beam directly during repair or operation check.

