CD RECEIVER

KDC-MP408U/MP438U/X492
KDC-MP5039U/MP5539U
KDC-W5041UA/W5041UG
KDC-W5141UAY/W5141UGY
KDC-W5541U/W5641UY
SERVICE MANUAL

KENWOOD

Kenwood Corporation

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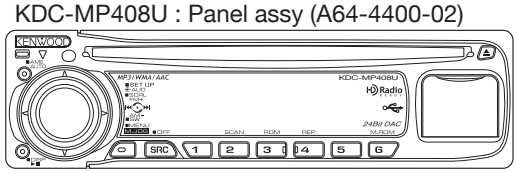
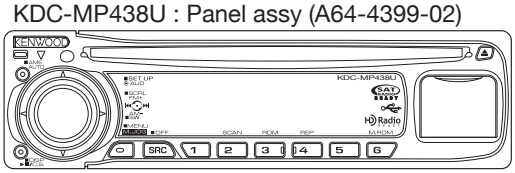
B53-0614-00 (N) 519

KDC-MP408U : Panel assy (A64-4400-02)



KDC-MP438U : Panel assy (A64-4399-02)



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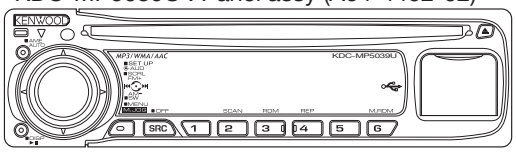
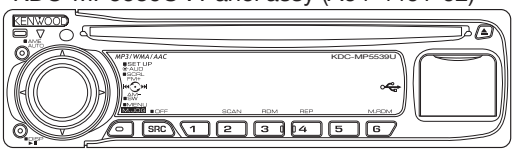
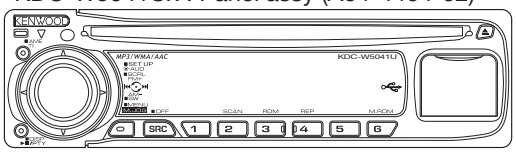


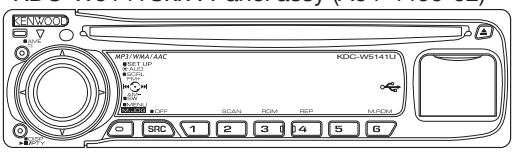
KDC-MP5539U : Panel assy (A64-4401-02)



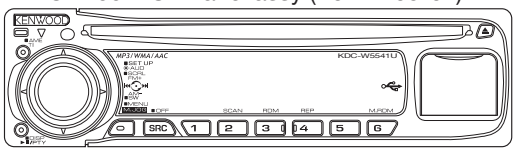
KDC-W5041Ux : Panel assy (A64-4404-02)



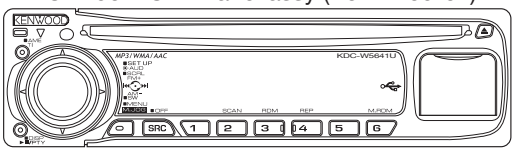
KDC-W5141Uxx : Panel assy (A64-4406-02)



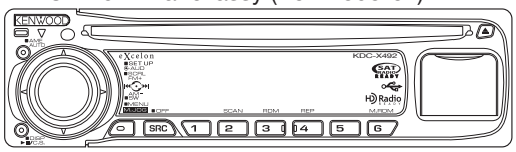
KDC-W5541U : Panel assy (A64-4403-02)



KDC-W5641UY : Panel assy (A64-4405-02)



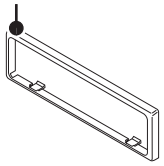
KDC-X492 : Panel assy (A64-4398-02)



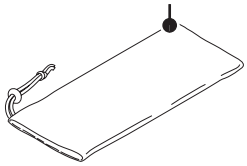
TDF SPARE-PANEL

MAIN UNIT NAME	TDF PARTS No.	TDF NAME
KDC-MP408U	Y33-2920-62	TDF-MP84DT
KDC-MP438U	Y33-2920-61	TDF-MP84D
KDC-MP5039U	Y33-2920-64	TDF-MP5039U
KDC-MP5539U	Y33-2920-63	TDF-MP5539U
KDC-W5041UA	Y33-2920-66	TDF-W5041UA
KDC-W5041UG	Y33-2920-67	TDF-W5041UG
KDC-W5141UAY	Y33-2920-66	TDF-W5041UA
KDC-W5141UGY	Y33-2920-67	TDF-W5041UG
KDC-W5541U	Y33-2920-65	TDF-W5541U
KDC-W5641UY	Y33-2920-65	TDF-W5541U
KDC-X492	Y33-2920-60	TDF-84DX

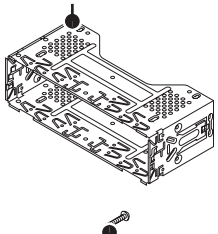
* Escutcheon
(B07-xxxx-xx)



* Carrying case
(W01-xxxx-xx)

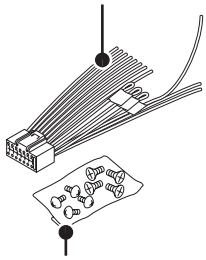


Mounting hardware assy
(J21-9716-03)



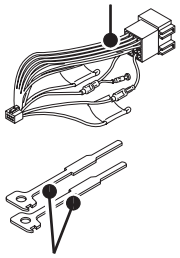
* Screw (4x16)
(N84-4016-48)

* DC cord
(E30-6428-05)



* Screw set
(N99-1757-15)

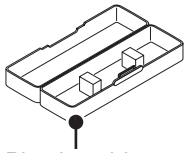
* DC cord
(E30-6671-05)



Lever
(D10-7012-04) x2

* Remote controller assy (RC-547)
(A70-2085-05)

Battery
(Not supplied)



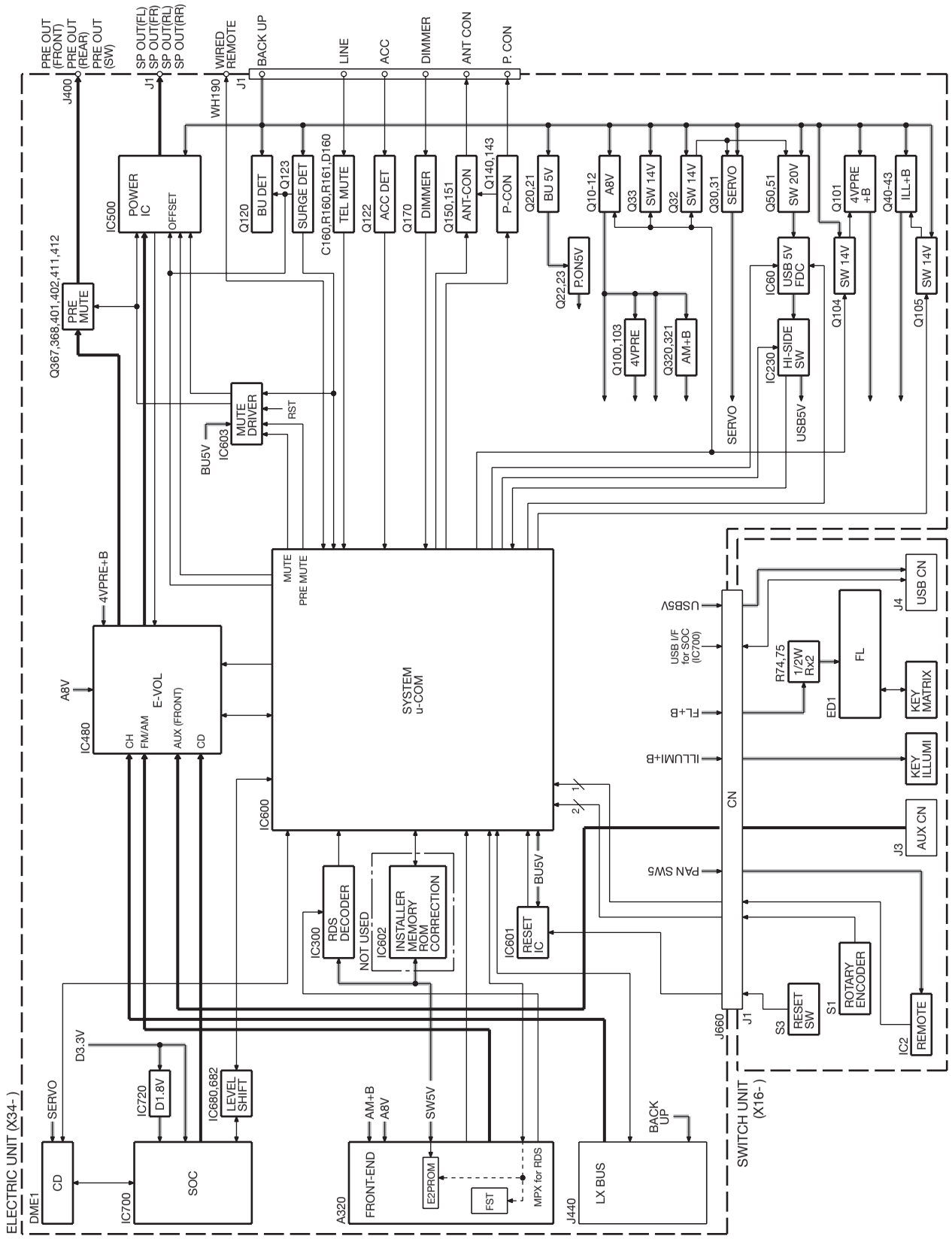
* Plastic cabinet assy
(A02-2755-13)

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

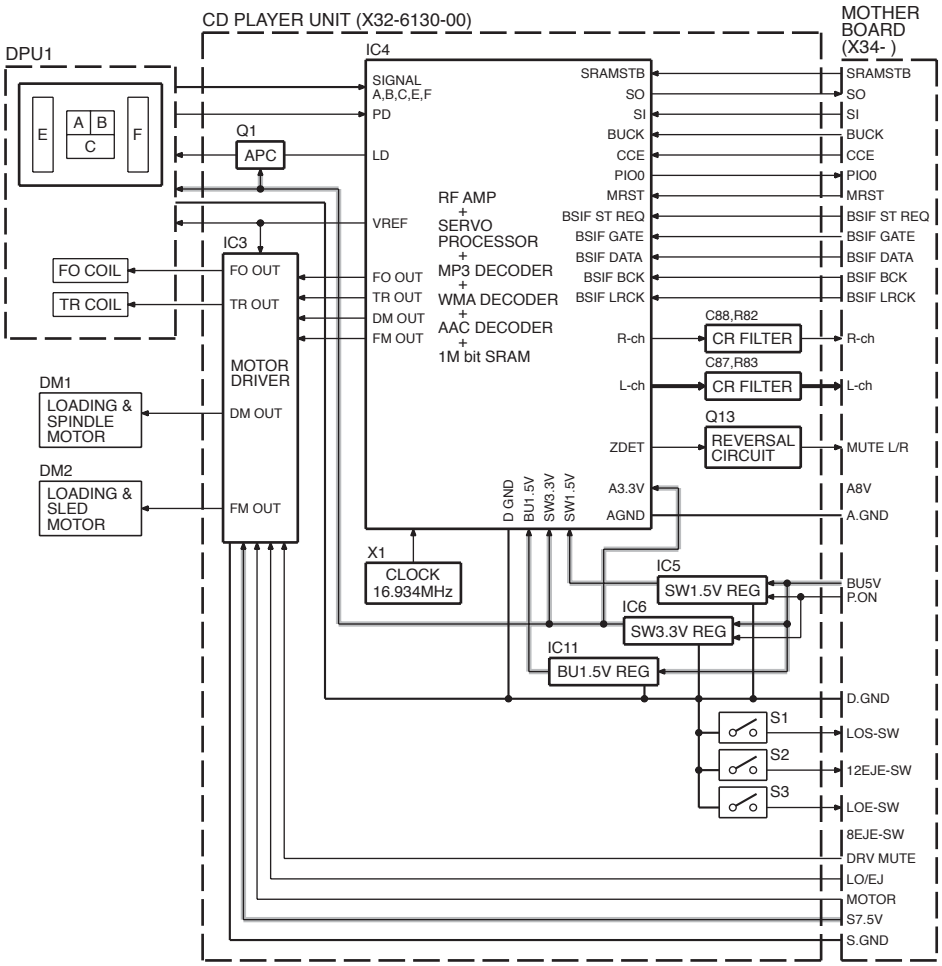
This product uses Lead Free solder.

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

BLOCK DIAGRAM



BLOCK DIAGRAM



COMPONENTS DESCRIPTION

● ELECTRIC UNIT (X34-577x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC10	A8V REF Power Supply	Outputs 1.27V.
IC20	D3.3V REG	Outputs 1.8V. Power supply for SOC.
IC60	SW REG	Outputs 5.0V. Power supply for D5V, FL+B and USB5V.
IC100	OP-AMP	Reference supply for 4V pre-out.
IC230	Hi-side SW	Overcurrent protection of USB power supply. When pin4 goes Hi, USB5V is ON.
IC300	RDS Decoder	Decodes RDS signal.
IC480	E-VOL	Controls the source, volume and tone.
IC500	Power IC	Amplifies the front L/R and the rear L/R to 50W maximum.
IC600	System µ-COM	Controls FM/AM tuner, the changer, CD mechanism, USB, panel, volume and tone.
IC601	Reset IC	Lo when detection voltage goes below 3.6V.
IC603	Muting Logic IC	Controls logic for muting.

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC680,682	Level Shift	Converts 3.3V to 5V.
IC700	SOC (System On Chip)	Decodes MP3 or other files of audio/decompression standards by software based architecture.
IC750	iPod Authentication Coprocessor	For iPod authentication.
Q10~12	A8V AVR	When Q12's base goes Hi, A8V AVR outputs 8.0V.
Q20,21	BU5V AVR	While BU is applied, BU5V AVR outputs +5V.
Q22,23	P.ON5V	When Q23's base goes Hi, SW5V outputs +5V.
Q30,31	Servo+B AVR	When Q31's base goes Hi, Servo+B AVR outputs 7.5V.
Q32,33,104,105	SW14V	When Q33's (or Q105's) base goes Hi,SW14V outputs 14V.
Q40~43	ILL+B AVR	When Q43's base goes Hi, ILL+B outputs 10.5V.
Q50,51	Serge Protect for IC1	Output 20V when BU is over 20V.
Q100,103	4VPRE+B Protect	When 4VPRE+B is overcurrent, Q100 and Q103 turn Q101 off.
Q101	4VPRE+B AVR	When Q100's base is 8V, 4VPRE+B outputs 7.4V.
Q120	BU DET	When the base goes Hi, Q120 is turned on.
Q122	ACC DET	When the base goes Hi, Q122 is turned on.
Q123	Serge DET	When the base goes Hi, BU DET is turned off.
Q140,143	P-CON SW	When Q143's base goes Hi, AVR outputs 14V.
Q141,142	P-CON Protection	When P.CON output voltage decrease is detected, output protection is made. When P.CON SW is ON, malfunction of Q140 is protected.
Q150,151	P-ANT SW	When Q151's base goes Hi, P-ANT SW outputs 14V.
Q170	Small Lamp DET SW	When the base goes Hi, Q170 is turned on.
Q320,321	AM+B	When Q321's base goes Hi, AM+B is output.
Q367,368,401, Q402,411,412	Pre-out Mute SW	When a base goes Hi, pre-out is muted.
Q500	Electric Discharge Circuit for C508 (SVR)	When the base goes Lo, Q500 is turned on.

● SWITCH UNIT (X16-622x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC2	Remote Control Sensor	
Q5,21	PAN5V SW	When Q5's base goes Hi, PAN5V outputs 5V.
Q20	VFD Restart	In condition of the base is Hi, key-scan starts at the same time as POWER ON.
Q22~24	Grid Driver	When each transistor's base is Lo, grid is ON.

● CD PLAYER UNIT (X32-6130-00)

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/AAC decoder and 1M-bit-SRAM.
IC5	D1.5V REG.	Power supply for digital 1.5V.
IC6	D3.3V REG.	Power supply for digital 3.3V.
IC11	BU1.5V REG.	Power supply for back-up 1.5V.
Q1	APC (Auto Power Control)	Drives LD (Laser Diode).
Q13	Inverter	Inverts ZDET signal.
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: IC600 on X34- (ELECTRIC UNIT)

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing / Operation / Description
1	REMO	I	External display remote control input Panel remote control input		
2	LX REQ M	O	Communication request to slave unit		
3-5	NC	-	Not used		Output L fixed
6	BYTE	-			
7	CNVSS	-			
8	XCIN	-	Sub clock		32.768kHz
9	XCOUT	-	Sub clock		32.768kHz
10	RESET	-			
11	XOUT	-	Main clock		12.00MHz
12	VSS	-			
13	XIN	-	Main clock		12.00MHz
14	VCC1	-			
15	NMI	-			
16	LX REQ S	I	Communication request from slave unit		
17	RDS CLK	I	RDS decoder clock input		
18	PANEL DET	I	Detection of panel connector detached/attached		H: Panel detached, L: Panel attached
19	PON AM	I/O	AM power supply control		AM reception: H, No AM reception: Hi-Z
20	TUN IFC OUT	I	Front-end IFC-OUT input		H: Station found, L: No station
21	RDS AFS M	I/O	Noise detection time constant SW		
22	RDS QUAL	I/O	RDS decoder QUAL input		
23	RDS DATA	I	RDS decoder data input		
24	USB SYNC	O	Clock output for SW-REG		
25,26	NC	-	Not used		Output L fixed
27	TUN SCL	I/O	Front-end I2C clock input/output		MAX 400kHz
28	TUN SDA	I/O	Front-end I2C data input/output		
29	VFD DATA	I/O	VFD data input/output		
30	VFD INT	I	VFD INT input		
31	VFD CLK	O	VFD clock output		125kHz
32	ROTARY CCW	I	VOL key detection		Detects Pulse 15-pulse/360°, 2-click/1-pulse
33	S SYS DATA	O	Bolero serial output		
34	S SOC DATA	I	Bolero serial input		
35	S SOC SCL	I	Bolero serial clock input		
36-38	NC	-	Not used		Output L fixed
39	ROMCOR DET	I	E2PROM and Bolero writing request		H: Writing
39	EPM	I	EPM input when writing		
40	NC	-	Not used		
41	VFD RST	O	VFD reset		H: Reset cancelled, L: Reset

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing / Operation / Description
42	ROTARY CW	I	VOL key detection		Detects Pulse 15-pulse/360°, 2-pulse/1-click
43	CD MUTE	I	CD mute request		L: Mute request (Bolero), H: Normal condition
44	VFD CE	O	VFD control request		H: VFD data transfer ready
45	NC	-	Not used		Output L fixed
46	PON	O	Power supply control		H: Power ON, L: Power OFF
47,48	NC	-	Not used		Output L fixed
49	CD LOE LIM SW	I	CD detection (Chucking SW)		H: Loading completed, L: No disc
50,51	NC	-	Not used		Output L fixed
52	CD LOEJ	I/O	CD motor control	①	Refer to the truth value table
53	CD MOTOR	O	CD motor control	①	Refer to the truth value table
54	CD LOS SW	I	CD loading detection		
55	CD DISC12 SW	I	12cm CD detection		
56	PON PANEL	I/O	Panel 5V power supply		ON (For 11 minutes after ACC OFF): L Momentary power down or Panel detached or 11 minutes after ACC OFF: Hi-Z
57	NC	-	Not used		Output L fixed
58	SOC S RST	O	SOC reset		H: Normal condition, L: Reset (Bolero)
59	PON ILL	O	Key illumination power supply		H: Power ON, L: Power OFF
60	VCC2	-			
61	SOC S STOP	O	SOC stop		H: Normal condition, L: SOC stopped (Bolero)
62	VSS	-			
63	TYPE 1	I	Destination setting		
64	TYPE 2	I	Destination setting		
65	NC	-	Not used		Output L fixed
66	ANT CON	O	Power antenna control		Tuner ON: H
67	PCON	O	External amplifier control		
68,69	NC	-	Not used		Output L fixed
70	ILLUMI DET	I	Dimmer illumination detection		L: ON, H: OFF
71	NC	-	Not used		Output L fixed
72	ACC DET	I	ACC power supply detection		ACC found: L, No ACC: H
73	BU DET	I	Detection of momentary power down		BU found: L, Momentary power down: H
74	S SYS REQ	O	Communication request of system µ-com → SOC		
75	S SOC REQ	I	Communication request of SOC → system µ-com		
76	PWIC SVR	O	Power IC discharge circuit control		H: ON, L: OFF
77	PWIC MUTE	O	Power IC mute control		
78	PWIC STBY	O	Power IC standby control		
79	LINE MUTE	I	Line mute detection		TEL mute: Below 1V, NAVI mute: Over 2.5V
80	PWIC DC DET	I	DC offset detection		
81	IC2 SDA	I/O	I2C data input/output		
82	IC2 SCL	I/O	I2C clock input/output		

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing / Operation / Description
83,84	NC	-	Not used		Output L fixed
85	MUTE 0	O	E-VOL front mute		L: ON, H: OFF
86	MUTE 1	O	E-VOL rear mute		L: ON, H: OFF
87	MUTE 2	O	E-VOL SW mute		L: ON, H: OFF
88	MUTE PRE FR	O	PRE-OUT mute for FR		Mute is L during CD play: L Momentary power down: L Only condition when DUAL ZONE or NAVI INT: H fixed
89	MUTE PRE SW	O	PRE-OUT mute for SW		L: Mute ON, H: Mute OFF
90	RDS NOISE	I	FM noise detection		
91	TUN SMETER	I	S-meter input		
92	LX MUTE	I	Communication request from slave unit		H: Mute ON, L: Mute OFF
93	LX CON	O	Start-up request to slave unit		H: Slave unit ON, L: Slave unit OFF
94	AVSS	-			
95	LX RST	O	Forced reset to slave unit		H: Reset, L: Normal condition
96	VREF	-			
97	AVCC	-			
98	LX DATA S	I	Data from slave unit		
99	LX DATA M	O	Data to slave unit		
100	LX CLK	I/O	LX-BUS clock		

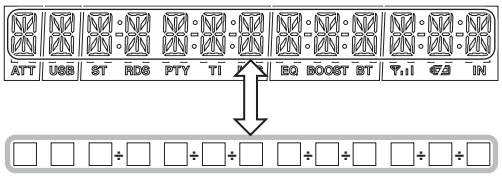
Truth value table

① CD motor control

	CD MOTOR (Pin53)	CD LOEJ (Pin52)
Stop	L	L
Load	H	L
Eject	H	H
Brake	H	Hi-z

TEST MODE

■ Example



Key	Description of display		Description
5	Disc EJECT times display	E J E C N T □ □ X X X X X	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.

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.

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 load operation 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.)
Loudness	OFF
CRSC	OFF regardless of having/not having the switching function.
AUX	ON
System Q	NATURAL (FLAT)
Preout	Rear

TEST MODE

■ Special displays when all lights are on in STANDBY source

Key	Description of display		Description
Common	All lights ON.	□ □ □÷□ □÷□÷□ □÷□÷□ □÷□÷□	All lights ON.
1	Destination terminal condition indication	T Y P E 2:1 □ T Y P E 1:1	"TYPE" indicates system µ-com (IC1) destination, and shows real-time condition of the destination terminal.
	Development ID condition indication	C 0 7 4 7 W E 2 □ – 3.0 0	Development ID – Version (system µ-com: IC1)
2	Serial No. display	S N O □ □ 0 0 0 0 0 0 0 0	Serial No. is displayed (8 digits)
3	Power ON time display	P O N T I M □ □ □ 0 H X X	00~50 is displayed for "XX". When less than 1 hour, displayed by increments of 10 minutes.
		P O N T I M □ □ X X X X X	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 I M □ □ □ □ 0 H X X	00~50 is displayed for "XX". When less than 1 hour, displayed by increments of 10 minutes.
		C D T I M □ □ □ X X X X X	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 E C N T □ □ X X X X X	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 N C N T □ □ □ X X X X X	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	System µ-com / Mecha µ-com	
		S : R 0 0 0 1 M : R 0 0 0 1	The number is the ROM correction version number.
		S : E R R □ □ M : E R R □ □	When E2PROM is not installed.
		S : R – – – – M : R – – – –	When not written in yet.
		S : R * * * * M : R * * * *	When data not matched. (due to the difference in versions)
▶▶I	Audio data initialization	A U D I O □ I N I T □ □ □	AUDIO setting value is re-set to the test mode default value.
I◀◀	Forced Power OFF information display	P O F F □ – – – □ □ □ □ □	No forced power OFF
		P O F F □ S E C □ □ □ □ □	Forced power OFF because of missing Security Code.
		P O F F □ P N L □ □ □ □ □	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	□ □ □ □ □ □ □ □ □ □ □ □ □ □	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.
AUD	Information display iPod authentication IC installation status display	□ i P o d:O K □ □ □ □ □ □	iPod authentication IC installation status display OK: The IC is installed, NG: The IC is not installed. (When key is pressed while the display in the left is being shown, returns to normal display.)
		□ i P o d:N G □ □ □ □ □ □	

TEST MODE

• CD information display mode

Key		Description of display		Description
FM (forward rotation) AM (reverse rotation)	⏮ / ⏭	CD mechanism error log display	MECHA ERR 1 : XX	Mechanism error log 1 (Latest) XX: Error number. "– –" is displayed in case there is no error.
			MECHA ERR 2 : XX	Mechanism error log 2 (Latest) XX: Error number. "– –" is displayed in case there is no error.
			MECHA ERR 3 : XX	Mechanism error log 3 (Latest) XX: Error number. "– –" is displayed in case there is no error.
	⏮ / ⏭	CD Load error information display	LOAD ERR 1 : XX	Load error switch 1 XX: Number of errors. "– –" is displayed in case there is no error.
			LOAD ERR 2 : XX	Load error switch 2 XX: Number of errors. "– –" is displayed in case there is no error.
	⏮ / ⏭	CD Ejection error information display	EJECT ERR 1 : XX	Ejection error switch 1 XX: Number of errors. "– –" is displayed in case there is no error.
			EJECT ERR 2 : XX	Ejection error switch 2 XX: Number of errors. "– –" is displayed in case there is no error.
			EJECT ERR 3 : XX	Ejection error switch 3 XX: Number of errors. "– –" is displayed in case there is no error.
			EJECT ERR 4 : XX	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)	CNT LOSE	CD time code error count data (Missing counts) mode display.
			CDDA : XX	Number of CD-DA count errors XX: Number of errors. "– –" is displayed in case there is no error.
			CDROM : XX	CD-ROM (Compressed file) number of count errors XX: Number of errors. "– –" is displayed in case there is no error.
	⏮ / ⏭	CD time code error count data display (count not updated)	CNT STAY	CD time code error count data (count not updated) mode display.
			CDDA : XX	Number of CD-DA count errors XX: Number of errors. "– –" is displayed in case there is no error.
			CDROM : XX	CD-ROM (Compressed file) Number of count errors XX: Number of errors. "– –" is displayed in case there is no error.

TEST MODE

■ 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 # 9 8 . 3 A : 4	Change to 98.3MHz with the preset key [4].

• 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 auto measurement (KDC-W5xxx only)

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

Status	Display	Description
PS data reception	F M 1 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
■▶II	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)	I◀◀ / ▶▶I	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)
	I◀◀ / ▶▶I	Seek Stop Level adjustment (Manual)	M N N V	0.00 (V) ↔ 5.00 (V). Normal (Local OFF)
	I◀◀ / ▶▶I	Seek Stop Level adjustment (Manual)	M N L V	0.00 (V) ↔ 5.00 (V). Normal (Local ON)

TEST MODE

Key		Description of display		Description
■▶II		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.
▶II		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 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 2 0:□ □ □ □ □ □ □ □	Display of Mechanism model name and Mechanism version. (When key is pressed while the display in the left is being shown, returns to servo version display.)
	Information display Mechanism servo version	□ S E R V:□ □ □ □ □ □ □ □	Display of Mechanism model name and Mechanism version. (When key is pressed while the display in the left is being shown, returns to mechanism boot program version display.)
	Information display Mechanism boot program version	□ B O O T:□ □ □ □ □ □ □ □	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/AAC)

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 □ □ □ □ □ □ □ □ □ □	
	File type display (AAC)	A A C □ □ □ □ □ □ □ □ □ □	

TEST MODE

■ 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 → HPF Front → HPF Rear → LPF Sub Woofer). (Then after, any adjustment can be done.)

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)
	HPF Front	[VOL] knob and [I◀◀ / ▶▶I] key	Adjust to 2 steps of Through ↔ 180Hz. (Default value: Through)
	HPF Rear	[VOL] knob and [I◀◀ / ▶▶I] key	Adjust to 2 steps of Through ↔ 180Hz. (Default value: Through)
	LPF Sub woofer	[VOL] knob and [I◀◀ / ▶▶I] key	Adjust to 2 steps of 60Hz ↔ Through. (Default value: Through)
	LPF Subwoofer Phase	[VOL] knob and [I◀◀ / ▶▶I] key	Adjust to 2 steps of Normal ↔ Reverse. (Default value: Normal)
	Volume Offset	[VOL] knob and [I◀◀ / ▶▶I] key	Adjust to 2 steps of -8 ↔ 0 . (Default value 0)
	Loudness	[VOL] knob and [I◀◀ / ▶▶I] key	Adjust to 2 steps of OFF ↔ ON . (Default value OFF)
	Dual Zone	[VOL] knob and [I◀◀ / ▶▶I] key	Adjust to 2 steps of OFF ↔ ON . (Default value OFF)

■ MENU-related test mode

Procedure	Note
Press the [M.JOG] 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

■ Dual Zone switching

Procedure	Note
In the except STANDBY source, press the [AUTO] key.	Switches ZONE2 ON/OFF. (Default OFF)

TEST MODE

■ 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 D □ O □ □ □ □ □ □ □ □ □	At normal termination
	C D □ X □ □ □ □ □ □ □ □ □	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)

■ 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 (KDC-MPxxxx and KDC-X492 only)

Procedure	Note
While Power OFF, press and hold [1] key and [5] key, and press [SRC] key to Power ON	FM200kHz/AM10kHz ↔ FM50kHz/AM9kHz FM50kHz/AM10kHz ↔ FM200kHz/AM10kHz (KDC-MP408U)

TEST MODE

■ Security

• Forced Power ON mode

Procedure	Note
While pressing and holding [M.JOG] 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.

• How to register the security code on the "Car Audio Passport" after replacement of the FRONT-END (A1) with E2PROM (Models for destination "M" and "E")

Procedure	Description
While pressing and holding [1] key and [3] key, reset-start	Enters the test mode
Press the [M.JOG] key	Enters the MENU mode.
Press and hold [▶II] key for 1 second or longer	Enters the security registration mode.
[FM] / [AM] / [I◀◀ / ▶▶I] key	Inputs the code. FM: Number up / AM: Number down / I◀◀ : Cursor to the left / ▶▶I : Cursor to the right
Press and hold [▶II] key for 3 seconds or longer	"RE-ENTER" is displayed.
[FM] / [AM] / [I◀◀ / ▶▶I] key	Inputs the code again. FM: Number up / AM: Number down / I◀◀ : Cursor to the left / ▶▶I : Cursor to the right
Press and hold [▶II] 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.

• Method of clearing the programmable security code (Models for destination "K")

Procedure	Display	Description
Press [▶▶I] 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 [▶▶I] key.	C O D E □ K □ □ □ □ □ □ □	
Press the remote control [2] key 3 times, display "C", and press [▶▶I] key.	C O D E □ K C □ □ □ □ □ □	
Press the remote control [2] key 1 time, display "A", and press [▶▶I] key.	C O D E □ K C A □ □ □ □ □	
Press the remote control [7] key 2 times, display "R", and press [▶▶I] 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

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 [M.JOG] key (MENU)	R O M □ R E A D □ □ □ □ □	MENU mode
Press [I◀◀] key or [▶▶I] key	R O M □ R E A D □ □ □ □ □	Front-end (A1) → Mother unit (X34-). Data transfer processing.
	R O M □ W R I T E □ □ □ □	Mother unit (X34-) → Front-end (A1). Data transfer processing.
(In the above ROM READ status), ■ [▶II] key for 2 seconds or longer	R O M □ R E A D □ □ □ □ □	Front-end (A1) → Mother unit (X34-). ROM data is being transferred.
	R O M □ R E A D □ □ O K □	Front-end (A1) → Mother unit (X34-). ROM correction transfer, security and other data is OK.
	R O M □ R E A D □ □ O K 2	Front-end (A1) → Mother unit (X34-). Transfer of security and other data is OK.
	R O M □ R E A D □ □ N G □	Front-end (A1) → Mother unit (X34-). ROM data transfer is NG.
(In the above ROM WRT status), ■ [▶II] key for 2 seconds or longer	R O M □ W R I T E □ □ □ □	Mother unit (X34-) → Front -end (A1). ROM data is being transferred.
	R O M □ W R I T E □ O K □	Mother unit (X34-) → Front-end (A1). ROM correction, security and other data transfer is OK.
	R O M □ W R I T E □ O K 1	Mother unit (X34-) → Front-end (A1). ROM correction data transfer is OK.
	R O M □ W R I T E □ O K 2	Mother unit (X34-) → Front-end (A1). Transfer of security and other data is OK.
	R O M □ W R I T E □ N G □	Mother unit (X34-) → Front-end (A1). ROM data transfer is NG
(In every status of ROM data [M.JOG] transfer processing)	□ □ □ □ □ □ □ □ □ □ □ □ □ □	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

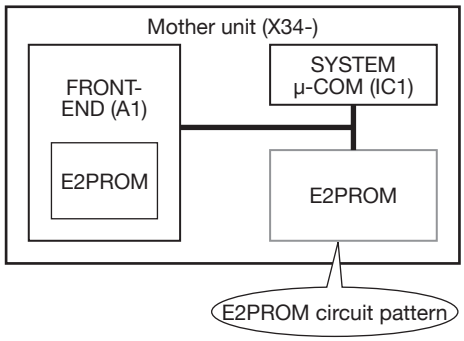
- ROM correction data
- Other data
  - Security data
  - DEMO MODE ON/OFF status
  - POWER ON time (For maintenance)
  - Playback time (For maintenance)
  - EJECT count (For maintenance)
  - Panel open/close count (For maintenance)
  - CD I2C status (For maintenance)
  - CD offset error code (For maintenance)
  - 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.)

①

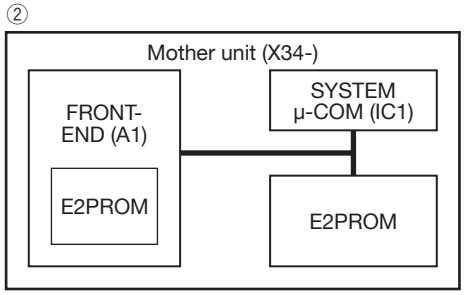


Install new E2PROM.

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

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

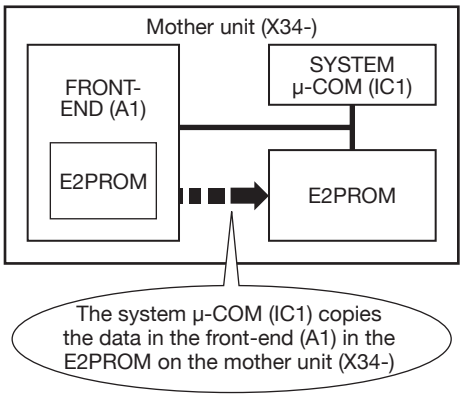
②



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)

③



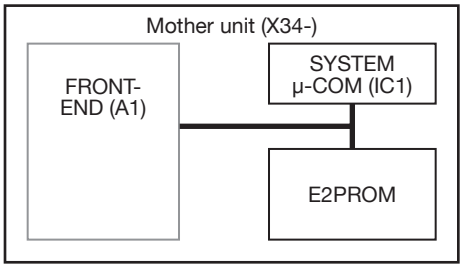
In case of [2]

In case of [1] or [3]

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

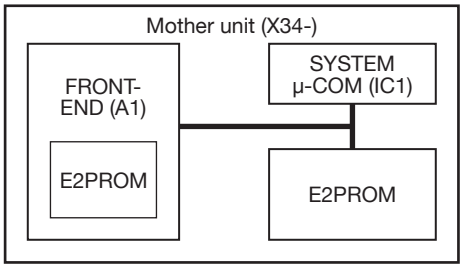
Remove front-end (A1).

④



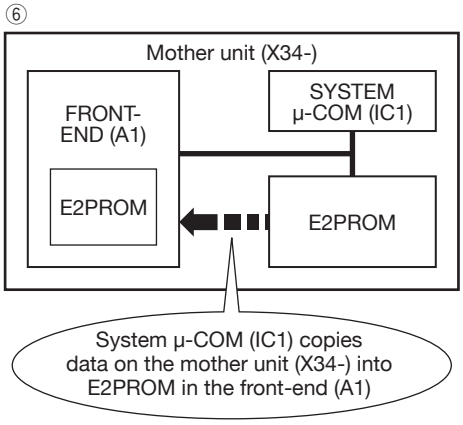
Install new front-end (A1).
No ROM correction or other data status.

⑤



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)

⑥



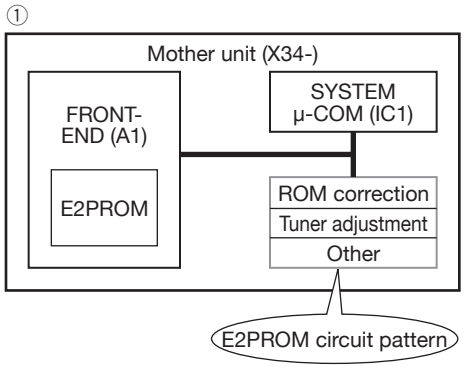
In case of [2] or [3]

In case of [1]

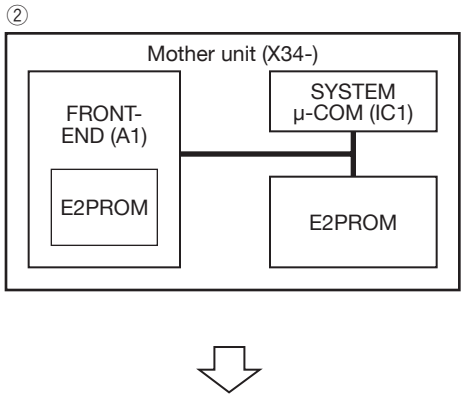
Press [⏯] key. (Exit ROM data transfer mode.)

ROM DATA TRANSFER PROCESSES

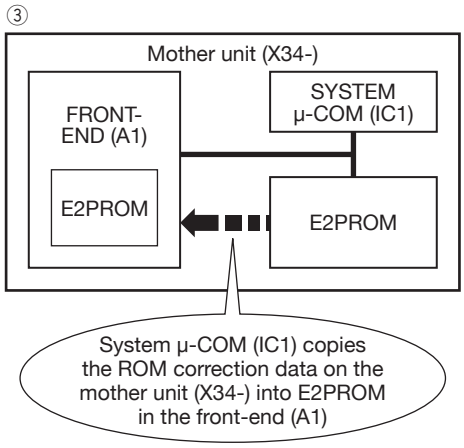
4. In case of applying a new ROM correction when front-end (A1) is replaced (There is ROM correction data.)
5. In case of applying a new ROM correction even when front-end (A1) is not replaced.



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)



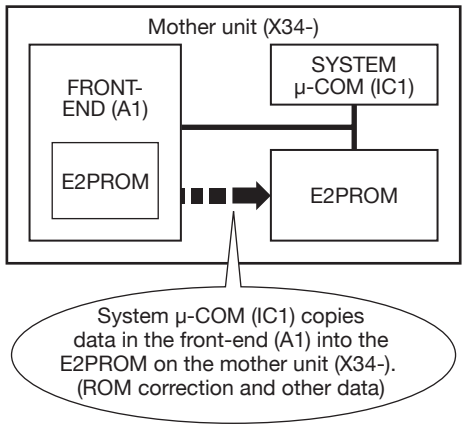
WRT OK1 W-O1

In case of [4]

In case of [5]

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

Press [⏮] (or [⏭] .) (Select READ)
Press [⏯] key for 1 second or longer. (Data transfer)



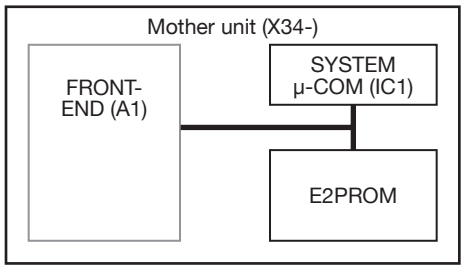
READ OK R-OK

ROM DATA TRANSFER PROCESSES

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

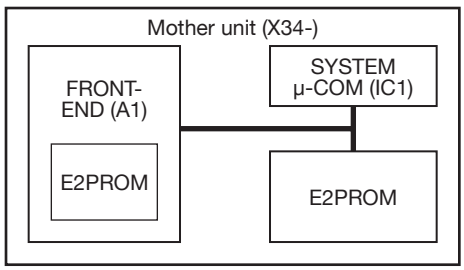
Remove front-end (A1).

④



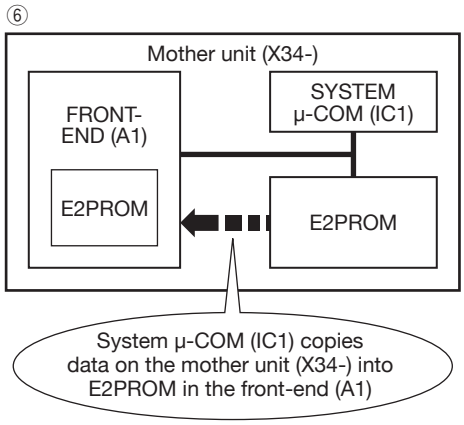
Install new front-end (A1).
No ROM correction or other data status.

⑤



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 [I◀◀] (or [▶▶I] .) (Select WRT)
Press [▶II] key for 1 second or longer. (Data transfer)

⑥



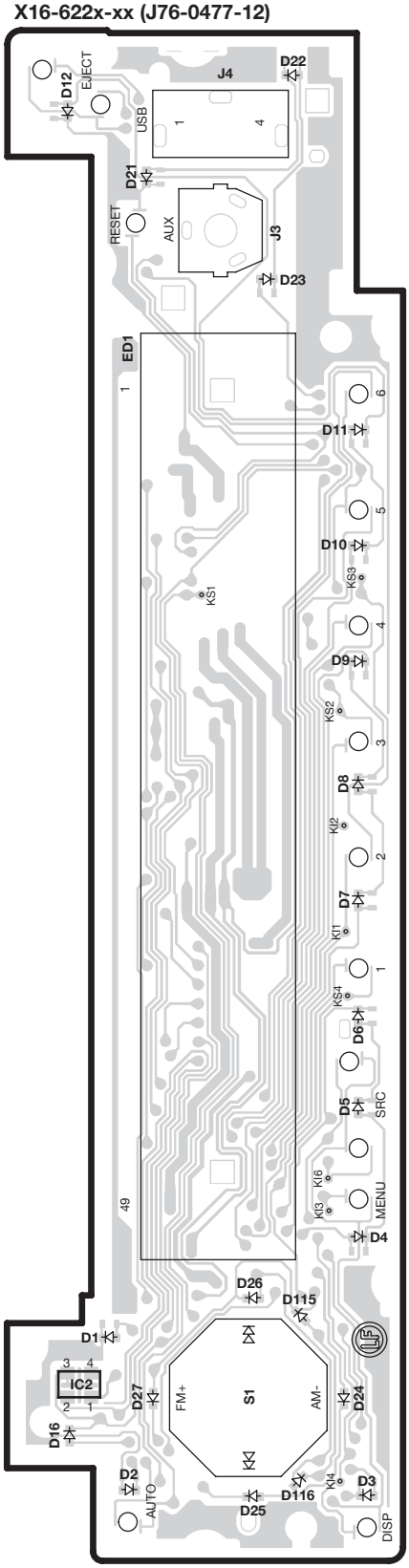
WRT OK

W-OK

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

PC BOARD (COMPONENT SIDE VIEW)

SWITCH UNIT
X16-622x-xx (J76-0477-12)

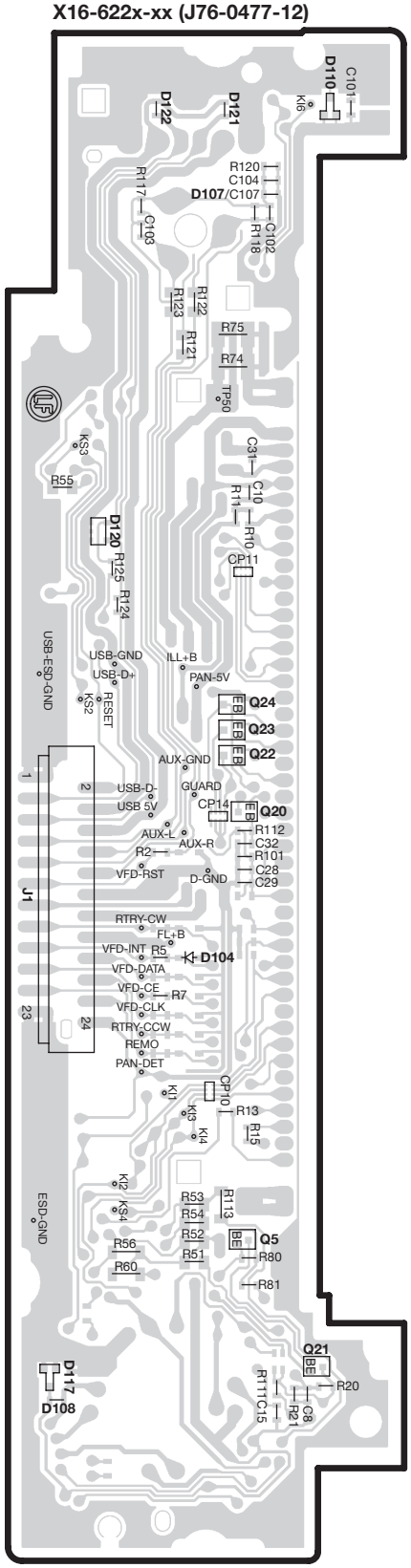


X16-622x-xx

Ref. No.	Address
IC2	6B

PC BOARD (FOIL SIDE VIEW)

SWITCH UNIT
X16-622x-xx (J76-0477-12)



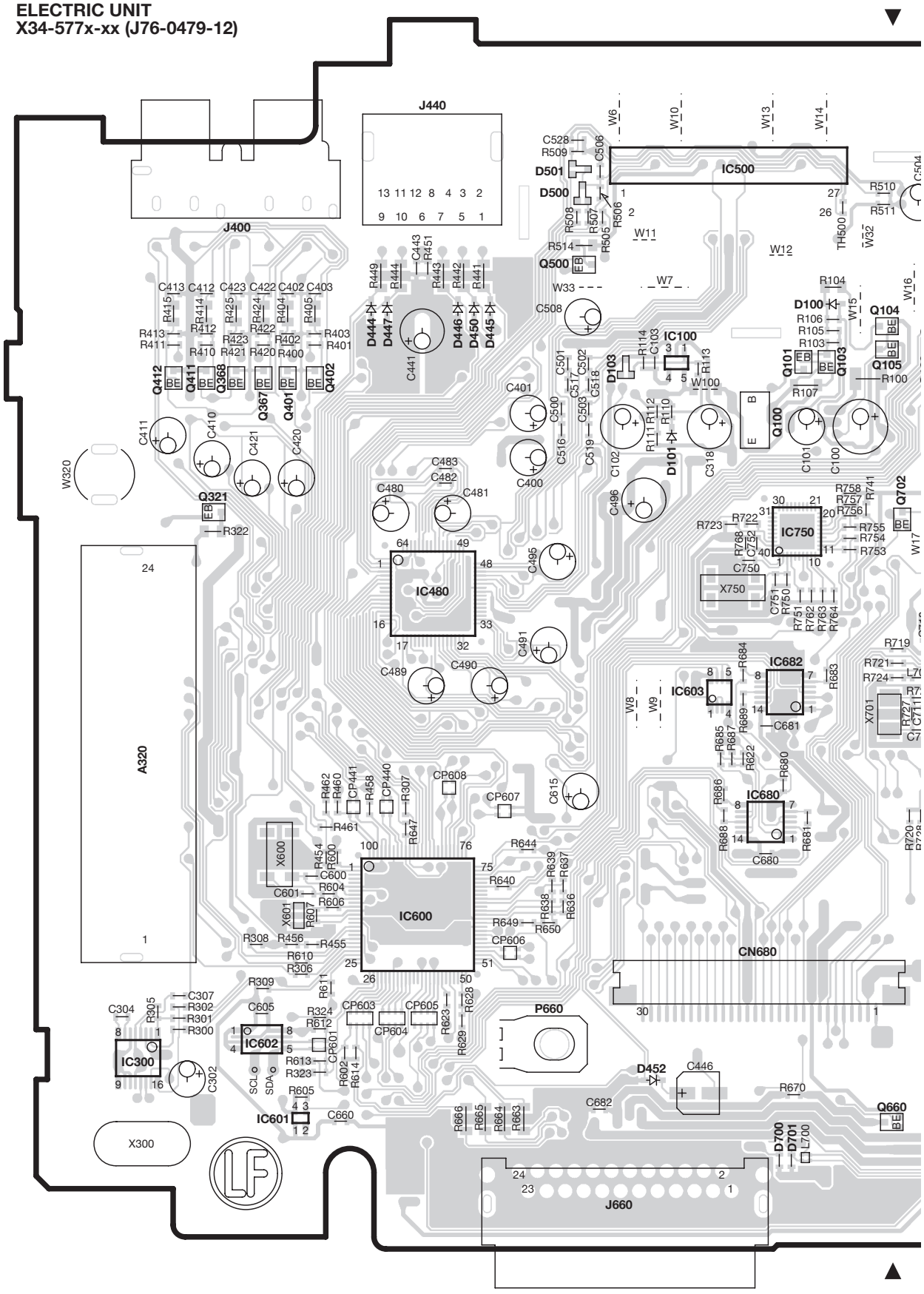
X16-622x-xx

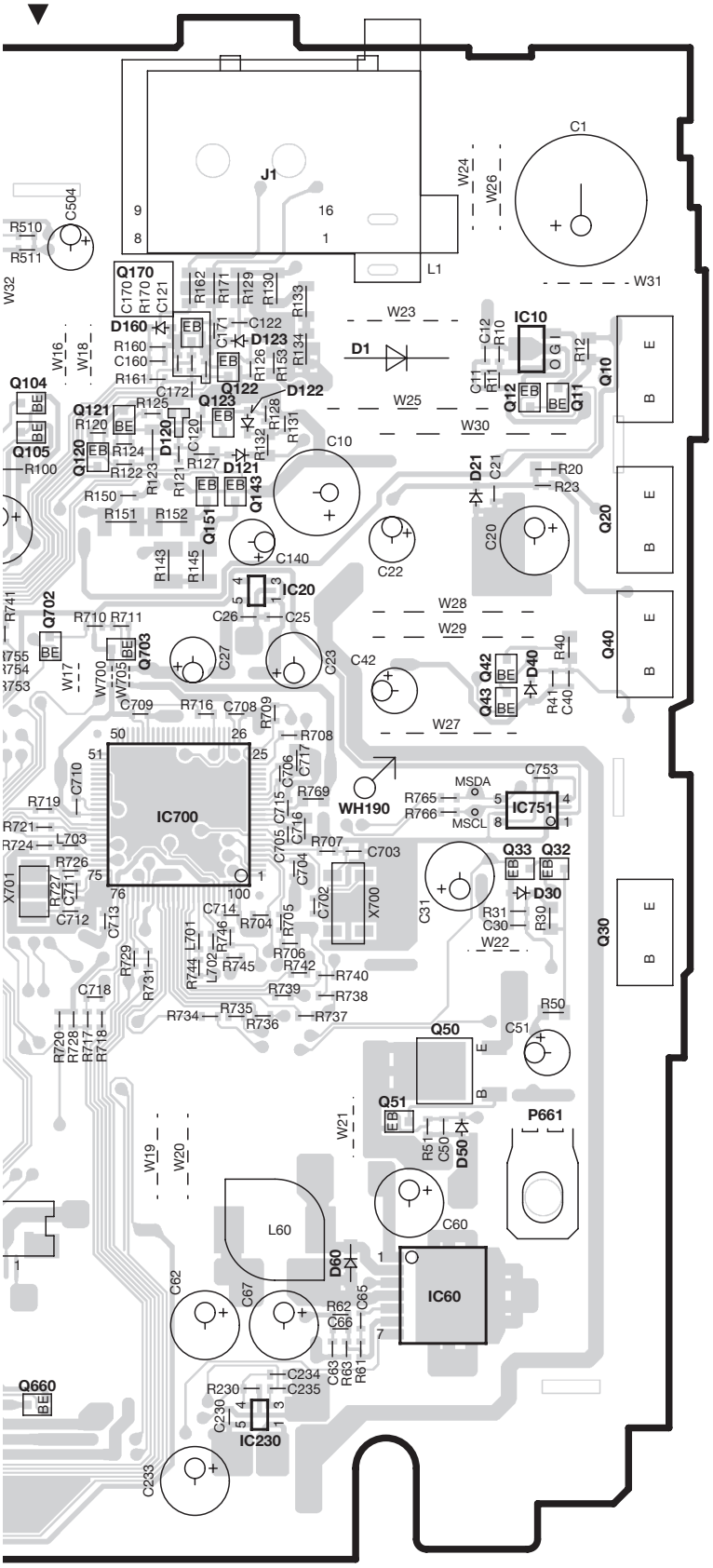
Ref. No.	Address
Q5	6D
Q20	4D
Q21	6D
Q22	4D
Q23	4D
Q24	4D

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

PC BOARD (COMPONENT SIDE VIEW)

ELECTRIC UNIT
X34-577x-xx (J76-0479-12)





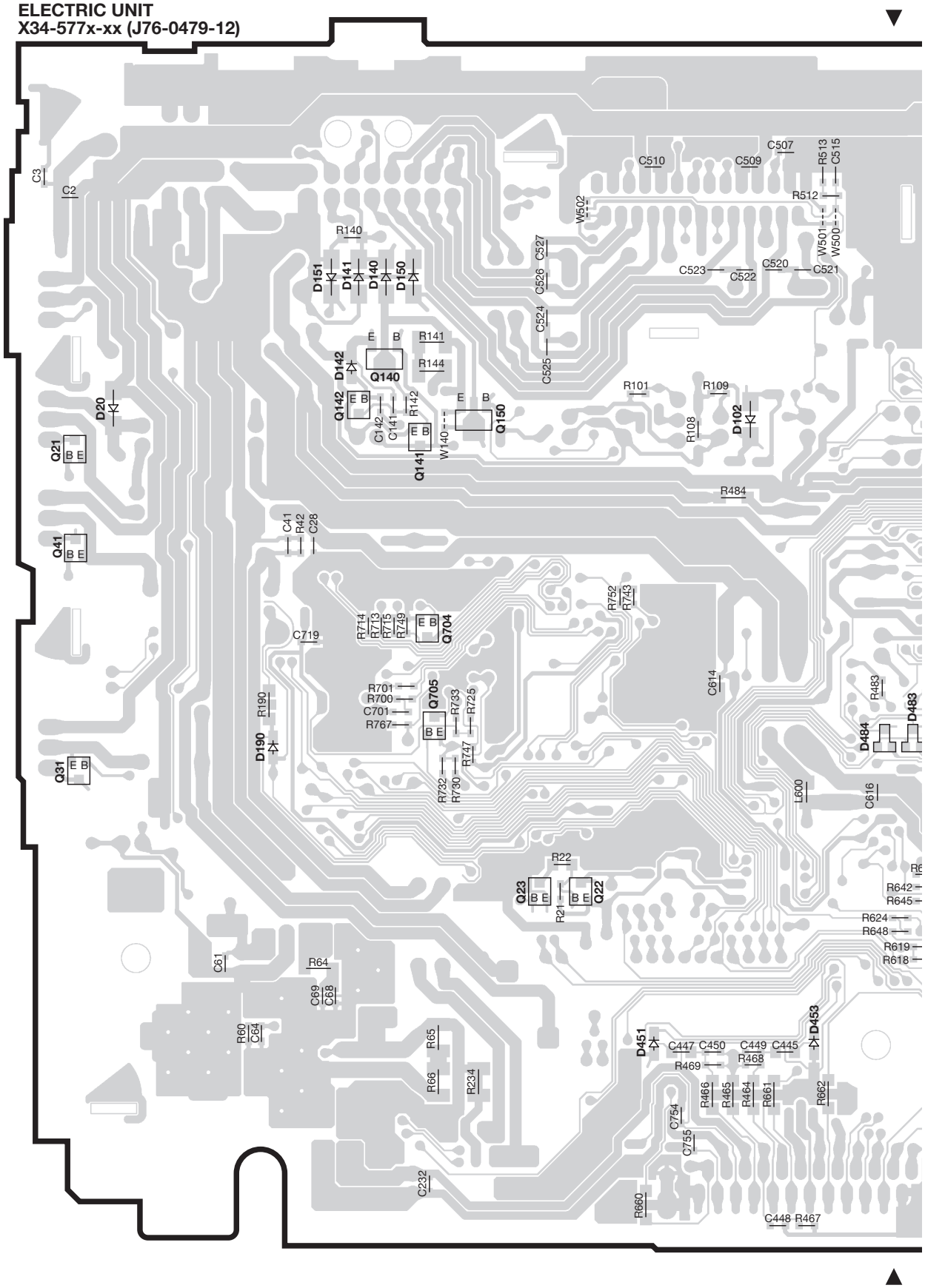
X34-577x-xx

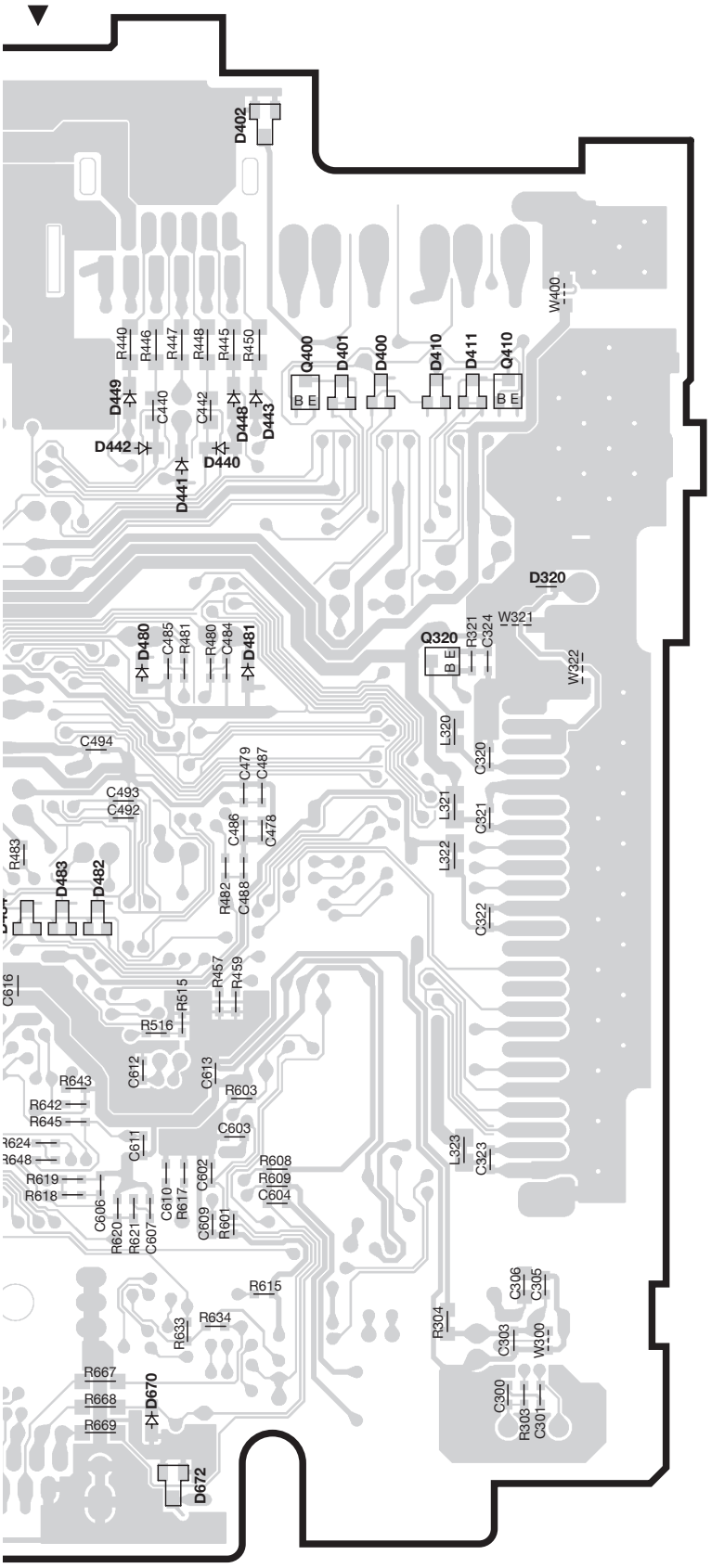
Ref. No.	Address
IC10	2L
IC20	3L
IC60	6L
IC100	3I
IC230	6K
IC300	6G
IC480	4H
IC500	2J
IC600	5H
IC601	6H
IC603	4I
IC680	5J
IC682	4J
IC700	4K
IC750	4J
Q10	3M
Q11	3M
Q12	3L
Q20	3M
Q30	5M
Q32	4M
Q33	4L
Q40	4M
Q42	4L
Q43	4L
Q50	5L
Q51	5L
Q100	3J
Q101	3J
Q103	3J
Q104	3J
Q105	3J
Q120	3K
Q122	3K
Q123	3K
Q143	3K
Q151	3K
Q170	2K
Q321	4G
Q367	3G
Q368	3G
Q401	3H
Q402	3H
Q411	3G
Q412	3G
Q500	2I
Q660	6J
Q702	3K
Q703	4K

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

PC BOARD (FOIL SIDE VIEW)

ELECTRIC UNIT
X34-577x-xx (J76-0479-12)



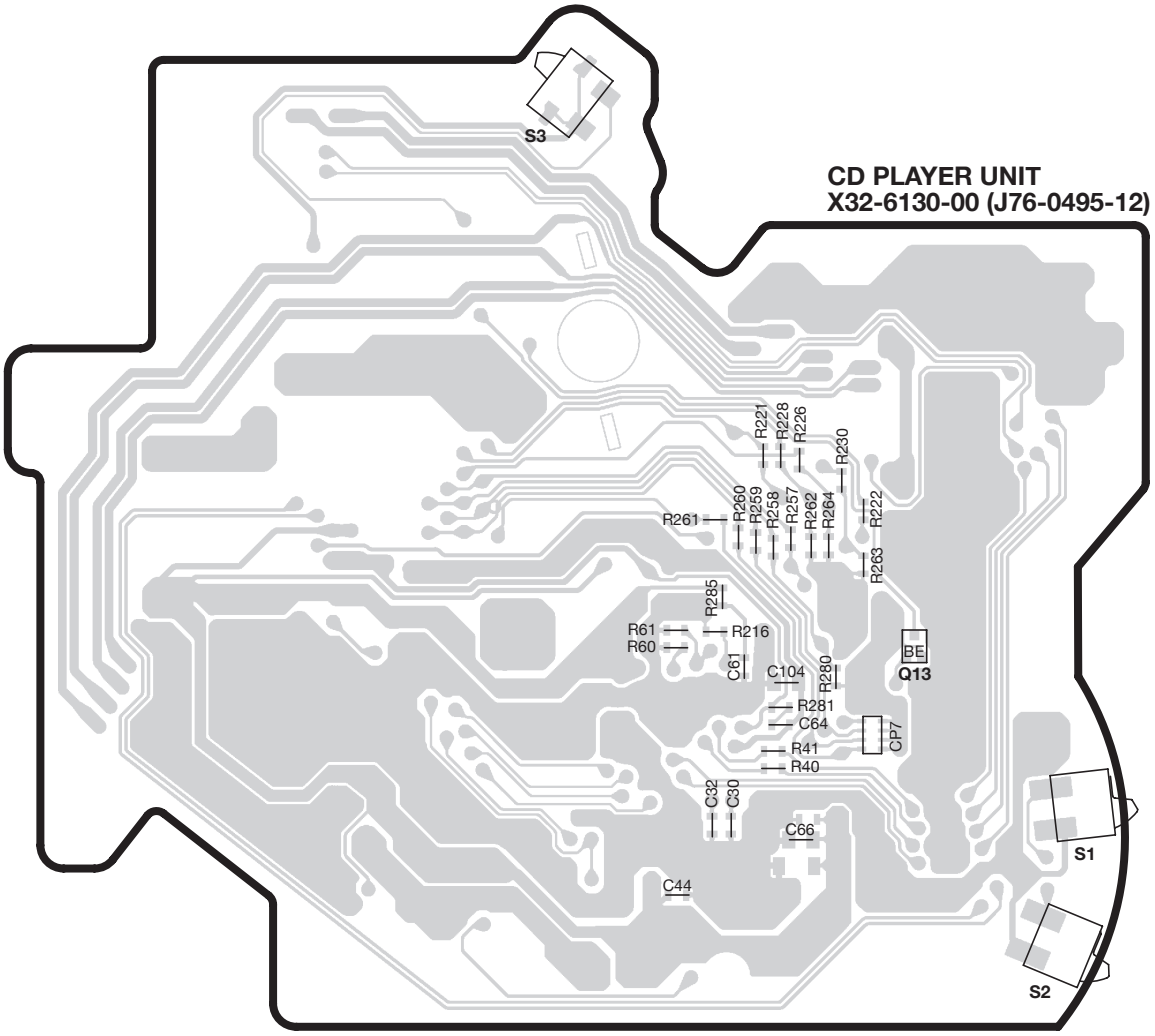


X34-577x-xx

Ref. No.	Address
Q21	3Q
Q22	5S
Q23	5S
Q31	5Q
Q41	4Q
Q140	3R
Q141	3R
Q142	3R
Q150	3S
Q320	4V
Q400	3V
Q410	3V
Q704	4R
Q705	4R

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

PC BOARD (COMPONENT SIDE VIEW)



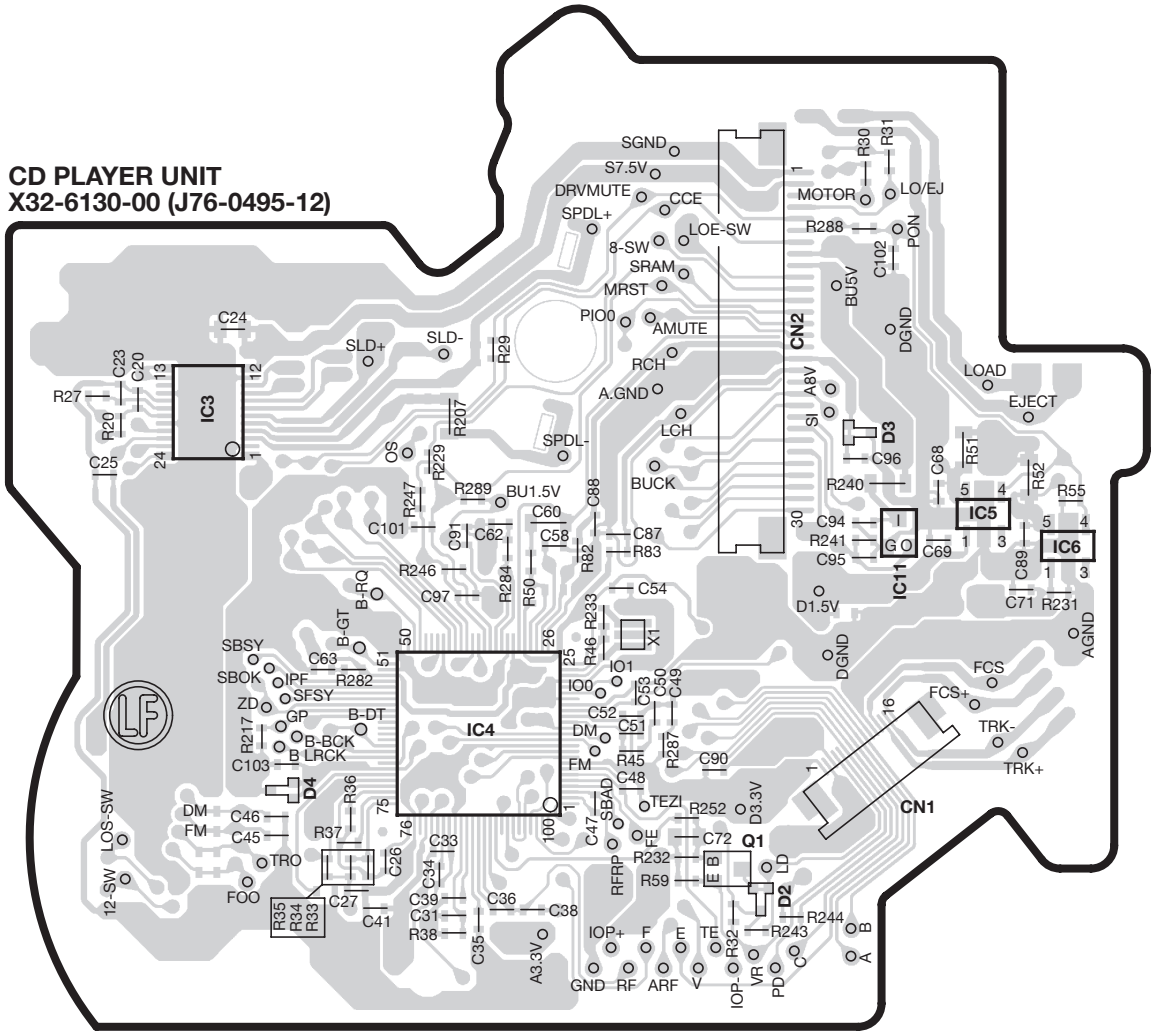
X32-6130-00

Ref. No.	Address
Q13	4AC

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

PC BOARD (FOIL SIDE VIEW)

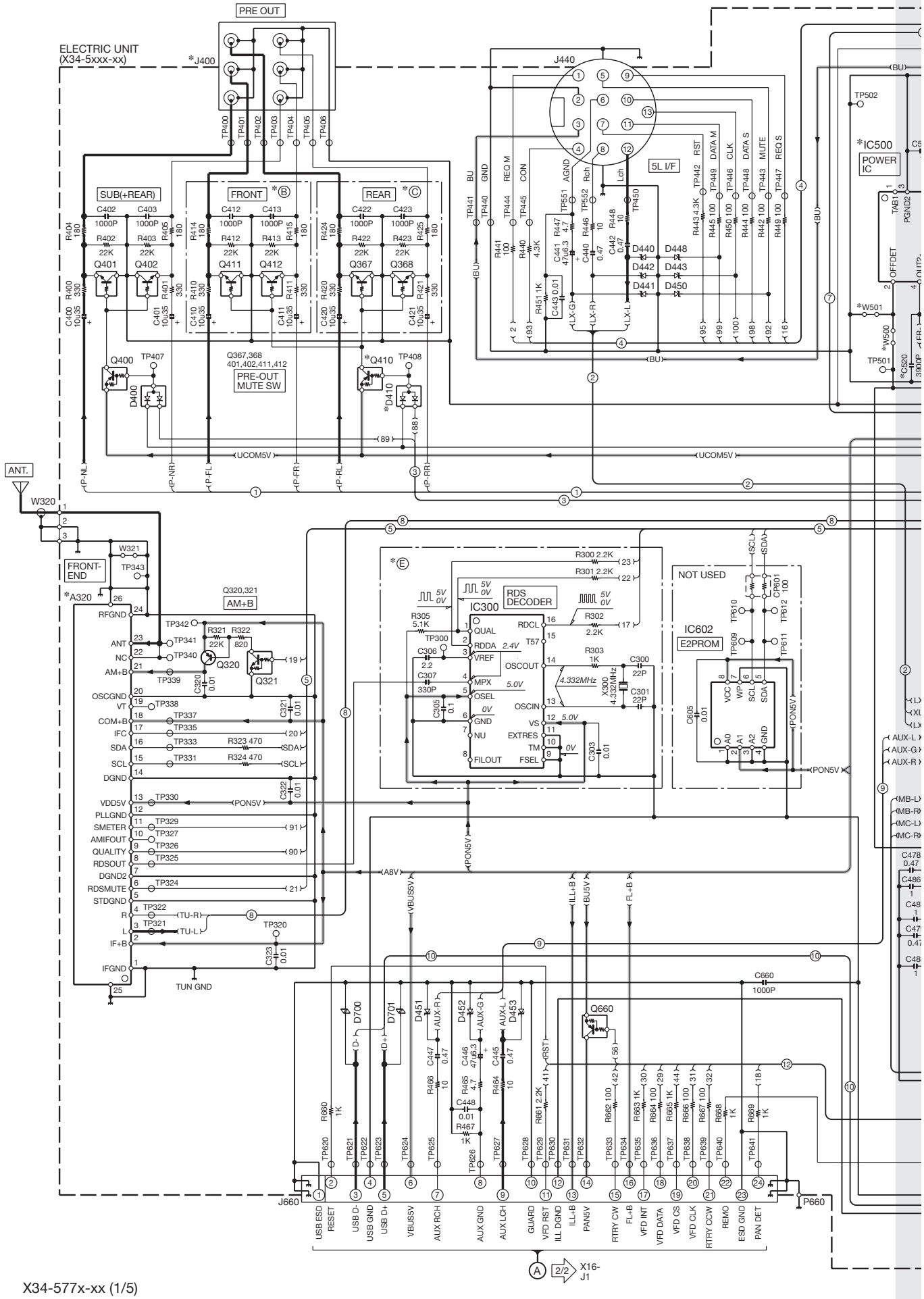
CD PLAYER UNIT
X32-6130-00 (J76-0495-12)

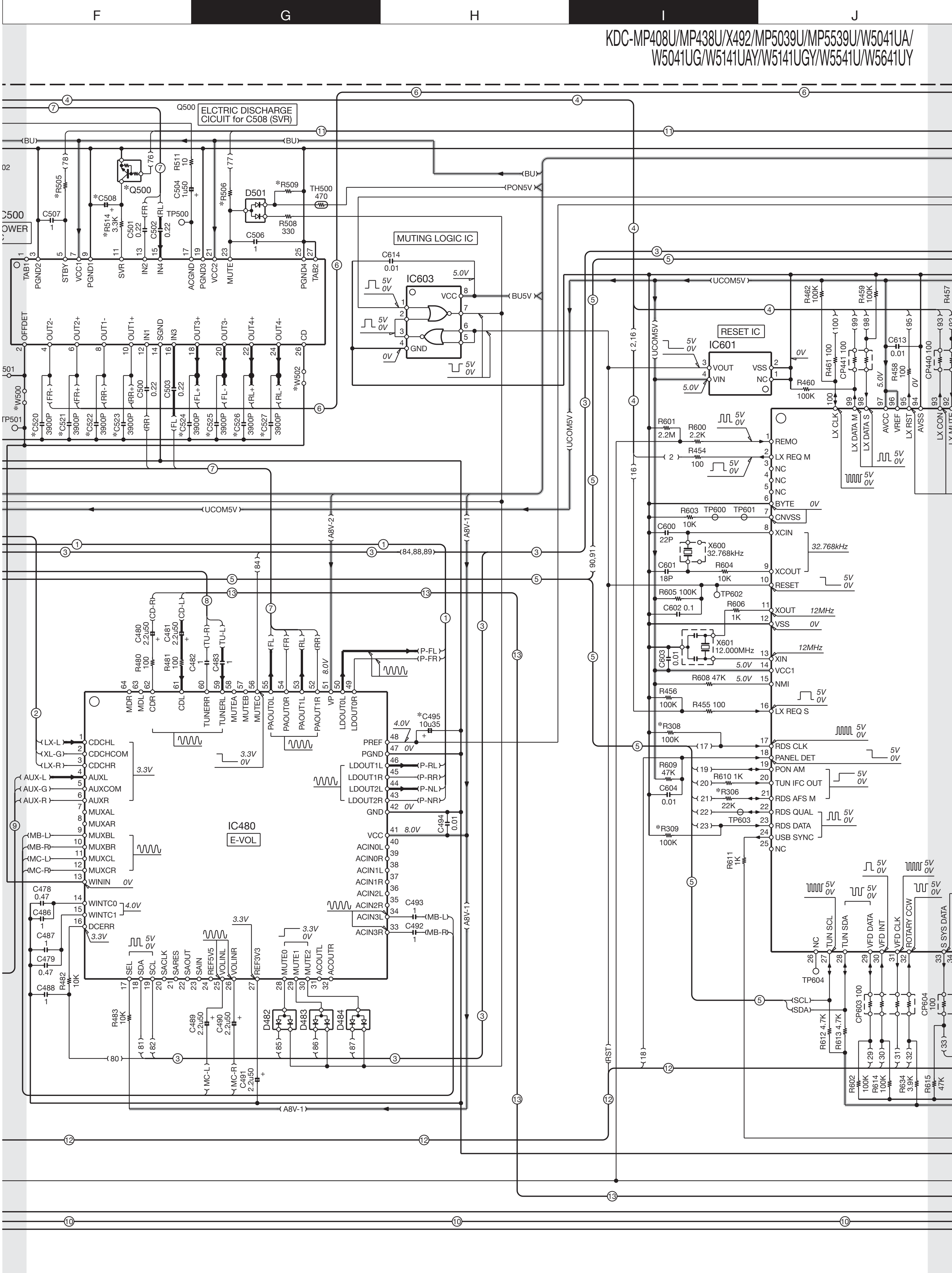


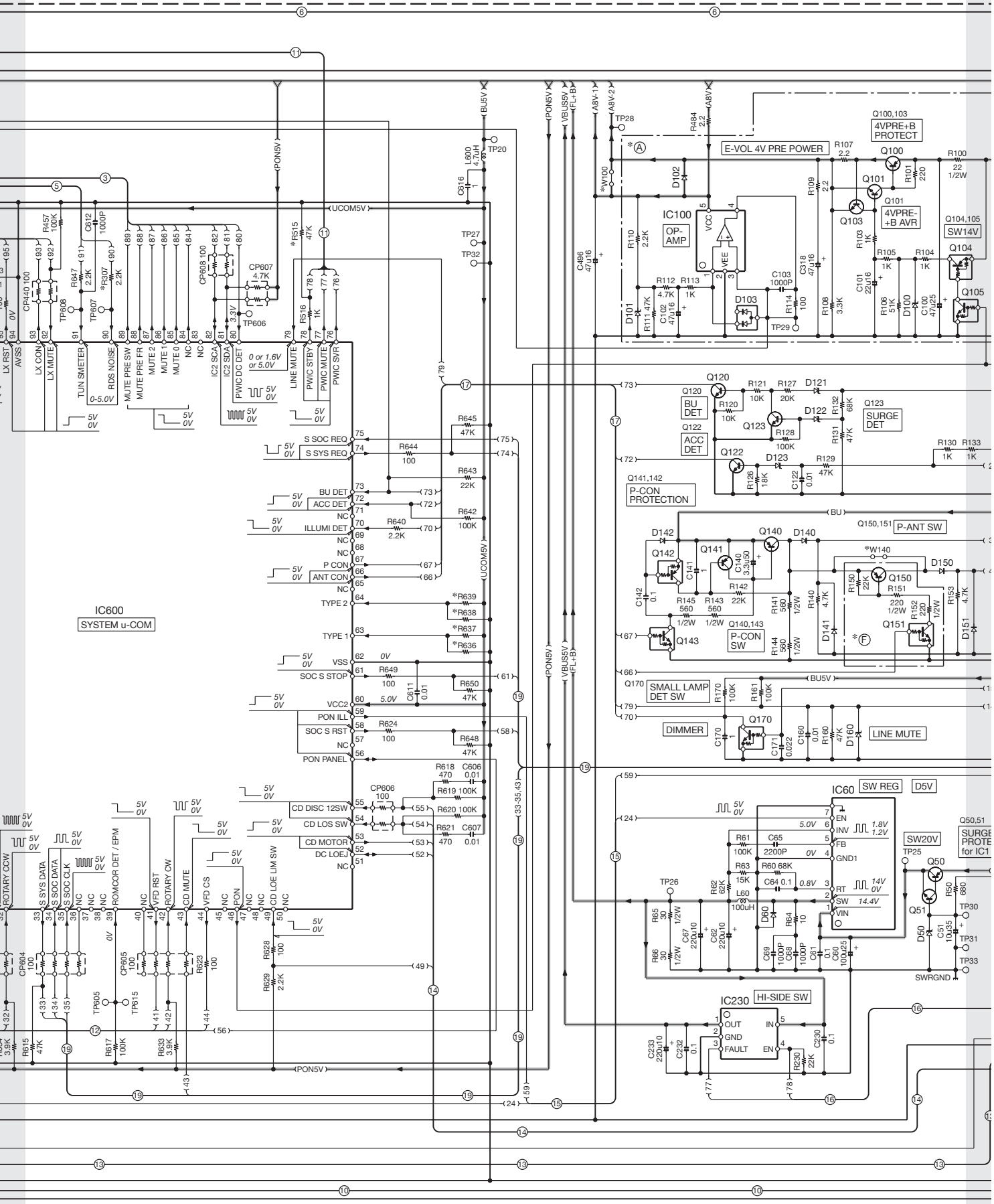
X32-6130-00

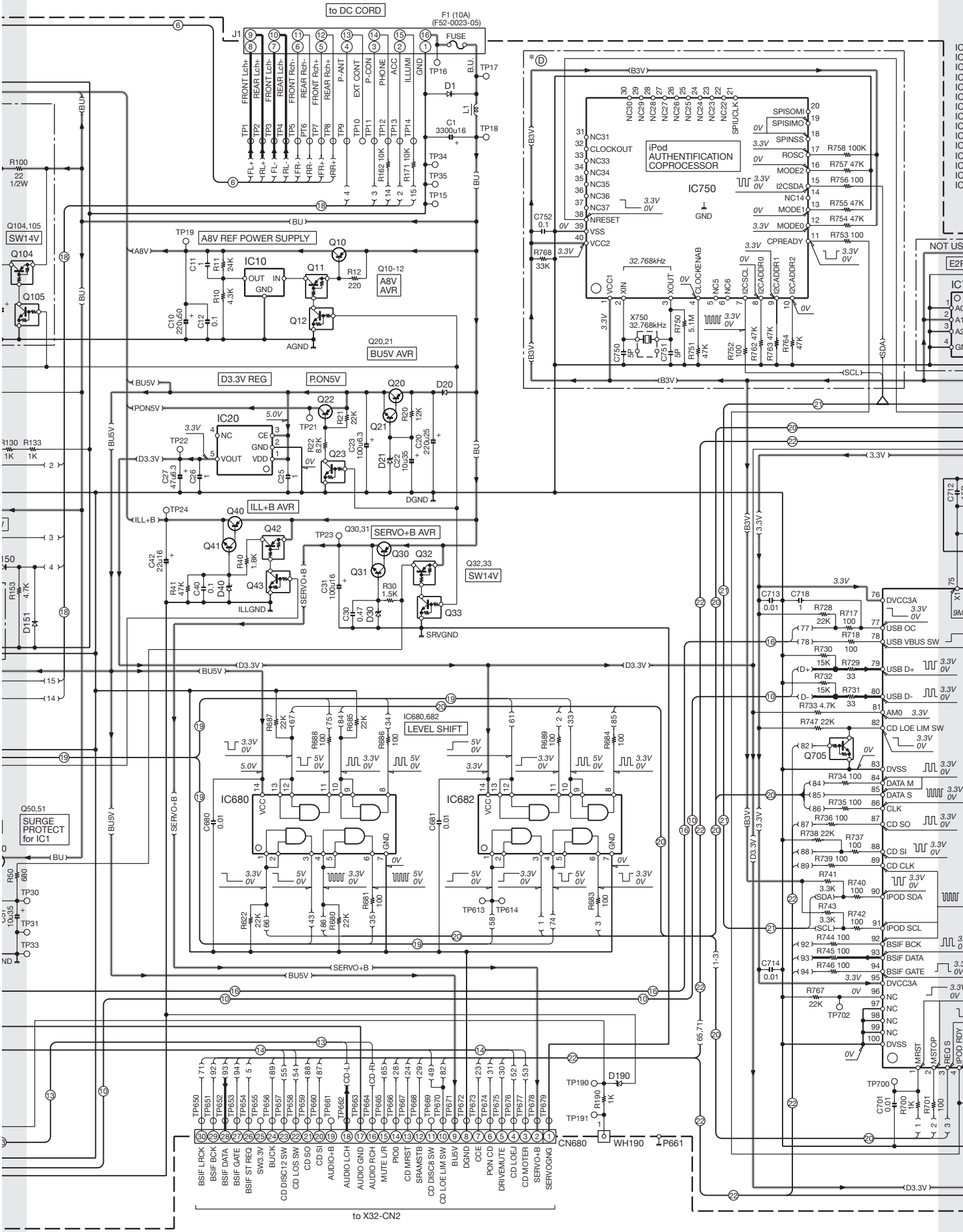
Ref. No.	Address
IC3	3AF
IC4	4AF
IC5	3AH
IC6	3AH
IC11	3AH
Q1	4AG

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


PRE OUT
ELECTRIC UNIT
(X34-5xxx-xx)
*J400
J440
5L I/F
SUB(+REAR)
FRONT
REAR
PRE-OUT
MUTE SW
Q367,368
401,402,411,412
*IC500
POWER
IC
ANT.
W320
FRONT-
END
*A320
Q320,321
AM+B
RDS
DECODER
IC300
NOT USED
IC602
E2PROM
4.332MHz
TUN GND
J660
P660
USB ESD
RESET
USB D-
USB GND
USB D+
VBUS5V
AUX RCH
AUX GND
AUX LCH
GUARD
VFD RST
ILL DGND
ILL+B
PAN5V
RTRY CW
FL+B
VFD INT
VFD DATA
VFD CS
VFD CLK
RTRY CCW
REMO
ESD GND
PAN DET
X16-
J1

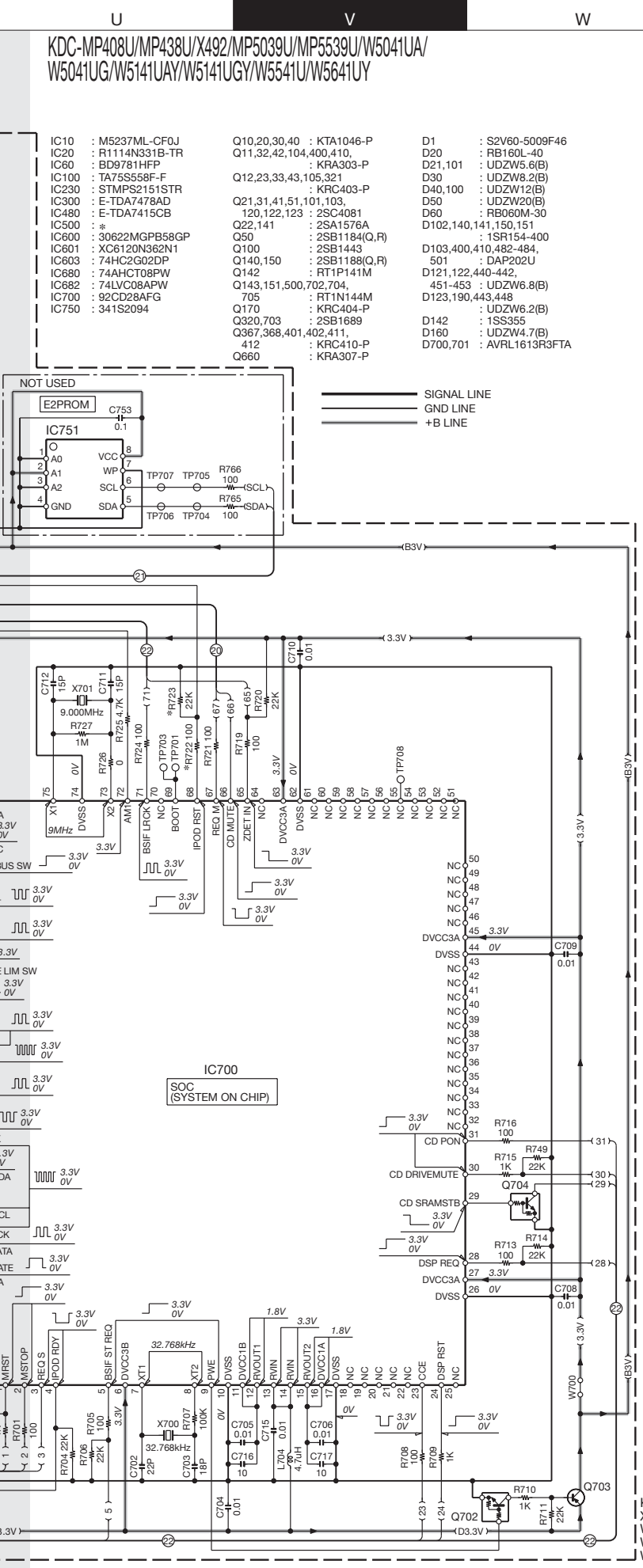

F
G
H
I
J
Q500
ELCTRIC DISCHARGE
CICUIT for C508 (SVR)
MUTING LOGIC IC
IC603
RESET IC
IC601
IC480
E-VOL
UCOM5V
BU5V
PON5V
A8V-1
A8V-2
D501
TH500
470
X600
32.768kHz
X601
12.000MHz
REMO
LX REQ M
BYTE
CNVSS
XCIN
XCOUT
RESET
XOUT
VSS
XIN
VCC1
NMI
LX REQ S
RDS CLK
PANEL DET
PON AM
TUN IFC OUT
RDS AFS M
RDS QUAL
RDS DATA
USB SYNC
CDCHL
CDCHCOM
CDCHR
AUXL
AUXCOM
AUXR
MUXAL
MUXAR
MUXBL
MUXBR
MUXCL
MUXCR
WINLN
WINTC0
WINTC1
DCERR
PREF
PGND
LDOUT1L
LDOUT1R
LDOUT2L
LDOUT2R
GND
VCC
ACIN0L
ACIN0R
ACIN1L
ACIN1R
ACIN2L
ACIN2R
ACIN3L
ACIN3R
SEL
SDA
SCL
SACLK
SARES
SAOUT
SAIN
REF5V5
VOLINL
VOLINR
REF3V3
MUTE0
MUTE1
MUTE2
ACOUTL
ACOUTR
D482
D483
D484
TP604
SCL
SDA


IC600
SYSTEM u-COM
IC100
OP-AMP
E-VOL 4V PRE POWER
4VPRE+B PROTECT
4VPRE-+B AVR
SW14V
BU DET
ACC DET
SURGE DET
P-CON PROTECTION
P-ANT SW
P-CON SW
SMALL LAMP DET SW
DIMMER
LINE MUTE
IC60
SW REG
D5V
SW20V
SURGE PROTE for IC1
IC230
HI-SIDE SW
SWRGND
TUN SMETER
RDS NOISE
MUTE PRE SW
MUTE PRE FR
MUTE 2
MUTE 1
MUTE 0
IC2 SCA
IC2 SDA
PWIC DC DET
LINE MUTE
PWIC STBY
PWIC MUTE
PWIC SVR
S SOC REQ
S SYS REQ
BU DET
ACC DET
ILLUMI DET
P CON
ANT CON
TYPE 2
TYPE 1
VSS
SOC S STOP
VCC2
PON ILL
SOC S RST
PON PANEL
CD DISC 12SW
CD LOS SW
CD MOTOR
DC LOEJ
ROTARY CCW
S SYS DATA
S SOC DATA
S SOC CLK
ROMCOR DET / EPM
VFD RST
ROTARY CW
CD MUTE
VFD CS
PON
CD LOE LIM SW
PON5V
UCOM5V
BU5V
VBUS5V (FL+B)
A8V-1
A8V-2
A8V


to DC CORD
F1 (10A)
(F52-0023-05)
FUSE
J1
FRONT Lch+
REAR Lch+
FRONT Lch-
REAR Lch-
FRONT Rch-
REAR Rch-
FRONT Rch+
REAR Rch+
P-ANT
EXT CONT
P-CON
PHONE
ACC
ILLUMI
GND
B.U.
D1
C1 3300u16
R162 10K
R171 10K
iPod AUTHENTIFICATION COPROCESSOR
IC750
32.768kHz
X750 32.768kHz
SPISOMI
SPISIMO
SPINSS
ROSC
MODE2
I2CSDA
MODE1
MODE0
CPREADY
I2CSCL
I2CADDR0
I2CADDR1
I2CADDR2
CLOCKENAB
NRESET
VSS
VCC2
VCC1
XIN
XOUT
A8V REF POWER SUPPLY
IC10
Q10
Q11
Q12
Q10-12
A8V AVR
Q104,105
SW14V
Q104
Q105
AGND
Q20,21
BU5V AVR
D3.3V REG
P.ON5V
IC20
Q20
Q21
Q22
Q23
D20
D21
DGND
ILL+B AVR
Q40
Q41
Q42
Q43
ILLGND
Q30,31
SERVO+B AVR
Q30
Q31
Q32
Q33
SRVGND
Q32,33
SW14V
LEVEL SHIFT
IC680,682
IC680
IC682
SURGE PROTECT for IC1
Q50,51
DVCC3A
USB OC
USB VBUS SW
USB D+
USB D-
AM0
CD LOE LIM SW
Q705
DVSS
DATA M
DATA S
CLK
CD SO
CD SI
CD CLK
IPOD SDA
IPOD SCL
BSIF BCK
BSIF DATA
BSIF GATE
DVCC3A
NC
DVSS
MRST
MSTOP
REQ S
IPOD RDY
D190
WH190
P661
CN680
to X32-CN2
BSIF LRCK
BSIF BCK
BSIF DATA
BSIF GATE
BSIF ST REQ
SW3.3V
BUCK
CD DISC12 SW
CD LOS SW
CD SO
CD SI
AUDIO+B
AUDIO LCH
AUDIO GND
AUDIO RCH
MUTE L/R
PIO0
CD MRST
SRAMSTB
CD DISC8 SW
CD LOE LIM SW
BU5V
DGND
CCE
PON CD
DRIVEMUTE
CD LOEJ
CD MOTER
SERVO+B
SERVOGNG

IC10	: M5237ML-CF0J	Q10,20,30,40	: KTA1046-P	D1	: S2V60-5009F46
IC20	: R1114N331B-TR	Q11,32,42,104,400,410,	: KRA303-P	D20	: RB160L-40
IC60	: BD9781HFP			D21,101	: UDZW5.6(B)
IC100	: TA75S558F-F	Q12,23,33,43,105,321	: KRC403-P	D30	: UDZW8.2(B)
IC230	: STMPS2151STR			D40,100	: UDZW12(B)
IC300	: E-TDA7478AD	Q21,31,41,51,101,103,		D50	: UDZW20(B)
IC480	: E-TDA7415CB	120,122,123	: 2SC4081	D60	: RB060M-30
IC500	: *	Q22,141	: 2SA1576A	D102,140,141,150,151	
IC600	: 30622MGPB58GP	Q50	: 2SB1184(Q,R)		: 1SR154-400
IC601	: XC6120N362N1	Q100	: 2SB1443	D103,400,410,482-484,	
IC603	: 74HC2G02DP	Q140,150	: 2SB1188(Q,R)	501	: DAP202U
IC680	: 74AHCT08PW	Q142	: RT1P141M	D121,122,440-442,	
IC682	: 74LVC08APW	Q143,151,500,702,704,		451-453	: UDZW6.8(B)
IC700	: 92CD28AFG	705	: RT1N144M	D123,190,443,448	
IC750	: 341S2094	Q170	: KRC404-P		: UDZW6.2(B)
		Q320,703	: 2SB1689	D142	: 1SS355
		Q367,368,401,402,411,		D160	: UDZW4.7(B)
		412	: KRC410-P	D700,701	: AVRL1613R3FTA
		Q660	: KRA307-P		

SIGNAL LINE
GND LINE
+B LINE

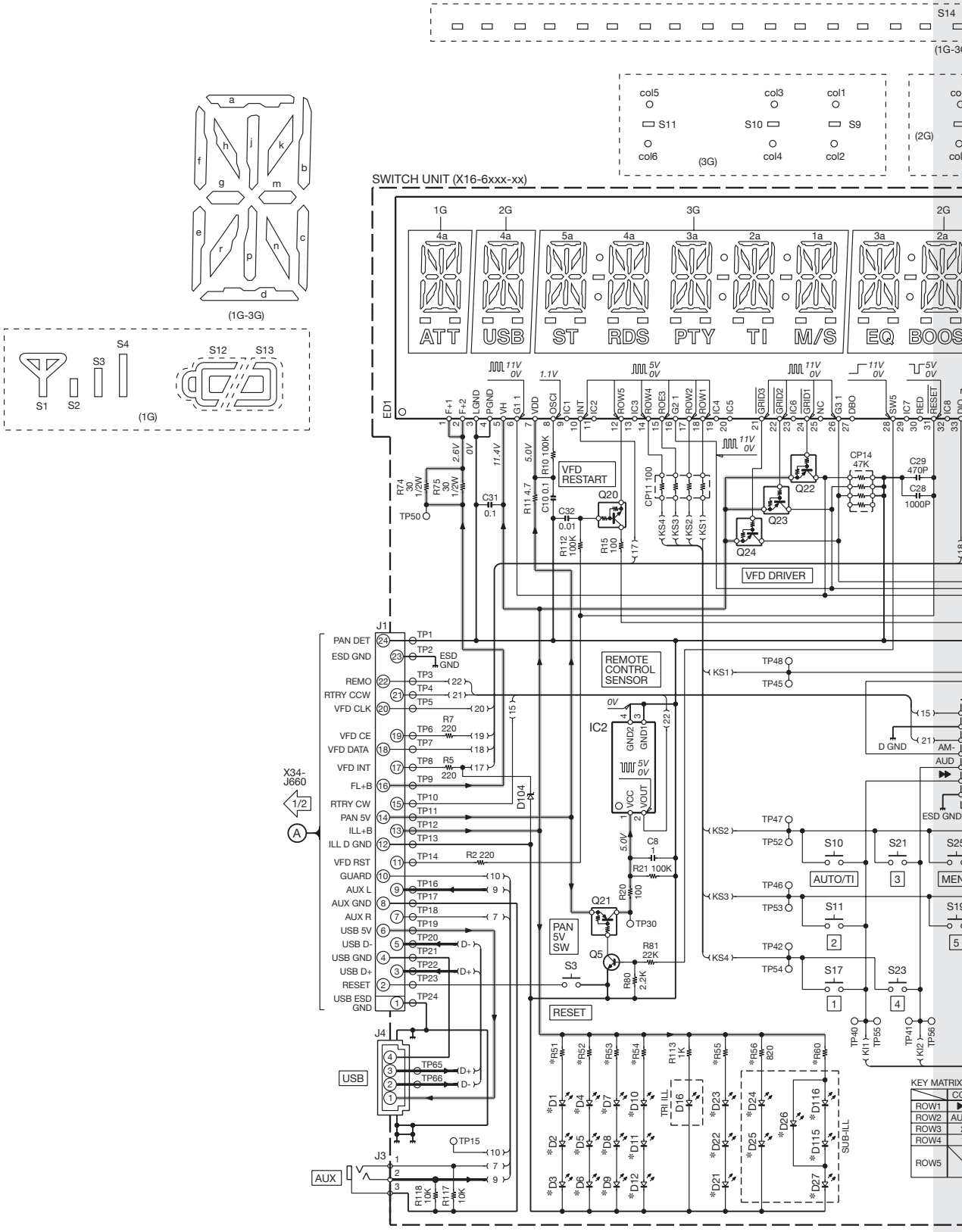


MODEL NAME	DESTINATION	UNIT No.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	Ⓕ	A320	C495	C508	C520-C527	D410	J400	IC500	Q410	Q500	R306-309	R505	R506	R509	R514, 515	R636	R637	R638	R639	R722, 723	W100	W140	W500	W501, 502
U535	J	X34-5770-01	—	—	—	YES	—	YES	X86-4160-01	YES	10u35	—	—	1-PRE	KKZ11Z	—	—	—	47K	47K	15K	—	47K	—	47K	—	—	YES	—	—	YES
KDC-MP408U	K3	X34-5770-12	—	—	—	—	—	YES	X86-4160-11	YES	33u10	—	—	1-PRE	KKZ12Z	—	YES	—	33K	22K	13K	YES	47K	47K	47K	47K	—	YES	—	YES	—
KDC-MP438U	K2	X34-5770-11	—	YES	YES	YES	—	YES	X86-4160-11	YES	10u35	—	YES	3-PRE	KKZ11Z	YES	—	—	47K	47K	15K	—	22K	47K	47K	—	YES	—	—	—	YES
KDC-X492	K1	X34-5770-10	YES	YES	YES	YES	—	YES	X86-4160-11	—	10u35	—	YES	3-PRE	KKZ11Z	YES	—	—	47K	47K	15K	—	47K	—	47K	—	YES	—	—	—	YES
KDC-MP5039U	M2	X34-5770-22	—	YES	—	—	—	YES	X86-4160-11	—	33u10	—	YES	2-PRE	KKZ12Z	YES	YES	—	33K	22K	13K	YES	47K	47K	22K	47K	—	YES	—	YES	—
KDC-MP5539U	M1	X34-5770-21	—	—	—	—	—	YES	X86-4160-11	YES	33u10	—	YES	2-PRE	KKZ12Z	YES	YES	—	33K	22K	13K	YES	47K	—	22K	47K	—	YES	—	YES	—
KDC-W5041UA/UG	E2/E3	X34-5772-73	—	—	—	—	—	—	X86-4042-70	YES	33u10	YES	—	1-PRE	KKZ12Z	—	YES	YES	33K	22K	13K	YES	22K	47K	47K	22K	—	YES	—	YES	—
KDC-W5141UAY/UGY	E5/E6	X34-5772-74	—	—	—	—	YES	—	X86-4042-70	YES	33u10	YES	—	1-PRE	KKZ12Z	—	YES	YES	33K	22K	13K	YES	22K	47K	47K	22K	—	YES	—	YES	—
KDC-W5541U	E1	X34-5772-71	—	—	—	YES	YES	—	X86-4042-70	YES	33u10	YES	—	1-PRE	KKZ12Z	—	YES	YES	33K	22K	13K	YES	47K	—	47K	47K	YES	YES	YES	YES	—
KDC-W5641UY	E4	X34-5772-72	—	—	—	YES	YES	—	X86-4042-70	YES	33u10	YES	—	1-PRE	KKZ12Z	—	YES	YES	33K	22K	13K	YES	47K	—	47K	22K	YES	YES	YES	YES	—
CKDCMP7090U	VISTEON	X34-6160-10	—	YES	—	—	—	YES	X86-4160-12	YES	33u10	—	YES	2-PRE	KKZ12Z	YES	YES	—	33K	22K	13K	YES	47K	—	47K	—	—	YES	—	YES	—
SKDCMP4008U	TOYOTA	X34-5770-13	—	—	—	YES	—	YES	X86-4160-11	YES	33u10	—	—	1-PRE	KKZ12Z	—	YES	—	33K	22K	13K	YES	—	47K	47K	—	YES	YES	—	YES	—

KDC-MP408U/MP438U/
X492/MP5039U/MP5539U/
W5041UA/W5041UG/
W5141UAY/W5141UGY/
W5541U/W5641UY (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.

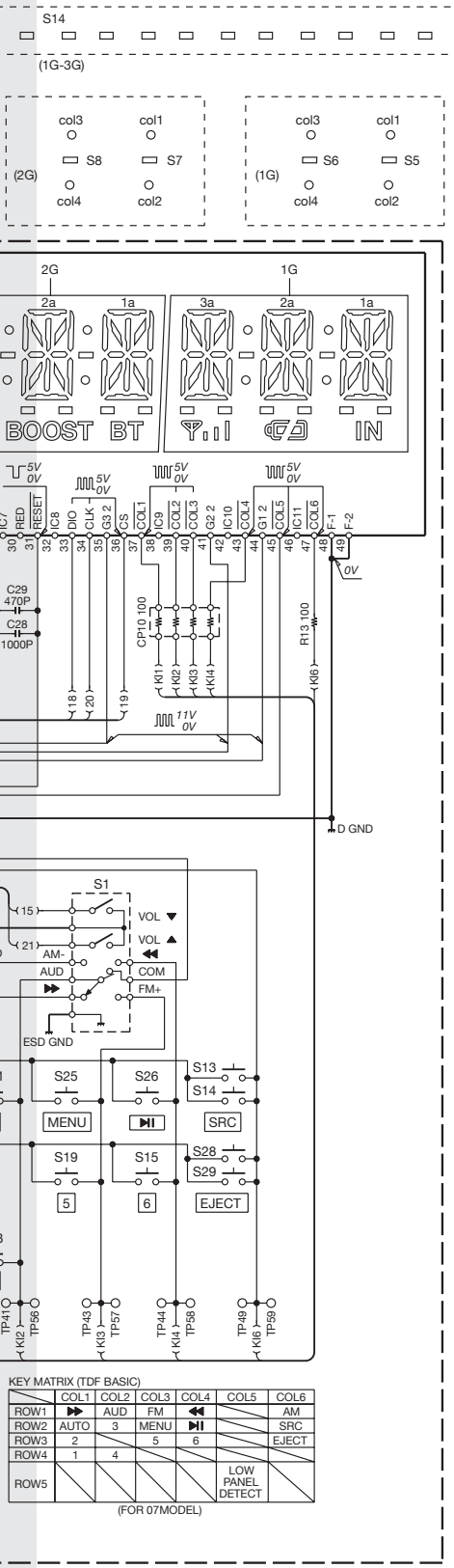
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.



SWITCH UNIT (X16-6xxx-xx)

MODEL NAME	DESTI-NATION	UNIT No.	D1-12	D21-23	D24-26	D27	D115,116	R51-54	R55	R56	R60
U535	J	X16-6220-01	B30-1782-05	B30-1781-05	—	B30-1781-05	B30-1781-05	560	270	—	270
KDC-MP408U	K3	X16-6220-11	B30-1779-05	B30-1781-05	—	B30-1781-05	B30-1781-05	620	270	—	270
KDC-MP438U	K2										
KDC-X492	K1	X16-6220-10	B30-1781-05	B30-1781-05	—	B30-1781-05	B30-1781-05	270	270	—	270
KDC-MP5039U	M2	X16-6220-10	B30-1781-05	B30-1781-05	—	B30-1781-05	B30-1781-05	270	270	—	270
KDC-MP5539U	M1										
KDC-W5041UA	E2	X16-6222-71	B30-1779-05	B30-1779-05	—	B30-1779-05	B30-1779-05	620	620	—	620
KDC-W5041UG	E3	X16-6222-72	B30-1780-05	B30-1780-05	YES	B30-1780-05	—	560	560	YES	820
KDC-W5141UAY	E5	X16-6222-71	B30-1779-05	B30-1779-05	—	B30-1779-05	B30-1779-05	620	620	—	620
KDC-W5141UGY	E6	X16-6222-72	B30-1780-05	B30-1780-05	YES	B30-1780-05	—	560	560	YES	820
KDC-W5541U	E1	X16-6220-10	B30-1781-05	B30-1781-05	—	B30-1781-05	B30-1781-05	270	270	—	270
KDC-W5641UY	E4										
CKDCMP7090U	VISTEON	X16-6420-10	B30-1779-05	B30-1781-05	—	B30-1781-05	B30-1781-05	620	270	—	270
SKDCMP4008U	TOYOTA	X16-6222-72	B30-1780-05	B30-1780-05	YES	B30-1780-05	—	560	560	YES	820

KDC-MP408U/MP438U/X492/MP5039U/MP5539U/W5041UA/ W5041UG/W5141UAY/W5141UGY/W5541U/W5641UY



KEY MATRIX (TDF BASIC)

	COL1	COL2	COL3	COL4	COL5	COL6
ROW1	▶▶	AUD	FM	◀◀		AM
ROW2	AUTO	3	MENU	▶II		SRC
ROW3	2		5	6		EJECT
ROW4	1	4				
ROW5					LOW PANEL DETECT	

(FOR 07MODEL)

KDC-MP408U/MP438U/ X492/MP5039U/MP5539U/ W5041UA/W5041UG/ W5141UAY/W5141UGY/ W5541U/W5641UY (2/2)

IC2 : PIC95603

Q5 : 2SC4617
Q20 : RT1N441U
Q21 : RT1P141U
Q22-24 : DTA123JUA

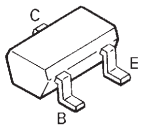
D1-12 : *
D16 : B30-1779-05
D21-23 : *
D24-26 : B30-1780-05
D27 : *
D104 : UDZW5.6(B)
D115,116 : *

SIGNAL LINE
GND LINE
+B LINE

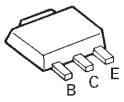
	1G	2G	3G
P1	3a	3a	3a
P2	2a	2a	2a
P3	1a	1a	1a
P4	3h	3h	3h
P5	2h	2h	2h
P6	1h	1h	1h
P7	3j	3j	3j
P8	2j	2j	2j
P9	1j	1j	1j
P10	3k	3k	3k
P11	2k	2k	2k
P12	1k	1k	1k
P13	col3	col3	col3
P14	col1	col1	col1
P15	3b	3b	3b
P16	2b	2b	2b
P17	1b	1b	1b
P18	3f	3f	3f
P19	2f	2f	2f
P20	1f	1f	1f
P21	3m	3m	3m
P22	2m	2m	2m
P23	1m	1m	1m
P24	S6	S8	S10
P25	S5	S7	S9
P26	3g	3g	3g
P27	2g	2g	2g
P28	1g	1g	1g
P29	3c	3c	3c
P30	2c	2c	2c
P31	1c	1c	1c
P32	3e	3e	3e
P33	2e	2e	2e
P34	1e	1e	1e
P35	3r	3r	3r
P36	2r	2r	2r
P37	1r	1r	1r
P38	col4	col4	col4
P39	col2	col2	col2
P40	3p	3p	3p
P41	2p	2p	2p
P42	1p	1p	1p
P43	3n	3n	3n
P44	2n	2n	2n
P45	1n	1n	1n
P46	3d	3d	3d
P47	2d	2d	2d
P48	1d	1d	1d
P49	S1	EQ	ST
P50	S2	BOOST	RDS
P51	S3	BT	PTY
P52	S4	USB	TI
P53	S12	—	M/S
P54	S13	—	col5,6
P55	IN	—	S11
P56	ATT	4d	4d
P57	4d	—	5d
P58	4n	4n	4n
P59	—	—	5n
P60	4p	4p	4p
P61	—	—	5p
P62	4r	4r	4r
P63	—	—	5r
P64	4e	4e	4e
P65	—	—	5e
P66	4c	4c	4c
P67	—	—	5c
P68	4g	4g	4g
P69	—	—	5g
P70	4m	4m	4m
P71	—	—	5m
P72	4f	4f	4f
P73	—	—	5f
P74	4b	4b	4b
P75	—	—	5b
P76	4k	4k	4k
P77	—	—	5k
P78	4j	4j	4j
P79	—	—	5j
P80	4h	4h	4h
P81	—	—	5h
P82	4a	4a	4a
P83	—	—	5a
P84	S14	S14	S14

DTC114YUA
2SA1576A
2SC4617

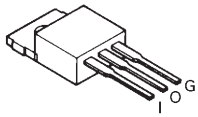
2SC4081



2SB1188



KTA1046-P



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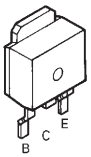
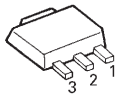
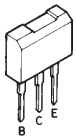


DAP202U
DA204U

M5237ML-CF0J



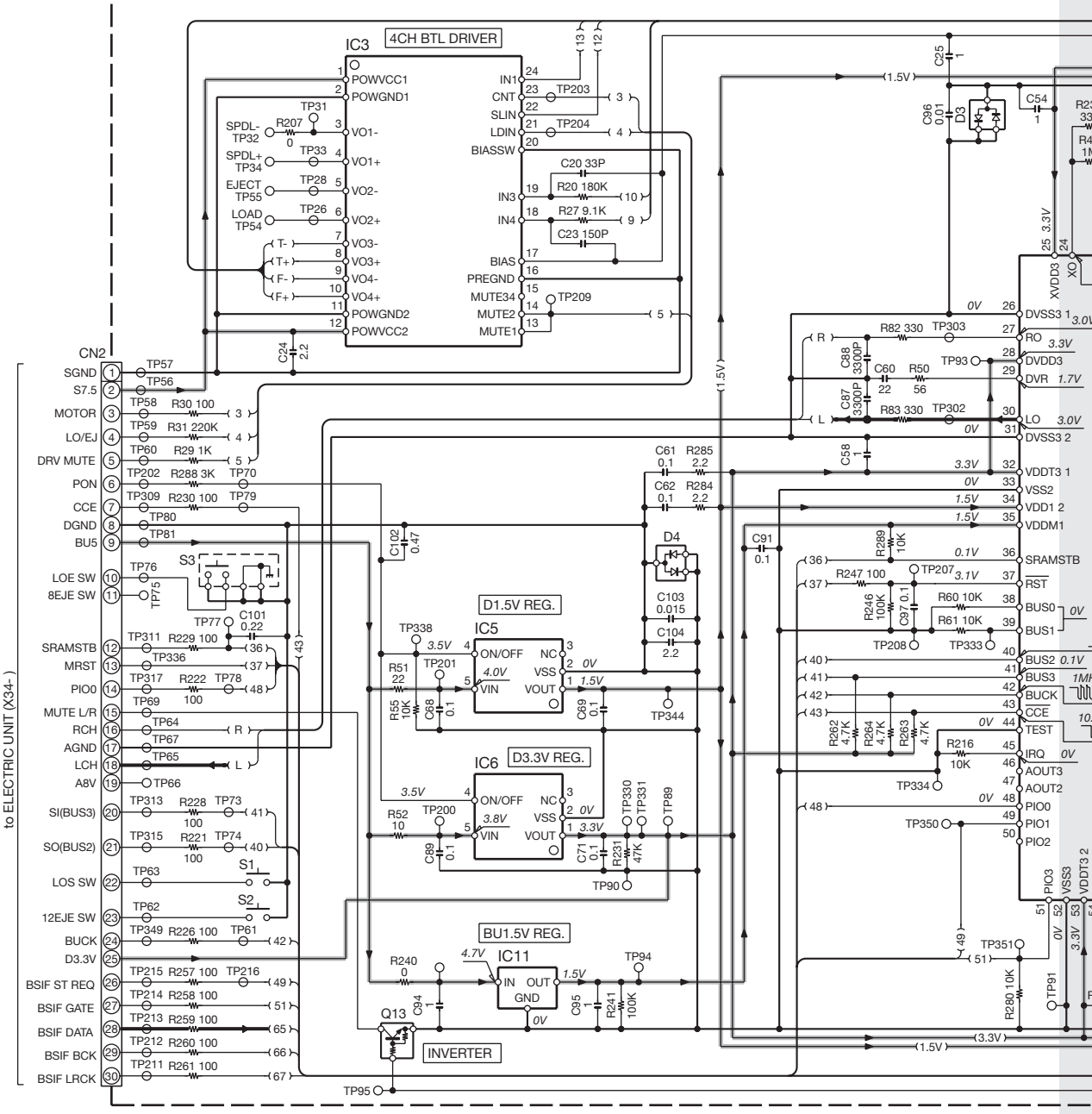
2SB1443

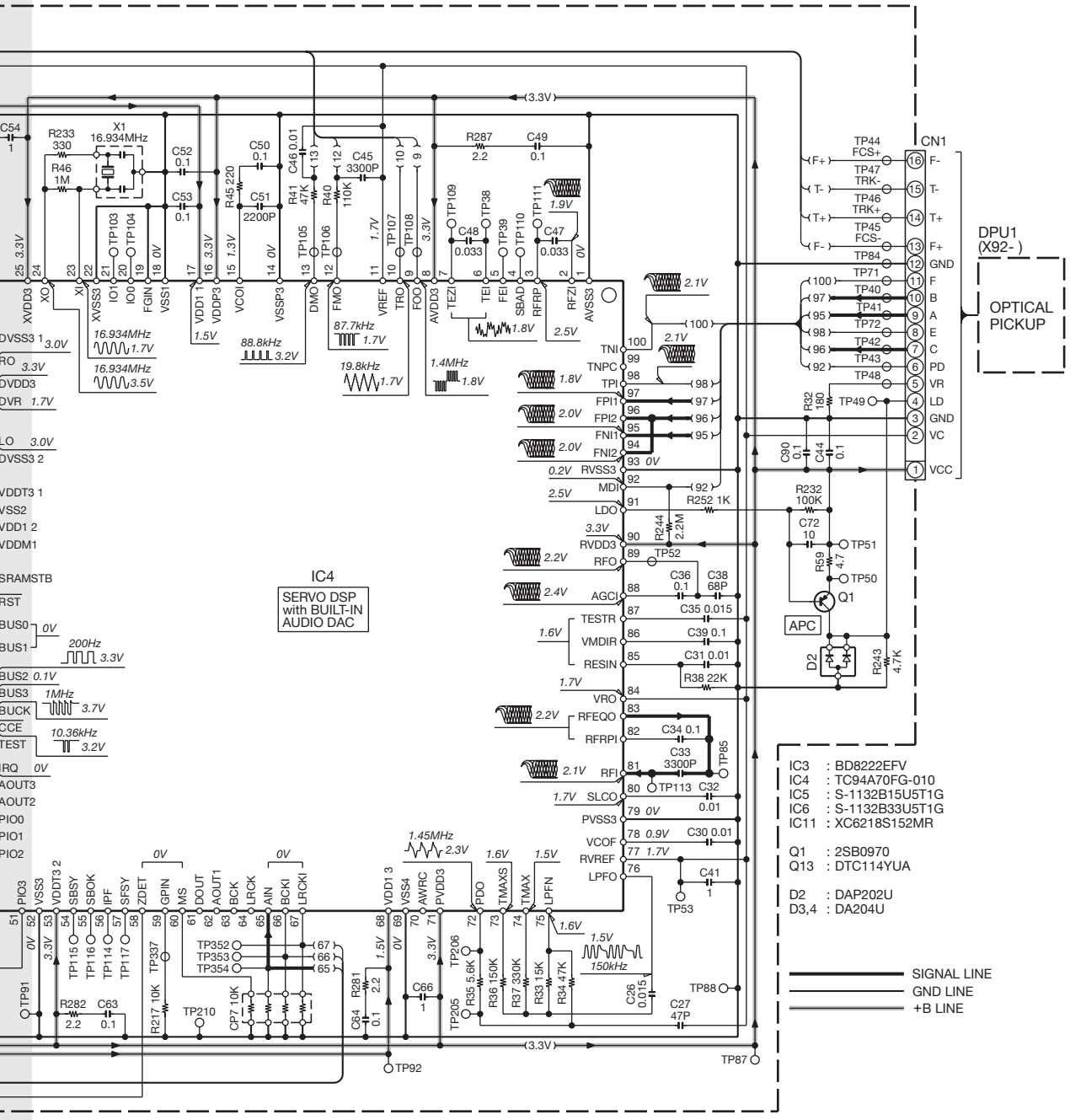


CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
⚠Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably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

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

CD PLAYER UNIT (X32-6130-00)

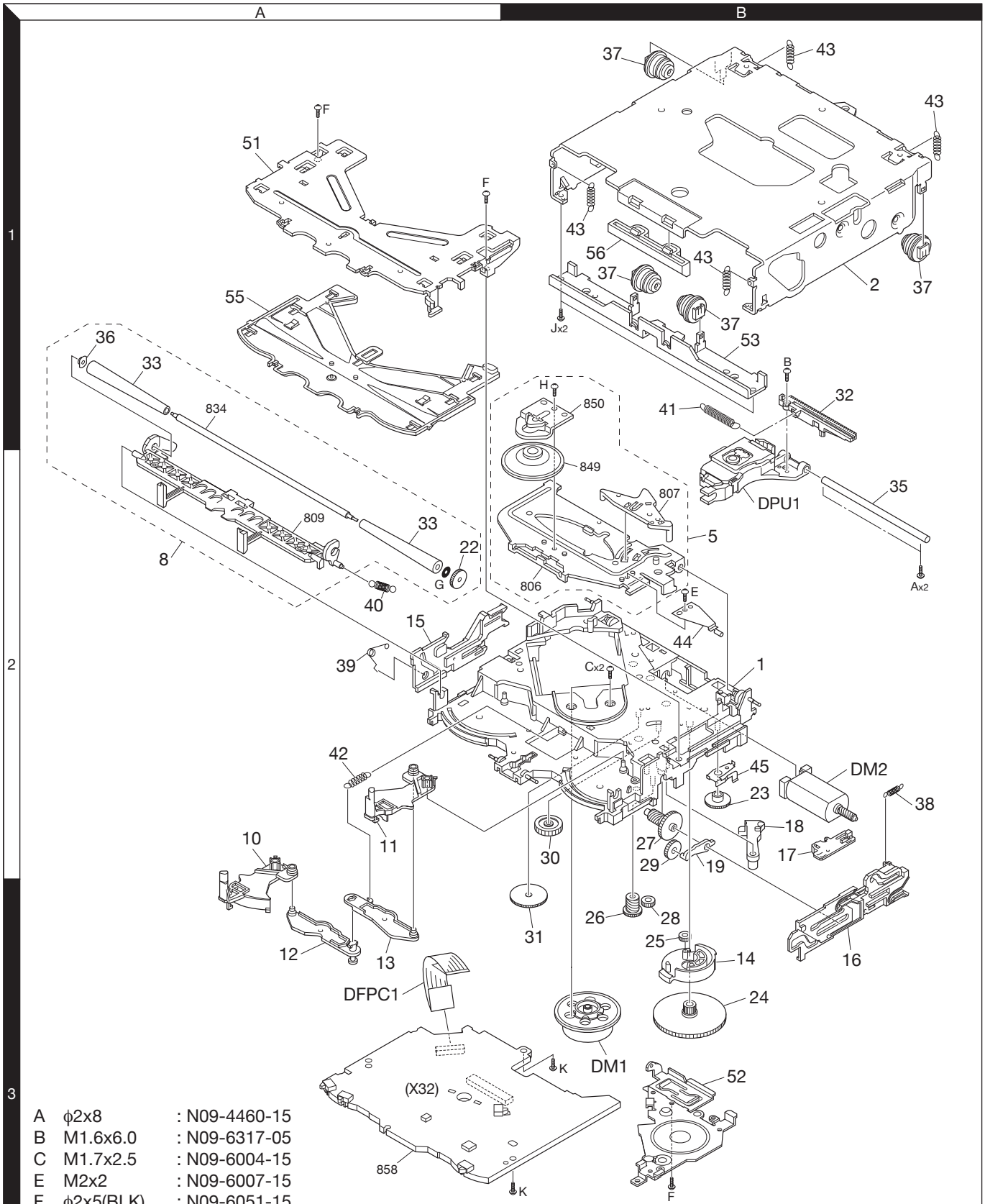




CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
⚠Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably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

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

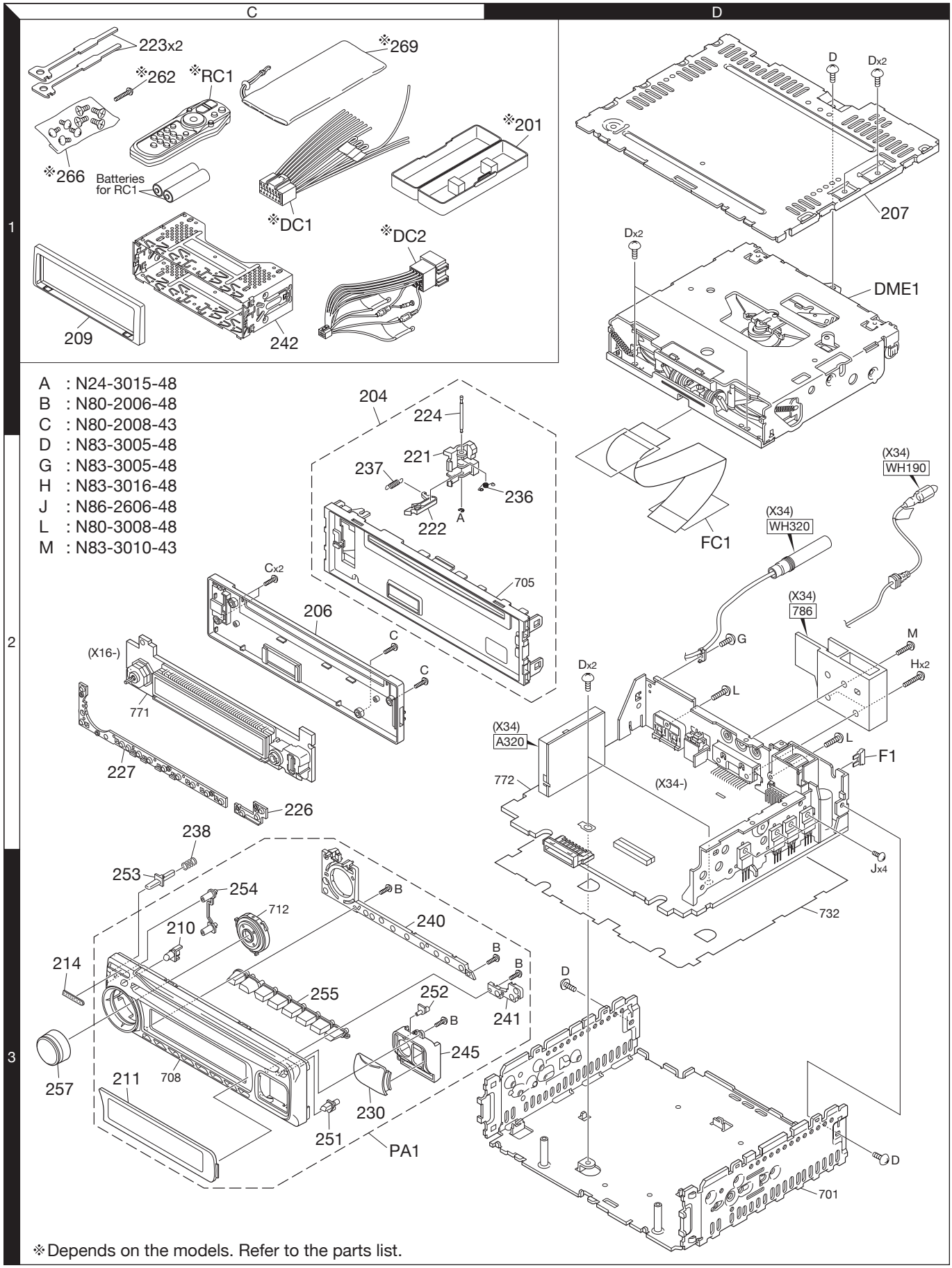
EXPLODED VIEW (CD MECHANISM)



A	ϕ2x8	: N09-4460-15
B	M1.6x6.0	: N09-6317-05
C	M1.7x2.5	: N09-6004-15
E	M2x2	: N09-6007-15
F	ϕ2x5(BLK)	: N09-6051-15
G	1.6 WASHER	: N19-2163-04
H	M2x2	: N39-2020-48
J	ϕ2x3.5	: N09-6108-15
K	ϕ2x6	: N09-6155-15

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

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 mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	Add	New	Parts No.	Description	Destination
KDC-MP408U/438U/MP5039U/MP5539U/X492/ W5041xx/W5141xxx/W5541U/W5641UY					
201	1D	✻	A02-2755-13	PLASTIC CABINET ASSY	M1M2
204	1C	✻	A22-3158-03	SUB PANEL ASSY	
206	2C	✻	A46-1864-01	REAR COVER	
207	1D	✻	A52-0897-02	TOP PLATE	
PA1	3C	✻	A64-4398-02	PANEL ASSY	K1
PA1	3C	✻	A64-4399-02	PANEL ASSY	K2
PA1	3C	✻	A64-4400-02	PANEL ASSY	K3
PA1	3C	✻	A64-4401-02	PANEL ASSY	M1
PA1	3C	✻	A64-4402-02	PANEL ASSY	M2
PA1	3C	✻	A64-4403-02	PANEL ASSY	E1
PA1	3C	✻	A64-4404-02	PANEL ASSY	E2E3
PA1	3C	✻	A64-4405-02	PANEL ASSY	E4
PA1	3C	✻	A64-4406-02	PANEL ASSY	E5E6
RC1	1C		A70-2085-05	REMOTE CONTROLLER ASSY (RC-547)	K1K2K3
RC1	1C		A70-2085-05	REMOTE CONTROLLER ASSY (RC-547)	M1M2E4
RC1	1C		A70-2085-05	REMOTE CONTROLLER ASSY (RC-547)	E5E6
-		✻	B64-3955-00	INST. MANUAL (ENG.FRE.SPA.)	K1K2K3
-		✻	B64-3956-00	INST. MANUAL (ENG.S-CHI.)	M1M2
-		✻	B64-3957-00	INST. MANUAL (ARABIC)	M1M2
-		✻	B64-3958-00	INST. MANUAL (ENGLISH)	E1E2E3
-		✻	B64-3958-00	INST. MANUAL (ENGLISH)	E4E5E6
-		✻	B64-3959-00	INST. MANUAL (FRE.GER.DUT.)	E1E2E3
-		✻	B64-3960-00	INST. MANUAL (ITA.SPA.POR.)	E1E2E3
-		✻	B64-3961-00	INST. MANUAL (RUSSIAN)	E4E5E6
209	1C	✻	B07-3244-01	ESCUTCHEON	K2K3E1
209	1C	✻	B07-3244-01	ESCUTCHEON	E2E3E4
209	1C	✻	B07-3244-01	ESCUTCHEON	E5E6
209	1C	✻	B07-3245-01	ESCUTCHEON	K1M1M2
210	3C	✻	B10-5047-04	FRONT GLASS (REMOTE)	
211	3C	✻	B10-5061-01	FRONT GLASS	K1
211	3C	✻	B10-5062-01	FRONT GLASS	K2
211	3C	✻	B10-5063-01	FRONT GLASS	K3
211	3C	✻	B10-5064-01	FRONT GLASS	M1
211	3C	✻	B10-5065-01	FRONT GLASS	M2
211	3C	✻	B10-5066-01	FRONT GLASS	E1
211	3C	✻	B10-5067-01	FRONT GLASS	E2E3
211	3C	✻	B10-5068-01	FRONT GLASS	E4
211	3C	✻	B10-5069-01	FRONT GLASS	E5E6
214	3C		B43-1518-04	BADGE	
221	2C		D10-4446-03	LEVER	
222	2C		D10-4447-03	LEVER	
223	1C	✻	D10-7012-04	LEVER	
224	1C		D21-2329-04	SHAFT	
226	2C	✻	E29-2117-03	CONDUCTIVE RUBBER (EJECT)	
227	2C	✻	E29-2118-02	CONDUCTIVE RUBBER (PRESET)	
⚠ DC1	1C		E30-6428-05	DC CORD	K1K2K3
⚠ DC1	1C		E30-6428-05	DC CORD	M1M2
⚠ DC2	1C		E30-6671-05	DC CORD	E1E2E3
⚠ DC2	1C		E30-6671-05	DC CORD	E4E5E6
FC1	2D	✻	E39-0981-05	FLAT CABLE	
230	3C	✻	F07-1194-02	COVER	

Ref. No.	Add	New	Parts No.	Description	Destination
⚠ F1	2D		F52-0023-05	FUSE (MINI BLADE TYPE) (10A)	
236	2D		G01-2987-04	TORSION COIL SPRING	
237	2C	✻	G01-4662-04	EXTENSION SPRING	
238	2C		G01-3244-04	COMPRESSION SPRING (REL)	
-		✻	H54-4263-03	ITEM CARTON CASE	K1
-		✻	H54-4264-03	ITEM CARTON CASE	K2
-		✻	H54-4265-03	ITEM CARTON CASE	K3
-		✻	H54-4266-03	ITEM CARTON CASE	M1
-		✻	H54-4267-03	ITEM CARTON CASE	M2
-		✻	H54-4268-03	ITEM CARTON CASE	E1
-		✻	H54-4269-03	ITEM CARTON CASE	E2
-		✻	H54-4270-03	ITEM CARTON CASE	E3
-		✻	H54-4271-03	ITEM CARTON CASE	E4
-		✻	H54-4272-03	ITEM CARTON CASE	E5
-		✻	H54-4273-03	ITEM CARTON CASE	E6
240	3C	✻	J19-7192-02	HOLDER (PRESET)	
241	3D	✻	J19-7193-03	HOLDER (EJECT/RESET)	
242	1C		J21-9716-03	MOUNTING HARDWARE ASSY	
245	3C	✻	J90-1162-02	GUIDE	
251	3C	✻	K24-4798-04	PUSH KNOB (EJECT)	
252	3C	✻	K24-4799-04	PUSH KNOB (RESET)	
253	3C	✻	K24-4800-04	PUSH KNOB (RELEASE)	
254	3C	✻	K25-1917-03	PUSH KNOB (AME/DSP)	
255	3C	✻	K25-1918-02	PUSH KNOB (PRESET)	
257	3C	✻	K28-0280-04	KNOB ASSY (VOL)	
262	1C		N84-4016-48	PAN HEAD TAPTITE SCREW	K1K2K3
262	1C		N84-4016-48	PAN HEAD TAPTITE SCREW	M1M2
266	1C	✻	N99-1757-15	SCREW SET	K1K2K3
266	1C	✻	N99-1757-15	SCREW SET	M1M2
A	2C		N24-3015-48	E TYPE RETAINING RING	
B	3C		N80-2006-48	PAN HEAD TAPTITE SCREW	
C	2C		N80-2008-43	PAN HEAD TAPTITE SCREW	
D	1D		N83-3005-48	PAN HEAD TAPTITE SCREW	
269	1C		W01-1664-05	CARRYING CASE	K1
269	1C	✻	W01-1710-05	CARRYING CASE	K2K3E1
269	1C	✻	W01-1710-05	CARRYING CASE	E2E3E4
269	1C	✻	W01-1710-05	CARRYING CASE	E5E6
DME1	1D	✻	X92-6130-00	MECHANISM ASSY (DXM-6E20W)	
SWITCH UNIT (X16-622x-xx)					
D1-12			B30-1779-05	LED (1608,SR)	K2K3E2
D1-12			B30-1779-05	LED (1608,SR)	E5
D1-12			B30-1780-05	LED (1608,PG)	E3E6
D1-12			B30-1781-05	LED (1608,BLUE)	K1M1M2
D1-12			B30-1781-05	LED (1608,BLUE)	E1E4
D16			B30-1779-05	LED (1608,SR)	
D21-23			B30-1779-05	LED (1608,SR)	E2E5
D21-23			B30-1781-05	LED (1608,BLUE)	K1K2K3
D21-23			B30-1781-05	LED (1608,BLUE)	M1M2E1
D21-23			B30-1781-05	LED (1608,BLUE)	E4
D21-27			B30-1780-05	LED (1608,PG)	E3E6
D27			B30-1779-05	LED (1608,SR)	E2E5

K1 : KDC-X492 **K2** : KDC-MP438U **K3** : KDC-MP408U **M1** : KDC-MP5539U
M2 : KDC-MP5039U **E1** : KDC-W5541U **E2** : KDC-W5041UA **E3** : KDC-W5041UG
E4 : KDC-W5641UY **E5** : KDC-W5141UAY **E6** : KDC-W5141UGY

⚠Indicates safety critical components.

PARTS LIST

SWITCH UNIT (X16-622x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination
D27			B30-1781-05	LED (1608,BLUE)	K1K2K3
D27			B30-1781-05	LED (1608,BLUE)	M1M2E1
D27			B30-1781-05	LED (1608,BLUE)	E4
D115,116			B30-1779-05	LED (1608,SR)	E2E5
D115,116			B30-1781-05	LED (1608,BLUE)	K1K2K3
D115,116			B30-1781-05	LED (1608,BLUE)	M1M2E1
D115,116			B30-1781-05	LED (1608,BLUE)	E4
C8			CK73GB1A105K	CHIP C 1.0UF K	
C10			CK73GB1C104K	CHIP C 0.10UF K	
C28			CC73GCH1H102J	CHIP C 1000PF J	
C29			CC73GCH1H471J	CHIP C 470PF J	
C31			CK73GB1C104K	CHIP C 0.10UF K	
C32			CK73GB1H103K	CHIP C 0.010UF K	
J1		✻	E59-0854-05	RECTANGULAR PLUG	
J3		✻	E11-0654-05	3.5D PHONE JACK	
J4			E58-1062-05	RECTANGULAR RECEPTACLE	
CP10,11			RK74HB1J101J	CHIP-COM 100 J 1/16W	
CP14			RK74HB1J473J	CHIP-COM 47K J 1/16W	
R2			RK73GB2A221J	CHIP R 220 J 1/10W	
R5			RK73GB2A221J	CHIP R 220 J 1/10W	
R7			RK73GB2A221J	CHIP R 220 J 1/10W	
R10			RK73GB2A104J	CHIP R 100K J 1/10W	
R11			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R13			RK73GB2A101J	CHIP R 100 J 1/10W	
R15			RK73GB2A101J	CHIP R 100 J 1/10W	
R20			RK73GB2A101J	CHIP R 100 J 1/10W	
R21			RK73GB2A104J	CHIP R 100K J 1/10W	
R51-54			RK73FB2B621J	CHIP R 620 J 1/8W	K2K3
R51-55			RK73FB2B271J	CHIP R 270 J 1/8W	K1M1M2
R51-55			RK73FB2B271J	CHIP R 270 J 1/8W	E1E4
R51-55			RK73FB2B561J	CHIP R 560 J 1/8W	E3E6
R51-55			RK73FB2B621J	CHIP R 620 J 1/8W	E2E5
R55			RK73FB2B271J	CHIP R 270 J 1/8W	K2K3
R56			RK73EB2E821J	CHIP R 820 J 1/4W	E3E6
R60			RK73EB2E271J	CHIP R 270 J 1/4W	K1K2K3
R60			RK73EB2E271J	CHIP R 270 J 1/4W	M1M2E1
R60			RK73EB2E271J	CHIP R 270 J 1/4W	E4
R60			RK73EB2E621J	CHIP R 620 J 1/4W	E2E5
R60			RK73EB2E821J	CHIP R 820 J 1/4W	E3E6
R74,75			RK73PB2H300J	CHIP R 30 J 1/2W	
R80			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R81			RK73GB2A223J	CHIP R 22K J 1/10W	
R112			RK73GB2A104J	CHIP R 100K J 1/10W	
R113			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R117,118			RK73GB2A103J	CHIP R 10K J 1/10W	
S1		✻	S70-0947-05	TACT SWITCH	
D104			UDZW5.6(B)	ZENER DIODE	
ED1		✻	3-BT-259INK	FLUORESCENT INDICATOR TUBE	
IC2			PIC95603	ANALOGUE IC	
Q5			2SC4617	TRANSISTOR	
Q20			RT1N441U	TRANSISTOR	
Q21			RT1P141U	TRANSISTOR	

Ref. No.	Add	New	Parts No.	Description	Destination
Q22-24			DTA123JUA	DIGITAL TRANSISTOR	

CD PLAYER UNIT (X32-6130-00) IN CD MECHA

Ref. No.	Add	New	Parts No.	Description	Destination
C20			CC73GCH1H330J	CHIP C 33PF J	
C23			CC73GCH1H151J	CHIP C 150PF J	
C24			CK73FB1A225K	CHIP C 2.2UF K	
C25			CK73GB1A105K	CHIP C 1.0UF K	
C26			CK73GB1H153K	CHIP C 0.015UF K	
C27			CC73GCH1H470J	CHIP C 47PF J	
C30-32			CK73GB1H103K	CHIP C 0.010UF K	
C33			CK73GB1H332K	CHIP C 3300PF K	
C34			CK73GB1H104K	CHIP C 0.10UF K	
C35			CK73GB1H153K	CHIP C 0.015UF K	
C36			CK73GB1H104K	CHIP C 0.10UF K	
C38			CC73GCH1H680J	CHIP C 68PF J	
C39			CK73GB1H104K	CHIP C 0.10UF K	
C41			CK73GB1A105K	CHIP C 1.0UF K	
C44			CK73GB1H104K	CHIP C 0.10UF K	
C45			CK73GB1H332K	CHIP C 3300PF K	
C46			CK73GB1H103K	CHIP C 0.010UF K	
C47,48			CK73GB1H333K	CHIP C 0.033UF K	
C49,50			CK73GB1H104K	CHIP C 0.10UF K	
C51			CK73GB1H222K	CHIP C 2200PF K	
C52,53			CK73GB1H104K	CHIP C 0.10UF K	
C54			CK73GB1A105K	CHIP C 1.0UF K	
C58			CK73GB1A105K	CHIP C 1.0UF K	
C60			CK73EB0J226K	CHIP C 22UF K	
C61-64			CK73GB1H104K	CHIP C 0.10UF K	
C66			CK73FB1C105K	CHIP C 1.0UF K	
C68,69			CK73GB1H104K	CHIP C 0.10UF K	
C71			CK73GB1H104K	CHIP C 0.10UF K	
C72			CK73FB0J106K	CHIP C 10UF K	
C87,88			CK73GB1H332K	CHIP C 3300PF K	
C89-91			CK73GB1H104K	CHIP C 0.10UF K	
C94,95			CK73GB1A105K	CHIP C 1.0UF K	
C96			CK73GB1H103K	CHIP C 0.010UF K	
C97			CK73GB1H104K	CHIP C 0.10UF K	
C101			CK73GB1C224K	CHIP C 0.22UF K	
C102			CK73GB1A474K	CHIP C 0.47UF K	
C103			CK73GB1H153K	CHIP C 0.015UF K	
C104			CK73FB1A225K	CHIP C 2.2UF K	
CN1			E41-2612-05	FLAT CABLE CONNECTOR	
CN2			E41-2630-05	FLAT CABLE CONNECTOR	
X1			L78-1221-05	RESONATOR (16.93MHZ)	
CP7			RK74GB1J103J	CHIP-COM 10K J 1/16W	
R20			RK73GB2A184J	CHIP R 180K J 1/10W	
R27			RK73GB2A912J	CHIP R 9.1K J 1/10W	
R29			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R30			RK73GB2A101J	CHIP R 100 J 1/10W	
R31			RK73GB2A224J	CHIP R 220K J 1/10W	
R32			RK73GB2A181J	CHIP R 180 J 1/10W	
R33			RK73GB2A153J	CHIP R 15K J 1/10W	
R34			RK73GB2A473J	CHIP R 47K J 1/10W	
R35			RK73GB2A562J	CHIP R 5.6K J 1/10W	

K1 : KDC-X492 **K2** : KDC-MP438U **K3** : KDC-MP408U **M1** : KDC-MP5539U
M2 : KDC-MP5039U **E1** : KDC-W5541U **E2** : KDC-W5041UA **E3** : KDC-W5041UG
E4 : KDC-W5641UY **E5** : KDC-W5141UAY **E6** : KDC-W5141UGY

⚠Indicates safety critical components.

PARTS LIST

CD PLAYER UNIT (X32-6130-00) IN CD MECHA

Ref. No.	Add	New	Parts No.	Description	Destination
R36			RK73GB2A154J	CHIP R 150K J 1/10W	
R37			RK73GB2A334J	CHIP R 330K J 1/10W	
R38			RK73GB2A223J	CHIP R 22K J 1/10W	
R40			RK73GB2A114J	CHIP R 110K J 1/10W	
R41			RK73GB2A473J	CHIP R 47K J 1/10W	
R45			RK73GB2A221J	CHIP R 220 J 1/10W	
R46			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R50			RK73GB2A560J	CHIP R 56 J 1/10W	
R51			RK73EB2E220J	CHIP R 22 J 1/4W	
R52			RK73EB2E100J	CHIP R 10 J 1/4W	
R55			RK73GB2A103J	CHIP R 10K J 1/10W	
R59			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R60,61			RK73GB2A103J	CHIP R 10K J 1/10W	
R82,83			RK73GB2A331J	CHIP R 330 J 1/10W	
R207			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R216,217			RK73GB2A103J	CHIP R 10K J 1/10W	
R221,222			RK73GB2A101J	CHIP R 100 J 1/10W	
R226			RK73GB2A101J	CHIP R 100 J 1/10W	
R228-230			RK73GB2A101J	CHIP R 100 J 1/10W	
R231			RK73GB2A473J	CHIP R 47K J 1/10W	
R232			RK73GB2A104J	CHIP R 100K J 1/10W	
R233			RK73GB2A331J	CHIP R 330 J 1/10W	
R240			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R241			RK73GB2A104J	CHIP R 100K J 1/10W	
R243			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R244			RK73GB2A225J	CHIP R 2.2M J 1/10W	
R246			RK73GB2A104J	CHIP R 100K J 1/10W	
R247			RK73GB2A101J	CHIP R 100 J 1/10W	
R252			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R257-261			RK73GB2A101J	CHIP R 100 J 1/10W	
R262-264			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R280			RK73GB2A103J	CHIP R 10K J 1/10W	
R281,282			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	
R284,285			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	
R287			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	
R288			RK73GB2A302J	CHIP R 3.0K J 1/10W	
R289			RK73GB2A103J	CHIP R 10K J 1/10W	
S1,2			S68-0863-05	PUSH SWITCH	
S3			S68-0862-05	PUSH SWITCH	
D2			DAP202U	DIODE	
D3,4			DA204U	DIODE	
IC3		✻	BD8222EFV	ANALOGUE IC	
IC4		✻	TC94A70FG-010	MOS-IC	
IC5			S-1132B15U5T1G	ANALOGUE IC	
IC6			S-1132B33U5T1G	ANALOGUE IC	
IC11		✻	XC6218S152MR	MOS-IC	
Q1			2SB0970	TRANSISTOR	
Q13			DTC114YUA	DIGITAL TRANSISTOR	

ELECTRIC UNIT (X34-577x-xx)

C1			CD04AZ1C332M2	ELECTRO 3300UF 16WV	K2K3M1
C1			CD04AZ1C332M2	ELECTRO 3300UF 16WV	M2E1E2
C1			CD04AZ1C332M2	ELECTRO 3300UF 16WV	E3E4E5
C1			CD04AZ1C332M2	ELECTRO 3300UF 16WV	E6
C1			C90-6746-05	ELECTRO 3300UF 16WV	K1

Ref. No.	Add	New	Parts No.	Description	Destination
C10			CD04AT1A221M	ELECTRO 220UF 10WV	
C11			CK73GB1A105K	CHIP C 1.0UF K	
C12			CK73GB1C104K	CHIP C 0.10UF K	
C20			C90-6851-05	ELECTRO 220UF 25WV	
C22			CD04AS1V100M	ELECTRO 10UF 35WV	
C23			CD04AS0J101M	ELECTRO 100UF 6.3WV	
C25,26			CK73GB1A105K	CHIP C 1.0UF K	
C27			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C30			CK73GB1A474K	CHIP C 0.47UF K	
C31			CD04AS1C101M	ELECTRO 100UF 16WV	
C40			CK73GB1C104K	CHIP C 0.10UF K	
C42			CD04AS1C220M	ELECTRO 22UF 16WV	
C51			CD04AS1V100M	ELECTRO 10UF 35WV	
C60			CD04BK1E101M	ELECTRO 100UF 25WV	
C61			CK73GB1C104K	CHIP C 0.10UF K	
C62			CD04BK1A221M	ELECTRO 220UF 10WV	
C64			CK73GB1C104K	CHIP C 0.10UF K	
C65			CK73GB1H222K	CHIP C 2200PF K	
C67			CD04BK1A221M	ELECTRO 220UF 10WV	
C68,69			CK73GB1H102K	CHIP C 1000PF K	
C100			CD04AS1E470M	ELECTRO 47UF 25WV	K1
C101			CD04AS1C220M	ELECTRO 22UF 16WV	K1
C102			CD04AS1C470M	ELECTRO 47UF 16WV	K1
C103			CK73GB1H102K	CHIP C 1000PF K	K1
C122			CK73GB1H103K	CHIP C 0.010UF K	
C140			CD04AS1H3R3M	ELECTRO 3.3UF 50WV	
C141			CK73GB1A105K	CHIP C 1.0UF K	
C142			CK73GB1H104K	CHIP C 0.10UF K	
C160			CK73GB1H103K	CHIP C 0.010UF K	
C170			CK73GB1A105K	CHIP C 1.0UF K	
C171			CK73GB1H223K	CHIP C 0.022UF K	
C230			CK73GB1C104K	CHIP C 0.10UF K	
C232			CK73GB1C104K	CHIP C 0.10UF K	
C233			CD04BK1A221M	ELECTRO 220UF 10WV	
C300,301			CC73GCH1H220J	CHIP C 22PF J	E1E2E3
C300,301			CC73GCH1H220J	CHIP C 22PF J	E4E5E6
C303			CK73GB1H103K	CHIP C 0.010UF K	E1E2E3
C303			CK73GB1H103K	CHIP C 0.010UF K	E4E5E6
C305			CK73GB1C104K	CHIP C 0.10UF K	E1E2E3
C305			CK73GB1C104K	CHIP C 0.10UF K	E4E5E6
C306			CK73FB1A225K	CHIP C 2.2UF K	E1E2E3
C306			CK73FB1A225K	CHIP C 2.2UF K	E4E5E6
C307			CC73GCH1H331J	CHIP C 330PF J	E1E2E3
C307			CC73GCH1H331J	CHIP C 330PF J	E4E5E6
C318			CD04AS1C470M	ELECTRO 47UF 16WV	K1
C320-323			CK73GB1H103K	CHIP C 0.010UF K	
C400,401			CD04AS1V100M	ELECTRO 10UF 35WV	
C402,403			CK73GB1H102K	CHIP C 1000PF K	
C410,411			CD04AS1V100M	ELECTRO 10UF 35WV	K1K2M1
C410,411			CD04AS1V100M	ELECTRO 10UF 35WV	M2
C412,413			CK73GB1H102K	CHIP C 1000PF K	K1K2M1
C412,413			CK73GB1H102K	CHIP C 1000PF K	M2
C420,421			CD04AS1V100M	ELECTRO 10UF 35WV	K1K2
C422,423			CK73GB1H102K	CHIP C 1000PF K	K1K2
C440			CK73FB1E474K	CHIP C 0.47UF K	

K1 : KDC-X492 **K2** : KDC-MP438U **K3** : KDC-MP408U **M1** : KDC-MP5539U
M2 : KDC-MP5039U **E1** : KDC-W5541U **E2** : KDC-W5041UA **E3** : KDC-W5041UG
E4 : KDC-W5641UY **E5** : KDC-W5141UAY **E6** : KDC-W5141UGY

⚠Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-577x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination
C441			CD04AT0J470M	ELECTRO 47UF 6.3WV	
C442			CK73FB1E474K	CHIP C 0.47UF K	
C443			CK73GB1H103K	CHIP C 0.010UF K	
C445			CK73FB1E474K	CHIP C 0.47UF K	
C446			CE32BJ0J470M	CHIP EL 47UF 6.3WV	
C447			CK73FB1E474K	CHIP C 0.47UF K	
C448			CK73GB1H103K	CHIP C 0.010UF K	
C478,479			CK73GB1A474K	CHIP C 0.47UF K	
C480,481			CD04AS1H2R2M	ELECTRO 2.2UF 50WV	
C482,483			CK73GB1A105K	CHIP C 1.0UF K	
C486-488			CK73GB1A105K	CHIP C 1.0UF K	
C489-491			CD04AS1H2R2M	ELECTRO 2.2UF 50WV	
C492,493			CK73GB1A105K	CHIP C 1.0UF K	
C494			CK73GB1H103K	CHIP C 0.010UF K	
C495			CD04AS1V100M	ELECTRO 10UF 35WV	K2K3M1
C495			CD04AS1V100M	ELECTRO 10UF 35WV	M2E1E2
C495			CD04AS1V100M	ELECTRO 10UF 35WV	E3E4E5
C495			CD04AS1V100M	ELECTRO 10UF 35WV	E6
C496			CD04AS1C470M	ELECTRO 47UF 16WV	
C500-503			CK73GB1A224K	CHIP C 0.22UF K	
C504			C90-6711-05	ELECTRO 1UF 50WV	
C506,507			CK73GB1A105K	CHIP C 1.0UF K	
C508			CD04AS1A330M	ELECTRO 33UF 10WV	K3M1M2
C508			CD04AS1A330M	ELECTRO 33UF 10WV	E1E2E3
C508			CD04AS1A330M	ELECTRO 33UF 10WV	E4E5E6
C508			CD04AS1V100M	ELECTRO 10UF 35WV	K1K2
C520-527			CK73GB1H392K	CHIP C 3900PF K	E1E2E3
C520-527			CK73GB1H392K	CHIP C 3900PF K	E4E5E6
C600			CC73GCH1H220J	CHIP C 22PF J	
C601			CC73GCH1H180J	CHIP C 18PF J	
C602			CK73GB1C104K	CHIP C 0.10UF K	
C603,604			CK73GB1H103K	CHIP C 0.010UF K	
C606,607			CK73GB1H103K	CHIP C 0.010UF K	
C611			CK73GB1H103K	CHIP C 0.010UF K	
C612			CK73GB1H102K	CHIP C 1000PF K	
C613,614			CK73GB1H103K	CHIP C 0.010UF K	
C616			CK73GB1A105K	CHIP C 1.0UF K	
C660			CK73GB1H102K	CHIP C 1000PF K	
C680,681			CK73GB1H103K	CHIP C 0.010UF K	
C701			CK73GB1H103K	CHIP C 0.010UF K	
C702			CC73GCH1H220J	CHIP C 22PF J	
C703			CC73GCH1H180J	CHIP C 18PF J	
C704-706			CK73GB1H103K	CHIP C 0.010UF K	
C708-710			CK73GB1H103K	CHIP C 0.010UF K	
C711,712			CC73GCH1H150J	CHIP C 15PF J	
C713-715			CK73GB1H103K	CHIP C 0.010UF K	
C716,717			CK73FB0J106K	CHIP C 10UF K	
C718			CK73GB0J105K	CHIP C 1.0UF K	
C750,751			CC73GCH1H050C	CHIP C 5.0PF C	K1K2M1
C750,751			CC73GCH1H050C	CHIP C 5.0PF C	E1E4
C752			CK73GB1C104K	CHIP C 0.10UF K	K1K2M1
C752			CK73GB1C104K	CHIP C 0.10UF K	E1E4
C754,755			CK73GB1H102K	CHIP C 1000PF K	
CN680			E41-2358-05	FLAT CABLE CONNECTOR	

Ref. No.	Add	New	Parts No.	Description	Destination
J1			E58-0991-05	RECTANGULAR RECEPTACLE	
J400		✻	E63-0953-05	PIN JACK	K1K2
J400		✻	E63-0954-05	PIN JACK	M1M2
J400		✻	E63-0955-05	PIN JACK	K3E1E2
J400		✻	E63-0955-05	PIN JACK	E3E4E5
J400		✻	E63-0955-05	PIN JACK	E6
J440			E56-0855-05	CYLINDRICAL RECEPTACLE	
J660		✻	E58-1095-05	RECTANGULAR RECEPTACLE	
W320	2D	✻	E30-6803-05	CORD WITH PLUG	
WH190	2D		E30-6706-05	WIRING HARNESS (REMOTE)	
L1			L33-2365-05	CHOKE COIL ASSY	
L60		✻	L33-2456-05	SMALL FIXED INDUCTOR	
L600			L41-4795-33	SMALL FIXED INDUCTOR (4.7UH)	
L704			L41-4795-33	SMALL FIXED INDUCTOR (4.7UH)	
X300			L77-2002-05	CRYSTAL RESONATOR	E1E2E3
X300			L77-2002-05	CRYSTAL RESONATOR	E4E5E6
X600			L77-2921-05	CRYSTAL RESONATOR (32.768KHZ)	
X601			L78-0872-05	RESONATOR (12MHZ)	
X700			L77-2921-05	CRYSTAL RESONATOR (32.768KHZ)	
X701		✻	L77-2964-05	CRYSTAL RESONATOR (9.00MHZ)	
X750			L77-2921-05	CRYSTAL RESONATOR (32.768KHZ)	K1K2M1
X750			L77-2921-05	CRYSTAL RESONATOR (32.768KHZ)	E1E4
G	2D		N83-3005-48	PAN HEAD TAPTITE SCREW	
H	2D		N83-3016-48	PAN HEAD TAPTITE SCREW	
J	3D		N86-2606-48	BINDING HEAD TAPTITE SCREW	
L	2D		N80-3008-48	PAN HEAD TAPTITE SCREW	
M	2D	✻	N83-3010-43	PAN HEAD TAPTITE SCREW	
CP440,441			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP603-605			RK74GB1J101J	CHIP-COM 100 J 1/16W	
CP606			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP607			RK74GA1J472J	CHIP-COM 4.7K J 1/16W	
CP608			RK74GA1J101J	CHIP-COM 100 J 1/16W	
R10			RK73GH2A432D	CHIP R 4.3K D 1/10W	
R11			RK73GH2A243D	CHIP R 24K D 1/10W	
R12			RK73FB2B221J	CHIP R 220 J 1/8W	
R20			RK73FB2B123J	CHIP R 12K J 1/8W	
R21			RK73GB2A223J	CHIP R 22K J 1/10W	
R22			RK73FB2B822J	CHIP R 8.2K J 1/8W	
R30			RK73FB2B152J	CHIP R 1.5K J 1/8W	
R31			RK73GB2A104J	CHIP R 100K J 1/10W	
R40			RK73FB2B182J	CHIP R 1.8K J 1/8W	
R41			RK73GB2A473J	CHIP R 47K J 1/10W	
R50			RK73FB2B681J	CHIP R 680 J 1/8W	
R60			RK73GB2A683J	CHIP R 68K J 1/10W	
R61			RK73GB2A104J	CHIP R 100K J 1/10W	
R62			RK73GH2A623D	CHIP R 62K D 1/10W	
R63			RK73GH2A153D	CHIP R 15K D 1/10W	
R64			RK73EB2E100J	CHIP R 10 J 1/4W	
R65,66			RK73PB2H300J	CHIP R 30 J 1/2W	
R100			RK73PB2H220J	CHIP R 22 J 1/2W	K1
R101			RK73GB2A221J	CHIP R 220 J 1/10W	K1
R103			RK73GB2A102J	CHIP R 1.0K J 1/10W	K1
R104			RK73FB2B102J	CHIP R 1.0K J 1/8W	K1
R105			RK73GB2A102J	CHIP R 1.0K J 1/10W	K1

K1 : KDC-X492 **K2** : KDC-MP438U **K3** : KDC-MP408U **M1** : KDC-MP5539U
M2 : KDC-MP5039U **E1** : KDC-W5541U **E2** : KDC-W5041UA **E3** : KDC-W5041UG
E4 : KDC-W5641UY **E5** : KDC-W5141UAY **E6** : KDC-W5141UGY

⚠Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-577x-xx)

Ref. No.	Add	New	Parts No.	Description				Destination
R106			RK73GB2A513J	CHIP R	51K	J	1/10W	K1
R107			RK73EB2E2R2J	CHIP R	2.2	J	1/4W	K1
R108			RK73GB2A332J	CHIP R	3.3K	J	1/10W	K1
R109			RK73GB2A2R2J	CHIP R	2.2	J	1/10W	K1
R110			RK73GB2A222J	CHIP R	2.2K	J	1/10W	K1
R111			RK73GB2A473J	CHIP R	47K	J	1/10W	K1
R112			RK73GB2A472J	CHIP R	4.7K	J	1/10W	K1
R113			RK73GB2A102J	CHIP R	1.0K	J	1/10W	K1
R114			RK73GB2A101J	CHIP R	100	J	1/10W	K1
R120,121			RK73GB2A103J	CHIP R	10K	J	1/10W	
R126			RK73GB2A183J	CHIP R	18K	J	1/10W	
R127			RK73FB2B203J	CHIP R	20K	J	1/8W	
R128			RK73GB2A104J	CHIP R	100K	J	1/10W	
R129			RK73EB2E473J	CHIP R	47K	J	1/4W	
R130			RK73EB2E102J	CHIP R	1.0K	J	1/4W	
R131			RK73GB2A473J	CHIP R	47K	J	1/10W	
R132			RK73FB2B683J	CHIP R	68K	J	1/8W	
R133			RK73EB2E102J	CHIP R	1.0K	J	1/4W	
R140			RK73FB2B472J	CHIP R	4.7K	J	1/8W	
R141		✻	RK73PB2H561J	CHIP R	560	J	1/2W	
R142			RK73GB2A223J	CHIP R	22K	J	1/10W	
R143-145		✻	RK73PB2H561J	CHIP R	560	J	1/2W	
R150			RK73GB2A223J	CHIP R	22K	J	1/10W	K1K2K3
R150			RK73GB2A223J	CHIP R	22K	J	1/10W	M1M2
R151,152			RK73PB2H221J	CHIP R	220	J	1/2W	K1K2K3
R151,152			RK73PB2H221J	CHIP R	220	J	1/2W	M1M2
R153			RK73FB2B472J	CHIP R	4.7K	J	1/8W	
R160			RK73GB2A473J	CHIP R	47K	J	1/10W	
R161			RK73GB2A104J	CHIP R	100K	J	1/10W	
R162			RK73EB2E103J	CHIP R	10K	J	1/4W	
R170			RK73GB2A104J	CHIP R	100K	J	1/10W	
R171			RK73EB2E103J	CHIP R	10K	J	1/4W	
R190			RK73EB2E102J	CHIP R	1.0K	J	1/4W	
R230			RK73GB2A223J	CHIP R	22K	J	1/10W	
R300-302			RK73GB2A222J	CHIP R	2.2K	J	1/10W	E1E2E3
R300-302			RK73GB2A222J	CHIP R	2.2K	J	1/10W	E4E5E6
R303			RK73GB2A102J	CHIP R	1.0K	J	1/10W	E1E2E3
R303			RK73GB2A102J	CHIP R	1.0K	J	1/10W	E4E5E6
R305			RK73GB2A512J	CHIP R	5.1K	J	1/10W	E1E2E3
R305			RK73GB2A512J	CHIP R	5.1K	J	1/10W	E4E5E6
R306			RK73GB2A223J	CHIP R	22K	J	1/10W	E1E2E3
R306			RK73GB2A223J	CHIP R	22K	J	1/10W	E4E5E6
R307			RK73GB2A222J	CHIP R	2.2K	J	1/10W	E1E2E3
R307			RK73GB2A222J	CHIP R	2.2K	J	1/10W	E4E5E6
R308,309			RK73GB2A104J	CHIP R	100K	J	1/10W	E1E2E3
R308,309			RK73GB2A104J	CHIP R	100K	J	1/10W	E4E5E6
R321			RK73GB2A223J	CHIP R	22K	J	1/10W	
R322			RK73FB2B821J	CHIP R	820	J	1/8W	
R323,324			RK73GB2A471J	CHIP R	470	J	1/10W	
R400,401			RK73GB2A331J	CHIP R	330	J	1/10W	
R402,403			RK73GB2A223J	CHIP R	22K	J	1/10W	
R404,405			RK73FB2B181J	CHIP R	180	J	1/8W	
R410,411			RK73GB2A331J	CHIP R	330	J	1/10W	K1K2M1
R410,411			RK73GB2A331J	CHIP R	330	J	1/10W	M2
R412,413			RK73GB2A223J	CHIP R	22K	J	1/10W	K1K2M1
R412,413			RK73GB2A223J	CHIP R	22K	J	1/10W	M2
R414,415			RK73FB2B181J	CHIP R	180	J	1/8W	K1K2M1
R414,415			RK73FB2B181J	CHIP R	180	J	1/8W	M2
R420,421			RK73GB2A331J	CHIP R	330	J	1/10W	K1K2
R422,423			RK73GB2A223J	CHIP R	22K	J	1/10W	K1K2
R424,425			RK73FB2B181J	CHIP R	180	J	1/8W	K1K2
R440			RK73EB2E432J	CHIP R	4.3K	J	1/4W	
R441,442			RK73EB2E101J	CHIP R	100	J	1/4W	
R443			RK73EB2E432J	CHIP R	4.3K	J	1/4W	
R444,445			RK73EB2E101J	CHIP R	100	J	1/4W	
R446			RK73EB2E100J	CHIP R	10	J	1/4W	
R447			RK73EB2E4R7J	CHIP R	4.7	J	1/4W	
R448			RK73EB2E100J	CHIP R	10	J	1/4W	
R449,450			RK73EB2E101J	CHIP R	100	J	1/4W	
R451			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R454,455			RK73GB2A101J	CHIP R	100	J	1/10W	
R456,457			RK73GB2A104J	CHIP R	100K	J	1/10W	
R458			RK73GB2A101J	CHIP R	100	J	1/10W	
R459,460			RK73GB2A104J	CHIP R	100K	J	1/10W	
R461			RK73GB2A101J	CHIP R	100	J	1/10W	
R462			RK73GB2A104J	CHIP R	100K	J	1/10W	
R464			RK73EB2E100J	CHIP R	10	J	1/4W	
R465			RK73EB2E4R7J	CHIP R	4.7	J	1/4W	
R466			RK73EB2E100J	CHIP R	10	J	1/4W	
R467			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R480,481			RK73GB2A101J	CHIP R	100	J	1/10W	
R482,483			RK73GB2A103J	CHIP R	10K	J	1/10W	
R484			RK73EB2E2R2J	CHIP R	2.2	J	1/4W	
R505			RK73GB2A333J	CHIP R	33K	J	1/10W	K3M1M2
R505			RK73GB2A333J	CHIP R	33K	J	1/10W	E1E2E3
R505			RK73GB2A333J	CHIP R	33K	J	1/10W	E4E5E6
R505,506			RK73GB2A473J	CHIP R	47K	J	1/10W	K1K2
R506			RK73GB2A223J	CHIP R	22K	J	1/10W	K3M1M2
R506			RK73GB2A223J	CHIP R	22K	J	1/10W	E1E2E3
R506			RK73GB2A223J	CHIP R	22K	J	1/10W	E4E5E6
R508			RK73GB2A331J	CHIP R	330	J	1/10W	
R509			RK73GB2A133J	CHIP R	13K	J	1/10W	K3M1M2
R509			RK73GB2A133J	CHIP R	13K	J	1/10W	E1E2E3
R509			RK73GB2A133J	CHIP R	13K	J	1/10W	E4E5E6
R509			RK73GB2A153J	CHIP R	15K	J	1/10W	K1K2
R511			RK73GB2A100J	CHIP R	10	J	1/10W	
R513			RK73GB2A104J	CHIP R	100K	J	1/10W	
R514			RK73FB2B332J	CHIP R	3.3K	J	1/8W	K3M1M2
R514			RK73FB2B332J	CHIP R	3.3K	J	1/8W	E1E2E3
R514			RK73FB2B332J	CHIP R	3.3K	J	1/8W	E4E5E6
R515			RK73GB2A473J	CHIP R	47K	J	1/10W	K3M1M2
R515			RK73GB2A473J	CHIP R	47K	J	1/10W	E1E2E3
R515			RK73GB2A473J	CHIP R	47K	J	1/10W	E4E5E6
R516			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R600			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
R601			RK73GB2A225J	CHIP R	2.2M	J	1/10W	
R602			RK73GB2A104J	CHIP R	100K	J	1/10W	
R603,604			RK73GB2A103J	CHIP R	10K	J	1/10W	
R605			RK73GB2A104J	CHIP R	100K	J	1/10W	
R606			RK73GB2A102J	CHIP R	1.0K	J	1/10W	

K1 : KDC-X492 **K2** : KDC-MP438U **K3** : KDC-MP408U **M1** : KDC-MP5539U
M2 : KDC-MP5039U **E1** : KDC-W5541U **E2** : KDC-W5041UA **E3** : KDC-W5041UG
E4 : KDC-W5641UY **E5** : KDC-W5141UAY **E6** : KDC-W5141UGY

⚠Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-577x-xx)

Ref. No.	Add	New	Parts No.	Description				Destination
R608,609			RK73GB2A473J	CHIP R	47K	J	1/10W	
R610,611			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R612,613			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R614			RK73GB2A104J	CHIP R	100K	J	1/10W	
R615			RK73GB2A473J	CHIP R	47K	J	1/10W	
R617			RK73GB2A104J	CHIP R	100K	J	1/10W	
R618			RK73GB2A471J	CHIP R	470	J	1/10W	
R619,620			RK73GB2A104J	CHIP R	100K	J	1/10W	
R621			RK73GB2A471J	CHIP R	470	J	1/10W	
R622			RK73GB2A223J	CHIP R	22K	J	1/10W	
R623,624			RK73GB2A101J	CHIP R	100	J	1/10W	
R628			RK73GB2A101J	CHIP R	100	J	1/10W	
R629			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
R633,634			RK73GB2A392J	CHIP R	3.9K	J	1/10W	
R636			RK73GB2A223J	CHIP R	22K	J	1/10W	K2M2E2
R636			RK73GB2A223J	CHIP R	22K	J	1/10W	E3E5E6
R636			RK73GB2A473J	CHIP R	47K	J	1/10W	K1M1E1
R636			RK73GB2A473J	CHIP R	47K	J	1/10W	E4
R636-638			RK73GB2A473J	CHIP R	47K	J	1/10W	K3
R637			RK73GB2A473J	CHIP R	47K	J	1/10W	M2
R637-639			RK73GB2A473J	CHIP R	47K	J	1/10W	E2E3
R637,638			RK73GB2A473J	CHIP R	47K	J	1/10W	K2E5E6
R638			RK73GB2A223J	CHIP R	22K	J	1/10W	M1M2
R638			RK73GB2A473J	CHIP R	47K	J	1/10W	K1E4
R638,639			RK73GB2A473J	CHIP R	47K	J	1/10W	E1
R639			RK73GB2A223J	CHIP R	22K	J	1/10W	E4E5E6
R639			RK73GB2A473J	CHIP R	47K	J	1/10W	M1M2
R640			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
R642			RK73GB2A104J	CHIP R	100K	J	1/10W	
R643			RK73GB2A223J	CHIP R	22K	J	1/10W	
R644			RK73GB2A101J	CHIP R	100	J	1/10W	
R645			RK73GB2A473J	CHIP R	47K	J	1/10W	
R647			RK73GB2A222J	CHIP R	2.2K	J	1/10W	
R648			RK73GB2A473J	CHIP R	47K	J	1/10W	
R649			RK73GB2A101J	CHIP R	100	J	1/10W	
R650			RK73GB2A473J	CHIP R	47K	J	1/10W	
R660			RK73EB2E102J	CHIP R	1.0K	J	1/4W	
R661			RK73EB2E222J	CHIP R	2.2K	J	1/4W	
R662			RK73EB2E101J	CHIP R	100	J	1/4W	
R663			RK73EB2E102J	CHIP R	1.0K	J	1/4W	
R664			RK73EB2E101J	CHIP R	100	J	1/4W	
R665			RK73EB2E102J	CHIP R	1.0K	J	1/4W	
R666,667			RK73EB2E101J	CHIP R	100	J	1/4W	
R668,669			RK73EB2E102J	CHIP R	1.0K	J	1/4W	
R680			RK73GB2A223J	CHIP R	22K	J	1/10W	
R681			RK73GB2A101J	CHIP R	100	J	1/10W	
R683,684			RK73GB2A101J	CHIP R	100	J	1/10W	
R685			RK73GB2A223J	CHIP R	22K	J	1/10W	
R686			RK73GB2A101J	CHIP R	100	J	1/10W	
R687			RK73GB2A223J	CHIP R	22K	J	1/10W	
R688,689			RK73GB2A101J	CHIP R	100	J	1/10W	
R700			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R701			RK73GB2A101J	CHIP R	100	J	1/10W	
R704			RK73GB2A223J	CHIP R	22K	J	1/10W	
R705			RK73GB2A101J	CHIP R	100	J	1/10W	
R706			RK73GB2A223J	CHIP R	22K	J	1/10W	
R707			RK73GB2A104J	CHIP R	100K	J	1/10W	
R708			RK73GB2A101J	CHIP R	100	J	1/10W	
R709,710			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R711			RK73GB2A223J	CHIP R	22K	J	1/10W	
R713			RK73GB2A101J	CHIP R	100	J	1/10W	
R714			RK73GB2A223J	CHIP R	22K	J	1/10W	
R715			RK73GB2A102J	CHIP R	1.0K	J	1/10W	
R716-719			RK73GB2A101J	CHIP R	100	J	1/10W	
R720			RK73GB2A223J	CHIP R	22K	J	1/10W	
R721			RK73GB2A101J	CHIP R	100	J	1/10W	K3M2E2
R721			RK73GB2A101J	CHIP R	100	J	1/10W	E3E5E6
R721,722			RK73GB2A101J	CHIP R	100	J	1/10W	K1K2M1
R721,722			RK73GB2A101J	CHIP R	100	J	1/10W	E1E4
R723			RK73GB2A223J	CHIP R	22K	J	1/10W	K1K2M1
R723			RK73GB2A223J	CHIP R	22K	J	1/10W	E1E4
R724			RK73GB2A101J	CHIP R	100	J	1/10W	
R725			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R726			RK73GB2A000J	CHIP R	0.0	J	1/10W	
R727			RK73GB2A105J	CHIP R	1.0M	J	1/10W	
R728			RK73GB2A223J	CHIP R	22K	J	1/10W	
R729			RK73GB2A330J	CHIP R	33	J	1/10W	
R730			RK73GB2A153J	CHIP R	15K	J	1/10W	
R731			RK73GB2A330J	CHIP R	33	J	1/10W	
R732			RK73GB2A153J	CHIP R	15K	J	1/10W	
R733			RK73GB2A472J	CHIP R	4.7K	J	1/10W	
R734-737			RK73GB2A101J	CHIP R	100	J	1/10W	
R738			RK73GB2A223J	CHIP R	22K	J	1/10W	
R739,740			RK73GB2A101J	CHIP R	100	J	1/10W	
R742			RK73GB2A101J	CHIP R	100	J	1/10W	
R744-746			RK73GB2A101J	CHIP R	100	J	1/10W	
R747			RK73GB2A223J	CHIP R	22K	J	1/10W	
R749			RK73GB2A223J	CHIP R	22K	J	1/10W	
R750			RK73GB2A515J	CHIP R	5.1M	J	1/10W	K1K2M1
R750			RK73GB2A515J	CHIP R	5.1M	J	1/10W	E1E4
R751			RK73GB2A473J	CHIP R	47K	J	1/10W	K1K2M1
R751			RK73GB2A473J	CHIP R	47K	J	1/10W	E1E4
R752,753			RK73GB2A101J	CHIP R	100	J	1/10W	K1K2M1
R752,753			RK73GB2A101J	CHIP R	100	J	1/10W	E1E4
R754,755			RK73GB2A473J	CHIP R	47K	J	1/10W	K1K2M1
R754,755			RK73GB2A473J	CHIP R	47K	J	1/10W	E1E4
R756			RK73GB2A101J	CHIP R	100	J	1/10W	K1K2M1
R756			RK73GB2A101J	CHIP R	100	J	1/10W	E1E4
R757			RK73GB2A473J	CHIP R	47K	J	1/10W	K1K2M1
R757			RK73GB2A473J	CHIP R	47K	J	1/10W	E1E4
R758			RK73GH2A104D	CHIP R	100K	D	1/10W	K1K2M1
R758			RK73GH2A104D	CHIP R	100K	D	1/10W	E1E4
R762-764			RK73GB2A473J	CHIP R	47K	J	1/10W	K1K2M1
R762-764			RK73GB2A473J	CHIP R	47K	J	1/10W	E1E4
R767			RK73GB2A223J	CHIP R	22K	J	1/10W	
R768			RK73GB2A333J	CHIP R	33K	J	1/10W	K1K2M1
R768			RK73GB2A333J	CHIP R	33K	J	1/10W	E1E4
W100			R92-2053-05	CHIP R	0 OHM	J	1/8W	K2K3M1
W100			R92-2053-05	CHIP R	0 OHM	J	1/8W	M2E1E2
W100			R92-2053-05	CHIP R	0 OHM	J	1/8W	E3E4E5

K1 : KDC-X492 **K2** : KDC-MP438U **K3** : KDC-MP408U **M1** : KDC-MP5539U
M2 : KDC-MP5039U **E1** : KDC-W5541U **E2** : KDC-W5041UA **E3** : KDC-W5041UG
E4 : KDC-W5641UY **E5** : KDC-W5141UAY **E6** : KDC-W5141UGY

⚠Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-577x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination
W100			R92-2053-05	CHIP R 0 OHM J 1/8W	E6
W140			R92-1252-05	CHIP R 0 OHM J 1/16W	E1E2E3
W140			R92-1252-05	CHIP R 0 OHM J 1/16W	E4E5E6
W321			R92-2053-05	CHIP R 0 OHM J 1/8W	
W500			R92-1252-05	CHIP R 0 OHM J 1/16W	K3M1M2
W500			R92-1252-05	CHIP R 0 OHM J 1/16W	E1E2E3
W500			R92-1252-05	CHIP R 0 OHM J 1/16W	E4E5E6
W501,502			R92-1252-05	CHIP R 0 OHM J 1/16W	K1K2
W705			R92-1252-05	CHIP R 0 OHM J 1/16W	
D1			S2V60-5009F46	DIODE	
D20			RB160L-40	DIODE	
D21			UDZW5.6(B)	ZENER DIODE	
D30		✻	UDZW8.2(B)	ZENER DIODE	
D40		✻	UDZW12(B)	ZENER DIODE	
D50		✻	UDZW20(B)	ZENER DIODE	
D60			RB060M-30	DIODE	
D100		✻	UDZW12(B)	ZENER DIODE	K1
D101			UDZW5.6(B)	ZENER DIODE	K1
D102			1SR154-400	DIODE	K1
D103			DAP202U	DIODE	K1
D121,122			UDZW6.8(B)	ZENER DIODE	
D123		✻	UDZW6.2(B)	ZENER DIODE	
D140,141			1SR154-400	DIODE	
D142			1SS355	DIODE	
D150,151			1SR154-400	DIODE	
D160			UDZW4.7(B)	ZENER DIODE	
D190		✻	UDZW6.2(B)	ZENER DIODE	
D400			DAP202U	DIODE	
D410			DAP202U	DIODE	K1K2M1
D410			DAP202U	DIODE	M2
D440-442			UDZW6.8(B)	ZENER DIODE	
D443		✻	UDZW6.2(B)	ZENER DIODE	
D448		✻	UDZW6.2(B)	ZENER DIODE	
D451-453			UDZW6.8(B)	ZENER DIODE	
D482-484			DAP202U	DIODE	
D501			DAP202U	DIODE	
D700,701			AVRL1613R3FTA	VARISTOR	
IC10			M5237ML-CF0J	ANALOGUE IC	
IC20			R1114N331B-TR	ANALOGUE IC (3.3V LF)	
IC60			BD9781HFP	ANALOGUE IC	
IC100			TA75S558F-F	ANALOGUE IC	K1
IC230		✻	STMPS2151STR	MOS-IC	
IC300			E-TDA7478AD	ANALOGUE IC	E1E2E3
IC300			E-TDA7478AD	ANALOGUE IC	E4E5E6
IC480			E-TDA7415CB	ANALOGUE IC	
IC500		✻	KKZ11Z	ANALOGUE IC	K1K2
IC500		✻	KKZ12Z	ANALOGUE IC	K3M1M2
IC500		✻	KKZ12Z	ANALOGUE IC	E1E2E3
IC500		✻	KKZ12Z	ANALOGUE IC	E4E5E6
IC600		✻	30622MGPB58GP	MICROCONTROLLER IC	
IC601			XC6120N362N1	MOS-IC	
IC603			74HC2G02DP	MOS-IC	
IC680		✻	74AHCT08PW	MOS-IC	
IC682		✻	74LVC08APW	MOS-IC	

Ref. No.	Add	New	Parts No.	Description	Destination
IC700		✻	92CD28AFG	MICROCONTROLLER IC	
IC750			341S2094	MICROPROCESSOR IC	K1K2M1
IC750			341S2094	MICROPROCESSOR IC	E1E4
Q10			KTA1046-P	TRANSISTOR	
Q11			KRA303-P	DIGITAL TRANSISTOR	
Q12			KRC403-P	DIGITAL TRANSISTOR	
Q20			KTA1046-P	TRANSISTOR	
Q21			2SC4081	TRANSISTOR	
Q22			2SA1576A	TRANSISTOR	
Q23			KRC403-P	DIGITAL TRANSISTOR	
Q30			KTA1046-P	TRANSISTOR	
Q31			2SC4081	TRANSISTOR	
Q32			KRA303-P	DIGITAL TRANSISTOR	
Q33			KRC403-P	DIGITAL TRANSISTOR	
Q40			KTA1046-P	TRANSISTOR	
Q41			2SC4081	TRANSISTOR	
Q42			KRA303-P	DIGITAL TRANSISTOR	
Q43			KRC403-P	DIGITAL TRANSISTOR	
Q50			2SB1184(Q,R)	TRANSISTOR	
Q51			2SC4081	TRANSISTOR	
Q100			2SB1443	TRANSISTOR	K1
Q101			2SC4081	TRANSISTOR	K1
Q103			2SC4081	TRANSISTOR	K1
Q104			KRA303-P	DIGITAL TRANSISTOR	K1
Q105			KRC403-P	DIGITAL TRANSISTOR	K1
Q120			2SC4081	TRANSISTOR	
Q122,123			2SC4081	TRANSISTOR	
Q140			2SB1188(Q,R)	TRANSISTOR	
Q141			2SA1576A	TRANSISTOR	
Q142			RT1P141M	TRANSISTOR	
Q143			RT1N144M	TRANSISTOR	
Q150			2SB1188(Q,R)	TRANSISTOR	K1K2K3
Q150			2SB1188(Q,R)	TRANSISTOR	M1M2
Q151			RT1N144M	TRANSISTOR	K1K2K3
Q151			RT1N144M	TRANSISTOR	M1M2
Q170			KRC404-P	DIGITAL TRANSISTOR	
Q320			2SB1689	TRANSISTOR	
Q321			KRC403-P	DIGITAL TRANSISTOR	
Q367,368			KRC410-P	DIGITAL TRANSISTOR	K1K2
Q400			KRA303-P	DIGITAL TRANSISTOR	
Q401,402			KRC410-P	DIGITAL TRANSISTOR	
Q410			KRA303-P	DIGITAL TRANSISTOR	K1K2M1
Q410			KRA303-P	DIGITAL TRANSISTOR	M2
Q411,412			KRC410-P	DIGITAL TRANSISTOR	K1K2M1
Q411,412			KRC410-P	DIGITAL TRANSISTOR	M2
Q500			RT1N144M	TRANSISTOR	K3M1M2
Q500			RT1N144M	TRANSISTOR	E1E2E3
Q500			RT1N144M	TRANSISTOR	E4E5E6
Q660			KRA307-P	DIGITAL TRANSISTOR	
Q702			RT1N144M	TRANSISTOR	
Q703			2SB1689	TRANSISTOR	
Q704,705			RT1N144M	TRANSISTOR	
TH500			PRF18BE471QS2	POSITIVE RESISTOR	
A320	2D		X86-4032-70	FRONT-END UNIT	E1E2E3

K1 : KDC-X492 **K2** : KDC-MP438U **K3** : KDC-MP408U **M1** : KDC-MP5539U
M2 : KDC-MP5039U **E1** : KDC-W5541U **E2** : KDC-W5041UA **E3** : KDC-W5041UG
E4 : KDC-W5641UY **E5** : KDC-W5141UAY **E6** : KDC-W5141UGY

⚠Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-577x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination
A1	2D		X86-4032-70	FRONT-END UNIT	E4E5E6
A1	2D	✻	X86-4160-11	FRONT-END UNIT	K1K2K3
A1	2D	✻	X86-4160-11	FRONT-END UNIT	M1M2
MECHANISM ASSY (X92-6130-00) DXM-6E20W					
1	2B		A10-5328-31	CHASSIS	
2	1B		A10-5329-11	CHASSIS	
5	2B		D10-4910-13	ARM ASSY	
8	2A		D10-4911-23	LEVER ASSY	
10	2A		D10-4906-33	ARM	
11	2A		D10-4907-33	ARM	
12	3A		D10-4908-03	ARM	
13	3A		D10-4909-03	ARM	
14	3B		D10-4915-03	ARM	
15	2A		D10-4916-23	SLIDER	
16	3B		D10-4914-22	SLIDER	
17	2B		D10-4588-13	SLIDER	
18	2B		D10-4917-04	ARM	
19	2B		D10-4596-24	ARM	
22	2A		D13-2151-04	GEAR	
23	2B		D13-2152-04	GEAR	
24	3B		D13-2153-04	GEAR	
25	3B		D13-2154-04	GEAR	
26	3B		D13-2155-04	WORM	
27	2B		D13-2156-14	GEAR	
28	3B		D13-2157-04	GEAR	
29	2B		D13-2158-04	GEAR	
30	2B		D13-2168-04	GEAR	
31	3B		D13-2171-04	GEAR	
32	1B		D13-2400-13	RACK (GEAR)	
33	2A		D14-0759-04	ROLLER	
35	2B		D21-2382-04	SHAFT	
36	1A		D23-0954-04	RETAINER	
37	1B	✻	D39-0271-05	DAMPER	
38	2B		G01-3072-04	EXTENSION SPRING	
39	2A		G01-3073-04	TORSION COIL SPRING	
40	2A		G01-3074-04	EXTENSION SPRING	
41	1B		G01-4615-04	EXTENSION SPRING	
42	2A		G01-3076-04	EXTENSION SPRING	
43	1B		G01-3077-14	EXTENSION SPRING	
44	2B		G02-1399-14	FLAT SPRING	
45	2B		G02-1547-14	FLAT SPRING	
51	1A		J22-0473-21	MOUNTING HARDWARE	
52	3B		J22-0474-12	MOUNTING HARDWARE	
53	1B		J22-0519-13	MOUNTING HARDWARE	
55	1A		J90-1138-41	GUIDE	
56	1B		J90-1023-03	GUIDE	
DPC1	3A		J86-0039-05	FPC (LEAD FREE)	
A	2B		N09-4460-15	TAPTITE SCREW (PT2X8)	
B	1B		N09-6317-05	TAPTITE SCREW (1.6X6.0)	
C	2B		N09-6004-15	MACHINE SCREW (M1.7X2.5)	
E	2B		N09-6007-15	MACHINE SCREW (M2X2)	
F	1A		N09-6051-15	TAPTITE SCREW (PT2X5)	
G	2A		N19-2163-04	FLAT WASHER (1.6X6X0.25)	
H	1B		N39-2020-48	PAN HEAD MACHINE SCREW (M2X2)	
J	1B		N09-6108-15	TAPTITE SCREW (M2X3.5)	
K	3B		N09-6155-15	SEMS (TAPTITE SCREW) (PT2X6)	
DM1	3B		T42-1066-14	DC MOTOR (SPINDLE)	
DM2	2B		T42-1067-14	DC MOTOR (LOADING/SLED)	
DPU1	2B		X93-2130-01	OPTICAL PICKUP ASSY	

K1 : KDC-X492 **K2** : KDC-MP438U **K3** : KDC-MP408U **M1** : KDC-MP5539U
M2 : KDC-MP5039U **E1** : KDC-W5541U **E2** : KDC-W5041UA **E3** : KDC-W5041UG
E4 : KDC-W5641UY **E5** : KDC-W5141UAY **E6** : KDC-W5141UGY

⚠Indicates safety critical components.

SPECIFICATIONS

■ Models for destination “K”

FM tuner section

Frequency range
- 200kHz space ..... 87.9MHz~107.9MHz
- 50kHz space (KDC-MP408U) ..... 87.5MHz~108.0MHz

Usable sensitivity (S/N=30dB) 9.3dBf (0.8μV/75Ω)
Quieting Sensitivity (S/N=50dB) 15.2dBf (1.6μV/75Ω)
Frequency response (±3.0dB) ..... 30Hz~15kHz
Signal to Noise ratio (MONO) 70dB
Selectivity (±400kHz) ..... ≧80dB
Stereo separation (1kHz) 40dB

AM tuner section

Frequency range (10kHz space) ..... 530kHz~1700kHz
Usable sensitivity (S/N=20dB) 28dBμ (25μV)

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 (±1dB) ..... 10Hz~20kHz
Total harmonic distortion (1kHz)
- KDC-X492 ..... 0.008%
- KDC-MP438U/MP408U 0.01dB

Signal to Noise ratio (1kHz)
- KDC-X492 ..... 110dB
- KDC-MP438U/MP408U 108dB

Dynamic range 93dB
MP3 decode ..... Compliant with MPEG-1/2 Audio Layer-3
WMA decode ..... Compliant with Windows Media Audio
AAC decode ..... AAC-LC “.m4a” files

USB Interface

USB standard USB1.1/2.0
Maximum supply current 500mA
File system FAT16/32
MP3 decode ..... Compliant with MPEG-1/2 Audio Layer-3
WMA decode ..... Compliant with Windows Media Audio
AAC decode ..... AAC-LC “.m4a” files

Audio section

Maximum output power ..... 50W x 4
Full Bandwidth Power (at less than 1% THD) ..... 22W x 4
Speaker Impedance ..... 4~8Ω
Tone action
- Bass ..... 100Hz±8dB
- Middle ..... 1kHz±8dB
- Treble ..... 10kHz±8dB

Preout level/Load (CD)
- KDC-X492 ..... 4000mV/10kΩ
- KDC-MP438U/MP408U 2500mV/10kΩ

Preout impedance ..... ≦600Ω

Auxiliary input

Frequency response (±1dB) ..... 20Hz~20kHz
Input Maximum Voltage 1200mV
Input Impedance 10kΩ

General

Operating voltage (11~16V allowable) 14.4V
Current consumption 10A
Installation Size (W x H x D) ..... 182 x 53 x 155mm
..... 7-3/16 x 2-1/16 x 6-1/8inch
Weight 3.1lbs (1.40kg)

■ Models for destination “M”

FM tuner section

Frequency range
- 200kHz space ..... 87.9MHz~107.9MHz
- 50kHz space ..... 87.5MHz~108.0MHz

Usable sensitivity (S/N=30dB) 9.3dBf (0.8μV/75Ω)
Quieting Sensitivity (S/N=50dB) 15.2dBf (1.6μV/75Ω)
Frequency response (±3.0dB) ..... 30Hz~15kHz
Signal to Noise ratio (MONO) 70dB
Selectivity (±400kHz) ..... ≧80dB
Stereo separation (1kHz) 40dB

AM tuner section

Frequency range
- 10kHz space ..... 530kHz~1700kHz
- 9kHz space ..... 531kHz~1611kHz

Usable sensitivity (S/N=20dB) 28dBμ (25μV)

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 (±1dB) ..... 10Hz~20kHz
Total harmonic distortion (1kHz) 0.008%
Signal to Noise ratio (1kHz) 110dB
Dynamic range 93dB
MP3 decode ..... Compliant with MPEG-1/2 Audio Layer-3
WMA decode ..... Compliant with Windows Media Audio
AAC decode ..... AAC-LC “.m4a” files

USB Interface

USB standard USB1.1/2.0
Maximum supply current 500mA
File system FAT16/32

SPECIFICATIONS

MP3 decode.....Compliant with MPEG-1/2 Audio Layer-3
WMA decode.....Compliant with Windows Media Audio
AAC decode .....AAC-LC ".m4a" files

Audio section

Maximum output power ..... 50W x 4
Full Bandwidth Power (at less than 1% THD) ..... 22W x 4
Speaker Impedance .....4~8Ω
Tone action
  Bass ..... 100Hz±8dB
  Middle .....1kHz±8dB
  Treble .....10kHz±8dB
Preout level/Load (CD) 2500mV/10kΩ
Preout impedance .....≦600Ω

Auxiliary input

Frequency response (±1dB) .....20Hz~20kHz
Input Maximum Voltage..... 1200mV
Input Impedance 10kΩ

General

Operating voltage (11~16V allowable)..... 14.4V
Current consumption..... 10A
Installation Size (W x H x D) .....182 x 53 x 155mm
Weight 1.40kg

■ Models for destination "E"

FM tuner section

Frequency range (50kHz space)..... 87.5MHz~108.0MHz
Usable sensitivity (S/N=26dB)..... 0.7μV/75Ω
Quieting Sensitivity (S/N=46dB)..... 1.6μV/75Ω
Frequency response (±3.0dB) .....30Hz~15kHz
Signal to Noise ratio (MONO).....65dB
Selectivity (±400kHz).....≧80dB
Stereo separation (1kHz).....35dB

MW tuner section

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

LW tuner section

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

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

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 (±1dB) .....10Hz~20kHz
Total harmonic distortion (1kHz).....0.008%
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
AAC decode .....AAC-LC ".m4a" files

USB Interface

USB standard USB1.1/2.0
Maximum supply current..... 500mA
File system FAT16/32
MP3 decode.....Compliant with MPEG-1/2 Audio Layer-3
WMA decode.....Compliant with Windows Media Audio
AAC decode .....AAC-LC ".m4a" files

Audio section

Maximum output power ..... 50W x 4
Full Bandwidth Power (at less than 1% THD) ..... 30W x 4
Speaker Impedance .....4~8Ω
Tone action
  Bass ..... 100Hz±8dB
  Middle .....1kHz±8dB
  Treble .....10kHz±8dB
Preout level/Load (CD) 2500mV/10kΩ
Preout impedance .....≦600Ω

Auxiliary input

Frequency response (±1dB) .....20Hz~20kHz
Input Maximum Voltage..... 1200mV
Input Impedance 10kΩ

General

Operating voltage (11~16V allowable)..... 14.4V
Current consumption..... 10A
Installation Size (W x H x D) .....182 x 53 x 155mm
Weight 1.40kg

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