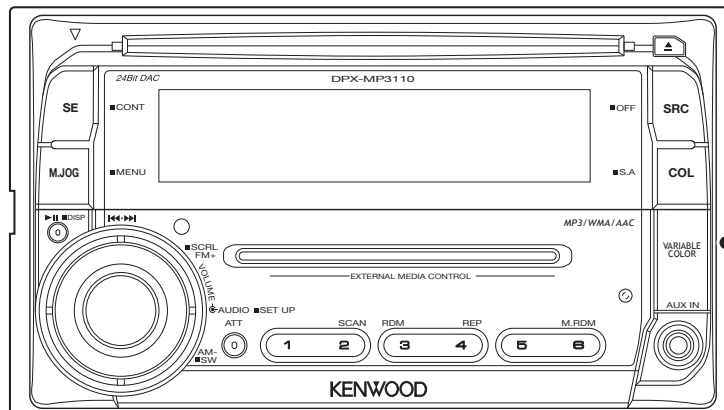


DPX-MP3110 DPX-MP3110S DPX-MP5110U DPX-MP5110US SERVICE MANUAL

KENWOOD

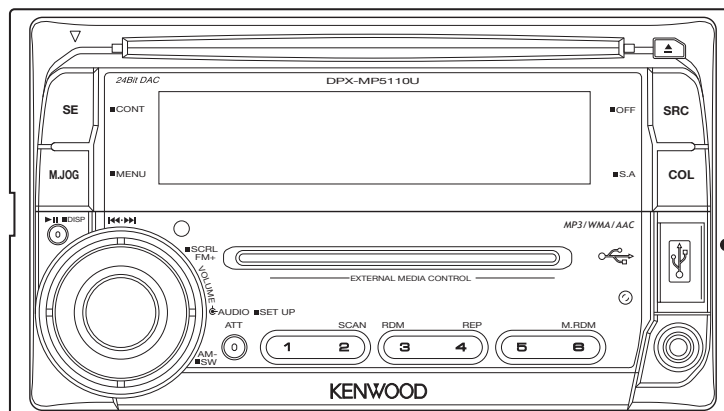
Kenwood Corporation

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B53-0624-00 (N) 243



DPX-MP3110
DPX-MP3110S

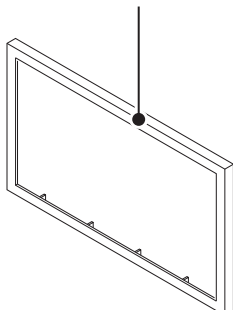
Panel assy
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DPX-MP3110S : (A64-4609-12)



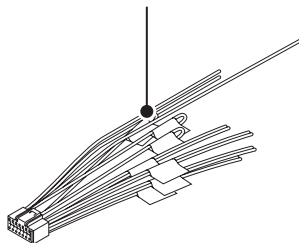
DPX-MP5110U
DPX-MP5110US

Panel assy
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DPX-MP5110US : (A64-4462-12)

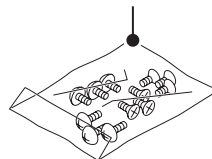
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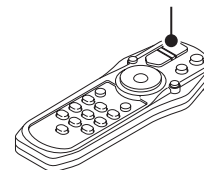
DC cord
(E30-6414-05)



Screw set
(N99-1779-15)



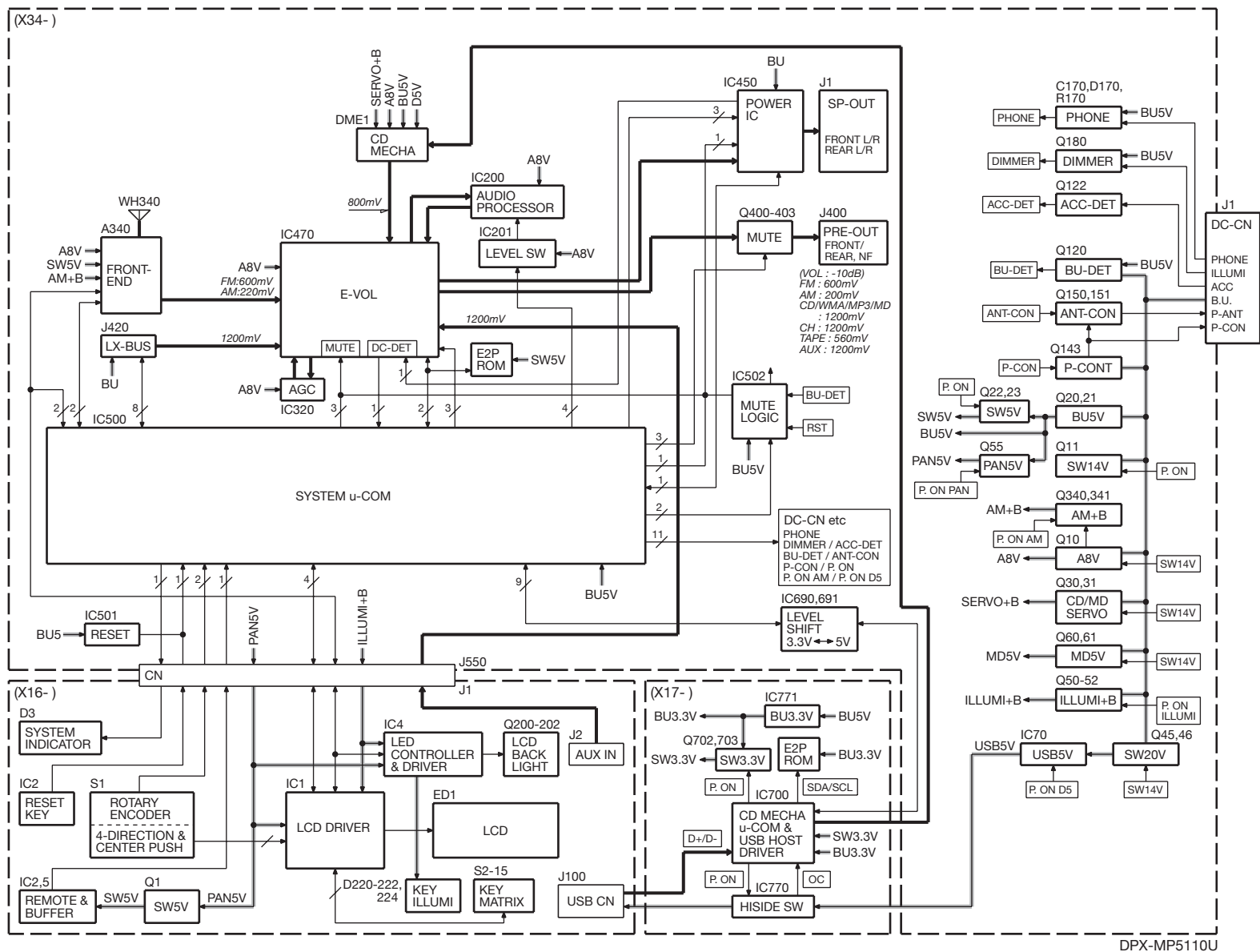
Remote controller assy (RC-547)
(A70-2085-05)



Battery
(Not supplied)

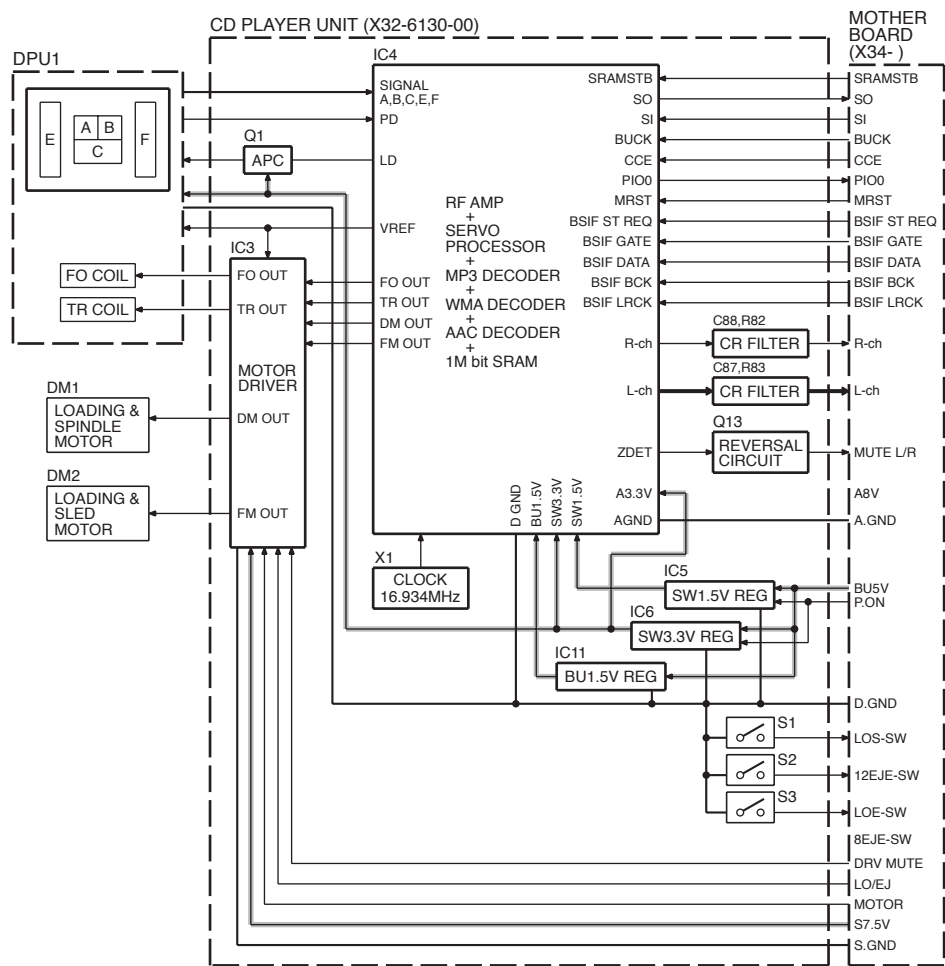






DPX-MP3110/MP3110S
DPX-MP5110U/MP5110US

BLOCK DIAGRAM



COMPONENTS DESCRIPTION

● ELECTRIC UNIT (X34-573x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC10	AUD8V REF Power Supply	Outputs 1.27V.
IC70	USB5V	Switching regulator.
IC200	Audio Processor	Sound enhancer.
IC201	Level SW	Sound enhancer level control.
IC320	Buffer AMP & AGC	Buffer and auto gain control for spectrum analyzer.
IC450	Power IC	Amplifies front L/R and rear L/R to 50W maximum.
IC470	Source Selector & E-VOL	Select source & Full source volume. Speaker out "DC-Offset" detection and protection. (This function consists of IC450 and IC470)
IC500	System μ -COM	System control & Power management. (Panel, AM/FM, Changer, External product, CD mechanism, X17 unit)
IC501	System μ -COM Reset Control	Outputs Lo (system μ -com reset) when detection voltage goes below 3.6V or less.
IC502	Mute Logic	Controls mute logic.
IC690	Level Shift (MP3110/S)	From system μ -com to CD mechanism.
IC690	Level Shift (MP5110U/US)	From system μ -com to X17 unit.
IC691	Level Shift (MP3110/S)	From CD mechanism to system μ -com.
IC691	Level Shift (MP5110U/US)	From X17 unit to system μ -com.
Q10	AUD8V AVR	Outputs 8V when system power supply is ON.
Q11	SW14V	POWER ON in active time.
Q20,21	BU5V AVR	Always outputs 5V.
Q22,23	SW5V	POWER ON in active time.
Q30,31	Servo AVR	CD mechanism servo
Q45,46	SW20V (MP5110U/US)	For IC70.
Q50-52	ILLUMI AVR	Outputs 10V when system power supply is ON.
Q120	BU DET SW	Detects backup voltage. ON if BU is good.
Q122	ACC DET SW	Detects ACC voltage. ON if ACC is good.
Q123	Surge DET SW	Detects over-input voltage when this transistor is ON.
Q140-143	Power Control SW	POWER ON in active time.
Q150,151	Power Antenna SW	AM/FM source in active time.
Q180	Small Lamp DET SW	Detects small lamp when this transistor is ON.
Q200,201	Sound Enhancer Level Control SW	SE Hi: Q200 is active. Bass Hi: Q201 is active.
Q320	Spectrum Analyzer AGC	When this circuit has an excessive input, a return is stopped and an output is reduced.
Q340,341	AM+B SW	AM source in active time.
Q400	Preout Mute SW	Front Lch
Q401	Preout Mute SW	Front Rch
Q402	Preout Mute SW	SW/Rear Lch
Q403	Preout Mute SW	SW/Rear Rch
Q404	Preout Mute Driver	(Front/Rear) When this transistor is ON, mute works.
Q405	Preout Mute Driver	(SW) When this transistor is ON, mute works.
Q550	DSI Driver	POWER ON and DSI ON in active time.
Q551	PANEL5V SW	POWER ON in active time.

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q690	SRAM-STBY (MP3110/S)	CD mechanism standby SW.
Q690	SOC Stop (MP5110U/US)	X17 unit standby SW.

● SWITCH UNIT (X16-620x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	LCD Driver	ED1 Driver.
IC2	Remote Control Receiver	
IC4	LED Controller	Programmable LED's brightness. (LCD back light, Key, Rotary encoder, Red, Green, Blue)
IC5	IC2 Output Buffer AMP	
Q1	SW5V	Remote control receiver and buffer AVR.
Q2	Key Input Timing SW	
Q3	VLCD	Display contrast adjuster circuit.
Q200	LED Driver	LCD back light driver. (Red)
Q201	LED Driver	LCD back light driver. (Green)
Q202	LED Driver	LCD back light driver. (Blue)
Q210	LED Driver	Rotary encoder illumination driver. (Red)
Q211	LED Driver	Rotary encoder illumination driver. (Green)
Q212	LED Driver	Rotary encoder illumination driver. (Blue)
Q220	LED Driver	Key illumination driver. (Red)
Q221	LED Driver	Key illumination driver. (Green)
Q222	LED Driver	Key illumination driver. (Blue)

● PROCESSOR UNIT (X17-2000-00) *DPX-MP5110U/US only

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC700	CD Mecha μ -COM USB Host Controller	CD mechanism control. USB decoder and transmitter "Bitstream data".
(IC751)	ROM Collection (Not used)	For IC700.
IC770	Power Control SW	USB power control supply SW with over current detection and protection.
IC771	IC700 Power Supply	Series regulator. (5V to 3.3V)
Q701	SOC Stop Input SW (SOC: System On Chip)	SOC is IC700 When SW is active, SOC is ON.
Q702,703	SW3.3V	POWER ON in active time.
Q704	SRAM Standby SW	CD mechanism SRAM standby control.
Q705	LOE Input SW	CD mechanism loading end detection.

● 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.

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
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: IC500 on X34- (ELECTRIC UNIT)

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing / Operation / Description
1	WIRED REMO	I	Remote control signal input		Pulse width detection
2	CD MOTOR	O	CD motor control	①	Refer to the truth value table
3	CD LOEJ	I/O	CD motor control	①	Refer to the truth value table
4	DRIVEMUTE	O	CD motor driver mute output (When Bolero is connected, this pin in not used)		
5	PON CD	I/O	CD mechanism inner power supply (When Bolero is connected, this pin in not used)		H: ON, Hi-Z: OFF
6	BYTE	-			
7	CNVSS	-			
8	XCIN	-			32768Hz
9	XCOUT	-			32768Hz
10	RESET	-			
11	XOUT	-			12MHz
12	VSS	-			
13	XIN	-			12MHz
14	VCC1	-			
15	NMI	-	Not used		
16	CD LOE LIM SW	I	CD chucking detection		H: Loading completed, L: No disc
17	CD MSTOP	O	CD mechanism μ -com stop (MP3110/S)		H: Normal, L: Mechanism stopped
17	SOC SSTOP	O	Bolero stop (MP5110U/US)		H: Normal, L: SOC (System On Chip) stopped

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing / Operation / Description
18	CD MRST	O	Zipang (CD mechanism μ -com) reset (MP3110/S)		H: CD playing, L: Reset
18	SOC SRST	O	Bolero reset (MP5110U/US)		H: Normal, L: Reset
19	CD MUTE	I	Servo & DAC mute request from Zipang (CD mechanism μ -com) or Bolero		L: Mute requested, H: Normal
20	CD LOS SW	I	CD loading detection		L: Ejection completed
21	CD DISC12 SW	I	12cm disc detection		L: 12cm disc
22	PWIC BEEP	O	Beep output		2kHz / 1kHz
23	NC	-	Not used		Output L fixed
24	S SYS REQ	O	Communication request from system μ -com to Bolero		L: Requested
25	S SOC REQ	I	Communication request from Bolero to system μ -com		L: Requested
26	SI	I/O	SI (System Indicator) control		L: Indicator ON, Hi-Z: Indicator OFF
27	TUN SCL	I/O	Front-end I2C clock input/output		100kHz
27	LED SCL	I/O	Illumination control input/output I2C clock input/output		100kHz
28	TUN SDA	I/O	Front-end I2C data input/output		100kHz
28	LED SDA	I/O	Illumination control input/output I2C data input/output		100kHz
29	LCD SYS DATA	O	Data from system μ -com to LCD		Normal: MAX 1.5625MHz
30	LCD PAN DATA	I	Data from LCD to system μ -com		Normal: MAX 1.5625MHz
31	LCD CL	O	LCD clock output		Normal: MAX 1.5625MHz
32	LCD INH	O	Panel operation control		H: Normal, L: Panel operation stopped (When display goes out, key scan stops)
33	S SYS DATA	O	Data from system μ -com to Bolero		400kHz
34	S SOC DATA	I	Data from Bolero to system μ -com		400kHz
35	S SOC CLK	I	Clock input from Bolero		400kHz
36	RT CCW	I	Rotary input (Counterclockwise)		Pulse width detection 24-pulse/360°, 1-pulse/1-click
37	RT CW	I	Rotary input (Clockwise)		Pulse width detection 24-pulse/360°, 1-pulse/1-click
38	PON PANEL	I/O	PANEL5V control (OFF 11 minutes after ACC OFF)		L: Panel ON, Hi-Z: Panel OFF
39	ROMCOR DET	I	Writing request in ROM correction		H: Possible to rewrite correction data in ROM (I2C open)
39	EPM	I	EPM input in writing Possible to rewrite when level of start-up is Lo		
40	TAP MODE1	-	Not used		
41	TAP MODE2	-	Not used		
42	TAP MODE3	-	Not used		
43	TAP SMOTOR1	-	Not used		
44	LCD CE	I/O	LCD control request		H: Possible to transport data

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing / Operation / Description
45	TAP SMOTOR2	-	Not used		
46	TAP METAL	-	Not used		
47	TAP EQ MUTE	-	Not used		
48	TAP FWD REV	-	Not used		
49	TAP DOLBY B	-	Not used		
50	TAP MS MODE	-	Not used		
51	TAP MUSIC IN	-	Not used		
52	PON MMOTOR	-	Not used		
53	PON D5V	I/O	SW power supply control		L: ON, Hi-Z: OFF
54	PON ILL	I/O	Panel illumination power supply		H: ON, Hi-Z: OFF
55	PON	I/O	Power supply control A8V/SW5V/S7.5V/SMOT/MD5V		Power supply ON: H, Power supply OFF: Hi-Z
56	P CON	O	P.CON control		POWER ON: H, POWER OFF: L, STANDBY source: L
57	ANT CON	O	ANT CON control		TUNER source: H, POWER OFF: L, STANDBY source: L
58	ACC DET	I	ACC detection		ACC exists: L, No ACC: H
59	BU DET	I	Momentary power-down detection		BU exists: L, No BU or momentary power down: H
60	VCC2	-			
61	PWIC STBY	O	Power IC standby		POWER ON: H, POWER OFF: L
62	VSS	-			
63	TAP REEL R	-	Not used		
64	TAP REEL F	-	Not used		
65	PWIC MUTE	O	Power IC mute		Normal: H, STANDBY source or momentary power down: L, TEL mute: L
66	TYPE 1	I	A/D (5 patterns)		
67	PWIC SVR	O	SVR forced discharge control		H: Discharge, L: Normal
68	LX RST	O	Forced reset to slave unit		H: Reset, L: Normal
69	LX CON	O	Start-up request to slave unit		H: Slave unit ON, L: Slave unit OFF
70	LX MUTE	I	Mute request from slave unit		H: Mute ON, L: Mute OFF
71	LX REQ M	O	Communication request to slave unit		
72	LX REQ S	I	Communication request from slave unit		
73	eala LV	I/O	eala control		H: eala Hi, Hi-Z: eala Lo or OFF
74	Bass LV	I/O	eala Bass control		H: eala Bass Hi, Hi-Z: eala Bass Lo or OFF
75	Bass EN	I/O	eala Bass ON/OFF		H: eala Bass ON, Hi-Z: eala Bass OFF
76	eala EN	I/O	eala ON/OFF		H: eala ON, Hi-Z: eala OFF
77	EVOL SDA	I/O	Data output from system μ -com to I2C		Communication speed: 200kHz-400kHz
77	E2P SDA	I/O	I2C clock for ROM correction		Communication speed: 200kHz-400kHz
78	EVOL SCL	I/O	Clock output from system μ -com to I2C		Communication speed: 200kHz-400kHz
78	E2P SCL	I/O	I2C data for ROM correction		Communication speed: 200kHz-400kHz

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing / Operation / Description
79	ILLUMI DET	I	Dimmer illumination detection		L: ON, H: OFF
80	LINE MUTE	I	Line mute detection		TEL mute: Below 1V, NAVI mute: Over 2.5V
81	MUTE 0	O	IC-2 front mute control		L: Mute ON, Time constant isolated setting: 10ms, H: Normal
82	MUTE 1	O	IC-2 rear mute control		L: Mute ON, Time constant isolated setting: 10ms, H: Normal
83	MUTE 2	O	IC-2 SW mute control		L: Mute ON, Time constant isolated setting: 10ms, H: Normal
84	MUTE SA	I/O	IC-2 mute-A control / Spectrum analyzer mute		L: Mute ON, Time constant isolated setting: 0.5ms, Hi-Z: Normal
85	SA CLK	O	Clock output for spectrum analyzer in IC2-6		
86	SA IN	I	AD input for spectrum analyzer in IC2-6		
87	SA RST	O	Reset output for spectrum analyzer in IC2-6		L: Reset
88	PWIC DC DET	I	DC offset detection		
89	MUTE PRE F	O	External preout mute-F		0 bit or momentary power down: L
90	MUTE PRE R/SW	O	External preout mute-SUB (MUTE_2 shock noise countermeasure)		0 bit or momentary power down: L
91	TUN IFC OUT	I	Front-end IFC-OUT input		H: Station exists, L: No station
92	PON AM	I/O	AM+B power supply control		H: ON when AM is received, Hi-Z: OFF in other sources
93	TUN SMETER	I	S-meter voltage detection		
94	AVSS	-			
95	NC	-			
96	VREF	-	A/D analog reference voltage		Possible to switch A/D inside this μ -com (Connected to BU5V)
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		

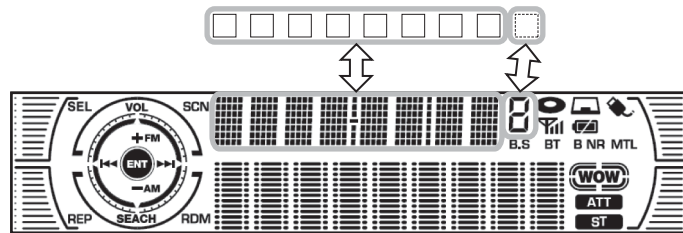
Truth value table

① CD motor control

	CD MOTOR (pin2)	CD LOEJ (pin3)
Standby	L	L
Eject	H	H
Load	H	L
Brake	H	Hi-z

TEST MODE

■ Example



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

A symbol “■” in the key column indicates that the key should be pressed and held.

■ 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 30 minutes.

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

Do not display “CODE_OFF”, “CODE_ON” and “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.

In the Test mode, do not write security code by using a security jig.

In the Test mode, do not write serial number by using a serial-number-writing jig.

In the Test mode, do not write the detection information in the E2PROM even if a DC error is detected.

Do not operate the DEMO mode in the Test mode, CD Mechanism Error Log Information Clear Mode, or DC Error Detection Information Clear Mode.

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

In the Test mode, the forced disc ejection operation is prohibited.

■ How to clear the Test mode

Procedure	Note
Reset, Momentary power down, Acc OFF and Power OFF	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.)
LOUD	OFF
CRSC	OFF regardless of having/not having the switching function.
AUX	ON
System Q	NATURAL
Beep	Sound on any time when the key is pressed briefly.
Preout	Rear
SWPRE	SUB WOOFER

TEST MODE

Description	Default values
Spectrum analyzer	“Peak Hold”
DSI	ON
GUID	ATT
Variable LED	White LED is used in all of three systems (i.e, Backlight, and Around key and knob) (R=9, G=9, B=9)
S-E (Eala)	OFF

■ 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 display	TYPE indicates μ -com destination, and indicates condition of the destination terminal in real-time.
	Development ID condition display	Development code – Version (μ -com) * Pressing key [1] makes all lights go on when this display is being shown.
2	Serial No. display	Serial No. displayed (8 digits)
3	Power ON time display	The 00~50 is displayed for “xx”. When less than 1 hour, displayed by increments of 10 minutes.
		The 00001-10922 is displayed for “xxxxx”. MAX 10922 (hours)
■3		While Power ON time is displayed, press and hold for 2 seconds or longer to clear Power ON time.
4	Pressing key [4] is to feed the items on the display. The CD operation time is displayed.	
	Disc operation times display.	The 00~50 is displayed for “xx”. When less than 1 hour, displayed by increments of 10 minutes. CD=CDT
		The 00001-10922 is displayed for “xxxxx”. MAX 10922 (hours) CD=CDT
■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	Pressing key [5] is to feed the items on the display. The CD EJECT times is displayed.	
■5	Disc Eject times display	Disc Eject times display. MAX 65535 (times) CD=EJT
		While disc EJECT times is displayed, press and hold for 2 seconds or longer to clear disc EJECT times. (This is to clear only the display media.)
6		
■6	Invalid	
FM	ROM correction version display	S : R 0 1 2 3
		S : R E R R
		S : R - - - -
		S : R * * * *
	Bolero ROM correction version display * Only DPX-MP5110U is valid	M : R 0 1 2 3
		M : R E R R
		M : R - - - -
		M : R * * * *

TEST MODE

Key	Description of display		Description
■AM	ROM data transfer	□ □ □ □ □ □ □ □ □	
▶▶I	Audio data initialization	A U D □ 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 □	Power is turned OFF forcibly because the Security Code is not yet written.
		P O F F □ P N L □	Forced power OFF by communication error between system μ-com and panel.
			While the forced power OFF data is displayed, press and hold for 2 seconds to clear the data.
■I◀◀			
▶▶I	Disc Information display mode ON/OFF	□ □ □ □ □ □ □ □ □	Refer to CD information display mode for what are displayed.
■▶▶I			While in information display mode, press and hold for 2 seconds to clear selected source.

• CD information display mode

Key	Description of display		Description
FM (forward rotation) AM (reverse rotation)	I◀◀/ ▶▶I	CD mechanism error log display	M C E R R 1 : X X □ XX: Error number. The “- -” is displayed in case there is no error.
			M C E R R 2 : X X □ XX: Error number. The “- -” is displayed in case there is no error.
			M C E R R 3 : X X □ XX: Error number. The “- -” is displayed in case there is no error.
	I◀◀/ ▶▶I	CD load error information display	L D E R R 1 : X X □ XX: The number of errors. The “- -” is displayed in case there is no error.
			L D E R R 2 : X X □ XX: The number of errors. The “- -” is displayed in case there is no error.
	I◀◀/ ▶▶I	CD ejection error information display	E J E R R 1 : X X □ XX: The number of errors. The “- -” is displayed in case there is no error.
			E J E R R 2 : X X □ XX: The number of errors. The “- -” is displayed in case there is no error.
			E J E R R 3 : X X □ XX: The number of errors. The “- -” is displayed in case there is no error.
			E J E R R 4 : X X □ XX: The number of errors. The “- -” is displayed in case there is no error.
	I◀◀/ ▶▶I	CD time code error count information display (Missing counts)	C N T □ L O S E □ CD time code error count information (Missing counts) mode is display.
			C D D A □ □ : X X □ XX: The number of errors (Max. 99). The “- -” is displayed in case there is no error.
			C D R O M □ : X X □ XX: The number of errors. The “- -” is displayed in case there is no error.
	I◀◀/ ▶▶I	CD time code error count information display (Count is not updated.)	C N T □ S T A Y □ CD time code error count information (Count is not updated) mode display.
			C D D A □ □ : X X □ XX: The number of errors (Max. 99). The “- -” is displayed in case there is no error.
			C D R O M □ : X X □ XX: The number of errors. The “- -” is displayed in case there is no error.

TEST MODE

■ Test mode specifications in Tuner source

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

Status	Description of display	Description
Front-end E2PROM data error	T N E 2 P N G	E2PROM in the front-end has its default values (Uncertain values) as they are. This is to indicate that the E2PROM has been shipped without undergoing the adjustment process or any other process.
Front- end communication error	T N C O N N G	Communication with front-end is not possible.
Destination mismatch	T N T Y P N G	The destination of the front-end E2PROM is inconsistent with that of the unit itself.

• Tuner preset operation

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

• K3I forced switching

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

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

• FST adjustment mode

Perform FST soft-mute adjustment.

Key	Note
■▶II	Enter the FST adjustment mode (by pressing and holding the key for 1 second). First step should be the “Soft-mute adjustment”.

* In the FST adjustment mode, frequency should be switched to 98.3MHz

Operations in the FST adjustment mode are as follows:

Key	Description of display	Description
FM (UP) AM (DOWN)	Soft-mute adjustment S M D - X	0 → 7
	Seek Stop Level adjustment (Auto) A T N V	0.00 (V) → 5.00 (V) Normal (Local OFF)
	Seek Stop Level adjustment (Manual) M N N V	0.00 (V) → 5.00 (V) Normal (Local OFF)
■▶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 1 9 8 . 3 A 4	Clear the FST adjustment mode (Returns to normal display and the test mode is retained)

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

TEST MODE

■ Test mode specifications in CD source

Display mode default: P-Time

• Procedure in CD-DA media (KTD-02A)

Key	Description of display	Description
▶▶	Track up procedure Tr - X X : :	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. (when playing back the compressed file discs).
◀◀	Track down procedure Tr - X X : :	Goes down by 1 track from the currently played track.
1	Jump procedure	Jump to Track/File No.28 (Scratch 0.7mm for music line vibration testing)
2	Jump procedure	Jump to Track/ File 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 (DXM-6E20) and mechanism version. (In the USB model, pressing key [3] while the display in the left has been shown is to change the indicator to show the servo information. Pressing other key is to show the normal display.)
	Information display Servo version (MP5110U/US) S E R V : .	Display of mechanism servo version. (Pressing key [3] while the display in the left has been shown is to change the indicator to show the version of the boot program.)
	Information display Boot program version (MP5110U/US) B O O T : .	The version of boot program is indicated. Pressing key [3] while the indication in the left has been shown is to change the indicator to show the normal indication.)
6	Jump procedure	Jump to No.15. Set the volume value to 25 (2V PRE). (For 20Hz 0dB DC protection error operation FCT checking)

KTD-02A is used as CD media.

• Specification to show the display inherent to the compressed media

When playing back MP3 / WMA / AAC disc, the file format is displayed (for 1 second) just before starting playing back each file.

Status	Description of display	Description
In the case of playing back MP3 file	M P 3 : : : :	The file that is to be played back is MP3 file.
In the case of playing back WMA file	W M A : : : :	The file that is to be played back is WMA file.
In the case of playing back AAC file	A A C : : : :	The file that is to be played back is AAC file.

■ Audio-related test mode

Procedure	Note
To press [AUD] key briefly (main unit) [AUD] key, [*] key (on the remote controller)	Enter the Audio Adjustment mode. (Initial items should be Fader, and then, Balance → Bass Level → Middle Level → Treble Level → *SW Level → SystemQ → HPF Front → HPF Rear → LPF Sub Woofer. (Then after, any adjustment can be done))

* SW Level is displayed when the item is valid.

* In SW Phase item, SWPRE is set to SW, and SWLPF SW is set to other parameter than Through.

Audio adjustment items (include both Audio Function mode and Audio Setup mode).

TEST MODE

Procedure	Item	Procedure	Description
For item forwarding procedure, press [AUD] key and [FM] key briefly	Fader	[VOL] knob and [◀◀] / [▶▶] key and [FM] / [AM] key	Adjust to 3 steps of R15 ↔ 0 ↔ F15. (Default value: 0)
	Balance		Adjust to 3 steps of L15 ↔ 0 ↔ R15. (Default value: 0)
	Bass Level		Adjust to 3 steps of -8 ↔ 0 ↔ +8. (Default value: 0)
	Middle Level		Adjust to 3 steps of -8 ↔ 0 ↔ +8. (Default value: 0)
	Treble Level		Adjust to 3 steps of -8 ↔ 0 ↔ +8. (Default value: 0)
	HPF Front/Rear	[VOL] knob and [FM] / [AM] key	Adjust to 2 steps of Through ↔ 180Hz (or 220Hz). (Default value: Through)
	LPF Sub woofer		Adjust to 2 steps of Through ↔ 60Hz (or 50Hz). (Default value: Through)
	Sub Woofer Phase		Adjust to 2 steps of Reverse ↔ Normal. (Default value: Normal)
	Volume Offset		Adjust to 2 steps of -8 ↔ 0. (Default value: 0) Adjust to 3 steps of -8 ↔ 0 ↔ +8. (Default value: 0) (AUX)
	Loudness		Adjust to 2 steps of OFF ↔ ON. (Default value: OFF)
	2ZONE		Adjust to 2 steps of OFF ↔ ON. (Default value: 0)

* Continuous forwarding by remote controller is prohibited.

* Bass f/Bass Q/Bass EXT/Middle f/Middle Q/Treble f does not appear in the audio adjustment.

■ S-E (eala) related test mode

Procedure	Note
Press [S-E] key briefly (main unit)	Run the test with the following order of sequence. (① → ② → ③ → ④ → ⑤ → ① → ...)

Order of sequence	Setting Value		Display	Change the assigned Track and VOL at the same time when setting up the S-E
	S-E (Eala) LV	S-E (Eala) Bass		
①	Off	Off	S-E OFF	VOL=30
②	High	Off	LV High	
③	Low	Off	LV Low	
④	Off	High	Bass High	
⑤	Off	Low	Bass Low	

* Note: For 5 seconds after the establishment of CD source, the switching of S-E is not displayed. (However, the value changes when the key is pressed.)

■ Menu-related test mode

Procedure	Note
Press [M.JOG] key briefly (main unit) [DNPP/SBF] key, [DIRECT] key (remote control)	Continuous forwarding by remote control is prohibited.

■ Dual Zone-related test mode

Procedure	Note
Press and hold [ATT/■TI] key in other mode than Standby (main unit)	To turn ON/OFF Dual Zone. (Default value: OFF)

■ Backup current measurement

Procedure	Note
While ACC OFF (Back Up ON), Reset	MUTE terminal is turned OFF after 2 seconds, not after 15 seconds. (During this time, the CD mechanism does not function.) Turning the terminal OFF in 2 seconds makes the system to be in low power consumption condition.

TEST MODE

■ Initialization of Audio related setting values

Procedure	Display	Note
Press [▶▶] key briefly in the standby source	"AUD INIT"	Audio setting value is re-set to default value in the Test mode.

■ Preout switching

Procedure	Note
Press [ATT] key for 1 second in Standby source	Switch PREOUT Rear ↔ Sub Woofer by pressing the key for 1 second.

■ Switching R, G, and B displays

Procedure	Note
Press [COL] key briefly in the Standby source	3 systems (Around knob, LCD back light and Key) change in the following sequence of order; → White → R (Red) → G (Green) → B (Blue) → White.

■ Specification of LED rank (KEY illumination)

Procedure	Note
Press and hold [COL] key in the Standby source	The default value that allows the use of both of the rank F3 and F4 of LED shall be written in EEPROM.

* Pressing [COL] key clears the specification of LED rank.

Key	Description of display	Description
▶▶	Track up procedure [L] [E] [D] [] [F] [4] [] [] []	Every time when the key is pressed, the track changes. F4 (Default value) ↔ F3 Display F4.

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

Status	Display	Description
While pressing and holding [2] key and [5] key, reset-start.	[C] [L] [R] [] [O] [] [] [] []	At normal termination
	[C] [L] [R] [] [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
	CD load error information display
	CD ejection error information display
	CD time code error count information display (missing count).
	CD time code error count information display (count is not updated).
Service information	Power ON time display
	CD operation time display
	CD EJECT times display
	Forced Power OFF information display
DC error information	DC error 1 display (Provides information on whether there is an improper connection or another error)
	DC error 2 display (Provides information on the times of capacitor leaks)

TEST MODE

■ Clearing DC error detection information (E2PROM data clearing)

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

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

Procedure	Display	Description
While pressing and holding [3] key and [6] key, reset-start.	D C □ E R R □ □ □	When DC error is detected (when either one of capacitor leak is leaking, or an improper connection or other error is detected)
	D C □ O K □ □ □ □	When DC error is not detected (when none of capacitor leak, no improper connection or other error is detected)
1	D C 1 □ E R R □ □ □	When improper connection or other DC errors are detected.
	D C 1 □ O K □ □ □ □	When improper connection or other DC errors are detected.
■1	D C 1 □ O K □ □ □ □	When detecting improper connection or other DC errors, clears detection data. (Clear EEPROM)
2	D C 2 □ 4 □ □ □ □ □	Capacitor leak detection period display of the detected times of capacitor leaks. (0~4)
■2	D C 2 □ 0 □ □ □ □ □	Capacitor leak detection period to clear the times of the detections. (Clear EEPROM)

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

■ FM/AM channel space switching

Procedure	Note
While Power OFF, pressing and holding [1] key and [5] key, and press [SRC] key to Power ON	FM200kHz/AM10kHz ↔ FM50kHz/AM9kHz FM50kHz/AM10kHz ↔ FM200kHz/AM10kHz

■ 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 with E2PROM

Procedure	Description
While pressing and holding [1] key and [3] key, reset-start	Enters the Test mode
Press [M.JOG] key briefly	Enter the Menu mode.
Press and hold [AUD] key for 1 second or longer	Enter the Security Registration mode.
[FM] / [AM] / [◀◀] / [▶▶] key	Input the code. FM: Number up / AM: Number down / [◀◀] : Cursor to the left / [▶▶] : Cursor to the right
Press and hold [AUD] key for 3 second or longer	“RE-ENTER” is displayed.
[FM] / [AM] / [◀◀] / [▶▶] key	Inputs the code again. FM: Number up / AM: Number down / [◀◀] : Cursor to the left / [▶▶] : Cursor to the right
Press and hold [AUD] key for 3 second or longer	“APPROVED” is displayed.
Reset, Momentary power down, ACC OFF, Power OFF, panel removed	Cancel the Test mode.

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

TEST MODE

■ ROM data transfer process

Procedure	Display	Description
While pressing and holding [1] key and [3] keys, reset-start	□ □ □ □ : □ □ □ □ □	All lights ON.
Press [M.JOG] key briefly (MENU)	R O M □ R e a d □	Menu mode
Press [◀◀] key or [▶▶] key briefly	R O M □ R e a d □	Front-end → Mother. Data transfer processing.
	R O M □ W R T □	Mother → Front-end. Data transfer processing.
(In the above ROM READ status), [AUD] key (2 seconds)	R e a d □ □ □ □ □	Front-end → Mother. ROM data is being transferred.
	R e a d □ O K □	Front-end → Mother. ROM correction transfer and Security and other data is OK.
	R e a d □ O K 2 □	Front-end → Mother. Security and others data transfer is OK.
	R e a d □ N G □	Front-end → Mother. ROM data transfer is NG.
(In the above ROM WRT status), [AUD] key (2 seconds)	W R T □ □ □ □ □	Mother → Front-end. ROM data is being transferred.
	W R T □ □ O K □	Mother → Front-end. ROM correction and Security and others data transfer is OK.
	W R T □ □ O K 1 □	Mother → Front-end. ROM correction data transfer is OK.
	W R T □ □ O K 2 □	Mother → Front-end. Security and others data transfer is OK.
	W R T □ □ N G □	Mother → Front-end. ROM data transfer is NG
(In every status of ROM data [M.JOG] key transfer processing)	□ □ □ □ : □ □ □ □ □	Clear from ROM correction data transfer processing mode

This function is used to transfer E2PROM data (ROM correction, security and other data) into the E2PROM of the backup mother in case of the front-end failure and to transfer those data back into the front-end from the E2PROM of the backup mother after the replacement of the front-end.

Refer to “ROM data transfer process” sheet for the details of the other security data.

ROM DATA TRANSFER PROCESSES

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

■ Overview

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

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

■ Overview of specifications

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

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

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

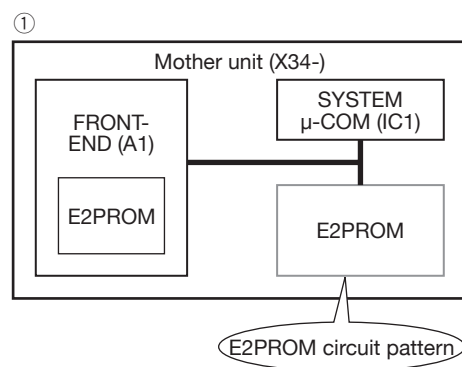
■ Data to be copied

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

■ Operation procedure

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

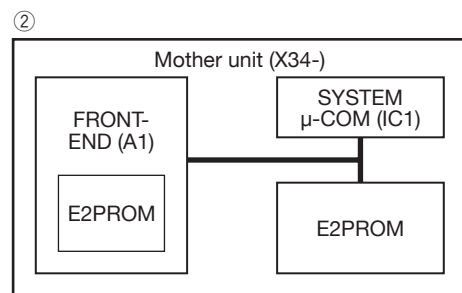
1. In case of replacing front-end (A1) without an applicable ROM correction.
2. In case of replacing front-end (A1) with an applicable ROM correction.
3. In case of applying new ROM correction at the same time when front-end (A1) is replaced. (No ROM correction has been carried out.)



Install new E2PROM.

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

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



ROM DATA TRANSFER PROCESSES

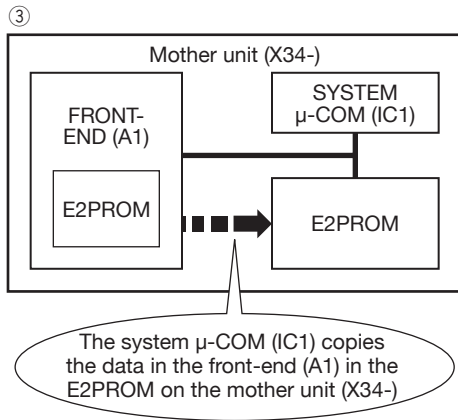
Turn power on.

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

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

Press [◀◀] (or ▶▶) . (Select READ)

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



In case of [2]

READ OK R-OK

In case of [1] or [3]

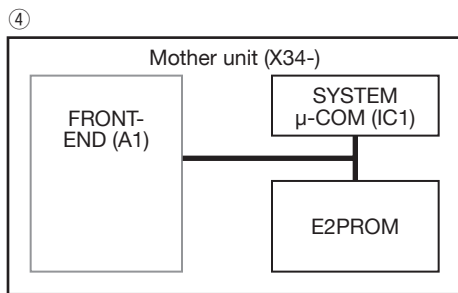
READ OK2 R-O2



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

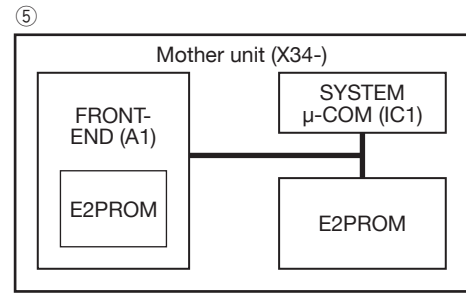
Turn power off.

Remove front-end (A1).



Install new front-end (A1).

No ROM correction or other data status.



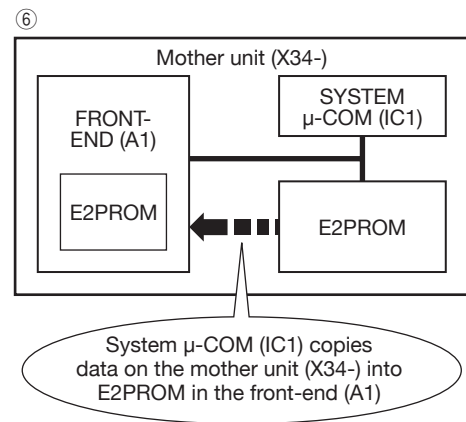
Turn power on.

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

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

Press [◀◀] (or ▶▶) . (Select WRT)

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



In case of [2] or [3]

WRT OK W-OK

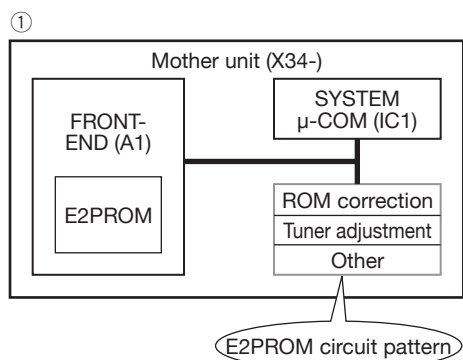
In case of [1]

WRT OK2 W-O2

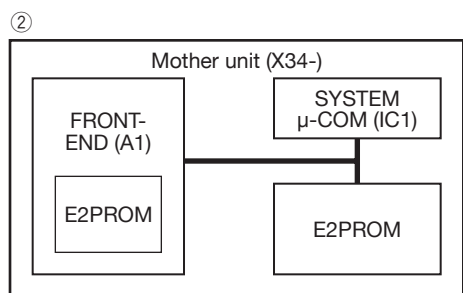
Press [▶] key. (Exit ROM data transfer mode.)

ROM DATA TRANSFER PROCESSES

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



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



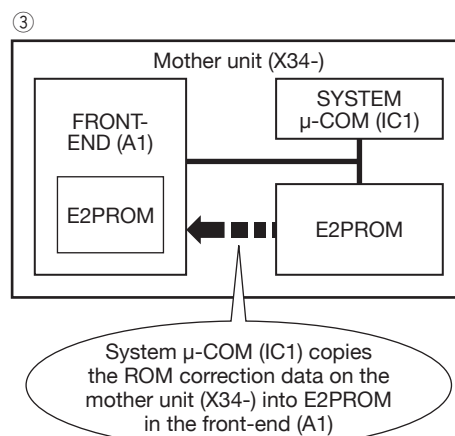
Turn power on.

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

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

Press [◀◀] (or ▶▶) . (Select WRT)

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



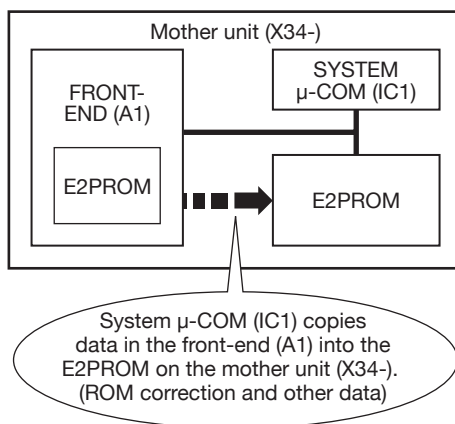
In case of [4]

In case of [5]

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

Press [◀◀] (or ▶▶) . (Select READ)

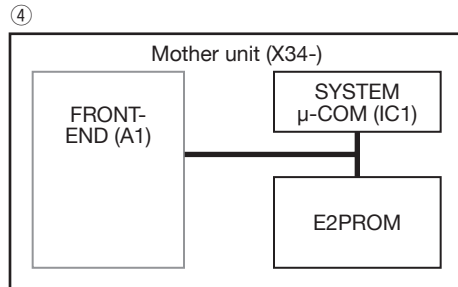
Press [▶▶] key for 1 second or longer. (Data transfer)



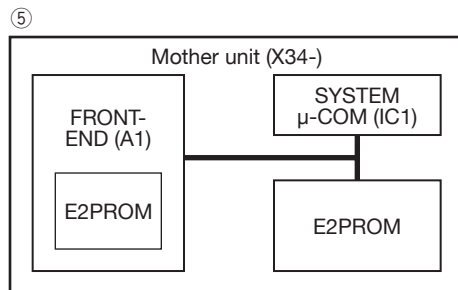
ROM DATA TRANSFER PROCESSES

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

Remove front-end (A1).



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



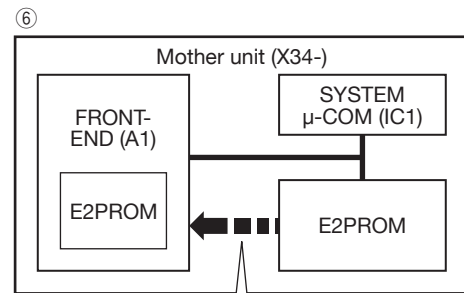
Turn power on.

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

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

Press [◀◀] (or [▶▶] .) (Select WRT)

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



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

WRT OK

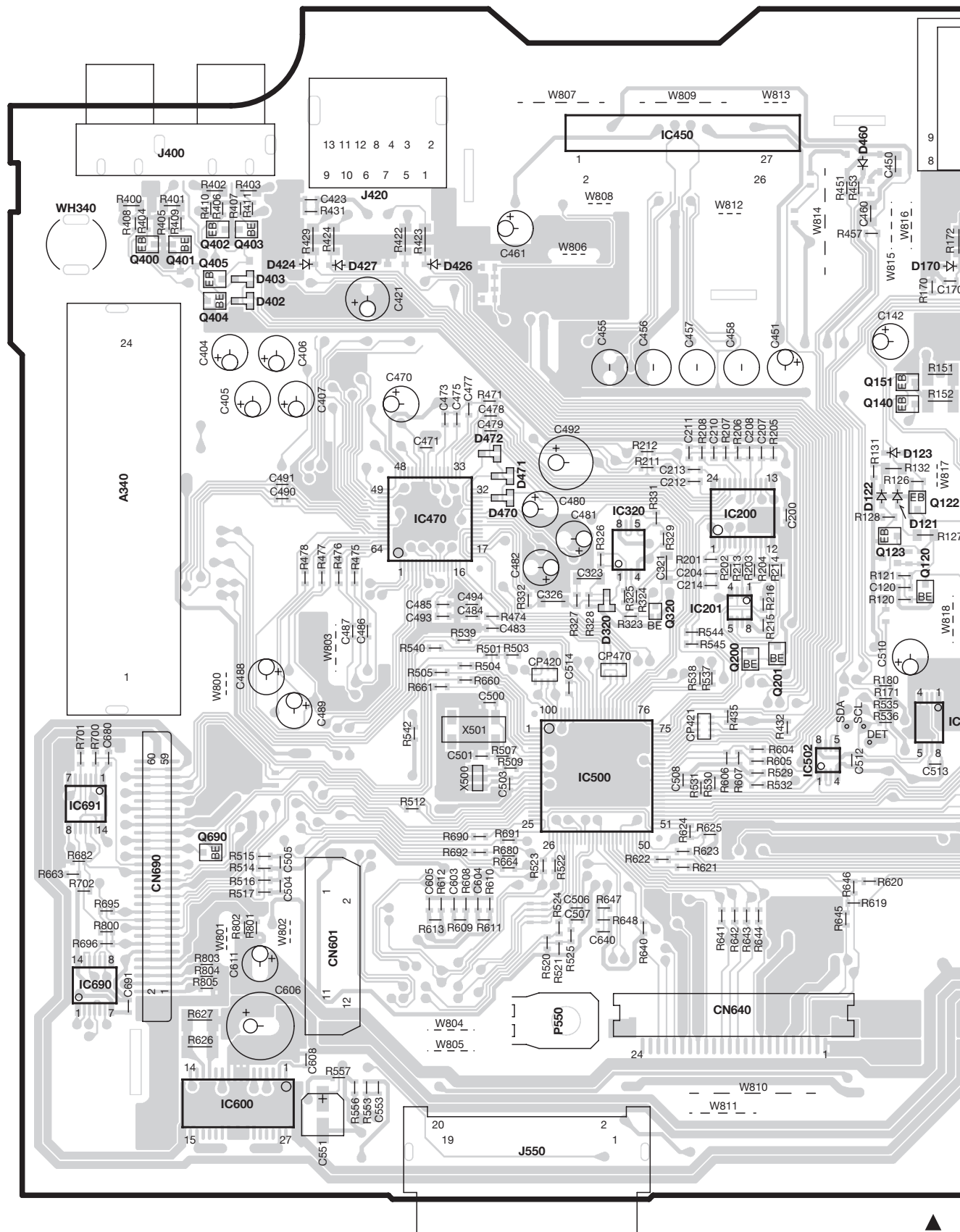
W-OK

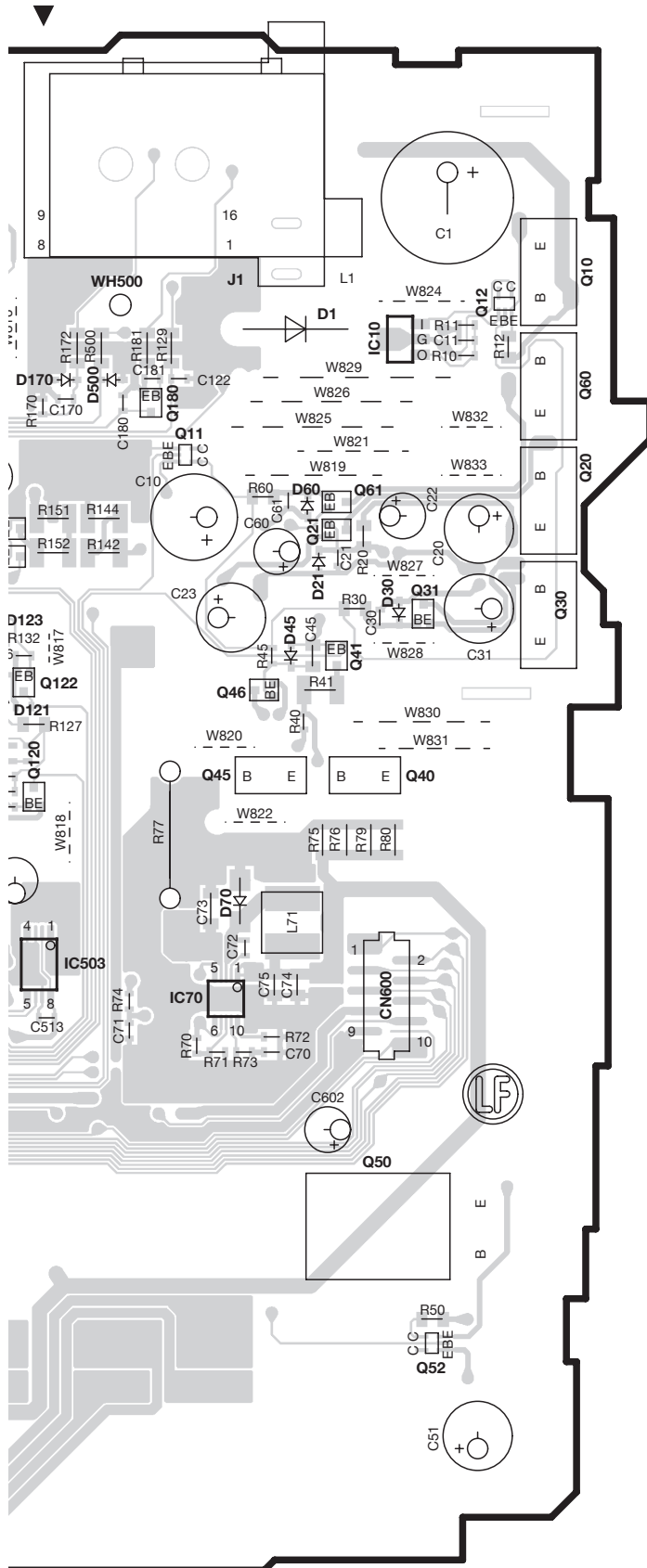
Press [▶||] key. (Exit ROM data transfer mode.)

DPX-MP3110/MP3110S
DPX-MP5110U/MP5110US

PC BOARD (COMPONENT SIDE VIEW)

ELECTRIC UNIT X34-573x-xx (J76-0493-02)





X34-573x-xx

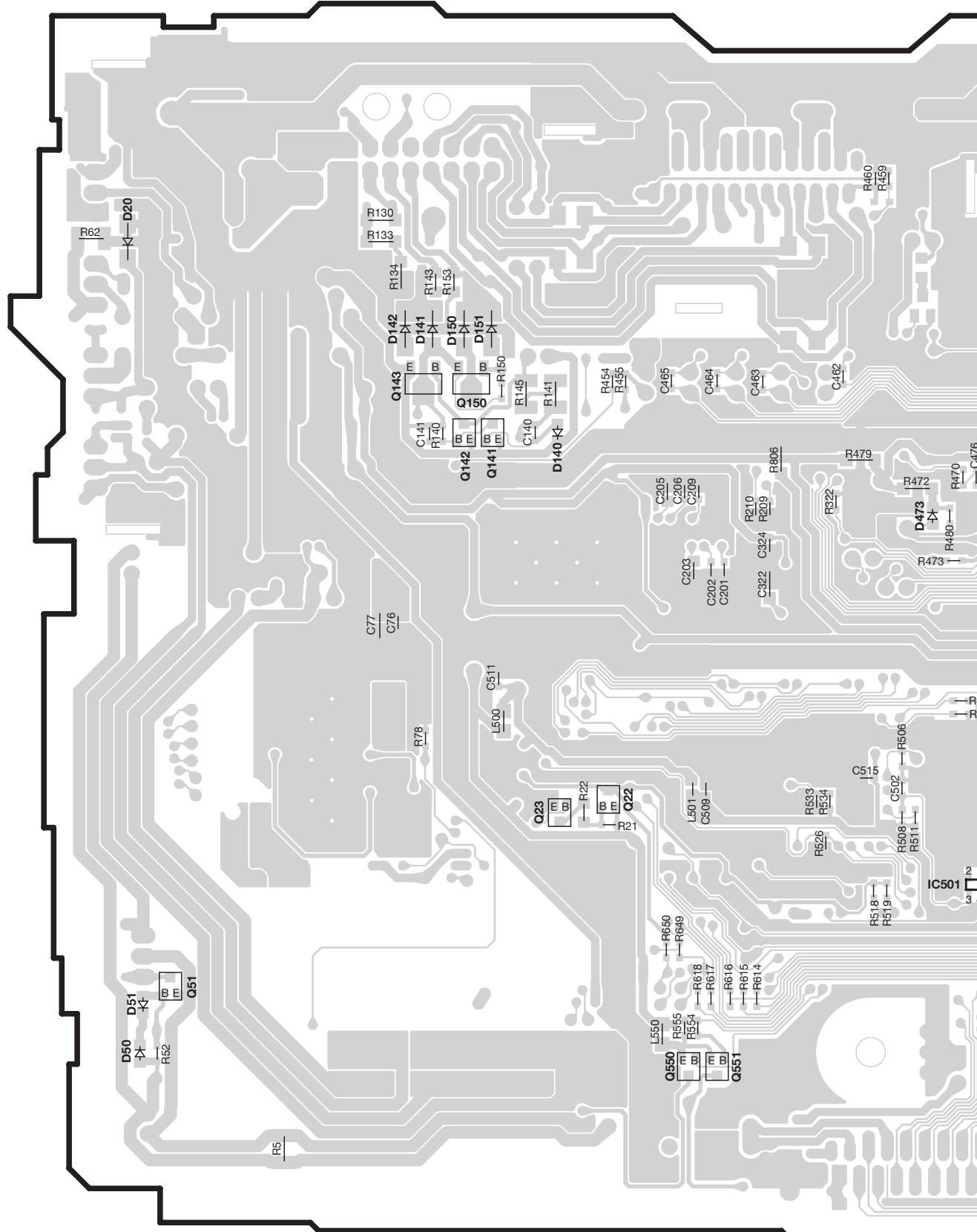
Ref. No.	Address
IC10	2G
IC70	5F
IC200	4D
IC201	4D
IC320	4D
IC450	2D
IC470	4C
IC500	5D
IC502	5E
IC690	6A
IC691	5A
Q10	2H
Q11	3F
Q12	2G
Q20	3H
Q21	3G
Q30	3H
Q31	3G
Q45	4F
Q46	4F
Q50	5G
Q52	6G
Q120	4E
Q122	4F
Q123	4E
Q140	3E
Q151	3E
Q180	3F
Q200	4D
Q201	5E
Q320	4D
Q400	3B
Q401	3B
Q402	3B
Q403	3B
Q404	3B
Q405	3B
Q690	5B

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

DPX-MP3110/MP3110S
DPX-MP5110U/MP5110US

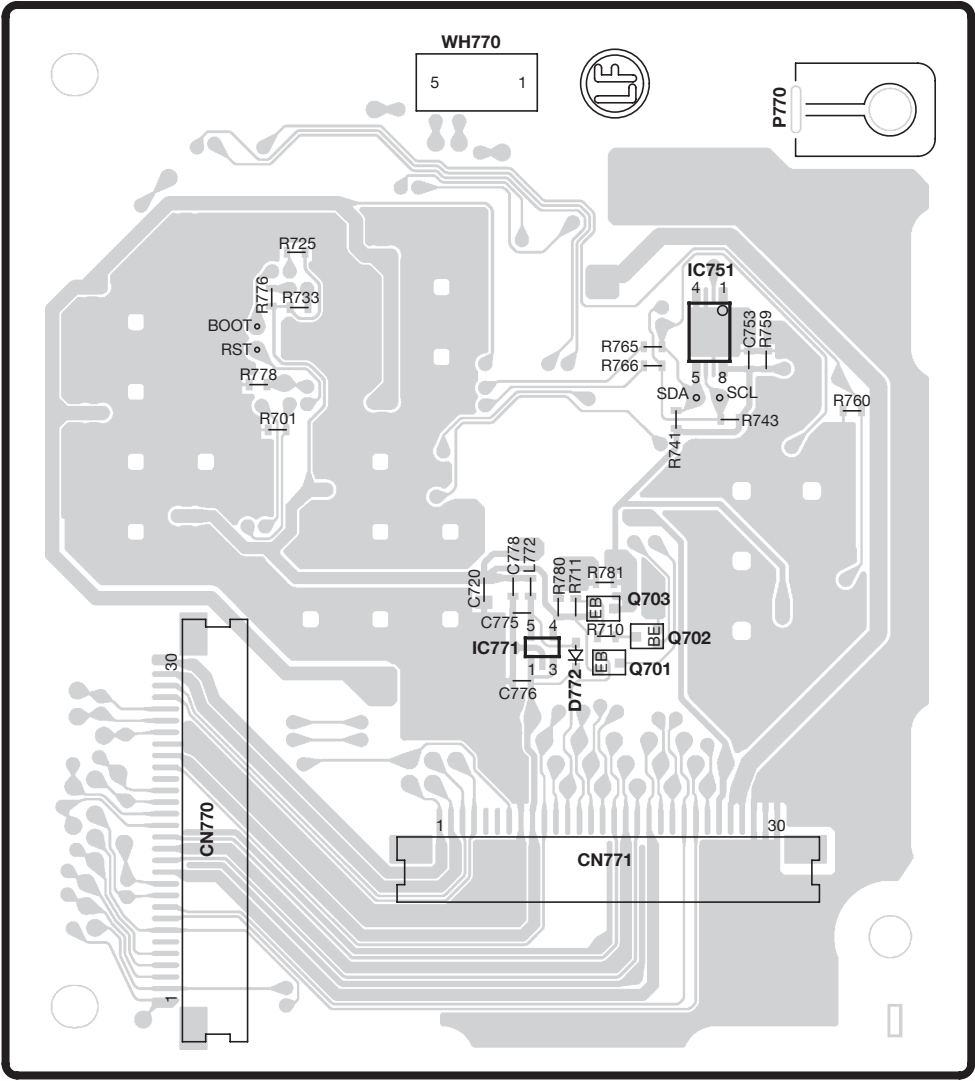
PC BOARD (FOIL SIDE VIEW)

ELECTRIC UNIT X34-573x-xx (J76-0493-02)



PC BOARD (COMPONENT SIDE VIEW)

PROCESSOR UNIT X17-2000-00 A/2 (J76-0492-02) *DPX-MP5110U/US only

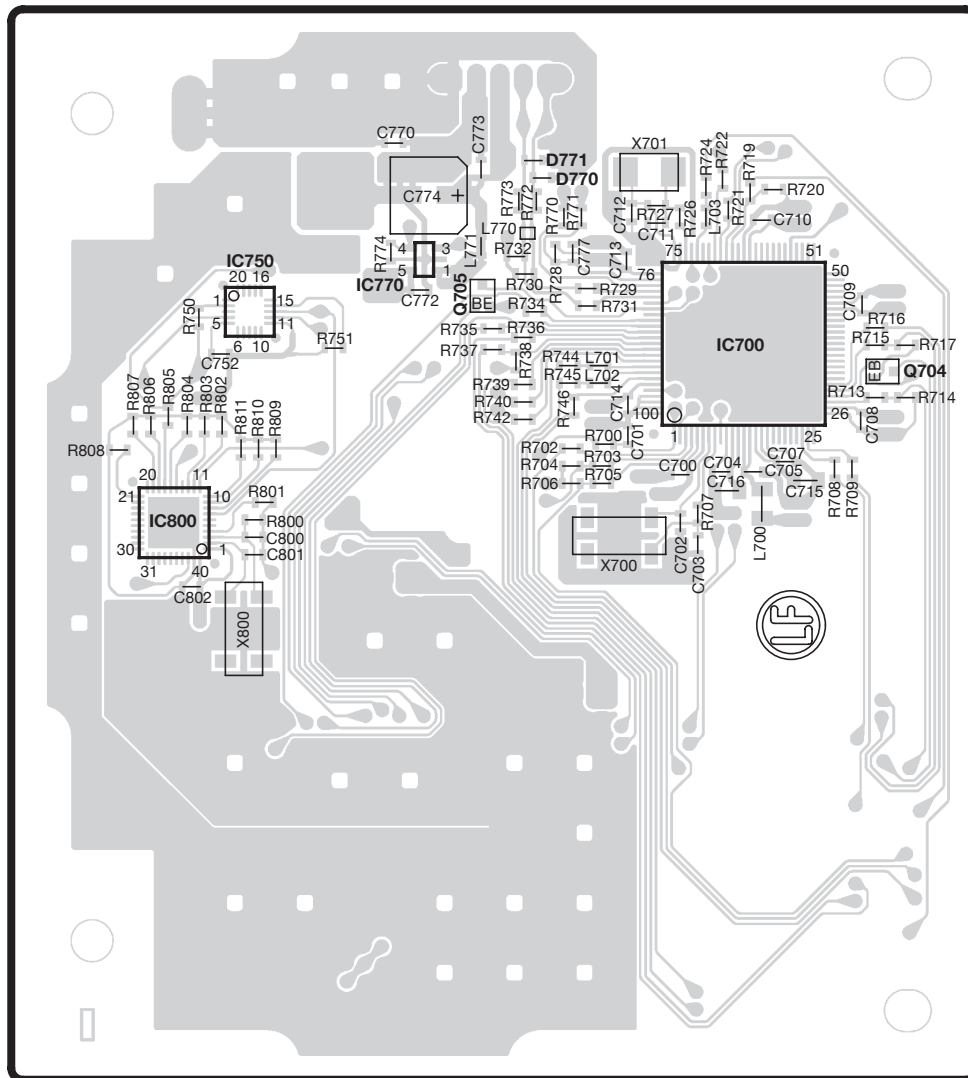


X17-2000-00	
Ref. No.	Address
IC751	2X
IC771	4W
Q701	4X
Q702	4X
Q703	3X

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

PC BOARD (FOIL SIDE VIEW)

PROCESSOR UNIT X17-2000-00 A/2 (J76-0492-02) *DPX-MP5110U/US only



X17-2000-00

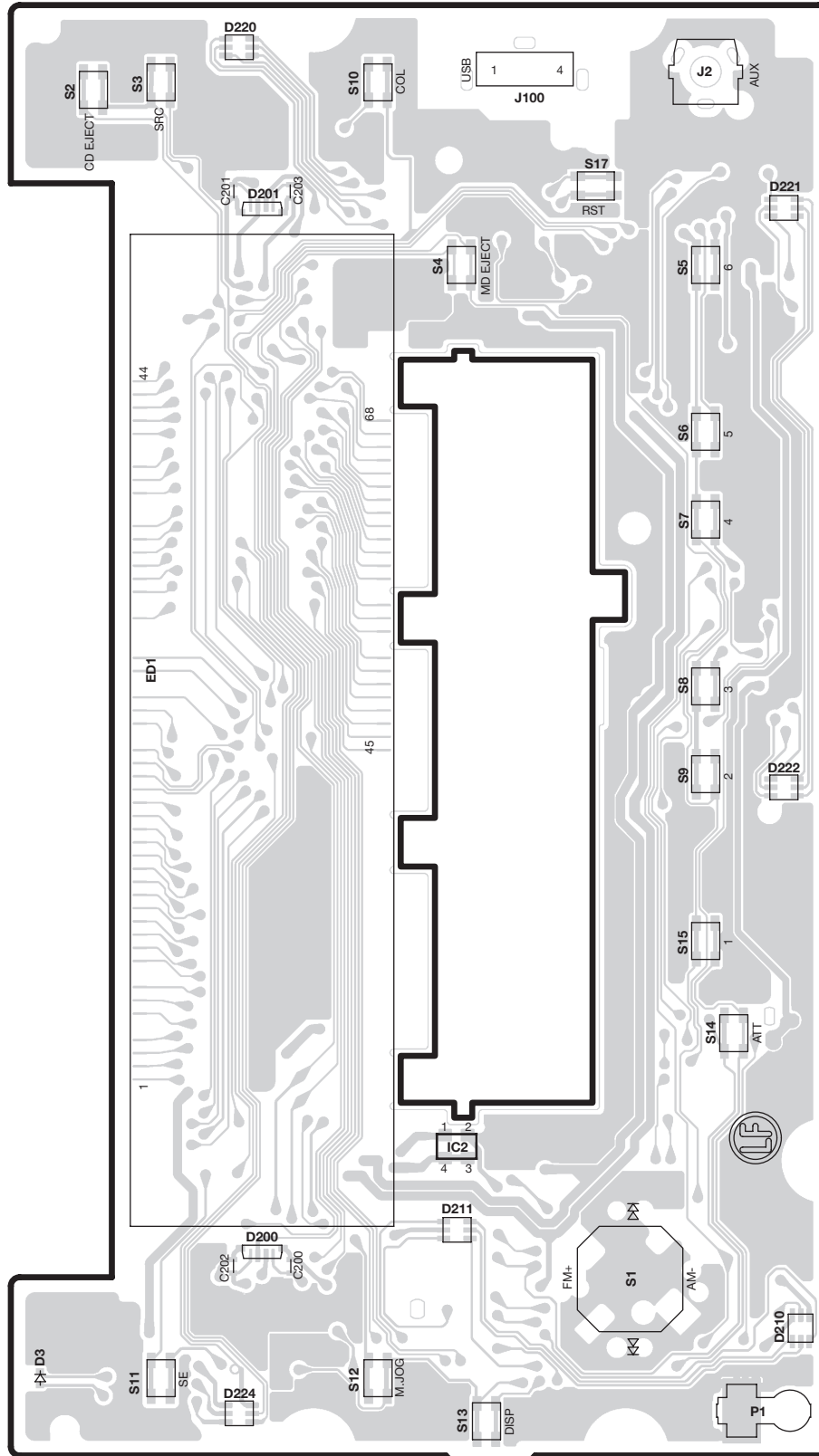
Ref. No.	Address
IC700	3AC
IC770	2AA
Q704	3AC
Q705	2AB

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

DPX-MP3110/MP3110S
DPX-MP5110U/MP5110US

PC BOARD (COMPONENT SIDE VIEW)

SWITCH UNIT X16-620x-xx (J76-0490-12)



X16-620x-xx

Ref. No.	Address
IC2	6AG

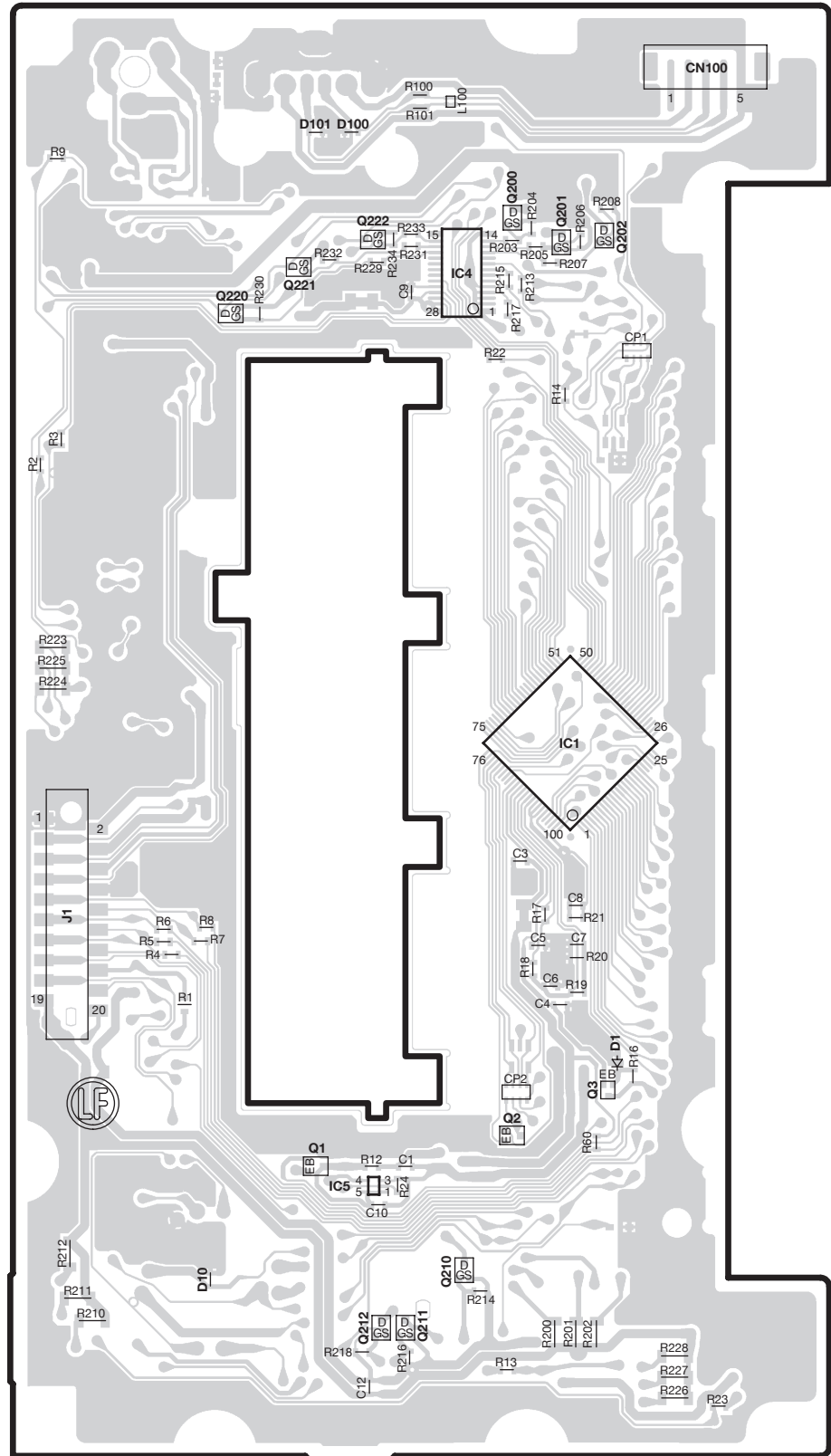
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (FOIL SIDE VIEW)

SWITCH UNIT X16-620x-xx (J76-0490-12)

X16-620x-xx

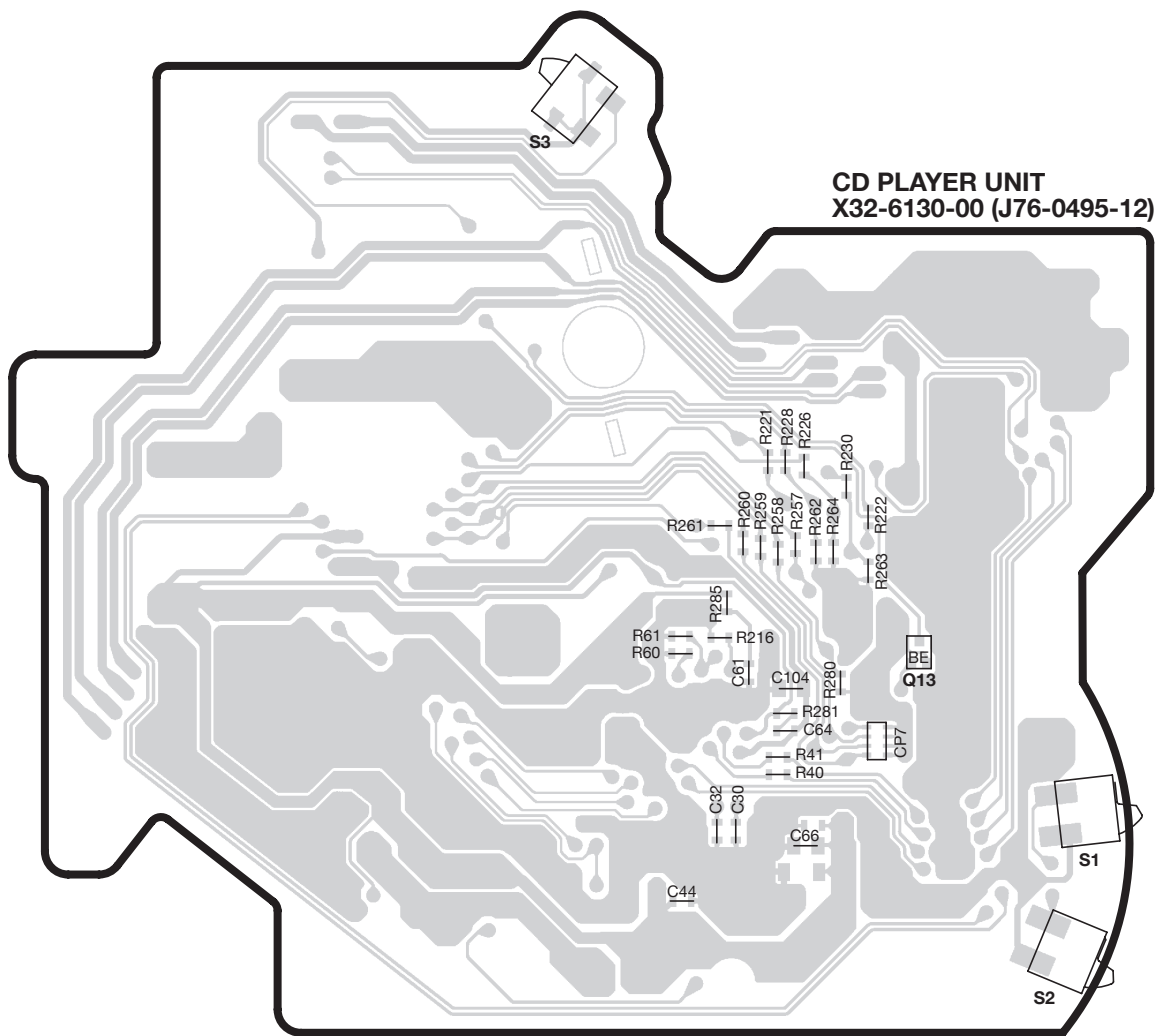
Ref. No.	Address
IC1	4AM
IC4	2AL
IC5	6AL
Q1	6AL
Q2	5AM
Q3	5AM
Q200	2AM
Q201	2AM
Q202	2AM
Q210	6AL
Q211	6AL
Q212	6AL
Q220	2AL
Q221	2AL
Q222	2AL



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

DPX-MP3110/MP3110S
DPX-MP5110U/MP5110US

PC BOARD (COMPONENT SIDE VIEW)

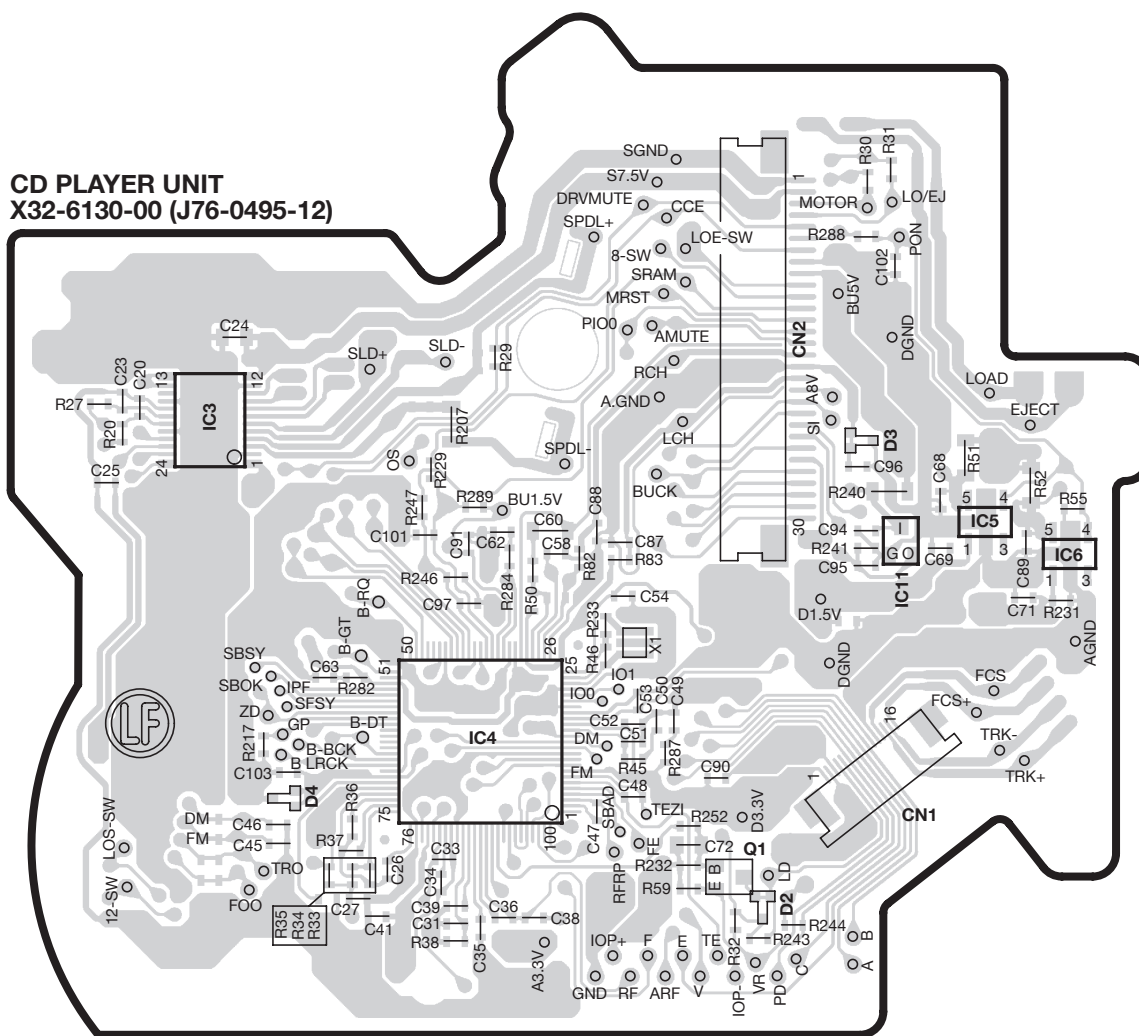


X32-6130-00

Ref. No.	Address
Q13	4AR

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

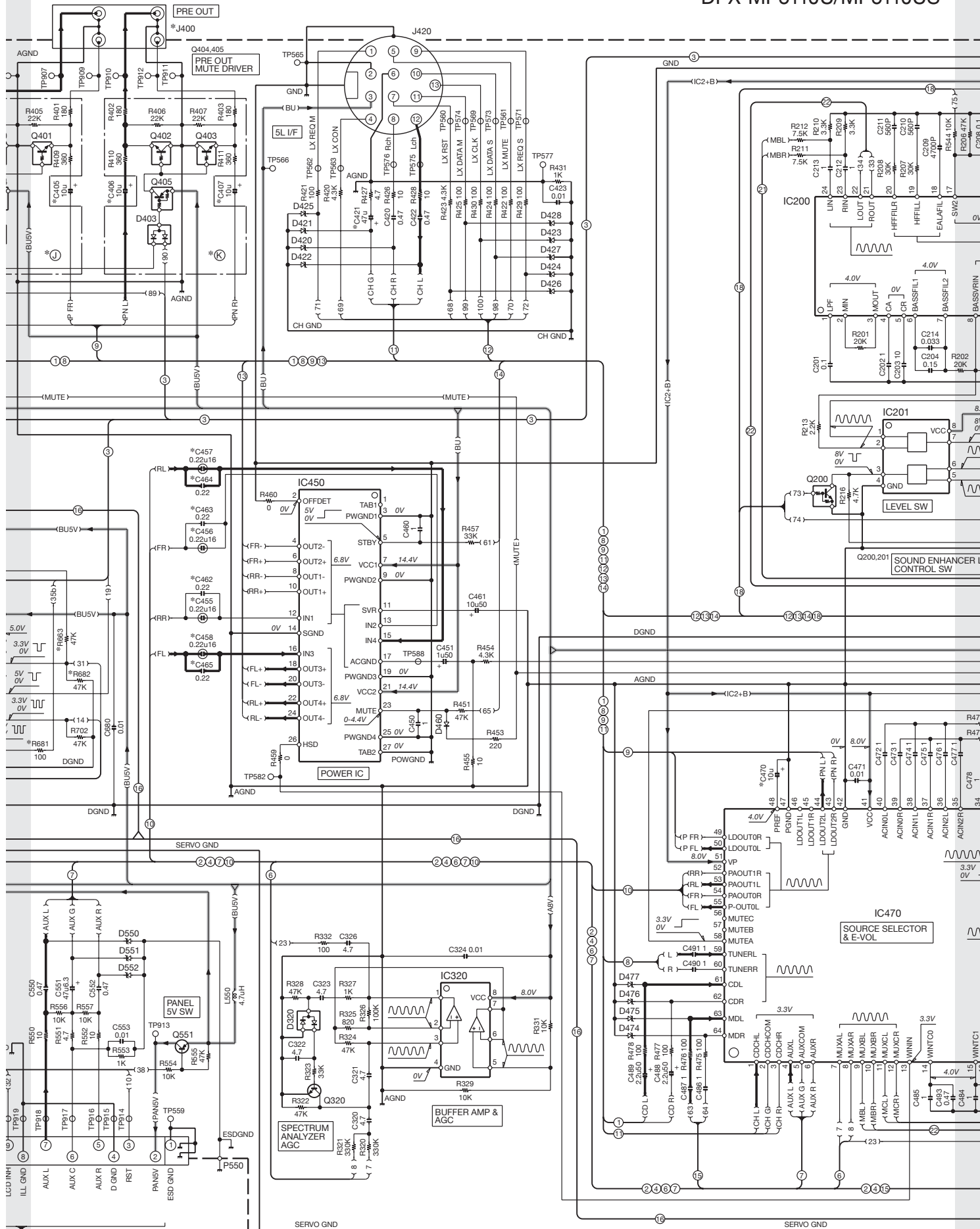
PC BOARD (FOIL SIDE VIEW)

**X32-6130-00**

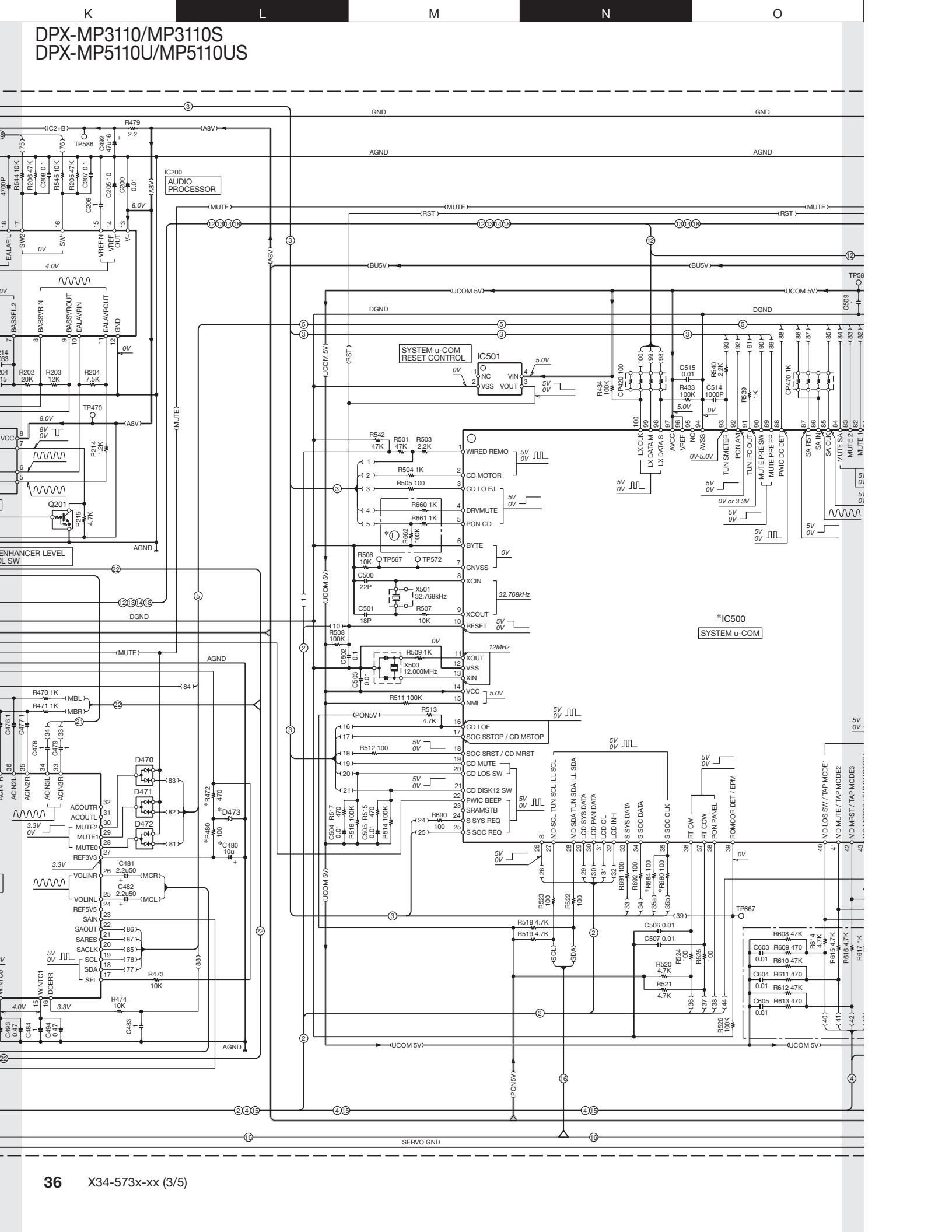
Ref. No.	Address
IC3	3AU
IC4	4AU
IC5	3AW
IC6	3AW
IC11	3AW
Q1	4AV

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



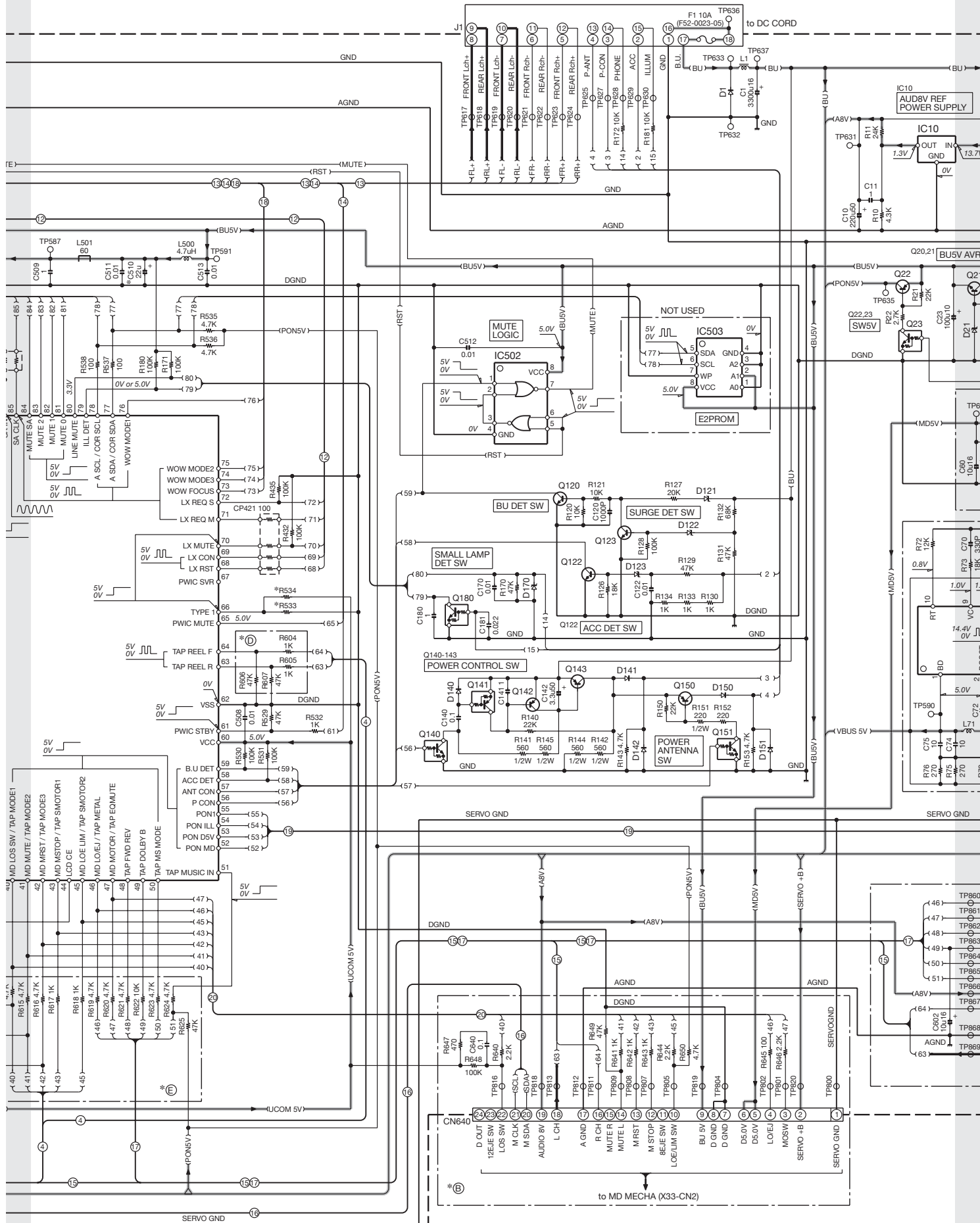


A to SWITCH UNIT (X16-J1)

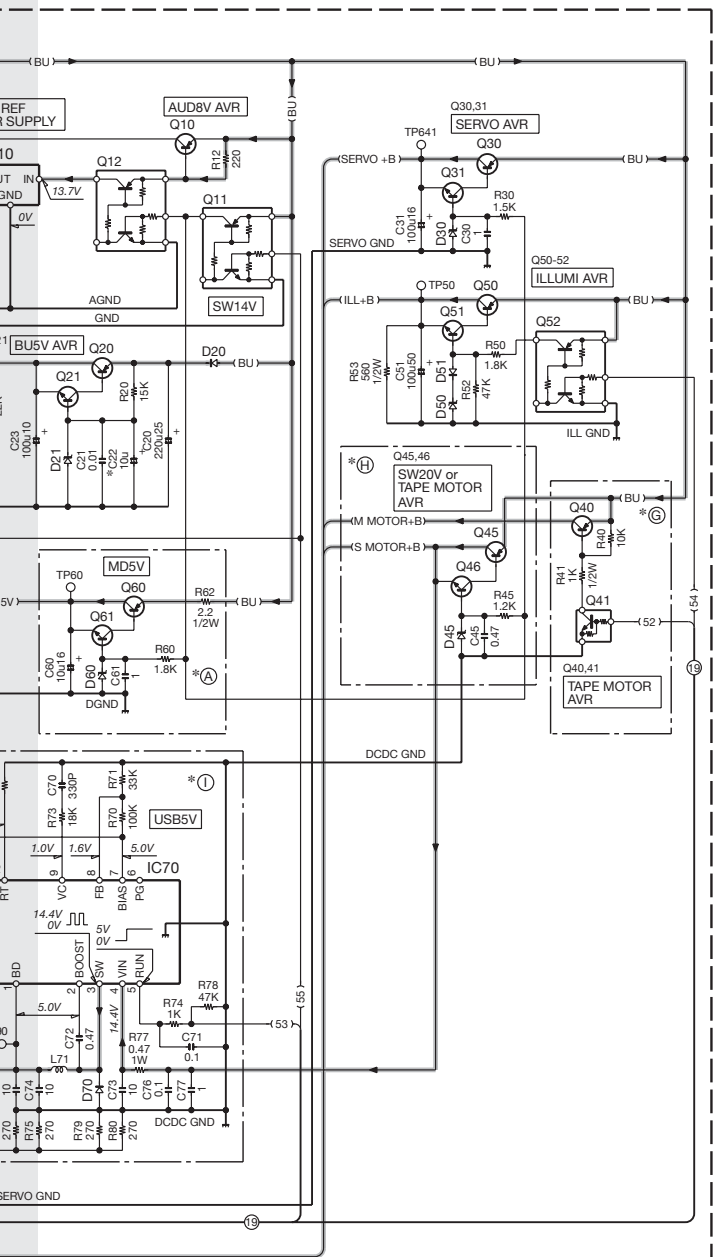


DPX-MP3110/MP3110S

DPX-MP5110U/MP5110US



DPX-MP3110/MP3110S DPX-MP5110U/MP5110US



IC10 : M5237ML-CF0J
IC70 : See parts list.
IC200 : NJM2706VE-ZA
IC201 : 74HC2G66DP
IC320 : NJM4565V-ZB
IC450 : KKZ11Z
IC470 : E-TDA7415CB
IC500 : *
IC501 : XC6120N362N1
IC502 : 74HC2G02DP
IC503 : NOT USED
IC600 : BA6219BFP-Y
IC690 : 74LVC08APW
IC691 : 74AHCT08PW

Q10,20,30,50,60 : KTA1046-P
Q11,12,52 : UMC2N
Q21,31,46,51,61,120,122,123 : 2SC4081

Q22,340 : 2SA1577
Q23,200,201,341 : DTC124EUA
Q40,45 : 2SB1188
Q41,140,151,690 : DTC114YUA
Q141 : DTA114EUA
Q142,551 : 2SA1576A
Q143,150 : 2SB1188(Q,R)
Q180 : DTC144EUA
Q320 : 2SC4617
Q400-403 : DTC143TUA
Q404,405,550 : DTA124EUA

D1 : S2V60-5009F46
D20,70 : RB160L-40
D21,60,474-477 : UDZW5.6(B)
D30 : UDZW8.2(B)
D45 : UDZW20(B)
D50 : UDZW10(B)
D51,140,460 : 1SS355
D121,122,420-422,550-552 : UDZW6.8(B)
D123,423-428,500 : UDZW6.2(B)
D141,142,150,151,600 : 1SR154-400
D170 : UDZW4.7(B)
D320 : DA204U
D402,403,470-472 : DAP202U
D473 : UDZW3.3(B)
D601 : 02DZ3.6F-Z

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DPX-MP3110/MP3110S
DPX-MP5110U/MP5110US

(X17-200x-xx)

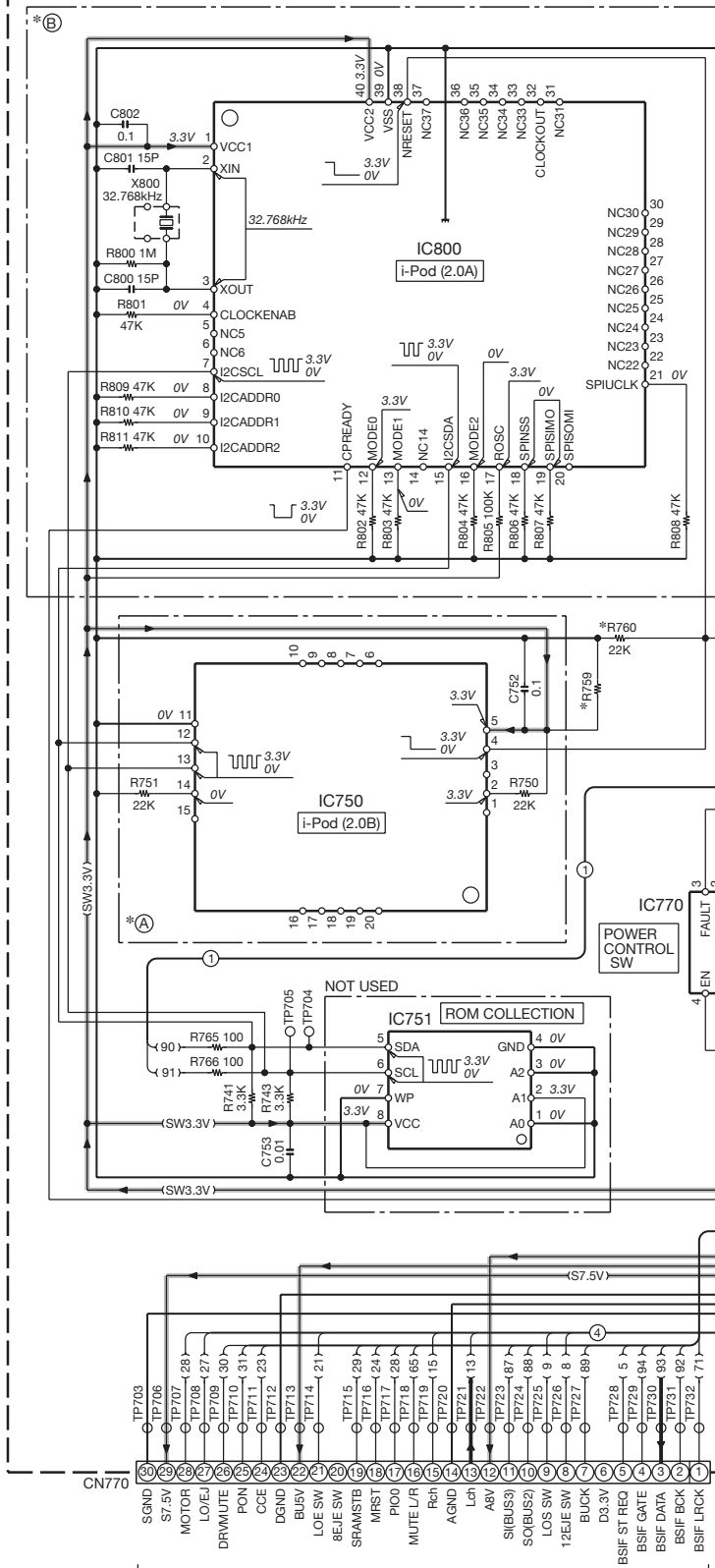
MODEL NAME	UNIT No.	(A)	(B)	R759	R760	R703 704
DPX-MP5110U/US	0-00	—	—	—	—	—
DPX-U60MD						
—	0-01	YES	—	33K	YES	—
—	0-02	—	YES	3.3K	YES	YES

IC700 : 92CD28AFG6VD1
IC750 : -
IC751 : -
IC770 : STMP52151STR
IC771 : R1114N331B-TR
IC800 : -

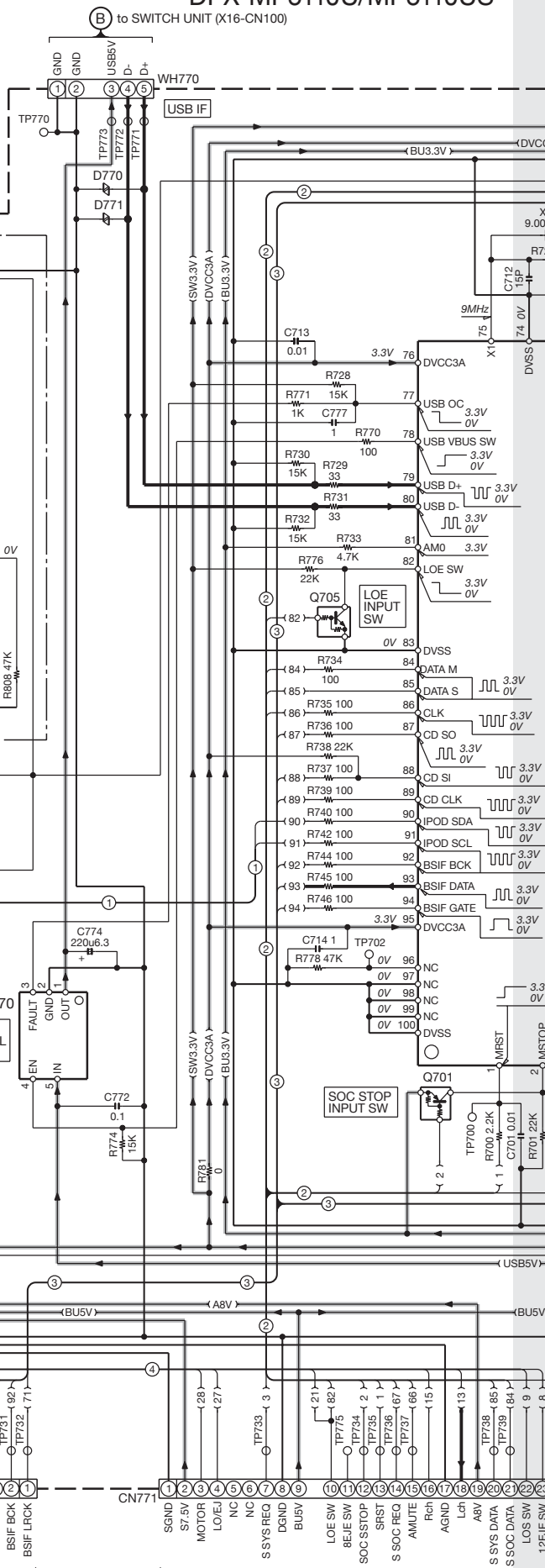
Q701 : DTA114YUA
Q702,704,705 : DTC114YUA
Q703 : 2SB1689

D770,771 : AVRL1613R3FTA

PROCESSOR UNIT (X17-200x-xx)



to CD MECHA (X32-CN2)



to ELECTRIC UNIT (X34-CN690)

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40 X17-2000-00 (2/2)

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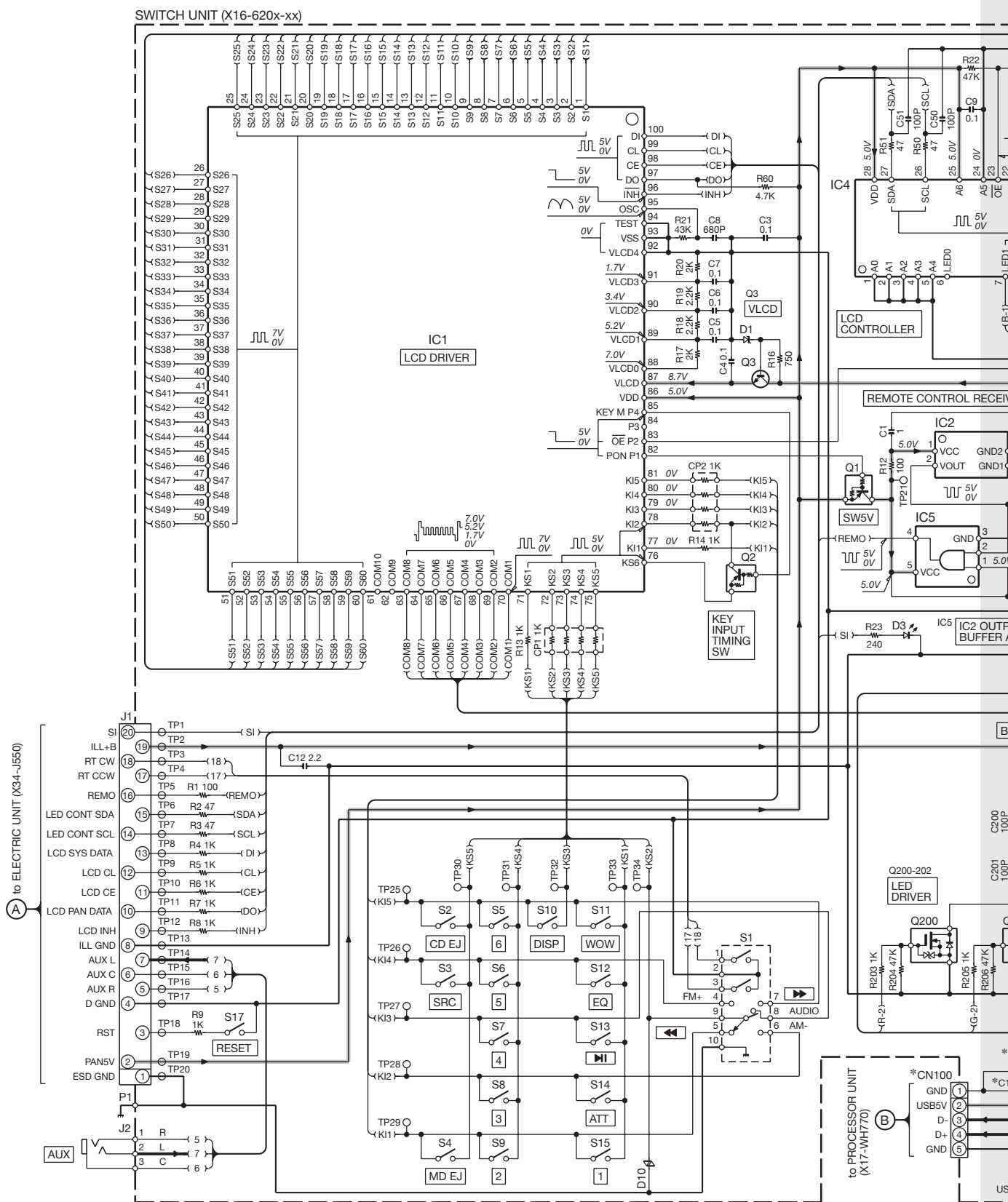
3

4

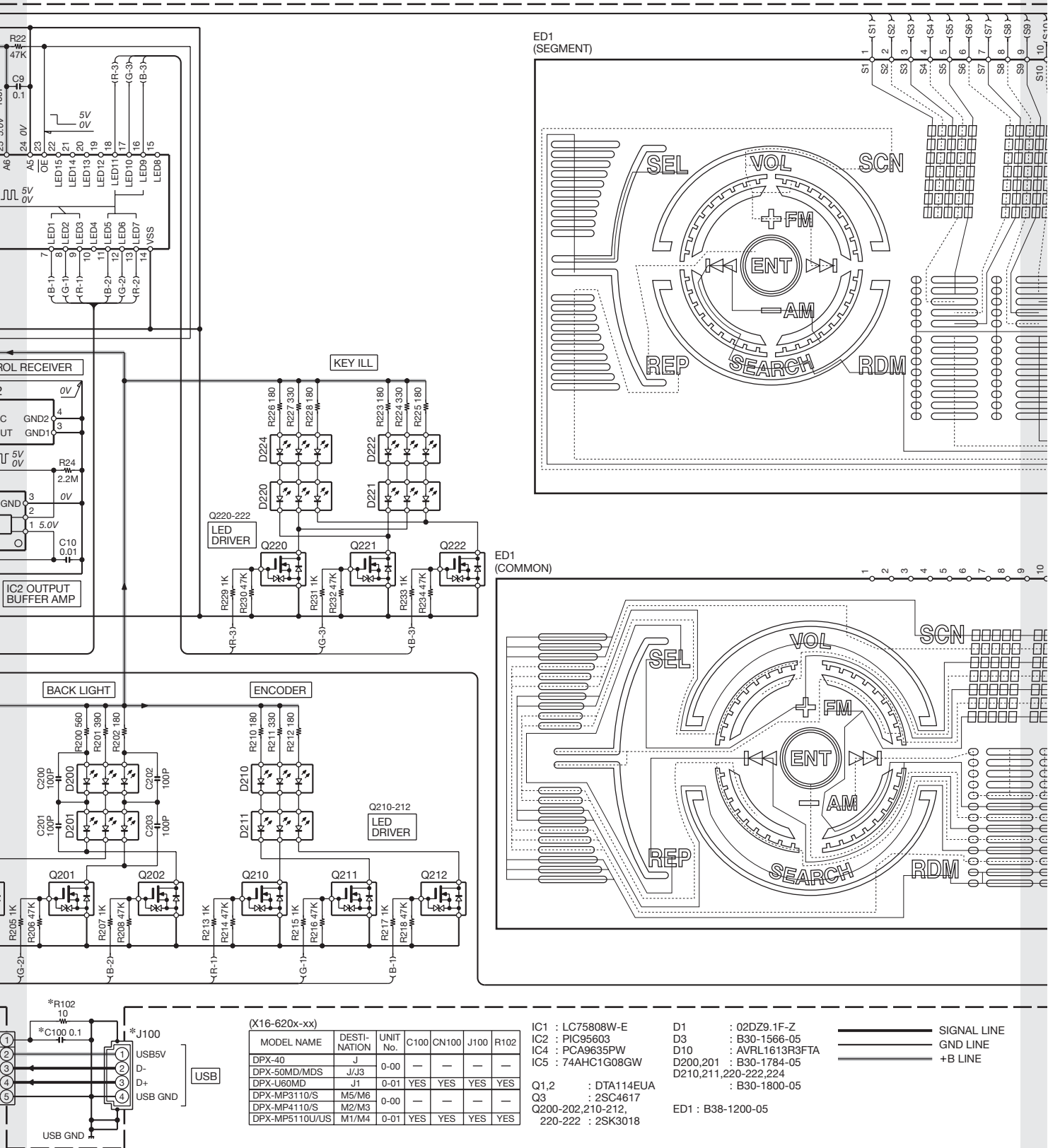
5

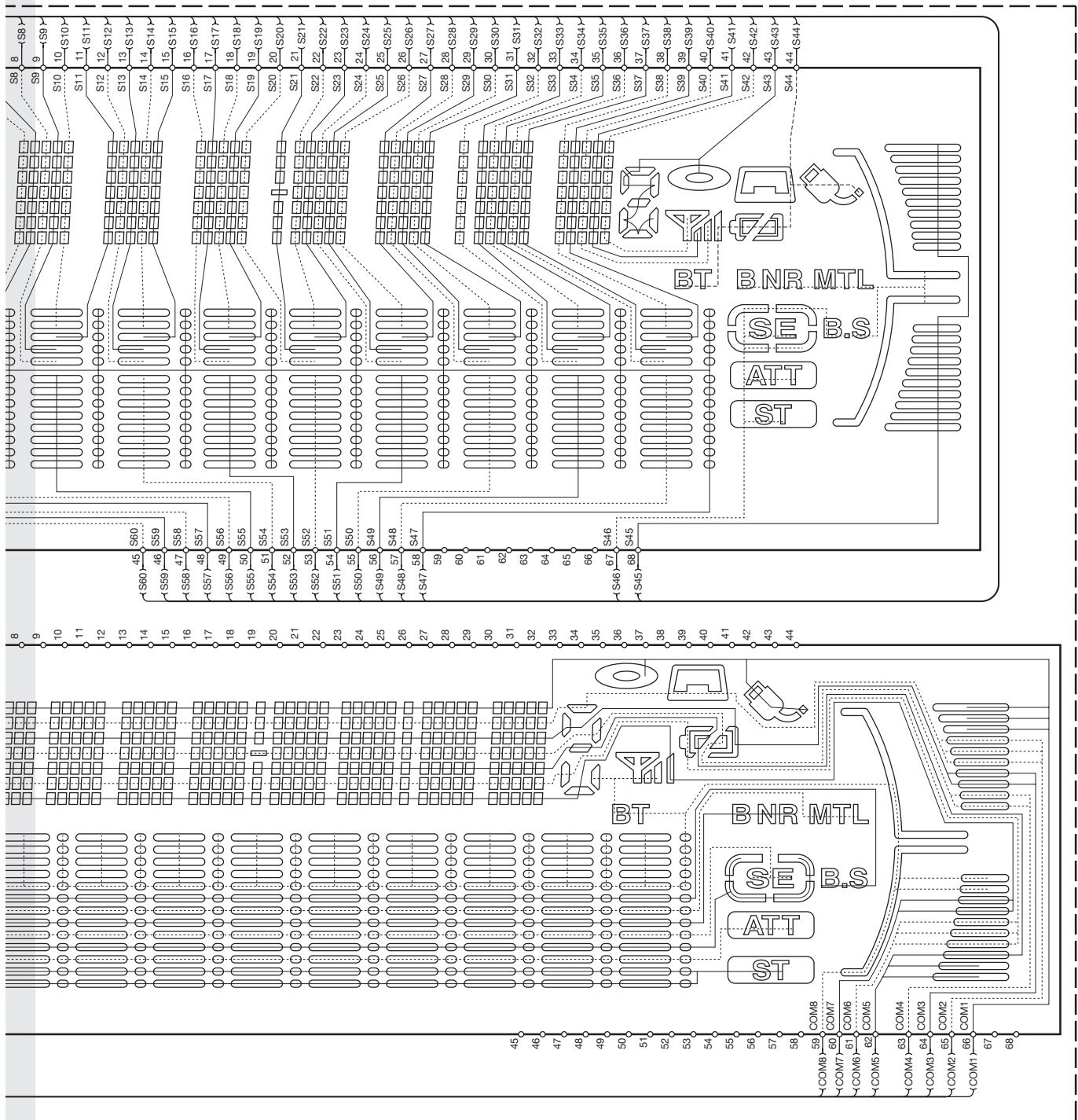
6

7



DPX-MP3110/MP3110S DPX-MP5110U/MP5110US





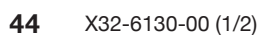
DPX-MP3110/MP3110S/MP5110U/MP5110US (3/3)

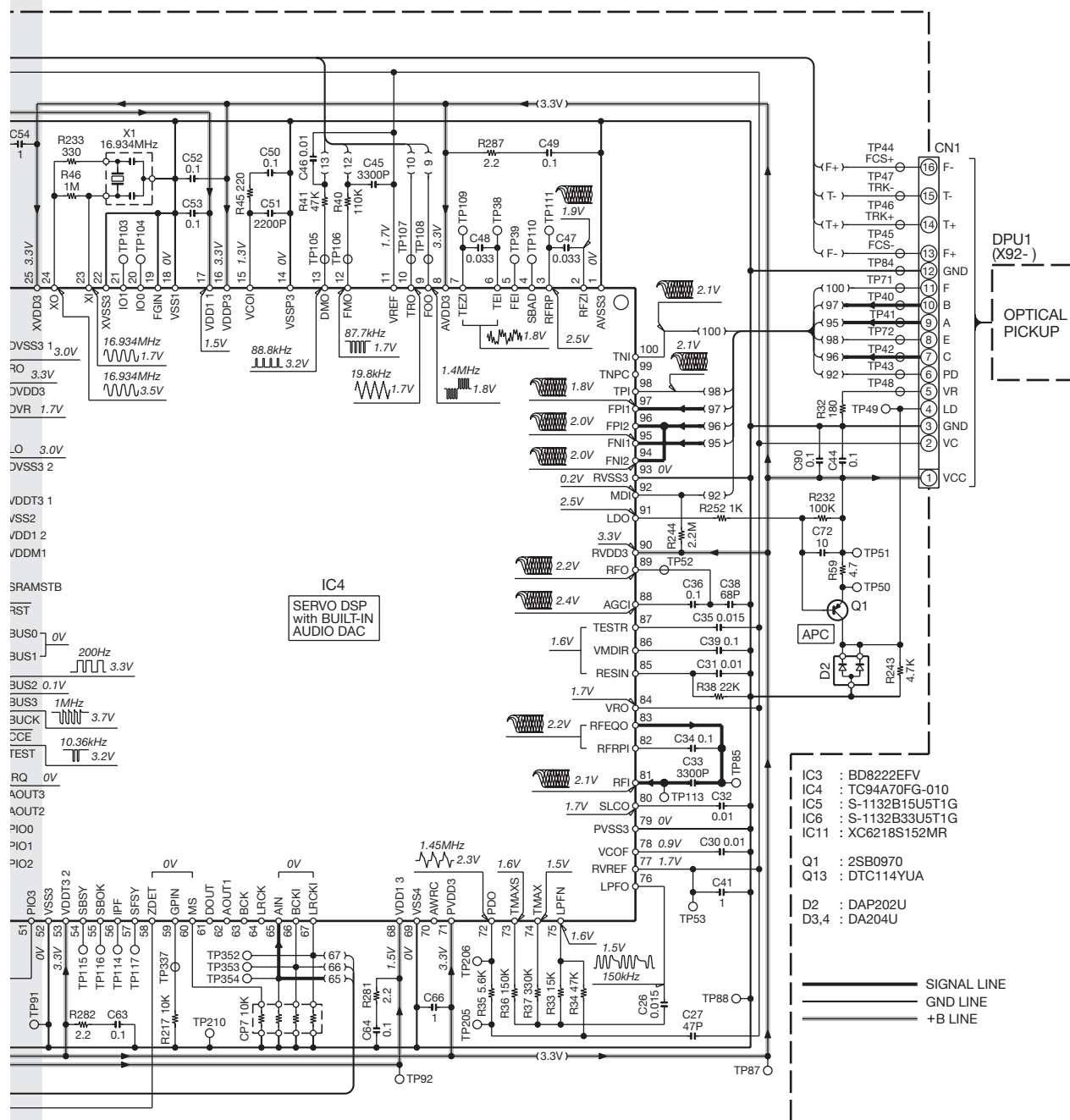
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

⚠ 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.

7



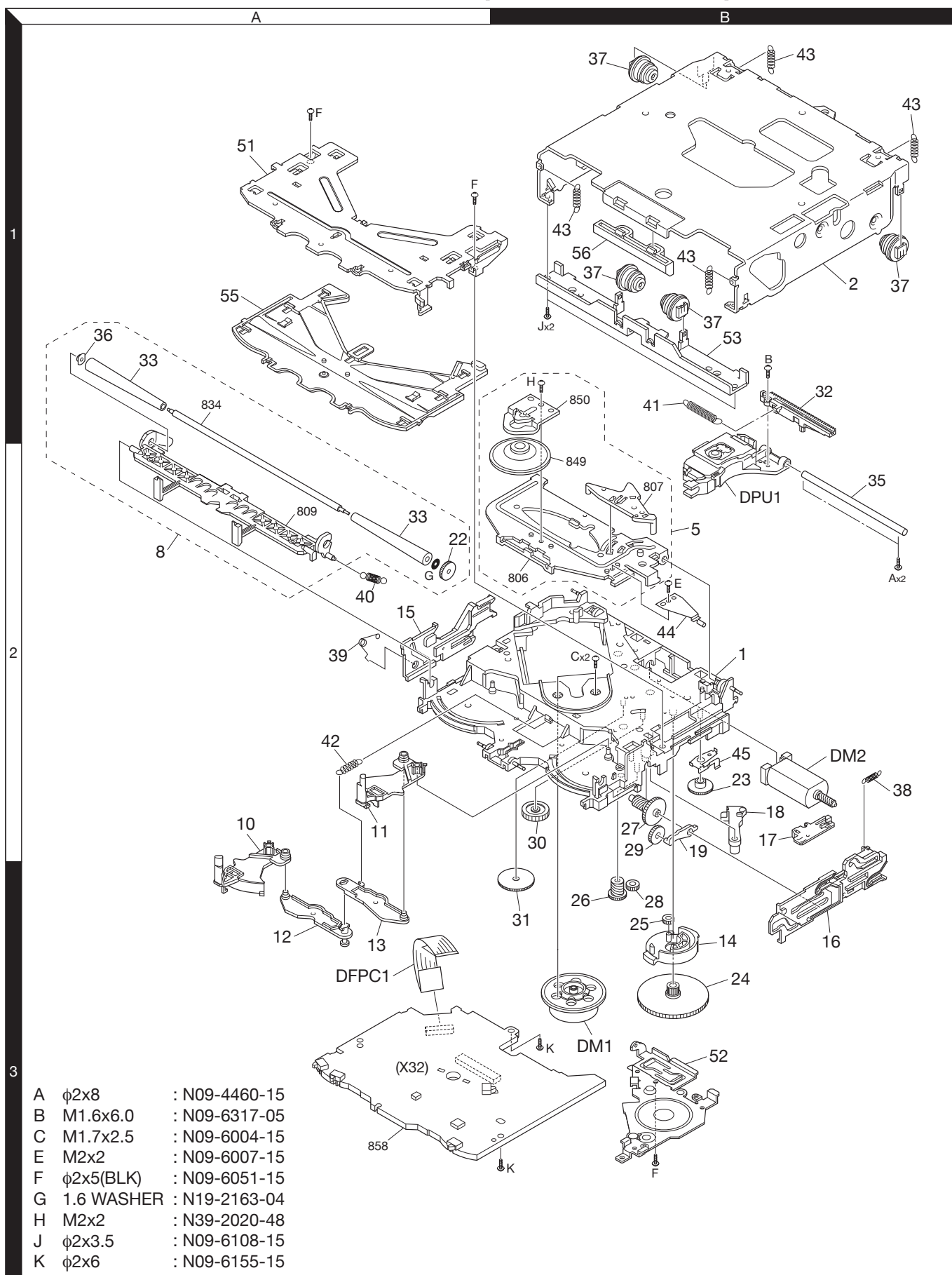


CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

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

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

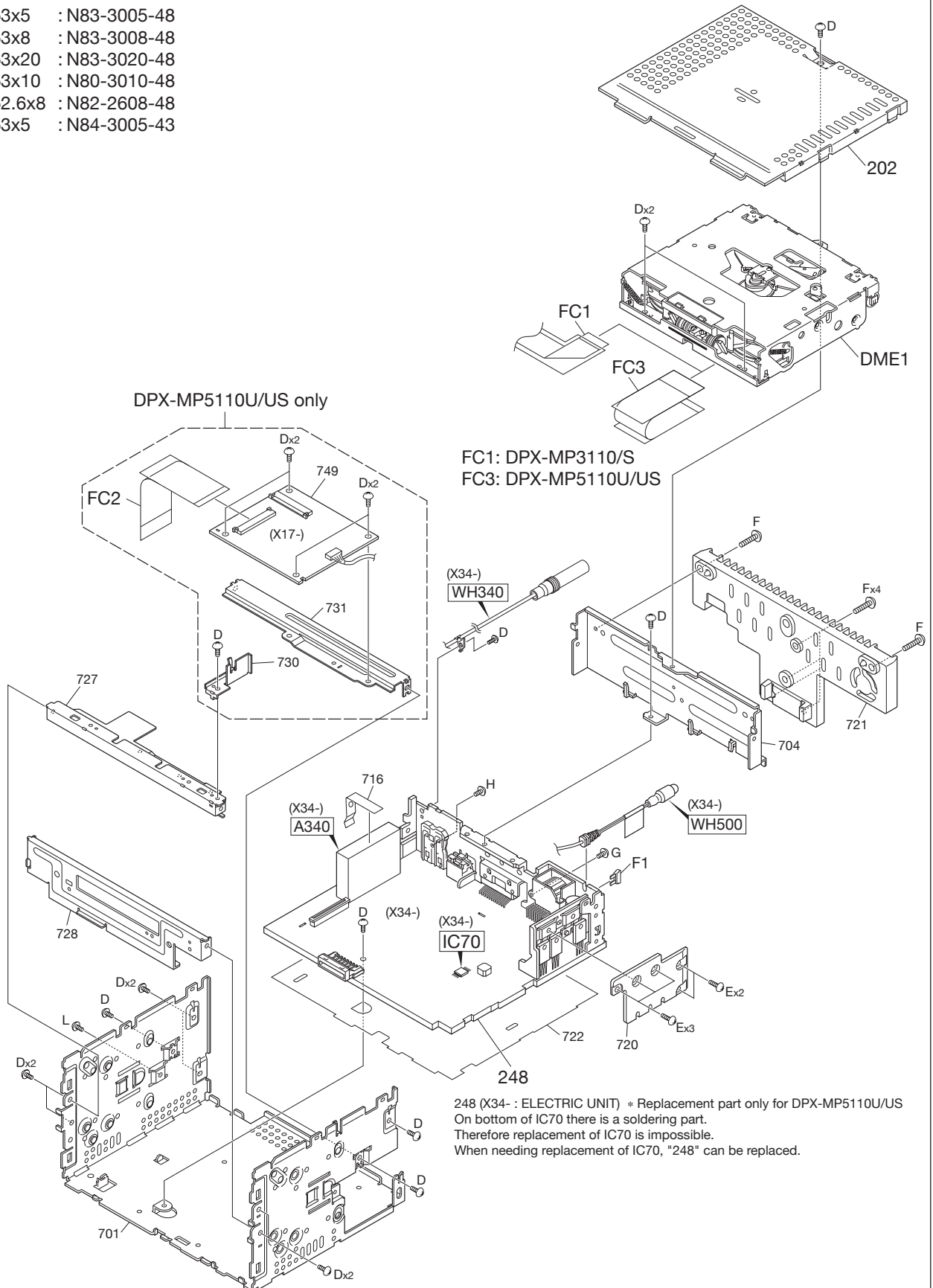
EXPLODED VIEW (CD MECHANISM)



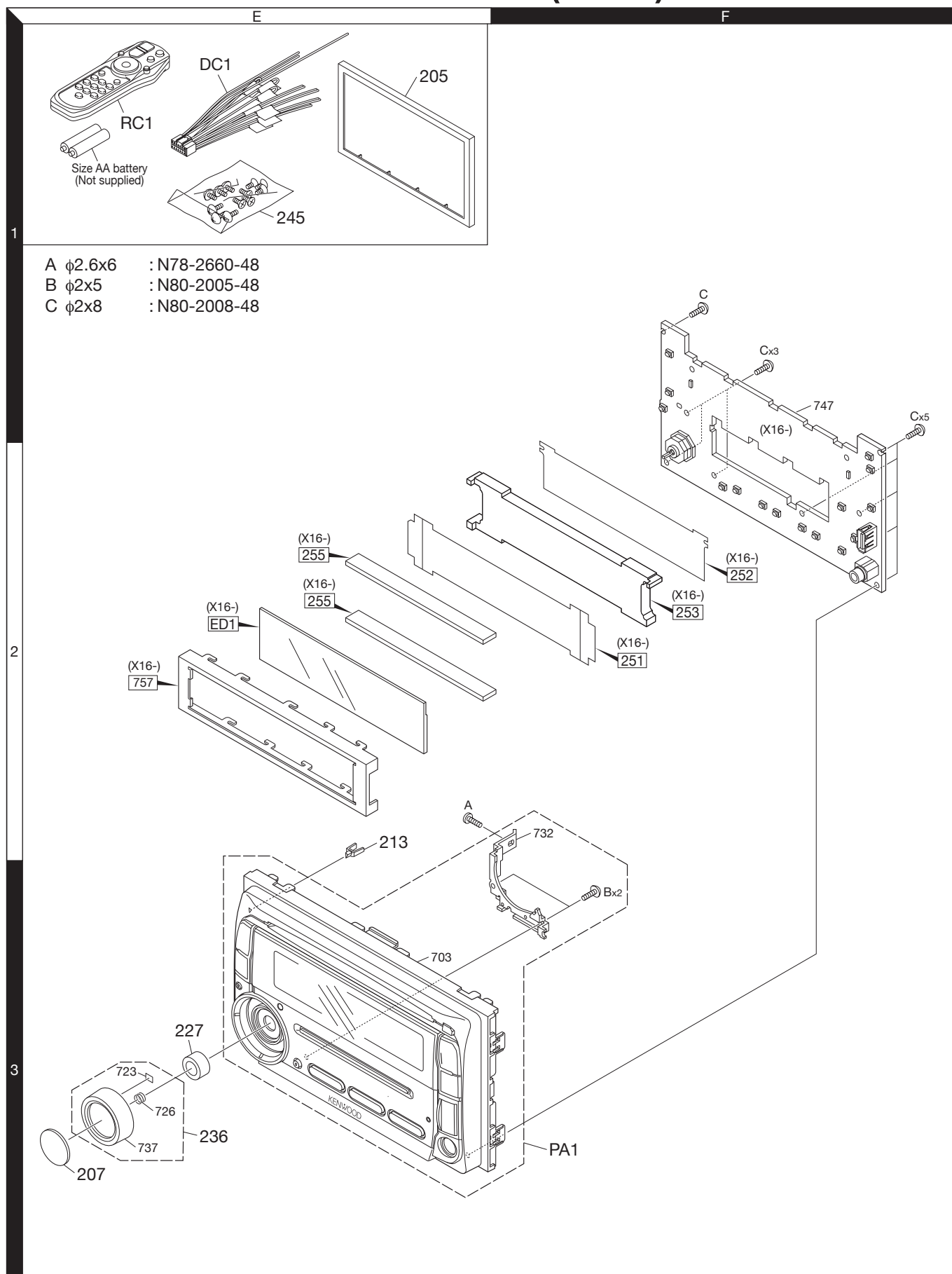
Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)

- D $\phi 3 \times 5$: N83-3005-48
- E $\phi 3 \times 8$: N83-3008-48
- F $\phi 3 \times 20$: N83-3020-48
- G $\phi 3 \times 10$: N80-3010-48
- H $\phi 2.6 \times 8$: N82-2608-48
- L $\phi 3 \times 5$: N84-3005-43



EXPLODED VIEW (PANEL)



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

PARTS LIST

* New parts

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

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

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

Ref. No.	Ad d	New	Parts No.	Description	Desti- nation
DPX-MP3110/MP3110S/MP5110U/MP5110US					
202	1D		A52-0872-12	TOP PLATE	
PA1	3F	*	A64-4458-12	PANEL ASSY	M1
PA1	3F	*	A64-4462-12	PANEL ASSY	M4
PA1	3F	*	A64-4608-12	PANEL ASSY	M5
PA1	3F	*	A64-4609-12	PANEL ASSY	M6
RC1	1C		A70-2085-05	REMOTE CONTROLLER ASSY (RC-547)	
-		*	B64-3964-00	INST. MANUAL (ENG.S-CHI.ARA.)	
205	1E		B07-3025-02	ESCUTCHEON	
207	3E	*	B10-5114-03	FRONT GLASS	
213	2E	*	B19-2479-04	LIGHTING BOARD	
△ DC1	1E		E30-6414-05	DC CORD	
FC1	1D	*	E39-1014-05	FLAT CABLE (CD-X34)	M5M6
FC2	2C	*	E39-1015-05	FLAT CABLE (X17-X34)	M1M4
FC3	1D	*	E39-1016-05	FLAT CABLE (CD-X17)	M1M4
△ F1	2D		F52-0023-05	FUSE (MINI BLADE TYPE) (10A)	
227	3E	*	G11-3761-04	CUSHION	
-		*	H54-4250-03	ITEM CARTON CASE	M1
-		*	H54-4304-03	ITEM CARTON CASE	M4
-		*	H54-4367-03	ITEM CARTON CASE	M5
-		*	H54-4368-03	ITEM CARTON CASE	M6
236	3E	*	K28-0298-04	KNOB ASSY (VOL)	
245	1E		N99-1779-15	SCREW SET	
A	2E		N78-2660-48	PAN HEAD TAPTITE SCREW	
B	3F		N80-2005-48	PAN HEAD TAPTITE SCREW	
C	1F		N80-2008-48	PAN HEAD TAPTITE SCREW	
D	3C		N83-3005-48	PAN HEAD TAPTITE SCREW	
E	3D		N83-3008-48	PAN HEAD TAPTITE SCREW	
F	2D		N83-3020-48	PAN HEAD TAPTITE SCREW	
L	3C		N84-3005-43	PAN HEAD TAPTITE SCREW	
248	3D	*	X34-5730-21	ELECTRIC UNIT (for IC70)	M1M4
DME1	1D		X92-6130-00	MECHANISM ASSY (DXM-6E20W)	
SWITCH UNIT (X16-620x-xx)					
251	2F	*	B11-2020-04	OPTICAL DIFFUSER	
252	2F		B11-1488-04	REFLECTION SHEET	
253	2F	*	B19-2485-02	LIGHTING BOARD	
D3			B30-1566-05	LED (1608,RED)	
D200,201		*	B30-1784-05	LED (RGB,SIDE)	
D210,211		*	B30-1800-05	LED (RGB,F4)	
D220-222		*	B30-1800-05	LED (RGB,F4)	
D224		*	B30-1800-05	LED (RGB,F4)	
ED1	2E	*	B38-1200-05	LCD	
C1			CK73GB1A105K	CHIP C 1.0UF K	
C3-7			CK73GB1C104K	CHIP C 0.10UF K	
C8			CC73GCH1H681J	CHIP C 680PF J	
C9			CK73GB1C104K	CHIP C 0.10UF K	
C10			CK73GB1H103K	CHIP C 0.010UF K	
C12			CK73GB1C225K	CHIP C 2.2UF K	
C50,51			CC73GCH1H101J	CHIP C 100PF J	
C100			CK73GB1C104K	CHIP C 0.10UF K	M1M4

Ref. No.	Ad d	New	Parts No.	Description	Desti- nation
C200-203			CC73GCH1H101J	CHIP C 100PF J	
255	2E		E29-2066-04	CONDUCTIVE RUBBER	
CN100		*	E41-2684-05	PIN ASSY	M1M4
J1			E59-0852-05	RECTANGULAR PLUG	
J2			E11-0650-05	3.5D PHONE JACK	
J100			E58-1062-05	RECTANGULAR RECEPTACLE (USB)	M1M4
CP1,2			RK74GB1J102J	CHIP-COM 1.0K J 1/16W	
R1			RK73GB2A101J	CHIP R 100 J 1/10W	
R2,3			RK73GB2A470J	CHIP R 47 J 1/10W	
R4-9			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R12			RK73GB2A101J	CHIP R 100 J 1/10W	
R13,14			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R16			RK73GB2A751J	CHIP R 750 J 1/10W	
R17			RK73GB2A202J	CHIP R 2.0K J 1/10W	
R18,19			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R20			RK73GB2A202J	CHIP R 2.0K J 1/10W	
R21			RK73GB2A433J	CHIP R 43K J 1/10W	
R22			RK73GB2A473J	CHIP R 47K J 1/10W	
R23			RK73GB2A241J	CHIP R 240 J 1/10W	
R24			RK73GB2A225J	CHIP R 2.2M J 1/10W	
R50,51			RK73GB2A470J	CHIP R 47 J 1/10W	
R60			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R102			RK73GB2A100J	CHIP R 10 J 1/10W	M1M4
R200			RK73EB2E561J	CHIP R 560 J 1/4W	
R201			RK73EB2E391J	CHIP R 390 J 1/4W	
R202			RK73EB2E181J	CHIP R 180 J 1/4W	
R203			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R204			RK73GB2A473J	CHIP R 47K J 1/10W	
R205			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R206			RK73GB2A473J	CHIP R 47K J 1/10W	
R207			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R208			RK73GB2A473J	CHIP R 47K J 1/10W	
R210			RK73EB2E181J	CHIP R 180 J 1/4W	
R211			RK73EB2E331J	CHIP R 330 J 1/4W	
R212			RK73EB2E181J	CHIP R 180 J 1/4W	
R213			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R214			RK73GB2A473J	CHIP R 47K J 1/10W	
R215			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R216			RK73GB2A473J	CHIP R 47K J 1/10W	
R217			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R218			RK73GB2A473J	CHIP R 47K J 1/10W	
R223			RK73EB2E181J	CHIP R 180 J 1/4W	
R224			RK73EB2E331J	CHIP R 330 J 1/4W	
R225,226			RK73EB2E181J	CHIP R 180 J 1/4W	
R227			RK73EB2E331J	CHIP R 330 J 1/4W	
R228			RK73EB2E181J	CHIP R 180 J 1/4W	
R229			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R230			RK73GB2A473J	CHIP R 47K J 1/10W	
R231			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R232			RK73GB2A473J	CHIP R 47K J 1/10W	
R233			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R234			RK73GB2A473J	CHIP R 47K J 1/10W	
S1			S70-0947-05	TACT SWITCH	

M1 : DPX-MP5110U **M4** : DPX-MP5110US **M5** : DPX-MP3110 **M6** : DPX-MP3110S

△ Indicates safety critical components.

PARTS LIST

SWITCH UNIT (X16-620x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
S2-15 S17			S70-0901-05 S70-0901-05	TACT SWITCH TACT SWITCH	
D1 D10 IC1 IC2 IC4		*	02DZ9.1F-Z AVRL1613R3FTA LC75808W-E PIC95603 PCA9635PW	ZENER DIODE VARISTOR MOS-IC ANALOGUE IC MOS-IC	
IC5 Q1,2 Q3 Q200-202 Q210-212			74AHC1G08GW DTA114EUA 2SC4617 2SK3018 2SK3018	MOS-IC DIGITAL TRANSISTOR TRANSISTOR FET FET	
Q220-222			2SK3018	FET	

PROCESSOR UNIT (X17-2000-00)

C700 C701 C702 C703 C704,705			CK73GB1A105K CK73GB1H103K CC73GCH1H180J CC73GCH1H220J CK73GB1A105K	CHIP C CHIP C CHIP C CHIP C CHIP C	1.0UF 0.010UF 18PF 22PF 1.0UF	K K J J K	M1M4 M1M4 M1M4 M1M4 M1M4
C707 C708-710 C711,712 C713,714 C715,716			CK73GB1A105K CK73GB1H103K CC73GCH1H150J CK73GB1A105K CK73FB0J106K	CHIP C CHIP C CHIP C CHIP C CHIP C	1.0UF 0.010UF 15PF 1.0UF 10UF	K K J K K	M1M4 M1M4 M1M4 M1M4 M1M4
C720 C753 C772 C774 C775-777			CK73FB0J106K CK73GB1H103K CK73GB1C104K CE32BF0J221M CK73GB1A105K	CHIP C CHIP C CHIP C CHIP EL CHIP C	10UF 0.010UF 0.10UF 220UF 1.0UF	K K K 6.3WV K	M1M4 M1M4 M1M4 M1M4 M1M4
C778			CK73GB1C104K	CHIP C	0.10UF	K	M1M4
CN770,771 WH770		*	E41-2630-05 E39-0978-05	FLAT CABLE CONNECTOR WIRING HARNESS (5P)			M1M4 M1M4
L772 X700 X701		*	L92-0652-05 L77-2921-05 L77-2964-05	CHIP FERRITE CRYSTAL RESONATOR (32.768KHZ) CRYSTAL RESONATOR (9.00MHZ)			M1M4 M1M4 M1M4
R700 R701 R702 R703 R704			RK73GB2A222J RK73GB2A223J RK73GB2A101J RK73GB2A102J RK73GB2A223J	CHIP R CHIP R CHIP R CHIP R CHIP R	2.2K 22K 100 1.0K 22K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W	M1M4 M1M4 M1M4 M1M4 M1M4
R705 R706 R707 R708 R709,710			RK73GB2A102J RK73GB2A223J RK73GB2A104J RK73GB2A101J RK73GB2A102J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.0K 22K 100K 100 1.0K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W	M1M4 M1M4 M1M4 M1M4 M1M4
R711 R713 R714 R715 R716			RK73GB2A223J RK73GB2A101J RK73GB2A223J RK73GB2A102J RK73GB2A101J	CHIP R CHIP R CHIP R CHIP R CHIP R	22K 100 22K 1.0K 100	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W	M1M4 M1M4 M1M4 M1M4 M1M4
R719 R720			RK73GB2A101J RK73GB2A223J	CHIP R CHIP R	100 22K	J 1/10W J 1/10W	M1M4 M1M4

Ref. No.	Add	New	Parts No.	Description				Destination
R721,722			RK73GB2A101J	CHIP R	100	J	1/10W	M1M4
R724			RK73GB2A101J	CHIP R	100	J	1/10W	M1M4
R725			RK73GB2A472J	CHIP R	4.7K	J	1/10W	M1M4
R726			RK73GB2A102J	CHIP R	1.0K	J	1/10W	M1M4
R727			RK73GB2A105J	CHIP R	1.0M	J	1/10W	M1M4
R728			RK73GB2A153J	CHIP R	15K	J	1/10W	M1M4
R729			RK73GB2A330J	CHIP R	33	J	1/10W	M1M4
R730			RK73GB2A153J	CHIP R	15K	J	1/10W	M1M4
R731			RK73GB2A330J	CHIP R	33	J	1/10W	M1M4
R732			RK73GB2A153J	CHIP R	15K	J	1/10W	M1M4
R733			RK73GB2A472J	CHIP R	4.7K	J	1/10W	M1M4
R734-737			RK73GB2A101J	CHIP R	100	J	1/10W	M1M4
R738			RK73GB2A223J	CHIP R	22K	J	1/10W	M1M4
R739,740			RK73GB2A101J	CHIP R	100	J	1/10W	M1M4
R741			RK73GB2A332J	CHIP R	3.3K	J	1/10W	M1M4
R742			RK73GB2A101J	CHIP R	100	J	1/10W	M1M4
R743			RK73GB2A332J	CHIP R	3.3K	J	1/10W	M1M4
R744-746			RK73GB2A101J	CHIP R	100	J	1/10W	M1M4
R765,766			RK73GB2A101J	CHIP R	100	J	1/10W	M1M4
R770			RK73GB2A101J	CHIP R	100	J	1/10W	M1M4
R771			RK73GB2A102J	CHIP R	1.0K	J	1/10W	M1M4
R774			RK73GB2A153J	CHIP R	15K	J	1/10W	M1M4
R776			RK73GB2A223J	CHIP R	22K	J	1/10W	M1M4
R778			RK73GB2A473J	CHIP R	47K	J	1/10W	M1M4
R781			RK73GB2A000J	CHIP R	0.0	J	1/10W	M1M4
R782			RK73FB2B2R2J	CHIP R	2.2	J	1/8W	M1M4
D770,771		*	AVRL1613R3FTA	VARIATOR				M1M4
IC700	92CD28AFG6VD1		MICROCONTROLLER IC					M1M4
IC751	BR24L04FV-W		ROM IC					M1M4
IC770	STMP52151STR		MOS-IC					M1M4
IC771	R1114N331B-TR		ANALOGUE IC (3.3V)					M1M4
Q701			DTA114YUA	DIGITAL TRANSISTOR				M1M4
Q702			DTC114YUA	DIGITAL TRANSISTOR				M1M4
Q703			2SB1689	TRANSISTOR				M1M4
Q704,705			DTC114YUA	DIGITAL TRANSISTOR				M1M4

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

C20 C23 C24 C25 C26			CC73GCH1H330J CC73GCH1H151J CK73FB1A225K CK73GB1A105K CK73GB1H153K	CHIP C CHIP C CHIP C CHIP C CHIP C	33PF 150PF 2.2UF 1.0UF 0.015UF	J J K K K	
C27 C30-32 C33 C34 C35			CC73GCH1H470J CK73GB1H103K CK73GB1H332K CK73GB1H104K CK73GB1H153K	CHIP C CHIP C CHIP C CHIP C CHIP C	47PF 0.010UF 3300PF 0.10UF 0.015UF	J K K K K	
C36 C38 C39 C41 C44			CK73GB1H104K CC73GCH1H680J CK73GB1H104K CK73GB1A105K CK73GB1H104K	CHIP C CHIP C CHIP C CHIP C CHIP C	0.10UF 68PF 0.10UF 1.0UF 0.10UF	K J K K K	
C45 C46 C47,48			CK73GB1H332K CK73GB1H103K CK73GB1H333K	CHIP C CHIP C CHIP C	3300PF 0.010UF 0.033UF	K K K	

M1 : DPX-MP5110U **M4** : DPX-MP5110US **M5** : DPX-MP3110 **M6** : DPX-MP3110S

△Indicates safety critical components.

PARTS LIST

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

Ref. No.	Added	New	Parts No.	Description	Destination
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	
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	

Ref. No.	Added	New	Parts No.	Description	Destination
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 (X34-573x-xx)					
C1			CD04AZ1C332M2	ELECTRO 3300UF 16WV	
C10			CD04AT1A221M	ELECTRO 220UF 10WV	
C11			CK73GB1A105K	CHIP C 1.0UF K	
C20			C90-6851-05	ELECTRO 220UF 25WV	
C21			CK73GB1H103K	CHIP C 0.010UF K	
C22			CD04AS1V100M	ELECTRO 10UF 35WV	M1M4
C22			CD04AT1C100M	ELECTRO 10UF 16WV	M5M6
C23			CD04AT1A101M	ELECTRO 100UF 10WV	
C30			CK73GB1A105K	CHIP C 1.0UF K	
C31			CD04BA1C101M	ELECTRO 100UF 16WV	
C45			CK73FB1E474K	CHIP C 0.47UF K	M1M4
C51			CD04BK1C101M	ELECTRO 100UF 16WV	
C70			CC73GCH1H331J	CHIP C 330PF J	M1M4
C71			CK73GB1C104K	CHIP C 0.10UF K	M1M4
C72			CK73GB1A474K	CHIP C 0.47UF K	M1M4
C73			C93-1446-05	CHIP C 10UF K	M1M4
C74,75			CK73FB0J106K	CHIP C 10UF K	M1M4
C76			CK73GB1H104K	CHIP C 0.10UF K	M1M4
C77			CK73EB1E105K	CHIP C 1.0UF K	M1M4
C120			CK73GB1H102K	CHIP C 1000PF K	
C122			CK73GB1H103K	CHIP C 0.010UF K	
C140			CK73GB1C104K	CHIP C 0.10UF K	
C141			CK73GB1A105K	CHIP C 1.0UF K	
C142			CD04AS1H3R3M	ELECTRO 3.3UF 50WV	M1M4
C142			CD04AT1H3R3M	ELECTRO 3.3UF 50WV	M5M6

M1 : DPX-MP5110U M4 : DPX-MP5110US M5 : DPX-MP3110 M6 : DPX-MP3110S

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-573x-xx)

Ref. No.	Ad	New	Parts No.	Description	Desti- nation	Ref. No.	Ad	New	Parts No.	Description	Desti- nation
C170			CK73GB1H103K	CHIP C 0.010UF K		C550			CK73GB1A474K	CHIP C 0.47UF K	
C180			CK73GB1A105K	CHIP C 1.0UF K		C551			CE32BJ0J470M	CHIP EL 47UF 6.3WV	
C181			CK73GB1H223K	CHIP C 0.022UF K		C552			CK73GB1A474K	CHIP C 0.47UF K	
C200			CK73GB1H103K	CHIP C 0.010UF K		C553			CK73GB1H103K	CHIP C 0.010UF K	
C201			CK73GB1C104K	CHIP C 0.10UF K		C680			CK73GB1H103K	CHIP C 0.010UF K	
C202			CK73GB1A105K	CHIP C 1.0UF K		C691			CK73GB1H103K	CHIP C 0.010UF K	
C203			CK73FB0J106K	CHIP C 10UF K		Δ CN690			E41-2635-05	FLAT CABLE CONNECTOR	
C204			CK73GB1E154K	CHIP C 0.15UF K		J1			E58-0991-05	RECTANGULAR RECEPTACLE	
C205			CK73FB0J106K	CHIP C 10UF K		J400			E63-0896-05	PIN JACK	
C206			CK73GB1A105K	CHIP C 1.0UF K		J420			E56-0855-05	CYLINDRICAL RECEPTACLE	
C207,208			CK73GB1C104K	CHIP C 0.10UF K		J550			E58-1060-15	RECTANGULAR RECEPTACLE	
C209			CK73GB1H472K	CHIP C 4700PF K		WH340	2D		E30-6438-05	CORD WITH PLUG (ANTENNA)	
C210,211			CC73GCH1H561J	CHIP C 560PF J		WH500	2D		E30-6706-05	WIRING HARNESS (REMOTE)	
C212,213			CK73GB1A105K	CHIP C 1.0UF K		Δ L1			L33-2365-05	CHOKE COIL ASSY	
C214			CK73GB1C333K	CHIP C 0.033UF K		L71		*	L33-2462-05	SMALL FIXED INDUCTOR (22UH)	M1M4
C320-323			CK73EB1A475K	CHIP C 4.7UF K		L500		*	L41-4795-33	SMALL FIXED INDUCTOR (4.7UH)	
C324			CK73GB1H103K	CHIP C 0.010UF K		L501			L92-0652-05	CHIP FERRITE	
C326			CK73EB1A475K	CHIP C 4.7UF K		L550			L41-4795-33	SMALL FIXED INDUCTOR (4.7UH)	
C340-343			CK73GB1H103K	CHIP C 0.010UF K		X500			L78-0872-05	RESONATOR (12MHZ)	
C404-407			CD04AS1V100M	ELECTRO 10UF 35WV	M1M4	X501			L77-2921-05	CRYSTAL RESONATOR (32.768KHZ)	
C404-407			CD04AT1C100M	ELECTRO 10UF 16WV	M5M6	D	2D		N83-3005-48	PAN HEAD TAPTITE SCREW	
C420			CK73GB1A474K	CHIP C 0.47UF K		G	2D		N80-3010-48	PAN HEAD TAPTITE SCREW	
C421			CD04AS1C470M	ELECTRO 47UF 16WV	M1M4	H	2D		N82-2608-48	BINDING HEAD TAPTITE SCREW	
C421			CD04AT0J470M	ELECTRO 47UF 6.3WV	M5M6	CP420,421			RK74GB1J101J	CHIP-COM 100 J 1/16W	
C422			CK73GB1A474K	CHIP C 0.47UF K		CP470			RK74GB1J102J	CHIP-COM 1.0K J 1/16W	
C423			CK73GB1H103K	CHIP C 0.010UF K		R10			RK73GH2A432D	CHIP R 4.3K D 1/10W	
C450			CK73FB1C105K	CHIP C 1.0UF K		R11			RK73GH2A243D	CHIP R 24K D 1/10W	
C451			C90-6711-05	ELECTRO 1UF 50WV	M1M4	R12			RK73FB2B221J	CHIP R 220 J 1/8W	
C455-458			C90-6768-05	ELECTRO 0.22UF 16WV		R20			RK73FB2B153J	CHIP R 15K J 1/8W	
C460			CK73FB1C105K	CHIP C 1.0UF K		R21			RK73GB2A223J	CHIP R 22K J 1/10W	
C461			CD04BA1C100M	ELECTRO 10UF 16WV		R22			RK73FB2B272J	CHIP R 2.7K J 1/8W	
C462-465			CK73GB1C224K	CHIP C 0.22UF K	M5M6	R30			RK73FB2B152J	CHIP R 1.5K J 1/8W	
C470			CD04AS1V100M	ELECTRO 10UF 35WV	M1M4	R45			RK73GB2A122J	CHIP R 1.2K J 1/10W	M1M4
C470			CD04AT1C100M	ELECTRO 10UF 16WV	M5M6	R50			RK73FB2B182J	CHIP R 1.8K J 1/8W	
C471			CK73GB1H103K	CHIP C 0.010UF K		R52			RK73GB2A473J	CHIP R 47K J 1/10W	
C472-479			CK73GB1A105K	CHIP C 1.0UF K		R53			RK73PB2H561J	CHIP R 560 J 1/2W	
C480			CD04AS1V100M	ELECTRO 10UF 35WV	M1M4	R70			RK73GH2A104D	CHIP R 100K D 1/10W	M1M4
C480			CD04AT1C100M	ELECTRO 10UF 16WV	M5M6	R71			RK73GH2A333D	CHIP R 33K D 1/10W	M1M4
C481,482			CD04AS1H2R2M	ELECTRO 2.2UF 50WV	M1M4	R72			RK73GH2A123D	CHIP R 12K D 1/10W	M1M4
C481,482			CD04AT1H2R2M	ELECTRO 2.2UF 50WV	M5M6	R73			RK73GH2A183D	CHIP R 18K D 1/10W	M1M4
C483-487			CK73GB1A105K	CHIP C 1.0UF K		R74			RK73GB2A102J	CHIP R 1.0K J 1/10W	M1M4
C488,489			CD04AS1H2R2M	ELECTRO 2.2UF 50WV		R75,76			RK73EB2E271J	CHIP R 270 J 1/4W	M1M4
C490,491			CK73GB1A105K	CHIP C 1.0UF K		R77			RS14DB3AR47J	FL-PROOF RS 0.47 J 1W	M1M4
C492			CD04AT1C470M	ELECTRO 47UF 16WV		R78			RK73GB2A473J	CHIP R 47K J 1/10W	M1M4
C493,494			CK73GB1A474K	CHIP C 0.47UF K		R79,80			RK73EB2E271J	CHIP R 270 J 1/4W	M1M4
C500			CC73GCH1H220J	CHIP C 22PF J		R120,121			RK73GB2A103J	CHIP R 10K J 1/10W	
C501			CC73GCH1H180J	CHIP C 18PF J		R126			RK73GB2A183J	CHIP R 18K J 1/10W	
C502			CK73GB1C104K	CHIP C 0.10UF K		R127			RK73FB2B203J	CHIP R 20K J 1/8W	
C503-508			CK73GB1H103K	CHIP C 0.010UF K		R128			RK73GB2A104J	CHIP R 100K J 1/10W	
C509			CK73GB1A105K	CHIP C 1.0UF K		R129			RK73EB2E473J	CHIP R 47K J 1/4W	
C510			CD04AS1C220M	ELECTRO 22UF 16WV	M1M4	R130			RK73EB2E102J	CHIP R 1.0K J 1/4W	
C510			CD04AT0J220M	ELECTRO 22UF 6.3WV	M5M6	R131			RK73GB2A473J	CHIP R 47K J 1/10W	
C511-513			CK73GB1H103K	CHIP C 0.010UF K		R132			RK73FB2B683J	CHIP R 68K J 1/8W	
C514			CK73GB1H102K	CHIP C 1000PF K							
C515			CK73GB1H103K	CHIP C 0.010UF K							

M1 : DPX-MP5110U M4 : DPX-MP5110US M5 : DPX-MP3110 M6 : DPX-MP3110S

ΔIndicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-573x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R133,134 R140 R141,142 R143 R144,145			RK73EB2E102J RK73GB2A223J RK73PB2H561J RK73FB2B472J RK73PB2H561J	CHIP R 1.0K J 1/4W CHIP R 22K J 1/10W CHIP R 560 J 1/2W CHIP R 4.7K J 1/8W CHIP R 560 J 1/2W		R470,471 R472 R473,474 R475-478 R479			RK73GB2A102J RK73EB2E471J RK73GB2A103J RK73GB2A101J RK73EB2E2R2J	CHIP R 1.0K J 1/10W CHIP R 470 J 1/4W CHIP R 10K J 1/10W CHIP R 100 J 1/10W CHIP R 2.2 J 1/4W	M1M4
R150 R151,152 R153 R170 R171			RK73GB2A223J RK73PB2H221J RK73FB2B472J RK73GB2A473J RK73GB2A104J	CHIP R 22K J 1/10W CHIP R 220 J 1/2W CHIP R 4.7K J 1/8W CHIP R 47K J 1/10W CHIP R 100K J 1/10W		R480 R500 R501 R503 R504			RK73GB2A101J RK73EB2E102J RK73GB2A473J RK73GB2A222J RK73GB2A102J	CHIP R 100 J 1/10W CHIP R 1.0K J 1/4W CHIP R 47K J 1/10W CHIP R 2.2K J 1/10W CHIP R 1.0K J 1/10W	M1M4
R172 R180 R181 R201,202 R203			RK73EB2E103J RK73GB2A104J RK73EB2E103J RK73GB2A203J RK73GB2A123J	CHIP R 10K J 1/4W CHIP R 100K J 1/10W CHIP R 10K J 1/4W CHIP R 20K J 1/10W CHIP R 12K J 1/10W		R505 R506,507 R508 R509 R511			RK73GB2A101J RK73GB2A103J RK73GB2A104J RK73GB2A102J RK73GB2A104J	CHIP R 100 J 1/10W CHIP R 10K J 1/10W CHIP R 100K J 1/10W CHIP R 1.0K J 1/10W CHIP R 100K J 1/10W	
R204 R205,206 R207,208 R209,210 R211,212			RK73GB2A752J RK73GB2A473J RK73GB2A303J RK73GB2A332J RK73GB2A752J	CHIP R 7.5K J 1/10W CHIP R 47K J 1/10W CHIP R 30K J 1/10W CHIP R 3.3K J 1/10W CHIP R 7.5K J 1/10W		R512 R513 R514 R515 R516			RK73GB2A101J RK73GB2A472J RK73GB2A104J RK73GB2A471J RK73GB2A104J	CHIP R 100 J 1/10W CHIP R 4.7K J 1/10W CHIP R 100K J 1/10W CHIP R 470 J 1/10W CHIP R 100K J 1/10W	
R213 R214 R215,216 R320,321 R322			RK73GB2A222J RK73GB2A122J RK73GB2A472J RK73GB2A334J RK73GB2A473J	CHIP R 2.2K J 1/10W CHIP R 1.2K J 1/10W CHIP R 4.7K J 1/10W CHIP R 330K J 1/10W CHIP R 47K J 1/10W		R517 R518-521 R522-525 R526 R529			RK73GB2A471J RK73GB2A472J RK73GB2A101J RK73GB2A104J RK73GB2A473J	CHIP R 470 J 1/10W CHIP R 4.7K J 1/10W CHIP R 100 J 1/10W CHIP R 100K J 1/10W CHIP R 47K J 1/10W	
R323 R324 R325 R326 R327			RK73GB2A333J RK73GB2A473J RK73GB2A821J RK73GB2A104J RK73GB2A102J	CHIP R 33K J 1/10W CHIP R 47K J 1/10W CHIP R 820 J 1/10W CHIP R 100K J 1/10W CHIP R 1.0K J 1/10W		R530,531 R532 R533 R533,534 R535,536			RK73GB2A104J RK73GB2A102J RK73GB2A473J RK73GB2A223J RK73GB2A472J	CHIP R 100K J 1/10W CHIP R 1.0K J 1/10W CHIP R 47K J 1/10W CHIP R 22K J 1/10W CHIP R 4.7K J 1/10W	M1M4 M5M6
R328 R329 R331 R332 R340			RK73GB2A473J RK73GB2A103J RK73GB2A103J RK73GB2A101J RK73GB2A223J	CHIP R 47K J 1/10W CHIP R 10K J 1/10W CHIP R 10K J 1/10W CHIP R 100 J 1/10W CHIP R 22K J 1/10W		R537,538 R539 R540 R542 R544,545			RK73GB2A101J RK73GB2A102J RK73GB2A222J RK73GB2A473J RK73GB2A103J	CHIP R 100 J 1/10W CHIP R 1.0K J 1/10W CHIP R 2.2K J 1/10W CHIP R 47K J 1/10W CHIP R 10K J 1/10W	
R341 R400-403 R404-407 R408-411 R420			RK73FB2B821J RK73FB2B181J RK73GB2A223J RK73GB2A361J RK73EB2E432J	CHIP R 820 J 1/8W CHIP R 180 J 1/8W CHIP R 22K J 1/10W CHIP R 360 J 1/10W CHIP R 4.3K J 1/4W		R550 R551 R552 R553 R554			RK73EB2E100J RK73EB2E4R7J RK73EB2E100J RK73GB2A102J RK73GB2A103J	CHIP R 10 J 1/4W CHIP R 4.7 J 1/4W CHIP R 10 J 1/4W CHIP R 1.0K J 1/10W CHIP R 10K J 1/10W	
R421,422 R423 R424,425 R426 R427			RK73EB2E101J RK73EB2E432J RK73EB2E101J RK73EB2E100J RK73EB2E4R7J	CHIP R 100 J 1/4W CHIP R 4.3K J 1/4W CHIP R 100 J 1/4W CHIP R 10 J 1/4W CHIP R 4.7 J 1/4W		R555 R556,557 R660,661 R662 R663			RK73GB2A473J RK73GB2A103J RK73GB2A102J RK73GB2A104J RK73GB2A473J	CHIP R 47K J 1/10W CHIP R 10K J 1/10W CHIP R 1.0K J 1/10W CHIP R 100K J 1/10W CHIP R 47K J 1/10W	M5M6 M5M6 M5M6
R428 R429,430 R431 R432-435 R451			RK73EB2E100J RK73EB2E101J RK73GB2A102J RK73GB2A104J RK73GB2A473J	CHIP R 10 J 1/4W CHIP R 100 J 1/4W CHIP R 1.0K J 1/10W CHIP R 100K J 1/10W CHIP R 47K J 1/10W		R664 R680,681 R682 R690-695 R690-698			RK73GB2A101J RK73GB2A101J RK73GB2A473J RK73GB2A101J RK73GB2A101J	CHIP R 100 J 1/10W CHIP R 100 J 1/10W CHIP R 47K J 1/10W CHIP R 100 J 1/10W CHIP R 100 J 1/10W	M5M6 M1M4 M1M4 M1M4 M5M6
R453 R454 R455 R457 R459,460			RK73GB2A221J RK73GB2A432J RK73GB2A100J RK73GB2A333J RK73GB2A000J	CHIP R 220 J 1/10W CHIP R 4.3K J 1/10W CHIP R 10 J 1/10W CHIP R 33K J 1/10W CHIP R 0.0 J 1/10W		R697,698 R700-702 R800-805 R806			RK73GB2A101J RK73GB2A473J RK73GB2A000J RK73EB2E000J	CHIP R 100 J 1/10W CHIP R 47K J 1/10W CHIP R 0.0 J 1/10W CHIP R 0.0 J 1/4W	M1M4 M1M4

M1 : DPX-MP5110U M4 : DPX-MP5110US M5 : DPX-MP3110 M6 : DPX-MP3110S

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-573x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
D1 D20 D21 D30 D45			S2V60-5009F46 RB160L-40 UDZW5.6(B) UDZW8.2(B) UDZW20(B)	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE	M1M4
D50 D51 D70 D121,122 D123		*	UDZW10(B) 1SS355 RB160L-40 UDZW6.8(B) UDZW6.2(B)	ZENER DIODE DIODE DIODE ZENER DIODE ZENER DIODE	M1M4
D140 D141,142 D150,151 D170 D320			1SS355 1SR154-400 1SR154-400 UDZW4.7(B) DA204U	DIODE DIODE DIODE ZENER DIODE DIODE	
D402,403 D420-422 D423-428 D460 D470-472			DAP202U UDZW6.8(B) UDZW6.2(B) 1SS355 DAP202U	DIODE ZENER DIODE ZENER DIODE DIODE DIODE	
D473 D474-477 D500 D550-552 IC10			UDZW3.3(B) UDZW5.6(B) UDZW6.2(B) UDZW6.8(B) M5237ML-CF0J	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ANALOGUE IC	M1M4
IC70 IC200 IC201 IC320 IC450	3D	*	Impossible to replace NJM2706VE-ZA 74HC2G66DP NJM4565V-ZB KKZ11Z	ANALOGUE IC (See exploded view) ANALOGUE IC MOS-IC ANALOGUE IC ANALOGUE IC	M1M4
IC470 IC500 IC500 IC501 IC502		*	E-TDA7415CB 30624MWPB71GP 30624MWPB72GP XC6120N362N1 74HC2G02DP	ANALOGUE IC MICROCONTROLLER IC MICROCONTROLLER IC MOS-IC MOS-IC	M1M4 M5M6
IC690 IC691 Q10 Q11,12 Q20			74LVC08APW 74AHCT08PW KTA1046-P UMC2N KTA1046-P	MOS-IC MOS-IC TRANSISTOR TRANSISTOR TRANSISTOR	
Q21 Q22 Q23 Q30 Q31			2SC4081 2SA1577 DTC124EUA KTA1046-P 2SC4081	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR	
Q45 Q46 Q50 Q51 Q52			2SB1443 2SC4081 KTA1046-P 2SC4081 UMC2N	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	M1M4 M1M4
Q120 Q122,123 Q140 Q141 Q142			2SC4081 2SC4081 DTC114YUA DTA114EUA 2SA1576A	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
Q143 Q150 Q151 Q180 Q200,201			2SB1188(Q,R) 2SB1188(Q,R) DTC114YUA DTC144EUA DTC124EUA	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
Q320 Q340 Q341 Q400-403 Q404,405			2SC4617 2SA1577 DTC124EUA DTC143TUA DTA124EUA	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
Q550 Q551 Q690			DTA124EUA 2SA1576A DTC114YUA	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	
A340	2C		X86-4160-11	FRONT-END UNIT	
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	*	D13-2400-23	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	

M1 : DPX-MP5110U **M4** : DPX-MP5110US **M5** : DPX-MP3110 **M6** : DPX-MP3110S

△Indicates safety critical components.

PARTS LIST

MECHANISM ASSY (X92-6130-00) DXM-6E20W

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
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							

M1 : DPX-MP5110U M4 : DPX-MP5110US M5 : DPX-MP3110 M6 : DPX-MP3110S

△ Indicates safety critical components.

SPECIFICATIONS

FM tuner section

Frequency range	
200 kHz space	87.9 MHz – 107.9 MHz
50 kHz space	87.5 MHz – 108.0 MHz
Usable sensitivity (S/N = 30dB)	9.3dBf (0.8 μ V/75 Ω)
Quieting Sensitivity (S/N = 50dB)	15.2dBf (1.6 μ V/75 Ω)
Frequency response (± 3 dB)	30 Hz – 15 kHz
Signal to Noise ratio (MONO)	70 dB
Selectivity (± 400 kHz)	≥ 80 dB
Stereo separation (1 kHz)	40 dB

AM tuner section

Frequency range	
10 kHz space	530 kHz – 1700 kHz
9 kHz space	531 kHz – 1611 kHz
Usable sensitivity (S/N = 20dB)	28 dB μ (25 μ V)

CD player section

Laser diode	GaAlAs
Digital filter (D/A)	8 Times Over Sampling
D/A Converter	24 Bit
Spindle speed	500 – 200 rpm (CLV)
Wow & Flutter	Below Measurable Limit
Frequency response (± 1 dB)	10 Hz – 20 kHz
Total harmonic distortion (1 kHz)	0.008 %
Signal to Noise ratio (1 kHz)	105 dB
Dynamic range	93 dB
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 (DPX-MP5110U/US)

USB Standard	USB1.1/ 2.0
Maximum Supply current	500 mA
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	50 W x 4
Full Bandwidth Power (at less than 1% THD)	22 W x 4
Speaker Impedance	4 – 8 Ω
Tone action	
Bass	100 Hz ± 8 dB
Middle	1 kHz ± 8 dB
Treble	10 kHz ± 8 dB
Preout level / Load (CD)	2500 mV/10 k Ω
Preout impedance	$\leq 600 \Omega$

Auxiliary input

Frequency response (± 1 dB)	20 Hz – 20 kHz
Input Maximum Voltage	1200 mV
Input Impedance	10 k Ω

General

Operating voltage (11 – 16V allowable)	14.4 V
Current consumption	10 A
Installation Size (W x H x D)	178 x 100 x 155 mm
Weight	
DPX-MP5110U/US	1.60 kg
DPX-MP3110/S	1.55 kg

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

DANGER:

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

