

CD/USB RECEIVER

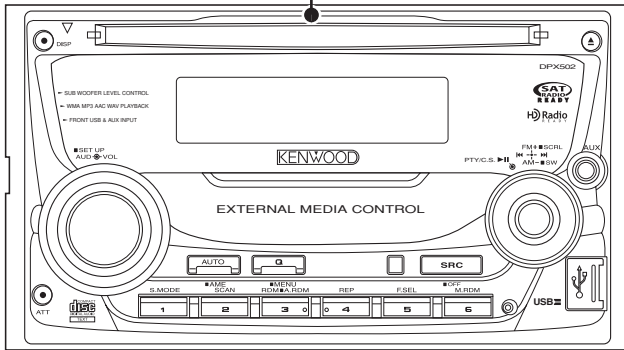
DPX502 DPX502U/DPX502UY DPX-MP5100U SERVICE MANUAL

KENWOOD

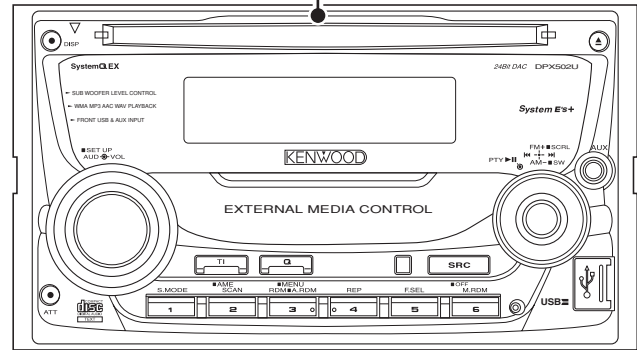
Kenwood Corporation

© 2007-7 PRINTED IN JAPAN
B53-0556-00 (N) 521

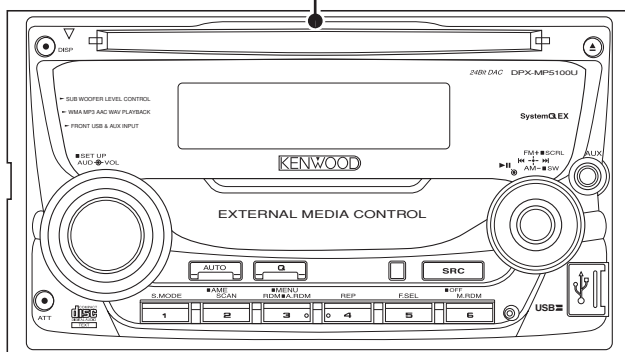
Panel assy
DPX502 (A64-4096-02)



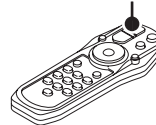
Panel assy
DPX502U/DPX502UY (A64-4098-02)



Panel assy
DPX-MP5100U (A64-4097-02)

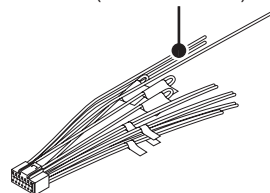


Remote controller assy (RC-547)
(A70-2085-05)

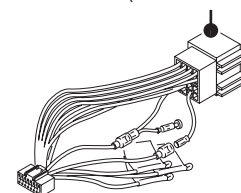


Battery
(Not supplied)

* DC cord
(E30-6428-05)



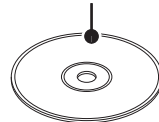
* DC cord
(E30-6671-05)



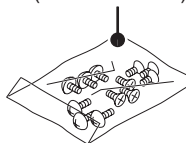
* Adhesive double-coated tape
(H30-0595-04)



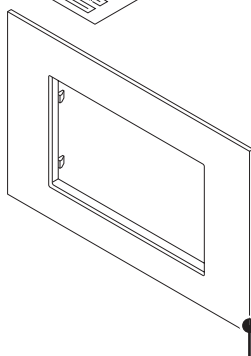
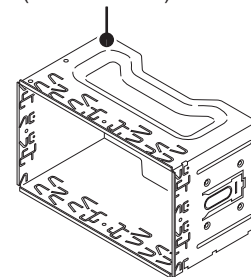
Compact disc
(W01-1704-05)



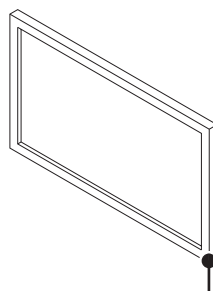
* Screw set
(N99-1779-05)



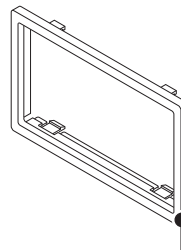
* Mounting hardware assy
(J22-0429-13)



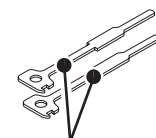
* Escutcheon
(B07-3172-12)



* Escutcheon assy
(B07-3046-04)



* Escutcheon
(B07-3165-02)

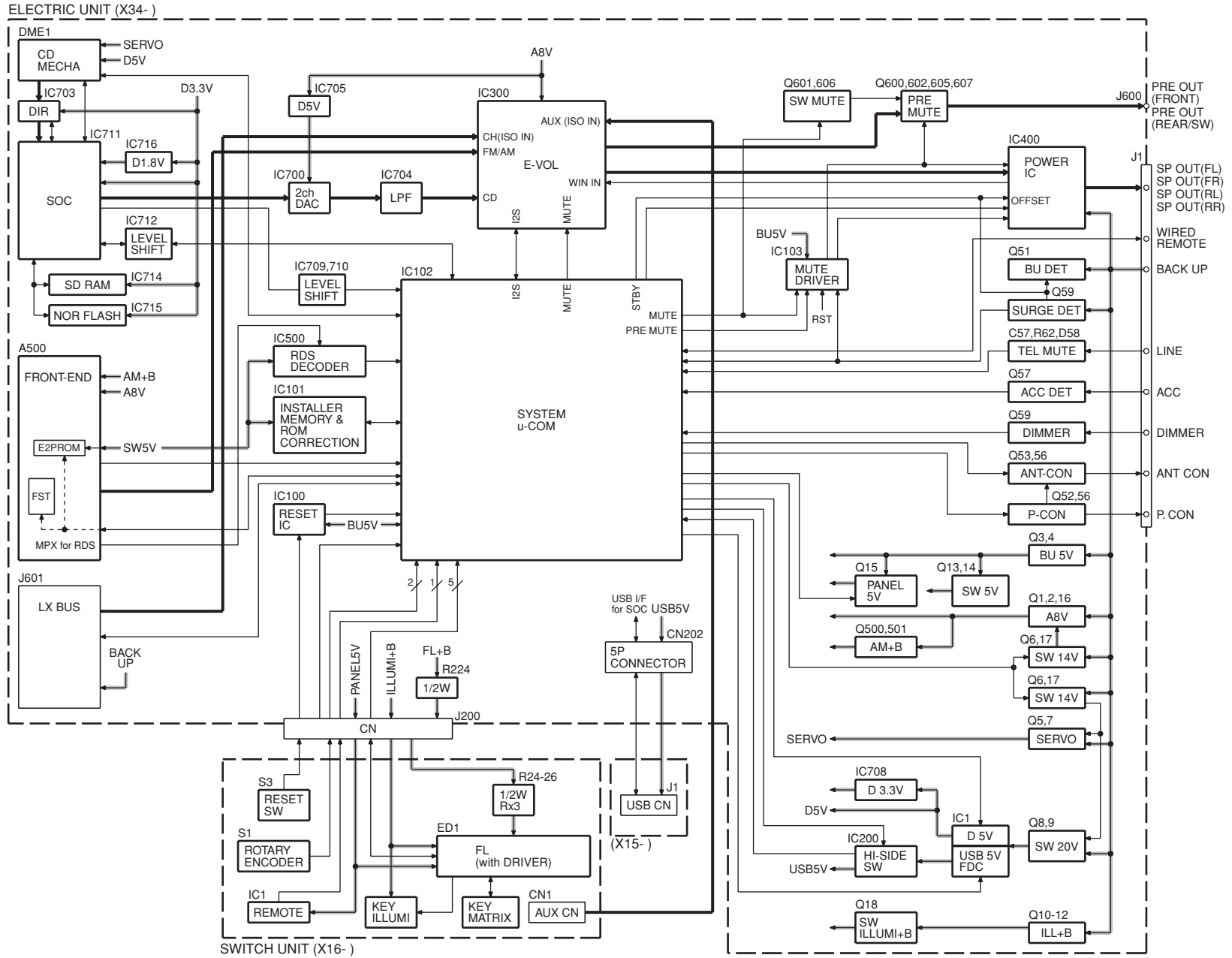


* Lever
(D10-4589-04) x2

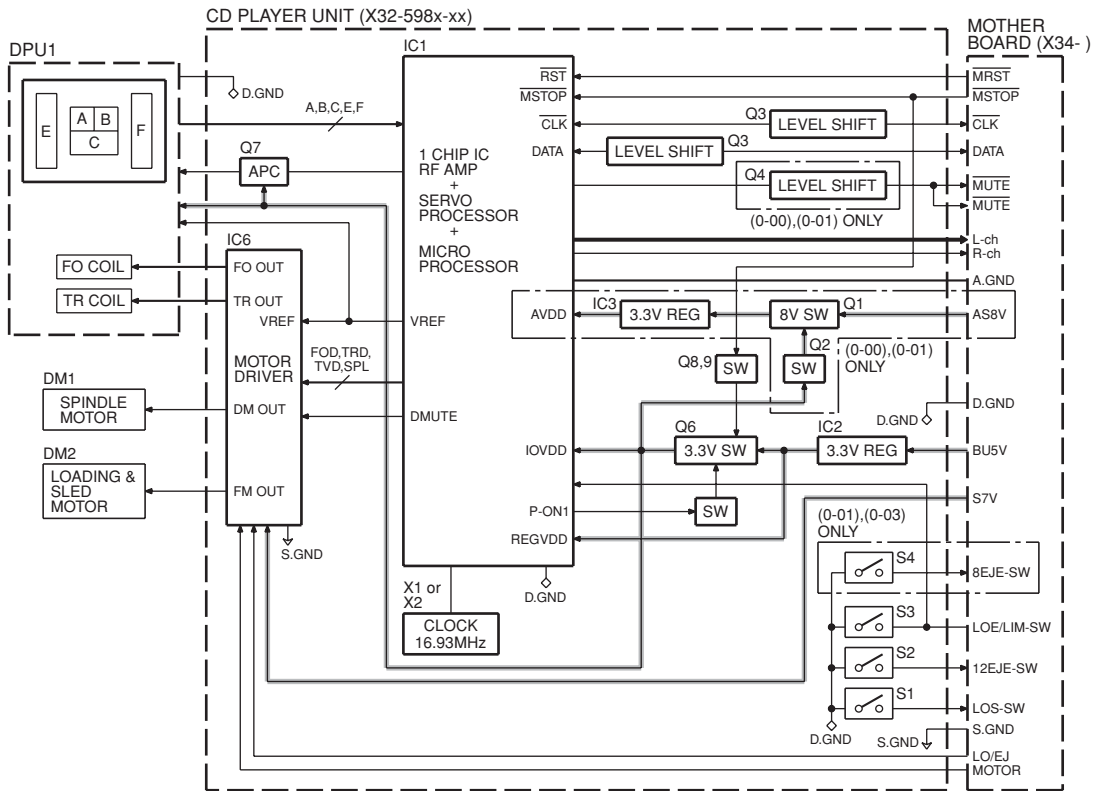


This product uses Lead Free solder.
This product complies with the **RoHS** directive for the European market.

BLOCK DIAGRAM



BLOCK DIAGRAM



COMPONENTS DESCRIPTION

● ELECTRIC UNIT (X34-560x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	SW Regulator	Outputs 5.0V. Power supply for D5V, FL+B and USB5V
IC2	A8V REF Power Supply	Outputs 1.27V
IC100	Reset IC	Lo when detection voltage goes below 3.6V
IC101	E2PROM	For installer memory and ROM correction
IC102	System μ -COM	Controls FM/AM tuner, the changer, CD mechanism, USB, panel, volume and tone
IC103	Muting Logic IC	Controls muting logic
IC200	Hi-side SW	Over-current protection of USB power supply When pin1 goes Hi , USB5V is ON
IC300	E-VOL	Controls the source, volume and tone
IC400	Power IC	Amplifies the front L/R and the rear L/R to maximum 50W
IC500	RDS Decoder	For RDS
IC700	D/A Converter	For CD and USB Source
IC702	iPod Authentication Coprocessor	For iPod authentication
IC703	Digital Audio Receiver	For CD source
IC704	OP-AMP	LPF
IC705	Point Regulator	Outputs 5.0V. Power supply for D/A converter
IC708	DC Voltage Regulator	Outputs 3.3V. Power supply for 3.3V
IC709,710	Inverted 3-State Output	It converts 3.3V to 5V
IC711	System On Chip	It can decode MP3 or other types file of audio/decompression standards by software based architecture
IC712	Quad 2-Input AND Gate	It converts 5V to 3.3V
IC714	SD RAM	For System On Chip (IC711)
IC715	NOR Flash ROM	For System On Chip (IC711)
IC716	LDO Regulator	Outputs 1.8V. Power supply for System On Chip (IC711)
Q1,2,16	AUDIO8V AVR	When Q16's base goes Hi, A8V AVR outputs 8.0V
Q3,4	BU5V AVR	While BU is applied, BU5V AVR outputs +5V
Q5,7	SERVO+B AVR	When Q7's base goes Hi, SERVO+B AVR outputs 7.5V
Q6,17	SW14V	When Q17's base goes Hi, SW14V outputs 14V
Q8,9	Serge Protect for IC1	Outputs 20V when BU is over 20V
Q10~12,18	ILL+B AVR	When Q18's base goes Hi, ILL+B outputs 10.5V
Q13,14	SW5V	When Q14's base goes Hi, SW5V outputs +5V
Q15	PANEL 5V	When the base goes Lo, PANEL 5V outputs 5V
Q50,58	P-CON SW	When Q50's base goes Hi, AVR outputs 14V
Q51	BU DET	When the base goes Hi, Q51 is turned ON
Q52,54	P-CON Protection	When P-CON output voltage decrease is detected, output protection is made. When P-CON SW is ON, malfunction of Q58 is protected
Q53,56	P-ANT SW	When Q53's base goes Hi, P-ANT SW outputs 14V
Q57	ACC DET	When the base goes Hi, Q57 is turned on
Q59	Serge DET	When the base goes Hi, BU DET is turned off
Q60	Small Lamp DET SW	When the base goes Hi, Q60 is turned on
Q500,501	AM+B	When Q501's base goes Hi, AM+B is output

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q601,606	Pre-out Mute Driver	When a base goes Lo, mute driver is turned on
Q600,602,605,607	Pre-out Mute SW	When a base goes Hi, pre-out is muted
Q704,706	M-RST Converter	It converts 3.3V to 5V

● SWITCH UNIT (X16-614x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	Remote Control IC	
Q1-3	Grid Driver	When each transistor's base is Lo, grid is ON
Q12	VFD Restart	In condition of the base is Hi, key-scan starts at the same time as POWER_ON

● CD PLAYER UNIT (X32-5980-02)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	CD Signal Processor & MECHA μ-COM RF Amplifier responding to CD-RW	Focusing, tracking, sled and spindle servo processing. Automatic adjustment (focusing, tracking, gain, offset and balance) operations. Digital signal processing (DSP, PLL, sub-codes, CIRC error correction, audio data interpolation processing) operations, and microcomputer function. Generation of RF signal based on the signals from the APC circuit and the laser pick-up, and generation of servo error (focusing error and tracking error) signals. Detection of dropout, anti-shock, track crossing and off-tracking conditions, included gain control function during CD-RW.
IC2	3.3V REG	Supplies 3.3V to IC1 and the laser pick-up.
IC6	4ch BTL Driver	Focusing and tracking coil, sled and spindle motor driver, disc loading and eject operation.
Q3	5V-3.3V Level Shift	Shifts 5V to 3.3V, or 3.3V to 5V.
Q6	BU3.3V SW	Q6 is ON when Q8 or Q9 is ON.
Q7	APC (Auto Power Control)	Drives LD (Laser Diode).
Q8	Power Supply Control	Power Supply Control from MECHA μ-COM. Q6 is ON when pin 63 (P ON1) of IC1 is Hi.
Q9	Power Supply Control	Power Supply Control from system μ-COM. Q6 is ON when pin 125 (MSTOP) of IC1 is Hi.
D1,2	5V Force Voltage Prevention	5V Force Voltage Prevention from MECHA μ-COM side.
D3	Laser Diode Protection	Prevents reverse bias which is applied to laser. Laser destruction prevention.

MICROCOMPUTER'S TERMINAL DESCRIPTION

● SYSTEM μ -COM: IC102 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 and panel remote control input		
2	LX REQ M	O	Communication request to slave unit		
3	LX MUTE	I	Mute request from slave unit		H: Mute ON, L: Mute OFF
4	LX CON	O	Start-up request to slave unit		H: Slave unit ON, L: Slave unit OFF
5	LX RST	O	Forced reset to slave unit		H: Reset, L: Normal
6	BYTE	-	GND		
7	CNVSS	-	Pull-down		
8	XCIN	-	Sub clock (32.768kHz)		
9	XCOU	-	Sub clock (32.768kHz)		
10	$\overline{\text{RESET}}$	-			
11	XOUT	-	Main clock (12.00MHz)		
12	VSS	-	GND		
13	XIN	-	Main clock (12.00MHz)		
14	VCC1	-			
15	NMI	-	Pull-up		
16	LX REQ S	I	Communication request from slave unit		
17	RDS CLK	I	RDS decoder clock input		
18	NC	-	Not used		Output L fixed
19	PON AM	I/O	AM power supply control		Receiving AM: H, Not receiving AM: 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 switching		
22	RDS QUAL	I	RDS decoder QUAL input		
23	RDS DATA	I	RDS decoder data input		
24	USB SYNC	O	Clock output for SW-REG		
25	NC	-	Not used		Output L fixed
26	PWIC BEEP	O	Beep output		
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		Data input/output
30	VFD INT	I	VFD INT input		INT input
31	VFD CLK	O	VFD clock output (125kHz)		
32	VFD RST	O	VFD reset		H: Reset released, L: Reset Momentary power down, Panel detached, 11 minute after ACC OFF: L
33	S SYS DATA	O	Data output from system μ -com to SOC		
34	S SOC DATA	I	Data input from SOC to system μ -com		
35	S SOC SCL	I	Clock input from SOC to system μ -com		
36-38	NC	-	Not used		Output L fixed
39	ROMCOR DET	I	E2PROM writing request		H: Writing

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing / Operation / Description
40	NC	-	Not used		Output L fixed
41	CD DISC12 SW	I	12cm-disc detection		
42	CD LOS SW	I	CD loading detection		
43	CD MUTE	I	CD mute request		L: Mute request, H: Normal
44	VFD CS	O	VFD control request		H: VFD data can be transferred
45	SOC S RST	O	SOC reset		H: Normal, L: Reset
46	SOC S STOP	O	SOC stop		H: Normal, L: SOC stopped
47	CD DISC8 SW	I	8cm-disc detection		
48	CD LOE LIM SW	I	CD detection (Chucking SW)		H: Loading completed, L: No disc
49	CD LOEJ	I/O	CD motor control	①	Refer to the truth value table
50	CD MOTOR	O	CD motor control	①	Refer to the truth value table
51	ROTARY CW	I	VOL key detection		Detects pulse width
52	ROTARY CCW	I	VOL key detection		Detects pulse width
53	PON PANEL	I/O	Panel 5V power supply control		ON (For 11 minutes after ACC OFF): L Momentary power down, panel detached, 11 minute after ACC OFF: Hi-Z
54	PON FL+B	I/O	FL display filament power supply control		H: ON, Hi-Z: OFF
55	SW USB	I/O	V-BUS 5V control		H: ON, Hi-Z: OFF Depends on command from SOC
56	NC	-	Not used		Output L fixed
57	PON ILL	O	Key illumination power supply		H: Power ON, L: Power OFF
58,59	NC	-	Not used		Output L fixed
60	VCC2	-			
61	PON	O	Power supply control		H: Power ON, L: Power OFF
62	VSS	-	GND		
63	TYPE 1	I	Destination switching	②	Refer to the truth value table
64	TYPE 2	I	Destination switching	②	Refer to the truth value table
65	NC	-	Not used		Output L fixed
66	PCON	O	External amplifier control		
67~69	NC	-	Not used		Output L fixed
70	ANT CON	O	Power antenna control		Tuner ON: H
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	Momentary power-down detection		BU found: L, Momentary power down: H
74	ILLUMI DET	I	Dimmer illumination detection		L: ON, H: OFF
75	S SYS REQ	O	Communication request from system μ -com to SOC		
76	S SOC REQ	I	Communication request from SOC to system μ -com		
77	PWIC MUTE	O	Power IC mute control		
78	PWIC STBY	O	Power IC standby control		

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing / Operation / Description
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		
83	NC	-	Not used		Output L fixed
84	MUTE AFS	I/O	AFS mute		L: Mute ON, HI-Z: Mute OFF (European model)
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 FR		L when mute is L (CD playing), momentary power down: L Dual Zone: H fixed
89	MUTE PRE SW	O	Pre-out mute SW		L: Mute, H: Mute OFF
90,91	NC	-	Not used		Output L fixed
92	RDS NOISE	I	FM noise detection		
93	TUN SMETER	I	S-meter input		
94	AVSS	-	GND		
95	NC	-	Not used		Output L fixed
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 (Pin50)	CD LOEJ (Pin49)
Stop	L	L
Load	H	L
Eject	H	H
Brake	H	Hi-Z

② Destination switching

TYPE 2 (Pin64)	TYPE 1 (Pin63)	MODEL	DESTI.
0V	5V	DPX502	K
1.5V	5V	DPX-MP5100U	M
2.5V	5V	DPX502U	E
3.4V	5V	DPX502UY	E2
5V	0V	DPX-U77	J

TEST MODE

● How to enter the test mode

Press and hold the [1] and [3] keys and reset.
(While “- - -” is being displayed, power can be ON for 30 minutes.)

● How to clear the test mode

Reset, momentary power down, Acc OFF, Power OFF, detach the panel.

● Test mode default condition

- Source is STANDBY.
- Display lights are all turned on.
- The volume is at 30 (-10dB).
- LOUD is OFF.
- CRSC is off regardless of the availability of switching function.
- SYSTEM Q is NATURAL (=FLAT).
- BEEP should always function when the key is pressed briefly.
- AUX is ON.

● Specification of the test mode for tuner source

The frequency of 98.3MHz is received when the [4] key is pressed in the TUNER FM mode

● Specification of FST soft mute adjustment mode

1. Receive the TUNER FM mode in the VOLUME 30 and LOUD OFF condition.
2. Press and hold the [▶|] key for 2 seconds to enter the FST soft mute adjustment mode.
3. In the adjustment mode, the following display is shown. Adjust the mute between 0 (18dBu) and F (36dBu) with the [FM] / [AM] keys.
(Display) SMD-x___ (Adjustment value, 0~F is displayed in “x”).
4. When the adjustment is “OK”, press and hold the [▶|] key for 2 seconds again to write the adjustment value in the E2PROM, and after the successful writing-in the “EP_WRITE” is displayed.
5. Press the [▶|] key briefly to exit from the FST soft mute adjustment mode.
(The test mode continues.)

● Special display in tuner mode

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

- “TNE2P_NG” : E2PROM (in front-end: A500 of X34-) values are still default (not determined)

- “TNCON_NG” : Cannot communicate with the front-end.

● RDS/RBDS automatic measurement

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

When it is confirmed that the PS data has been received and that the content of the PS is “RDS_TEST”, force to OFF the P-CON terminal. (The symbol, “_” indicates the blank.)

- Make this as the process dedicated for the test mode.
P-CON is recovered by Power OFF→ON.

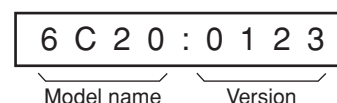
● K3I forced switching

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

- AUTO: FM1_98.1A • Forced WIDE: FM1_98.1W
- Forced MIDDLE: FM1_98.1M • Forced NARROW: FM1_98.1N

● CD source test mode specification

- Display mode default setting shall be P-TIME.
- Jumps to the following tracks by pressing the [▶▶] key.
No.9→No.15→No.10→No.11→No.12→No.13→No.22→No.14→No.9 (recursive)
Note that when playing a CD-DA disc and MP3 / WMA / AAC / WAV discs with 8 files or less, the disc is played from the 1 track in the normal order.
- Pressing the [◀◀] key goes back by 1 track from the track being played.
- When playing an MP3 / WMA / AAC/WAV disc, display the file format before starting to play each file.
(“MP3”, “WMA”, “AAC”, “WAV”)
- While in CD source, press the [1] key briefly to jump to No.28.
- While in CD source, press the [2] key briefly to jump to No.14.
- While in CD source, press the [3] key briefly to display CD mechanism model name and the version.
Press the [3] key briefly again to return to the normal display. (Time code display)



- While in CD source, press the [6] key briefly to jump to No.15. At this time, the volume value is set to 25 (2V PRE).

TEST MODE

● AUDIO adjust mode

- Press the [AUD] key and enter the audio adjustment mode.
- Press the remote control [*] key and [AUD] key to enter the audio adjustment mode.
- Both AUDIO FUNCTION MODE and SETUP MODE adjustment items are included.
- By pressing [AUD] and [FM] key briefly, switch the item to be adjusted in the following order. (Only in forward rotation)

The default item shall be Fader, and then the item is forwarded in the following order: Balance → Bass Level → Middle Level → Treble Level → HPF Front → HPF Rear → LPF Sub Woofer. (thereafter arbitrary)

- Continuous forwarding by remote control is prohibited.
- Fader is adjusted by the VOL knob and [◀◀] / [▶▶] keys in 3 steps: R15 ↔ 0 ↔ F15. (Default value: 0)
- Balance is adjusted by the VOL knob and [◀◀] / [▶▶] keys in 3 steps: L15 ↔ 0 ↔ R15. (Default value: 0)
- Sub Woofer Level is adjusted by the VOL knob and [◀◀] / [▶▶] keys in 3 steps: -15 ↔ 0 ↔ +15. (Default value: 0)
- Bass/Middle/Treble Level are adjusted by the VOL knob and [◀◀] / [▶▶] keys in 3 steps: -8 ↔ 0 ↔ +8. (Default value: 0)
- HPF Front / Rear is adjusted by the VOL knob and [◀◀] / [▶▶] keys in 2 steps: Through ↔ 220Hz. (Default value: Through)
- LPF Sub Woofer is adjusted by the VOL knob and [◀◀] / [▶▶] keys in 2 steps: 50Hz ↔ Through. (Default value: Through)
- Sub Woofer Phase is adjusted by the VOL knob and [◀◀] / [▶▶] keys in 2 steps: Reverse ↔ Normal. (Default value: Normal)
- Volume Offset (other than the internal AUX) is adjusted by the VOL knob and [◀◀] / [▶▶] keys in 2 steps: -8 ↔ 0. (Default value: 0)
- Volume Offset (the internal AUX) is adjusted by the VOL knob and [◀◀] / [▶▶] keys in 3 steps: -8 ↔ 0 ↔ +8. (Default value: 0)
- Loudness ON/OFF is adjusted by the VOL knob and [◀◀] / [▶▶] keys in 2 steps: OFF ↔ ON. (Default value: OFF)
- Dual Zone ON/OFF is adjusted by the VOL knob and [◀◀] / [▶▶] keys in 2 steps: OFF ↔ ON. (Default value: OFF)
- Bass f / Bass Q / Bass EXT / Middle f / Middle Q / Treble f are not displayed in the audio adjustment menu.

● MENU

- Press [Q] key briefly to enter the MENU.
- Press the remote control [DNPP/SBF] key and the [DIRECT] key to enter the MENU.
- Continuous forwarding by remote control is prohibited.
- Only in the test mode, make the USB source MENU show the F/W Version check item and make the F/W Version be shown as the initial items in the test mode.
- In the test mode, MENU initial item of TUNER source is Local Seek ON/OFF switching item. (DPX502U/DPX502UY only).

● Dual Zone

- If the [AUTO] or [TI] keys is pressed briefly while in a source other than STANDBY, Dual Zone is switched between ON / OFF.

● Backup current measurement

If reset while in Acc OFF (Back Up ON) condition, MUTE terminal goes off 2 seconds later, rather than 15 seconds. (During this time, the CD mechanism does not function.)

● Special displays while all lights are on

When all lights are on with STANDBY source, if the following keys are pressed, the following messages are displayed.

[1] key	Key pressed briefly: Version is displayed (forwarding) (Display) TYPE : xx__ → 685K-1.02 → All lights are on → ("xx" is displayed in hexadecimal.) ["Development name" – "version"] * TYPE indicates μ-com destination, and shows real-time condition of the destination terminal.
[2] key	Key pressed briefly: Serial No. is displayed (8 digits) (Display) xxxxxxxx
[3] key	Key pressed briefly: Power ON time is displayed. Press and hold: To clear Power ON time (Press and hold for 2 seconds while the Power ON time is displayed.) (Display) PON_0Hxx (00~50 is displayed for "xx". When less than 1 hour, display by increment of 10 minutes.) xxxxx (00001~10922 is displayed for "xxxxx") MAX 10922 (hours)
[4] key	Key pressed briefly: CD operation time displayed. Press and hold: To clear CD operation time (Press and hold for 2 seconds while the CD operation time is displayed.) (Display) CDT_0Hxx (00~50 is displayed for "xx". When less than 1 hour, display by increment of 10 minutes.) xxxxx (00001~10922 is displayed for "xxxxx") MAX 10922 (hours)

TEST MODE

● Clearing backup/installer memory, CD mechanism information, service information and DC offset error detection information (E2PROM data clearing)

1. While pressing the [EQ] key and [ATT] key, reset-start to start backup/installer memory data, CD mechanism information, service information and DC offset error detection information initialization.

(While “— — —” is being displayed, power can be ON for 30 minutes.)

[CD mechanism information]

- Displays I2C communication condition
- Displays CD mechanism error log
- Displays CD loading error data
- Displays CD ejection error data
- Displays CD time code error count data (missing count)
- Displays CD time code error count data (count not updated)

[Service information]

- Displays power ON time is displayed
- Displays CD operation time
- Displays number of CD EJECT times
- Displays number of times panel was opened/closed
- Displays forced Power OFF data

[DC offset error detection information]

- DC offset error detection display 1
- DC offset error detection display 2

2. When initialization is complete, the following display will be made.

Normal completion

CD _ O : A U _ O _

Abnormal ending 1 : backup/installer memory initialization : NG

CD _ O : A U _ X _

Abnormal ending 2 : CD mechanism information/Service information/DC offset error detection information initialization : NG

CD _ X : A U _ O _

Abnormal ending 3 : All initialization : NG

CD _ X : A U _ X

3. While in this mode, even after an elapse of a pre-set time, no backup memory items will be written to the E2PROM.
4. This mode is released by resetting. (The last screen will not be retained.)

(Note) In this mode, the DC offset error detection display “PROTECT” is not shown.

● Clearing DC offset error detection information (E2PROM data clearing)

1. Press and hold [3] and [6] keys and reset-start to go into the DC offset error display mode.
(While “— — —” is being displayed, power can be ON for 30 minutes.)
2. While in STANDBY source, the current overall DC offset error detection condition is displayed.
When not detected: “DC _ _OK _ _” : None of capacitor leak, improper connection, etc. has been detected.
When detected: “DC _ _ERR _ _” : Any one of capacitor leak, improper connection, etc. has been detected.
3. Use the following procedure to check the details of DC offset error detection information.

TEST MODE

[1] key	Key pressed briefly: DC offset error detection display 1 (To show such detection as the improper connection and other detection) Key pressed and held for 2 seconds: Clear the information that indicated if there was such an error as improper connection and other error. (Display) DC1_OK__ (No error was detected) ERR_ (Improper connection or other error is detected.)
[2] key	Key pressed briefly: DC offset error detection display 2 (To show the number of capacitor leaks.) Key pressed and held for 2 seconds: Clear the information that indicates the detected number of capacitor leaks. (Display) DC2_0___ (No error was detected) 1 (Leak was detected once.) 2 (Leak was detected 2 times.) 3 (Leak was detected 3 times.) 4 (Leak was detected 4 times or more.)

4. DC offset error display mode is cancelled by resetting. (The last screen will not be retained.)
(Note) In this mode, the DC offset error detection display "PROTECT" is not shown.

● FM/AM channel space switching (DPX502/DPX-MP5100U only)

While power is OFF, press and hold [1] and [5] keys, and press [SRC] key to power ON.

● Security

• How to enter the forced POWER ON mode

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

• How to register the security code on the "Car Audio Passport" sheet after replacing E2PROM (in the front-end: A500 of X34-) (DPX502U/DPX502UY only)

1. Enter the test mode. (Refer to "How to enter the test mode".)
 2. In the test mode, press [MENU] key briefly to enter the MENU mode.
When "CODE_SET" is displayed, press [▶▶] key for 1 second or longer to enter the security registration mode.
 3. Input the security code, using [FM] / [AM] / [◀◀] / [▶▶] keys.
[FM] key : number up / [AM] key : number down
[▶▶] key : cursor to right / [◀◀] key : cursor to left
 4. After inputting the code, press [▶▶] key for 3 seconds or longer which causes "RE-ENTER" to be displayed. This is for "confirming" the code. Use the method in the step 3 to re-enter the code.
 5. Then, press [▶▶] key for 3 seconds or longer, which will display "APPROVED". This completes the security code registration.
 6. Release the test mode. (Refer to "How to clear the test mode".)
- * **Note:** All clear cannot be used to clear the security code.

• How to clear the programmable security code (DPX502/DPX-MP5100U only)

1. While " _ _ _ _ " is being displayed, press [▶▶] key for 3 seconds or longer while pressing the [AUTO] or [TI] keys. (This makes the " _ _ _ _ " display disappear.)
2. Input "KCAR", using the remote controller.
Press [5] key of the remote controller 2 times (Input for "K") and press [▶▶] key.
Press [2] key of the remote controller 3 times (Input for "C") and press [▶▶] key.
Press [2] key of the remote controller once (Input for "A") and press [▶▶] key.
Press [7] key of the remote controller 2 times (Input for "R") and press [▶▶] key.
3. The security is cleared and the unit enters STANDBY source.
4. If wrong codes are input, " _ _ _ _ " will be displayed again.

DC OFFSET ERROR

● Purpose

Prevent customer's vehicle speakers damages, burnouts, and smoking.

Avoid the connected speakers to be burned out, damaged, or to smoke when DC occurs between the audio power amp. + and - outputs.

● Processing after detection

• System status

- At the detection of DC error, error data is to be saved immediately (E2PROM error log save area).
- Display the error message on the display. The system shall maintain the current condition, including the operation. Shut down audio system power supply. Set Mute to ON.
- Although switching between Power OFF and ON (ACC, BU, and Key operation) is valid, switching from Off to ON shall be error until the μ -com is reset.
 - * While power-on, even if the IC2VI DCErr output terminal logic recovered to normal level value, the error condition shall continue.
- Prohibit to save the backup/installer memory to E2PROM (nonvolatile memory).

• Controlling μ -com terminal

- Set Mute for all channels including for pre-out.
- Turn off power IC control system power supply. (Set AMP-Standby function to valid)
- Set P-Con output to OFF (Logic by which external AMP unit is turned off).
 - * The purpose is to shut down audio output. Basically, the logic sets the audio output system signal line when in Standby source.

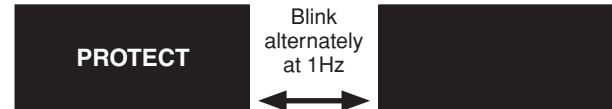
• Key specification

- Other keys than eject and power keys are invalid.

• Display specification

- Display the "PROTECT" string and blink all characters at 1Hz.
 - * Use the indication below with the highest priority (error message), and maintain the error message even when the source is changed.

Display example



● Cancel Condition

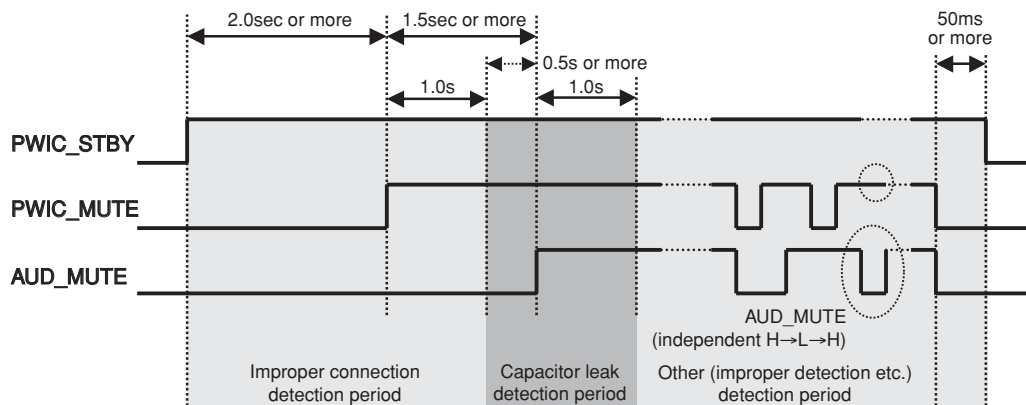
- Press the Reset terminal on the main body. Or set Backup to OFF (Unplug and plug back in the DC connector). The history is maintained (E2PROM data is saved).
- If DC error is detected during the capacitor leak detection period, the clearing the error by the reset is limited to 4 times. The startup is inhibited for the 5th time and later reset. ("PROTECT" display has to be blinked.)

● Note while in the test mode

- While in the test mode, even if DC leak is detected, it is not written into E2PROM. When an error is detected, the display is enabled.

● Other

- Function for checking and clearing data in E2PROM by a given key shall be included. (Used at production dpt. and service center, etc.)



INSTALLER MEMORY SPECIFICATIONS

At specialists (or specialty stores), when the installer sends the vehicle back to the user, they may make the store-recommended audio configuration.

When the user changes the setting values, when the backup power supply was taken out at times of battery change or when the reset button was pressed, to make it possible to recall the setting values, the store-recommended configuration values can be saved into E2PROM.

The specification detail defer in “with-DSP model” and in “without-DSP model”.

[Models without DSP]

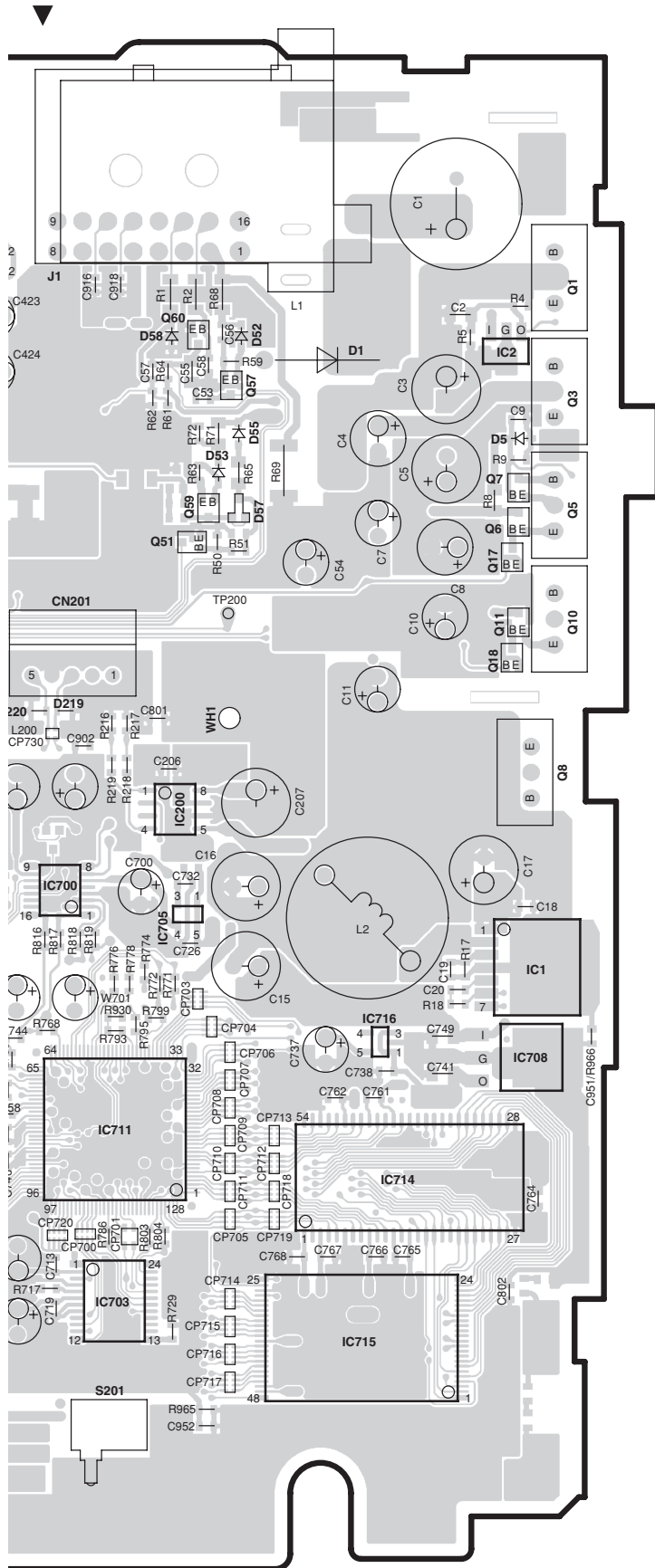
- Calling and saving the configuration is done by the MENU.
- Items to be saved are Bass, Middle, Treble, X'over, and Sub Woofer Level. Only one setting can be saved for each item (Bass/Middle/Treble settings can be changed for each source, but only one setting can be saved as the installer memory specification, and the source in which the saving operation was carried out is saved as such).
- The contents read out by the call key shall be reflected only to the current source at the time→EQ curve is “USER” (Bass/Middle/Treble settings can be changed for each source, but not reflected to Bass/Middle/Treble settings of sources other than where the calling operation was carried out).
- When the backup power supply was taken out at times of battery change or when the reset button was pressed, as the initial setting values of Bass, Middle, Treble, X'over, and Sub Woofer Level, the saved memory is reflected. (Bass/Middle/Treble setting initial setting value memory is reflected in all sources.)

[NOTE] By such, EQ curve initial setting shall always be “USER” (NOT “NATURAL” or “FLAT”).

BACKUP MEMORY SPECIFICATIONS

Settings by the user other than the installer memory items are saved into the E2PROM, and when the backup power supply was taken out at times of battery change or when the reset button was pressed, it is made possible to recall the setting values saved.

- While Power ON, the memory is saved and accumulated at a certain interval (temporary).
- Items to be saved into the memory are: Volume Offset (for all sources) and preset frequencies (FM/AM all bands x 6 channels).
- When the backup power supply was taken out at times of battery change or when the reset button was pressed, as the initial setting values of Volume Offset (for all sources) and preset frequencies (FM/AM all bands x 6 channels), the saved memory is reflected.
- In models which includes channel space switching, when channel space is switched, TUNER-preset frequencies are set back to the default values.



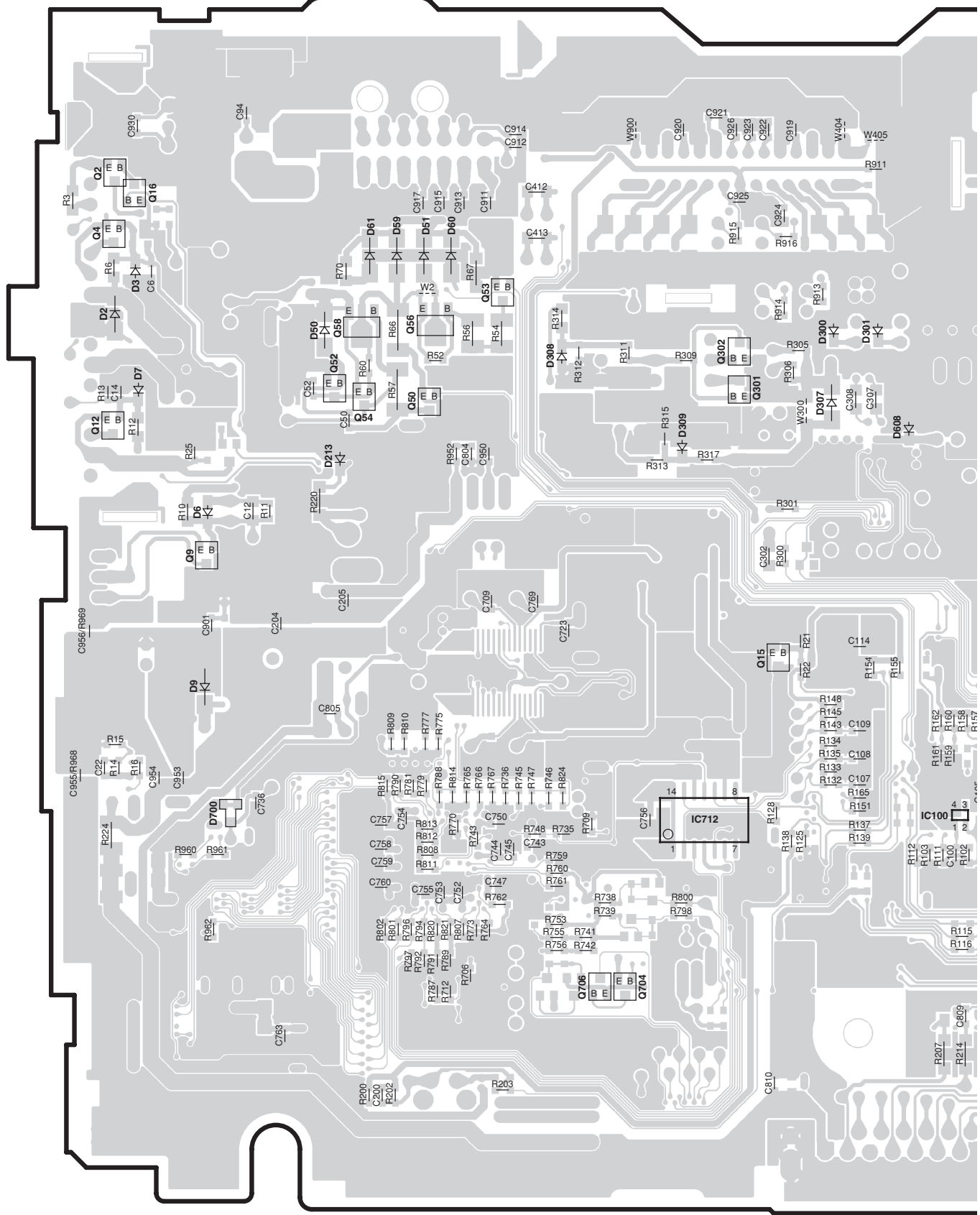
X34-560x-xx

Ref. No.	Address
IC1	5G
IC2	2G
IC102	5C
IC103	4C
IC200	4F
IC300	3D
IC400	2D
IC700	4F
IC702	5E
IC703	6F
IC704	4E
IC705	5F
IC708	5G
IC709	5D
IC710	5D
IC711	5F
IC714	5G
IC715	6G
IC716	5G
Q1	2H
Q3	3H
Q5	3H
Q6	3G
Q7	3G
Q8	4H
Q10	3H
Q11	3G
Q13	4D
Q14	4D
Q17	3G
Q18	4G
Q51	3F
Q57	3F
Q59	3F
Q60	2F
Q605	3B
Q606	3B
Q607	3B

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

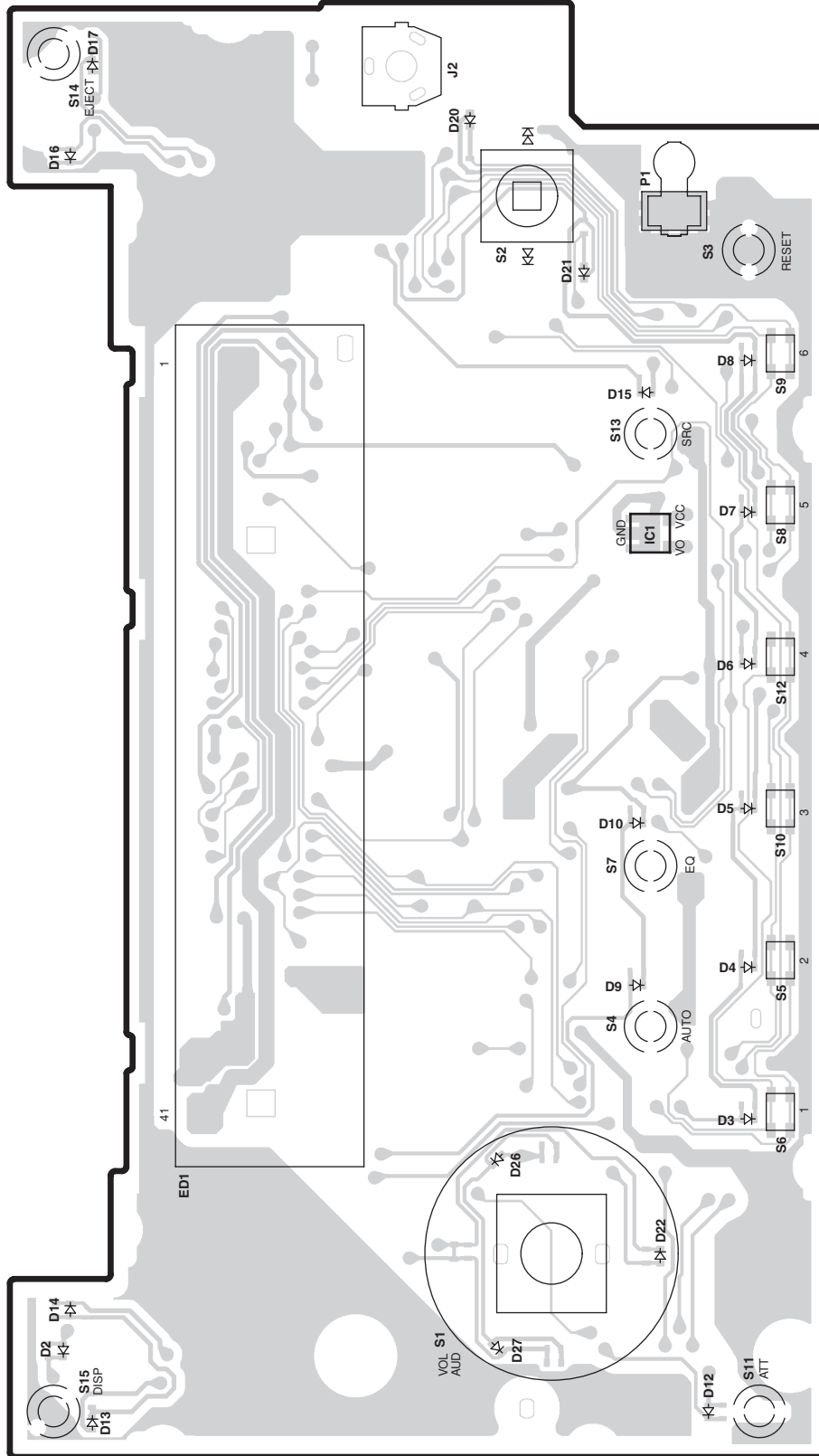
PC BOARD (FOIL SIDE VIEW)

ELECTRIC UNIT X34-560x-xx (J76-0369-42)



PC BOARD (COMPONENT SIDE VIEW)

SWITCH UNIT X16-614x-xx (J76-0442-02)



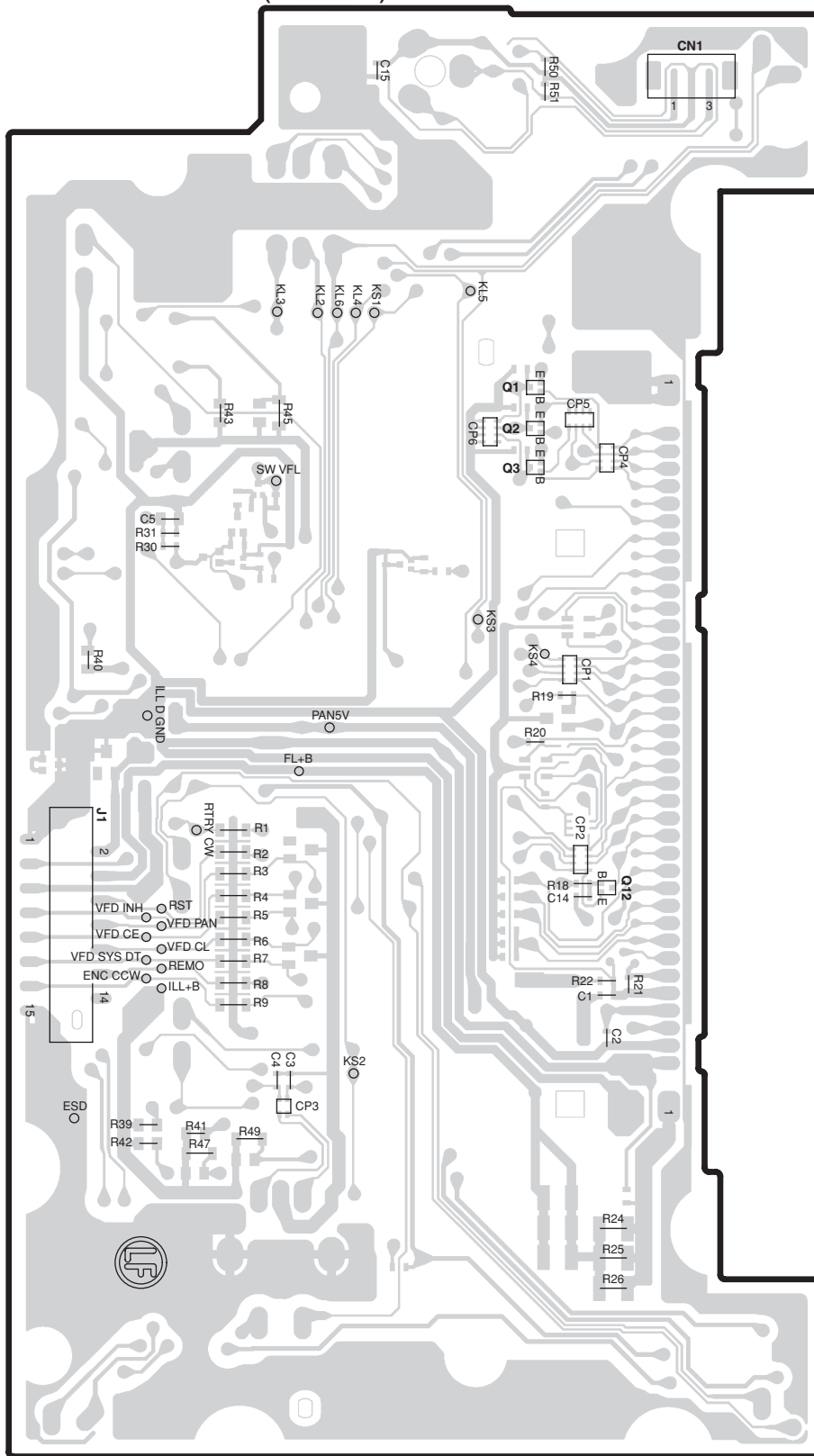
X16-614x-xx

Ref. No.	Address
IC1	3X

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

PC BOARD (FOIL SIDE VIEW)

SWITCH UNIT X16-614x-xx (J76-0442-02)



X16-614x-xx

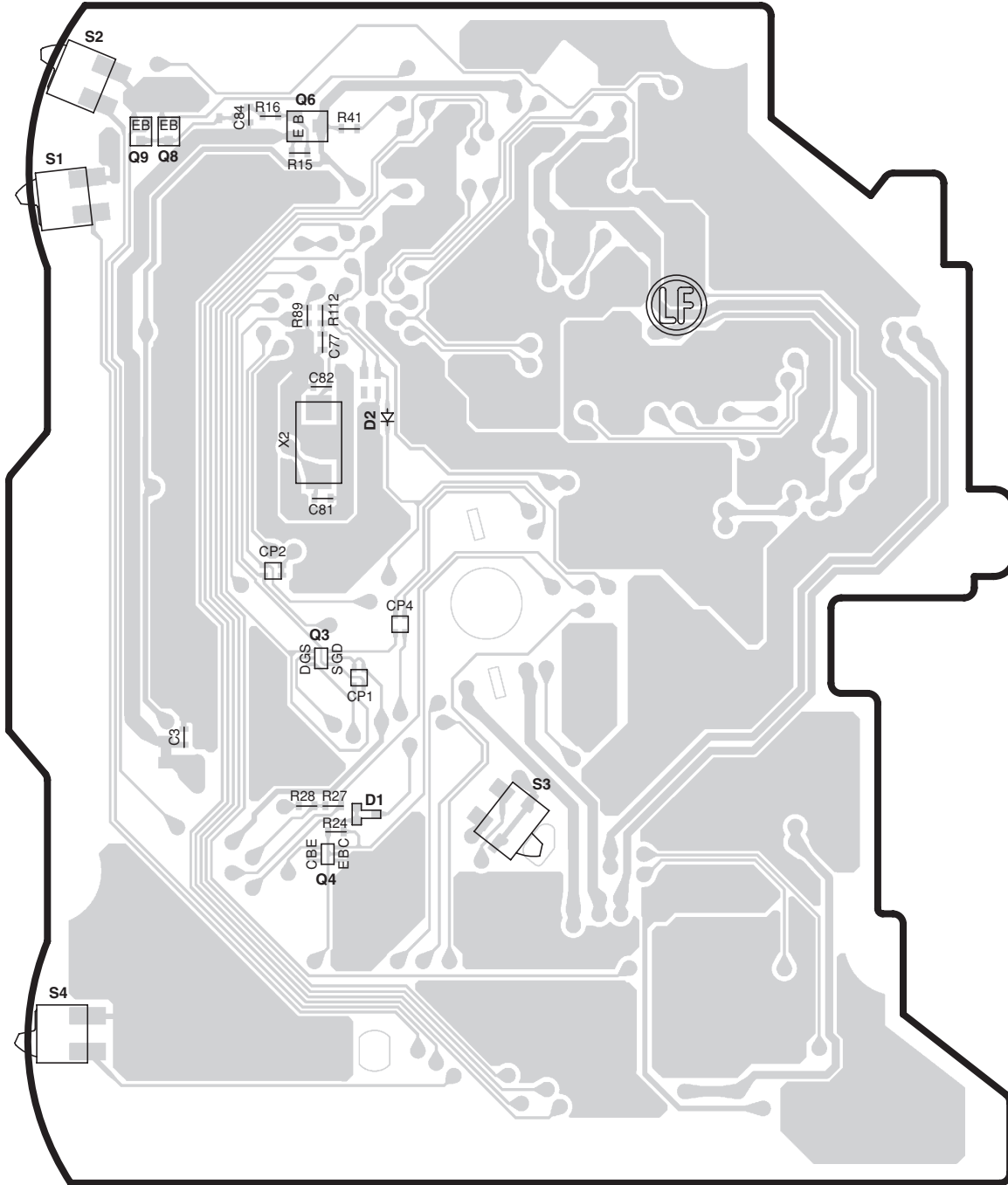
Ref. No.	Address
Q1	3AB
Q2	3AB
Q3	3AB
Q12	5AC

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

DPX502/502U/502UY
DPX-MP5100U

PC BOARD (COMPONENT SIDE VIEW)

CD PLAYER UNIT X32-5980-02 (J76-0377-02)



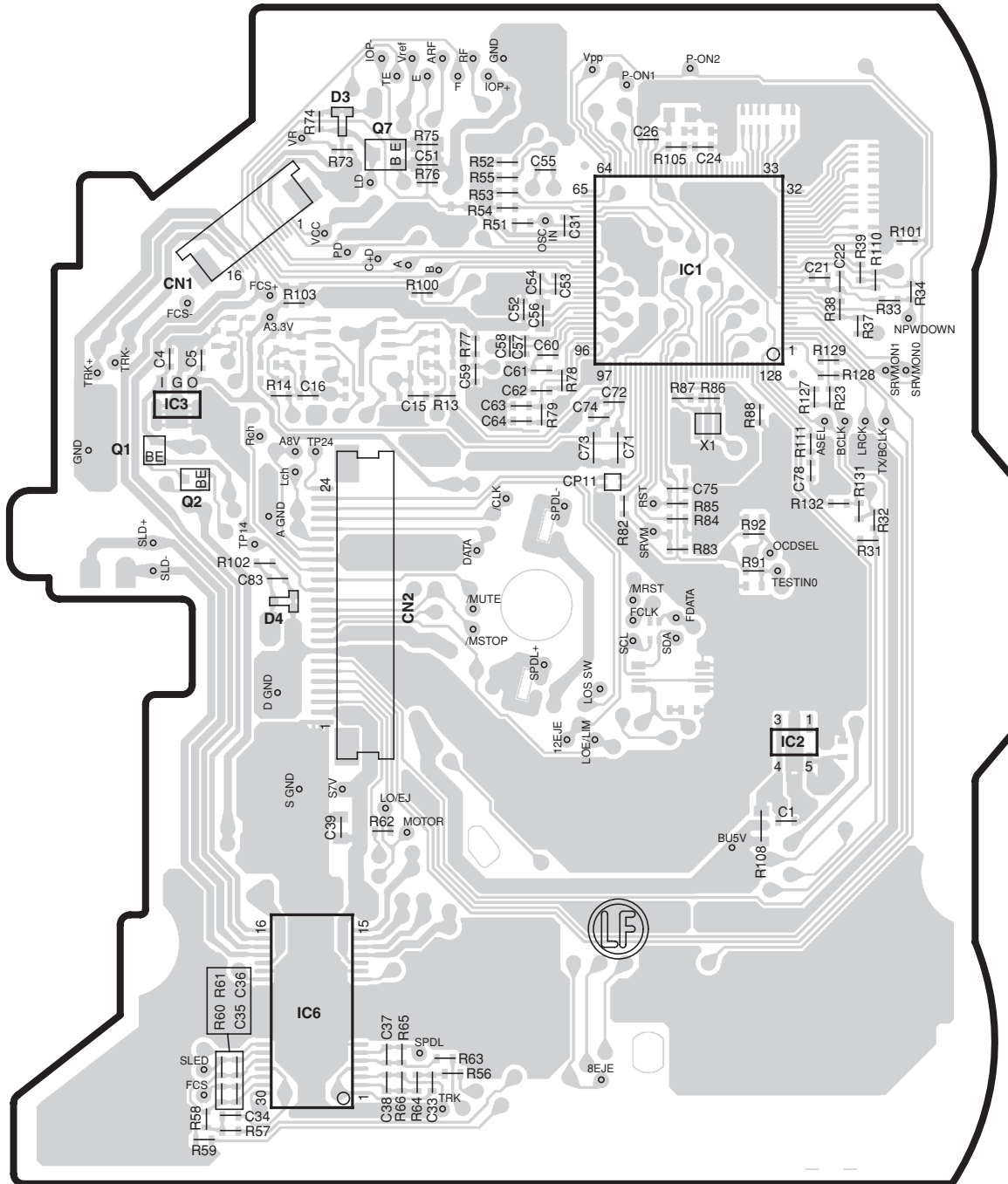
X32-5980-02

Ref. No.	Address
Q3	4AF
Q6	2AF
Q8	2AF
Q9	2AF

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

PC BOARD (FOIL SIDE VIEW)

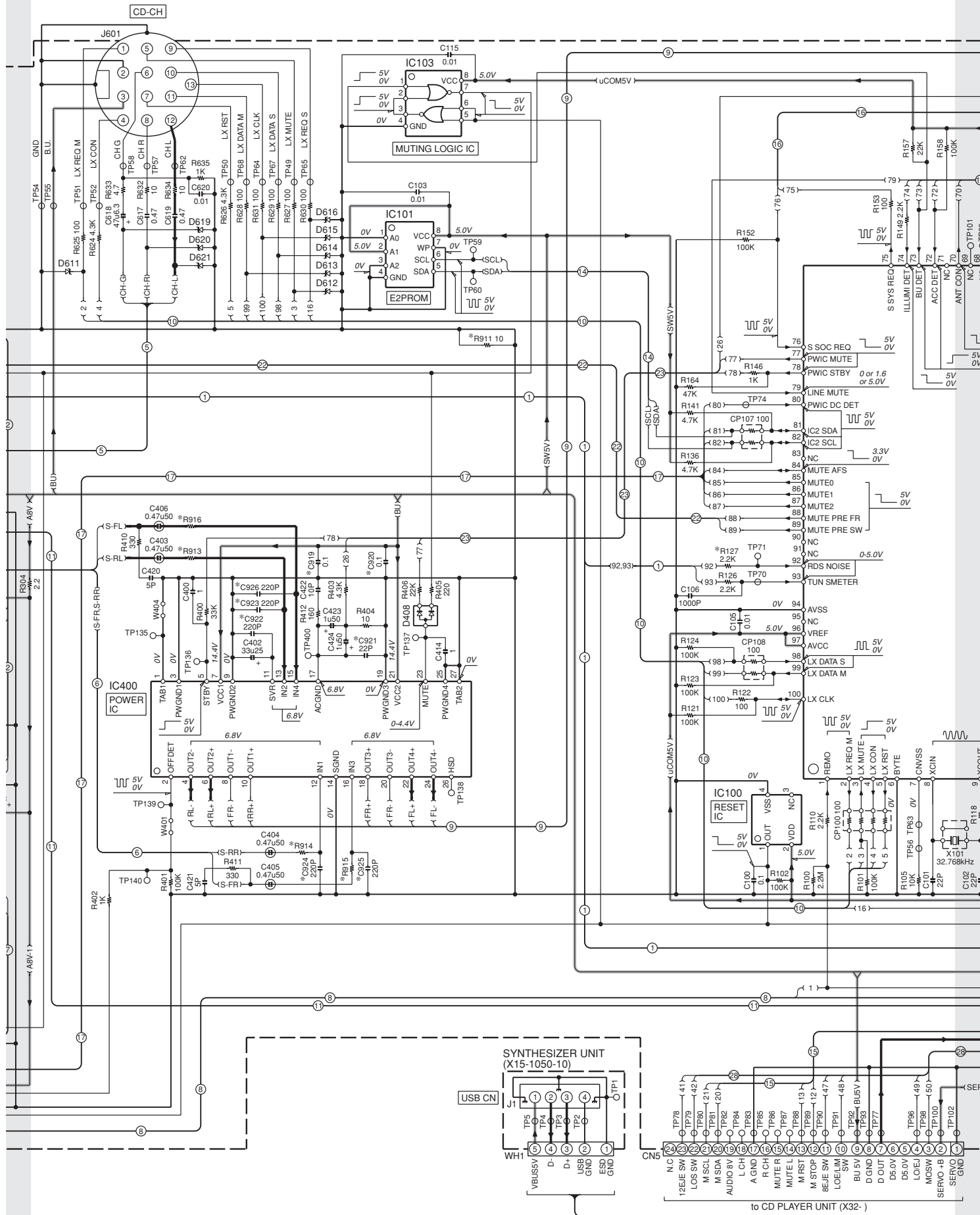
CD PLAYER UNIT X32-5980-02 (J76-0377-02)



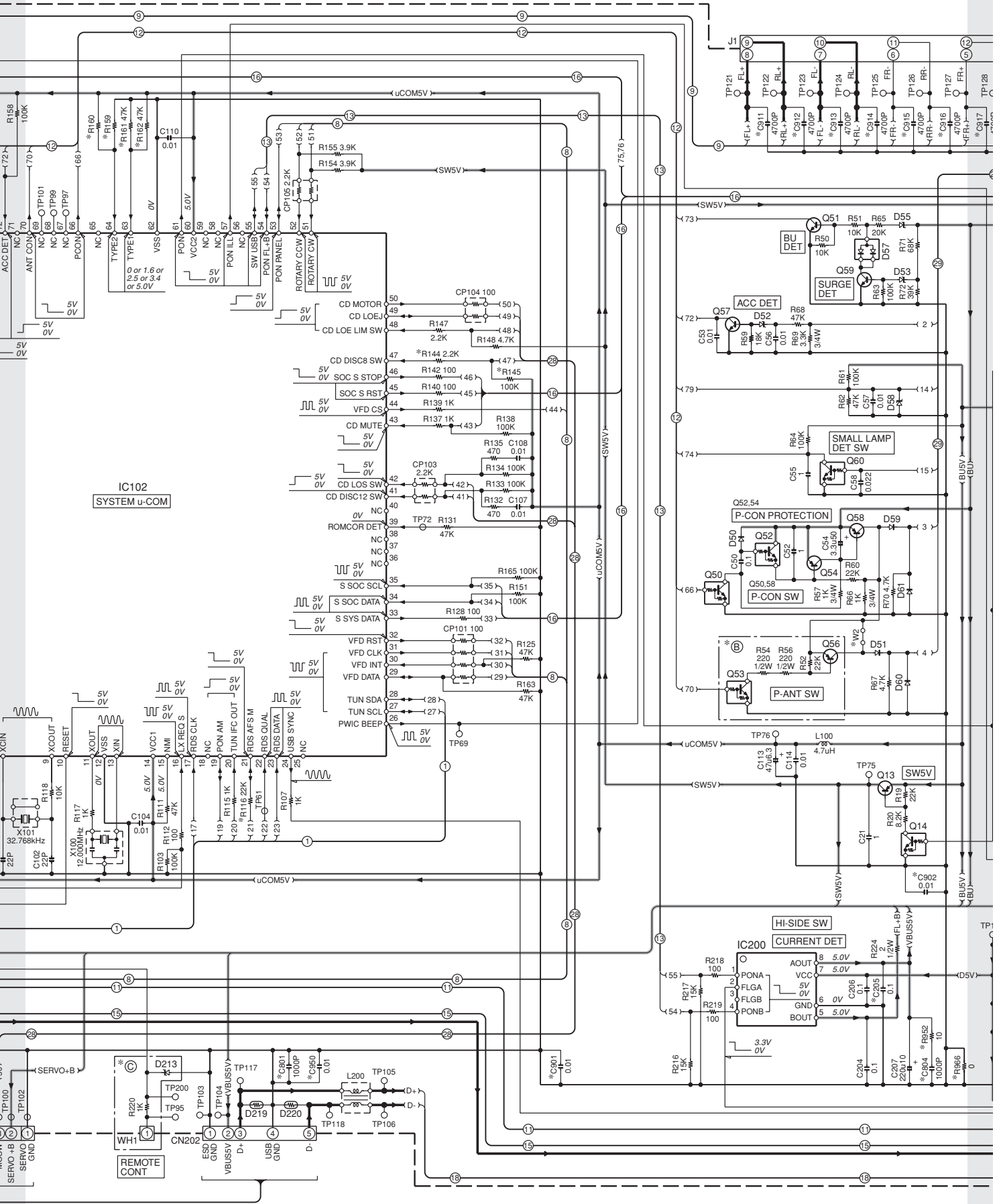
X32-5980-02

Ref. No.	Address
IC1	2AL
IC2	4AM
IC6	5AK
Q7	2AK

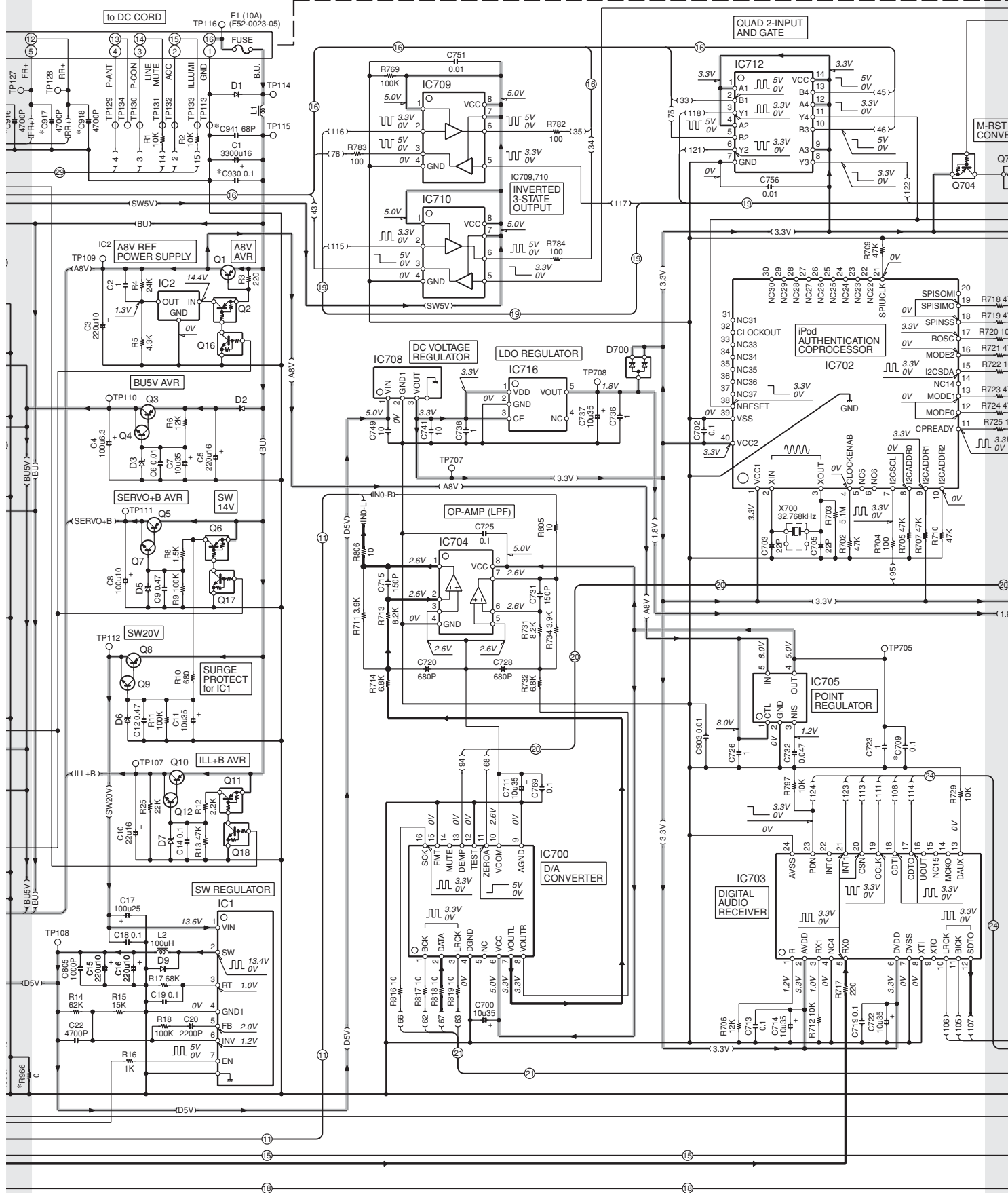
Refer to the schematic diagram for the values of resistors and capacitors.



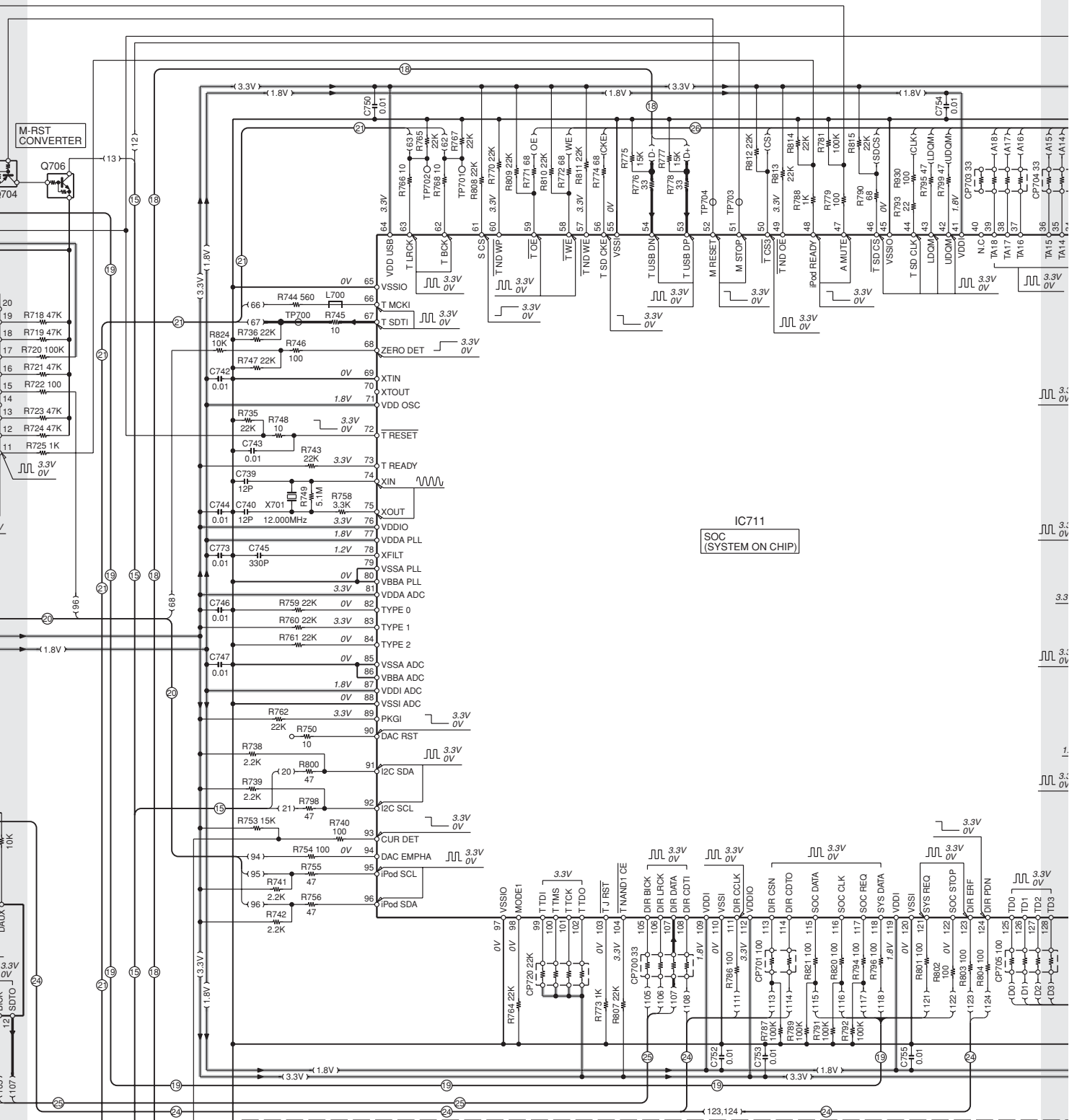
K L M N O
DPX502/502U/502UY
DPX-MP5100U



DPX502/502U/502UY DPX-MP5100U

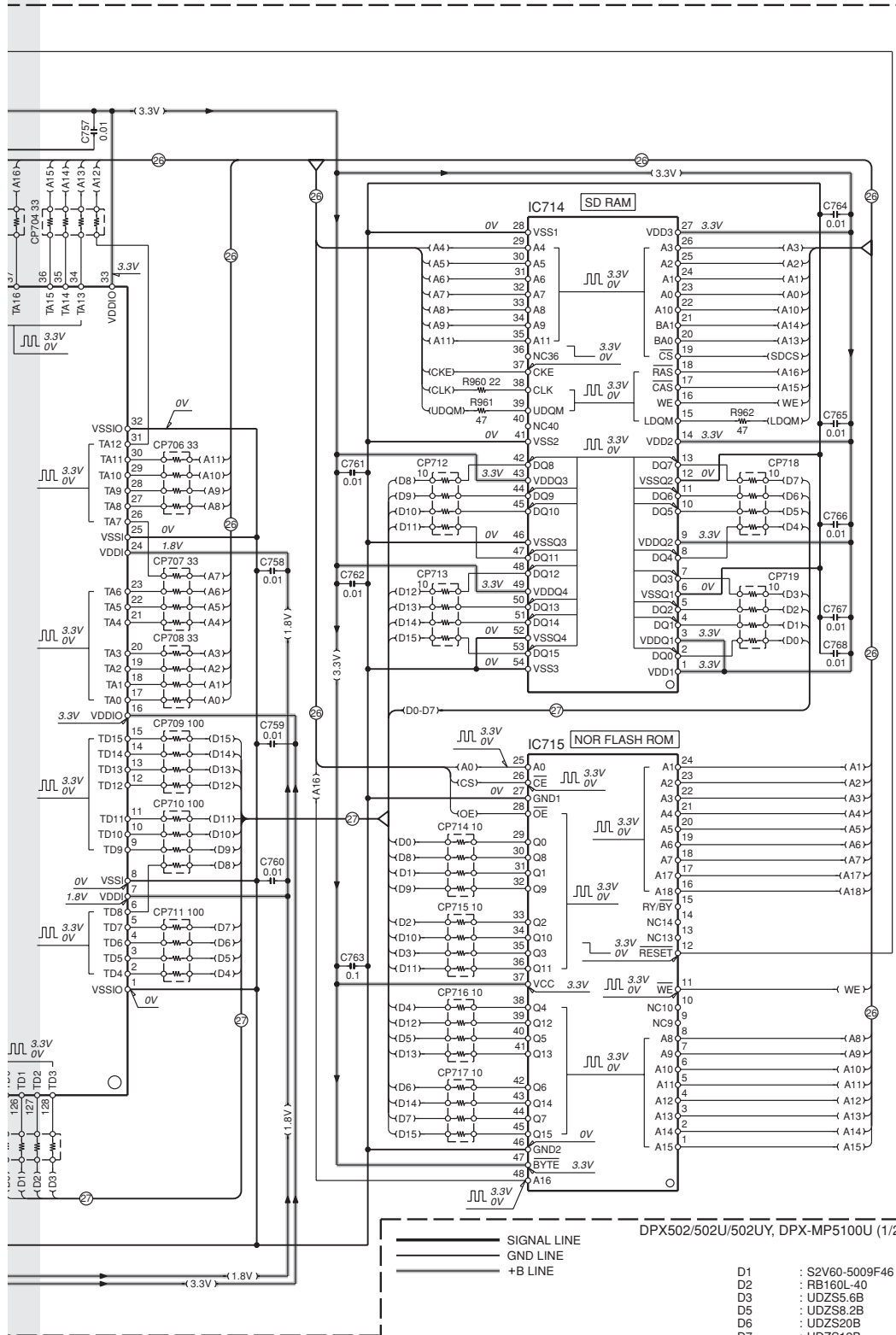


DPX502/502U/502UY
DPX-MP5100U



(X34-560x-xx)

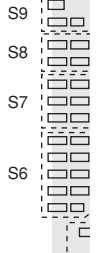
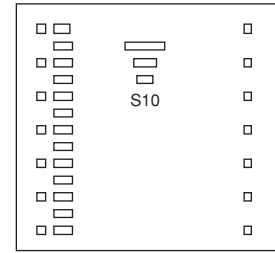
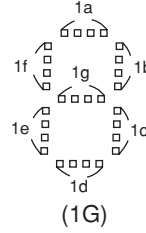
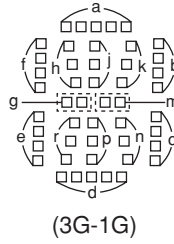
MODEL NAME	DESTI- NATION	UNIT No.	(A)	(B)	(C)	A500	C205, 801, 804	C809,810, 911-926, 930,942-944	C709, 941	C901, 902	C906	C950	R116, 127,966	R144, 145,161	R159	R160	R162	R911, 963-965	R913- 916	R952	W2		
DPX-U77	J	0-01	—	YES	—	X86-4040-01	—	—	—	YES	—	—	—	—	YES	—	47K	—	—	—	—	—	
DPX502	K1	0-10	YES	YES	—	X86-4040-11	YES	—	—	YES	YES	YES	YES	—	—	47K	—	YES	—	—	0	YES	—
DPX-MP5100U	M1	0-21	—	YES	YES	X86-4040-11	—	—	—	YES	—	YES	—	—	—	22K	47K	YES	—	—	0	—	—
DPX502U	E1	2-71	YES	—	YES	X86-4042-70	YES	YES	—	—	—	—	—	—	—	22K	22K	YES	YES	—	47	YES	YES
DPX502UY	E2	2-72	YES	—	YES	X86-4042-70	YES	YES	—	—	—	—	—	—	—	47K	22K	YES	YES	—	47	YES	YES



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

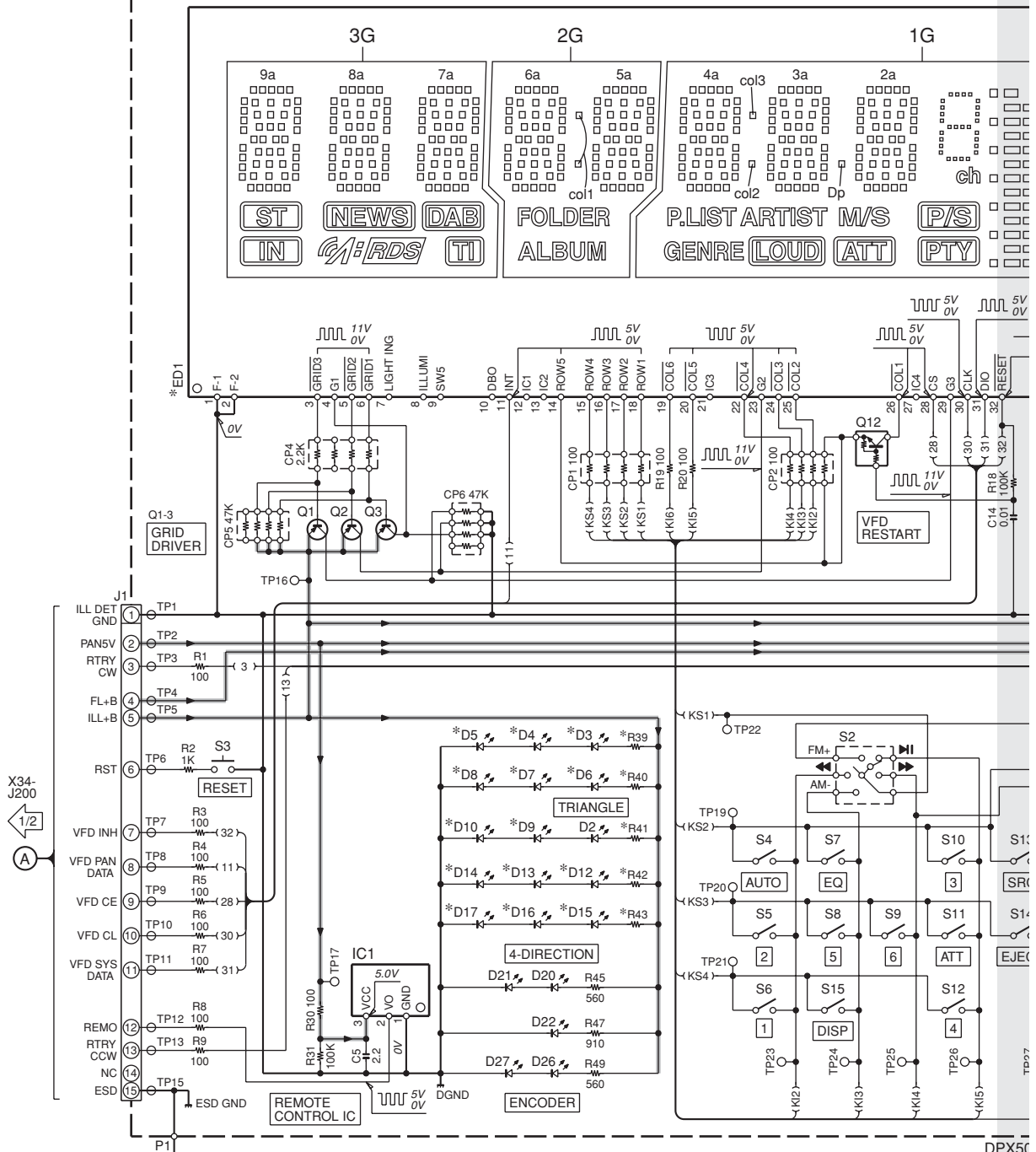
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

IC1 : BD9781HFP	IC705 : TAR5S50-F	Q1,3,5,8,10 : 2SB1565	D1 : S2V60-5009F46
IC2 : M5237ML-CFOJ	IC708 : SI-3033KMS	Q2,6,11,601,606 : RT1P241M	D2 : RB160L-40
IC100 : S-80836CNNB-J	IC709,710 : TC7WT126FU-F	Q4,7,9,12,51,57,59 : 2SC4081	D3 : UDZS5.6B
IC101 : BR24L04FV-W	IC711 : TC7C760	Q13,54 : 2SA1576A	D5 : UDZS8.2B
IC102 : 30624MWPB60GP	IC712 : TC74LVX08F-F	Q14,16-18,501 : RT1N241M	D6 : UDZS20B
IC103 : 74HC2G02DP	IC714 : IC42S164007TIG	Q15 : 2SA1603A	D7 : UDZS12B
IC200 : MIC2026-1YM	IC715 : A29L80AUV4X9F	Q50,53,706 : RT1N144M	D9 : RB081L-20
IC300 : E-TDA7415CB	IC716 : R1114N181B-TR	Q52 : RT1P141M	D50,51,59-61 : D1F60-5063
IC400 : E-TDA7850A		Q56,58 : 2SB1188(Q,R)	D52 : UDZS6.2B
IC500 : LC72725KV		Q60 : RT1N441M	D53,55 : UDZS6.8B
IC700 : PCM1754DB		Q500 : 2SB1689	D57,304-306,408,602,607,700 : MC2846
IC702 : 341S2094		Q600,602,605,607 : DTC143TUA	D58 : 02DZ4.7F-Y
IC703 : AK4117		Q704 : RT1P144M	D213,611-616 : 02DZ6.2F-Y
IC704 : NJM2100V-ZB			D219,220 : IMSA-6802-E
			D608-610,619-621 : 02DZ6.8F-Y



(1G)

SWITCH UNIT (X16-614x-xx)



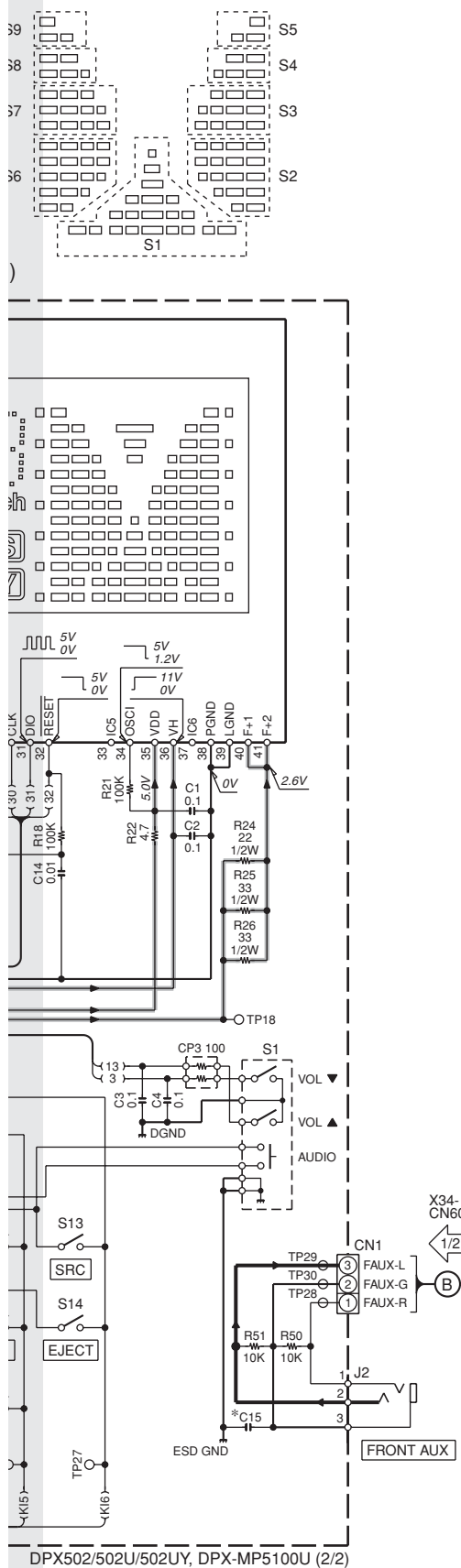
DPX50

- IC1 : PNA4S22M02KW Q1-3 : 2SA1774
 Q12 : RT1N441U
 D2 : B30-1566-05
 D3-10,12-17 : *
 D20-22,26,27 : *
 : B30-1766-05

- SIGNAL LINE
 — GND LINE
 — +B LINE

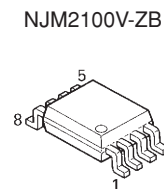
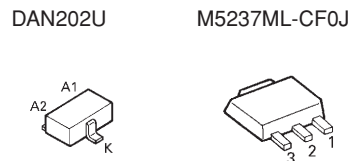
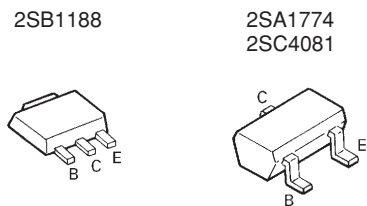
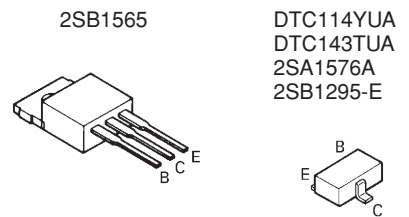
(X16-614x-xx)

MODEL NAME	DESTI-NATION	UNIT No.	C15	ED1	D3-10, 12-17	R39-43
DPX-U77	J	0-10	0.01	3-BT-249INK	B30-1566-05	620
DPX502	K1	0-21	0.047	3-BT-251INK	B30-1575-05	510
DPX-MP5100U	M1	0-10	0.01	3-BT-249INK	B30-1566-05	620
DPX502U	E1	0-10	0.01	3-BT-249INK	B30-1575-05	510
DPX502UY	E2	2-71	0.01	3-BT-249INK	B30-1575-05	510



ANODE CONNECTION

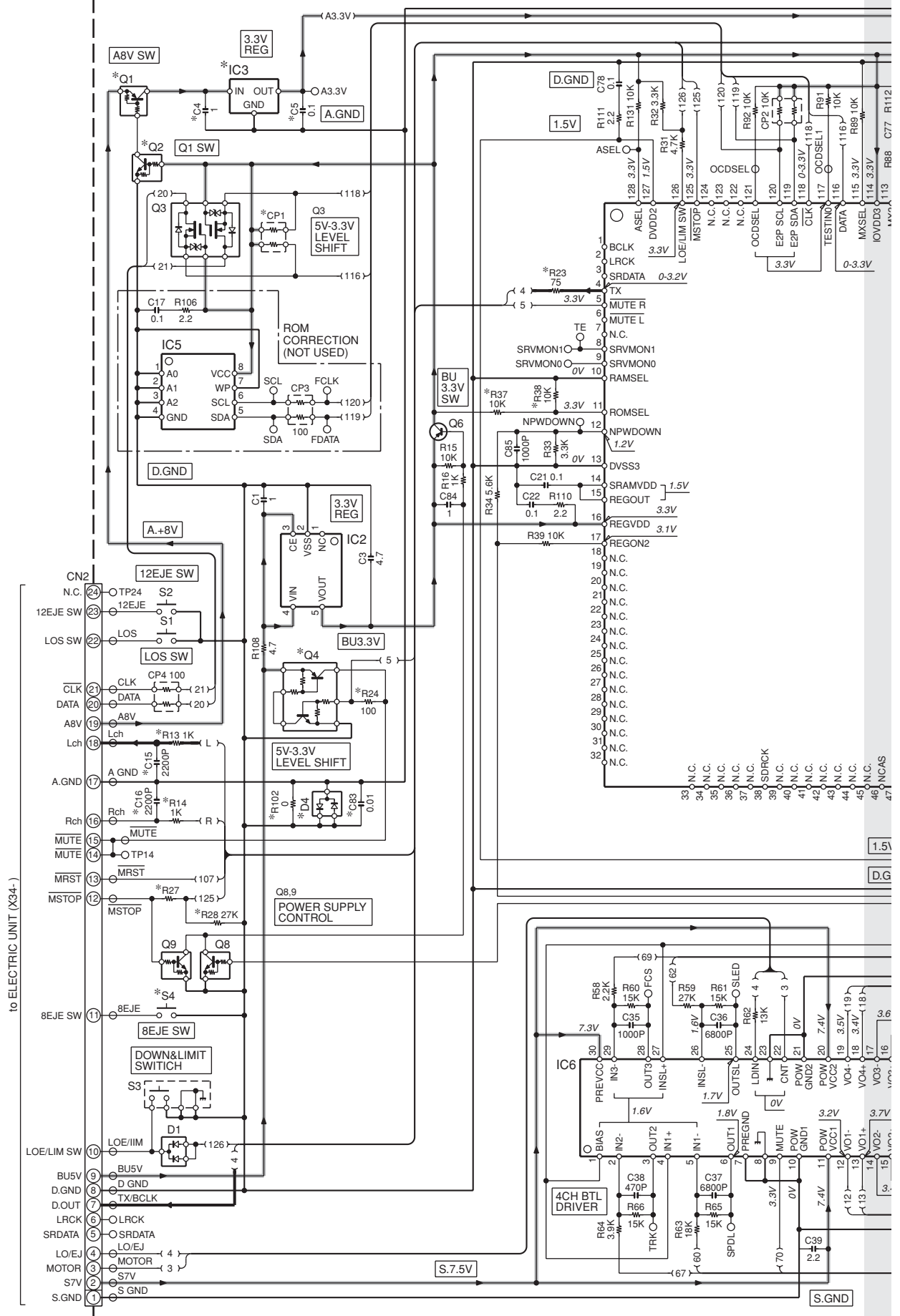
PIN NAME	3G	2G	1G
P1	9a	—	2a
P2	9h	—	2h
P3	9j	—	2j
P4	9k	—	2k
P5	9b	—	2b
P6	9f	—	2f
P7	9m	—	2m
P8	9g	—	2g
P9	9c	—	2c
P10	9e	—	2e
P11	9r	—	2r
P12	9p	—	2p
P13	9n	—	2n
P14	9d	—	2d
P15	8a	6a	4a
P16	7a	5a	3a
P17	8h	6h	4h
P18	7h	5h	3h
P19	8j	6j	4j
P20	7j	5j	3j
P21	8k	6k	4k
P22	7k	5k	3k
P23	8b	6b	4b
P24	7b	5b	3b
P25	8f	6f	4f
P26	7f	5f	3f
P27	8m	6m	4m
P28	7m	5m	3m
P29	8g	6g	4g
P30	7g	5g	3g
P31	8c	6c	4c
P32	7c	5c	3c
P33	8e	6e	4e
P34	7e	5e	3e
P35	8r	6r	4r
P36	7r	5r	3r
P37	8p	6p	4p
P38	7p	5p	3p
P39	8n	6n	4n
P40	7n	5n	3n
P41	8d	6d	4d
P42	7d	5d	3d
P43	—	col1	col2
P44	—	—	col3
P45	—	—	Dp
P46	[ST]	FOLDER	P.LIST
P47	[NEWS]	ALBUM	ARTIST
P48	[DAB]	—	M/S
P49	[IN]	—	GENRE
P50	[RDS]	—	[LOUD]
P51	[TI]	—	[ATT]
P52	—	—	1a
P53	—	—	1b
P54	—	—	1f
P55	—	—	1g
P56	—	—	1c
P57	—	—	1e
P58	—	—	1d
P59	—	—	ch
P60	—	—	[P/S]
P61	—	—	[PTY]
P62	—	—	S1
P63	—	—	S2
P64	—	—	S3
P65	—	—	S4
P66	—	—	S5
P67	—	—	S6
P68	—	—	S7
P69	—	—	S8
P70	—	—	S9
P71	—	—	S10



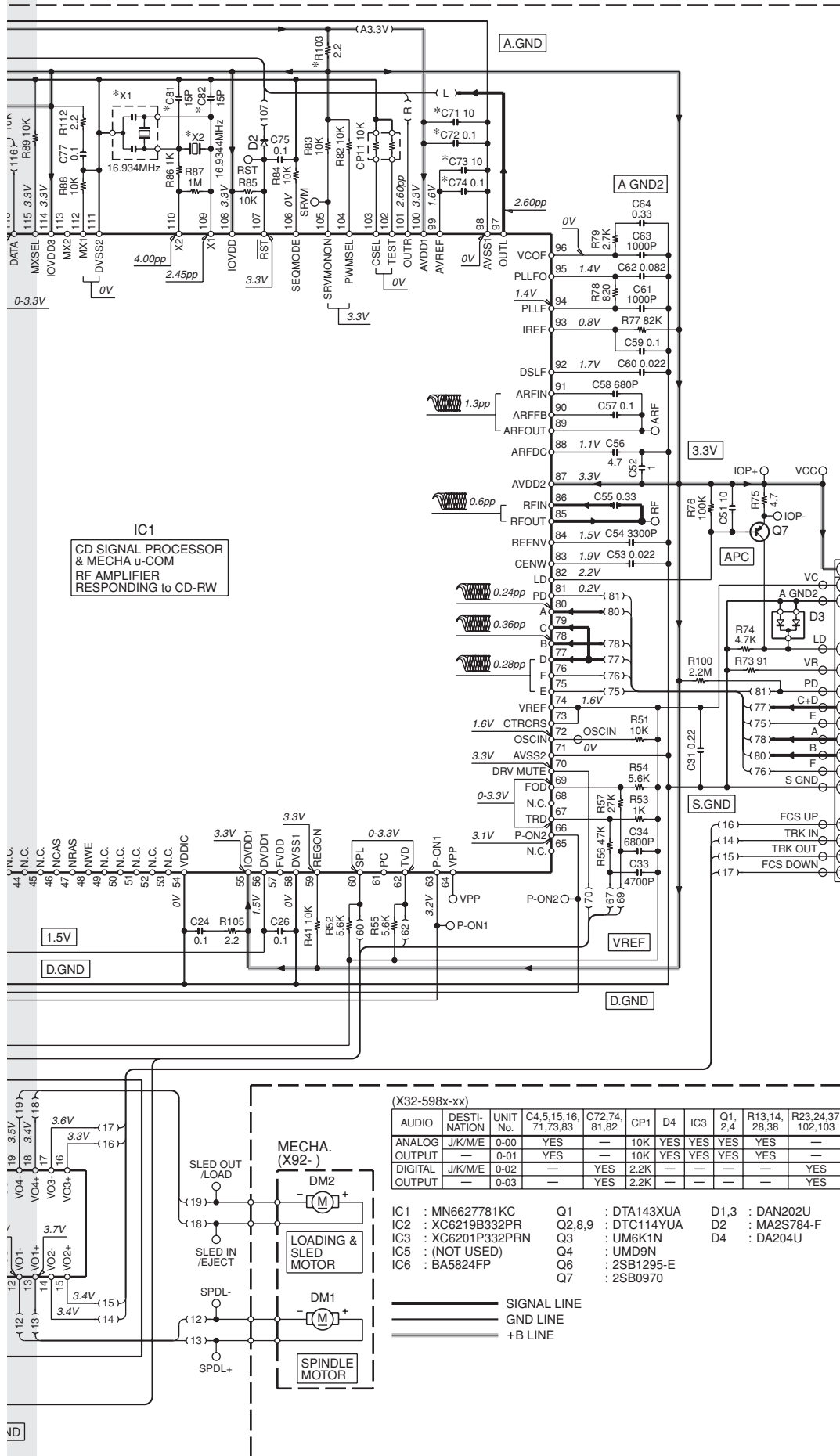
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
 ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably 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 (X32-598x-xx)



DPX502/502U/502UY
DPX-MP5100U



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

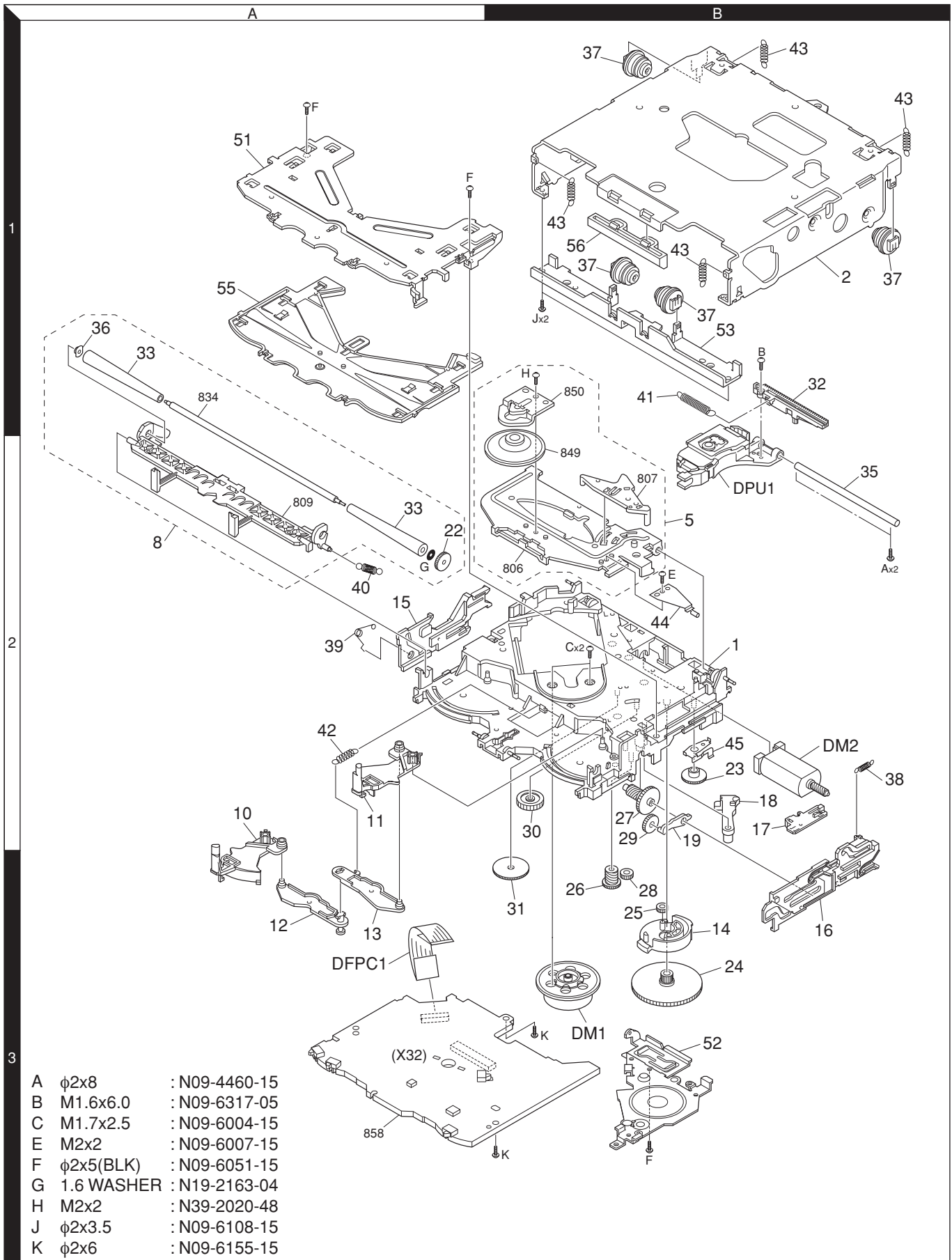
(X32-598x-xx)

AUDIO	DESTINATION	UNIT No.	C4,5,15,16,71,73,83	C72,74,81,82	CP1	D4	IC3	Q1, 2,4	R13,14,28,38	R23,24,37,102,103	R27	S4	X1	X2
ANALOG	J/K/M/E	0-00	YES	—	10K	YES	YES	YES	YES	—	22K	—	YES	—
OUTPUT	—	0-01	YES	—	10K	YES	YES	YES	YES	—	22K	YES	YES	—
DIGITAL	J/K/M/E	0-02	—	YES	2.2K	—	—	—	—	YES	100	—	—	YES
OUTPUT	—	0-03	—	YES	2.2K	—	—	—	—	YES	100	YES	—	YES

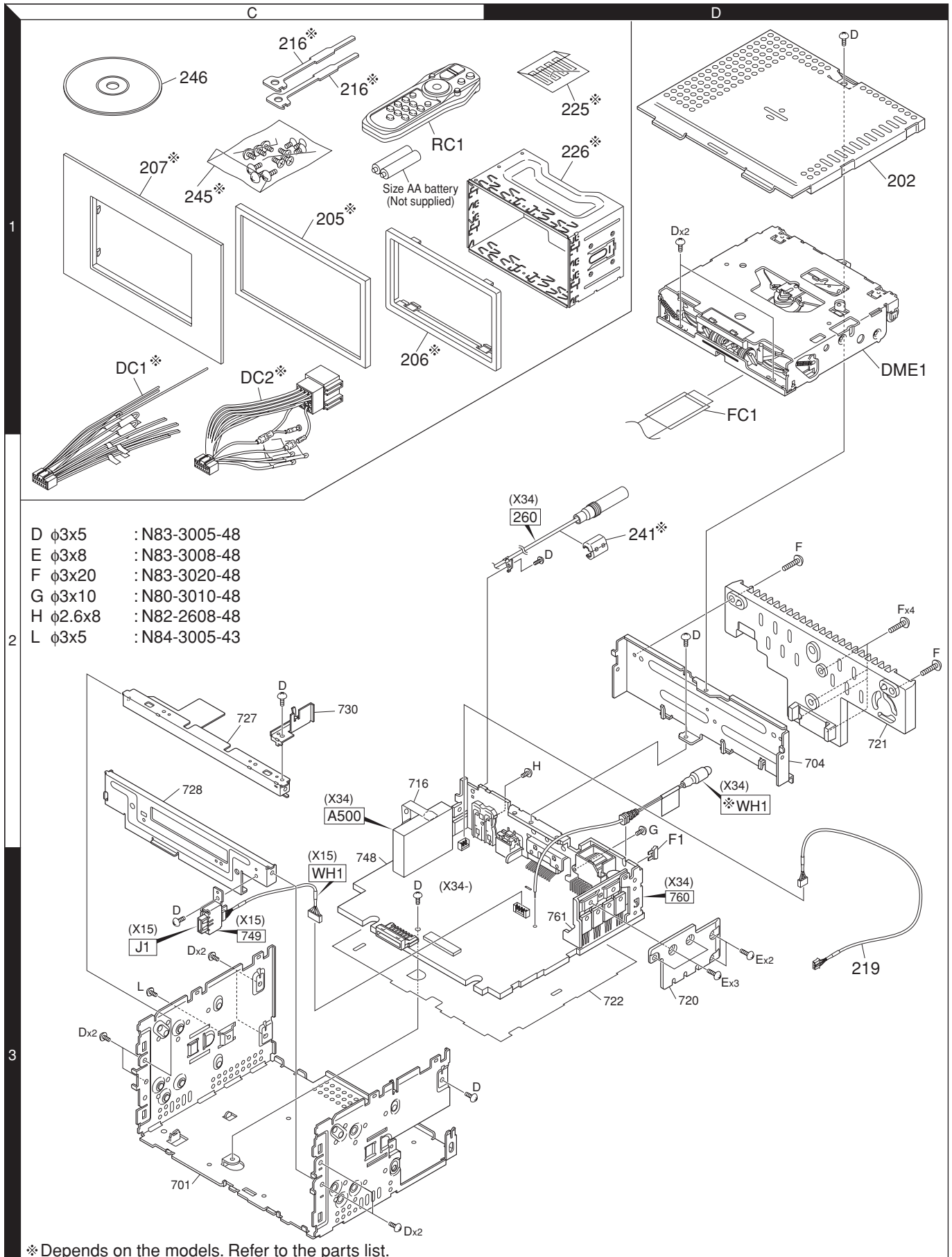
- IC1 : MN6627781KC
- IC2 : XC6219B332PR
- IC3 : XC6201P332PRN
- IC5 : (NOT USED)
- IC6 : BA5824FP
- Q1,9 : DTA143XUA
- Q2,8,9 : DTC114YUA
- Q3 : UM6K1N
- Q4 : UMD9N
- Q6 : 2SB1295-E
- Q7 : 2SB0970
- D1,3 : DAN202U
- D2 : MA2S784-F
- D4 : DA204U

— SIGNAL LINE
— GND LINE
— +B LINE

EXPLODED VIEW (CD MECHANISM)

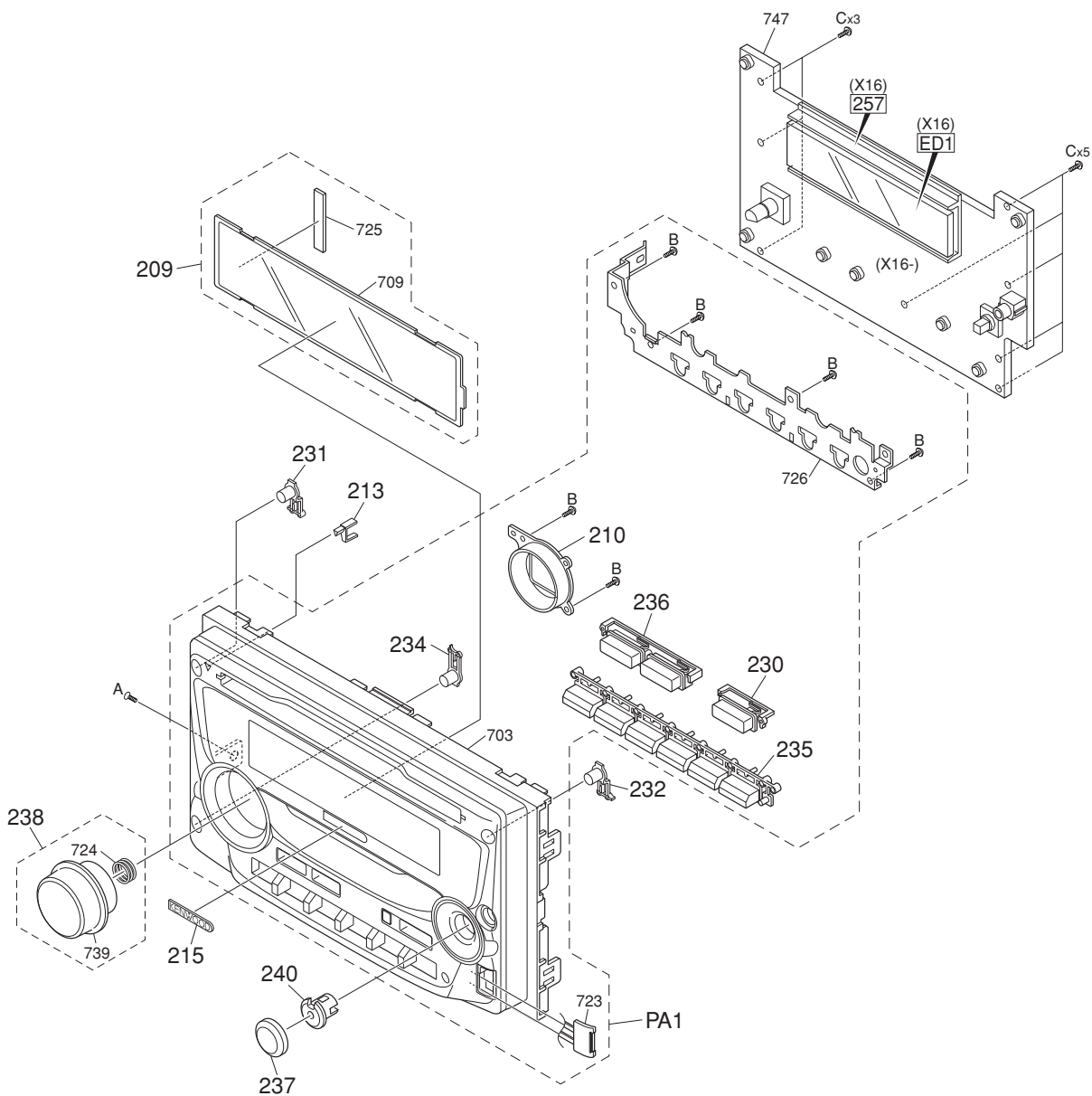


EXPLODED VIEW (UNIT)



EXPLODED VIEW (PANEL)

- | | | |
|---|--------|---------------|
| A | φ2.6x6 | : N78-2660-48 |
| B | φ2x6 | : N80-2006-48 |
| C | φ2x8 | : N80-2008-48 |



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
DPX502/DPX502U/DPX502UY/DPX-MP5100U					
202	1D		A52-0872-12	TOP PLATE	
PA1	3F	*	A64-4096-02	PANEL ASSY	K1
PA1	3F	*	A64-4097-02	PANEL ASSY	M1
PA1	3F	*	A64-4098-02	PANEL ASSY	E1E2
RC1	1C		A70-2085-05	REMOTE CONTROLLER ASSY (RC-547)	
-		*	B59-1893-00	SUB-INST. MANUAL (ENGLISH)	
-		*	B59-1894-00	SUB-INST. MANUAL (FRE.SPA.)	K1E1
-		*	B59-1895-00	SUB-INST. MANUAL (GER.DUT.ITA.)	E1
-		*	B59-1896-00	SUB-INST. MANUAL (RUSSIAN)	E2
-		*	B59-1897-00	SUB-INST. MANUAL (S-CHINESE)	M1
-		*	B64-3826-00	INST. MANUAL (ENG.FRE.)	K1
-		*	B64-3827-00	INST. MANUAL (ARABIC)	M1
-		*	B64-3828-00	INST. MANUAL (ENG.S-CHI.)	M1
-		*	B64-3829-00	INST. MANUAL (ENGLISH)	E1E2
-		*	B64-3830-00	INST. MANUAL (FRE.GER.)	E1
-		*	B64-3831-00	INST. MANUAL (DUT.ITA.)	E1
-		*	B64-3832-00	INST. MANUAL (SPA.POR.)	E1
-		*	B64-3833-00	INST. MANUAL (RUSSIAN)	E2
205	1C		B07-3046-04	ESCUTCHEON ASSY	M1
206	1C		B07-3165-02	ESCUTCHEON	K1E1E2
207	1C		B07-3172-12	ESCUTCHEON	K1
209	2E		B10-4809-03	FRONT GLASS ASSY	
210	2F		B19-2368-03	LIGHTING BOARD (VOL)	
213	2E		B19-2373-03	LIGHTING BOARD (TRIANGLE)	
215	3E		B43-1535-04	BADGE	
216	1C		D10-4589-04	LEVER	K1E1E2
219	3D		E39-0884-05	WIRING HARNESS (FRONT AUX)	
△ DC1	1C		E30-6428-05	DC CORD	K1M1
△ DC2	1C		E30-6671-05	DC CORD	E1E2
FC1	1D		E39-0811-05	FLAT CABLE (CD)	
△ F1	2D		F52-0023-05	FUSE (MINI BLADE TYPE) (10A)	
-		*	H54-3899-03	ITEM CARTON CASE	K1
-		*	H54-3900-03	ITEM CARTON CASE	M1
-		*	H54-3901-03	ITEM CARTON CASE	E1
-		*	H54-4101-03	ITEM CARTON CASE	E2
225	1D		H30-0595-04	ADHESIVE DOUBLE-COATED TAPE	K1
226	1D		J22-0429-13	MOUNTING HARDWARE ASSY	K1E1E2
230	2F		K24-4638-03	PUSH KNOB (SRC)	
231	2E		K24-4448-03	PUSH KNOB (DISP)	
232	3F		K24-4450-03	PUSH KNOB (EJECT)	
234	2E		K24-4454-03	PUSH KNOB (ATT)	
235	3F		K25-1787-02	PUSH KNOB (PRESET)	
236	2F		K25-1801-03	PUSH KNOB (AUTO/Q)	K1M1
236	2F		K25-1820-03	PUSH KNOB (TI/Q)	E1E2
237	3E		K28-0195-03	KEY TOP (FM/AM)	
238	3E		K28-0175-03	KNOB ASSY (VOL)	
240	3E		K29-7141-03	KNOB BASE (FM/AM)	
241	2D		L92-0638-05	FERRITE CORE	E1E2
245	1C		N99-1779-05	SCREW SET	K1M1
A	2E		N78-2660-48	PAN HEAD TAPTITE SCREW	

Ref. No.	Ad d	New	Parts No.	Description	Desti- nation
B	2F		N80-2006-48	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	
246	1C		W01-1704-05	COMPACT DISC	
DME1	1D		X92-5870-00	MECHANISM ASSY (DXM-6C20W)	
SYNTHESIZER UNIT (X15-1050-10)					
J1	3C		E59-0849-05	RECTANGULAR PLUG (USB)	
WH1	3C	*	E39-0927-05	WIRING HARNESS	
SWITCH UNIT (X16-614x-xx)					
D2			B30-1566-05	LED (1608,RED)	M1E2
D2-10			B30-1566-05	LED (1608,RED)	K1E1
D3-10			B30-1575-05	LED (1608,YG)	M1E2
D12-17			B30-1566-05	LED (1608,RED)	K1E1
D12-17			B30-1575-05	LED (1608,YG)	M1E2
D20-22			B30-1766-05	LED	
D26,27			B30-1766-05	LED	
C1-4			CK73GB1H104K	CHIP C 0.10UF K	
C5			CK73FB1A225K	CHIP C 2.2UF K	
C14			CK73GB1H103K	CHIP C 0.010UF K	M1
C14,15			CK73GB1H103K	CHIP C 0.010UF K	K1E1E2
C15			CK73GB1H473K	CHIP C 0.047UF K	M1
CN1			E41-2672-05	PIN ASSY	
J1			E59-0851-05	RECTANGULAR PLUG	
J2			E11-0650-05	3.5D PHONE JACK	
257	1F		J19-7119-12	HOLDER	
CP1,2			RK74GB1J101J	CHIP-COM 100 J 1/16W	
CP3			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP4			RK74GB1J222J	CHIP-COM 2.2K J 1/16W	
CP5,6			RK74GB1J473J	CHIP-COM 47K J 1/16W	
R1			RK73EB2E101J	CHIP R 100 J 1/4W	
R2			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R3-9			RK73EB2E101J	CHIP R 100 J 1/4W	
R18			RK73GB2A104J	CHIP R 100K J 1/10W	
R19,20			RK73GB2A101J	CHIP R 100 J 1/10W	
R21			RK73GB2A104J	CHIP R 100K J 1/10W	
R22			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R24			RK73PB2H220J	CHIP R 22 J 1/2W	
R25,26			RK73PB2H330J	CHIP R 33 J 1/2W	
R30			RK73GB2A101J	CHIP R 100 J 1/10W	
R31			RK73GB2A104J	CHIP R 100K J 1/10W	
R39-43			RK73FB2B511J	CHIP R 510 J 1/8W	M1E2
R39-43			RK73FB2B621J	CHIP R 620 J 1/8W	K1E1
R45			RK73EB2E561J	CHIP R 560 J 1/4W	
R47			RK73EB2E911J	CHIP R 910 J 1/4W	
R49			RK73EB2E561J	CHIP R 560 J 1/4W	
R50,51			RK73GB2A103J	CHIP R 10K J 1/10W	
S2			S70-0106-05	TACT SWITCH	

K1 : DPX502 M1 : DPX-MP5100U E1 : DPX502U E2 : DPX502UY
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

SWITCH UNIT (X16-614x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination
S3,4			S70-0051-15	TACT SWITCH	
S5,6			S70-0901-05	TACT SWITCH	
S7			S70-0051-15	TACT SWITCH	
S8-10			S70-0901-05	TACT SWITCH	
S11			S70-0051-15	TACT SWITCH	
S12			S70-0901-05	TACT SWITCH	
S13-15			S70-0051-15	TACT SWITCH	
S1			T99-0457-15	ROTARY ENCODER	
ED1	1F		3-BT-249INK	FLUORESCENT INDICATOR TUBE	K1E1E2
ED1	1F		3-BT-251INK	FLUORESCENT INDICATOR TUBE	M1
IC1			PNA4S22M02KW	ANALOGUE IC	
Q1-3			2SA1774	TRANSISTOR	
Q12			RT1N441U	TRANSISTOR	

CD PLAYER UNIT (X32-5980-02) IN CD MECHA

C1			CK73GB1A105K	CHIP C 1.0UF K	
C3			CK73GB0J475K	CHIP C 4.7UF K	
C21,22			C93-1451-05	CHIP C 0.10UF K	
C24			C93-1451-05	CHIP C 0.10UF K	
C26			C93-1451-05	CHIP C 0.10UF K	
C31			CK73GB1C224K	CHIP C 0.22UF K	
C33			CK73GB1H472K	CHIP C 4700PF K	
C34			CK73GB1H682K	CHIP C 6800PF K	
C35			CK73GB1H102K	CHIP C 1000PF K	
C36,37			CK73GB1H682K	CHIP C 6800PF K	
C38			CK73GB1H471K	CHIP C 470PF K	
C39			CK73FB1A225K	CHIP C 2.2UF K	
C51			CK73FB0J106K	CHIP C 10UF K	
C52			CK73GB1A105K	CHIP C 1.0UF K	
C53			CK73GB1H223K	CHIP C 0.022UF K	
C54			CK73GB1H332K	CHIP C 3300PF K	
C55			CK73GB1A334K	CHIP C 0.33UF K	
C56			CK73FB0J475K	CHIP C 4.7UF K	
C57			C93-1451-05	CHIP C 0.10UF K	
C58			CC73GCH1H681J	CHIP C 680PF J	
C59			C93-1451-05	CHIP C 0.10UF K	
C60			CK73GB1H223K	CHIP C 0.022UF K	
C61			CC73GCH1H102J	CHIP C 1000PF J	
C62			CK73GB1C823K	CHIP C 0.082UF K	
C63			CC73GCH1H102J	CHIP C 1000PF J	
C64			CK73GB1A334K	CHIP C 0.33UF K	
C72			C93-1451-05	CHIP C 0.10UF K	
C74,75			C93-1451-05	CHIP C 0.10UF K	
C77,78			C93-1451-05	CHIP C 0.10UF K	
C81,82			CC73GCH1H150J	CHIP C 15PF J	
C84			CK73GB1A105K	CHIP C 1.0UF K	
C85			CK73GB1H102K	CHIP C 1000PF K	
CN1			E41-2612-05	FLAT CABLE CONNECTOR	
CN2			E41-2083-15	FLAT CABLE CONNECTOR	
X2			L77-2867-05	CRYSTAL RESONATOR (16.9344MHZ)	
CP1			RK74GA1J222J	CHIP-COM 2.2K J 1/16W	
CP2			RK74GA1J103J	CHIP-COM 10K J 1/16W	
CP4			RK74GA1J101J	CHIP-COM 100 J 1/16W	

Ref. No.	Add	New	Parts No.	Description	Destination
CP11			RK74GA1J103J	CHIP-COM 10K J 1/16W	
R15			RK73GB2A103J	CHIP R 10K J 1/10W	
R16			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R23			RK73GB2A750J	CHIP R 75 J 1/10W	
R24			RK73GB2A101J	CHIP R 100 J 1/10W	
R27			RK73GB2A101J	CHIP R 100 J 1/10W	
R31			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R32,33			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R34			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R37			RK73GB2A103J	CHIP R 10K J 1/10W	
R39			RK73GB2A103J	CHIP R 10K J 1/10W	
R41			RK73GB2A103J	CHIP R 10K J 1/10W	
R51			RK73GB2A103J	CHIP R 10K J 1/10W	
R52			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R53			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R54,55			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R56			RK73GB2A473J	CHIP R 47K J 1/10W	
R57			RK73GB2A273J	CHIP R 27K J 1/10W	
R58			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R59			RK73GB2A273J	CHIP R 27K J 1/10W	
R60,61			RK73GB2A153J	CHIP R 15K J 1/10W	
R62			RK73GB2A133J	CHIP R 13K J 1/10W	
R63			RK73GB2A183J	CHIP R 18K J 1/10W	
R64			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R65,66			RK73GB2A153J	CHIP R 15K J 1/10W	
R73			RK73GB2A910J	CHIP R 91 J 1/10W	
R74			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R75			RK73FB2B4R7J	CHIP R 4.7 J 1/8W	
R76			RK73GB2A104J	CHIP R 100K J 1/10W	
R77			RK73GB2A823J	CHIP R 82K J 1/10W	
R78			RK73GB2A821J	CHIP R 820 J 1/10W	
R79			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R82-85			RK73GB2A103J	CHIP R 10K J 1/10W	
R86			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R87			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R88,89			RK73GB2A103J	CHIP R 10K J 1/10W	
R91,92			RK73GB2A103J	CHIP R 10K J 1/10W	
R100			RK73GB2A225J	CHIP R 2.2M J 1/10W	
R102			RK73GB2A000JX	CHIP R 0.0 J 1/10W	
R103			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	
R105			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	
R108			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R110-112			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	
R131			RK73GB2A103J	CHIP R 10K J 1/10W	
S1,2			S68-0863-05	PUSH SWITCH	
S3			S68-0862-05	PUSH SWITCH	
D1			DAN202U	DIODE	
D2			MA2S784-F	DIODE	
D3			DAN202U	DIODE	
IC1			MN6627781KC	MOS-IC	
IC2			XC6219B332PR	ANALOGUE IC	
IC6			BA5824FP	ANALOGUE IC	
Q3			UM6K1N	DUAL FET	
Q6			2SB1295-E	TRANSISTOR	

PARTS LIST

CD PLAYER UNIT (X32-5980-02) IN CD MECHA

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
Q7			2SB0970	TRANSISTOR		C414			CK73FB1C105K	CHIP C 1.0UF K	
Q8,9			DTC114YUA	DIGITAL TRANSISTOR		C420,421			CC73GCH1H050C	CHIP C 5.0PF C	
ELECTRIC UNIT (X34-560x-xx)						C422			CC73GCH1H100D	CHIP C 10PF D	
C1			C90-6746-05	ELECTRO 3300UF 16WV		C423,424			C90-6711-05	ELECTRO 1UF 50WV	
C2			CK73FB1C105K	CHIP C 1.0UF K		C500			CK73GB1H103K	CHIP C 0.010UF K	K1E1E2
C3			CD04AY1A221M	ELECTRO 220UF 10WV		C501			CK73FB1A225K	CHIP C 2.2UF K	K1E1E2
C4			CD04BA0J101M	ELECTRO 100UF 6.3WV		C502			CC73GCH1H331J	CHIP C 330PF J	K1E1E2
C5			C90-5692-05	ELECTRO 220UF 16WV		C503			CD04AS1V100M	ELECTRO 10UF 35WV	K1E1E2
C6			CK73GB1H103K	CHIP C 0.010UF K		C504-507			CK73GB1H103K	CHIP C 0.010UF K	
C7			CD04AS1V100M	ELECTRO 10UF 35WV		C509,510			CC73GCH1H270J	CHIP C 27PF J	K1E1E2
C8			CD04AY1A101M	ELECTRO 100UF 10WV		C512			CC73GCH1H561J	CHIP C 560PF J	K1E1E2
C9			CK73GB1A474K	CHIP C 0.47UF K		C600			CD04AS1V100M	ELECTRO 10UF 35WV	
C10			CD04AS1C220M	ELECTRO 22UF 16WV		C601,602			CK73GB1H102K	CHIP C 1000PF K	
C11			CD04AS1V100M	ELECTRO 10UF 35WV		C603			CD04AS1V100M	ELECTRO 10UF 35WV	
C12			CK73FB1E474K	CHIP C 0.47UF K		C605,606			CK73GB1H102K	CHIP C 1000PF K	
C14			CK73GB1H104K	CHIP C 0.10UF K		C608			CD04AS1V100M	ELECTRO 10UF 35WV	
C15,16			CD04BK1A221M	ELECTRO 220UF 10WV		C611			CD04AS1V100M	ELECTRO 10UF 35WV	
C17			CD04BK1E101M	ELECTRO 100UF 25WV		C612			CK73FB1E474K	CHIP C 0.47UF K	
C18,19			CK73GB1H104K	CHIP C 0.10UF K		C613			CD04AT0J470M	ELECTRO 47UF 6.3WV	
C20			CK73GB1H222K	CHIP C 2200PF K		C614			CK73FB1E474K	CHIP C 0.47UF K	
C21			CK73FB1C105K	CHIP C 1.0UF K		C615			CK73GB1H103K	CHIP C 0.010UF K	
C22			CK73GB1H472K	CHIP C 4700PF K		C617			CK73FB1E474K	CHIP C 0.47UF K	
C50			CK73GB1H104K	CHIP C 0.10UF K		C618			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C52			CK73GB1A105K	CHIP C 1.0UF K		C619			CK73FB1E474K	CHIP C 0.47UF K	
C53			CK73GB1H103K	CHIP C 0.010UF K		C620			CK73GB1H103K	CHIP C 0.010UF K	
C54			CD04AS1H3R3M	ELECTRO 3.3UF 50WV		C700			CD04AS1V100M	ELECTRO 10UF 35WV	
C55			CK73FB1C105K	CHIP C 1.0UF K		C702			CK73GB1H104K	CHIP C 0.10UF K	
C56,57			CK73GB1H103K	CHIP C 0.010UF K		C703			CC73GCH1H220J	CHIP C 22PF J	
C58			CK73GB1H223K	CHIP C 0.022UF K		C705			CC73GCH1H220J	CHIP C 22PF J	
C100			CK73GB1H104K	CHIP C 0.10UF K		C709			CK73GB1H104K	CHIP C 0.10UF K	K1
C101,102			CC73GCH1H220J	CHIP C 22PF J		C711			CD04AS1V100M	ELECTRO 10UF 35WV	
C103-105			CK73GB1H103K	CHIP C 0.010UF K		C713			CK73GB1H104K	CHIP C 0.10UF K	
C106			CK73GB1H102K	CHIP C 1000PF K		C714			CD04AS1V100M	ELECTRO 10UF 35WV	
C107,108			CK73GB1H103K	CHIP C 0.010UF K		C715			CC73GCH1H151J	CHIP C 150PF J	
C110			CK73GB1H103K	CHIP C 0.010UF K		C719			CK73GB1H104K	CHIP C 0.10UF K	
C113			CD04AS0J470M	ELECTRO 47UF 6.3WV		C720			CC73GCH1H681J	CHIP C 680PF J	
C114,115			CK73GB1H103K	CHIP C 0.010UF K		C722			CD04AS1V100M	ELECTRO 10UF 35WV	
C204			CK73GB1H104K	CHIP C 0.10UF K	M1	C723			CK73GB1A105K	CHIP C 1.0UF K	
C204-206			CK73GB1H104K	CHIP C 0.10UF K	K1E1E2	C725			CK73GB1H104K	CHIP C 0.10UF K	
C206			CK73GB1H104K	CHIP C 0.10UF K	M1	C726			CK73GB1A105K	CHIP C 1.0UF K	
C207			CD04BK1A221M	ELECTRO 220UF 10WV		C728			CC73GCH1H681J	CHIP C 680PF J	
C300,301			CD04AS1H3R3M	ELECTRO 3.3UF 50WV		C731			CC73GCH1H151J	CHIP C 150PF J	
C302			CK73FB1C105K	CHIP C 1.0UF K		C732			CK73GB1H473K	CHIP C 0.047UF K	
C303,304			CC73GCH1H101J	CHIP C 100PF J		C736			CK73GB1A105K	CHIP C 1.0UF K	
C305,306			CD04AS1H2R2M	ELECTRO 2.2UF 50WV		C737			CD04AS1V100M	ELECTRO 10UF 35WV	
C307,308			CK73FB1E474K	CHIP C 0.47UF K		C738			CK73GB1A105K	CHIP C 1.0UF K	
C310-312			CD04AS1H2R2M	ELECTRO 2.2UF 50WV		C739,740			CC73GCH1H120J	CHIP C 12PF J	
C313,314			CK73FB1C105K	CHIP C 1.0UF K		C741			CK73FB0J106K	CHIP C 10UF K	
C315			CK73GB1H103K	CHIP C 0.010UF K		C742-744			CK73GB1H103K	CHIP C 0.010UF K	
C316			CD04AS1V100M	ELECTRO 10UF 35WV		C745			CC73GCH1H331J	CHIP C 330PF J	
C317			CD04AS1C470M	ELECTRO 47UF 16WV		C746,747			CK73GB1H103K	CHIP C 0.010UF K	
C400			CK73FB1C105K	CHIP C 1.0UF K		C749			CK73FB0J106K	CHIP C 10UF K	
C402			CD04BA1E330M	ELECTRO 33UF 25WV		C750-762			CK73GB1H103K	CHIP C 0.010UF K	
C403-406			C90-5620-05	ELECTRO 0.47UF 50WV		C763			CK73GB1H104K	CHIP C 0.10UF K	
						C764-768			CK73GB1H103K	CHIP C 0.010UF K	

K1 : DPX502 M1 : DPX-MP5100U E1 : DPX502U E2 : DPX502UY
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-560x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination
C769			CK73GB1H104K	CHIP C 0.10UF K	
C773			CK73GB1H103K	CHIP C 0.010UF K	
C801			CK73GB1H102K	CHIP C 1000PF K	K1E1E2
C804,805			CK73GB1H102K	CHIP C 1000PF K	K1E1E2
C805			CK73GB1H102K	CHIP C 1000PF K	M1
C806-808			CC73GCH1H471J	CHIP C 470PF J	
C809			CK73GB1H102K	CHIP C 1000PF K	E1E2
C810			CK73GB1H103K	CHIP C 0.010UF K	E1E2
C901-906			CK73GB1H103K	CHIP C 0.010UF K	K1M1
C903-905			CK73GB1H103K	CHIP C 0.010UF K	E1E2
C911-918			CK73GB1H472K	CHIP C 4700PF K	E1E2
C919,920			CK73GB1H104K	CHIP C 0.10UF K	E1E2
C921-926			CC73GCH1H221J	CHIP C 220PF J	E1E2
C930			CK73GB1H104K	CHIP C 0.10UF K	E1E2
C941			CC73GCH1H680J	CHIP C 68PF J	K1
C942			CK73GB1A105K	CHIP C 1.0UF K	E1E2
C943			CK73GB1H103K	CHIP C 0.010UF K	E1E2
C944			CK73GB1A105K	CHIP C 1.0UF K	E1E2
C950			CK73GB1H103K	CHIP C 0.010UF K	M1
260	2D		E30-6674-05	CORD WITH PLUG (ANT)	
CN5			E41-2352-05	FLAT CABLE CONNECTOR	
CN202			E41-1685-05	PIN ASSY	
CN601			E40-6526-05	PIN ASSY	
J1			E58-0991-05	RECTANGULAR RECEPTACLE	
J200			E58-0993-05	RECTANGULAR RECEPTACLE	
J600			E63-0896-05	PIN JACK	
J601			E56-0855-05	CYLINDRICAL RECEPTACLE	
WH1	2D		E30-6706-05	WIRING HARNESS (REMOTE)	M1E1E2
L1			L33-2365-05	CHOKE COIL ASSY	
L2			L33-2362-05	CHOKE COIL	
L100			L41-4795-33	SMALL FIXED INDUCTOR (4.7UH)	
L200			L92-0616-05	CHIP FERRITE	
L500			L41-4795-33	SMALL FIXED INDUCTOR (4.7UH)	K1E1E2
L700			L92-0615-05	CHIP FERRITE	
X100			L78-0872-05	RESONATOR (12MHZ)	
X101			L77-2880-05	CRYSTAL RESONATOR	
X500			L77-2002-05	CRYSTAL RESONATOR	K1E1E2
X700			L77-2880-05	CRYSTAL RESONATOR	
X701			L77-2908-05	CRYSTAL RESONATOR (12.000MHZ)	
D	2D		N83-3005-48	PAN HEAD TAPTITE SCREW	
G	2D		N80-3010-48	PAN HEAD TAPTITE SCREW	
H	2D		N82-2608-48	BINDING HEAD TAPTITE SCREW	
CP100,101			RK74GB1J101J	CHIP-COM 100 J 1/16W	
CP103			RK74GA1J222J	CHIP-COM 2.2K J 1/16W	
CP104			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP105			RK74GA1J222J	CHIP-COM 2.2K J 1/16W	
CP107,108			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP700			RK74HB1J330J	CHIP-COM 33 J 1/16W	
CP701			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP703,704			RK74HB1J330J	CHIP-COM 33 J 1/16W	
CP705			RK74HB1J101J	CHIP-COM 100 J 1/16W	
CP706-708			RK74HB1J330J	CHIP-COM 33 J 1/16W	
CP709-711			RK74HB1J101J	CHIP-COM 100 J 1/16W	

Ref. No.	Add	New	Parts No.	Description	Destination
CP712-719			RK74HB1J100J	CHIP-COM 10 J 1/16W	
CP720			RK74HB1J222J	CHIP-COM 22K J 1/16W	
R1,2			RK73EB2E103J	CHIP R 10K J 1/4W	
R3			RK73FB2B221J	CHIP R 220 J 1/8W	
R4			RK73GH2A243D	CHIP R 24K D 1/10W	
R5			RK73GH2A432D	CHIP R 4.3K D 1/10W	
R6			RK73FB2B123J	CHIP R 12K J 1/8W	
R8			RK73FB2B152J	CHIP R 1.5K J 1/8W	
R9			RK73GB2A104J	CHIP R 100K J 1/10W	
R10			RK73FB2B681J	CHIP R 680 J 1/8W	
R11			RK73GB2A104J	CHIP R 100K J 1/10W	
R12			RK73FB2B222J	CHIP R 2.2K J 1/8W	
R13			RK73GB2A473J	CHIP R 47K J 1/10W	
R14			RK73GH2A623D	CHIP R 62K D 1/10W	
R15			RK73GH2A153D	CHIP R 15K D 1/10W	
R16			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R17			RK73GB2A683J	CHIP R 68K J 1/10W	
R18			RK73GB2A104J	CHIP R 100K J 1/10W	
R19			RK73GB2A223J	CHIP R 22K J 1/10W	
R20			RK73FB2B822J	CHIP R 8.2K J 1/8W	
R21			RK73GB2A473J	CHIP R 47K J 1/10W	
R22			RK73GB2A103J	CHIP R 10K J 1/10W	
R25			RK73GB2A223J	CHIP R 22K J 1/10W	
R50,51			RK73GB2A103J	CHIP R 10K J 1/10W	
R52			RK73GB2A223J	CHIP R 22K J 1/10W	K1M1
R54			RK73PB2H221J	CHIP R 220 J 1/2W	K1M1
R56			RK73PB2H221J	CHIP R 220 J 1/2W	K1M1
R57			R92-5024-05	CHIP R 1K J 3/4W	
R59			RK73GB2A183J	CHIP R 18K J 1/10W	
R60			RK73GB2A223J	CHIP R 22K J 1/10W	
R61			RK73GB2A104J	CHIP R 100K J 1/10W	
R62			RK73GB2A473J	CHIP R 47K J 1/10W	
R63,64			RK73GB2A104J	CHIP R 100K J 1/10W	
R65			RK73FB2B203J	CHIP R 20K J 1/8W	
R66			R92-5024-05	CHIP R 1K J 3/4W	
R67			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R68			RK73EB2E473J	CHIP R 47K J 1/4W	
R69			R92-5088-05	CHIP R 3.3K J 3/4W	
R70			RK73FB2B472J	CHIP R 4.7K J 1/8W	
R71			RK73FB2B683J	CHIP R 68K J 1/8W	
R72			RK73GB2A393J	CHIP R 39K J 1/10W	
R100			RK73GB2A225J	CHIP R 2.2M J 1/10W	
R101-103			RK73GB2A104J	CHIP R 100K J 1/10W	
R105			RK73GB2A103J	CHIP R 10K J 1/10W	
R107			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R110			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R111			RK73GB2A473J	CHIP R 47K J 1/10W	
R112			RK73GB2A101J	CHIP R 100 J 1/10W	
R115			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R116			RK73GB2A223J	CHIP R 22K J 1/10W	K1E1E2
R117			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R118			RK73GB2A103J	CHIP R 10K J 1/10W	
R121			RK73GB2A104J	CHIP R 100K J 1/10W	
R122			RK73GB2A101J	CHIP R 100 J 1/10W	
R123,124			RK73GB2A104J	CHIP R 100K J 1/10W	

K1 : DPX502 M1 : DPX-MP5100U E1 : DPX502U E2 : DPX502UY
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-560x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R125			RK73GB2A473J	CHIP R 47K J 1/10W		R508			RK73FB2B102J	CHIP R 1.0K J 1/8W	
R126			RK73GB2A222J	CHIP R 2.2K J 1/10W	M1	R509-511			RK73GB2A222J	CHIP R 2.2K J 1/10W	K1E1E2
R126,127			RK73GB2A222J	CHIP R 2.2K J 1/10W	K1E1E2	R512			RK73GB2A512J	CHIP R 5.1K J 1/10W	K1E1E2
R128			RK73GB2A101J	CHIP R 100 J 1/10W		R600			RK73FB2B181J	CHIP R 180 J 1/8W	
R131			RK73GB2A473J	CHIP R 47K J 1/10W		R601			RK73GB2A331J	CHIP R 330 J 1/10W	
R132			RK73GB2A471J	CHIP R 470 J 1/10W		R602,603			RK73GB2A223J	CHIP R 22K J 1/10W	
R133,134			RK73GB2A104J	CHIP R 100K J 1/10W		R604			RK73FB2B181J	CHIP R 180 J 1/8W	
R135			RK73GB2A471J	CHIP R 470 J 1/10W		R605			RK73GB2A331J	CHIP R 330 J 1/10W	
R136			RK73GB2A472J	CHIP R 4.7K J 1/10W		R613			RK73GB2A331J	CHIP R 330 J 1/10W	
R137			RK73GB2A102J	CHIP R 1.0K J 1/10W		R614,615			RK73GB2A223J	CHIP R 22K J 1/10W	
R138			RK73GB2A104J	CHIP R 100K J 1/10W		R617			RK73GB2A331J	CHIP R 330 J 1/10W	
R139			RK73GB2A102J	CHIP R 1.0K J 1/10W		R618			RK73EB2E100J	CHIP R 10 J 1/4W	
R140			RK73GB2A101J	CHIP R 100 J 1/10W		R619			RK73GB2A123J	CHIP R 12K J 1/10W	
R141			RK73GB2A472J	CHIP R 4.7K J 1/10W		R620			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R142			RK73GB2A101J	CHIP R 100 J 1/10W		R621			RK73GB2A123J	CHIP R 12K J 1/10W	
R146			RK73GB2A102J	CHIP R 1.0K J 1/10W		R622			RK73EB2E100J	CHIP R 10 J 1/4W	
R147			RK73GB2A222J	CHIP R 2.2K J 1/10W		R623			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R148			RK73GB2A472J	CHIP R 4.7K J 1/10W		R624			RK73EB2E432J	CHIP R 4.3K J 1/4W	
R149			RK73GB2A222J	CHIP R 2.2K J 1/10W		R625			RK73EB2E101J	CHIP R 100 J 1/4W	
R151,152			RK73GB2A104J	CHIP R 100K J 1/10W		R626			RK73EB2E432J	CHIP R 4.3K J 1/4W	
R153			RK73GB2A101J	CHIP R 100 J 1/10W		R627-631			RK73EB2E101J	CHIP R 100 J 1/4W	
R154,155			RK73GB2A392J	CHIP R 3.9K J 1/10W		R632			RK73EB2E100J	CHIP R 10 J 1/4W	
R157			RK73GB2A223J	CHIP R 22K J 1/10W		R633			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R158			RK73GB2A104J	CHIP R 100K J 1/10W		R634			RK73EB2E100J	CHIP R 10 J 1/4W	
R159			RK73GB2A223J	CHIP R 22K J 1/10W	M1	R635			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R159			RK73GB2A473J	CHIP R 47K J 1/10W	K1E2	R636,637			RK73FB2B181J	CHIP R 180 J 1/8W	
R159,160			RK73GB2A223J	CHIP R 22K J 1/10W	E1	R702			RK73GB2A473J	CHIP R 47K J 1/10W	
R160			RK73GB2A223J	CHIP R 22K J 1/10W	E2	R703			RK73GB2A515J	CHIP R 5.1M J 1/10W	
R160			RK73GB2A473J	CHIP R 47K J 1/10W	M1	R704			RK73GB2A101J	CHIP R 100 J 1/10W	
R162-164			RK73GB2A473J	CHIP R 47K J 1/10W		R705			RK73GB2A473J	CHIP R 47K J 1/10W	
R165			RK73GB2A104J	CHIP R 100K J 1/10W		R706			RK73GB2A123J	CHIP R 12K J 1/10W	
R207,208			RK73EB2E101J	CHIP R 100 J 1/4W		R707			RK73GB2A473J	CHIP R 47K J 1/10W	
R209			RK73EB2E102J	CHIP R 1.0K J 1/4W		R709,710			RK73GB2A473J	CHIP R 47K J 1/10W	
R210-214			RK73EB2E101J	CHIP R 100 J 1/4W		R711			RK73GH2A392D	CHIP R 3.9K D 1/10W	
R215			RK73EB2E102J	CHIP R 1.0K J 1/4W		R712			RK73GB2A103J	CHIP R 10K J 1/10W	
R216,217			RK73GB2A153J	CHIP R 15K J 1/10W		R713			RK73GH2A822D	CHIP R 8.2K D 1/10W	
R218,219			RK73GB2A101J	CHIP R 100 J 1/10W		R714			RK73GH2A682D	CHIP R 6.8K D 1/10W	
R220			RK73EB2E102J	CHIP R 1.0K J 1/4W	M1E1E2	R717			RK73GB2A221J	CHIP R 220 J 1/10W	
R224			RK73PB2H2R0J	CHIP R 2.0 J 1/2W		R718,719			RK73GB2A473J	CHIP R 47K J 1/10W	
R300,301			RK73GB2A103J	CHIP R 10K J 1/10W		R720			RK73GH2A104D	CHIP R 100K D 1/10W	
R302,303			RK73GB2A101J	CHIP R 100 J 1/10W		R721			RK73GB2A473J	CHIP R 47K J 1/10W	
R304			RK73EB2E2R2J	CHIP R 2.2 J 1/4W		R722			RK73GB2A101J	CHIP R 100 J 1/10W	
R400			RK73GB2A333J	CHIP R 33K J 1/10W		R723,724			RK73GB2A473J	CHIP R 47K J 1/10W	
R401			RK73GB2A104J	CHIP R 100K J 1/10W		R725			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R402			RK73GB2A102J	CHIP R 1.0K J 1/10W		R729			RK73GB2A103J	CHIP R 10K J 1/10W	
R403			RK73GB2A432J	CHIP R 4.3K J 1/10W		R731			RK73GH2A822D	CHIP R 8.2K D 1/10W	
R404			RK73GB2A100J	CHIP R 10 J 1/10W		R732			RK73GH2A682D	CHIP R 6.8K D 1/10W	
R405			RK73GB2A221J	CHIP R 220 J 1/10W		R734			RK73GH2A392D	CHIP R 3.9K D 1/10W	
R406			RK73GB2A223J	CHIP R 22K J 1/10W		R735,736			RK73GB2A223J	CHIP R 22K J 1/10W	
R410,411			RK73GB2A331J	CHIP R 330 J 1/10W		R738,739			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R412			RK73GB2A161J	CHIP R 160 J 1/10W		R740			RK73GB2A101J	CHIP R 100 J 1/10W	
R502			RK73GB2A102J	CHIP R 1.0K J 1/10W	K1E1E2	R741,742			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R503			RK73GB2A223J	CHIP R 22K J 1/10W		R743			RK73GB2A223J	CHIP R 22K J 1/10W	
R504,505			RK73GB2A471J	CHIP R 470 J 1/10W		R744			RK73GB2A561J	CHIP R 560 J 1/10W	
R506,507			RK73GB2A472J	CHIP R 4.7K J 1/10W		R745			RK73GB2A100J	CHIP R 10 J 1/10W	

K1 : DPX502 M1 : DPX-MP5100U E1 : DPX502U E2 : DPX502UY
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-560x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination
R746			RK73GB2A101J	CHIP R 100 J 1/10W	
R747			RK73GB2A223J	CHIP R 22K J 1/10W	
R748			RK73GB2A100J	CHIP R 10 J 1/10W	
R749			RK73GB2A515J	CHIP R 5.1M J 1/10W	
R750			RK73GB2A100J	CHIP R 10 J 1/10W	
R753			RK73GB2A153J	CHIP R 15K J 1/10W	
R754			RK73GB2A101J	CHIP R 100 J 1/10W	
R755,756			RK73GB2A470J	CHIP R 47 J 1/10W	
R758			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R759-762			RK73GB2A223J	CHIP R 22K J 1/10W	
R764,765			RK73GB2A223J	CHIP R 22K J 1/10W	
R766			RK73GB2A100J	CHIP R 10 J 1/10W	
R767			RK73GB2A223J	CHIP R 22K J 1/10W	
R768			RK73GB2A100J	CHIP R 10 J 1/10W	
R769			RK73GB2A104J	CHIP R 100K J 1/10W	
R770			RK73GB2A223J	CHIP R 22K J 1/10W	
R771,772			RK73GB2A680J	CHIP R 68 J 1/10W	
R773			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R774			RK73GB2A680J	CHIP R 68 J 1/10W	
R775			RK73GB2A153J	CHIP R 15K J 1/10W	
R776			RK73GB2A330J	CHIP R 33 J 1/10W	
R777			RK73GB2A153J	CHIP R 15K J 1/10W	
R778			RK73GB2A330J	CHIP R 33 J 1/10W	
R779			RK73GB2A101J	CHIP R 100 J 1/10W	
R781			RK73GB2A104J	CHIP R 100K J 1/10W	
R782-784			RK73GB2A101J	CHIP R 100 J 1/10W	
R786			RK73GB2A101J	CHIP R 100 J 1/10W	
R787			RK73GB2A104J	CHIP R 100K J 1/10W	
R788			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R789			RK73GB2A104J	CHIP R 100K J 1/10W	
R790			RK73GB2A680J	CHIP R 68 J 1/10W	
R791,792			RK73GB2A104J	CHIP R 100K J 1/10W	
R793			RK73GB2A220J	CHIP R 22 J 1/10W	
R794			RK73GB2A101J	CHIP R 100 J 1/10W	
R795			RK73GB2A470J	CHIP R 47 J 1/10W	
R796			RK73GB2A101J	CHIP R 100 J 1/10W	
R797			RK73GB2A103J	CHIP R 10K J 1/10W	
R798-800			RK73GB2A470J	CHIP R 47 J 1/10W	
R801-804			RK73GB2A101J	CHIP R 100 J 1/10W	
R805,806			RK73GB2A100J	CHIP R 10 J 1/10W	
R807-815			RK73GB2A223J	CHIP R 22K J 1/10W	
R816-819			RK73GB2A100J	CHIP R 10 J 1/10W	
R820,821			RK73GB2A101J	CHIP R 100 J 1/10W	
R824			RK73GB2A103J	CHIP R 10K J 1/10W	
R911			RK73GB2A100J	CHIP R 10 J 1/10W	E1E2
R913-916			RK73GB2A000J	CHIP R 0.0 J 1/10W	K1M1
R913-916			RK73GB2A470J	CHIP R 47 J 1/10W	E1E2
R930			RK73GB2A101J	CHIP R 100 J 1/10W	
R952			RK73GB2A100J	CHIP R 10 J 1/10W	K1E1E2
R960			RK73GB2A220J	CHIP R 22 J 1/10W	
R961,962			RK73GB2A470J	CHIP R 47 J 1/10W	
R963,964			RK73GB2A000J	CHIP R 0.0 J 1/10W	E1E2
R965			RK73GB2A100J	CHIP R 10 J 1/10W	E1E2
R966			RK73GB2A000J	CHIP R 0.0 J 1/10W	K1E1E2
W2			R92-1252-05	CHIP R 0 OHM J 1/16W	E1E2

Ref. No.	Add	New	Parts No.	Description	Destination
W300			R92-2053-05	CHIP R 0 OHM J 1/8W	
W401			R92-1252-05	CHIP R 0 OHM J 1/16W	
W404			R92-1252-05	CHIP R 0 OHM J 1/16W	
W501			R92-1252-05	CHIP R 0 OHM J 1/16W	K1E1E2
W900			R92-1252-05	CHIP R 0 OHM J 1/16W	
D1			S2V60-5009F46	DIODE	
D2			RB160L-40	DIODE	
D3			UDZS5.6B	ZENER DIODE	
D5			UDZS8.2B	ZENER DIODE	
D6			UDZS20B	ZENER DIODE	
D7			UDZS12B	ZENER DIODE	
D9			RB081L-20	DIODE	
D50,51			D1F60-5063	DIODE	
D52			UDZS6.2B	ZENER DIODE	
D53			UDZS6.8B	ZENER DIODE	
D55			UDZS6.8B	ZENER DIODE	
D57			MC2846	DIODE	
D58			02DZ4.7F-Y	ZENER DIODE	
D59-61			D1F60-5063	DIODE	
D213			02DZ6.2F-Y	ZENER DIODE	M1E1E2
D219,220			MSA-6802-E	SURGE ABSORBER	
D304-306			MC2846	DIODE	
D408			MC2846	DIODE	
D602			MC2846	DIODE	
D607			MC2846	DIODE	
D608-610			02DZ6.8F-Y	ZENER DIODE	
D611-616			02DZ6.2F-Y	ZENER DIODE	
D619-621			02DZ6.8F-Y	ZENER DIODE	
D700			MC2846	DIODE	
IC1			BD9781HFP	ANALOGUE IC	
IC2			M5237ML-CF0J	ANALOGUE IC	
IC100			S-80836CNNB-J	MOS-IC	
IC101			BR24L04FV-W	ROM IC	
IC102		*	30624MWPB60GP	MICROCONTROLLER IC	
IC103			74HC2G02DP	MOS-IC	
IC200			MIC2026-1YM	MOS-IC	
IC300			E-TDA7415CB	ANALOGUE IC	
IC400			E-TDA7850A	ANALOGUE IC	
IC500			LC72725KV	ANALOGUE IC	
IC700			PCM1754DB	MOS-IC	K1E1E2
IC702			341S2094	MICROPROCESSOR IC	
IC703			AK4117	MOS-IC	
IC704			NJM2100V-ZB	ANALOGUE IC	
IC705			TAR5S50-F	ANALOGUE IC	
IC708			SI-3033KMS	ANALOGUE IC	
IC709,710			TC7WT126FU-F	MOS-IC	
IC711			TCC760	MOS-IC	
IC712			TC74LVX08F-F	MOS-IC	
IC714			IC42S164007TIG	DRAM IC	
IC715			A29L80AUV4X9F	ROM IC	
IC716			R1114N181B-TR	ANALOGUE IC (1.8V LF)	
Q1			2SB1565	TRANSISTOR	
Q2			RT1P241M	TRANSISTOR	
Q3			2SB1565	TRANSISTOR	
Q4			2SC4081	TRANSISTOR	

K1 : DPX502 M1 : DPX-MP5100U E1 : DPX502U E2 : DPX502UY
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-560x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
Q5			2SB1565	TRANSISTOR		26			3B	D13-2155-04	WORM
Q6			RT1P241M	TRANSISTOR		27			2B	D13-2156-14	GEAR
Q7			2SC4081	TRANSISTOR		28			3B	D13-2157-04	GEAR
Q8			2SB1565	TRANSISTOR		29			2B	D13-2158-04	GEAR
Q9			2SC4081	TRANSISTOR		30			2B	D13-2168-04	GEAR
Q10			2SB1565	TRANSISTOR		31			3B	D13-2171-04	GEAR
Q11			RT1P241M	TRANSISTOR		32			1B	D13-2400-13	RACK (GEAR)
Q12			2SC4081	TRANSISTOR		33			2A	D14-0759-04	ROLLER
Q13			2SA1576A	TRANSISTOR		35			2B	D21-2382-04	SHAFT
Q14			RT1N241M	TRANSISTOR		36			1A	D23-0954-04	RETAINER
Q15			2SA1603A	TRANSISTOR		37			1B	D39-0246-05	DAMPER
Q16-18			RT1N241M	TRANSISTOR		38			2B	G01-3072-04	EXTENSION SPRING
Q50			RT1N144M	TRANSISTOR		39			2A	G01-3073-04	TORSION COIL SPRING
Q51			2SC4081	TRANSISTOR		40			2A	G01-3074-04	EXTENSION SPRING
Q52			RT1P141M	TRANSISTOR		41			1B	G01-4615-04	EXTENSION SPRING
Q53			RT1N144M	TRANSISTOR	K1M1	42			2A	G01-3076-04	EXTENSION SPRING
Q54			2SA1576A	TRANSISTOR		43			1B	G01-3077-14	EXTENSION SPRING
Q56			2SB1188 (Q,R)	TRANSISTOR	K1M1	44			2B	G02-1399-04	FLAT SPRING
Q57			2SC4081	TRANSISTOR		45			2B	G02-1547-04	FLAT SPRING
Q58			2SB1188 (Q,R)	TRANSISTOR		51			1A	J22-0473-21	MOUNTING HARDWARE
Q59			2SC4081	TRANSISTOR		52			3B	J22-0474-12	MOUNTING HARDWARE
Q60			RT1N441M	TRANSISTOR		53			1B	J22-0519-03	MOUNTING HARDWARE
Q500			2SB1689	TRANSISTOR		55			1A	J90-1138-41	GUIDE
Q501			RT1N241M	TRANSISTOR		56			1B	J90-1023-03	GUIDE
Q600			DTC143TUA	DIGITAL TRANSISTOR		DPC1			3A	J86-0039-05	FPC (LEAD FREE)
Q601			RT1P241M	TRANSISTOR		A			2B	N09-4460-15	TAPTITE SCREW (PT2X8)
Q602			DTC143TUA	DIGITAL TRANSISTOR		B			1B	N09-6317-05	TAPTITE SCREW (1.6X6.0)
Q605			DTC143TUA	DIGITAL TRANSISTOR		C			2B	N09-6004-15	MACHINE SCREW (M1.7X2.5)
Q606			RT1P241M	TRANSISTOR		E			2B	N09-6007-15	MACHINE SCREW (M2X2)
Q607			DTC143TUA	DIGITAL TRANSISTOR		F			1A	N09-6051-15	TAPTITE SCREW (PT2X5)
Q704			RT1P144M	TRANSISTOR		G			2A	N19-2163-04	FLAT WASHER (1.6X6X0.25)
Q706			RT1N144M	TRANSISTOR		H			1B	N39-2020-48	PAN HEAD MACHINE SCREW (M2X2)
A500	2C		X86-4040-11	FRONT-END UNIT	K1M1	J			1B	N09-6108-15	TAPTITE SCREW (M2X3.5)
A500	2C		X86-4042-70	FRONT-END UNIT	E1E2	K			3B	N09-6155-15	SEMS (TAPTITE SCREW) (PT2X6)
MECHANISM ASSY (X92-5870-00) DXM-6C20W											
1	2B		A10-5328-11	CHASSIS		DM1			3B	T42-1066-14	DC MOTOR (SPINDLE)
2	1B		A10-5329-11	CHASSIS		DM2			2B	T42-1067-14	DC MOTOR (LOADING/SLED)
5	2B		D10-4910-13	ARM ASSY		DPU1			2B	X93-2130-01	OPTICAL PICKUP 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		D10-4914-12	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							

K1 : DPX502 M1 : DPX-MP5100U E1 : DPX502U E2 : DPX502UY
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

SPECIFICATIONS

FM tuner section

Frequency range	
DPX502.....	87.9~107.9MHz (200kHz space)
DPX502U/DPX502UY.....	87.5~108.0MHz (50kHz space)
DPX-MP5100U	
.....	87.5~108.0MHz (50kHz space), 87.9~107.9MHz (200kHz space)
Usable sensitivity	
DPX502/DPX-MP5100U (S/N : 30dB)	9.3dBf (0.8µV/75Ω)
DPX502U/DPX502UY (S/N : 26dB)	0.7µV/75Ω
Quieting Sensitivity	
DPX502/DPX-MP5100U (S/N : 50dB)	15.2dBf (1.6µV/75Ω)
DPX502U/DPX502UY (S/N : 46dB)	1.6µV/75Ω
Frequency response (± 3.0dB)	30Hz~15kHz
Signal to Noise ratio (MONO)	
DPX502/DPX-MP5100U	70dB
DPX502U/DPX502UY.....	65dB
Selectivity (±400kHz).....	≥80dB
Stereo separation	
DPX502/DPX-MP5100U	40dB (1kHz)
DPX502U/DPX502UY.....	35dB (1kHz)

AM tuner section : DPX502/DPX-MP5100U

Frequency range	
DPX502.....	530~1700kHz (10kHz space)
DPX-MP5100U	
.....	531~1611kHz (9kHz space), 530~1700kHz (10kHz space)
Usable sensitivity (S/N=20dB)	28dBµ (25µ)

MW tuner section : DPX502U/DPX502UY

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

LW tuner section : DPX502U/DPX502UY

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

CD player section

Laser diode.....	GaAlAs
Digital filter (D/A)	8 Times Over Sampling
D/A Converter.....	1Bit
Spindle speed.....	1000~400rpm (CLV 2times)
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
WAV signal	Linear-PCM

Audio section

Maximum output power	50W x 4
Full Bandwidth Power (at less than 1% THD)	
DPX502/DPX-MP5100U	22W x 4
Output power (DIN 45324, +B=14.4V)	
DPX502U/DPX502UY.....	30W x 4
Speaker impedance.....	4~8Ω
Tone action	
Bass	100Hz±8dB
Middle	1kHz±8dB
Treble	10kHz±8dB
Preout level/Load (during disc play)	2500mV/10kΩ
Preout impedance	≤600Ω

USB Interface

USB Standard.....	USB 1.1/2.0
File System.....	FAT 16/32
Maximum Supply Current.....	500mA
MP3 decode	Compliant with MPEG-1/2 Audio Layer-3
WMA decode	Compliant with Windows Media Audio
AAC decode	AAC-LC ".m4a" files
WAV signal	Linear-PCM

Auxiliary input

Frequency response (±1dB).....	20Hz~20kHz
Input Maximum Voltage	1200mV
Input Impedance.....	100kΩ

General

Operating voltage	14.4V (11~16V allowable)
Current consumption	10A
Installation Size (W x H x D)	
DPX502.....	182 x 112 x 160mm (7-3/16 x 4-7/16 x 6-5/16 inch)
DPX502U/DPX502UY.....	182 x 112 x 160mm
DPX-MP5100U	178 x 100 x 155mm
Weight	1.60kg (3.53lbs)

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.

