

CD RECEIVER

DPX302 DPX-MP2100

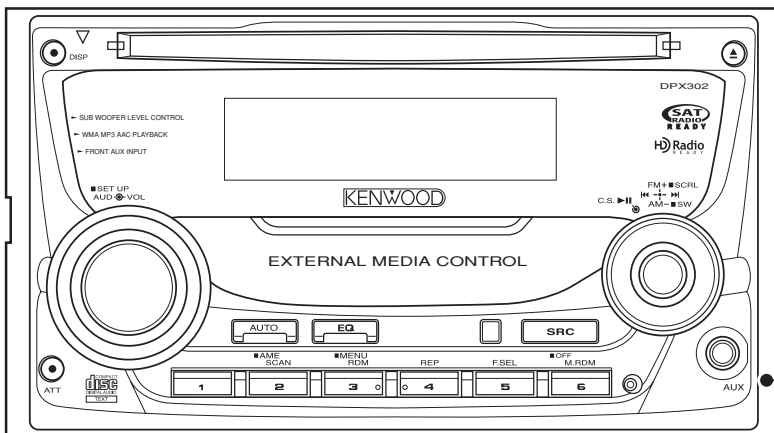
SERVICE MANUAL

KENWOOD

Kenwood Corporation

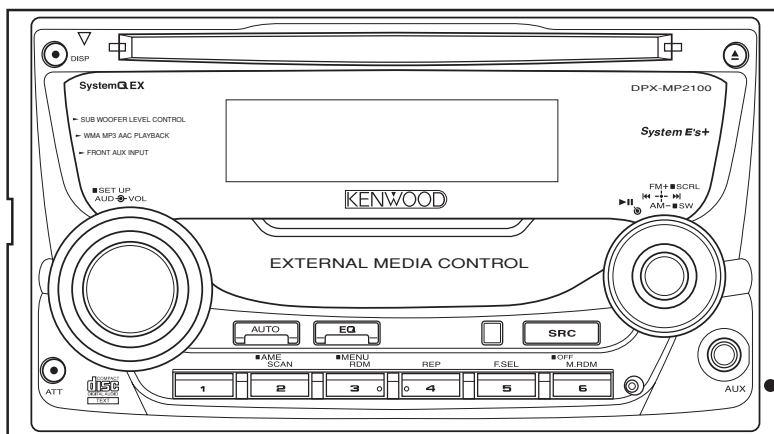
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B53-0505-00 (N) 406

DPX302
(K type)



Panel assy
(A64-4099-02)

DPX-MP2100
(M type)



Panel assy
(A64-4100-02)

DPX-MP2100

Remote controller assy
(A70-2087-05)

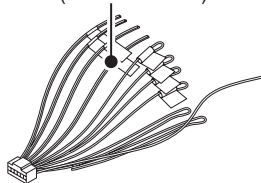


RC-557

SIZE AA BATTERY
(Not supplied)



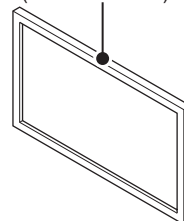
DC cord
DPX-MP2100: (E30-6408-05)
DPX302: (E30-6414-05)



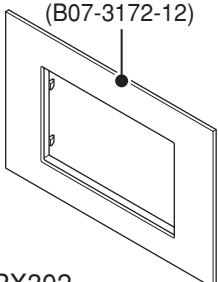
Screw set
(N99-1779-05)



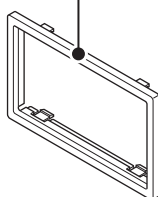
Escutcheon assy
(B07-3046-04)



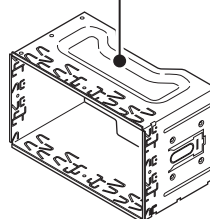
Escutcheon
(B07-3172-12)



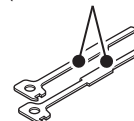
Escutcheon
(B07-3165-02)



Mounting hardware assy
(J22-0429-03)



Lever
(D10-4589-04) x2



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



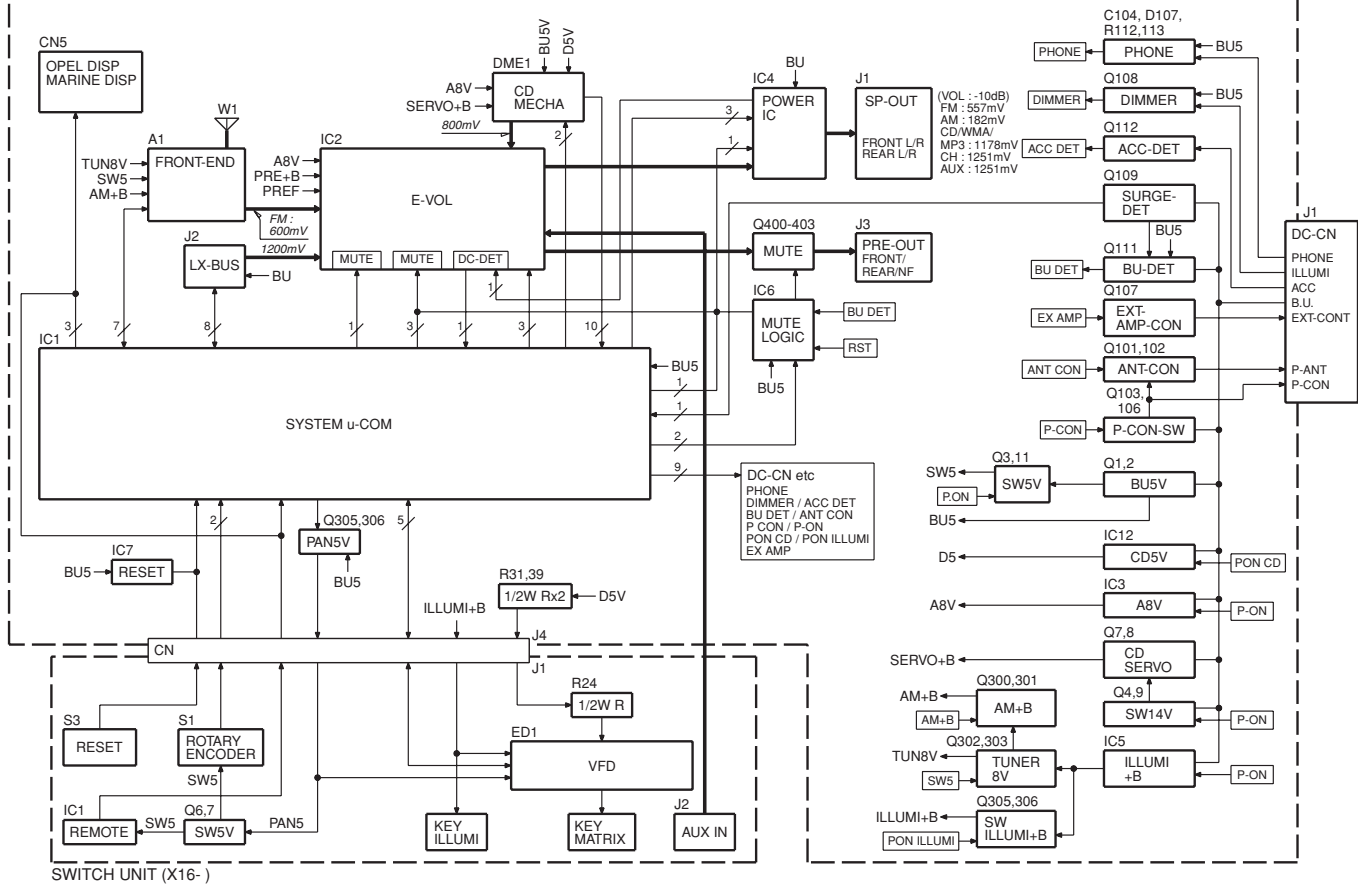
DPX302

This product uses Lead Free solder.



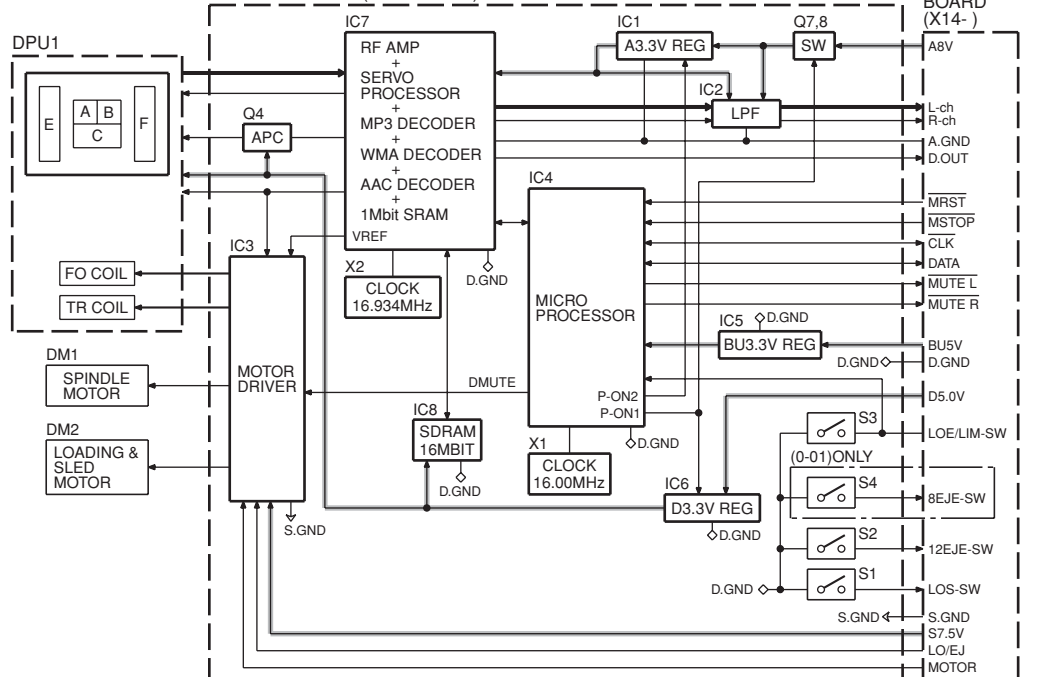
BLOCK DIAGRAM

ELECTRIC UNIT (X34-)



CD PLAYER UNIT (X32-5920-04)

MOTHER BOARD (X14-)



COMPONENTS DESCRIPTION

● SWITCH UNIT (X16-394x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	Remote Control IC	
Q1~3	GRID DRIVER	Each Transister's base is "L" then GRID is On
Q6,7	SW5V	The Power supply of IC1 is turned on when Q6's base level goes "L"
Q9	RED SW	RED LED is turned on when Q9's base level goes "H"
Q12	VFD RESTART	Key scan start at Q12's Base goes "H" when the SET's Power is On

● ELECTRIC UNIT (X34-414x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	System μ -COM	Controls FM/AM tuner, the changer, CD mechanism, Panel, volume and tone
IC2	E. Vol	Controls the source, volume, tone
IC3	A8V Ref Power supply	Output 1.27V
IC4	Power IC	Amplifies the front L/R and the rear L/R to 50W maximum.
IC5	ILL+B Power supply	Output 1.225V
IC6	Muting logic IC	Controls logic for muting
IC7	Reset IC	"L" when detection voltage goes below 3.6V or less
IC12	SW Regulator	Power supply for mp3 and VFD
Q1,2	B.U.5V AVR	While BU is applied, BU5V AVR outputs +5V
Q3,11	SW5V	When Q11's base goes Hi, SW5V outputs +5V
Q4,9	SW14V	When Q9's base goes Hi, SW14V outputs 14V
Q5,6,10	AUDIO8V AVR	When Q10's base goes Hi, A8V AVR outputs 8.0V
Q7,8	SERVO+B AVR	When Q8's base goes Hi, S+B AVR outputs 7.5V
Q12	SW for IC12	When Q12's base goes Lo, IC7 is turned on
Q13	PANEL 5V	When Q13's base goes Lo, PANEL5V outputs 5V
Q101,102	P-ANT SW	When Q102's base goes Hi, P-ANT SW outputs 14V
Q103,106	P-CON SW	When Q106's base goes Hi, AVR outputs 14V
Q104,105	P-CON Protection	Protect Q103 by turning on when P-CON output is grounded
Q107	EXT-AMP-CON	When Q107's base goes Lo, Q107 is turned on
Q108	Small lamp det SW	When Q108's base goes Hi, Q108 is turned on
Q109	SERGE Det.	When Q109's base goes Hi, IC4 is changed into a standby state
Q111	BU det	When Q111's base goes Hi, Q111 is turned on
Q112	ACC det	When Q112's base goes Hi, Q112 is turned on
Q113	Mute-Driver	When a base goes Hi, Pre-out mute driver is turned on
Q114	Mute-Driver	Q114 turned on by RST
Q115,116	Pre-out mute driver	When a base goes Lo, mute driver is turned on
Q298,299	Tuner8V SW	When Q299's base goes Hi, Tuner8V output 8V
Q300,301	AM+B	When Q301's base goes Hi, AM+B is out
Q302,303	Tuner8V	When Q303's base goes Hi, Tuner8V outputs 8V
Q305,306	SW ILL+B	When Q306's base goes Hi, SW ILL+B outputs 11V
Q400~403	Pre-out mute SW	When a base goes Hi, Pre-out is muted

DPX302,DPX-MP2100

COMPONENTS DESCRIPTION

● CD PLAYER UNIT (X32-5920-04)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	A3.3V regulator	Power supply for audio 3.3V
IC2	Low pass filter	
IC3	4ch BTL driver	Driving spindle motor and loading/ejection operation
IC4	Mechanism μ -com	
IC5	BU3.3V regulator	Power supply for backup 3.3V
IC6	D3.3V regulator	Digital 3.3V Power supply
IC7	Audio DAC built-in servo DSP	MP3, WMA, and AAC compatible
IC11	Buffer IC	Level shift
Q1	A3.3V discharge circuit	
Q4	APC (Auto power control)	Adjusts current to be sent to laser
Q5,6	SW 5V	
Q7,8	SW 8V	
D1	APC (Auto power control)	Protects the pick-up laser diode

MICROCOMPUTER'S TERMINAL DESCRIPTION

● SYSTEM μ -COM (X34: IC1)

Pin No.	Pin Name	Module	I/O	Application	Truth value table	Processing Operation Description
1	REMO	EXTRA	I	Remote control signal input		Detect pulse width
2	LX MUTE	LX M	I	MUTE request from slave unit		H: Mute ON, L: Mute OFF
3	AUD SDA	AUDIO	O	E-VOL data output terminal		
4	AUD SEL	AUDIO	O	E-VOL control terminal		
5	AUD SCL	AUDIO	O	E-VOL clock output terminal		
6	BYTE	μ COM	-			
7	CNVSS	μ COM	-			
8	XCIN	μ COM	I			
9	XCOU	μ COM	I			
10	RESET	μ COM	-			
11	XOUT	μ COM	-			
12	VSS	μ COM	-			
13	XIN	μ COM	-	12.0MHz		
14	VCC1	μ COM	-			

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module	I/O	Application	Truth value table	Processing Operation Description
15	NMI	μCOM	I	Not used		
16	NC		O	Not used		Fixed to L
17	NC		O	Not used		Output L fixed
18	LX REQ S	LX M	I	Communication request from slave unit		
19	PON AM	Power supply	I/O	AM power supply control		H: When AM, Hi-z: When not AM
20	LX REQ M	LX M	O	Communication request to the slave unit		
21	TUN IFC OUT	TUNER	I	F/E IFC OUT input terminal		H: Station found, L: Station not found
22	NC		O	Not used		Output L fixed
23	NC		O	Not used (except RDS and RBDS models)		Output L fixed
24,25	NC		O	Not used (except RDS model)		Output L fixed
26	PWIC BEEP	PWIC	O	Beep output		
27	TUN SCL	TUNER	I/O	F/E I2C clock input/output terminal		
28	TUN SDA	TUNER	I/O	F/E I2C data input/output terminal		
29	VFD DATA	to PANEL	I/O	VFD data input/output terminal		Data input/output
30	VFD INT	to PANEL	I	VFDINT input terminal		INT input terminal
31	VFD CLK	to PANEL	O	VFD clock output terminal		Normal: 125kHz Low consumption mode: 62.5kHz
32	VFD RST	to PANEL	O	VFD driver reset terminal		H: Clear RESET, L: RESET L: Momentary power down, when panel detached and 11 minutes after ACC OFF
33	IC SDA	CD	I/O	CD mechanism I2C data input/output terminal		
34	IC SCL	CD	I/O	CD mechanism I2C clock output terminal		
35	PON PANEL	Power supply	I/O	Panel 5V control terminal		L: ON, Hi-Z: Momentary power down, when panel detached and 11 minutes after ACC OFF
36~38	NC		O	Not used		Output L fixed
39	EPM	μCOM	I	FLASH EPM input terminal		
40,41	NC		O	Not used		Output L fixed
42	ROMCOR DET	EXTRA	I	E2PROM writing-in request		H: Writing-in
43	NC		O	Not used (no USB model)		Output L fixed
44	VFD CS	to PANEL	O	VFD chip select control terminal		
45	ROTARY CW	to PANEL	I	VOL key input		Detect pulse width
46	ROTARY CCW	to PANEL	I	VOL key input		Detect pulse width
47	CD DISC12 SW	CD	I	CD disc detection terminal (12cm)		
48	CD LOS SW	CD	I	CD loading detection terminal		
49	CD MUTE R	CD	I	CD MUTE (Rch) request terminal		H: Normal, L: Rch mute request (valid only when in CD mode)
50	CD MUTE L	CD	I	CD MUTE (Lch) request terminal		H: Normal, L: Lch mute request (valid only when in CD mode)
51	CD MRST	CD	O	CD mechanism μ-com RST terminal		H: Normal, L: RESET

DPX302,DPX-MP2100

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module	I/O	Application	Truth value table	Processing Operation Description
52	$\overline{\text{CD MSTOP}}$	CD	O	CD mechanism μ -com stop terminal		H: Mechanism μ -com in operation L: Mechanism μ -com stop
53	$\overline{\text{CD DISC8 SW}}$	CD	I	CD disc detection terminal (8cm)		
54	CD LOE LIM SW	CD	I	CD detection terminal (chucking SW)		H: Loading completed, L: No disc
55	CD LOEJ	CD	I/O	CD motor control terminal	①	Refer to the truth value table
56	CD MOTOR	CD	O	CD motor control terminal	①	Refer to the truth value table
57	PON ILLUMI	Power supply	I/O	Key illumi power supply control		ON: H, OFF: Hi-Z
58	PON CD	Power supply	O	Power supply control terminal for CD WMA		L: POWER ON, H: POWER OFF H: When resetting before M-STOP
59	PON	Power supply	O	Power supply control		POWER ON: H, POWER OFF: L
60	VCC2	μ COM	-			
61	EXT AMP CON	EXTRA	I/O	EXTERNAL AMP control		
62	VSS	μ COM	-			
63	TYPE 1	TYPE	I	Destination switching	④	Refer to the truth value table
64	TYPE 2	TYPE	I	Destination switching	④	Refer to the truth value table
65	TYPE 3	TYPE	I	Destination switching	④	Refer to the truth value table
66	TUN TYPE1	TYPE	I	Destination setting 1	③	Refer to the truth value table
67	TUN TYPE2	TYPE	I	Destination setting 2	③	Refer to the truth value table
68	OEM DISP DATA	EXTRA	I/O	External display DATA		External display
69	OEM DISP CLK	EXTRA	I/O	External display CLK		External display
70	OEM DISP CE	EXTRA	I/O	External display control request		External display
71	NC		O	Not used		Output L fixed
72	P CON	Power supply	O	External amplifier control terminal		H: POWER ON, L: POWER OFF L: STANDBY source
73	VFD KEY REQ	toPANEL	I	Communication request from VFD driver		Connect to INT
74	ANT CON	EXTRA	O	Power antenna control		TUNER ON: H
75	$\overline{\text{ILLUMI DET}}$	EXTRA	I	Dimmer illumi detection		L: ON, H: OFF
76	$\overline{\text{BU DET}}$	EXTRA	I	Momentary power down detection		L: BU found H: BU not found, momentary power down
77	$\overline{\text{ACC DET}}$	EXTRA	I	ACC power supply detection		L: ACC ON, H: ACC OFF
78	(PWIC SVR)	PWIC	O	SVR discharging circuit		H: For 5 seconds after POWER OFF momentary power down, L: Thereafter
79	$\overline{\text{PWIC MUTE}}$	PWIC	O	Power IC MUTE terminal		L: When in STANDBY source, at momentary power down, L: While TEL MUTE
80	PWIC STBY	PWIC	O	Power IC standby control		POWER ON: H, POWER OFF: L
81	LX CON	LX M	O	Start-up request to slave unit		H: Slave unit ON, L: Slave unit OFF
82	MUTE PRE R	AUDIO	O	PRE OUT MUTE Rch		H: When CD MUTE R is L (while playing CD) H: When momentary power down, Fixed to L: Only when 2 zone or NAVI interruption

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module	I/O	Application	Truth value table	Processing Operation Description
83	MUTE PRE L	AUDIO	O	PRE OUT MUTE Lch		H: When CD MUTE L is L (while playing CD) H: When momentary power down, Fixed to L: Only when 2 zone or NAVI interruption
84	MUTE 0	AUDIO	I/O	E-VOL FRONT MUTE terminal		L: MUTE ON, Hi-Z: MUTE OFF
85	MUTE 1	AUDIO	I/O	E-VOL REAR MUTE terminal		L: MUTE ON, Hi-Z: MUTE OFF
86	MUTE 2	AUDIO	I/O	E-VOL OTHER MUTE terminal		L: MUTE ON, Hi-Z: MUTE OFF
87	LINE MUTE	EXTRA	I	Line mute detection		TEL MUTE: 1V or lower, NAVI MUTE: 2.5V or higher, In J-TYPE, NAVI MUTE: 1V or less, or 2.5V or higher
88	NC		O	Not used (MMC)		Output L fixed
89	PWIC DC DET	PWIC	I	DC offset detection terminal		
90	LX RST	LX M	O	Hardware-reset to slave unit		H: Reset, L: Normal
91	MUTE C	AUDIO	I/O	E-VOL MUTE terminal (for AFS)		L: MUTE ON, Hi-Z: MUTE OFF
92	NC		O	Not used		Output L fixed
93	RDS NOISE	TUNER	I	FM noise detection terminal		
94	AVSS	μCOM	-			
95	TUN SMETER	TUNER	I	S meter input		
96	VREF	μCOM	-			Connect to P ON
97	AVCC	μCOM	-			Connect to VCC
98	LX DATA S	LX M	I	Data from slave unit		
99	LX DATA M	LX M	I/O	Data to slave unit		
100	LX CLK	LX M	I/O	LX-BUS clock		

Truth value table

① CD MOTOR, CD LOEJ

	CD MOTOR	CD LOEJ
Stop	L	L
Load	H	L
Eject	H	H
Brake	H	Hi-z

③ TUNER TYPE

	TUN TYPE1 (66PIN)	TUN TYPE2 (67PIN)
Kenwood brand model	L	L
OEM model 1	L	H
OEM model 2	H	L
OEM model 3	H	H

④ 07 2-DIN

TYPE3	TYPE2	TYPE1	Destination	X34-414
1	1	0	DPX302	0-11
1	1	1	DPX-MP2100	0-22

DPX302,DPX-MP2100

MICROCOMPUTER'S TERMINAL DESCRIPTION

● CD MECHANISM μ -COM (X32: IC4)

Pin No.	Pin Name	I/O	Application	Processing Operation Description
1	NC	-	Not used	Low-fixed
2	E2P SCL	I/O	ROM correction E2P I2C clock	
3~5	NC	-	Not used	Low-fixed
6	VDD	-	5V electric potential	
7	GND	-	GND electric potential	
8,9	NC	-	Not used	Low-fixed
10,11	PON1, PON2	O	Power ON/OFF control	H : ON, L : OFF
12	LOE/LIM SW	I	Down-limit SW detection	L : Inner circumference detection
13	DAC MUTE	O	DAC MUTE control	L : MUTE OFF
14	DAC RST	O	DAC RESET	L : RESET
15	EMPH	O	External DAC Emphasis control	L : Emphasis OFF
16,17	NC	-	Not used	Low-fixed
18	IC/Vpp	-	Write voltage (FLASH)	H : In writing
19	$\overline{\text{MUTE L}}$	O	Lch audio MUTE control	L : MUTE ON, H : MUTE OFF
20	$\overline{\text{MUTE R}}$	O	Rch audio MUTE control	L : MUTE ON, H : MUTE OFF
21	TYPE	I	DAC switching	L : DSP built-in DAC Not used
22	TEST O 1	O	TEST MODE O 1	(Not used)
23	TEST O 2	O	TEST MODE O 2	(Not used)
24	TEST O 3	O	TEST MODE O 3	(Not used)
25	TEST O 4	O	TEST MODE O 4	(Not used)
26	NC	-	Not used	Low-fixed
27	$\overline{\text{WAIT}}$	I	Wait control signal detection	
28~30	NC	-	Not used	Low-fixed
31	$\overline{\text{RESET}}$	I	Reset detection	H : NORMAL, L : RESET
32	XT1	I	Not used	
33	XT2	-	Not used	
34	REGC	-		
35	X2	-		
36	X1	I		
37	Vss	-	GND electric potential	
38	VDD	-	5V electric potential	
39	NC	-	NC	
40	$\overline{\text{WRL}}$	I	Multiplex WRITE signal	
41,42	NC	-	Not used	Low-fixed
43	$\overline{\text{RD}}$	O	Multiplex RD signal	
44	ASTB	O	Multiplex ASTB signal	

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Processing Operation Description
45	NC	-	Not used	Low-fixed
46	NC	-	Not used	Low-fixed
47~54	AD0~AD7	I/O	Multiplex address/data	
55	BVdd	-	BUS interface power supply	
56	BVss	-	BUS interface GND	
57~61	AB8~AB12	I/O	Multiplex data/address	
62~65	NC	-	Not used	Low-fixed
66	\overline{CS}	O	Chip select control	H : OFF, L : ON
67	$\overline{DSP\ RESET}$	O	DSP reset control	H : NORMAL, L : RESET
68~70	NC	-	Not used	Low-fixed
71	Avdd	-		
72	Avss	-		
73	Avref	I	A/D port reference voltage input	
74	RAMSEL2	I	With DRAM/No DRAM switching for different models	H : With DRAM, L : No DRAM
75	RAMSEL	I	With DRAM/No DRAM switching for different models	H : With DRAM, L : No DRAM
76	RZM	I	0bit MUTE detection	H : $\geq 1.7V$, L : $< 1.7V$
77	LZM	I	0bit MUTE detection	H : $\geq 1.7V$, L : $< 1.7V$
78	AAC	I	AAC compatibility switching	H : AAC non-compatible, L : AAC compatible
79	ASEL	I	Audio output polarity switching	H : Reverse output, L : Non-reverse output
80	E2P WR	I	E2PROM write switching	H : E2PROM WRITE, L : NORMAL
81	TEST I 0	I	TEST MODE I 0	(Not used)
82	TEST I 1	I	TEST MODE I 1	(Not used)
83	TEST I 2	I	TEST MODE I 2	(Not used)
84	TEST I 3	I	TEST MODE I 3	(Not used)
85,86	NC	-	Not used	Low-fixed
87	\overline{MSTOP}	I	Standby restart interruption	H : STOP release, L : STOP
88	INTSV	I	Interruption from servo IC	H : Interruption
89~92	NC	-	Not used	Low-fixed
93	$\overline{D-MUTE}$	O	Driver MUTE	H : OFF, L : ON
94	SYS SDA	I/O	System μ -com I2C data	
95	NC	-	Not used	Low-fixed
96	SYS SCL	I/O	System μ -com I2C clock	
97~99	NC	-	Not used	Low-fixed
100	E2P SDA	I/O	ROM correction E2P I2C data	

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.

● Test mode default condition

- Source is STANDBY.
- Display lights are all turned on.
- The volume is at -10dB (The display is 30).
- LOUD is OFF.
- CRSC is off regardless of the availability of switching function.
- SYSTEM Q is NATURAL (=FLAT).
- BEEP is always activated by briefly pressing a button.
- AUX is ON.

● Special display in tuner mode

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

“TNE2P_NG”: Front-end E2PROM values are still default (not determined).

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

● 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

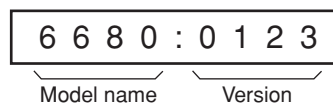
Forced MIDDLE: FM1_98.1M

Forced NARROW: FM1_98.1N

● CD receiver 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 an MP3/WMA/AAC disc with 8 files or less, the disc is played from the 1st track in the normal order.
- Pressing the [◀◀] key goes back by 1 track from the track being played.

- When playing an MP3/WMA/AAC disc, display the file format before starting to play each file. (“MP3”, “WMA”, “AAC”)
- When CD is the source, press the [1] key briefly to jump to No. 28.
- When CD is the source, press the [2] key briefly to jump to No. 14.
- When CD is the source, press the [3] key briefly to display CD mechanism model name and the version. Press the [3] key briefly again to go back to the normal screen. (time code display)



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

● AUDIO adjust mode

- Press [AUD] key briefly to enter the audio adjustment mode.
- Press the remote control [*] key and [AUD] key to go into the audio adjustment mode.
- Both AUDIO FUNCTION MODE and SETUP MODE adjustment items are included.
- By pressing [AUD] or [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)
- 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)

TEST MODE

- Sub Woofer Phase is adjusted by the VOL knob and [◀◀] / [▶▶] keys in 2 steps: Reverse ↔ Normal. (Default value: Normal)
- Volume Offset (except built-in AUX) is adjusted by the VOL knob and [◀◀] / [▶▶] keys in 2 steps: -8 ↔ 0. (Default value: 0)
- Volume Offset (built-in 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)
- Bass f / Bass Q / Bass EXT / Middle f / Middle Q / Treble f are not displayed in the audio adjustment mode.

● MENU

- Press [EQ] key briefly to enter the MENU.
- Press the remote control [DNPP/SBF] key or the [DIRECT] key to enter the MENU.
- Continuous forwarding by remote control is prohibited.

● 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	Version is displayed (forwarding) (Display) TYPE : x__ → ("x" is displayed in hexadecimals) 631K-1.02 → ("development ID" – "version") all lights on → * TYPE indicates μ-com destination, and shows real-time condition of the destination terminal.
[2] key	Serial No. is displayed (8 digits) (Display) xxxxxxxx
[3] key	Key pressed briefly: Power ON time is displayed. While Power ON time is displayed, press and hold for 2 seconds to clear the Power ON time. (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 is displayed. While CD operation time is displayed, press and hold for 2 seconds to clear the CD operation time. (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)
[5] key	Key pressed briefly: Number of CD EJECT time is displayed. While the CD EJECT times is displayed, press and hold for 2 seconds to clear the CD EJECT time. (Display) EJCxxxxx MAX 65535 (times)
[6] key	Not used.
[FM] key	ROM correction version is displayed. (Display) R1234__ When E2PROM is not installed: ERR_____ When not written in: R----_ When data not matching: R***_
[▶▶] key	AUDIO data initialization (Display) AUD_INIT
[◀◀] key	Key pressed briefly: Forced Power OFF data displayed. While the forced power OFF data is displayed, press and hold for 2 seconds to clear the data. (Display) POFF_--- (No Forced Power OFF) ← Fixed display
[▶] key	Key pressed briefly: CD information display mode ON/OFF. While in CD information display mode, press and hold for 2 seconds to clear all CD information. * Please refer to the next table.

● CD information display mode

[AM] key ↑	I2C communication condition display (Display) I2C_OK__ NG
	CD mechanism error log display (switched by [◀◀] / [▶▶] keys) (Display) MCERR1: xx ↔ MCERR2: xx ↔ MCERR3: xx ↔ MCERR1: xx ↔ ("—" or the error code is displayed for "xx")
	CD loading error log display (switched by [◀◀] / [▶▶] keys) (Display) LDERR1: xx ↔ LDERR2: xx ↔ LDERR1: xx ↔ (Number of times is displayed for "xx") MAX 99 (times)

TEST MODE

↓ [FM] key	<p>CD ejection error log display (switched by [◀] / [▶] keys) (Display) EJERR1: xx ↔ EJERR2: xx ↔ EJERR3: xx ↔ EJERR4: xx ↔ EJERR1: xx ↔ (Number of times is displayed for "xx") MAX 99 (times)</p>
	<p>CD time code error count data display (missing counts) (switched by [◀] / [▶] keys) (Display) CNT_LOSE ↔ CDDA_: xx ↔ CDROM_: xx ↔ CNT_LOSE ↔ (Number of times is displayed for "xx") MAX 99 (times)</p>
	<p>CD time code error count data display (count not updated) (switched by [◀] / [▶] keys) (Display) CNT_STAY ↔ CDDA_: xx ↔ CDROM_: xx ↔ CNT_STAY ↔ (Number of times is displayed for "xx") MAX 99 (times)</p>

● Initializing AUDIO-related setting value

Press the [▶] key in the STANDBY source and reset the AUDIO setting value to the test mode default value.

● Other

- When Power ON, do not display "CODE_OFF" and "CODE_ON".
- When the source is STANDBY, press and hold [AUTO] key for 1 second to switch PREOUT Rear and Sub Woofer. (2PREOUT model)
- When started in Test Mode, duration of prohibiting LINE MUTE shall be changed from 10 seconds to 1 second.
- While in Test Mode, serial number is not written with a serial-number-writing jig.
- When in Test Mode, when DC offset error detection is run, the detection information is not written into the E2PROM.
- DEMO mode shall not be operated while in Test Mode, CD Mechanism Error Log Data Clearing Mode, or DC Offset Error Detection Data Clearing Mode.
Also, do not display DEMO ON/OFF option items in the MENU in STANDBY source in the above modes.

● Clearing CD mechanism information and service information (Clearing E2PROM (F/E) data)

1. While pressing the [EQ] key and [ATT] key, reset-start to start CD mechanism and service 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 forced Power OFF data

2. After the initialization process is completed, the following is displayed.
When successfully completed: "CD_O____"
When finished but unsuccessful: "CD_X____"
3. This mode is cancelled by resetting. (The last screen will not be retained.)

● Clearing DC error detection data (E2PROM (F/E) 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 DC offset error condition is displayed.
When detected: "DC_ERR__"
When not detected: "DC_OK__"
3. While error condition is being displayed, press [AUTO] key briefly to clear the detection data. (clear E2PROM)
4. DC error display mode is cancelled by resetting. (The last screen will not be retained.)

● Frequency span switching (K/M type)

While pressing and holding [1] and [5] keys, press [SRC] key simultaneously to power ON.

● Security

- Forced Power-ON mode (all models)
Even when security is permitted, by pressing and holding [EQ] and [4] keys and pressing RESET simultaneously, Power can be ON for 30 minutes. After 30 minutes, recovered only by reset.

TEST MODE

- Simplified security code clearing procedure (simplified security model)
 1. While code is requested, press and hold [AUTO] key and press [▶▶] key for 3 seconds. (“— — —” disappears.)
 2. Enter “KCAR” by remote control.
 - Press the remote control [5] key 2 times, display “K”, and press the [▶▶] key.
 - Press the remote control [2] key 3 times, display “C”, and press the [▶▶] key.

- Press the remote control [2] key once, display “A”, and press the [▶▶] key.
- Press the remote control [7] key 2 times, display “R”, and press the [▶▶] key.
- 3. Security is cleared and the source is set to STANDBY.
- 4. If a wrong code is entered, code request mode is displayed.

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

1. 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).
2. 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.

3. Key specification

- After DC offset error is detected, only [EJECT] key and [POWER] key function.

4. 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).

● Note while in test mode

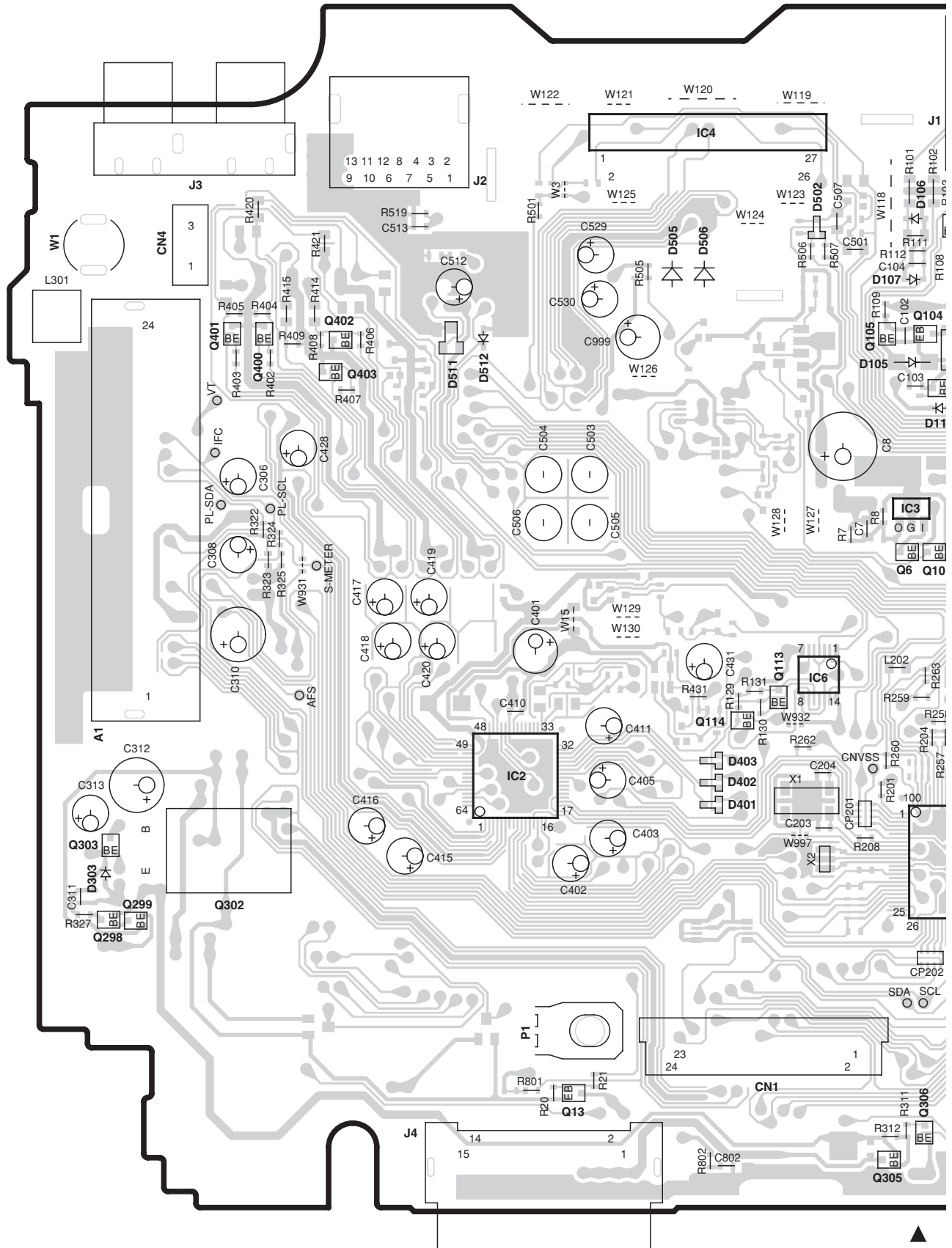
- While in test mode, even if DC leak is detected, it is not written into E2PROM. When an error is detected, the display is enabled.

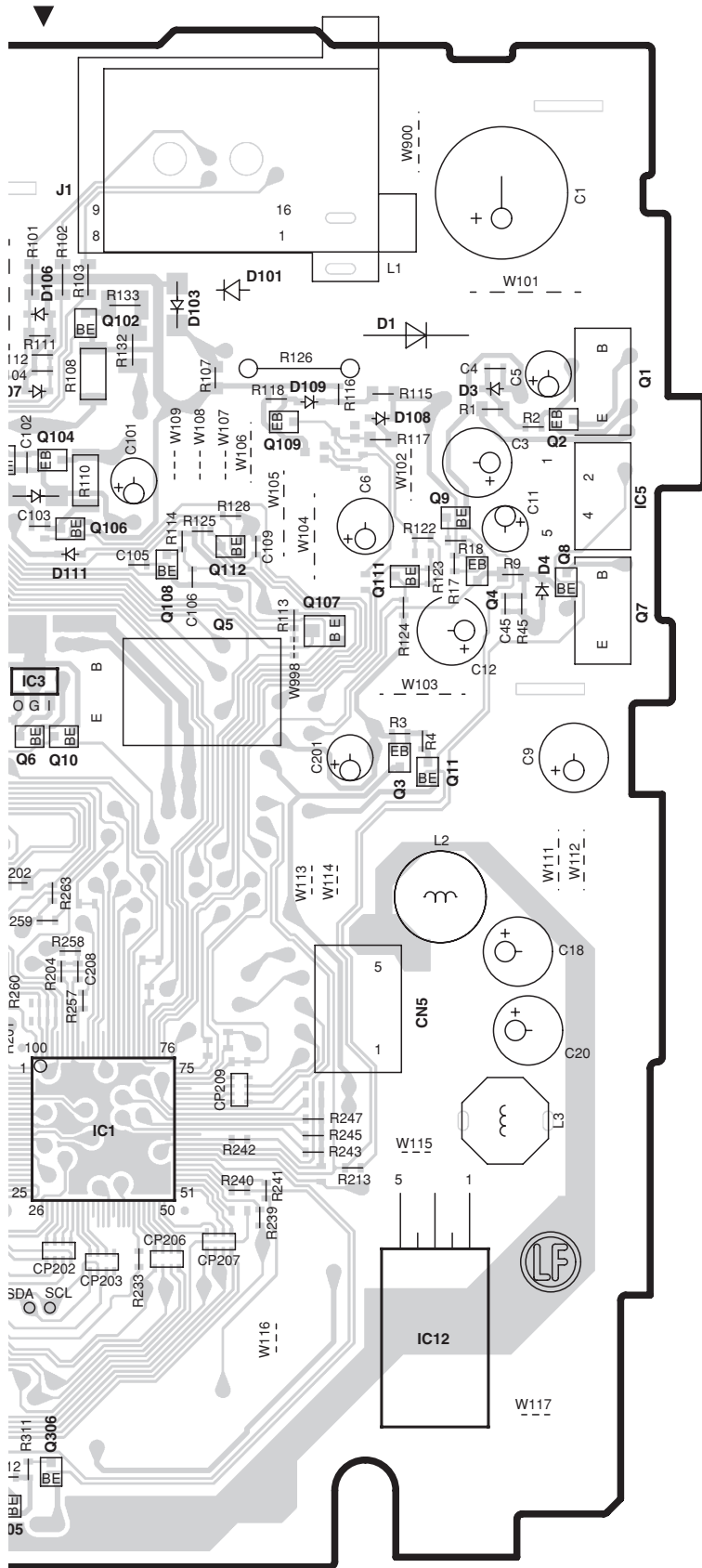
● Other

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

PC BOARD (COMPONENT SIDE VIEW)

ELECTRIC UNIT
X34-414x-xx (J76-0173-22)





X34-414x-xx

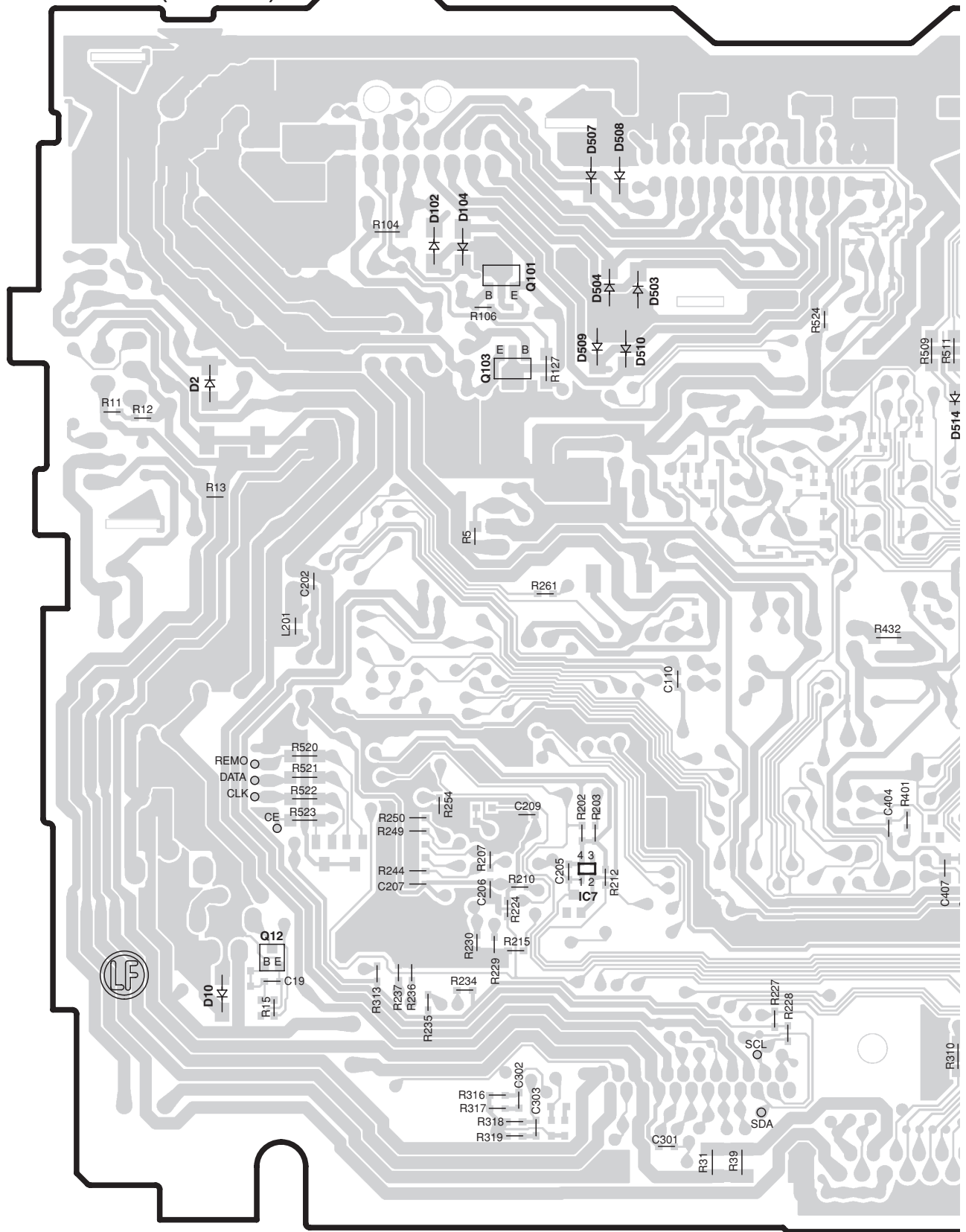
Ref. No.	Address
IC1	5F
IC2	5D
IC3	4E
IC4	2D
IC5	3H
IC6	5E
IC12	6G
Q1	3H
Q2	3H
Q3	4G
Q4	3G
Q5	4F
Q6	4E
Q7	3H
Q8	3H
Q9	3G
Q10	4F
Q11	4G
Q13	6D
Q102	2F
Q104	3F
Q105	3E
Q106	3F
Q107	3G
Q108	3F
Q109	3G
Q111	3G
Q112	3F
Q113	5E
Q114	5D
Q298	6B
Q299	6B
Q302	6B
Q303	5B
Q305	7E
Q306	6F
Q400	3B
Q401	3B
Q402	3C
Q403	3C

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

DPX302,DPX-MP2100

PC BOARD (FOIL SIDE VIEW)

ELECTRIC UNIT
X34-414x-xx (J76-0173-22)



2

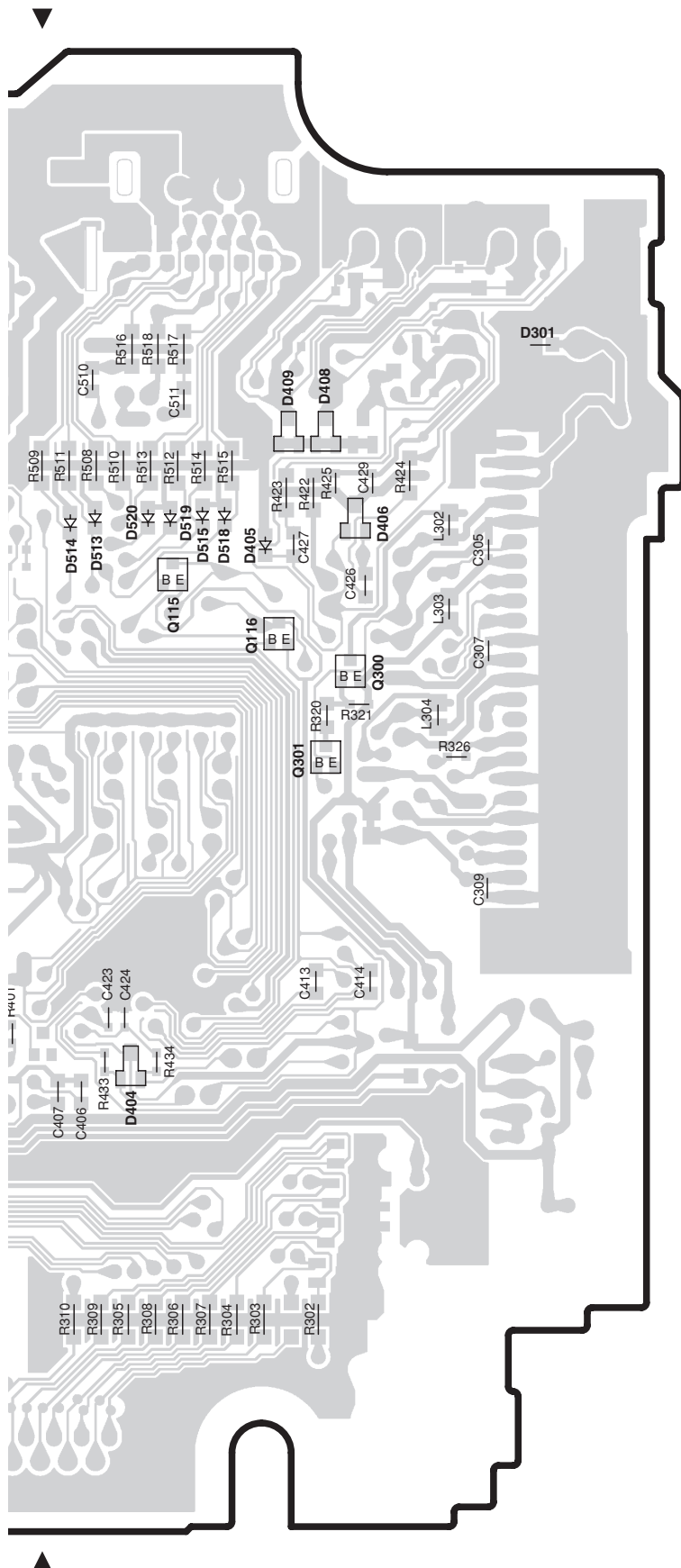
3

4

5

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7



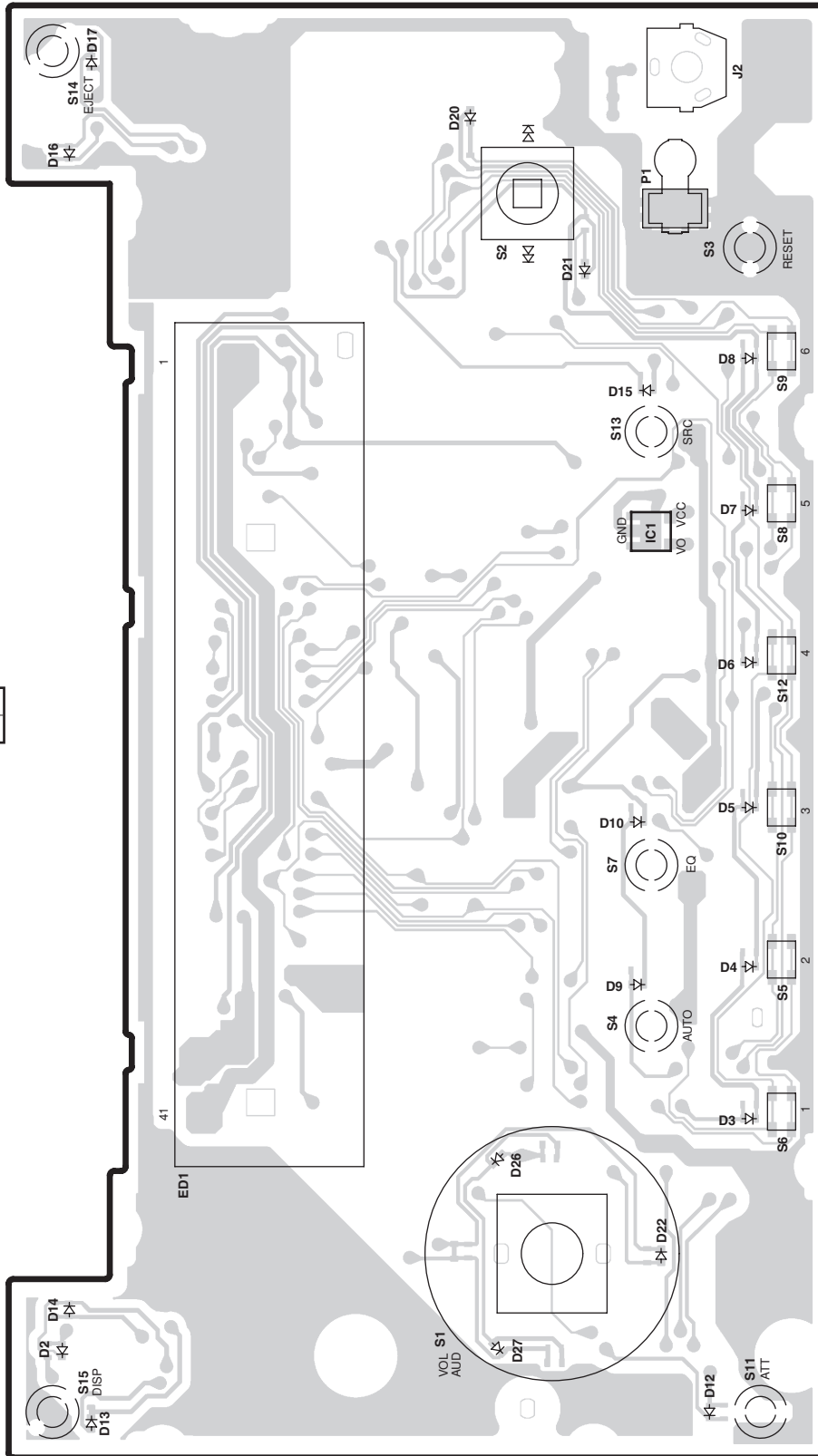
X34-414x-xx

Ref. No.	Address
IC7	5N
Q12	6L
Q101	3N
Q103	3M
Q115	4P
Q116	4P
Q300	4Q
Q301	4Q

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

PC BOARD (COMPONENT SIDE VIEW)

SWITCH UNIT X16-394x-xx (J76-0386-02)



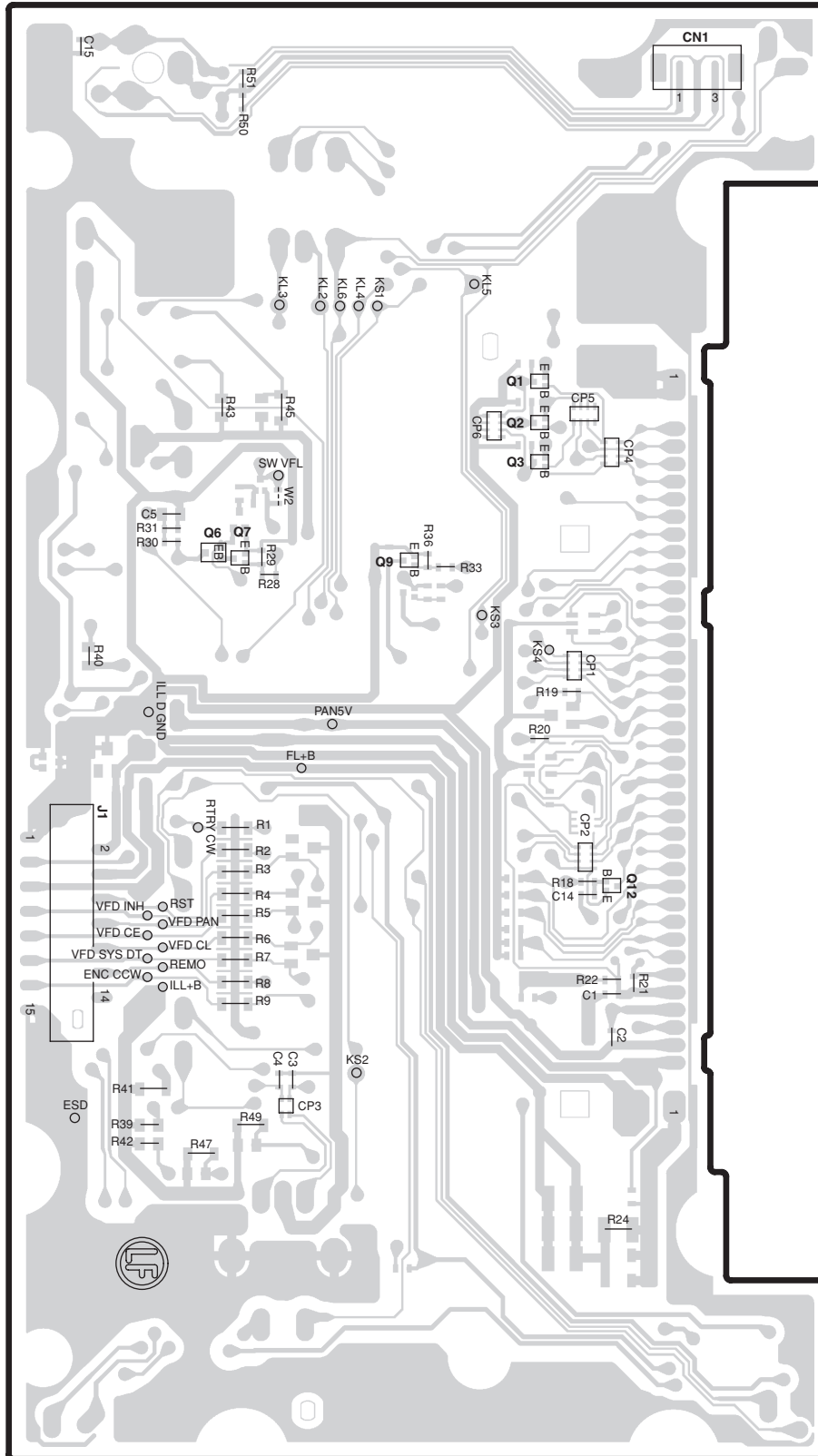
X16-394x-xx

Ref. No.	Address
IC1	3X

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

PC BOARD (FOIL SIDE VIEW)

SWITCH UNIT X16-394x-xx (J76-0386-02)



X16-394x-xx

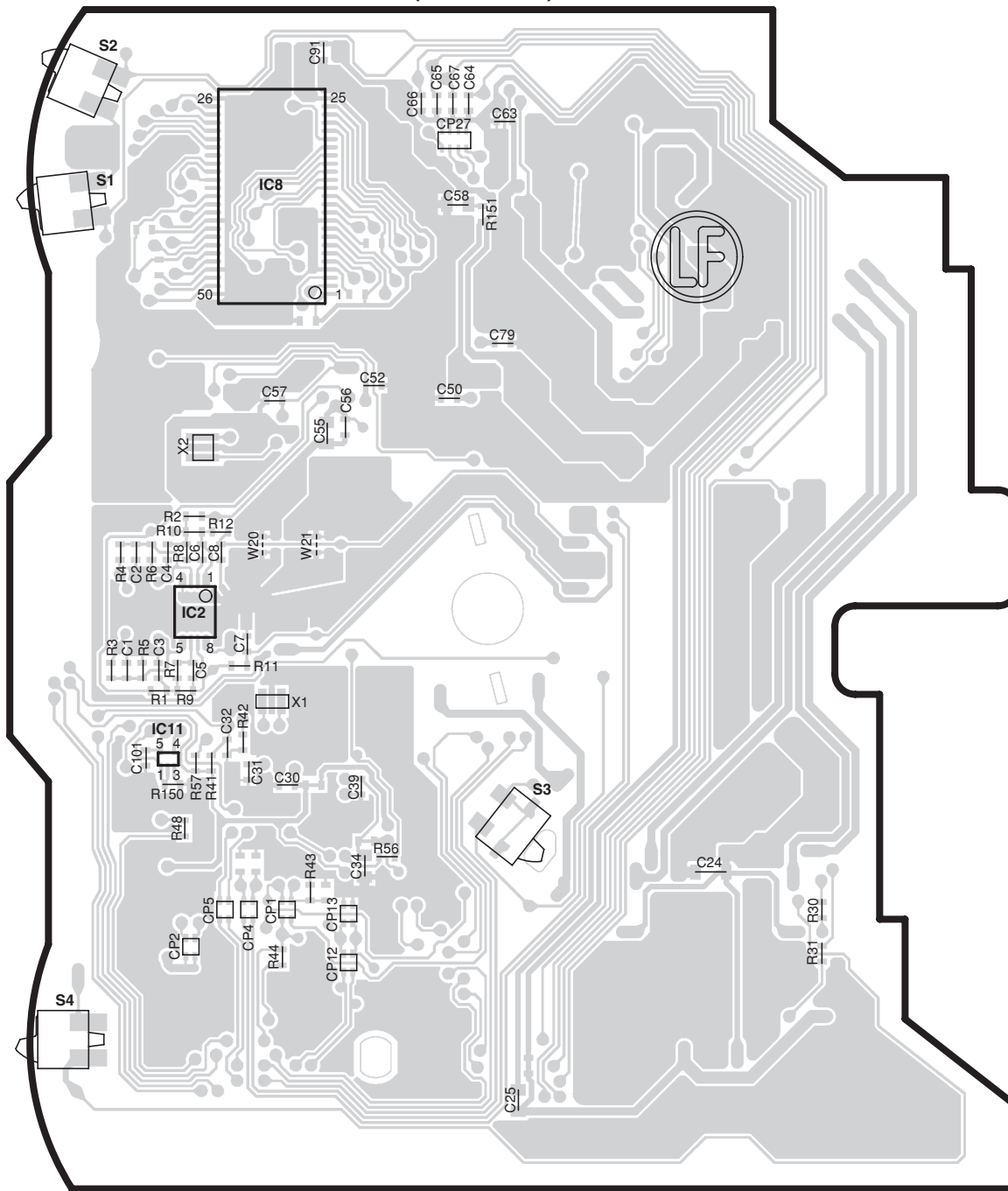
Ref. No.	Address
Q1	3AB
Q2	3AB
Q3	3AB
Q6	3AA
Q7	3AA
Q9	3AA
Q12	5AB

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

DPX302,DPX-MP2100

PC BOARD (COMPONENT SIDE VIEW)

CD PLAYER UNIT X32-5920-04 (J76-0231-22)



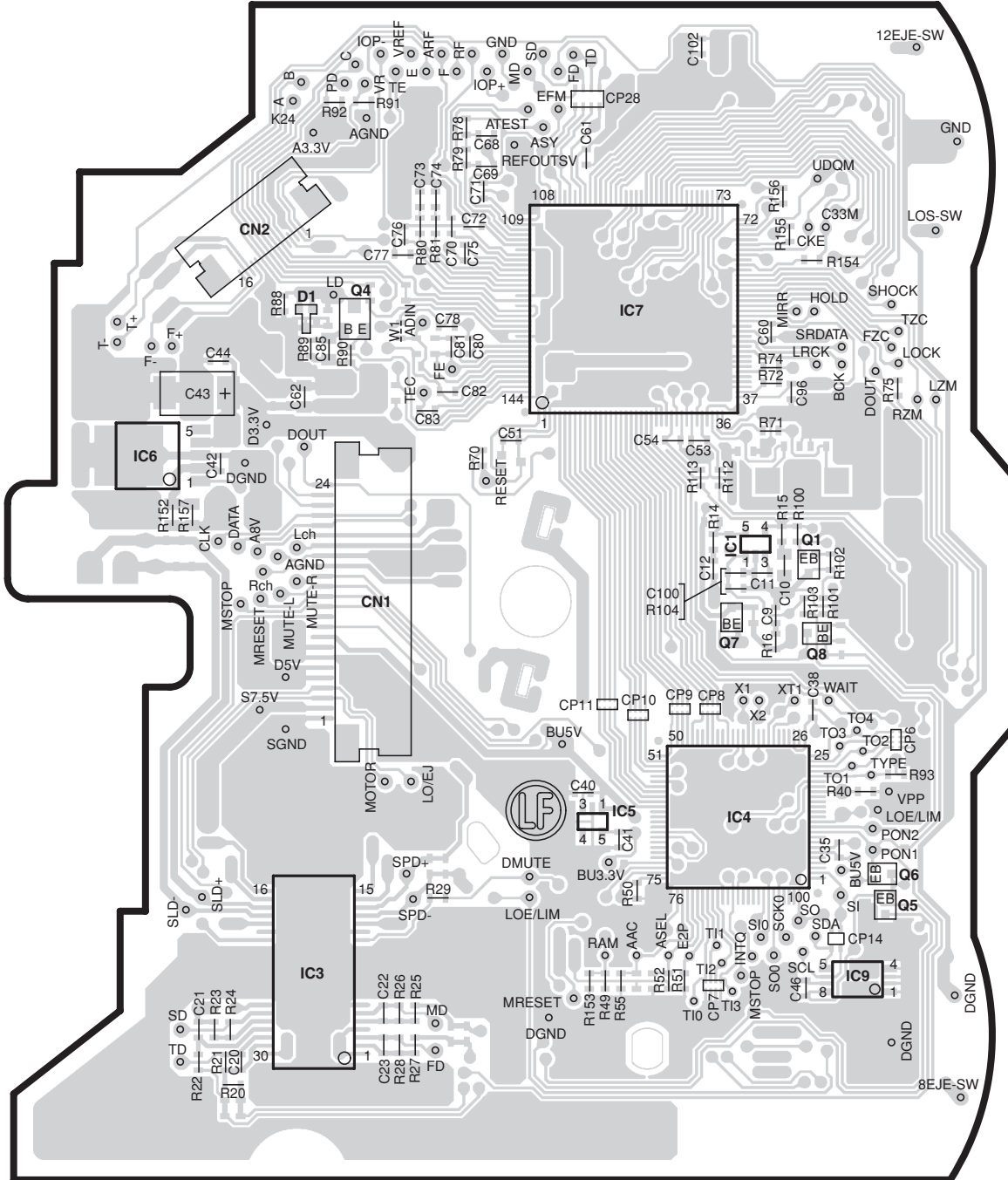
X32-5920-04

Ref. No.	Address
IC2	4AF
IC11	4AF

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

PC BOARD (FOIL SIDE VIEW)

CD PLAYER UNIT X32-5920-04 (J76-0231-22)

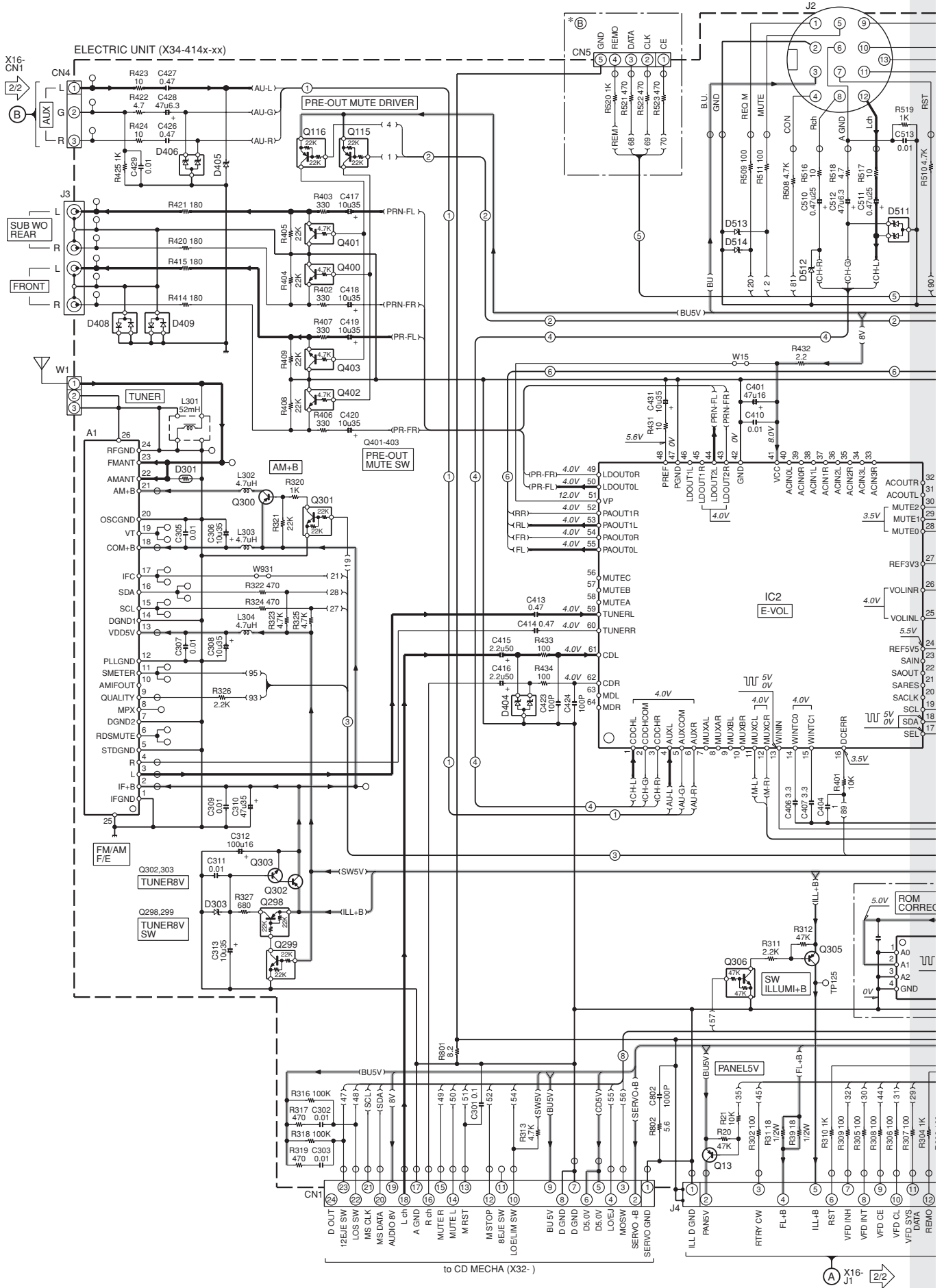


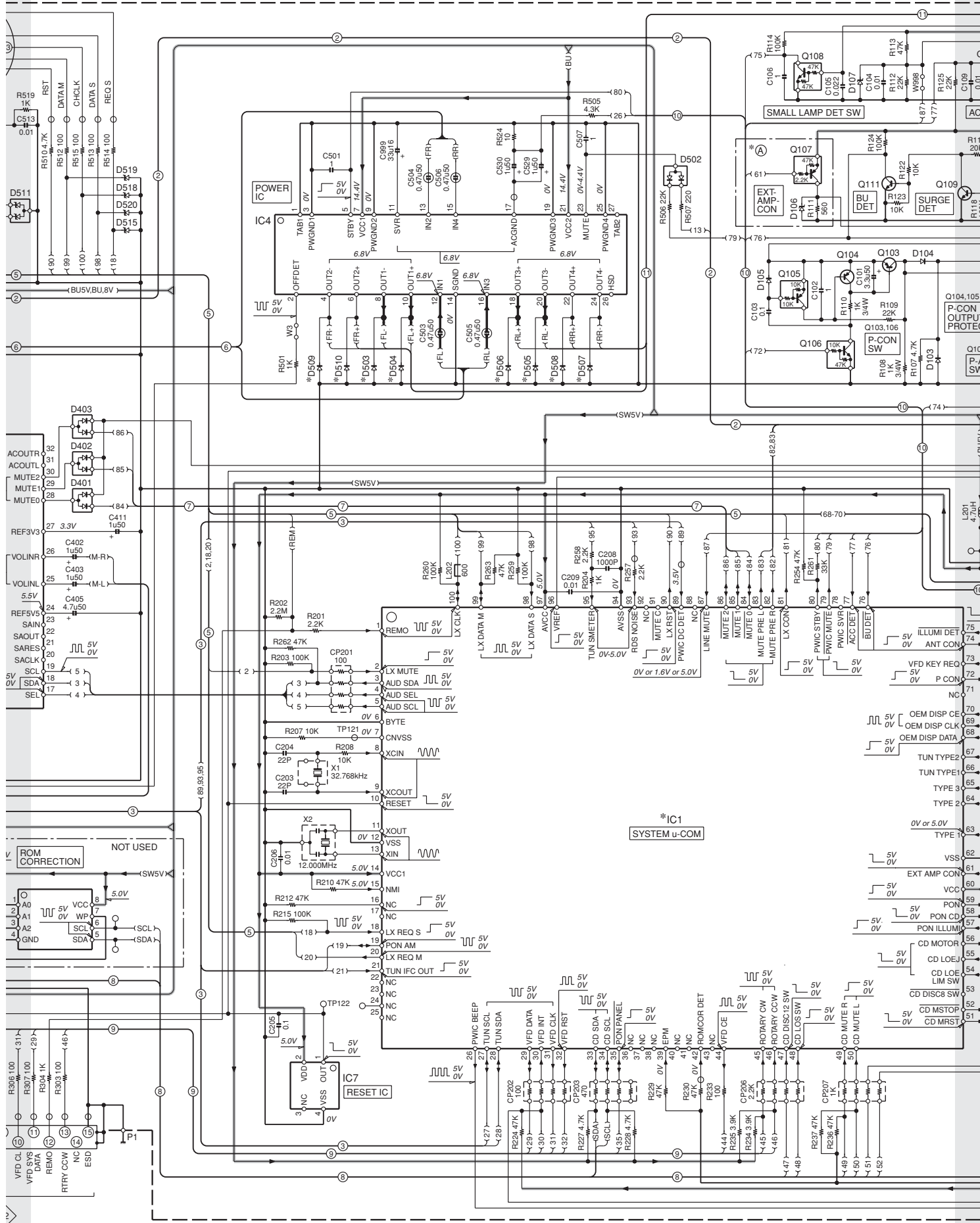
X32-5920-04

Ref. No.	Address	Ref. No.	Address
IC1	3AM	Q1	3AM
IC3	5AK	Q4	2AK
IC4	4AM	Q5	5AM
IC5	4AL	Q6	5AM
IC6	3AJ	Q7	4AM
IC7	3AL	Q8	4AM

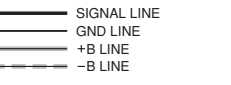
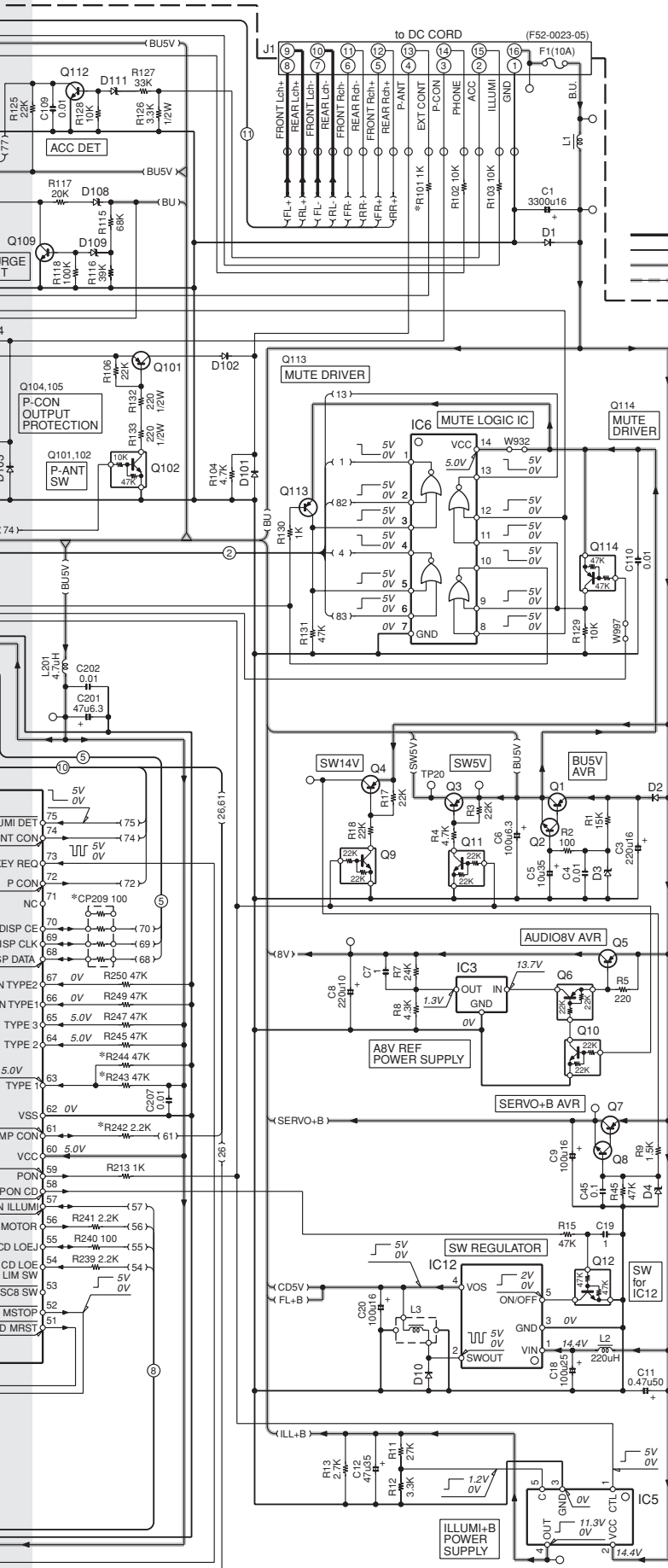
Refer to the schematic diagram for the values of resistors and capacitors.

DPX302, DPX-MP2100



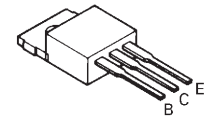


DPX302, DPX-MP2100



- IC1 : *
 - IC2 : * TDA7415CB
 - IC3 : M5237ML-CF0J
 - IC4 : E-TDA7850A
 - IC5 : BA00CCWT-V5
 - IC6 : SN74HC02APWR
 - IC7 : S-80836CNNB-J
 - IC12 : SI-8050JF3NF
- Q1,5,7,302 : 2SB1565
 - Q2,8,303 : KTC4075P(Y,GR)
 - Q3,4,13,104,113 : KTA2014P(Y,GR)
 - Q6,115,116,298 : DTA124EUA
 - Q9-11,299,301 : DTC124EUA
 - Q12,108,306 : DTC144EUA
 - Q101,103 : 2SB1188(Q,R)
 - Q102,106 : DTC114YUA
 - Q105 : DTA114EUA
 - Q107 : DTA123JK
 - Q109,111,112 : 2SC4081
 - Q114 : DTA144EE
 - Q300 : 2SB1689
 - Q305 : 2SA1577
 - Q400-403 : DTC143TUA
- D1 : S2V60*A
 - D2 : RB160L-40
 - D3,106 : 02DZ5.6F-Y
 - D4 : 02DZ8.2F-Y
 - D10 : SFPB-54VNF
 - D101 : 1SR139-400T64
 - D102-105,503,504,507-510 : 1SR154-400
 - D107 : 02DZ4.7F-Y
 - D108,109,405,512 : 02DZ6.8F-Y
 - D111,513-515,518-520 : 02DZ6.2F-Y
 - D301 : HMSA-6801-E
 - D303 : 02DZ9.1F-Z
 - D401-403,502 : BAW56W
 - D404,406 : STZ6.8N
 - D408,409 : DA204K
 - D505,506 : AM012NF
 - D511 : STZ6.2N

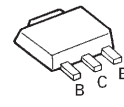
2SB1565



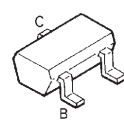
DTA123JK
DTA144EE
DTC114YUA
DTC143TUA
DTC144EE
2SA1576A
2SC4617



2SB1188



2SA1774
2SC4081



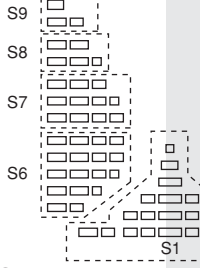
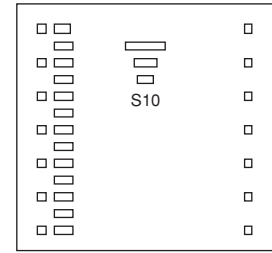
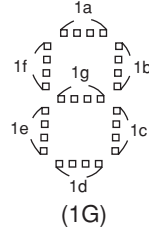
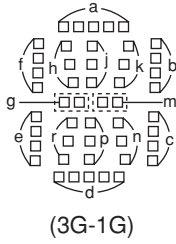
MODEL NAME	UNIT NO.	IC1	R101	R244
DPX301	M1	YES	2SC22-5	YES
DPX-MP2090	M1	YES	30624MMPA76GP	YES
DPX-MP2090S	M1	YES	30624MMPA76GP	YES
DPX302	K1	YES	30624MMPB40GP	YES
DPX-MP2100	M2	YES	30624MMPB40GP	YES

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.

DPX302,DPX-MP2100

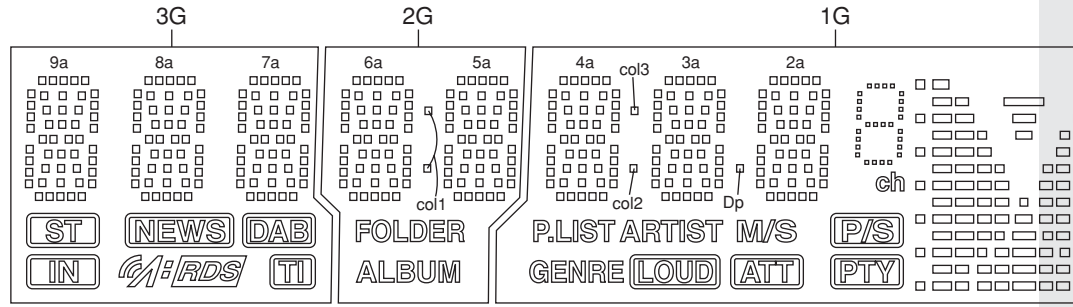
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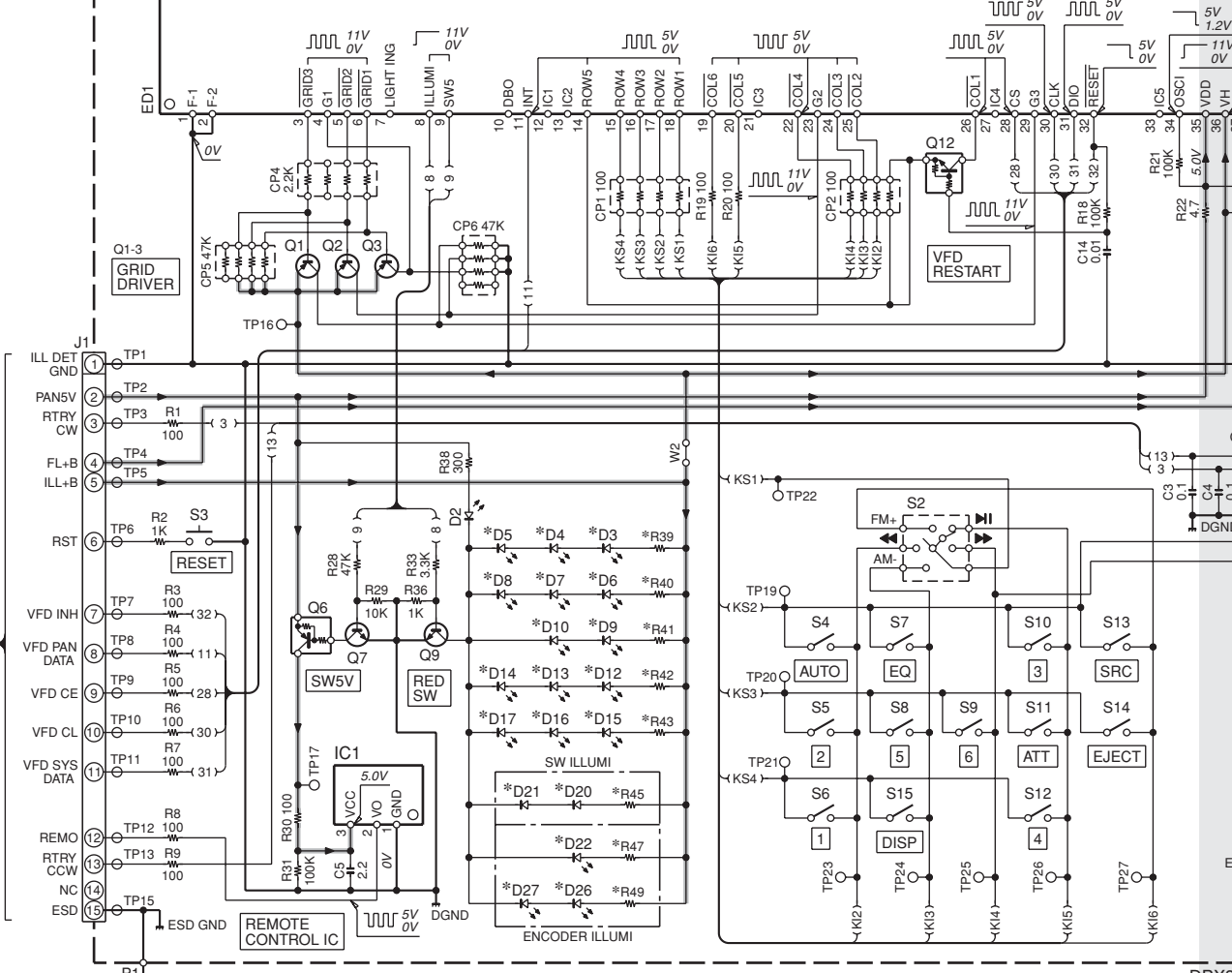
2

SWITCH UNIT (X16-394x-xx)

3



4



5

6

IC1 : PNA4S22M02KW
 D2 : B30-1566-05
 D3-10,12-17 : *
 D20-22,26,27 : *

Q1-3 : 2SA1774
 Q6 : DTA114EUA
 Q7,9 : 2SC4617
 Q12 : DTC144EE

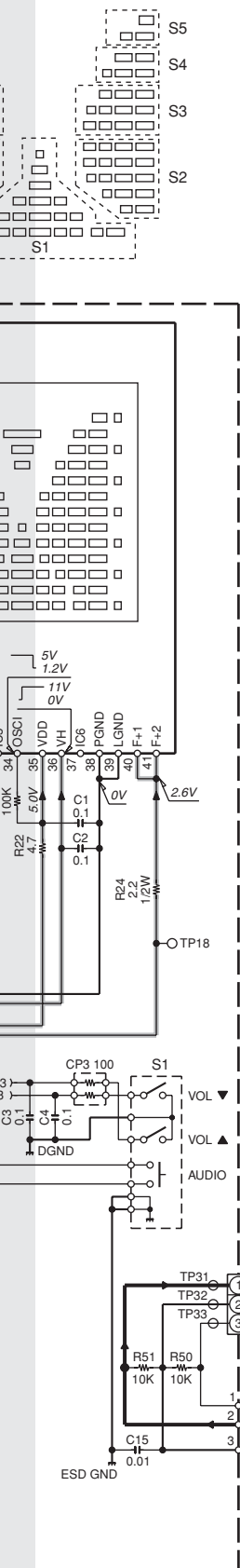
— SIGNAL LINE
 — GND LINE
 — +B LINE

(X16-394x-xx)

MODEL NAME	DESTINATION	UNIT No.	D3-10, 12-17	D20-22, 26,27
DPX302	K1	0-10	B30-1566-05	B30-1767-05
DPX-MP2100	M2	0-21	B30-1575-05	B30-1575-05

7

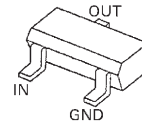
DPX302, DPX-MP2100



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

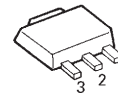
DTA114EUA
DTA124EUA
DTC124EUA
DTC144EUA



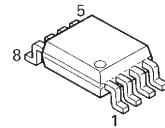
DAP202U
DA204K



M5237ML-CF0J



NJM4580V-ZB



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

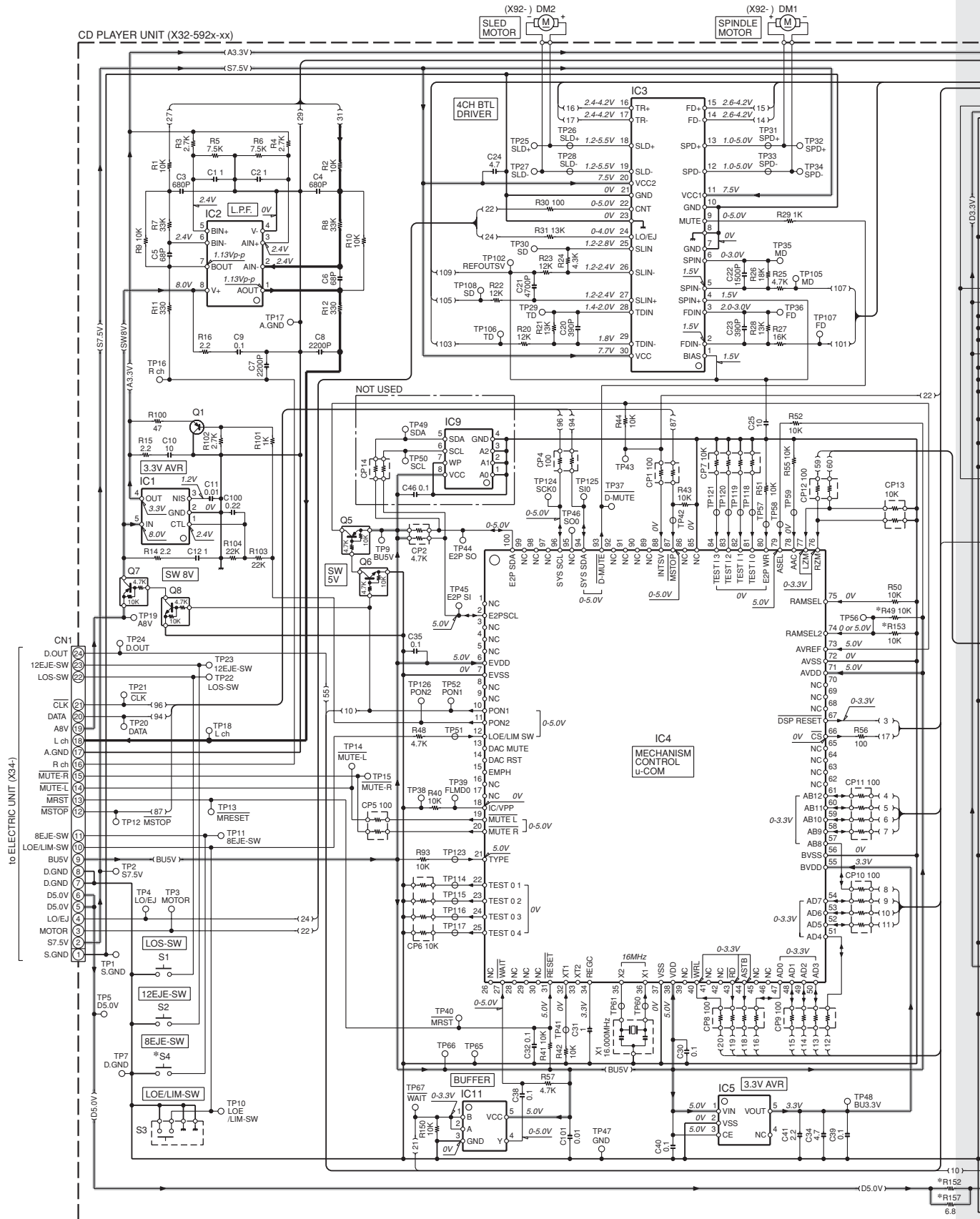
△ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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

DPX302, DPX-MP2100 (2/2)

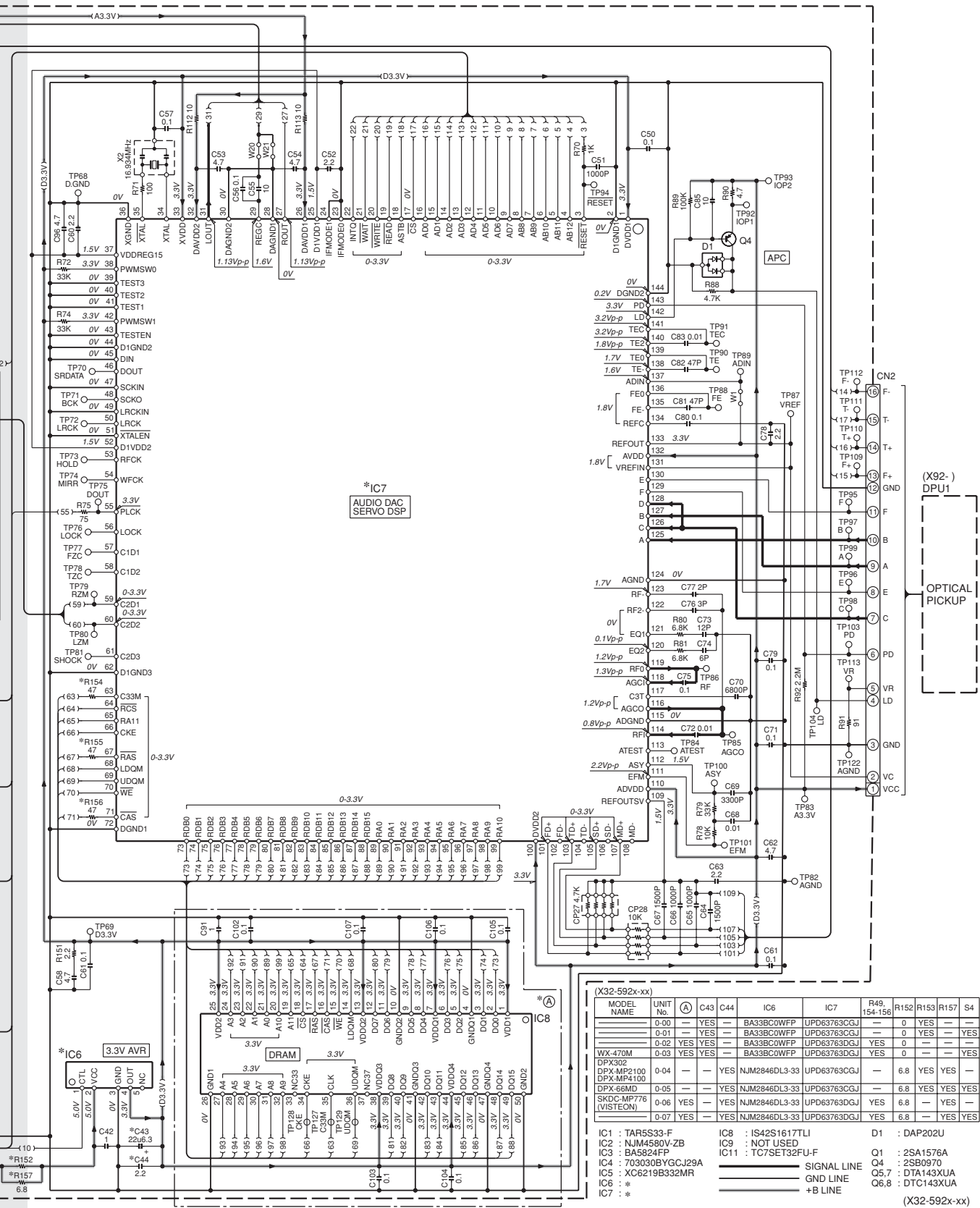
D20-22, 26, 27	R39 40, 42, 43	R41	R45, 49	R47
5 B30-1767-05	620	820	560	910
5 B30-1575-05	510	680	680	1K

DPX302,DPX-MP2100



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.

DPX302, DPX-MP2100



MODEL NAME	UNIT No.	(A)	C43	C44	IC6	IC7	R49, 154-156	R152	R153	R157	S4
DPX302	0-00	—	YES	—	BA33BCOWFP	UPD63763CGJ	—	0	YES	—	—
DPX-MP2100	0-01	—	YES	—	BA33BCOWFP	UPD63763CGJ	—	0	YES	—	—
DPX-MP4100	0-02	YES	YES	—	BA33BCOWFP	UPD63763DGJ	YES	0	—	—	—
WX-470M	0-03	YES	YES	—	BA33BCOWFP	UPD63763DGJ	YES	0	—	—	YES
DPX302	0-04	—	—	YES	NJM2846DL3-33	UPD63763CGJ	—	6.8	YES	YES	—
SKDC-MP776 (VISTEON)	0-06	YES	—	YES	NJM2846DL3-33	UPD63763DGJ	YES	6.8	—	—	—
DPX-MP2100	0-07	YES	—	YES	NJM2846DL3-33	UPD63763DGJ	YES	6.8	—	—	YES

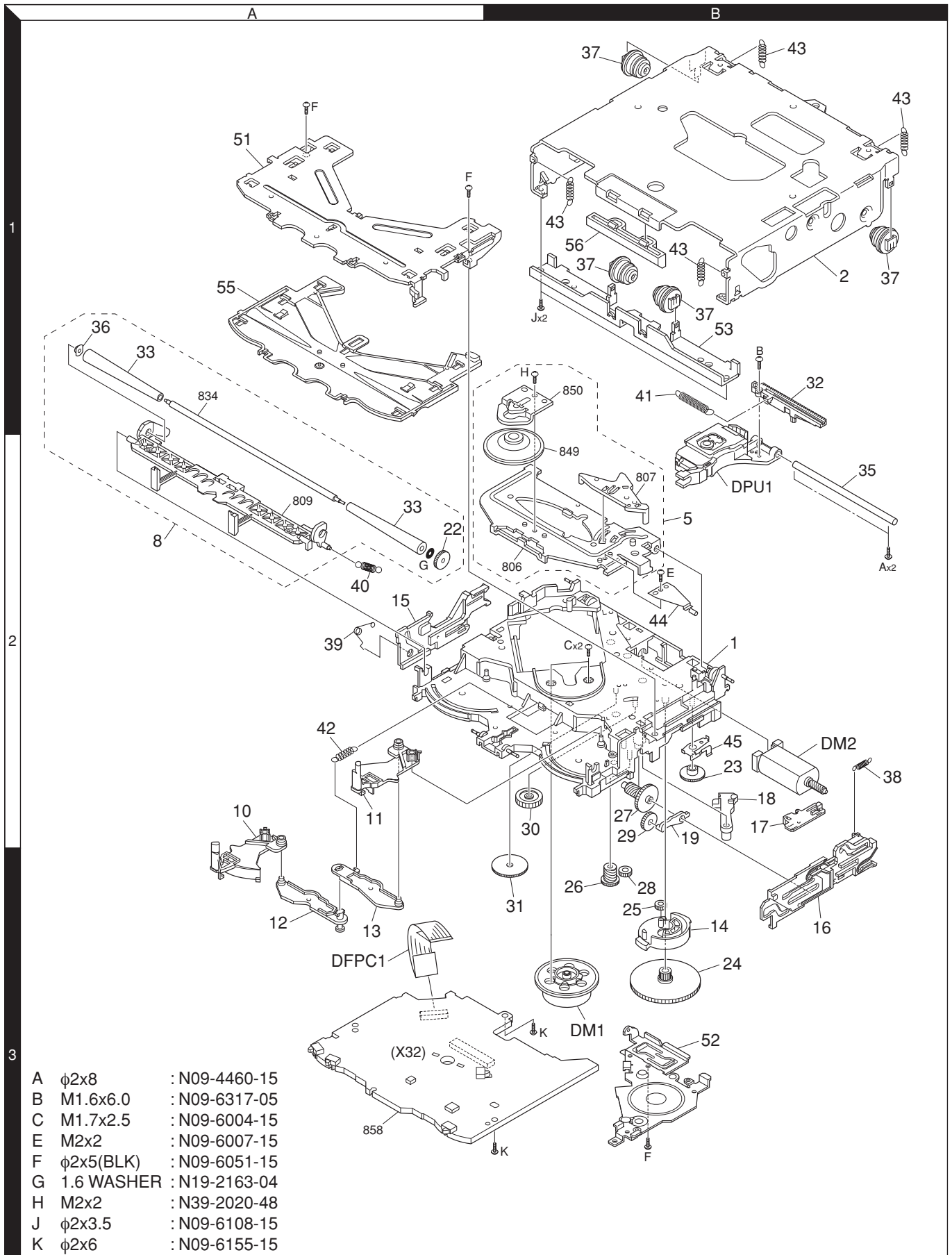
- IC1 : TAR5S33-F
- IC2 : NJM4580V-ZB
- IC3 : BA5924P
- IC4 : 703030BYGCJ29A
- IC6 : XC6219B332MR
- IC7 : *
- IC8 : IS42S1617LI
- IC9 : NOT USED
- IC11 : TC7SET32F-F
- D1 : DAP202U
- Q1 : 2SA1576A
- Q4 : 2SB0970
- Q5,7 : DT143XUA
- Q6,8 : DTC143XUA

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

1
2
3
4
5
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DPX302,DPX-MP2100

EXPLODED VIEW (CD MECHANISM)

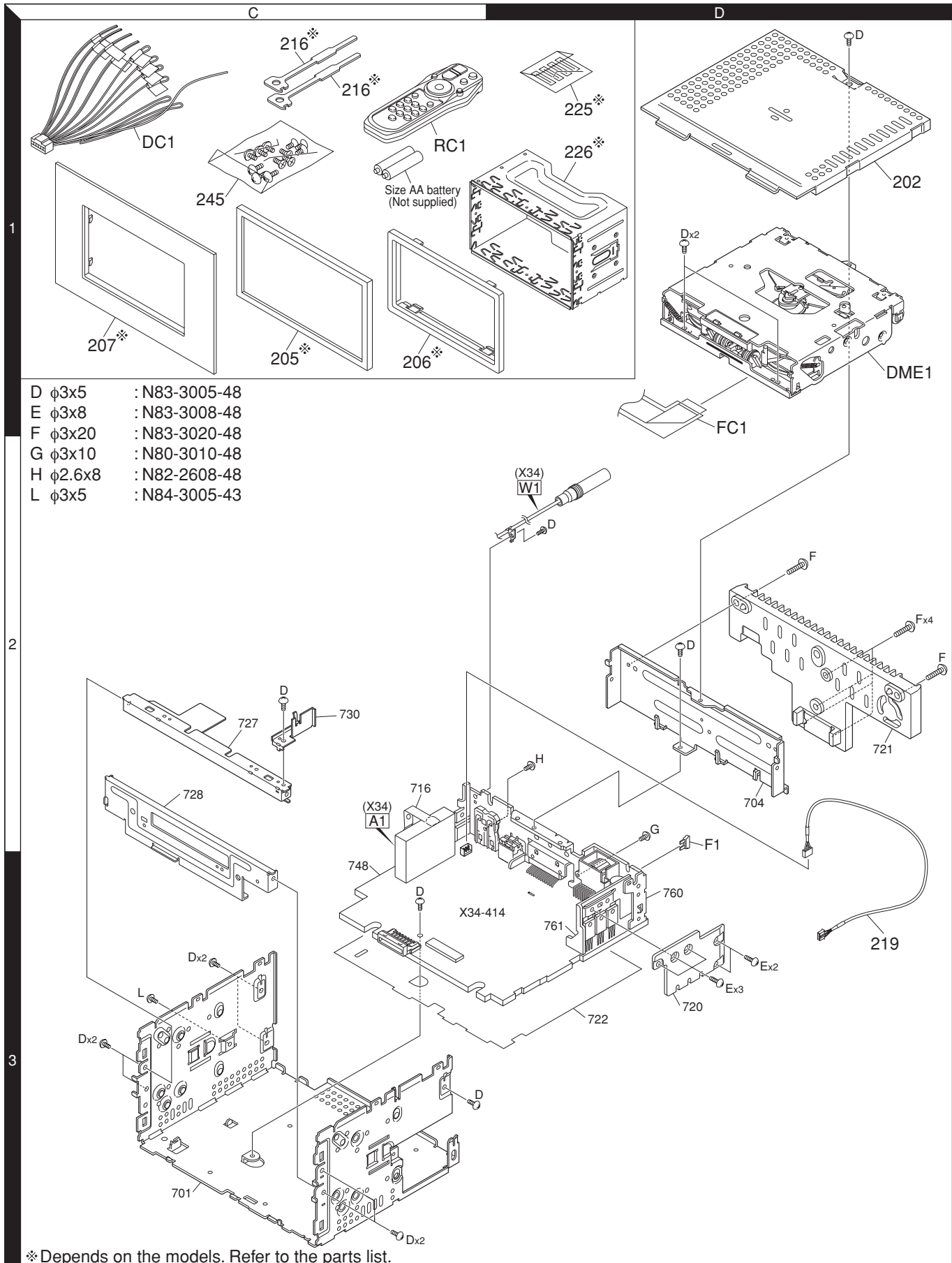


A	φ2x8	: N09-4460-15
B	M1.6x6.0	: N09-6317-05
C	M1.7x2.5	: N09-6004-15
E	M2x2	: N09-6007-15
F	φ2x5(BLK)	: N09-6051-15
G	1.6 WASHER	: N19-2163-04
H	M2x2	: N39-2020-48
J	φ2x3.5	: N09-6108-15
K	φ2x6	: N09-6155-15

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

DPX302,DPX-MP2100

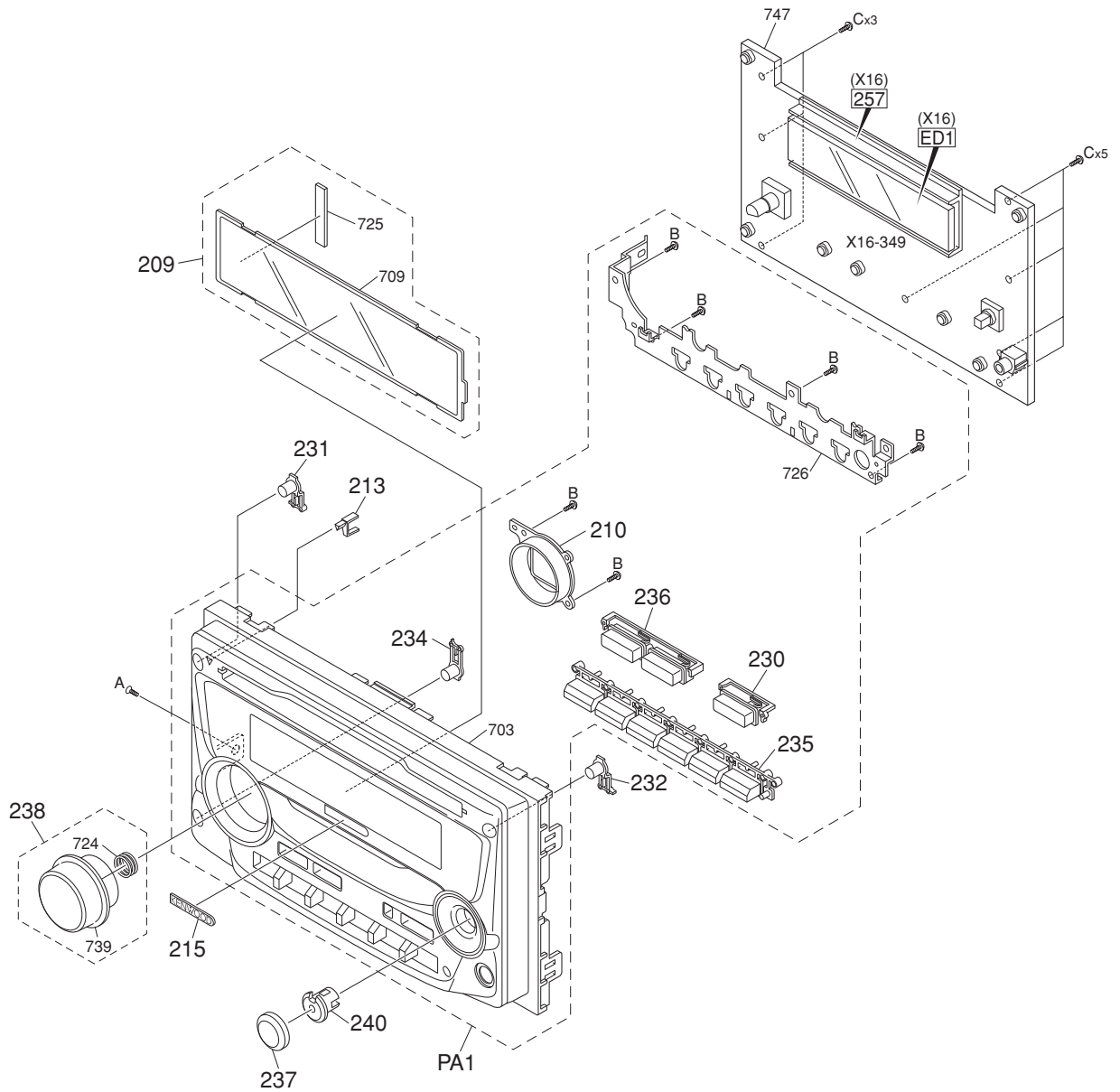
EXPLODED VIEW (UNIT)



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

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.

DPX302,DPX-MP2100

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.	Added	New	Parts No.	Description	Destination
DPX302 / DPX-MP2100					
202	1D		A52-0872-12	TOP PLATE	
PA1	3E	*	A64-4099-02	PANEL ASSY	K1
PA1	3E	*	A64-4100-02	PANEL ASSY	M2
RC1	1C		A70-2087-05	REMOTE CONTROLLER ASSY (RC-557)	
-		*	B64-3612-00	INST. MANUAL (ENGLISH)	M2
-		*	B64-3613-00	INST. MANUAL (T-CHI.KOR.)	M2
-		*	B64-3614-00	INST. MANUAL (ENGLISH)	K1
-		*	B64-3615-00	INST. MANUAL (FRE.SPA.)	K1
205	1C		B07-3046-04	ESCUTCHEON ASSY	M2
206	1C		B07-3165-02	ESCUTCHEON	K1
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 LED)	
215	3E		B43-1535-04	BADGE	
216	1C		D10-4589-04	LEVER	K1
219	3D	*	E39-0884-05	WIRING HARNESS	
△ DC1	1C		E30-6408-05	DC CORD	M2
△ DC1	1C		E30-6414-05	DC CORD	K1
FC1	1D		E39-0811-05	FLAT CABLE	
△ F1	2D		F52-0023-05	FUSE (MINI BLADE TYPE) (10A)	
-		*	H54-3902-03	ITEM CARTON CASE	K1
-		*	H54-3903-03	ITEM CARTON CASE	M2
225	1D		H30-0595-04	ADHESIVE DOUBLE-COATED TAPE	K1
226	1D		J22-0429-13	MOUNTING HARDWARE ASSY	K1
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)	
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)	
245	1C		N99-1779-05	SCREW SET	
A	3E		N78-2660-48	PAN HEAD TAPTITE SCREW	
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	
DME1	1D		X92-5690-00	MECHANISM ASSY (DXM-6B00W)	
SWITCH UNIT (X16-394x-xx)					
D2			B30-1566-05	LED (1608,RED)	M2
D2 -10			B30-1566-05	LED (1608,RED)	K1
D3 -10			B30-1575-05	LED (1608,YG)	M2
D12 -17			B30-1566-05	LED (1608,RED)	K1
D12 -17			B30-1575-05	LED (1608,YG)	M2

Ref. No.	Added	New	Parts No.	Description	Destination
D20 -22			B30-1575-05	LED (1608,YG)	M2
D20 -22			B30-1767-05	LED	K1
D26 ,27			B30-1575-05	LED (1608,YG)	M2
D26 ,27			B30-1767-05	LED	K1
C1 -4			CK73GB1H104K	CHIP C 0.10UF K	
C5			CK73FB1A225K	CHIP C 2.2UF K	
C14 ,15			CK73GB1H103K	CHIP C 0.010UF K	
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			RK73PB2H2R2J	CHIP R 2.2 J 1/2W	
R28			RK73GB2A473J	CHIP R 47K J 1/10W	
R29			RK73GB2A103J	CHIP R 10K J 1/10W	
R30			RK73GB2A101J	CHIP R 100 J 1/10W	
R31			RK73GB2A104J	CHIP R 100K J 1/10W	
R33			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R36			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R38			RK73GB2A301J	CHIP R 300 J 1/10W	
R39 ,40			RK73FB2B511J	CHIP R 510 J 1/8W	M2
R39 ,40			RK73FB2B621J	CHIP R 620 J 1/8W	K1
R41			RK73EB2E681J	CHIP R 680 J 1/4W	M2
R41			RK73EB2E821J	CHIP R 820 J 1/4W	K1
R42 ,43			RK73FB2B511J	CHIP R 510 J 1/8W	M2
R42 ,43			RK73FB2B621J	CHIP R 620 J 1/8W	K1
R45			RK73EB2E561J	CHIP R 560 J 1/4W	K1
R45			RK73EB2E681J	CHIP R 680 J 1/4W	M2
R47			RK73EB2E102J	CHIP R 1.0K J 1/4W	M2
R47			RK73EB2E911J	CHIP R 910 J 1/4W	K1
R49			RK73EB2E561J	CHIP R 560 J 1/4W	K1
R49			RK73EB2E681J	CHIP R 680 J 1/4W	M2
R50 ,51			RK73GB2A103J	CHIP R 10K J 1/10W	
W2			R92-1252-05	CHIP R 0 OHM J 1/16W	
S2			S70-0106-05	TACT SWITCH	
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	

E : Europe K : North America M : Other Areas

K1 : DPX302
M2 : DPX-MP2100

△ Indicates safety critical components.

PARTS LIST

SWITCH UNIT (X16-394x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination
S1			T99-0457-15	ROTARY ENCODER	
ED1	1F		3-BT-235INK	FLUORESCENT INDICATOR TUBE	
IC1			PNA4S22M02KW	ANALOGUE IC	
Q1 -3			2SA1774	TRANSISTOR	
Q6			DTA114EUA	DIGITAL TRANSISTOR	
Q7			2SC4617	TRANSISTOR	
Q9			2SC4617	TRANSISTOR	
Q12			DTC144EE	DIGITAL TRANSISTOR	
CD PLAYER UNIT (X32-5920-04)					
C1 ,2			CK73GB1A105K	CHIP C 1.0UF K	
C3 ,4			CC73GCH1H681J	CHIP C 680PF J	
C5 ,6			CC73GCH1H680J	CHIP C 68PF J	
C7 ,8			CK73GB1H222K	CHIP C 2200PF K	
C9			CK73GB1H104K	CHIP C 0.10UF K	
C10			CK73FB0J106K	CHIP C 10UF K	
C11			CK73GB1H103K	CHIP C 0.010UF K	
C12			CK73GB1A105K	CHIP C 1.0UF K	
C20			CC73GCH1H391J	CHIP C 390PF J	
C21			CK73GB1H472K	CHIP C 4700PF K	
C22			CK73GB1H152K	CHIP C 1500PF K	
C23			CC73GCH1H391J	CHIP C 390PF J	
C24			CK73EB1A475K	CHIP C 4.7UF K	
C25			CK73FB0J106K	CHIP C 10UF K	
C30			CK73GB1H104K	CHIP C 0.10UF K	
C31			CK73GB1A105K	CHIP C 1.0UF K	
C32			CK73GB1H104K	CHIP C 0.10UF K	
C34			CK73FB0J475K	CHIP C 4.7UF K	
C35			CK73GB1H104K	CHIP C 0.10UF K	
C38 -40			CK73GB1H104K	CHIP C 0.10UF K	
C41			CK73GB0J225K	CHIP C 2.2UF K	
C42			CK73GB1A105K	CHIP C 1.0UF K	
C44			CK73GB0J225K	CHIP C 2.2UF K	
C50			CK73GB1H104K	CHIP C 0.10UF K	
C51			CK73GB1H102K	CHIP C 1000PF K	
C52			CK73GB0J225K	CHIP C 2.2UF K	
C53 ,54			CK73GB0J475K	CHIP C 4.7UF K	
C55			CK73FB0J106K	CHIP C 10UF K	
C56 ,57			CK73GB1H104K	CHIP C 0.10UF K	
C58			CK73FB0J475K	CHIP C 4.7UF K	
C60			CK73GB0J225K	CHIP C 2.2UF K	
C61			CK73GB1H104K	CHIP C 0.10UF K	
C62			CK73FB0J475K	CHIP C 4.7UF K	
C63			CK73GB0J225K	CHIP C 2.2UF K	
C64			CK73GB1H152K	CHIP C 1500PF K	
C65 ,66			CK73GB1H102K	CHIP C 1000PF K	
C67			CK73GB1H152K	CHIP C 1500PF K	
C68			CK73GB1H103K	CHIP C 0.010UF K	
C69			CK73GB1H332K	CHIP C 3300PF K	
C70			CK73GB1H682K	CHIP C 6800PF K	
C71			CK73GB1H104K	CHIP C 0.10UF K	
C72			CK73GB1H103K	CHIP C 0.010UF K	
C73			CC73GCH1H120J	CHIP C 12PF J	
C74			CC73GCH1H060D	CHIP C 6.0PF D	
C75			CK73GB1H104K	CHIP C 0.10UF K	

Ref. No.	Add	New	Parts No.	Description	Destination
C76			CC73GCH1H030C	CHIP C 3.0PF C	
C77			CC73GCH1H020C	CHIP C 2.0PF C	
C78			CK73GB0J225K	CHIP C 2.2UF K	
C79 ,80			CK73GB1H104K	CHIP C 0.10UF K	
C81 ,82			CC73GCH1H470J	CHIP C 47PF J	
C83			CK73GB1H103K	CHIP C 0.010UF K	
C85			CK73FB0J106K	CHIP C 10UF K	
C96			CK73GB0J475K	CHIP C 4.7UF K	
C100			CK73GB1C224K	CHIP C 0.22UF K	
C101			CK73GB1H103K	CHIP C 0.010UF K	
CN1			E41-2083-15	FLAT CABLE CONNECTOR	
CN2			E41-2612-05	FLAT CABLE CONNECTOR	
X1			L78-0862-05	RESONATOR (16.00MHZ)	
X2			L78-1216-05	RESONATOR (16.93MHZ)	
CP1			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP2			RK74GA1J472J	CHIP-COM 4.7K J 1/16W	
CP4 ,5			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP6 ,7			RK74HB1J103J	CHIP-COM 10K J 1/16W	
CP8 -11			RK74HB1J101J	CHIP-COM 100 J 1/16W	
CP12			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP13			RK74GA1J103J	CHIP-COM 10K J 1/16W	
CP27			RK74GB1J472J	CHIP-COM 4.7K J 1/16W	
CP28			RK74GB1J103J	CHIP-COM 10K J 1/16W	
R1 ,2			RK73GH2A103D	CHIP R 10K D 1/10W	
R3 ,4			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R5 ,6			RK73GB2A752J	CHIP R 7.5K J 1/10W	
R7 ,8			RK73GB2A333J	CHIP R 33K J 1/10W	
R9 ,10			RK73GH2A103D	CHIP R 10K D 1/10W	
R11 ,12			RK73GB2A331J	CHIP R 330 J 1/10W	
R14 -16			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	
R20			RK73GB2A123J	CHIP R 12K J 1/10W	
R21			RK73GB2A133J	CHIP R 13K J 1/10W	
R22 ,23			RK73GB2A123J	CHIP R 12K J 1/10W	
R24			RK73GB2A432J	CHIP R 4.3K J 1/10W	
R25			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R26			RK73GB2A183J	CHIP R 18K J 1/10W	
R27			RK73GB2A163J	CHIP R 16K J 1/10W	
R28			RK73GB2A133J	CHIP R 13K J 1/10W	
R29			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R30			RK73GB2A101J	CHIP R 100 J 1/10W	
R31			RK73GB2A133J	CHIP R 13K J 1/10W	
R40 -44			RK73GB2A103J	CHIP R 10K J 1/10W	
R48			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R50 -52			RK73GB2A103J	CHIP R 10K J 1/10W	
R55			RK73GB2A103J	CHIP R 10K J 1/10W	
R56			RK73GB2A101J	CHIP R 100 J 1/10W	
R57			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R70			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R71			RK73GB2A101J	CHIP R 100 J 1/10W	
R72			RK73GB2A333J	CHIP R 33K J 1/10W	
R74			RK73GB2A333J	CHIP R 33K J 1/10W	
R75			RK73GB2A750J	CHIP R 75 J 1/10W	
R78			RK73GB2A103J	CHIP R 10K J 1/10W	
R79			RK73GB2A333J	CHIP R 33K J 1/10W	

E : Europe K : North America M : Other Areas

K1 : DPX302
M2 : DPX-MP2100

△ Indicates safety critical components.

DPX302,DPX-MP2100

PARTS LIST

CD PLAYER UNIT (X32-5920-04)

Ref. No.	Add	New	Parts No.	Description	Destination
R80 ,81			RK73GB2A682J	CHIP R 6.8K J 1/10W	
R88			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R89			RK73GB2A104J	CHIP R 100K J 1/10W	
R90			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R91			RK73GB2A910J	CHIP R 91 J 1/10W	
R92			RK73GB2A225J	CHIP R 2.2M J 1/10W	
R93			RK73GB2A103J	CHIP R 10K J 1/10W	
R100			RK73GB2A470J	CHIP R 47 J 1/10W	
R101			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R102			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R103,104			RK73GB2A223J	CHIP R 22K J 1/10W	
R112,113			RK73GB2A100J	CHIP R 10 J 1/10W	
R150			RK73GB2A103J	CHIP R 10K J 1/10W	
R151			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	
R152			RK73FB2B6R8J	CHIP R 6.8 J 1/8W	
R153			RK73GB2A103J	CHIP R 10K J 1/10W	
R157			RK73FB2B6R8J	CHIP R 6.8 J 1/8W	
W1	2D		R92-1252-05	CHIP R 0 OHM J 1/16W	
W20 ,21			R92-1252-05	CHIP R 0 OHM J 1/16W	
S1 ,2			S68-0863-05	PUSH SWITCH	
S3			S68-0862-05	PUSH SWITCH	
D1			DAP202U	DIODE	
IC1			TAR5S33-F	ANALOGUE IC	
IC2			NJM4580V-ZB	ANALOGUE IC	
IC3			BA5824FP	ANALOGUE IC	
IC4			703030BYGCJ29A	MICROCONTROLLER IC	
IC5			XC6219B332MR	ANALOGUE IC	
IC6			NJM2846DL3-33	ANALOGUE IC	
IC7			UPD63763CGJ	MOS-IC	
IC11			TC7SET32FU-F	MOS-IC	
Q1			2SA1576A	TRANSISTOR	
Q4			2SB0970	TRANSISTOR	
Q5			DTA143XUA	DIGITAL TRANSISTOR	
Q6			DTC143XUA	DIGITAL TRANSISTOR	
Q7			DTA143XUA	DIGITAL TRANSISTOR	
Q8			DTC143XUA	DIGITAL TRANSISTOR	
ELECTRIC UNIT (X34-414x-xx)					
C1			C90-6746-05	ELECTRO 3300UF 16WV	
C3			C90-5692-05	ELECTRO 220UF 16WV	
C4			CK73GB1H103K	CHIP C 0.010UF K	
C5			CD04AS1V100M	ELECTRO 10UF 35WV	
C6			CD04AS0J101M	ELECTRO 100UF 6.3WV	
C7			CK73FB1C105K	CHIP C 1.0UF K	
C8			CD04AT1A221M	ELECTRO 220UF 10WV	
C9			CD04AS1C101M	ELECTRO 100UF 16WV	
C11			CD04AS1HR47M	ELECTRO 0.47UF 50WV	
C12			CD04BF1V470M	ELECTRO 47UF 35WV	
C18			CD04BF1E101M	ELECTRO 100UF 25WV	
C19			CK73GB1A105K	CHIP C 1.0UF K	
C20			CD04BK1C101M	ELECTRO 100UF 16WV	
C45			CK73GB1H104K	CHIP C 0.10UF K	
C101			CD04AS1H3R3M	ELECTRO 3.3UF 50WV	
C102			CK73GB1A105K	CHIP C 1.0UF K	
C103			CK73GB1H104K	CHIP C 0.10UF K	

Ref. No.	Add	New	Parts No.	Description	Destination
C104			CK73GB1H103K	CHIP C 0.010UF K	
C105			CK73GB1H223K	CHIP C 0.022UF K	
C106			CK73GB1A105K	CHIP C 1.0UF K	
C109,110			CK73GB1H103K	CHIP C 0.010UF K	
C201			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C202			CK73GB1H103K	CHIP C 0.010UF K	
C203,204			CC73GCH1H220J	CHIP C 22PF J	
C205			CK73GB1H104K	CHIP C 0.10UF K	
C206,207			CK73GB1H103K	CHIP C 0.010UF K	
C208			CK73GB1H102K	CHIP C 1000PF K	
C209			CK73GB1H103K	CHIP C 0.010UF K	
C301			CK73GB1H104K	CHIP C 0.10UF K	
C302,303			CK73GB1H103K	CHIP C 0.010UF K	
C305			CK73GB1H103K	CHIP C 0.010UF K	
C306			CD04AS1V100M	ELECTRO 10UF 35WV	
C307			CK73GB1H103K	CHIP C 0.010UF K	
C308			CD04AS1V100M	ELECTRO 10UF 35WV	
C309			CK73GB1H103K	CHIP C 0.010UF K	
C310			CD04BF1V470M	ELECTRO 47UF 35WV	
C311			CK73GB1H103K	CHIP C 0.010UF K	
C312			CD04BK1C101M	ELECTRO 100UF 16WV	
C313			CD04AS1V100M	ELECTRO 10UF 35WV	
C401			CD04AS1C470M	ELECTRO 47UF 16WV	
C402,403			CD04AS1H010M	ELECTRO 1UF 50WV	
C404			CK73GB1A105K	CHIP C 1.0UF K	
C406,407			CK73FB1A335K	CHIP C 3.3UF K	
C410			CK73GB1H103K	CHIP C 0.010UF K	
C411			CD04AS1H010M	ELECTRO 1UF 50WV	
C413,414			CK73FB1E474K	CHIP C 0.47UF K	
C415,416			CD04AS1H2R2M	ELECTRO 2.2UF 50WV	
C417-420			CD04AS1V100M	ELECTRO 10UF 35WV	
C423,424			CC73GCH1H101J	CHIP C 100PF J	
C426,427			CK73FB1E474K	CHIP C 0.47UF K	
C428			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C429			CK73GB1H103K	CHIP C 0.010UF K	
C431			CD04AS1V100M	ELECTRO 10UF 35WV	
C501			CK73FB1C105K	CHIP C 1.0UF K	
C503-506			C90-5620-05	ELECTRO 0.47UF 50WV	
C507			CK73FB1C105K	CHIP C 1.0UF K	
C510,511			CK73FB1E474K	CHIP C 0.47UF K	
C512			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C513			CK73GB1H103K	CHIP C 0.010UF K	
C529,530			C90-6711-05	ELECTRO 1UF 50WV	
C802			CK73GB1H102K	CHIP C 1000PF K	
C999			CD04AS1C330M	ELECTRO 33UF 16WV	
CN1			E41-2581-05	FLAT CABLE CONNECTOR	
CN4			E41-2446-05	PIN ASSY	
CN5			E41-0944-05	PIN ASSY	
J1			E58-0991-05	RECTANGULAR RECEPTACLE	
J2			E56-0855-05	CYLINDRICAL RECEPTACLE	
J3			E63-0896-05	PIN JACK	
J4			E58-0993-05	RECTANGULAR RECEPTACLE	
W1	2D		E30-6218-15	CORD WITH PLUG	
L1			L33-2319-05	CHOKE COIL ASSY	

E : Europe K : North America M : Other Areas

K1 : DPX302
M2 : DPX-MP2100

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-414x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
L2			L33-1925-05	CHOKE COIL		R127			RK73EB2E333J	CHIP R 33K J 1/4W	
L3			L33-2262-05	CHOKE COIL		R128,129			RK73GB2A103J	CHIP R 10K J 1/10W	
L201			L41-4795-33	SMALL FIXED INDUCTOR (4.7UH)		R130			RK73GB2A102J	CHIP R 1.0K J 1/10W	
L202			L92-0075-05	CHIP FERRITE		R131			RK73GB2A473J	CHIP R 47K J 1/10W	
L301			L33-2260-05	CHOKE COIL		R132,133			RK73PB2H221J	CHIP R 220 J 1/2W	
L302-304			L41-4795-33	SMALL FIXED INDUCTOR (4.7UH)		R201			RK73GB2A222J	CHIP R 2.2K J 1/10W	
X1			L77-2880-05	CRYSTAL RESONATOR		R202			RK73GB2A225J	CHIP R 2.2M J 1/10W	
X2			L78-0872-05	RESONATOR (12MHZ)		R203			RK73GB2A104J	CHIP R 100K J 1/10W	
D	2D		N83-3005-48	PAN HEAD TAPTITE SCREW		R204			RK73GB2A102J	CHIP R 1.0K J 1/10W	
G	3D		N80-3010-48	PAN HEAD TAPTITE SCREW		R207,208			RK73GB2A103J	CHIP R 10K J 1/10W	
H	2D		N82-2608-48	BINDING HEAD TAPTITE SCREW		R210			RK73GB2A473J	CHIP R 47K J 1/10W	
CP201,202			RK74GB1J101J	CHIP-COM 100 J 1/16W		R212			RK73GB2A473J	CHIP R 47K J 1/10W	
CP203			RK74GB1J471J	CHIP-COM 470 J 1/16W		R213			RK73GB2A102J	CHIP R 1.0K J 1/10W	
CP206			RK74GB1J222J	CHIP-COM 2.2K J 1/16W		R215			RK73GB2A104J	CHIP R 100K J 1/10W	
CP207			RK74GB1J102J	CHIP-COM 1.0K J 1/16W		R224			RK73GB2A473J	CHIP R 47K J 1/10W	
CP209			RK74GB1J101J	CHIP-COM 100 J 1/16W	K1	R227,228			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R1			RK73FB2B153J	CHIP R 15K J 1/8W		R229,230			RK73GB2A473J	CHIP R 47K J 1/10W	
R2			RK73GB2A101J	CHIP R 100 J 1/10W		R233			RK73GB2A101J	CHIP R 100 J 1/10W	
R3			RK73GB2A223J	CHIP R 22K J 1/10W		R234,235			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R4			RK73GB2A472J	CHIP R 4.7K J 1/10W		R236,237			RK73GB2A473J	CHIP R 47K J 1/10W	
R5			RK73FB2B221J	CHIP R 220 J 1/8W		R239			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R7			RK73GH2A243D	CHIP R 24K D 1/10W		R240			RK73GB2A101J	CHIP R 100 J 1/10W	
R8			RK73GH2A432D	CHIP R 4.3K D 1/10W		R241			RK73GB2A222J	CHIP R 2.2K J 1/10W	K1
R9			RK73FB2B152J	CHIP R 1.5K J 1/8W		R241,242			RK73GB2A222J	CHIP R 2.2K J 1/10W	M2
R11			RK73GH2A273D	CHIP R 27K D 1/10W		R243			RK73GB2A473J	CHIP R 47K J 1/10W	M2
R12			RK73GH2A332D	CHIP R 3.3K D 1/10W		R244,245			RK73GB2A473J	CHIP R 47K J 1/10W	K1
R13			RK73GB2A272J	CHIP R 2.7K J 1/10W		R245			RK73GB2A473J	CHIP R 47K J 1/10W	M2
R15			RK73GB2A473J	CHIP R 47K J 1/10W		R247			RK73GB2A473J	CHIP R 47K J 1/10W	
R17,18			RK73GB2A223J	CHIP R 22K J 1/10W		R249,250			RK73GB2A473J	CHIP R 47K J 1/10W	
R20			RK73GB2A473J	CHIP R 47K J 1/10W		R254			RK73GB2A473J	CHIP R 47K J 1/10W	
R21			RK73GB2A103J	CHIP R 10K J 1/10W		R257,258			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R31			RK73PB2H180J	CHIP R 18 J 1/2W		R259,260			RK73GB2A104J	CHIP R 100K J 1/10W	
R39			RK73PB2H180J	CHIP R 18 J 1/2W		R261			RK73GB2A333J	CHIP R 33K J 1/10W	
R45			RK73GB2A473J	CHIP R 47K J 1/10W		R262,263			RK73GB2A473J	CHIP R 47K J 1/10W	
R101			RK73EB2E102J	CHIP R 1.0K J 1/4W	M2	R302,303			RK73EB2E101J	CHIP R 100 J 1/4W	
R102,103			RK73EB2E103J	CHIP R 10K J 1/4W		R304			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R104			RK73EB2E472J	CHIP R 4.7K J 1/4W		R305-309			RK73EB2E101J	CHIP R 100 J 1/4W	
R106			RK73GB2A223J	CHIP R 22K J 1/10W		R310			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R107			RK73FB2B472J	CHIP R 4.7K J 1/8W		R311			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R108			R92-5024-05	CHIP R 1K J 3/4W		R312			RK73GB2A473J	CHIP R 47K J 1/10W	
R109			RK73GB2A223J	CHIP R 22K J 1/10W		R313			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R110			R92-5024-05	CHIP R 1K J 3/4W		R316			RK73GB2A104J	CHIP R 100K J 1/10W	
R111			RK73FB2B561J	CHIP R 560 J 1/8W	M2	R317			RK73GB2A471J	CHIP R 470 J 1/10W	
R112			RK73GB2A223J	CHIP R 22K J 1/10W		R318			RK73GB2A104J	CHIP R 100K J 1/10W	
R113			RK73GB2A473J	CHIP R 47K J 1/10W		R319			RK73GB2A471J	CHIP R 470 J 1/10W	
R114			RK73GB2A104J	CHIP R 100K J 1/10W		R320			RK73FB2B102J	CHIP R 1.0K J 1/8W	
R115			RK73FB2B683J	CHIP R 68K J 1/8W		R321			RK73GB2A223J	CHIP R 22K J 1/10W	
R116			RK73GB2A393J	CHIP R 39K J 1/10W		R322			RK73GB2A471J	CHIP R 470 J 1/10W	
R117			RK73FB2B203J	CHIP R 20K J 1/8W		R323			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R118			RK73GB2A104J	CHIP R 100K J 1/10W		R324			RK73GB2A471J	CHIP R 470 J 1/10W	
R122,123			RK73GB2A103J	CHIP R 10K J 1/10W		R325			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R124			RK73GB2A104J	CHIP R 100K J 1/10W		R326			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R125			RK73GB2A223J	CHIP R 22K J 1/10W		R327			RK73GB2A681J	CHIP R 680 J 1/10W	
R126			RD14DB2H332J-T	SMALL-RD 3.3K J 1/2W		R401			RK73GB2A103J	CHIP R 10K J 1/10W	
						R402,403			RK73GB2A331J	CHIP R 330 J 1/10W	

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DPX302,DPX-MP2100

PARTS LIST

ELECTRIC UNIT (X34-414x-xx)

Ref. No.	Ad	New	Parts No.	Description	Destination
R404,405			RK73GB2A223J	CHIP R 22K J 1/10W	
R406,407			RK73GB2A331J	CHIP R 330 J 1/10W	
R408,409			RK73GB2A223J	CHIP R 22K J 1/10W	
R414,415			RK73FB2B181J	CHIP R 180 J 1/8W	
R420,421			RK73FB2B181J	CHIP R 180 J 1/8W	
R422			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R423,424			RK73EB2E100J	CHIP R 10 J 1/4W	
R425			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R431			RK73GB2A100J	CHIP R 10 J 1/10W	
R432			RK73EB2E2R2J	CHIP R 2.2 J 1/4W	
R433,434			RK73GB2A101J	CHIP R 100 J 1/10W	
R501			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R505			RK73GB2A432J	CHIP R 4.3K J 1/10W	
R506			RK73GB2A223J	CHIP R 22K J 1/10W	
R507			RK73GB2A221J	CHIP R 220 J 1/10W	
R508			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R509			RK73EB2E101J	CHIP R 100 J 1/4W	
R510			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R511-515			RK73EB2E101J	CHIP R 100 J 1/4W	
R516,517			RK73EB2E100J	CHIP R 10 J 1/4W	
R518			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R519			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R520			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R521-523			RK73EB2E471J	CHIP R 470 J 1/4W	
R524			RK73GB2A100J	CHIP R 10 J 1/10W	
R801			RK73GB2A8R2J	CHIP R 8.2 J 1/10W	
R802			RK73GB2A5R6J	CHIP R 5.6 J 1/10W	
W3			R92-1252-05	CHIP R 0 OHM J 1/16W	
W15			R92-2053-05	CHIP R 0 OHM J 1/8W	
W931,932			R92-1252-05	CHIP R 0 OHM J 1/16W	
W997,998			R92-1252-05	CHIP R 0 OHM J 1/16W	
D1			S2V60*A	DIODE	
D2			RB160L-40	DIODE	
D3			02DZ5.6F-Y	ZENER DIODE	
D4			02DZ8.2F-Y	ZENER DIODE	
D10			SFPB-54VNF	DIODE	
D101			1SR139-400T64	DIODE	
D102-105			1SR154-400	DIODE	
D106			02DZ5.6F-Y	ZENER DIODE	
D107			02DZ4.7F-Y	ZENER DIODE	
D108,109			02DZ6.8F-Y	ZENER DIODE	
D111			02DZ6.2F-Y	ZENER DIODE	
D301			IMS-A-6801-E	SURGE ABSORBER	
D303			02DZ9.1F-Z	ZENER DIODE	
D401-403			BAW56W	DIODE	
D404			STZ6.8N	ZENER DIODE	
D405			02DZ6.8F-Y	ZENER DIODE	
D406			STZ6.8N	ZENER DIODE	
D408,409			DA204K	DIODE	
D502			BAW56W	DIODE	
D511			STZ6.2N	ZENER DIODE	
D512-515			02DZ6.2F-Y	ZENER DIODE	
D518-520			02DZ6.2F-Y	ZENER DIODE	
IC1		*	30624MWPB40GP	MICROCONTROLLER IC	

Ref. No.	Ad	New	Parts No.	Description	Destination
IC2			E-TDA7415CB	ANALOGUE IC	
IC3			M5237ML-CF0J	ANALOGUE IC	
IC4			E-TDA7850A	ANALOGUE IC	
IC5			BA00CCWT-V5	ANALOGUE IC	
IC6			SN74HC02APWR	MOS-IC	
IC7			S-80836CNNB-J	MOS-IC	
IC12			SI-8050JF3NF	ANALOGUE IC	
Q1			2SB1565	TRANSISTOR	
Q2			KTC4075P(Y,GR)	TRANSISTOR	
Q3 ,4			KTA2014P(Y,GR)	TRANSISTOR	
Q5			2SB1565	TRANSISTOR	
Q6			DTA124EUA	DIGITAL TRANSISTOR	
Q7			2SB1565	TRANSISTOR	
Q8			KTC4075P(Y,GR)	TRANSISTOR	
Q9 -11			DTC124EUA	DIGITAL TRANSISTOR	
Q12			DTC144EUA	DIGITAL TRANSISTOR	
Q13			KTA2014P(Y,GR)	TRANSISTOR	
Q101			2SB1188(Q,R)	TRANSISTOR	
Q102			DTC114YUA	DIGITAL TRANSISTOR	
Q103			2SB1188(Q,R)	TRANSISTOR	
Q104			KTA2014P(Y,GR)	TRANSISTOR	
Q105			DTA114EUA	DIGITAL TRANSISTOR	
Q106			DTC114YUA	DIGITAL TRANSISTOR	
Q107			DTA123JK	DIGITAL TRANSISTOR	
Q108			DTC144EUA	DIGITAL TRANSISTOR	
Q109			2SC4081	TRANSISTOR	
Q111,112			2SC4081	TRANSISTOR	
Q113			KTA2014P(Y,GR)	TRANSISTOR	
Q114			DTA144EE	DIGITAL TRANSISTOR	
Q115,116			DTA124EUA	DIGITAL TRANSISTOR	
Q298			DTA124EUA	DIGITAL TRANSISTOR	
Q299			DTC124EUA	DIGITAL TRANSISTOR	
Q300			2SB1689	TRANSISTOR	
Q301			DTC124EUA	DIGITAL TRANSISTOR	
Q302			2SB1565	TRANSISTOR	
Q303			KTC4075P(Y,GR)	TRANSISTOR	
Q305			2SA1577	TRANSISTOR	
Q306			DTC144EUA	DIGITAL TRANSISTOR	
Q400-403			DTC143TUA	DIGITAL TRANSISTOR	
A1	2C		X86-3840-11	FRONT-END UNIT	
MECHANISM ASSY (X92-5690-00) DXM-6B00W					
1	2B		A10-5328-11	CHASSIS	
2	1B	*	A10-5329-11	CHASSIS	
5	2B		D10-4910-13	ARM ASSY	
8	2A	*	D10-4911-13	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	

E : Europe K : North America M : Other Areas

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PARTS LIST

MECHANISM ASSY (X92-5690-00) DXM-6B00W

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
18	2B		D10-4917-04	ARM							
19	2B		D10-4596-24	ARM							
22	2A		D13-2151-04	GEAR							
23	2B		D13-2152-04	GEAR							
24	3B		D13-2153-04	GEAR							
25	3B		D13-2154-04	GEAR							
26	3B		D13-2155-04	WORM							
27	2B		D13-2156-14	GEAR							
28	3B		D13-2157-04	GEAR							
29	2B		D13-2158-04	GEAR							
30	2B		D13-2168-04	GEAR							
31	3B		D13-2171-04	GEAR							
32	1B		D13-2400-13	RACK (GEAR)							
33	2A		D14-0759-04	ROLLER							
35	2B		D21-2382-04	SHAFT							
36	1A		D23-0954-04	RETAINER							
37	1B		D39-0246-05	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		G02-1399-04	FLAT SPRING							
45	2B		G02-1547-04	FLAT SPRING							
51	1A		J22-0473-21	MOUNTING HARDWARE							
52	3B		J22-0474-12	MOUNTING HARDWARE							
53	1B		J22-0519-03	MOUNTING HARDWARE							
55	1A		J90-1138-41	GUIDE							
56	1B		J90-1023-03	GUIDE							
DFPC1	3A		J86-0027-05	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 (LF)							

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DPX302,DPX-MP2100

SPECIFICATIONS

FM Tuner Section

Frequency Range (DPX302)	
200kHz space	87.9MHz~107.9MHz
Frequency Range (DPX-MP2100)	
50kHz space	87.5MHz~108.0MHz
200kHz space	87.9MHz~107.9MHz
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 (\pm 3.0dB)	30Hz~15kHz
Signal to Noise Ratio (MONO)	70dB
Selectivity (\pm 400kHz)	\geq 80dB
Stereo Separation (1kHz)	40dB

AM Tuner Section

Frequency Range (DPX302)	
10kHz space	530kHz~1700kHz
Frequency Range (DPX-MP2100)	
9kHz space	531kHz~1611kHz
10kHz space	530kHz~1700kHz
Usable Sensitivity (S/N : 20dB)	28dB μ V (25 μ V)

CD Player Section

Laser Diode	GaAlAs
Digital Filter (D/A)	8 Times Over Sampling
D/A Converter	1 Bit
Spindle Speed	1000~400rpm (CLV 2 times)
Wow & Flutter	Below Mesurable Limit
Frequency Response (\pm 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

Audio Section

Maximum Output Power	50W x 4
Full Bandwidth Power (at less than 1% THD)	22W x 4
Speaker Impedance	4~8 Ω
Tone Action	
Bass	100Hz \pm 8dB
Middle	1kHz \pm 8dB
Treble	10kHz \pm 8dB
Preout Level/Load (duaring disc play)	2500mV/10k Ω
Preout Impedance	\leq 600 Ω

Auxiliary Input

Frequency Response (\pm 1dB)	20Hz~20kHz
Input Maximum Voltage	1200mV
Input Impedance	100k Ω

General

Operating Voltage (11~16V allowable)	14.4V
Current Consumption	10A
Installation Size (DPX302) (W x H x D)	182 x 112 x 160 mm (7-3/16 x 4-7/16 x 6-5/16 inch)
Installation Size (DPX-MP2100) (W x H x D)	178 x 100 x 155 mm
Weight (DPX302)	1.85kg / 4.1lbs
Weight (DPX-MP2100)	1.55kg

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.

