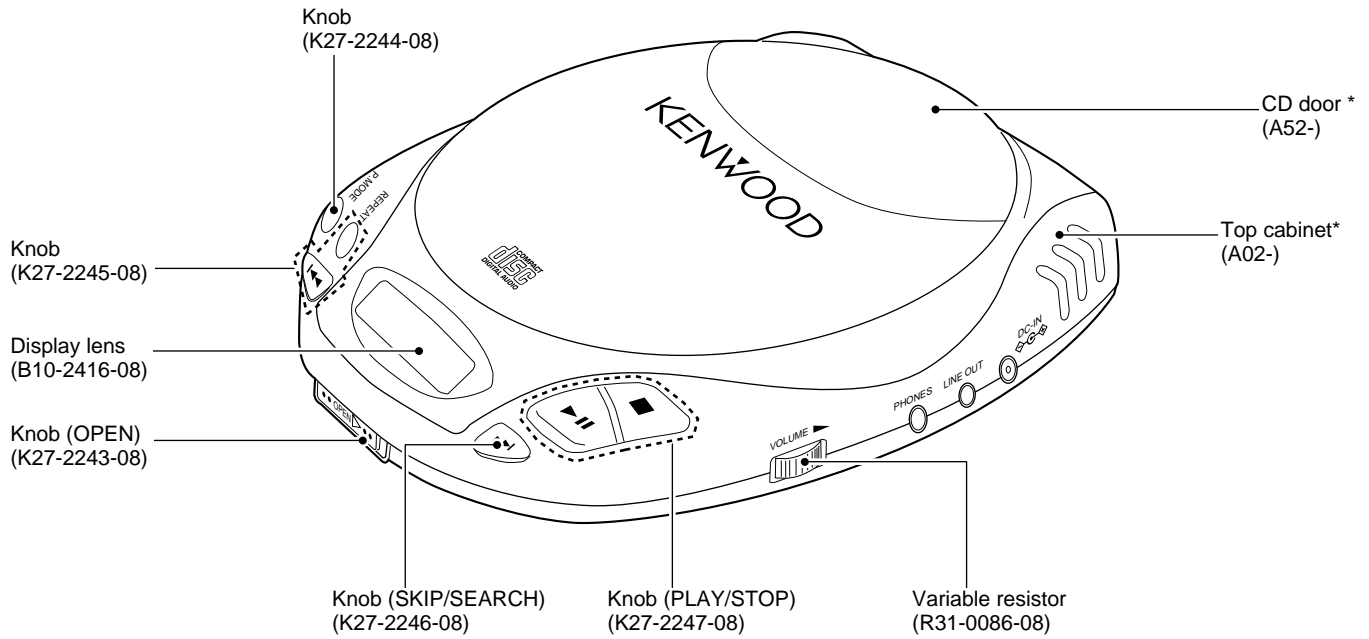
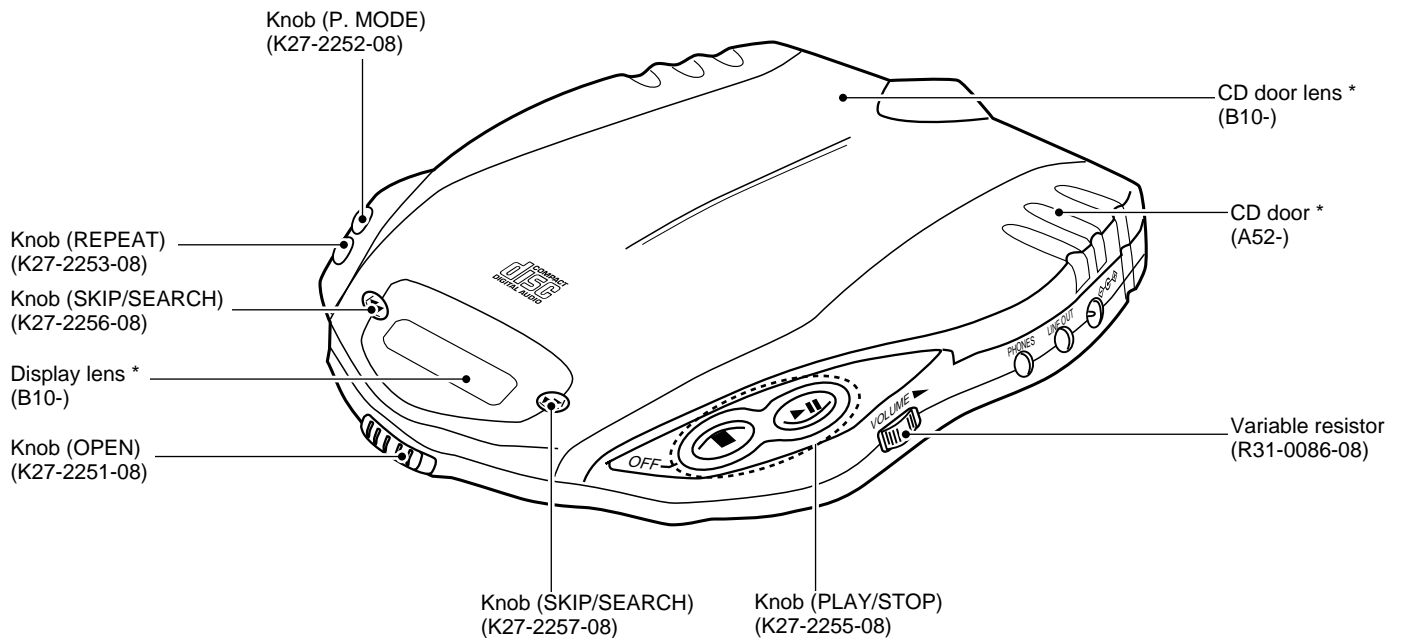


# DPC-181/183/381/382/383

## SERVICE MANUAL



**Illust is DPC-181/381/382.**



**Illust is DPC-183/383.**

**\* Refer to parts list on page 13.**

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

**DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.**

# DPC-181/183/381/382/383

## CONTENTS / ACCESSORIES

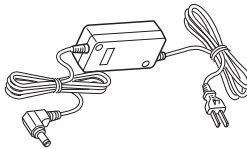
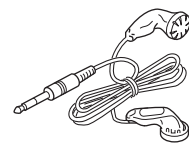
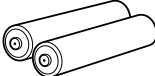
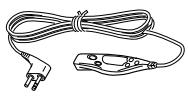
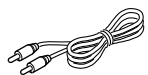
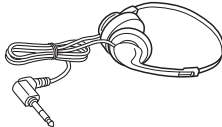
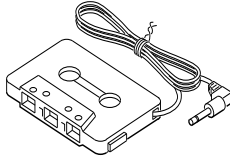
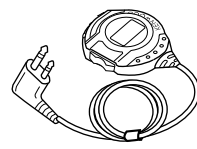
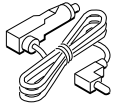
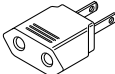
### Contents

CONTENTS / ACCESSORIES .....	2	EXPLODED VIEW .....	13
CIRCUIT DESCRIPTION .....	3	PARTS LIST .....	15
PC BOARD .....	5	SPECIFICATIONS .....	19
SCHEMATIC DIAGRAM .....	9		

### Model feature list

MODEL FEATURE	DPC-181							DPC-183					DPC-381						DPC-382						DPC-383												
	K	P	E	T	M	M2	X	K	P	E	T	M	X	K	P	E	T	M	M2	K	P	E	T	M	X	K	P	E	T	M	M2						
OPTICAL OUT																			○																		○
LINE OUT		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
REMOTE TERMINAL						○						○						○	○																	○	○
DASC KNOB														○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
B.B KNOB	○	○	○	○	○	○	○	○	○	○	○	○	○																								
B.BOOST P.MODE														○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
P.MODE	○	○	○	○	○	○	○	○	○	○	○	○	○																								

### Accessories

<p>AC adapter(110~120V /220-240V 50/60Hz) .....(1)                  (W08-0657-08) : KP                  (W08-0658-08) : E                  (W08-0659-08) : T                  (W08-0660-08) : X                  (W08-0667-05) : M,M2</p> 	<p>Innerphone.....(1)                  (W01-0925-05) : DPC-181(MXTE)                  DPC-183(X)                  DPC-381(TE)                  (W01-0923-05) : DPC-181(M2)                  DPC-183(M)                  DPC-381(M,M2)                  DPC-383(M2)</p> 	
<p>Rechargeable battery .....(1)                  (W09-1239-05) : KP                  (W09-1240-05) : ETMXM2</p> 	<p>Remote control.....(1)                  (A70-1111-08) : DPC-181 (M2)                  DPC-183 (M)</p> 	<p>Audio cable .....(1)                  (E30-2782-05) : DPC-381(E.T)</p> 
<p>Headphone .....(1)                  (W01-0924-05) : DPC-181(KP)                  (W01-0943-05) : DPC-381(KP)                  (T17-0015-08) : DPC-383(M)                  (T17-0016-08) : DPC-383(KPETX)</p> 	<p>Car cassette adapter.....(1)                  (W01-0922-05) : DPC-382</p> 	<p>Remote control.....(1)                  (A70-1190-05) : DPC-381/383 (M,M2)</p> 
<p>Car battery adapter .....(1)                  (W01-0921-05) : DPC-382</p> 	<p>AC plug .....(1)                  (E03-0115-05) : M,M2</p> 	

## CIRCUIT DESCRIPTION

## 1. Microprocessor : (MN171603 H3)

## 1-1 Pin description

Pin No.	Pin name	I/O	Function description	Active
1, 2	–	I	NOT USED	
3	AVSS	–	GND	
4	BBS	O	BBS CONTROL SIGNAL OUTPUT	ON = "H"
5	DATA	O	REMOTE CONTROL SIGNAL OUTPUT	
6, 7	–		NOT USED	
8	KEY	I	KEY INPUT	
9	HOLD	I	HOLD ON/OFF CONTROL	ON = "H"
10	ESP	I	ESP ON/OFF CONTROL	ON = "L"
11	LOW BATTERY	I	BATTERY VOLTAGE DETECTION	LOW BATT. = "H"
12	AVDD	–	SUPPLY VOLTAGE	
13-15	VLC1~VLC3	–	LCD DRIVER BIAS CONTROL	
16-19	COM1~COM4	O	LCD COMMON SIGNAL OUTPUT (COMMON1~4)	
20-33	SEG0~SEG13	O	LCD SEGMENT SIGNAL OUTPUT (SEG0~SEG13)	
34, 35	SEG14, 15	O	NOT USED	
36	MODE-M	I	MEMORY SELECT	4M = "H" OTHER = "L"
37	D-CNT	I	DIGITAL OUT CONTROL	OUT = "H" (ESP OFF)
38	MODE-A	I	USE CUE/REV MODE	
39	MODE-B	I	NOT USED	
40	STDBY	O	NOT USED	
41-44	–	–	NOT USED	
45	DOOR OPEN	I	DOOR SWITCH DETECTION	OPEN = "H"
46	PSET	I	PICKUP INITIAL POSITION	
47	BTCHK	I	BATT. VOLTAGE DIRECTION.	
48-51	–	I	NOT USED	
52	POWER	O	POWER SUPPLY CONTROL.	
53	BAT	O	BATTERY CONTROL OUTPUT	CHARGING = "H"
54	D MUTE	O	MUTE CONTROL	ON = "H"
55	SBCK	O	SUB CODE READ TIMING CLOCK FOR MN662740RE	
56	FCLK	I	FRAME CLOCK SIGNAL from MN662740RE	
57	FLAG	I	FLAG SIGNAL INPUT from MN662740RE	
58	IPFLAG	I	CORRECTION = "H"	
59	–	I	GND	
60	STAT	I	STATUS SIGNAL from DSP	
61	SENSE	I	SENSITIVE SIGNAL from DSP	
62	TLOCK	I	TRACKING SERVO	IN = "L"
63	FLOCK	I	FOCUSING SERVO	IN = "L"
64	MCLK	O	COMMAND CLOCK for MN662740RE	
65	MDATA	O	COMMAND DATA for MN662740RE	
66	MLD	O	COMMAND DATA LATCH (LOAD) for MN662740RE	
67	–	O	NOT USED	
68	RST	I	SYSTEM RESET INPUT	
69	X1	I	GND	
70	X2	O	NOT USED	
71	Vss	–	GND	
72	–	O	NOT USED	
73	SMCK	I	EXTERNAL SYSTEM CLOCK = 4.2336MHz	

# DPC-181/183/381/382/383

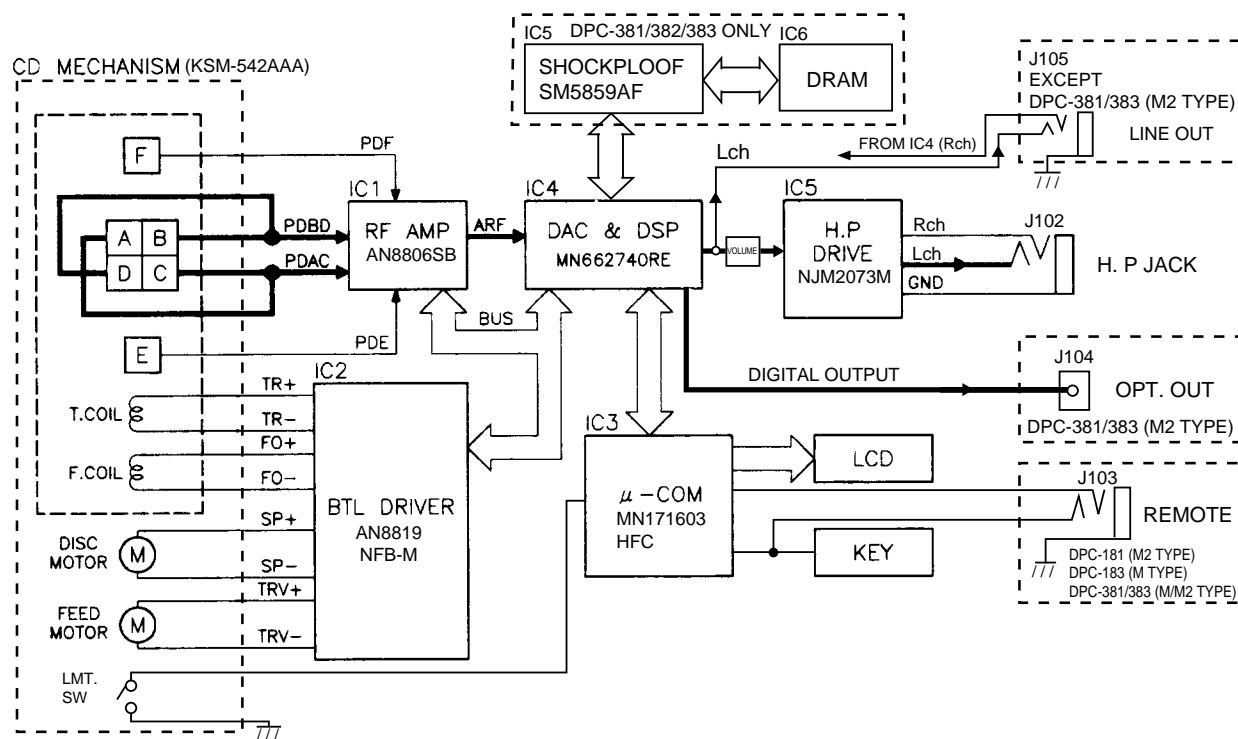
## CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Function description	Active
74	VDD	-	SUPPLY VOLTAGE (ESP ON = 4.2V / OFF = 3.2V)	
75	LRST	O	RESET SIGNAL for MN662740RE, SM5859AF	
76	SQCK	O	SUBQ READ TIMING CLOCK to MN662740RE	
77	SUBQ	I	SUBQ DATA from MN 662740RE	
78	-	O	NOT USED	
79	YMLD	O	COMMAND DATA LATCH (LOAD) for SM5859AF	
80	YMCLK	O	COMMAND CLOCK for SM5859AF	
81	ZSENSE	I	SENSITIVE SIGNAL from SM5859AF	
82	YMDATA	O	COMMAND DATA for SM5859AF	
83	BLKCK	I	SUBQ READ REQUEST SIGNAL IN.	
84	-	I	GND	

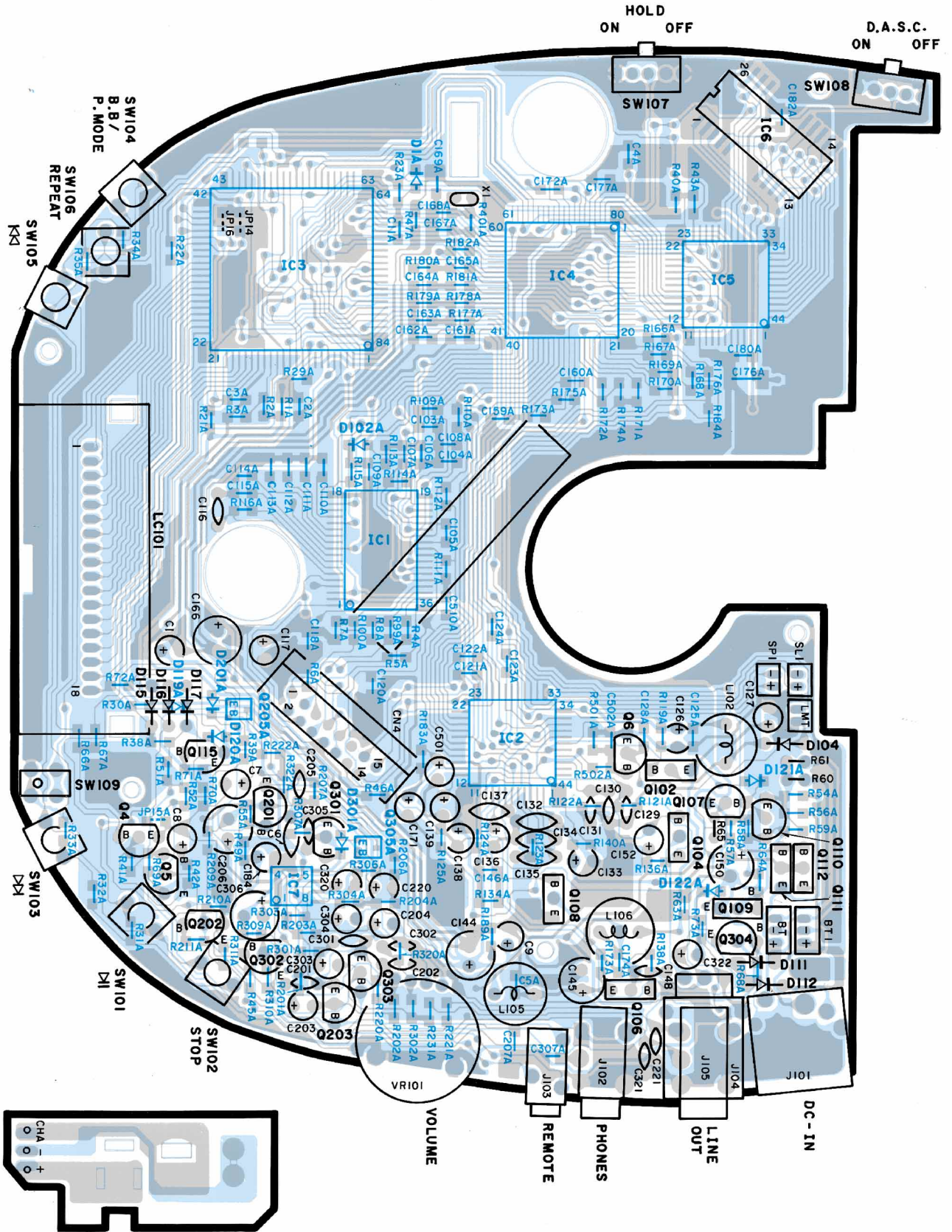
### 1-2 Voltage of pin No. 8 (IC3) / Key function.

KEY	V	Key of unit (Remocon)
	0.00	PLAY/PAUSE (▶/⏸)
	0.75	STOP (■)
	1.00	UP (▶▶)
	1.23	B. BOOST / P. MODE
	1.43	DOWN (◀◀)
	1.69	REPEAT
	2.13	MUTE (Only Remocon)
	2.55	KEY OFF
	3.0	

### 1-3 Microprocessor periphery block diagram

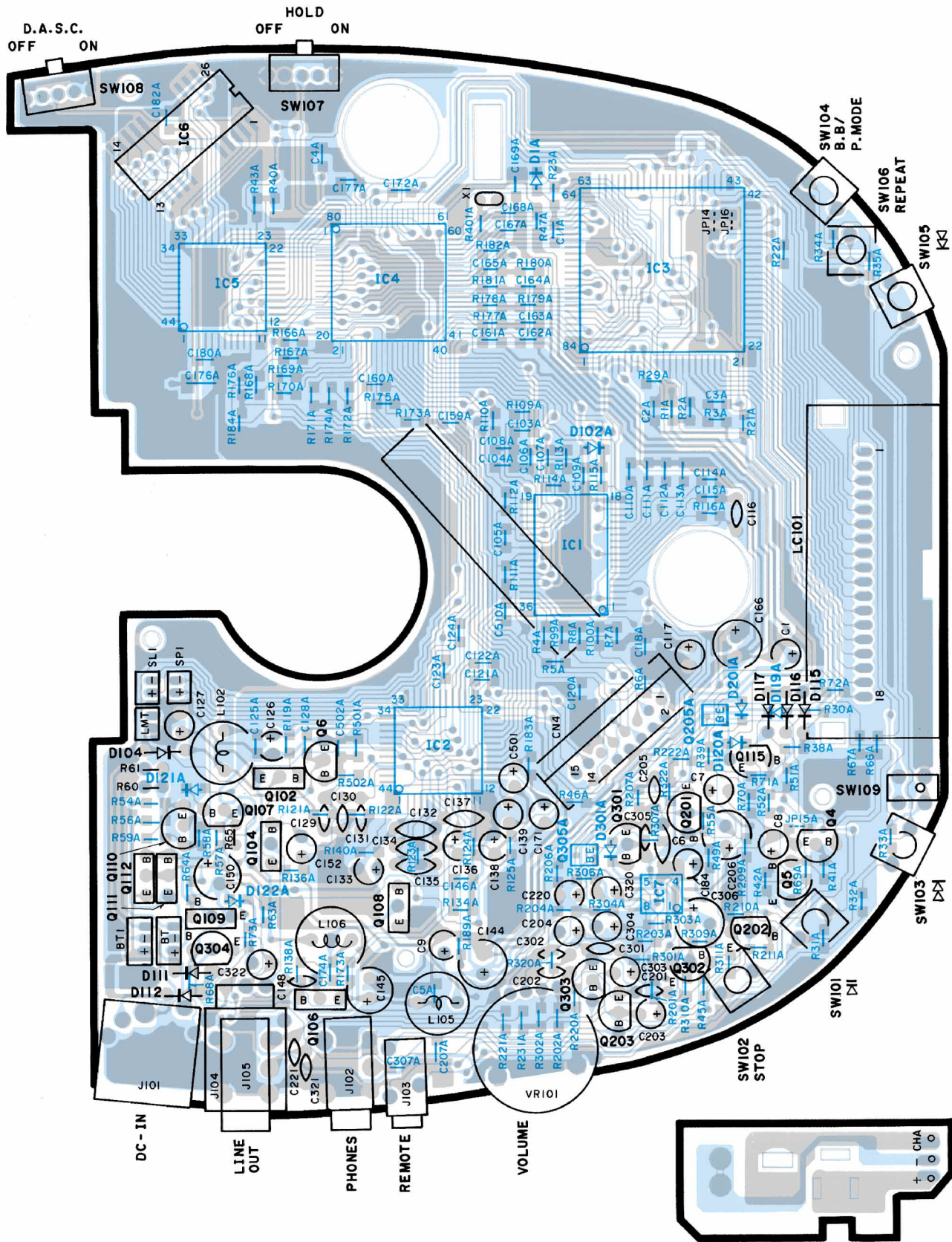


# PC BOARD(Component side view) : DPC-181/381/382



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

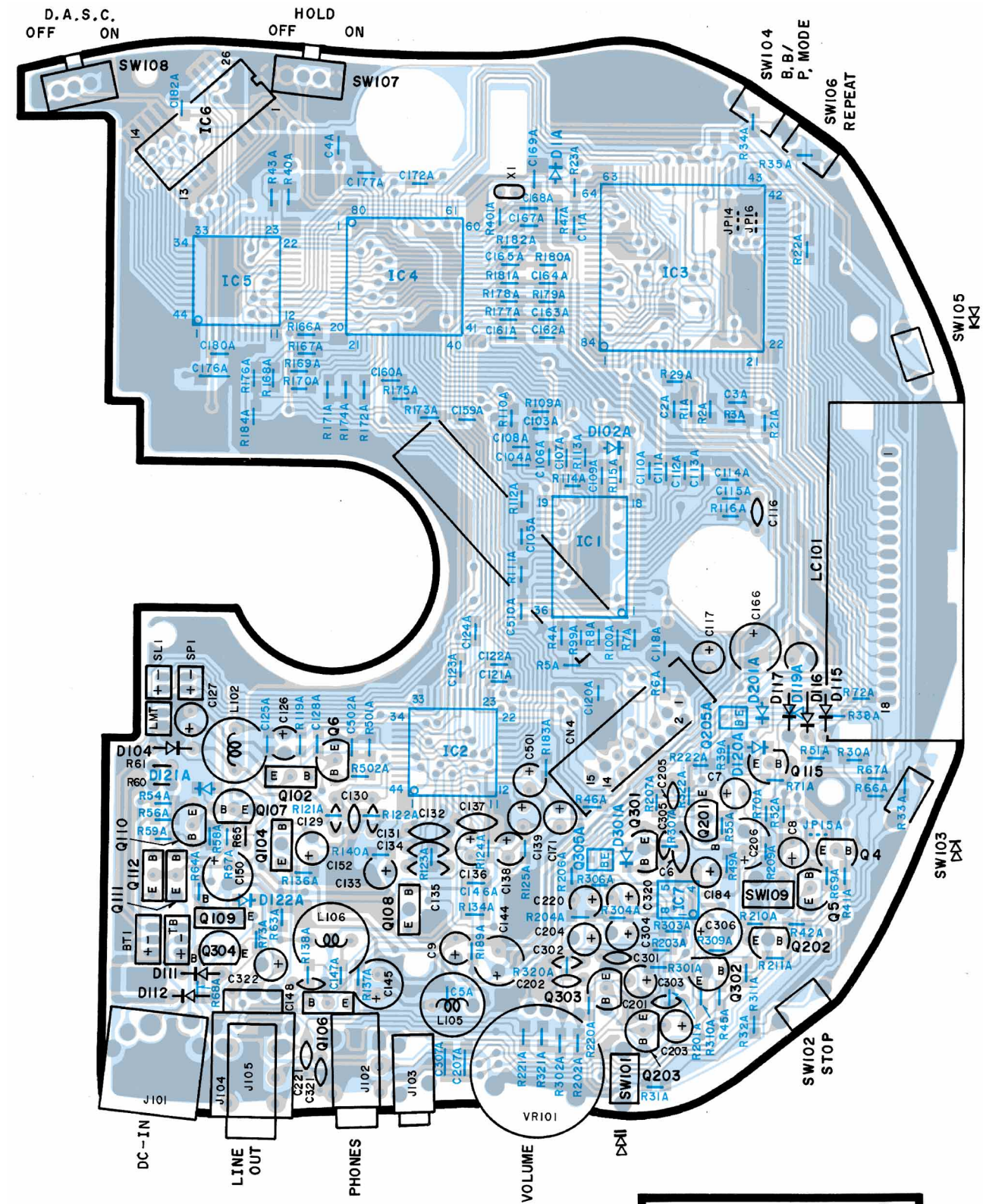
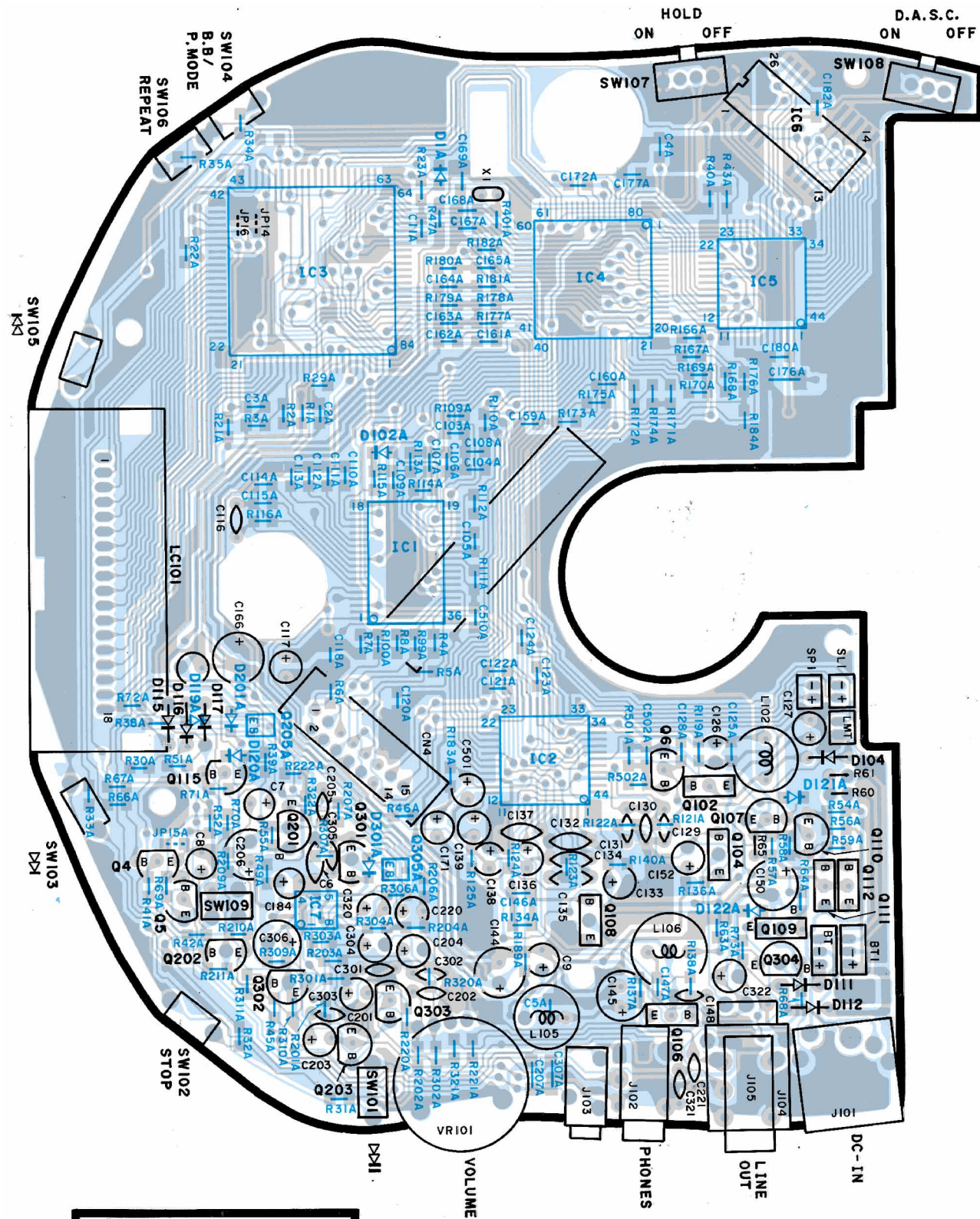
# PC BOARD(Foil side view) : DPC-181/381/382



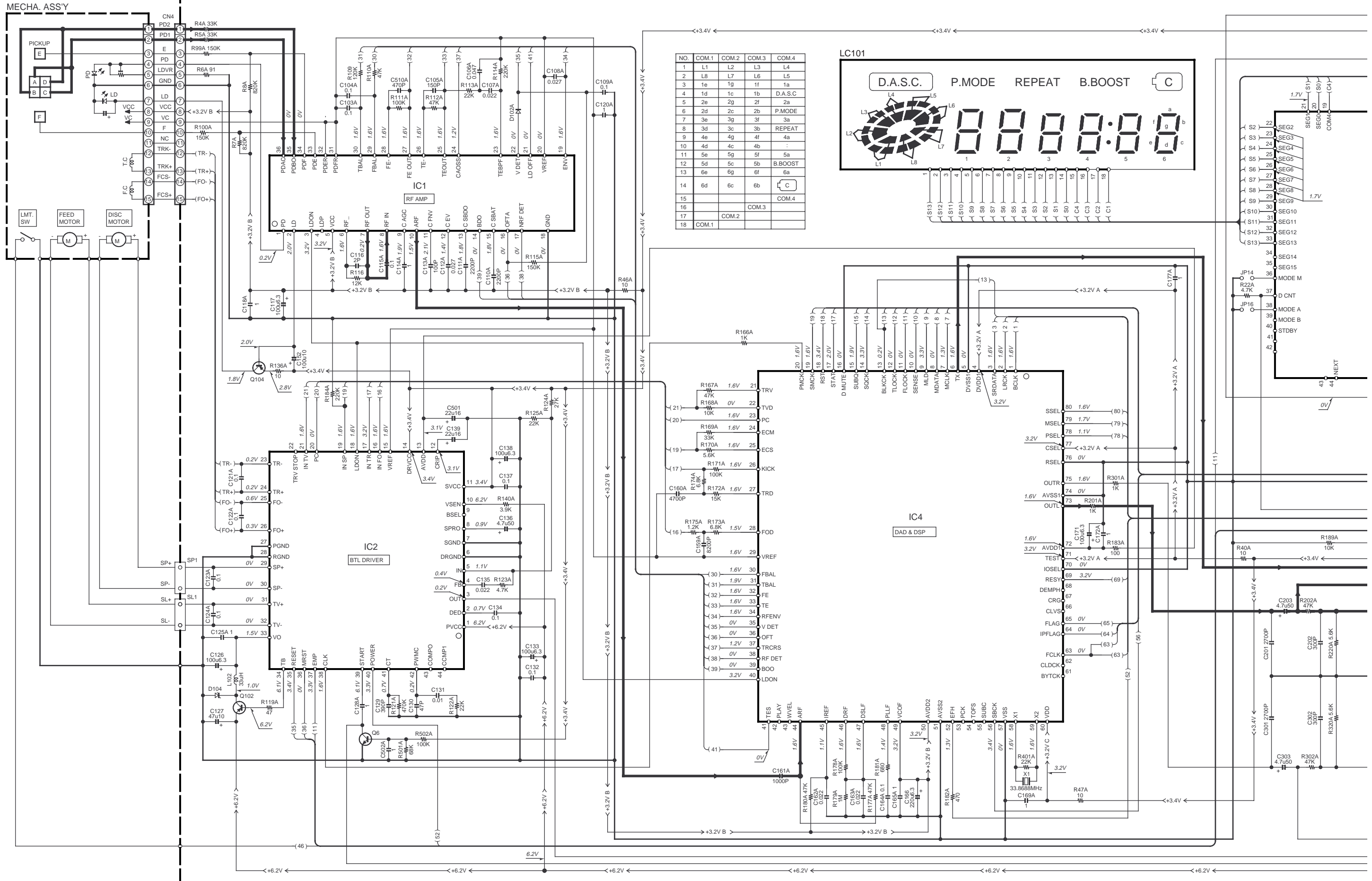
Refer to the schematic diagram for the value of resistors and capacitors.

# PC BOARD(Component side view) : DPC-183/383

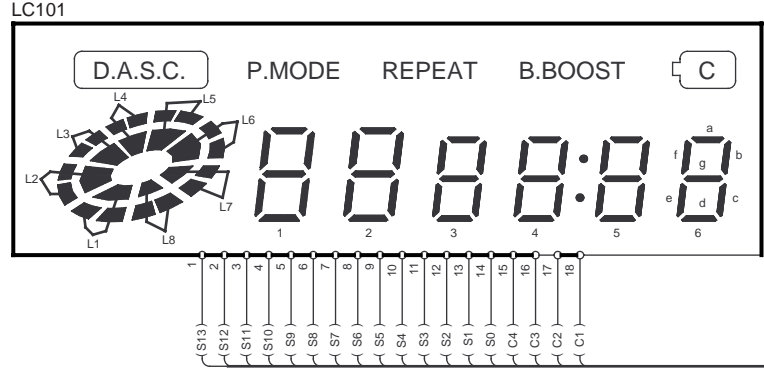
# PC BOARD(Foil side view) : DPC-183/383



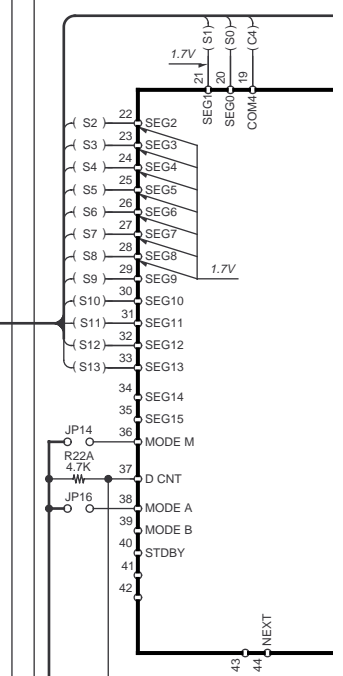
Refer to the schematic diagram for the value of resistors and capacitors.



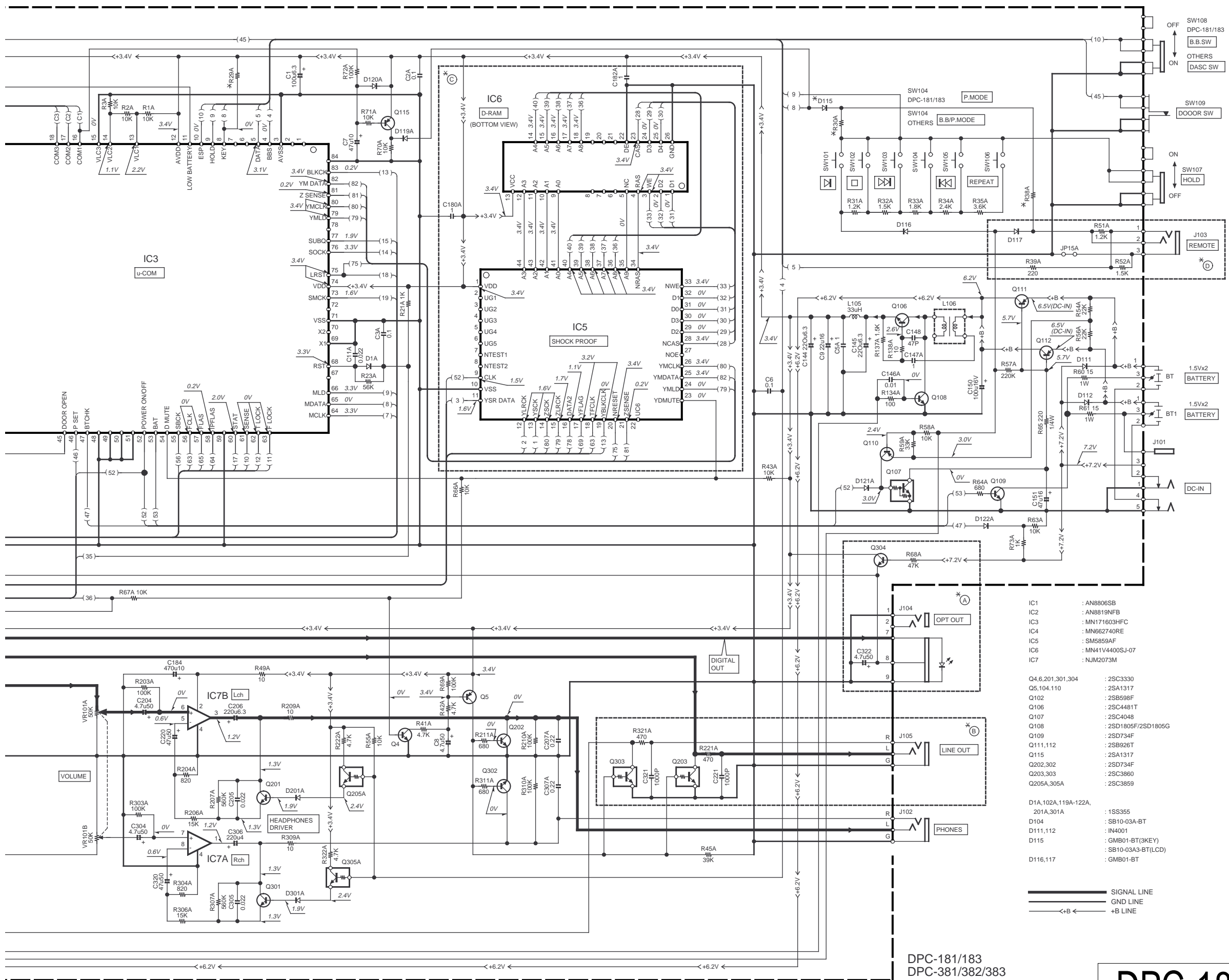
NO	COM.1	COM.2	COM.3	COM.4
1	L1	L2	L3	L4
2	L8	L7	L6	L5
3	1e	1g	1f	1a
4	1d	1c	1b	D.A.S.C
5	2e	2g	2f	2a
6	2d	2c	2b	P.MODE
7	3e	3g	3f	3a
8	3d	3c	3b	REPEAT
9	4e	4g	4f	4a
10	4d	4c	4b	5a
11	5e	5g	5f	5a
12	5d	5c	5b	B.BOOST
13	6e	6g	6f	6a
14	6d	6c	6b	COM.4
15				
16			COM.3	
17		COM.2		
18	COM.1			



IC4  
DAD & DSP

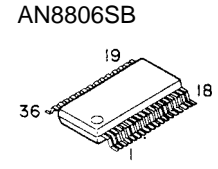




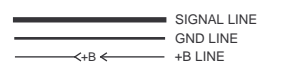


**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of 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.

The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY with DASC OFF (at the normal speed) unless otherwise specified; The value shown in ( ) is the voltage measured at the moment of STOP.



- IC1 : AN8806SB
  - IC2 : AN8819NFB
  - IC3 : MN171603HFC
  - IC4 : MN662740RE
  - IC5 : SM5859AF
  - IC6 : MN41V4400SJ-07
  - IC7 : NJM2073M
- 
- Q4,6,201,301,304 : 2SC3330
  - Q5,104,110 : 2SA1317
  - Q102 : 2SB598F
  - Q106 : 2SC4481T
  - Q107 : 2SC4048
  - Q108 : 2SD1805F/2SD1805G
  - Q109 : 2SD734F
  - Q111,112 : 2SB926T
  - Q115 : 2SA1317
  - Q202,302 : 2SD734F
  - Q203,303 : 2SC3860
  - Q205A,305A : 2SC3859
- 
- D1A,102A,119A-122A, 201A,301A : 1SS355
  - D104 : SB10-03A-BT
  - D111,112 : 1N4001
  - D115 : GMB01-BT(3KEY)
  - D116,117 : SB10-03A3-BT(LCD)
  - : GMB01-BT



DPC-181

DESTINATION	COUNTRY	ABB	(A)	(B)	(C)	(D)	D115	R29A	R30A	R38A
U.S.A.	K									
CANADA	P									
EUROPE	E		NO	YES		NO	NO	NO	NO	
U.K.	T									
AUSTRALIA	X									
GENERAL MARKET	M				YES	GMB01-BT	10K	0		

DPC-183

DESTINATION	COUNTRY	ABB	(A)	(B)	(C)	(D)	D115	R29A	R30A	R38A
U.S.A.	K									
CANADA	P									
EUROPE	E		NO	YES		NO	NO	NO	NO	
U.K.	T									
AUSTRALIA	X									
GENERAL MARKET	M				YES	GMB01-BT	10K	0		

DPC-381

DESTINATION	COUNTRY	ABB	(A)	(B)	(C)	(D)	D115	R29A	R30A	R38A
U.S.A.	K									
CANADA	P									
EUROPE	E		NO	YES	YES	NO	NO	NO	NO	NO
U.K.	T									
AUSTRALIA	X									
GENERAL MARKET	M		YES	NO		YES	SB10-03A	8.2K	1K	820

DPC-382

DESTINATION	COUNTRY	ABB	(A)	(B)	(C)	(D)	D115	R29A,30A,38A
U.S.A.	K							
CANADA	P							
EUROPE	E		NO	YES		NO	NO	NO
U.K.	T							
AUSTRALIA	X							
GENERAL MARKET	M				YES	NO	NO	NO

DPC-383

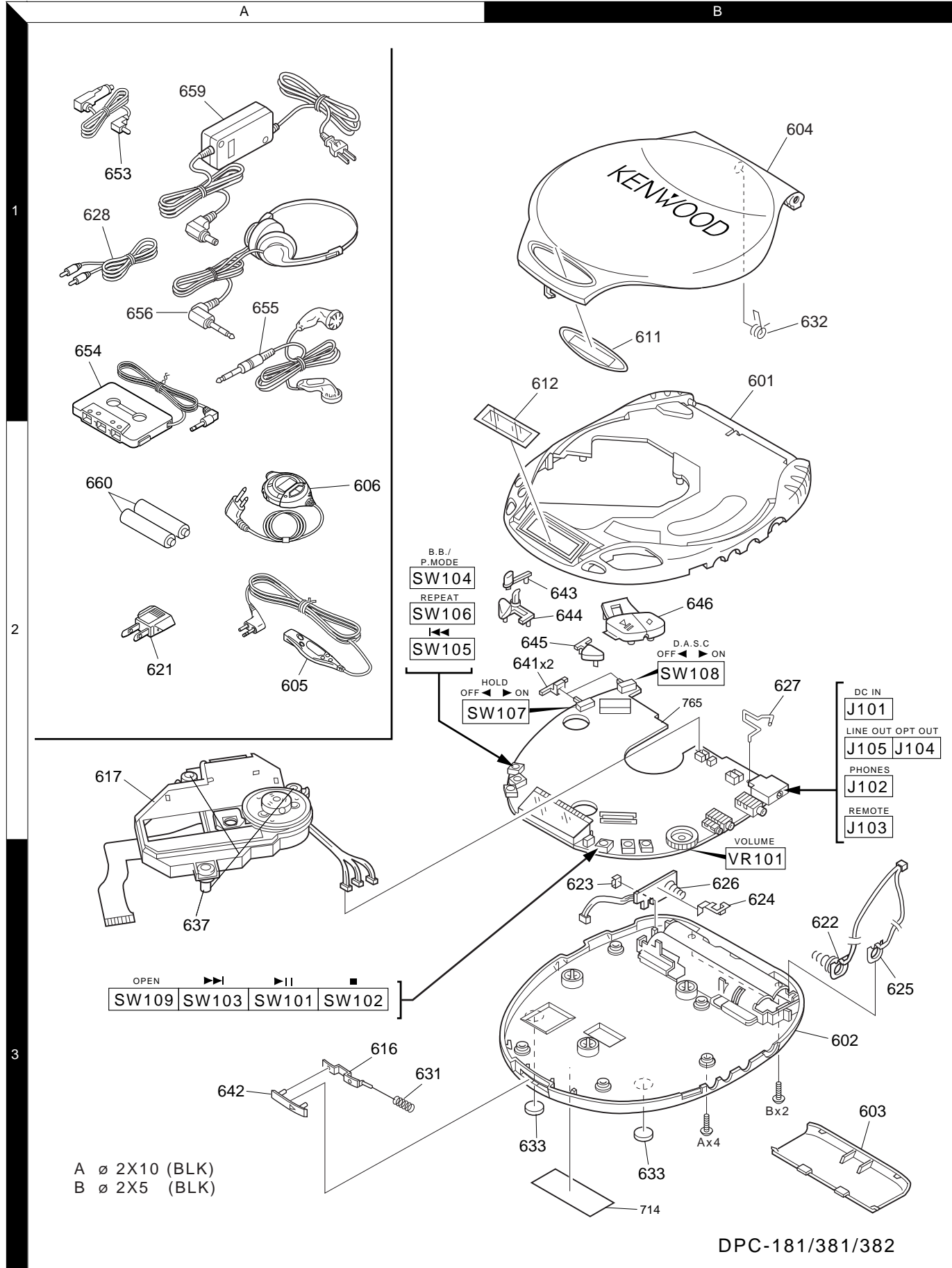
DESTINATION	COUNTRY	ABB	(A)	(B)	(C)	(D)	D115	R29A	R30A	R38A
U.S.A.	K									
CANADA	P									
EUROPE	E		NO	YES	YES	NO	NO	NO	NO	NO
U.K.	T									
AUSTRALIA	X									
GENERAL MARKET	M		YES	NO		YES	SB10-03A	8.2K	1K	820

DPC-181/183  
DPC-381/382/383

**DPC-181/183/381/382/383**

# DPC-181/183/381/382/383

## EXPLODED VIEW(UNIT)

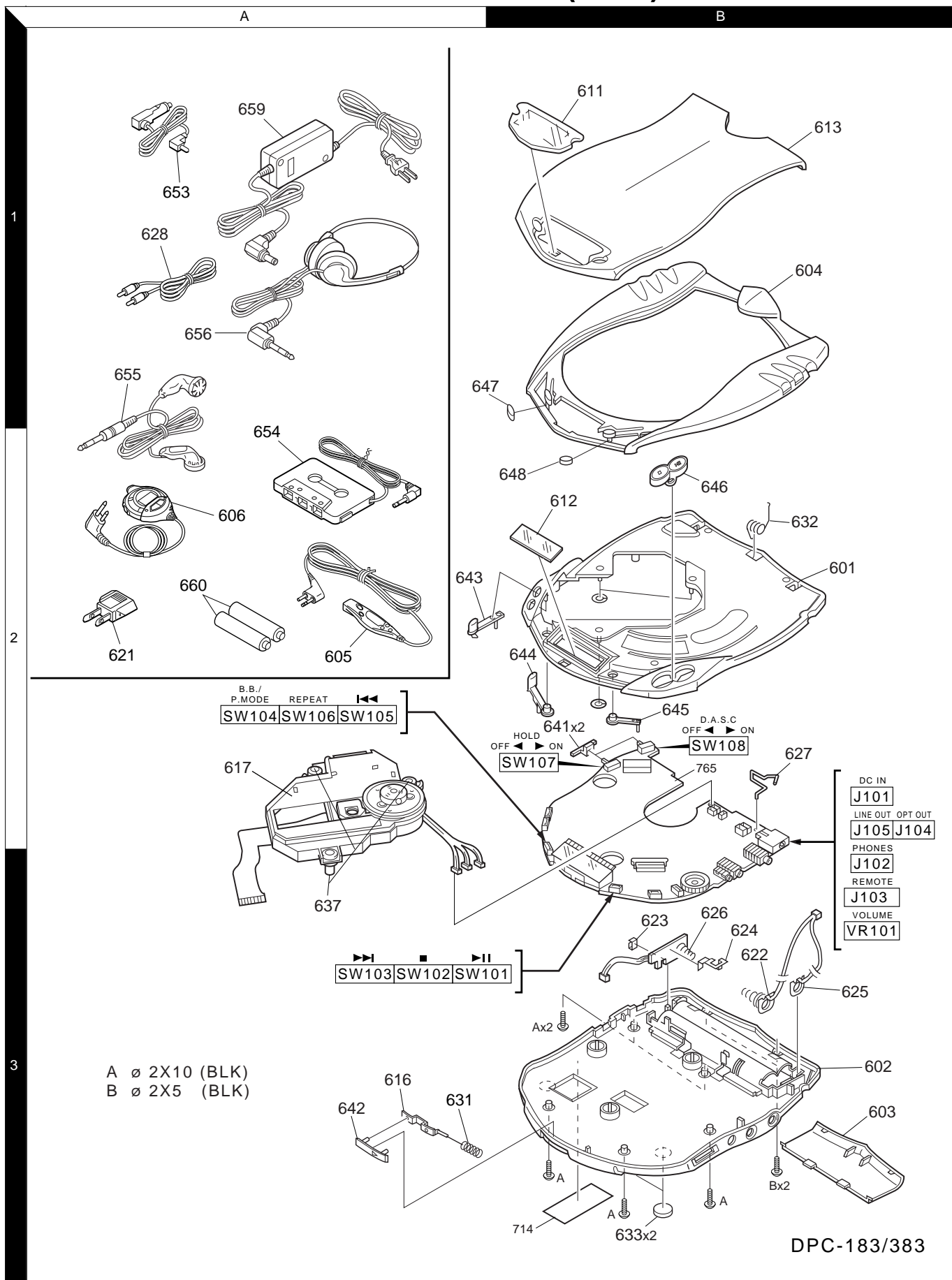


DPC-181/381/382

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

# DPC-181/183/381/382/383

## EXPLODED VIEW(UNIT)



A ø 2X10 (BLK)  
B ø 2X5 (BLK)

DPC-183/383

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

\* 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.

①

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
<b>DPC-181/183/381/382/383</b>						
601	1B	*	A02-XXXX-08	TOP CABINET DPC-181	M2	1
601	2B	*	A02-2805-08	TOP CABINET DPC-383	M	5
601	1B	*	A02-1375-08	TOP CABINET DPC-381	KPET	3
601	1B	*	A02-1383-08	TOP CABINET DPC-381	M	3
601	1B	*	A02-1384-08	TOP CABINET DPC-381	M2	3
601	1B	*	A02-1386-08	TOP CABINET DPC-382		4
601	1B	*	A02-1387-08	TOP CABINET DPC-181	KP	1
601	1B	*	A02-1388-08	TOP CABINET DPC-181	ETX	1
601	1B	*	A02-1389-08	TOP CABINET DPC-181	M	1
601	2B	*	A02-1393-08	TOP CABINET DPC-183	KP	2
601	2B	*	A02-1397-08	TOP CABINET DPC-383	ETX	5
601	2B	*	A02-1394-08	TOP CABINET DPC-183	ETX	2
601	2B	*	A02-1397-08	TOP CABINET DPC-383	KP	5
601	2B	*	A02-2804-08	TOP CABINET DPC-383	M2	5
601	2B	*	A02-2806-08	TOP CABINET DPC-183	M	2
602	3B	*	A02-1400-08	BOTTOM CABINET DPC-381	M2	3
602	3B	*	A02-1385-08	BOTTOM CABINET DPC-181	M	1
602	3B	*	A02-1390-08	BOTTOM CABINET DPC-181	KP	1
602	3B	*	A02-1392-08	BOTTOM CABINET DPC-181	ETX	1
602	3B	*	A02-1395-08	BOTTOM CABINET DPC-383	KP	5
602	3B	*	A02-1395-08	BOTTOM CABINET DPC-183/383	ETX	2,5
602	3B	*	A02-1396-08	BOTTOM CABINET DPC-183	M	2
602	3B	*	A02-1399-08	BOTTOM CABINET DPC-383	M2	5
602	3B	*	A02-1396-08	BOTTOM CABINET DPC-383	M	5
602	3B	*	A02-2803-08	BOTTOM CABINET DPC-381	KPETX	3
602	3B	*	A02-2803-08	BOTTOM CABINET DPC-382		4
602	3B	*	A02-XXXX-08	BOTTOM CABINET DPC-181	M2	1
602	3B	*	A02-2801-08	BOTTOM CABINET DPC-381	M	3
602	3B	*	A02-2802-08	BOTTOM CABINET DPC-183	KP	2
603	3B	*	A09-0389-08	BATTERY DOOR DPC-181		1
603	3B	*	A09-0392-08	BATTERY DOOR DPC-381/382		2,3
603	3B	*	A09-0394-08	BATTERY DOOR DPC-183/383		2,5
604	1B	*	A52-0328-08	CD DOOR DPC-181		1
604	1B	*	A52-0329-08	CD DOOR DPC-183/383	ETXMM2	2,5
604	1B	*	A52-0330-08	CD DOOR DPC-183	KP	2
604	1B	*	A52-0330-08	CD DOOR DPC-383	KP	5
604	1B	*	A52-0332-08	CD DOOR DPC-381		3
604	1B	*	A52-0333-08	CD DOOR DPC-382		4
605	2A	*	A70-1111-08	3KEY REMOCON DPC-181	M2	1
605	2A	*	A70-1111-08	3KEY REMOCON DPC-183	M	2
606	2A	*	A70-1190-05	LCD REMOCON DPC-381/383	M,M2	3,5
611	1B	*	B10-2416-08	DISPLAY LENS DPC-181/381/382		1,2,3
611	1B	*	B10-2430-08	DISPLAY LENS DPC-183		2
611	1B	*	B10-2433-08	DISPLAY LENS DPC-383		5
612	1B	*	B10-2417-08	INNER DISP LENS DPC-181/381/382		1,2,3
612	2B	*	B10-2431-08	INNER DISP LENS DPC-183/383		2,5
613	1B	*	B10-2438-08	CD DOOR LENS DPC-183	ETXM	2
613	1B	*	B10-2432-08	CD DOOR LENS DPC-183	KP	2
613	1B	*	B10-2434-08	CD DOOR LENS DPC-383	KP	5
613	1B	*	B10-2437-08	CD DOOR LENS DPC-383	ETXMM2	5
-		*	B46-0100-50	WARRANTY CARD	XTE	
-		*	B46-0332-03	WARRANTY CARD	K	
-		*	B46-0336-03	WARRANTY CARD	P	
-		*	B58-1519-08	CAUTION SHEET(HOLD)		

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 XXXX : No available the parts number.

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②

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
-		*	B60-3358-08	INST MANUAL(EN)DPC-181/381/382	KP	
-		*	B60-3359-08	INST MANUAL(EN)DPC-181/381/382	TMX	
-		*	B60-3360-08	INST MANUAL(SP)DPC-181/381/382	EM	
-		*	B60-3361-08	INST MANUAL(F) DPC-181/381/382	PE	
-		*	B60-3362-08	INST MANUAL(G) DPC-181/381/382	E	
-		*	B60-3363-08	INST MANUAL(D) DPC-181/381/382	E	
-		*	B60-3364-08	INST MANUAL(I) DPC-181/381/382	E	
-		*	B60-3365-08	INST MANUAL(C) DPC-181/381/382	M	
-		*	B60-3366-08	INST MANUAL(TA)DPC-181/381/382	M	
-		*	B60-3368-08	INST MANUAL(EN)DPC-383	KP	
-		*	B60-3369-08	INST MANUAL(EN)DPC-383	TMX	
-		*	B60-3370-08	INST MANUAL(SP)DPC-383	EM	
-		*	B60-3371-08	INST MANUAL(F) DPC-383	PE	
-		*	B60-3372-08	INST MANUAL(G) DPC-383	E	
-		*	B60-3373-08	INST MANUAL(D) DPC-383	E	
-		*	B60-3374-08	INST MANUAL(I) DPC-383	E	
-		*	B60-3375-08	INST MANUAL(C) DPC-383	M	
-		*	B60-3376-08	INST MANUAL(TA)DPC-383	M	
617	2A		D40-1547-08	CD MECHANISM KSM-542AAA		
621	2A		E03-0115-05	AC PLAG ADAPTER	MM2	
622	3B		E23-1737-08	BATTERY CONTACT PLATE(-)		
623	3B	*	E23-1755-08	BATTERY CONTACT SPRING PLATE+		
624	3B	*	E23-1756-08	RECHARGE CONTACT PLATE		
625	3B	*	E23-1758-08	BATTERY CONTACT PLATE(+)		
626	3B	*	E23-1759-08	BATTERY CONTACT SPRING(-)		
627	2B	*	E23-1757-08	RECHARGE CONTACT SPRING		
628	1A	*	E30-2782-05	AUDIO CABLE DPC-381 ET only	ET	
631	3A	*	G01-4037-08	OPEN KNOB SPRING(FOR HOOK)		
632	1B	*	G01-4038-08	CD DOOR SPRING DPC-181/381/382		1,2,3
632	2B	*	G01-4040-08	CD DOOR SPRING DPC-183/383		2,5
633	3B	*	G13-0542-08	RUBBER FOOT DPC-181/381/382		1,2,3
633	3B	*	G13-0562-08	RUBBER FOOT DPC-183/383		2,5
-		*	H25-1603-08	POLYBAG 178X178+60MM		
-		*	H50-2528-08	ITEM CARTON DPC-381	KP	3
-		*	H50-2529-08	ITEM CARTON DPC-381	E	3
-		*	H50-2530-08	ITEM CARTON DPC-381	T	3
-		*	H50-2531-08	ITEM CARTON DPC-381	M	3
-		*	H50-2532-08	ITEM CARTON DPC-381	M2	3
-		*	H50-2534-08	ITEM CARTON DPC-181	M2	1
-		*	H50-2535-08	ITEM CARTON DPC-181	TX	1
-		*	H50-2536-08	ITEM CARTON DPC-181	KP	1
-		*	H50-2537-08	ITEM CARTON DPC-181	E	1
-		*	H50-2538-08	ITEM CARTON DPC-181	M	1
-		*	H50-2539-08	ITEM CARTON DPC-382	KPE	4
-		*	H50-2540-08	ITEM CARTON DPC-382	TX	4
-		*	H50-2541-08	ITEM CARTON DPC-382	M	4
-		*	H50-2542-08	ITEM CARTON DPC-183	KP	2
-		*	H50-2543-08	ITEM CARTON DPC-183	E	2
-		*	H50-2544-08	ITEM CARTON DPC-183	M	2
-		*	H50-2546-08	ITEM CARTON DPC-383	KPTX	5
-		*	H50-2547-08	ITEM CARTON DPC-383	E	5
-		*	H50-2548-08	ITEM CARTON DPC-383	M	5
-		*	H50-2640-08	ITEM CARTON DPC-181	T	1

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PARTS LIST

DPC-181/183/381/382/383

\* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

3

Table with 6 columns: Ref. No, Add-res, New Parts, Parts No., Description, Desti-nation, Re-marks. Contains various electrical and mechanical parts lists.

ELECTRIC PARTS

Detailed table for Electric Parts with columns for part number, description, and specifications.

L : Scandinavia Y : PX(Far East, Hawaii) Y : AAFES(Europe) K : USA T : Europe X : Australia P : Canada E : Europe M : Other Areas R : Mexico G : Germany 5 : DPC-383 1 : DPC-181 3 : DPC-381 2 : DPC-183 4 : DPC-382

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4

Table with 6 columns: Ref. No, Add-res, New Parts, Parts No., Description, Desti-nation, Re-marks. Contains various electrical and mechanical parts lists.

L : Scandinavia Y : PX(Far East, Hawaii) Y : AAFES(Europe) K : USA T : Europe X : Australia P : Canada E : Europe M : Other Areas R : Mexico G : Germany 5 : DPC-383 1 : DPC-181 3 : DPC-381 2 : DPC-183 4 : DPC-382

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

7

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R170A			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R171A			RK73FB2A104J	CHIP R 100K J 1/10W		
R172A			RK73FB2A153J	CHIP R 15K J 1/10W		
R173A			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R174A			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R175A			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R177A			RK73FB2A473J	CHIP R 47K J 1/10W		
R178A			RK73FB2A104J	CHIP R 100K J 1/10W		
R179A			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R180A			RK73FB2A473J	CHIP R 47K J 1/10W		
R181A			RK73FB2A681J	CHIP R 680 J 1/10W		
R182A			RK73FB2A471J	CHIP R 470 J 1/10W		
R183A			RK73FB2A101J	CHIP R 100 J 1/10W		
R184A			RK73FB2A224J	CHIP R 220K J 1/10W		
R189A			RK73FB2A103J	CHIP R 10K J 1/10W		
R201A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R202A			RK73FB2A473J	CHIP R 47K J 1/10W		
R203A			RK73FB2A104J	CHIP R 100K J 1/10W		
R204A			RK73FB2A821J	CHIP R 820 J 1/10W		
R206A			RK73FB2A153J	CHIP R 15K J 1/10W		
R207A			RK73FB2A564J	CHIP R 560K J 1/10W		
R209A			RK73FB2A100J	CHIP R 10 J 1/10W		
R210A			RK73FB2A104J	CHIP R 100K J 1/10W		
R211A			RK73FB2A681J	CHIP R 680 J 1/10W		
R220A			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R221A			RK73FB2A471J	CHIP R 470 J 1/10W		
R222A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R301A			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R302A			RK73FB2A473J	CHIP R 47K J 1/10W		
R303A			RK73FB2A104J	CHIP R 100K J 1/10W		
R304A			RK73FB2A821J	CHIP R 820 J 1/10W		
R306A			RK73FB2A153J	CHIP R 15K J 1/10W		
R307A			RK73FB2A564J	CHIP R 560K J 1/10W		
R309A			RK73FB2A100J	CHIP R 10 J 1/10W		
R310A			RK73FB2A104J	CHIP R 100K J 1/10W		
R311A			RK73FB2A681J	CHIP R 680 J 1/10W		
R320A			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R321A			RK73FB2A471J	CHIP R 470 J 1/10W		
R322A			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R401A			RK73FB2A223J	CHIP R 22K J 1/10W		
R501A			RK73FB2A683J	CHIP R 68K J 1/10W		
R502A			RK73FB2A104J	CHIP R 100K J 1/10W		
VR101			R31-0086-08	VARIABLE RESISTOR		
SW101-106		*	S70-0053-08	TACT SWITCH		
SW107,108		*	S62-0064-08	SLIDE SWITCH		
SW109		*	S74-0082-08	MICRO SWITCH		
D1A			1SS355	DIODE		
D102A			1SS355	DIODE		
D104		*	SB10-03A3-BT	DIODE		
D111,112			IN-4001	DIODE		
D115			GMB01-BT	DIODE		
D115		*	SB10-03A3-BT	DIODE	M2	3,5
D116			GMB01-BT	DIODE		
D117			GMB01-BT	DIODE	M2	

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8

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D117			GMB01-BT	DIODE	M	3
D117			GMB01-BT	DIODE	MM2	5
D117			GMB01-BT	DIODE	M2	1
D119A-122A			1SS355	DIODE		
D201A			1SS355	DIODE		
D301A			1SS355	DIODE		
IC1			AN8806SB	IC(GD DIGITAL SERVO)		
IC2			AN8819NFB	IC		
IC3		*	MN171603HFC	IC		
IC4			MN662740RE	IC		
IC5		*	SM5859AF	IC		3,4,5
IC6		*	MN41V4400SJ-07	IC		3,4,5
IC6		*	MN41V4400SJ-08	IC		3,4,5
IC7			NJM2073M	IC(AF POWER AMP)		
Q4			2SC3330	TRANSISTOR		
Q5			2SA1317	TRANSISTOR		
Q6			2SC3330	TRANSISTOR		
Q102			2SB598F	TRANSISTOR		
Q104			2SA1317	TRANSISTOR		
Q106		*	2SC4481T	TRANSISTOR		
Q107		*	2SC4048-AC	TRANSISTOR		
Q108		*	2SD1805F	TRANSISTOR		
Q108		*	2SD1805G	TRANSISTOR		
Q109			2SC4204	TRANSISTOR		
Q110			2SA1317	TRANSISTOR		
Q111,112			2SB926T	TRANSISTOR		
Q113			2SA1317	TRANSISTOR		
Q201			2SC3330	TRANSISTOR		
Q202			2SD734F	TRANSISTOR		
Q203		*	2SC3860	TRANSISTOR		
Q205A			2SC3859	TRANSISTOR		
Q301			2SC3330	TRANSISTOR		
Q302			2SD734F	TRANSISTOR		
Q303		*	2SC3860	TRANSISTOR		
Q304			2SC3330	TRANSISTOR	M2	5
Q305A			2SC3859	TRANSISTOR		
J104		*	W02-2630-08	OPTICAL OUT 3.6MM(7 PINS)	M2	3,5

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## PARTS LIST

DPC-181/183/381/382/383

# DPC-181/183/381/382/383

## SPECIFICATIONS

### [ Format ]

System .....Compact disc digital audio system  
 Laser .....Semiconductor laser

### [ Audio ]

Frequency response .....20 Hz to 20 kHz,  $\pm 3$  dB  
 PHONES output level (16  $\Omega$ , 1 kHz ) .....10 mW + 10 mW  
 Line output/impedance .....0.6 Vrms/1 k $\Omega$   
 Digital output (Optical) \* .....-15dBm to ~ 21dBm (wave length 660 nm)

\* M2 type only except DPC-181.

### [ Power supply ]

External DC supply .....4.5V to 6 V DC  
 Rechargeable batteries (NB-88) x 2 or 4 .....DC 2.4 V  
 Commercially-available alkaline batteries (LR6/AA) x 2 or 4 .....DC 3 V

Battery life (continuous repeat playback)

(Figures inside parentheses show the performance when the D.A.S.C. is ON.)

Commercially-available alkaline batteries (LR6/AA) x 2 .....Approx. 10 (8) Hours (DPC-382/381/383)  
 Commercially-available alkaline batteries (LR6/AA) x 2 .....Approx. 10 Hours (DPC-181/183)  
 Commercially-available alkaline batteries (LR6/AA) x 4 .....Approx. 20 (17.5) Hours (DPC-382/381/383)  
 Commercially-available alkaline batteries (LR6/AA) x 4 .....Approx. 20 Hours (DPC-181/183)  
 Rechargeable batteries (NB-88) x 2 .....Approx. 4 (3) Hours (DPC-382/381/383)  
 Rechargeable batteries (NB-88) x 2 .....Approx. 4 Hours (DPC-181/183)  
 Rechargeable batteries (NB-88) x 4 .....Approx. 9 (6) Hours (DPC-382/381/383)  
 Rechargeable batteries (NB-88) x 4 .....Approx. 9 Hours (DPC-181/183)

Dimensions (W x H x D) .....138 mm x 30 mm x 157 mm  
 (5-7/16" x 1-3/16" x 6-3/16")

Dimensions (W x H x D) .....140 mm x 31 mm x 159 mm  
 (5-1/2" x 1-1/4" x 6-1/8")

Weight (net) .....270 g (9.5 oz): DPC-181/381/382

Weight (net) .....280 g (9.9 oz): DPC-183/383

### Note:

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



# DPC-181/183/381/382/383

**Note:**

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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