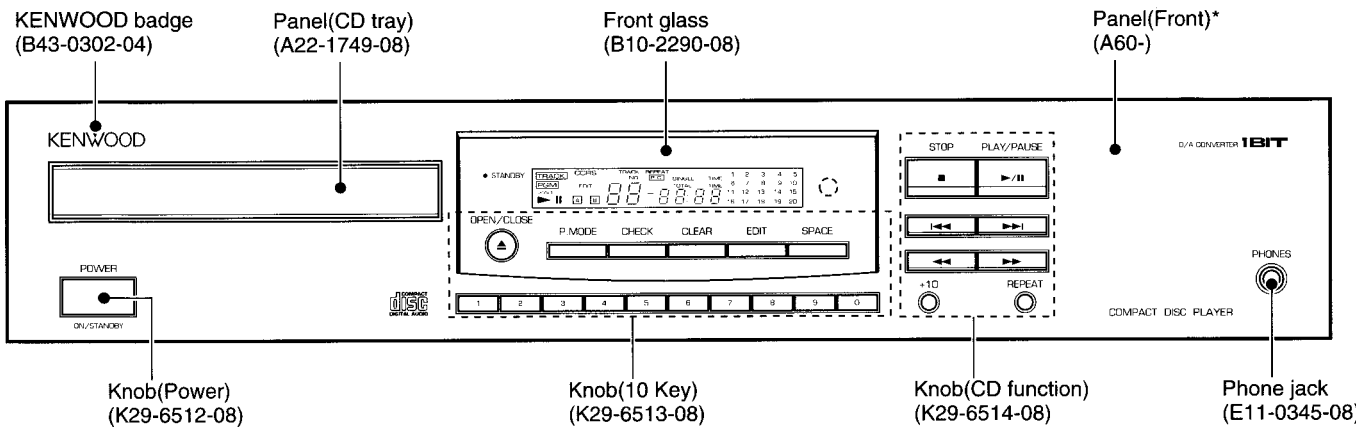
COMPACT DISC PLAYER

DP-1080/2080

SERVICE MANUAL

KENWOOD



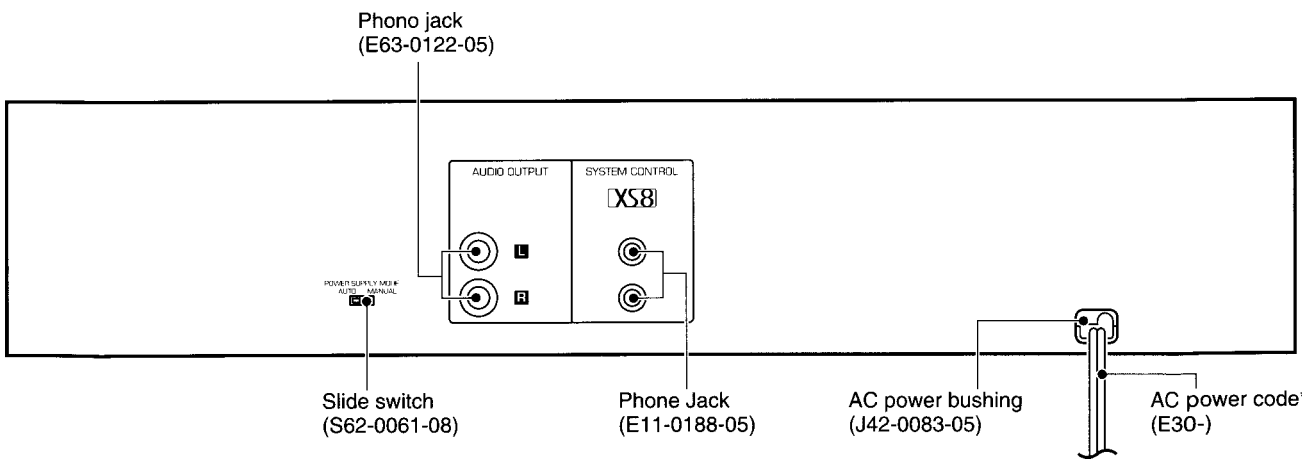


Illustration is DP-2080.

*** Refer to parts list on page 19.**

⚠ 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.

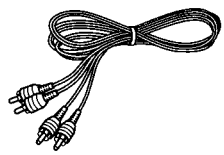
DP-1080/2080

CONTENTS / ACCESSORIES / CAUTIONS

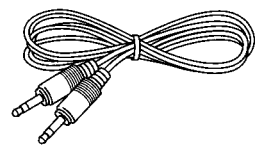
Contents

Accessories

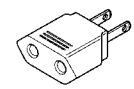
Audio cord .....(2)
(E30-0505-05)



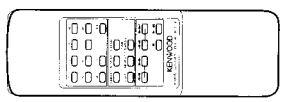
System control cord .....(1)
(E30-2733-05)



AC plug adaptor .....(1)
(E03-0115-08)

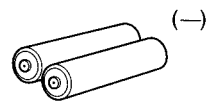


Remote control unit .....(1)
(A70-1108-08 :DP-2080 only)



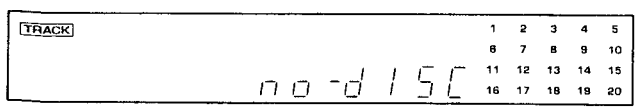
Battery cover (A09-0377-08)

Batteries .....(2)



Cautions

Note related to transportation and movement
Before transporting or moving this unit, carry out the following operations.
1. Turn the power ON but do not load a disc.
2. Wait a few seconds and verify that the display shown appears. Wait further a few seconds.
3. Turn the power OFF.



Beware of condensation
When water vapor comes into contact with the surface of cold material, water drops are produced. If condensation occurs, correct operation may not be possible, or the unit may not function correctly. This is not a malfunction, however, and the unit should be dried. (To do this, turn the POWER switch ON and leave the unit for several hours.)

Be especially careful in the following conditions:
- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

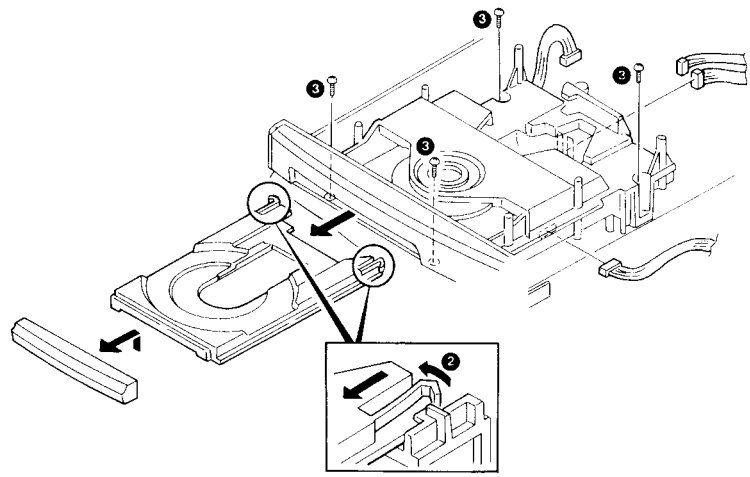
DISASSEMBLY FOR REPAIR

CD mechanism section

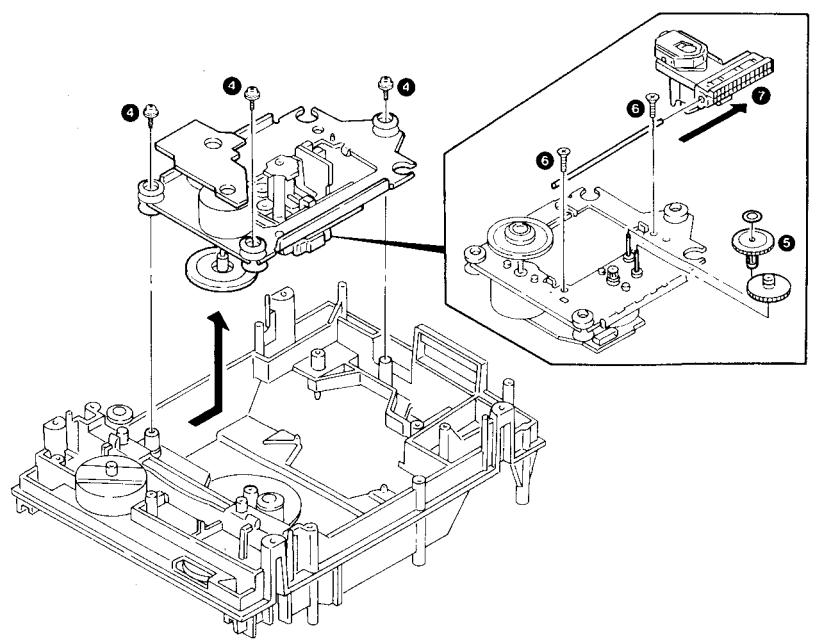
1. How to remove pick-up

* Remove the metallic cabinet before disassembling.

1. Press the OPEN/CLOSE key, then open the tray and remove the tray panel.
2. Remove the tray stopper (❷) from the mechanism, then remove the tray.
3. Remove the 4 screws (❸), then remove the CD mechanism.



4. Remove the 3 screws (❹), then remove the pick-up ass'y.
5. Remove the two gears (❺), then remove the 2 screws (❻).
6. Remove the pick-up (❼) from the rod.

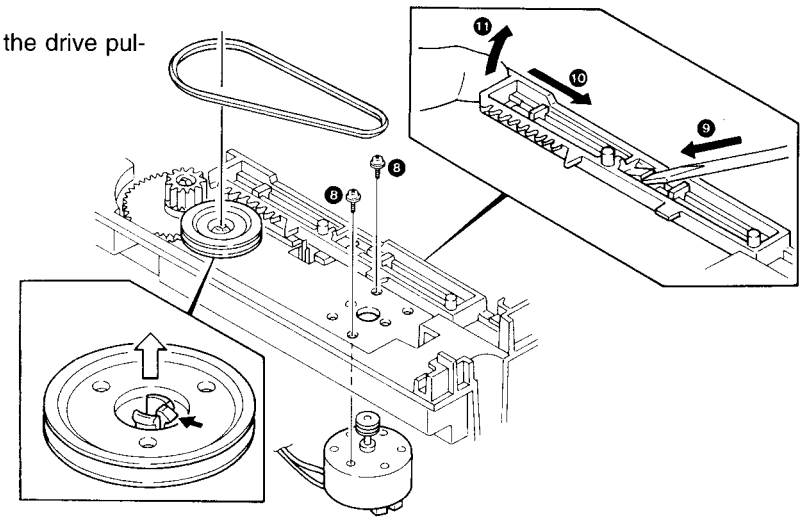


DP-1080/2080

DISASSEMBLY FOR REPAIR

2. How to remove loading motor and gear.

1. Remove the drive belt, then remove the 2 screws (❽), and remove the loading motor.
2. While pulling the hooker (❾) of the rack gear by the screw driver push the rack gear fully rightwards (❿), then remove the rack gear (⓫).
3. Push the hooker of the drive pulley, then remove the drive pulley and tray gear.

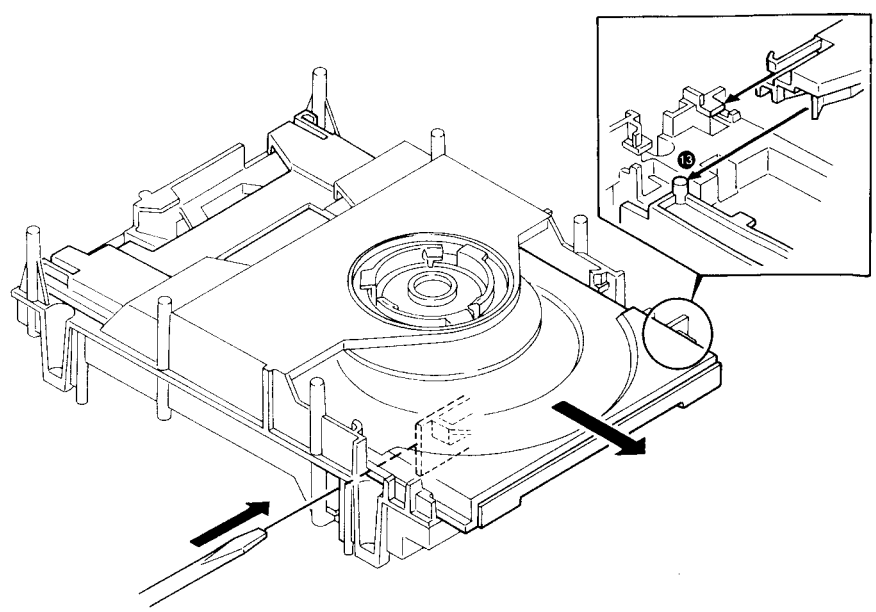


3. How to mount tray

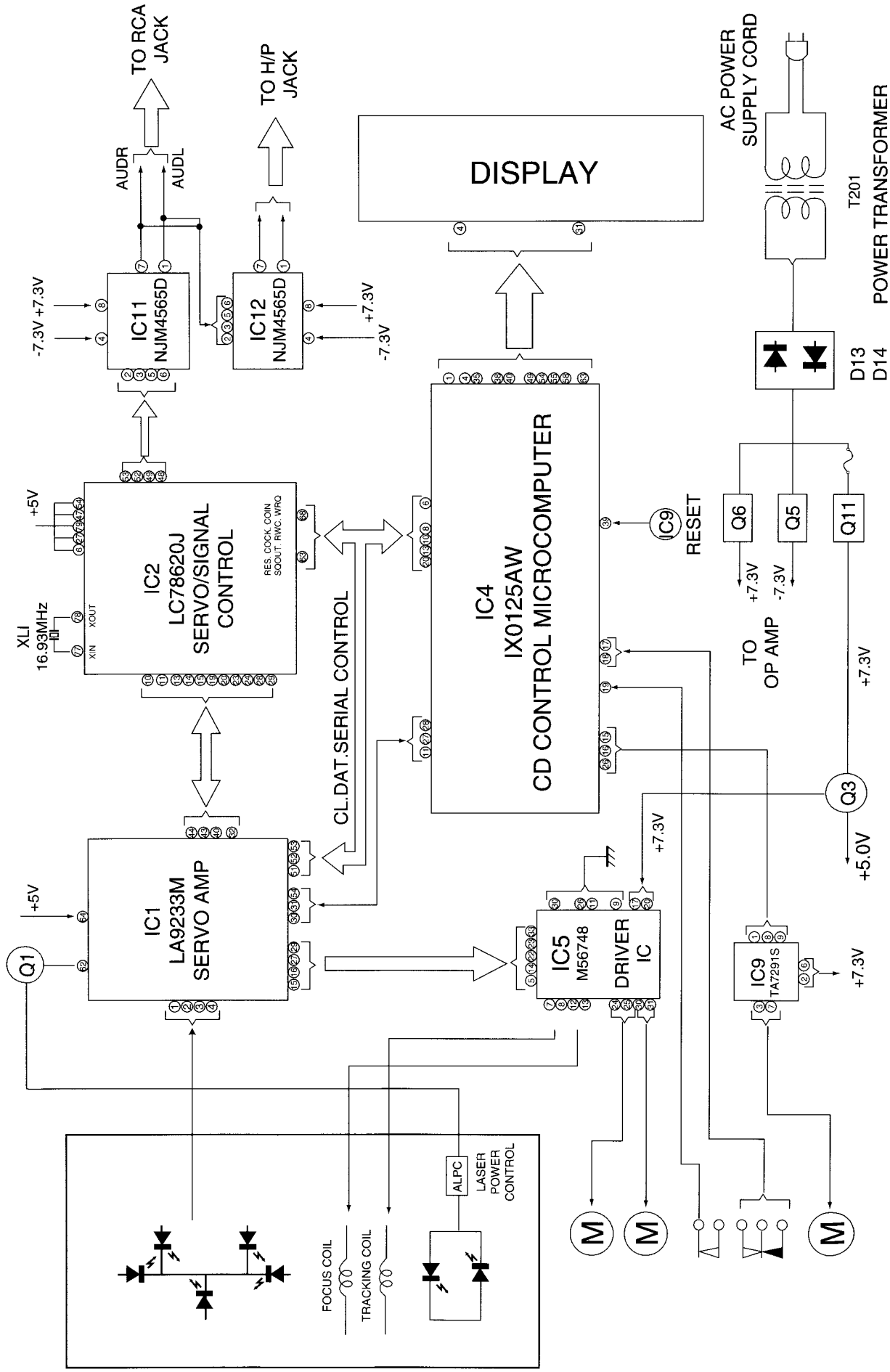
1. Set the tray-back-groove to the boss of rack gear (⓭).

4. How to open tray when tray not come out.

1. Insert the screw driver to left side hole of mechanism ass'y.
2. While pushing the rack gear fully right wards, then the tray pull.



BLOCK DIAGRAM

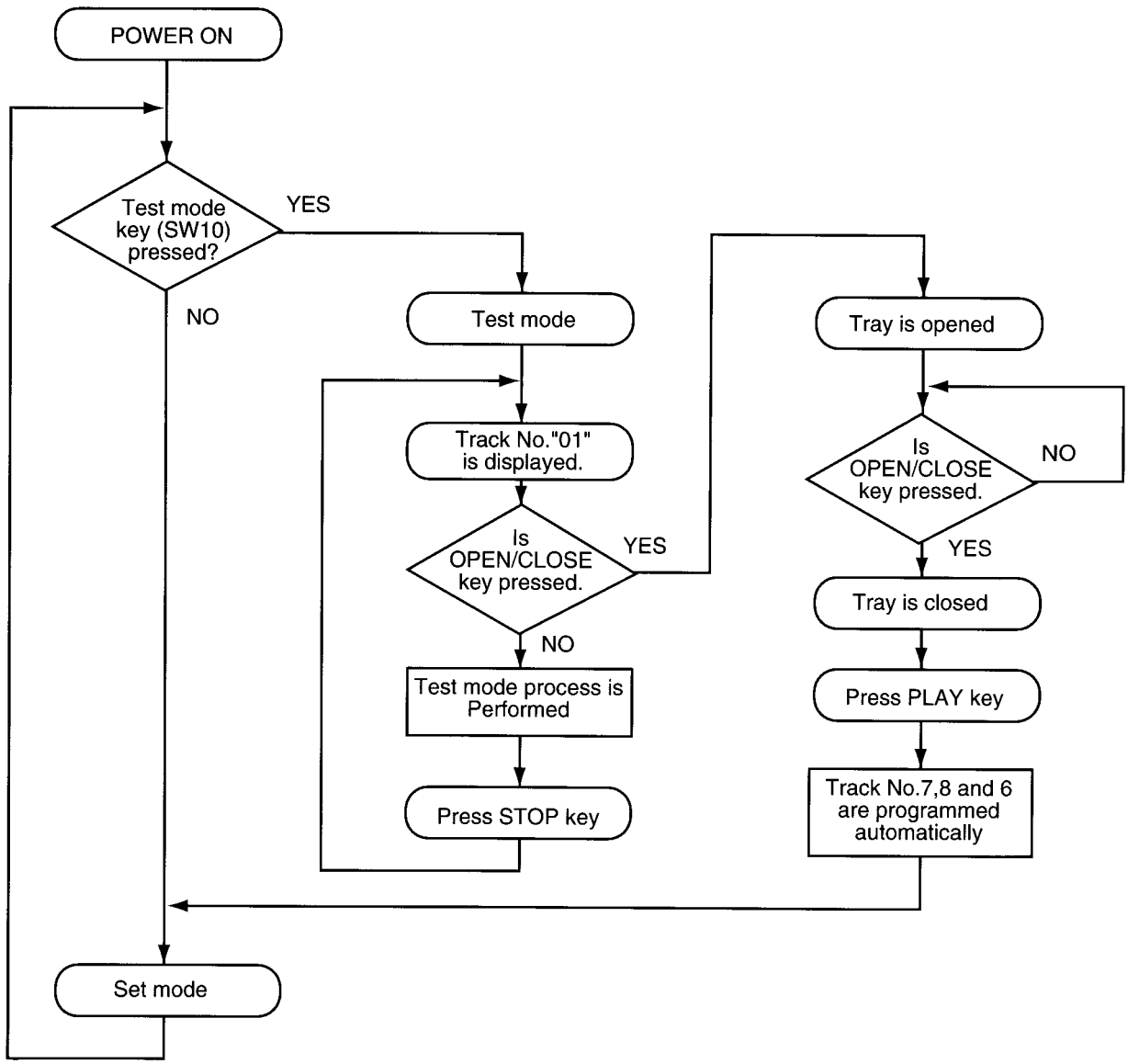


CIRCUIT DESCRIPTION

1. Test mode

1-1. Setting the test mode

The microprocessor built in the unit can be put to TEST MODE by just pressing the TEST MODE switch (SW10, on PCB) when set to power on.



CIRCUIT DESCRIPTION

2. Microprocessor : IX0125(IC4)

2-1. Pin function

No.	Pin name	I/O	Function
1~4	g. f, b, a	O	Fluorescent indicator segment.
5	16/8 bit	—	+5V
6	CQCK	O	DSP IC CQCK terminal.
7	COIN	O	DSP IC COIN terminal.
8	SQ OUT	I	DSP IC SQ OUT terminal.
9	RMC	—	GND
10	WRQ	I	DSP IC WRQ terminal.
11	DRF	I	LA9233M DRF terminal.
12	PWP CK	I	Power supply mode state check signal.
13	RWC	O	DSP IC RWC terminal.
14	MUT	—	No connected.
15	LOADING CLOSE	O	Tray close signal output.
16	LOADING OPEN	O	Tray open signal output.
17	OPEN SW	I	Tray open detection signal input.
18	CLOSE SW	I	Tray close detection signal input.
19	PU-IN SW	I	Pick up limit signal input.
20	$\overline{\text{RES}}$	O	DSP IC reset signal output.
21	BUSY	I/O	System control signal (BUSY).
22	SDATA	I/O	System control signal (DATA).
23	HS	O	High speed control.
24	PWR ON/OFF	—	No connected.
25	LASER ON/OFF	O	Laser ON/OFF control signal output.
26	TRY L/H	I	Feed motor ON/OFF signal input.
27	SLD +	O	Feed motor control signal output.
28	SLD-	O	Feed motor control signal output.
29	PPO	—	No connected.
30	X1	I	Oscillator signal input.
31	X2	O	Oscillator signal output.
32	Vss	—	GND
33	XT1	—	GND
34	XT2	—	No connected.
35~38	P50~P53	I	Key input signal.
39	$\overline{\text{RESET}}$	I	Reset signal input.
40~49	G10~G1	O	Fluorescent indicator tube grid signal output.
50~53		—	No connected.
54, 55	k, j	O	Fluorescent indicator segment.
56	Vload	—	FL pull down resistor power supply (-30V).
57	Vpre	—	FL driver circuit power supply (-6V).
58~63	i, l, h, d, e, c	O	Fluorescent indicator segment.
64	Vdd	—	Power supply (+5V).

CIRCUIT DESCRIPTION

2-2. Key and functions valid in test mode

No.	Input key	Function	Track No. display
1	PLAY	(1) Focusing servo .....ON (2) Tracking servo .....ON (3) Feed servo.....ON	TRACK NO. 05 ↓ Displayed for a few seconds after completion (1). (2) and (3). ↓ Disc Track No. 1 is displayed.
2	CHECK or Number "0" key	(1) Focusing servo .....ON (2) Tracking servo .....OFF (3) Feed servo.....OFF	TRACK NO. 03
3	CLEAR	(1) Focusing servo .....ON (2) Tracking servo .....ON (3) Feed servo.....OFF	TRACK NO. 04
4	STOP	(1) Focusing servo .....OFF (2) Tracking servo .....OFF (3) Feed servo.....OFF	TRACK NO. 01
5	►►	In the STOP mode. moves the pickup slightly toward the outer position of disc. When feed servo is ON, sets the track gain to "H".	—
6	◄◄	In the STOP mode. moves the pickup slightly toward the inner position of disc. When feed servo is ON, sets the track gain to "L".	—
7	UP ►►I	Turns all FL display lamps ON.	TRACK NO. 88
8	DOWN I◄◄	Turns all FL display lamps OFF. "TRACK NO." is lighted.	TRACK NO.
9	+10	Playback Track No. 1 under High-speed mode (If not open tray, SPACE key function is available.)	—
10	SPACE	Set playback mode to High-speed or Normal.	—
11	P.MODE	Track No. 7,8 and 6 (High-speed) are programmed and playback from Track No. 7. The test mode is canceled.	—
12	OPEN/CLOSE	When the tray is opened then closed. Track No. 7,8 and 6 are programmed and set is in STOP mode. The test mode is canceled.	TRACK NO. 01
13	Numeric key (1~9)	Jumps tracks as shown below.	—
14	REPEAT	(1) Tray .....Opened (2) Laser.....ON The REPEAT function is canceled when the tray is closed by pressing the tray. "REPEAT" figures is lighted.	TRACK NO. 02

Key	1	2	3	4	5
Number of tracks	1	4	128	512	1000
Direction	Outer				
Key	6	7	8	9	
Number of tracks	1	4	128	512	
Direction	Inner				

REPEAT mode : Press "REPEAT" key → Press "OPEN/CLOSE" key → Press "REPEAT" key...

ADJUSTMENT

CD section

Since this CD system incorporates the following automatic adjustment function, when the pickup is replaced, it is not necessary to readjust it.

Since this CD unit does not need adjustment, the combination of PWB and laser pickup unit is not restricted.

•Automatic adjustment item

1. Focus offset (Fig.1)
2. Tracking offset (Fig.2)
3. E/F balance (Tracking error balance) (Fig.3)
4. RF level AGC function (HF level : constant)
5. RF level automatic follow-up of the tracking gain

This automatic adjustment is performed each time a disc is changed. Therefore, each disc is played back using the optimal settings.

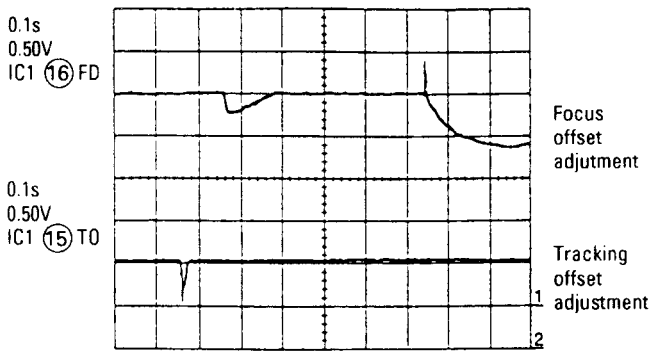


Fig.1

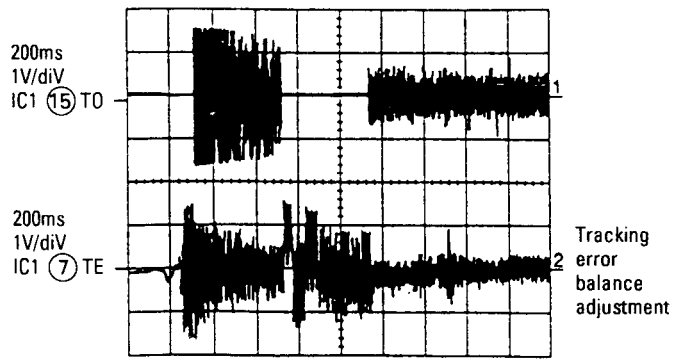


Fig.3

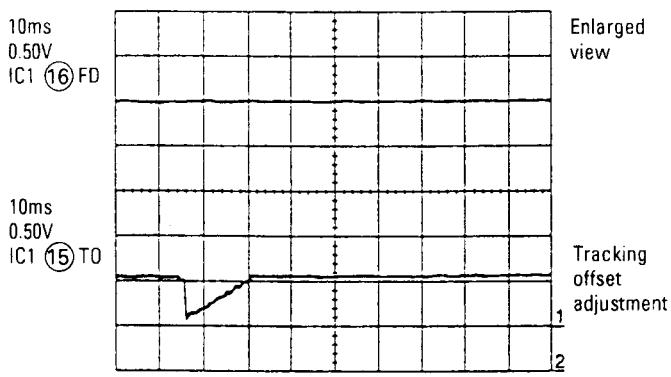


Fig.2

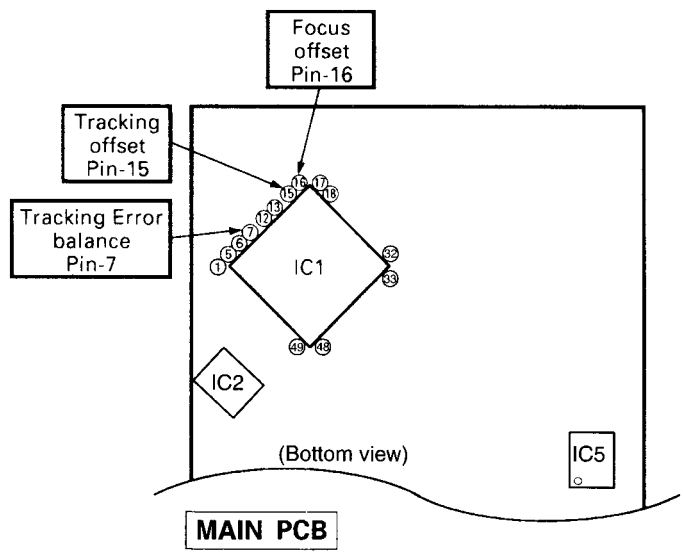
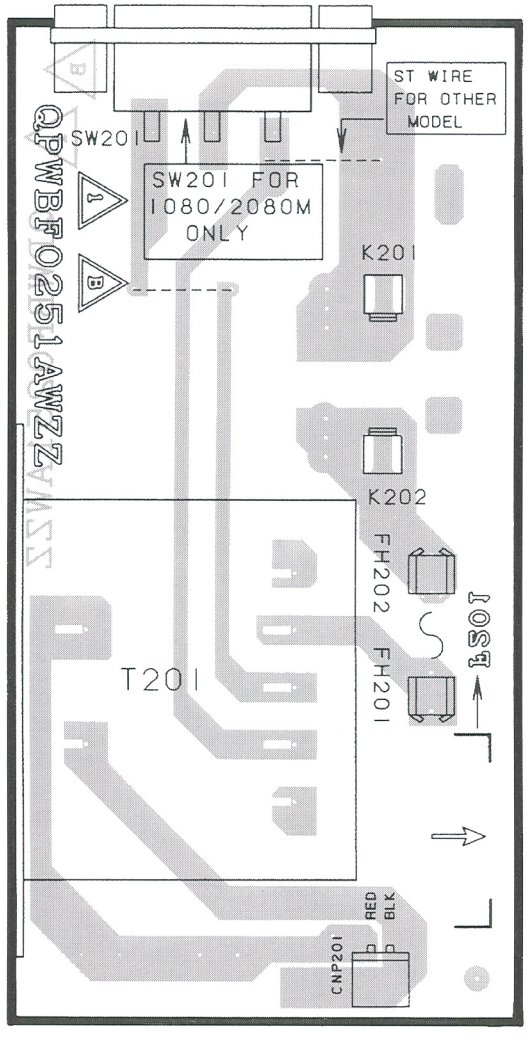
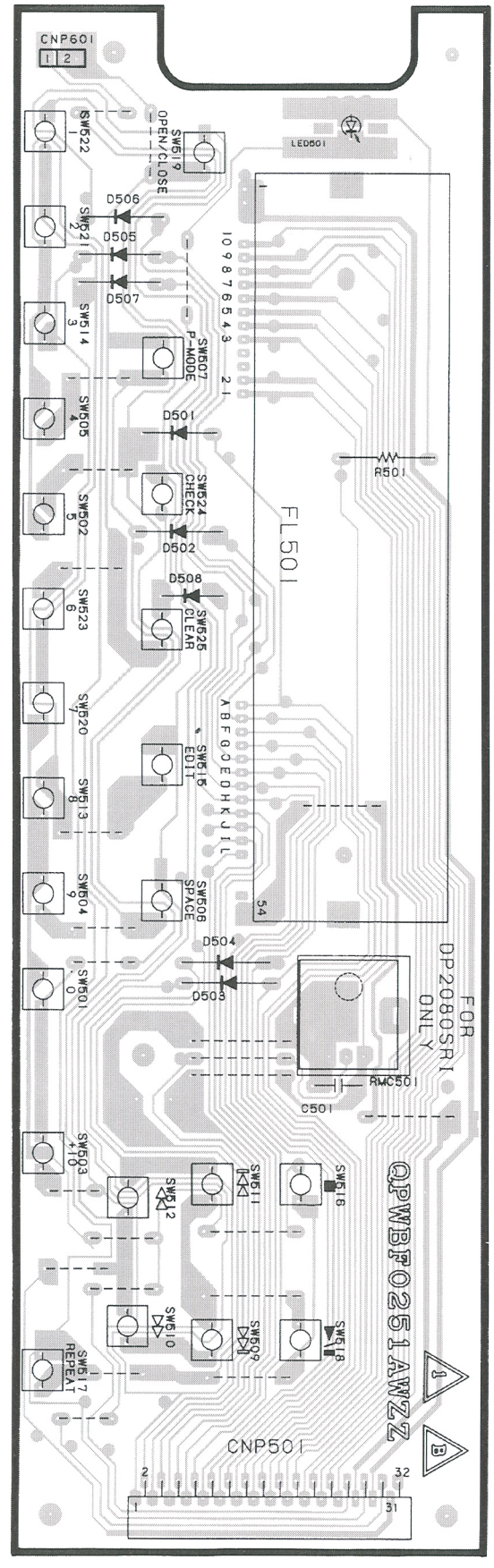
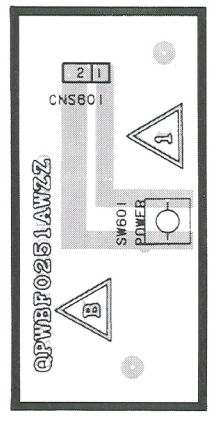


Fig.4 Checking points

PC BOARD(COMPONENT SIDE VIEW)

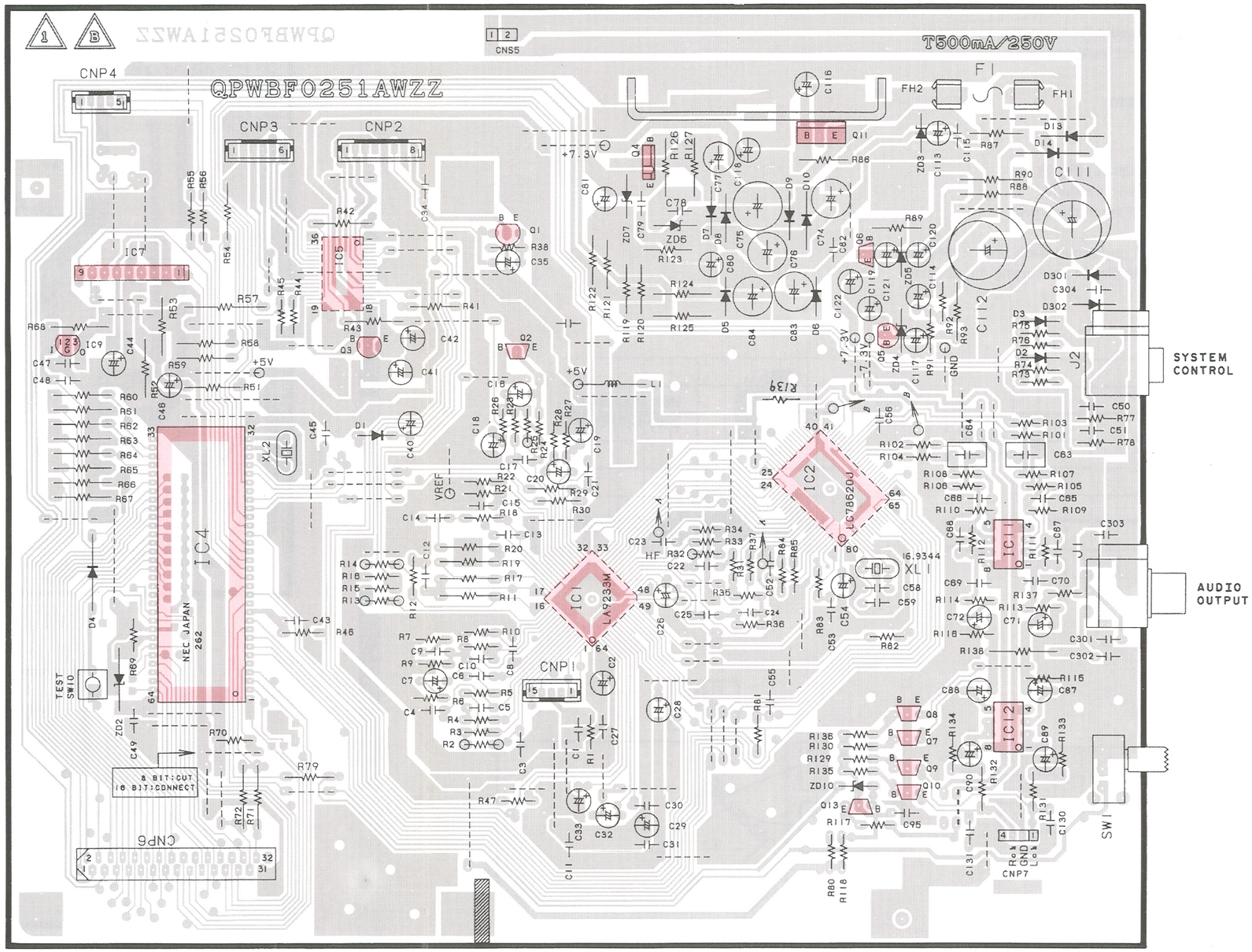


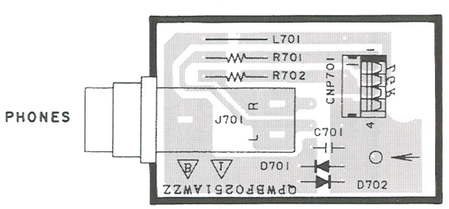




Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD(COMPONENT SIDE VIEW)





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

CD SERVO UNIT

IC1 : LA9233M
IC2 : LC78620J
IC4 : IX0125AWZZ
IC5 : M56748FP
IC7 : TA7291S
IC9 : KIA7036
IC11,12 : NJM4565D

CD PICKUP UNIT

PICKUP
LTOH30M1
LD
MON
K
F
B
E
A
C
LD GND
VR1A
C2A 1u16
C3A 2200P
R2A 1M
C4A 2200P
R3A 1M
CNP2A
CNP1A
CNS1
CNP1
ACTUATOR
TR-
FO-
FO+
TR+

Q1,5 : 2SA1266(GR)
Q2,13 : KRC107M
Q3 : KTA127(Y)
Q4 : 2SB1237R3
Q6~10 : KTC3199(GR)
Q11 : 2SD2012

ZD2,4,5 : MTZJ9.1A
ZD3 : MTZJ7R5BT
ZD6 : MTZJ30BT
ZD7 : MTZJ6R8B
ZD10 : MTZJ8R2AT

D1~9,301,302,
701,702 : 1SS133
D10,13,14 : RL104T

IC1 RF SERVO

IC5 BTL DRIVER
1CH
STAND BY
CH1
CH2
CH3
CH4
TSO

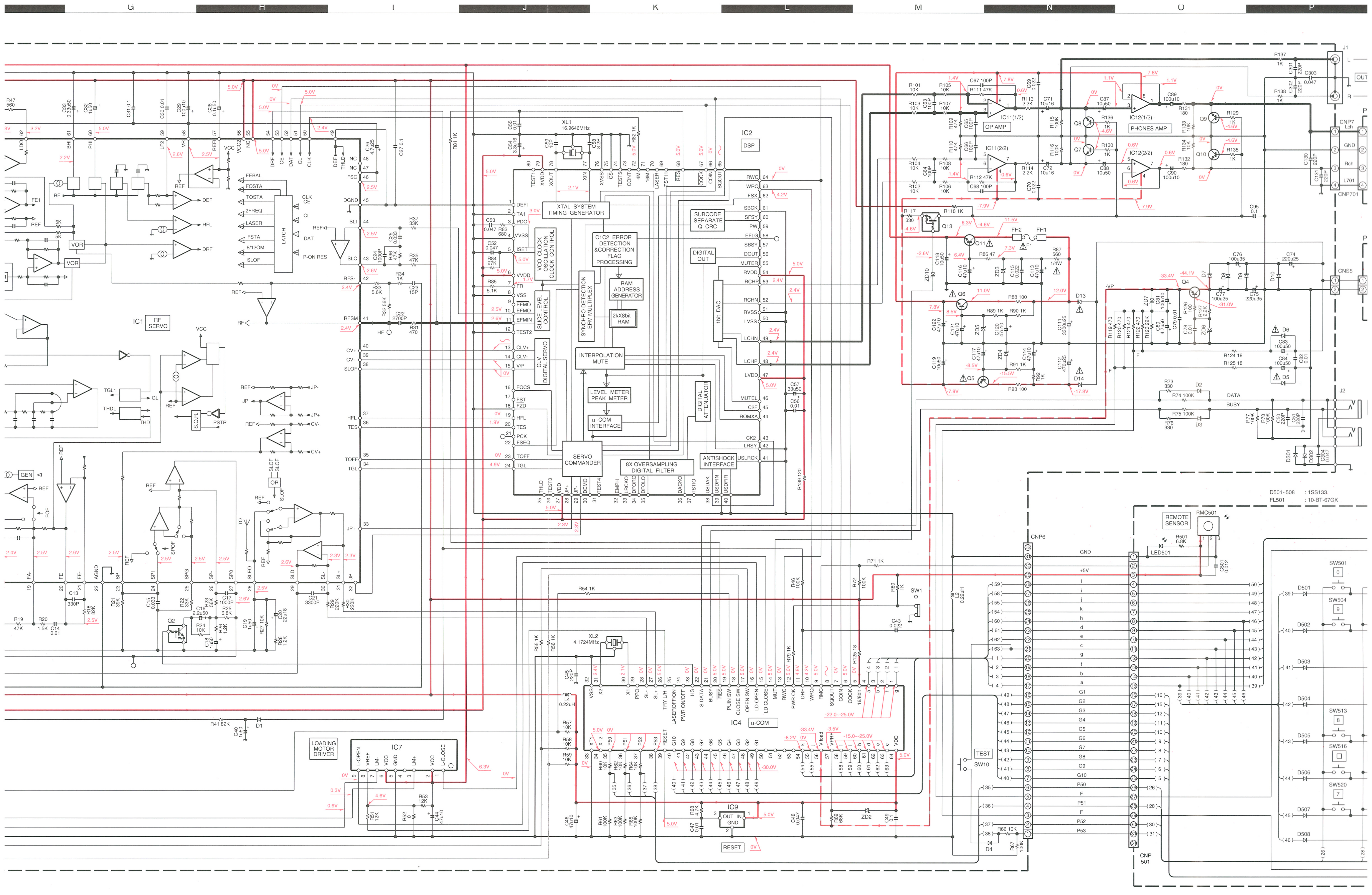
CNS2
CNP2
TR-
TR+
FO+
FO-
GND
PD
VR
LD ON

MOTOR PCB
DISC
SLIDE
PU-IN
CNS3
CNP3
SP+
SP-
SL+
SL-
PU-IN

LOADING
M3
CLOSE SW
CLOSE
SW2
OPEN
CNS4
CNP4

LOADING MOTOR DRIVER
IC7
L-OPEN
VREF
LM-
VCC
GND
LM+
VCC
L-CLOSE

XTAL SYSTEM TIMING GENERATOR
VCO CLOCK OSCILLATION CLOCK CONTROL
SYNCHRO DETECTION EFM MULTIPLEX
SLICE LEVEL CONTROL
CLV DIGITAL SERVO
INTERPOLAT MUTE
SERVO COMMANDER
LATCH
XL1 16.9646MHz
XL2 4.1724MHz


G
H
I
J
K
L
M
N
O
P
IC1 RF SERVO
IC2 DSP
XTAL SYSTEM TIMING GENERATOR
C1C2 ERROR DETECTION &CORRECTION FLAG PROCESSING
SUBCODE SEPARATE Q CRC
DIGITAL OUT
RAM ADDRESS GENERATOR
2kX8bit RAM
VCO CLOCK OSCILLATION CLOCK CONTROL
SLICE LEVEL CONTROL
SYNCHRO DETECTION EFM MULTIPLEX
CLV DIGITAL SERVO
INTERPOLATION MUTE
LEVEL METER PEAK METER
u-COM INTERFACE
SERVO COMMANDER
8X OVERSAMPLING DIGITAL FILTER
ANTISHOCK INTERFACE
DIGITAL ATTENUATOR
1bit DAC
XL1 16.9646MHz
XL2 4.1724MHz
IC4 u-COM
IC7
LOADING MOTOR DRIVER
IC9
RESET
TEST
SW10
SW1
IC11(1/2) OP AMP
IC11(2/2)
IC12(1/2) PHONES AMP
IC12(2/2)
J1
J2
CNP7 Lch GND Rch L701
CNP701
CNS5
CNP6
CNP 501
REMOTE SENSOR
RMC501
LED501
D501~508 : 1SS133
FL501 : 10-BT-67GK
DATA
BUSY
GND
+5V

L M N O P Q R S T U

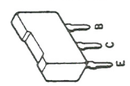
SIGNAL LINE
GND LINE
+B LINE
-B LINE

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
a	▷	A	a	a	a	a	a	a	1	3
b	▯▯	B	b	b	b	b	b	b	6	8
c	SPACE	-	c	c	c	c	c	c	11	13
d	-	-	d	d	d	d	d	d	16	18
e	PGM	MULTI EDIT	e	e	e	e	e	e	2	4
f	TRACK	AI EDIT	f	f	f	f	f	f	7	9
g	-	EDIT	g	g	g	g	g	g	12	14
h	-	-	-	-	-	-	-	-	17	19
i	-	CCRS	-	TRACK NO.	▬	TOTAL	TIME(i)	-	-	5
j	-	-	-	-	P.C.	SINGLE	TIME(j)	-	-	10
k	-	-	-	-	REPEAT	:	-	-	-	15
l	-	-	-	-	-	-	-	-	-	20

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

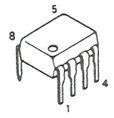
The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during PLAY unless otherwise specified; The value shown in ( ) is the voltage measured at the moment of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

2SB1237R3

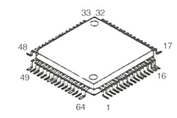


2SD2012

NJM4565D



LA9233M



DP-1080/2080(M)

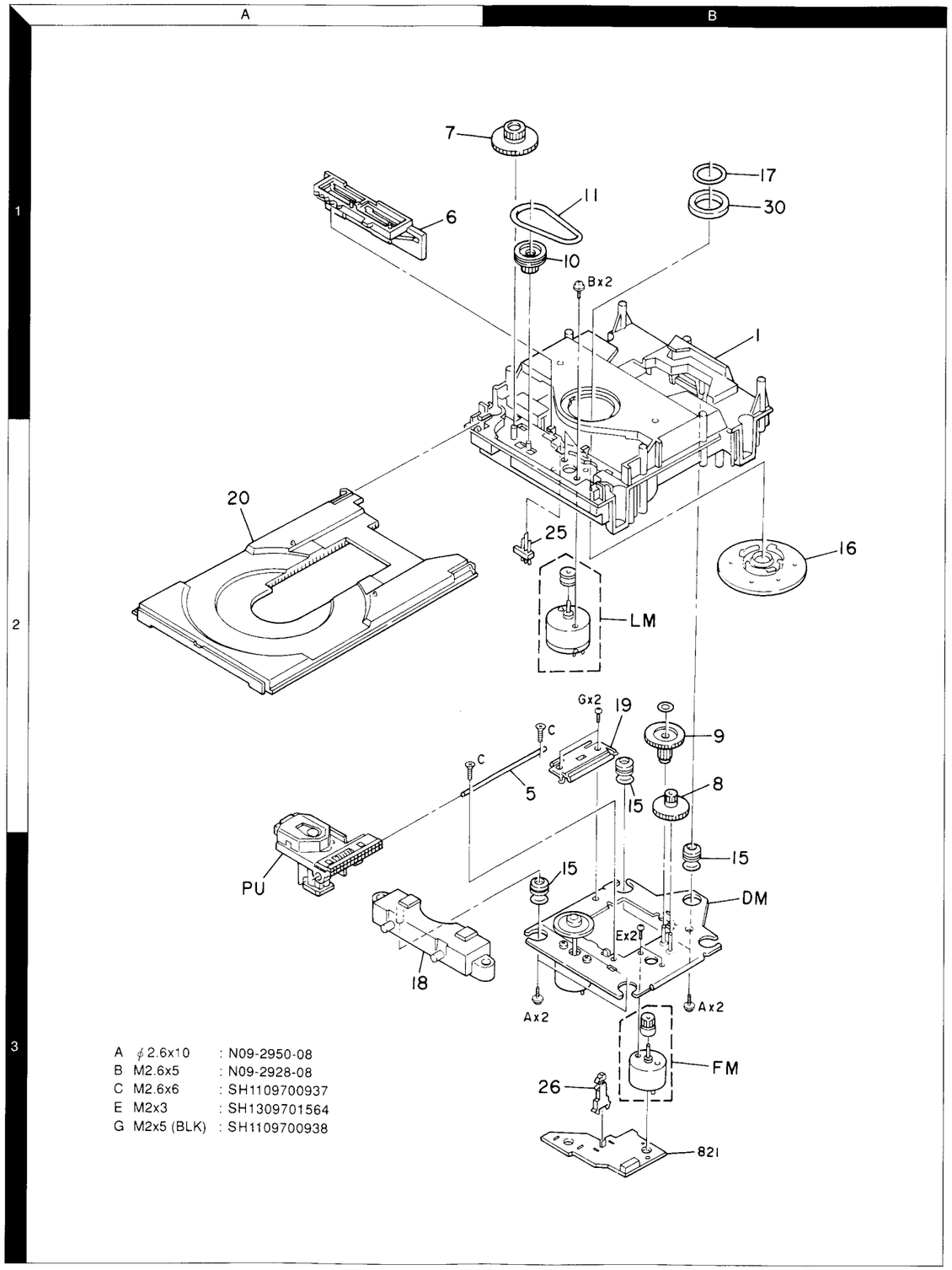
Y22-4512-70

DP-1080/2080

KENWOOD

DP-1080/2080

EXPLODED VIEW (MECHANISM)

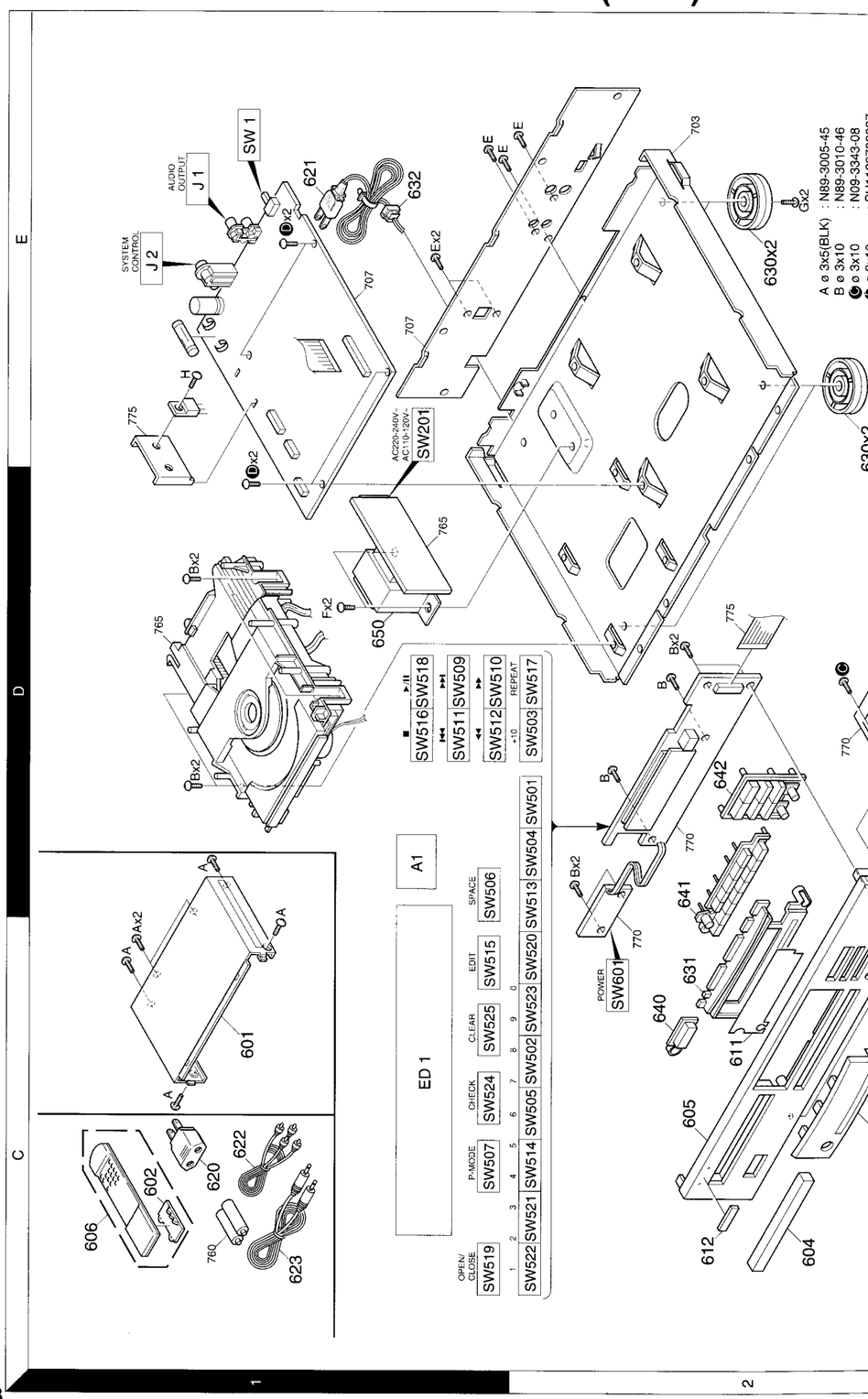


A	ϕ2.6x10	: N09-2950-08
B	M2.6x5	: N09-2928-08
C	M2.6x6	: SH1109700937
E	M2x3	: SH1309701564
G	M2x5 (BLK)	: SH1109700938

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

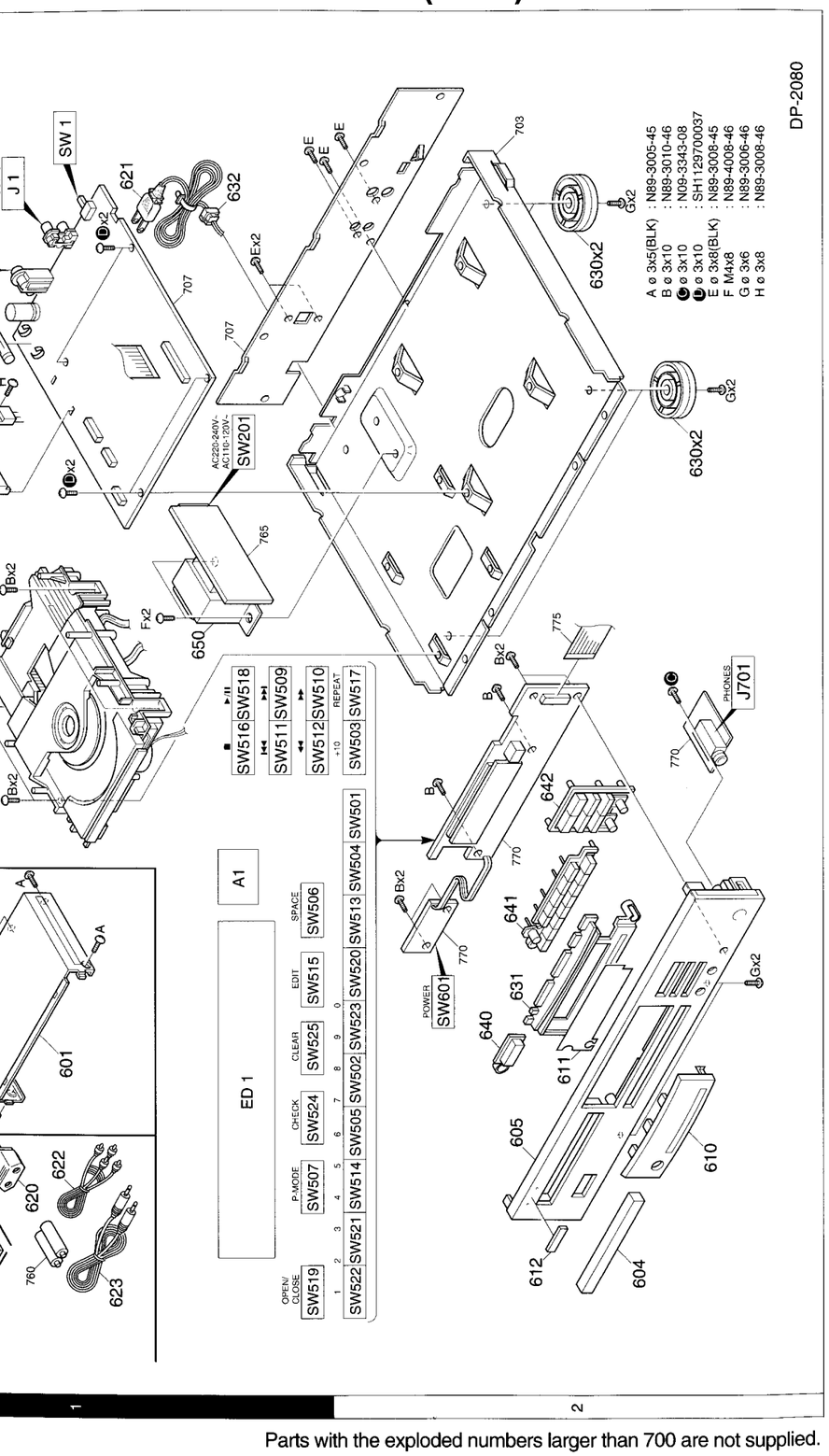
DP-1080/2080

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 ar

EXPLODED VIEW (UNIT)



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

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
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❷

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C14			CK45FB1H103K	CERAMIC 0.010UF K		
C15			CK45FB1E333K	CERAMIC 0.033UF K		
C16			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C17			CK45FB1H102K	CERAMIC 1000PF K		
C18 ,19			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C20			CE04KW1C220M	ELECTRO 22UF 16WV		
C21			CK45FB1H332M	CERAMIC 3300PF M		
C22			CK45FB1H272M	CERAMIC 2700PF M		
C23			CC45FSL1H150J	CERAMIC 15PF J		
C24			CK45FB1E102K	CERAMIC 1000PF K		
C25			CK45FB1E333K	CERAMIC 0.033UF K		
C26			CE04KW1E4R7M	ELECTRO 4.7UF 25WV		
C27			CK45FB1C103K	CERAMIC 0.010UF K		
C28			CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C29			CE04KW1A101M	ELECTRO 100UF 10WV		
C30			CK45FB1H103K	CERAMIC 0.010UF K		
C31			CK45FB1H104K	CERAMIC 0.10UF K		
C32			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C33			CE04KW1HR33M	ELECTRO 0.33UF 50WV		
C34			CK45FB1H103K	CERAMIC 0.010UF K		
C35			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C40			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C41			CE04KW1A101M	ELECTRO 100UF 10WV		
C42			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C43			CK45FB1E223K	CERAMIC 0.022UF K		
C44			CE04KW1A470M	ELECTRO 47UF 10WV		
C45			CC45FSL1H221J	CERAMIC 220PF J		
C46			CE04KW1A470M	ELECTRO 47UF 10WV		
C47			CK45FB1H103K	CERAMIC 0.010UF K		
C48			CK45FB1E473K	CERAMIC 0.047UF K		
C49			CK45FB1C104K	CERAMIC 0.10UF K		
C50 ,51			CC45FSL1H221J	CERAMIC 220PF J		
C52 ,53			CK45FB1E473K	CERAMIC 0.047UF K		
C54			940-3231-05	ELECTRO 3.3UF 25WV		
C55 ,56			CK45FB1H103K	CERAMIC 0.010UF K		
C57		*	CE04KW1H221M	ELECTRO 220UF 50WV		
C58			CC45FSL1H8R2D	CERAMIC 8.2PF D		
C59			CK45FSL1H100J	CERAMIC 10PF J		
C63 ,64			091-1544-08	MYLAR 100PF 63WV		
C65 -68			CK45FB1H101K	CERAMIC 100PF K		
C69 ,70			CK45FB1E223K	CERAMIC 0.022UF K		
C71 ,72			CE04KW1C100M	ELECTRO 10UF 16WV		
C74			CE04KW1V221M	ELECTRO 220UF 35WV		
C75			CE04KW1V101M	ELECTRO 100UF 35WV		
C76						
C77			CE04KW1E101M	ELECTRO 100UF 25WV		
C78 ,79			CK45FB1H103K	CERAMIC 0.010UF K		
C80			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C81			CE04KW1A101M	ELECTRO 100UF 10WV		
C82			CK45FB1H103K	CERAMIC 0.010UF K		
C83 ,84			CE04KW1H101M	ELECTRO 100UF 50WV		
C87 ,88			CE04KW1H100M	ELECTRO 10UF 50WV		
C89 ,90			CE04KW1A101M	ELECTRO 100UF 10WV		
C95			CK45FB1H103K	CERAMIC 0.010UF K		
C111			CE04KW1E332M	ELECTRO 3300UF 25WV		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
				DP-1080/2080		
601	1C	*	A01-3379-08	METALLIC CABINET		
602	1C	*	A09-0377-08	BATTERY COVER (FOR RC-P0202)		
604	2C	*	A22-1749-08	PANEL (CD TRAY)		
605	2C	*	A60-1027-08	PANEL (FOR DP-2080)		
605	2C	*	A60-1028-08	PANEL (FOR DP-1080)		
606	1C	*	A70-1108-08	REMOTE CONT(RC-P0202 FOR 2080)		
610	2C	*	B10-2290-08	FRONT GLASS		
611	2C	*	B11-0340-08	COLOR FILTER		
612	2C	*	B43-0302-04	KENWOOD BADGE		
-		*	B60-2687-08	INSTRUCTION MANUAL(ENGLISH)	T	
-		*	B60-2688-08	INSTRUCTION MANUAL(G,D,I,S,F)	E	
-		*	B60-2689-08	INSTRUCTION MANUAL(ENG,CHINA)	C	
-		*	B60-2690-08	INSTRUCTION MANUAL(EN,CH SY)		
-		*	B60-2691-08	INSTRUCTION MANUAL(TAIWANESE)	M	
-		*	B60-2692-08	INSTRUCTION MANUAL(PO)		
620	1C		E03-0115-05	AC PLUG ADAPTOR	M	
⚠621	1E		E30-0459-08	AC POWER CORD	ME	
⚠621	1E		E30-2753-08	AC POWER CORD	T	
622	1C		E30-0505-05	AUDIO CORD		
623	1C		E30-2733-05	SYSTEM CONTROL CODE		
-		*	H25-1582-08	PROTECTION BAG		
-		*	H25-1594-08	PROTECTION BAG (SET)		
-		*	H50-1902-08	ITEM CARTON CASE	ET	
-		*	H50-1903-08	ITEM CARTON CASE	C	
-		*	H50-1904-08	ITEM CARTON CASE	M	
630	2E	*	J02-1171-08	FOOT		
631	2C	*	J19-5754-08	HOLDER (FL)		
⚠632	1E	*	J42-0083-05	AC CORD BUSHING		
640	2C	*	K29-6512-08	KNOB (POWER)		
641	2C,2D	*	K29-6513-08	KNOB (10KEY)		
642	2D	*	K29-6514-08	KNOB (CD FUNCTION)		
⚠650	1D	*	L07-2252-08	POWER TRANSFORMER	M	
650	1D	*	L07-2253-08	POWER TRANSFORMER	ET	
650	1D	*	L07-2254-08	POWER TRANSFORMER	C	
C			N09-3343-08	SCREW (M3X10 SPECIAL)		
D			SH1129700037	SCREW (M3X10 SPECIAL)		
				ELECTRIC PARTS		
C1			CK45FB1C103K	CERAMIC 0.010UF K		
C2			CE04KW1A470M	ELECTRO 47UF 10WV		
C3			CK45FB1C104K	CERAMIC 0.10UF K		
C4			CK45FB1E102K	CERAMIC 1000PF K		
C5 ,6			CK45FB1E333K	CERAMIC 0.033UF K		
C7			CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C8			CK45FB1C683K	CERAMIC 0.068UF K		
C9			CK45FB1E473K	CERAMIC 0.047UF K		
C10			CC45FSL1H181J	CERAMIC 180PF J		
C11 ,12			CK45FB1C104K	CERAMIC 0.10UF K		
C13			CC45FSL1H331J	CERAMIC 330PF J		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
IC2		*	LC78620J	IC		
IC4		*	IX0125	IC		
IC5			M56748FP	IC(BRIDGE DRIVER)		
IC7			TA7291S	IC		
IC9			KIA7036	IC		
IC11, 12		*	NJM4565D	IC(OP AMP X2)		
LED501			3N4PDN32	LED		
Q1		*	KTA1266GR	TRANSISTOR		
Q3		*	KTA1271Y	TRANSISTOR		
Q4		*	2SB1237R3	TRANSISTOR		
Q5			KTA1266GR	TRANSISTOR		
Q6 -10			KTC3199GR	TRANSISTOR		
Q11			2SD2012	TRANSISTOR		
Q13			KRC107M	TRANSISTOR		
ZD2			MTZJ9R1A	ZENER DIODE		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C112			CE04KW1E471M	ELECTRO 470UF 25WV		
C113,114			CE04KW1A470M	ELECTRO 47UF 10WV		
C115			CK45FB1E223K	CERAMIC 0.022UF K		
C116,117			CE04KW1A470M	ELECTRO 47UF 10WV		
C118,119			CE04KW1H100M	ELECTRO 10UF 50WV		
C120-122			CE04KW1A470M	ELECTRO 47UF 10WV		
C130,131			CK45FB1H221K	CERAMIC 220PF K		
C301,302			CC45FSL1H221K	CERAMIC 220PF K		
C303,304			CK45FB1E473K	CERAMIC 0.047UF K		
C501			CK45FB1H123K	CERAMIC 0.012UF K		
C701			CK45FB1E473K	CERAMIC 0.047UF K		
675	2D	*	E35-1672-08	FLAT CABLE CONNECTOR (CNP6-501)		
CNP1			E40-9866-08	PIN ASSY (6P)		
CNP2			E40-9995-08	PIN ASSY (5P)		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
DP-1080/2080						
601	1C	*	A01-3379-08	METALLIC CABINET		
602	1C	*	A09-0377-08	BATTERY COVER (FOR RC-P0202)		
604	2C	*	A22-1749-08	PANEL (CD TRAY)		
605	2C	*	A60-1027-08	PANEL (FOR DP-2080)		
605	2C	*	A60-1028-08	PANEL (FOR DP-1080)		
606	1C	*	A70-1108-08	REMOTE CONT(RC-P0202 FOR 2080)		
610	2C	*	B10-2290-08	FRONT GLASS		
611	2C	*	B11-0340-08	COLOR FILTER		
612	2C	*	B43-0302-04	KENWOOD BADGE		
-		*	B60-2687-08	INSTRUCTION MANUAL(ENGLISH)	T	
-		*	B60-2688-08	INSTRUCTION MANUAL(G,D,I,S,F)	E	
-		*	B60-2689-08	INSTRUCTION MANUAL(ENG,CHINA)	C	
-		*	B60-2690-08	INSTRUCTION MANUAL(EN,CH,SY)		
-		*	B60-2691-08	INSTRUCTION MANUAL(TAIWANESE)	M	
-		*	B60-2692-08	INSTRUCTION MANUAL(PO)		
620	1C		E03-0115-05	AC PLUG ADAPTOR	M	
⚠ 621	1E		E30-0459-08	AC POWER CORD	ME	
⚠ 621	1E		E30-2753-08	AC POWER CORD	T	
622	1C		E30-0505-05	AUDIO CORD		
623	1C		E30-2733-05	SYSTEM CONTROL CODE		
-		*	H25-1582-08	PROTECTION BAG		
-		*	H25-1594-08	PROTECTION BAG (SET)		
-		*	H50-1902-08	ITEM CARTON CASE	ET	
-		*	H50-1903-08	ITEM CARTON CASE	C	
-		*	H50-1904-08	ITEM CARTON CASE	M	
630	2E	*	J02-1171-08	FOOT		
631	2C	*	J19-5754-08	HOLDER (FL)		
⚠ 632	1E		J42-0083-05	AC CORD BUSHING		
640	2C	*	K29-6512-08	KNOB (POWER)		
641	2C,2D	*	K29-6513-08	KNOB (10KEY)		
642	2D	*	K29-6514-08	KNOB (CD FUNCTION)		
⚠ 650	1D	*	L07-2252-08	POWER TRANSFORMER	M	
650	1D	*	L07-2253-08	POWER TRANSFORMER	ET	
650	1D	*	L07-2254-08	POWER TRANSFORMER	C	
C			N09-3343-08	SCREW (M3X10 SPECIAL)		
D			SH1129700037	SCREW (M3X10 SPECIAL)		
ELECTRIC PARTS						
C1			CK45FB1C103K	CERAMIC 0.010UF K		
C2			CE04KW1A470M	ELECTRO 47UF 10WV		
C3			CK45FB1C104K	CERAMIC 0.10UF K		
C4			CK45FB1E102K	CERAMIC 1000PF K		
C5 ,6			CK45FB1E333K	CERAMIC 0.033UF K		
C7			CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C8			CK45FB1C683K	CERAMIC 0.068UF K		
C9			CK45FB1E473K	CERAMIC 0.047UF K		
C10			CC45FSL1H181J	CERAMIC 180PF J		
C11 ,12			CK45FB1C104K	CERAMIC 0.10UF K		
C13			CC45FSL1H331J	CERAMIC 330PF J		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C14			CK45FB1H103K	CERAMIC 0.010UF K		
C15			CK45FB1E333K	CERAMIC 0.033UF K		
C16			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C17			CK45FB1H102K	CERAMIC 1000PF K		
C18 ,19			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C20			CE04KW1C220M	ELECTRO 22UF 16WV		
C21			CK45FB1H332M	CERAMIC 3300PF M		
C22			CK45FB1H272M	CERAMIC 2700PF M		
C23			CC45FSL1H150J	CERAMIC 15PF J		
C24			CK45FB1E102K	CERAMIC 1000PF K		
C25			CK45FB1E333K	CERAMIC 0.033UF K		
C26			CE04KW1E4R7M	ELECTRO 4.7UF 25WV		
C27			CK45FB1C103K	CERAMIC 0.010UF K		
C28			CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C29			CE04KW1A101M	ELECTRO 100UF 10WV		
C30			CK45FB1H103K	CERAMIC 0.010UF K		
C31			CK45FB1H104K	CERAMIC 0.10UF K		
C32			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C33			CE04KW1HR33M	ELECTRO 0.33UF 50WV		
C34			CK45FB1H103K	CERAMIC 0.010UF K		
C35			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C40			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C41			CE04KW1A101M	ELECTRO 100UF 10WV		
C42			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C43			CK45FB1E223K	CERAMIC 0.022UF K		
C44			CE04KW1A470M	ELECTRO 47UF 10WV		
C45			CC45FSL1H221J	CERAMIC 220PF J		
C46			CE04KW1A470M	ELECTRO 47UF 10WV		
C47			CK45FB1H103K	CERAMIC 0.010UF K		
C48			CK45FB1E473K	CERAMIC 0.047UF K		
C49			CK45FB1C104K	CERAMIC 0.10UF K		
C50 ,51			CC45FSL1H221J	CERAMIC 220PF J		
C52 ,53			CK45FB1E473K	CERAMIC 0.047UF K		
C54			C90-3231-05	ELECTRO 3.3UF 25WV		
C55 ,56			CK45FB1H103K	CERAMIC 0.010UF K		
C57			CE04KW1H221M	ELECTRO 220UF 50WV		
C58		*	CC45FSL1H8R2D	CERAMIC 8.2PF D		
C59			CC45FSL1H100J	CERAMIC 10PF J		
C63 ,64			C91-1544-08	MYLAR 100PF 63WV		
C65 -68			CK45FB1H101K	CERAMIC 100PF K		
C69 ,70			CK45FB1E223K	CERAMIC 0.022UF K		
C71 ,72			CE04KW1C100M	ELECTRO 10UF 16WV		
C74			CE04KW1E221M	ELECTRO 220UF 25WV		
C75			CE04KW1V221M	ELECTRO 220UF 35WV		
C76			CE04KW1V101M	ELECTRO 100UF 35WV		
C77			CE04KW1E101M	ELECTRO 100UF 25WV		
C78 ,79			CK45FB1H103K	CERAMIC 0.010UF K		
C80			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C81			CE04KW1A101M	ELECTRO 100UF 10WV		
C82			CK45FB1H103K	CERAMIC 0.010UF K		
C83 ,84			CE04KW1H101M	ELECTRO 100UF 50WV		
C87 ,88			CE04KW1H100M	ELECTRO 10UF 50WV		
C89 ,90			CE04KW1A101M	ELECTRO 100UF 10WV		
C95			CK45FB1H103K	CERAMIC 0.010UF K		
C111			CE04KW1E332M	ELECTRO 3300UF 25WV		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C112			CE04KW1E471M	ELECTRO 470UF 25WV		
C113,114			CE04KW1A470M	ELECTRO 47UF 10WV		
C115			CK45FB1E223K	CERAMIC 0.022UF K		
C116,117			CE04KW1A470M	ELECTRO 47UF 10WV		
C118,119			CE04KW1H100M	ELECTRO 10UF 50WV		
C120-122			CE04KW1A470M	ELECTRO 47UF 10WV		
C130,131			CK45FB1H221K	CERAMIC 220PF K		
C301,302			CC45FSL1H221K	CERAMIC 220PF K		
C303,304			CK45FB1E473K	CERAMIC 0.047UF K		
C501			CK45FB1H123K	CERAMIC 0.012UF K		
C701			CK45FB1E473K	CERAMIC 0.047UF K		
675	2D	*	E35-1672-08	FLAT CABLE CONNECTOR (CNP6-501)		
CNP1			E40-9866-08	PIN ASS'Y (5P)		
CNP2			E40-9995-08	PIN ASS'Y (5P)		
CNP3			E40-9868-08	PIN ASS'Y (6P)		
CNP4			E40-9866-08	PIN ASS'Y (6P)		
CNP6			E40-3871-05	FLAT CABLE CONNECTOR		
CNP201		*	E40-8043-08	FLAT CABLE CONNECTOR		
CNP501			E40-4211-05	FLAT CABLE CONNECTOR		
CNP701		*	E40-8044-08	FLAT CABLE CONNECTOR		
J1			E63-0122-05	PHONO JACK (AUDIO OUTPUT)		
J2			E11-0188-05	PHONE JACK (SYSTEM CONT.)		
J701		*	E11-0345-08	MINIATURE PHONE JACK (PHONES)		
⚠ F201			F05-1014-05	FUSE (SEMCO2.5V0.1A)	EXTC	
⚠ F201			F05-2015-05	FUSE (SEMCO250V0.2A)	M	
⚠ F501			F05-5016-05	FUSE (SEMCO250V0.5A)		
FH1 ,2			J13-0091-08	FUSE HOLDER		
FH201,202			J13-0091-08	FUSE HOLDER		
L1			L40-8281-17	COIL (0.82UH)		
L2 -4		*	L77-2186-08	COIL (0.22UH)		
L701		*	L77-2186-08	COIL (0.22UH)		
XL1		*	L78-0664-08	CRYSTAL OSCILLATOR (16.9646MHZ)		
XL2			L78-0267-05	CERAMIC (4.1724MHZ)		
R88		*	RN14BK2H101J	RN 100 J 1/2W		
R124,125		*	RN14BK2H180J	RN 18 J 1/2W		
R933		*	RN14BK2H101J	RN 100 J 1/2W		
SW1			S62-0061-08	SWITCH (AUTO PLAYBACK)		
SW10		*	S70-0041-08	SWITCH (TEST)		
SW201		*	SH1105270143	SWITCH (POWER SELECT)	M	
SW501-525		*	S70-0041-08	SWITCH (10KEY)		
SW601		*	S70-0041-08	SWITCH (POWER)		
D1 -9			1SS133T	DIODE		
D10			RL104T	DIODE		
D13 ,14			RL104T	DIODE		
D301,302			1SS133T	DIODE		
D501-508			1SS133T	DIODE		
D701,702			1SS133T	DIODE		
FL501			10-BT-67GK	INDICATOR TUBE		
IC1			LA9233M	IC(SERVO)		

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❹

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
IC2		*	LC78620J	IC		
IC4		*	IX0125	IC		
IC5			M56748FP	IC		
IC7			TA7291S	IC(BRIDGE DRIVER)		
IC9			KIA7036	IC		
IC11, 12			NJM4565D	IC(OP AMP X2)		
LED501		*	3N4PDN32	LED		
Q1			KTA1266GR	TRANSISTOR		
Q3		*	KTA1271Y	TRANSISTOR		
Q4			2SB1237R3	TRANSISTOR		
Q5			KTA1266GR	TRANSISTOR		
Q6 -10			KTC3199GR	TRANSISTOR		
Q11			2SD2012	TRANSISTOR		
Q13			KRC107M	TRANSISTOR		
ZD2			MTZJ9R1A	ZENER DIODE		
ZD3		*	MTZJ7R5BT	ZENER DIODE		
ZD4 ,5			MTZJ9R1A	ZENER DIODE		
ZD6			MTZJ30BT	ZENER DIODE		
ZD7			MTZJ6R8B	ZENER DIODE		
ZD10		*	MTZJ8R2AT	ZENER DIODE		
RMC501			W02-1174-05	ELECTRIC MODULE(FOR DP-2080)		
MECHANISM PARTS						
1	1B		A11-1087-08	CHASSIS (LOADING)		
5	2B		D10-3619-08	ROD (GUIDE)		
6	1A		D13-1726-08	GEAR (RACK)		
7	1A		D13-1727-08	GEAR (TRAY)		
8	2B		D13-1728-08	GEAR (MIDDLE)		
9	2B		D13-1729-08	GEAR (DRIVE)		
10	1B		D15-0388-08	PULLEY (DRIVE)		
11	1B		D16-0396-08	BELT (DRIVE)		
15	2B,3B		J02-1146-08	INSULATOR		
16	2B		J11-0811-08	CLAMPER		
17	1B		J11-0812-08	CLAMPER (MAGNET)		
18	3A		J19-5661-08	HOLDER (MECHANISM)		
19	2B		J19-5662-08	HOLDER (GUIDE)		
20	2A		J99-0580-08	TRAY		
-			SH1309330057	WIRE BAND		
A	3B		N09-2950-08	SCREW		
B	1B		N09-2928-08	SCREW (M2.6X5)		
C	2A,2B		SH1109700937	SCREW (M2.6X6)		
E	3B		SH1309701564	SCREW (M2X3)		
G	2B		SH1109700938	SCREW (M2X5)		
25	2B		S74-0053-08	LEAF SWITCH		
26	3B		S74-0054-08	LEAF SWITCH		
30	1B		T99-0573-08	MAGNET		
DM	3B		T42-0825-08	MOTOR ASSY (SPIN)		
FM	3B		T42-0824-08	MOTOR ASSY (SLIDE)		
LM	2B		T42-0823-08	MOTOR ASSY (TRAY)		
PU	3A		T25-0033-15	PICKUP ASSY		

L : Scandinavia **K** : USA **P** : Canada **R** : Mexico
Y : PX(Far East, Hawaii) **T** : Europe **E** : Europe **G** : Germany
Y : AAFES(Europe) **X** : Australia **M** : Other Areas

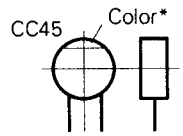
⚠ indicates safety critical components.

PARTS DESCRIPTIONS

CAPACITORS

CC 45 TH 1H 220 J
1 2 3 4 5 6

1 = Type ... ceramic, electrolytic, etc.
2 = Shape ... round, square, ect.
3 = Temp. coefficient
4 = Voltage rating
5 = Value
6 = Tolerance



• Capacitor value

010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001μF
103 = 0.01μF

2 2 0 = 22pF
0 = Multiplier
2 = 2nd number
2 = 1st number

• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40	+80	+100	More than 10μF - 10 ~ +50
							-20	-20	-0	Less than 4.7μF -10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

1st word \ 2nd word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

• Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
1 2 3 4 5 6 7
(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
1 2 3 4 5 6 7
(Chip) (B, F)

Refer to the table above.
1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

Dimension (Chip capacitors)

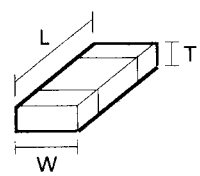
Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

• Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J
1 2 3 4 5 6 7
(Chip) (B,F)

Dimension



Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1

• Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
1 2 3 4 5 6 7

1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Rating wattage
6 = Value
7 = Tolerance

Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

DP-1080/2080

SPECIFICATIONS

[Format]

System .....Compact disc digital audio system
Laser .....Semiconductor laser
Number of channels .....2 channels
Playing rotation .....200 rpm ~ 500 rpm (CLV)

[D/A Convertors]
D/A Conversion .....1 Bit
Oversampling .....8 fs (352.8 kHz)

[Audio]

Frequency response .....8 Hz ~ 20 kHz ±1.0 dB
Signal to noise ratio .....More than 94 dB
Dynamic range .....More than 92 dB
Total harmonic distortion .....Less than 0.005%
Channel separation .....More than 83 dB
Wow & flutter .....Unmeasurable limit
Output level/impedance
Fixed .....2.0 V/3.3 kΩ
Headphone output .....6 mW (32Ω)

[General]

Power consumption .....14 W
Dimensions .....W : 440 mm (17 - 5/16")
H : 93 mm (3 - 11/16")
D : 375 mm (14 - 3/4")
Weight (Net) .....4.0 kg (8.8 lb)

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

Note:
Component and circuity 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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