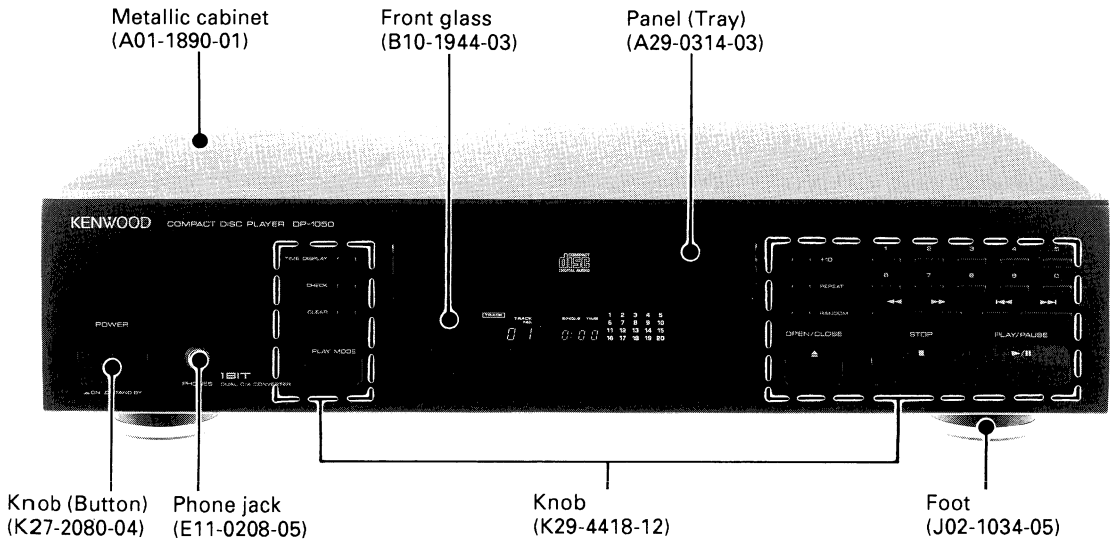
COMPACT DISC PLAYER

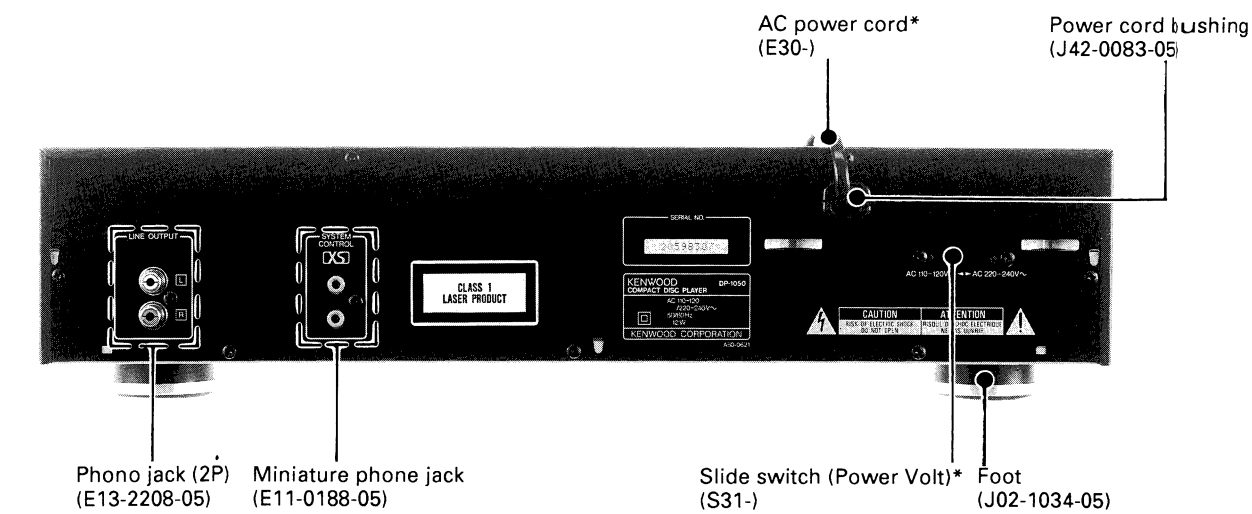
DP-1050/2050

SERVICE MANUAL

KENWOOD

B51-4647-00(O)4094





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.

Photo is DP-1050.

*** Refer to parts list on page 34.**

DP-1050/2050

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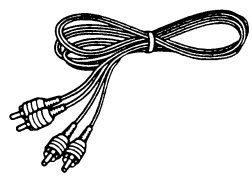
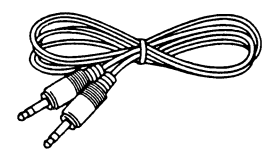
ACCESSORIES

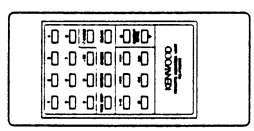
• Audio cord 1
(E30-0505-05)



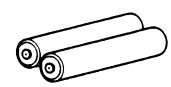
• System control cord 1
(E30-1392-05)



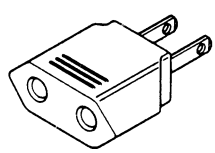
• Remote control unit (DP-2050 only) 1
(A70-0529-05 : P,Y,M,X,T,E type)
(A70-0532-05 : K type)



• Batteries (DP-2050 only) 2
(–)

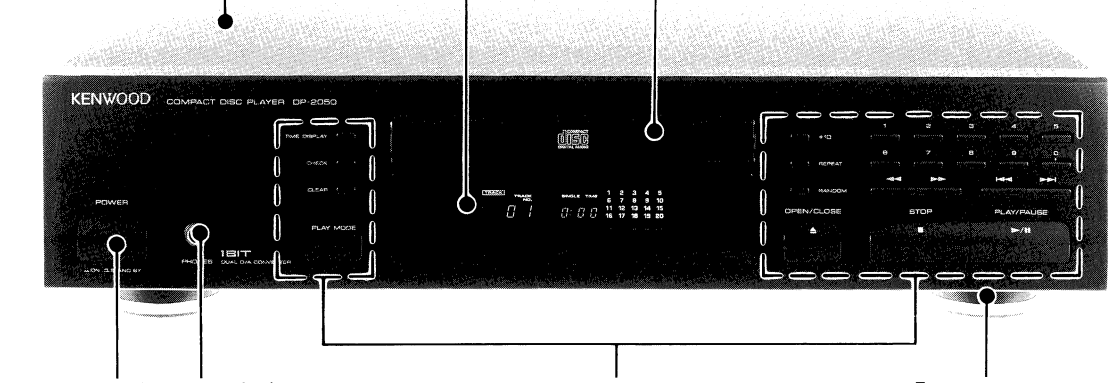


• AC plug adaptor 1
(E03-0115-05 : M type only)
(Except for some areas)



For the unit with a European AC plug in areas other than Europe.

EXTERNAL VIEW



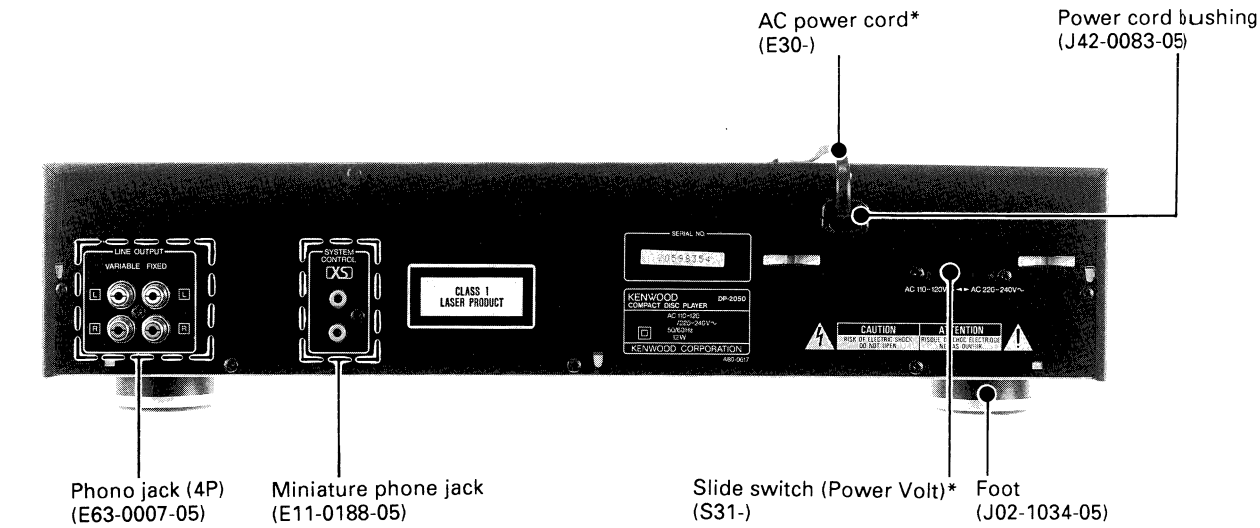
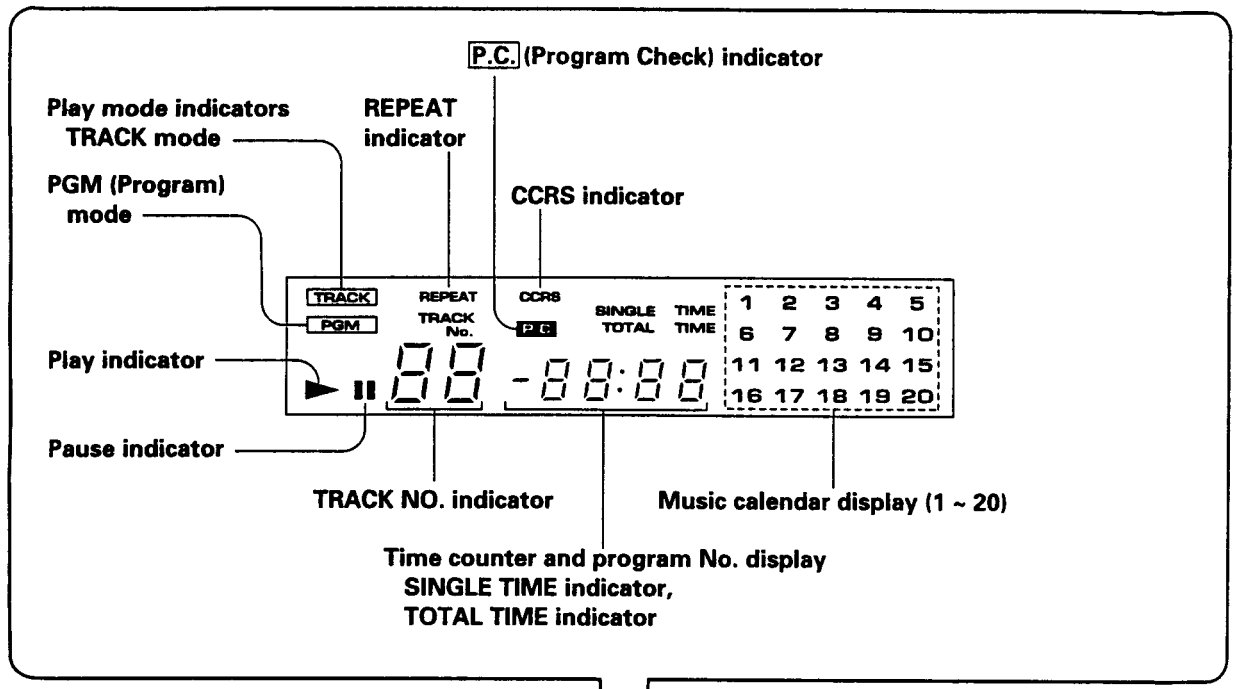


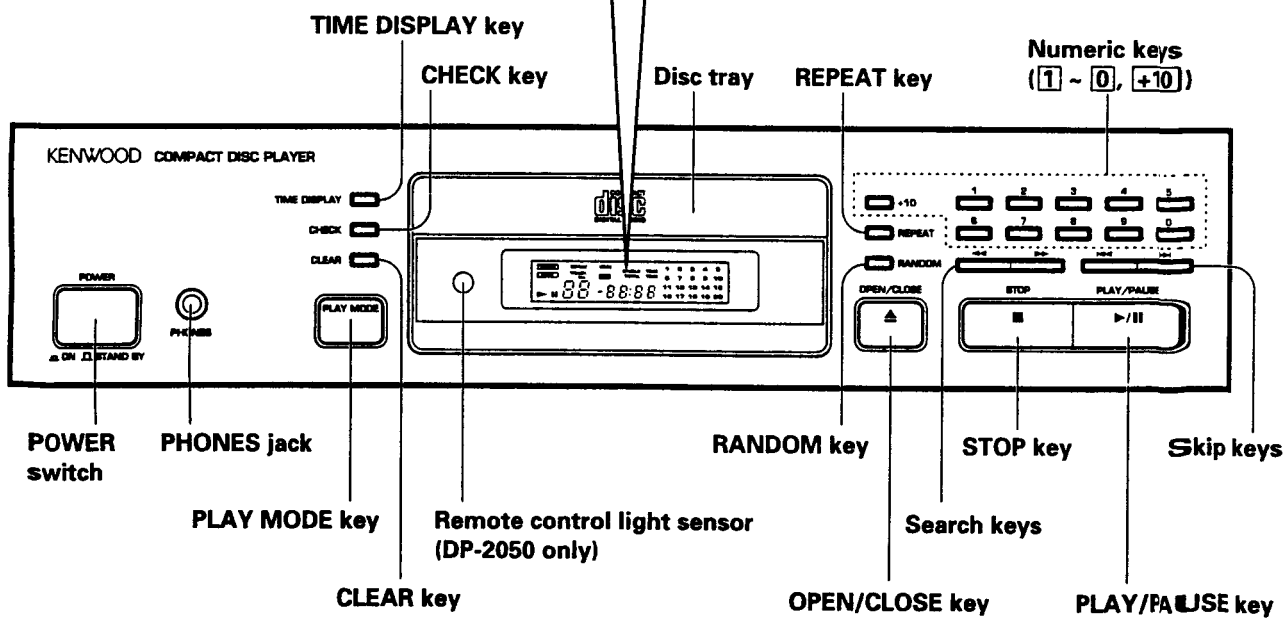
Photo is DP-2050.

*** Refer to parts list on page 34.**

DP-1050/2050

CONTROLS AND INDICATORS

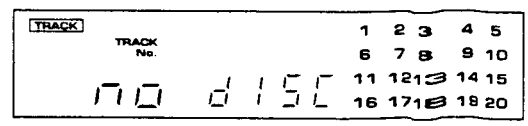




Note related to transportation and movement

Before transporting or moving this unit, carry out the following operations.

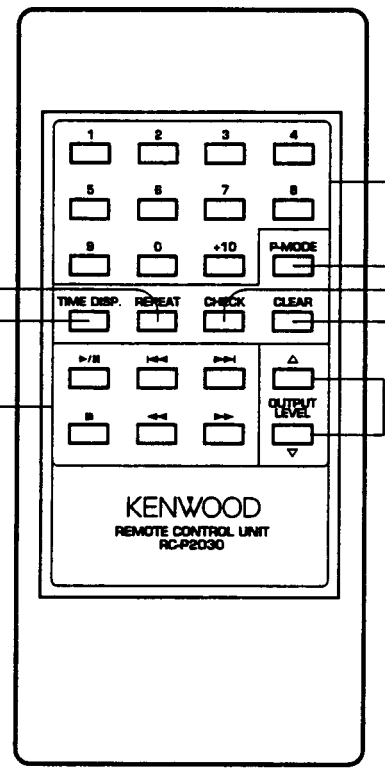
1. Turn the power ON but do not load a disc.
2. Wait a few seconds and verify that the display shown appears.
3. Turn the power OFF.



REMOTE CONTROL/CAUTION

The keys marked * are provided only on the remote control unit.

Transmitter



Numeric keys

P-MODE key

CHECK key

CLEAR key

REPEAT key

TIME DISPLAY key

Play/Pause key ▶/II

Stop key ■

Skip keys ⏮, ⏭

Search keys ◀◀, ▶▶

***OUTPUT LEVEL keys**
(Except for the U.S.A.)

Model name: RC-P2030K
(For the U.S.A.)
RC-P2030
(For other countries)

Transmission system: Infrared pulse system

CAUTION

This instruction manual is used for two models.
Model availability and features (functions) may differ depending on the country and sales area.

Points of difference \ Model			DP-2050		DP-1050
			For the U.S.A.	For other countries	
Accessories	Remote control unit	RC-P2030K	○	Not equipped	Not equipped
		RC-P2030 (OUTPUT LEVEL keys)	Not equipped	○	Not equipped
	Batteries	R6/AA	○	○	Not equipped
Rear panel		LINE OUTPUT (FIXED)	○	○	○
		LINE OUTPUT (VARIABLE)	Not equipped	○	Not equipped

DP-1050/2050

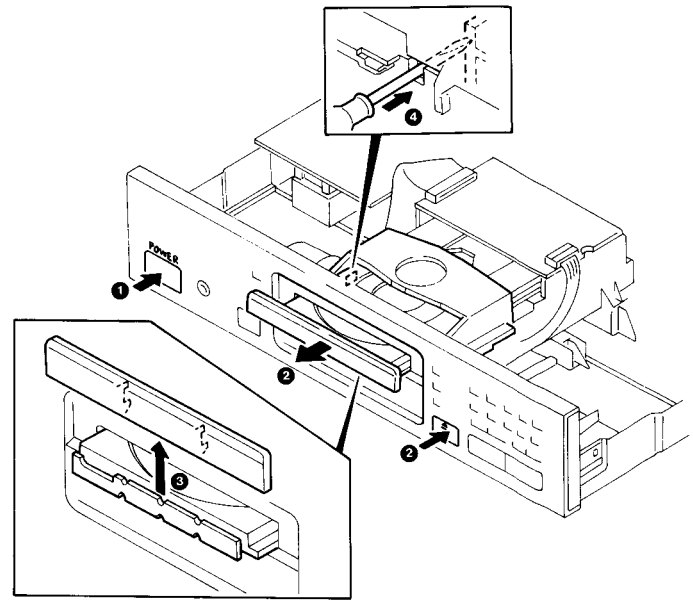
DISASSEMBLY FOR REPAIR

1. How to Disassemble

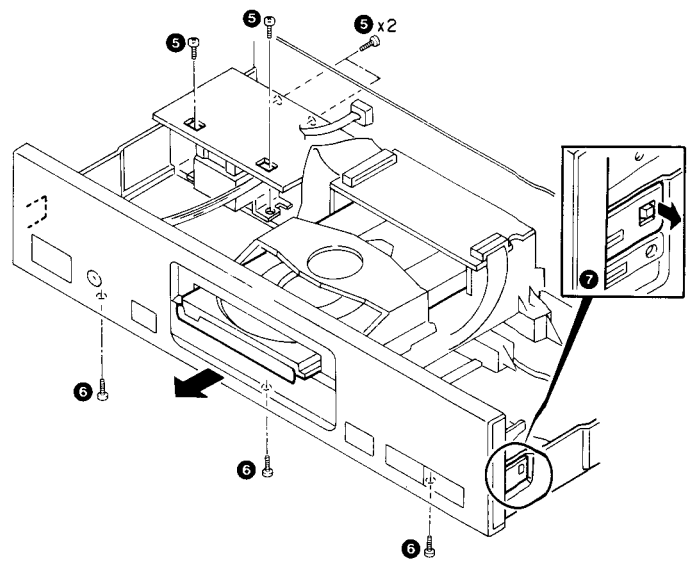
* Remove the metallic cabinet before disassembling.

1. Push power switch to ON (❶).
2. Push OPEN key (❷)
3. Remove the tray panel(❸).

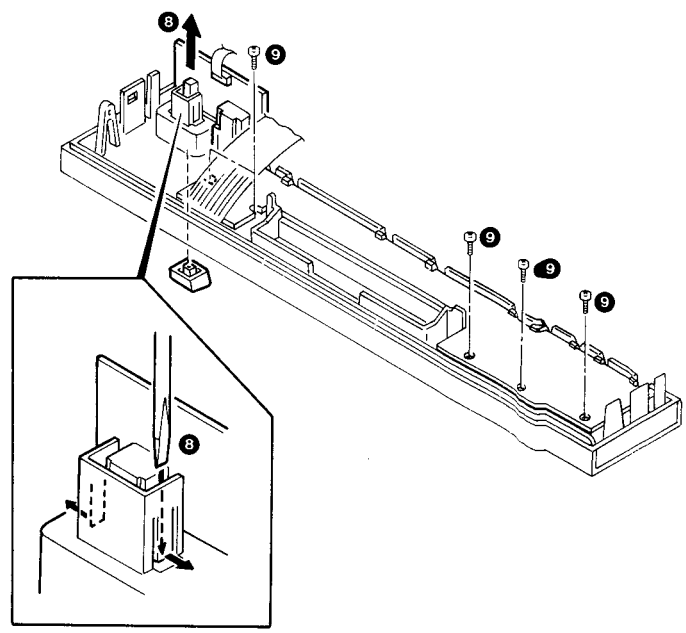
Note : When tray doesn't come out in tray-out mode, insert the screw driver to left-side hole of mechanism and push the slider to right-wards. (❹)



4. Remove 4 screws (❺).
5. Remove 3 screws (❻).
6. Remove panel-catchers from chassis (❼).



7. Push knob-hooker (❽).
8. Remove 5 screws and pc board (❾).

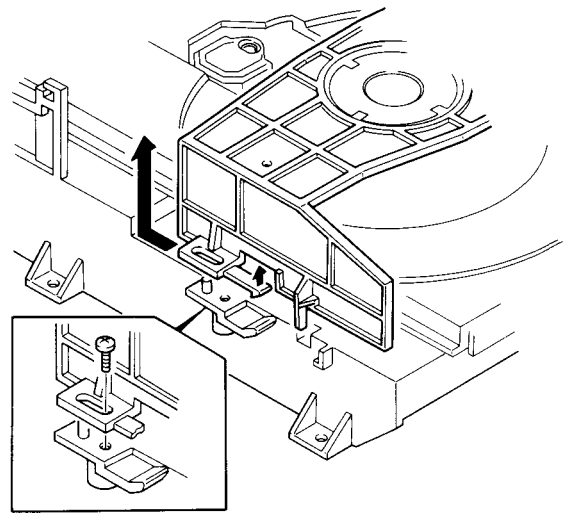


DISASSEMBLY FOR REPAIR

2. How to Remove Clamper

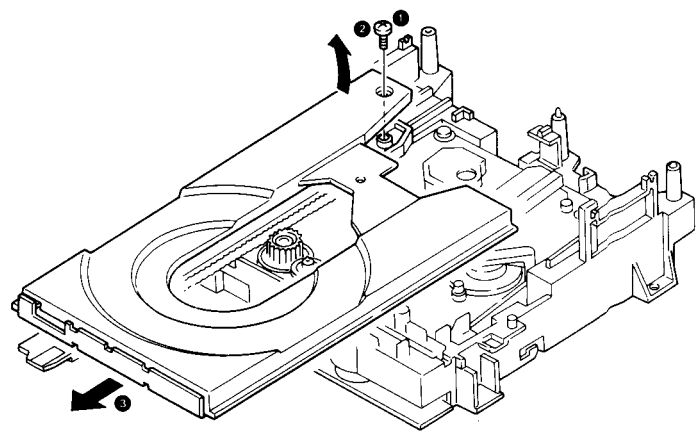
1. Remove the cabinet.
2. Remove both-sides-catchers of clamper ass'y and slide it back-wards.
3. Lift the clamper ass'y.

Note : If broken catcher, use screw (2.6x8:N89-2608-46) to fix it.



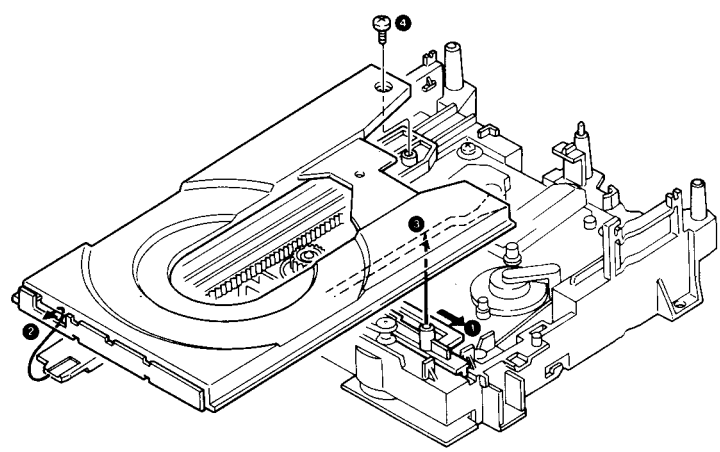
3. How to Remove Tray

1. Turn power switch off after tray is open.
2. Remove screw (❶).
3. Lift the tray (❷).
4. Slide the tray front-wards and remove it (❸).



4. How to Mount Tray

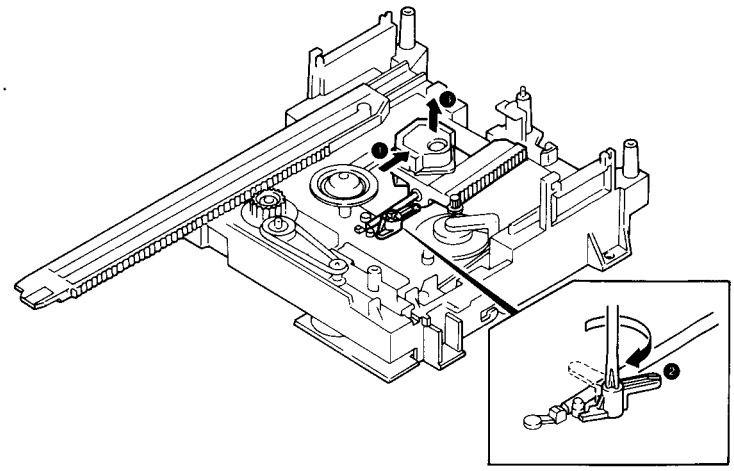
1. Slide slider fully right-wards and pull out tray gear front-wards (❶).
2. Insert tray gear in slit of tray (❷).
3. Set tray-back-groove to boss of slider (❸).
4. Fix tray with screw (❹).



DISASSEMBLY FOR REPAIR

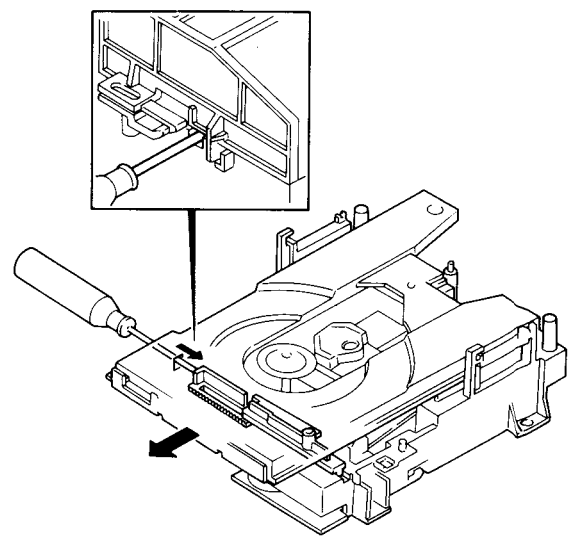
5. How to Replace Pickup

1. Remove clamper ass'y and set tray-open.
2. Move pickup at center position of its all travel(❶).
3. Turn rod stopper (❷) and lift pickup ass'y (❸).

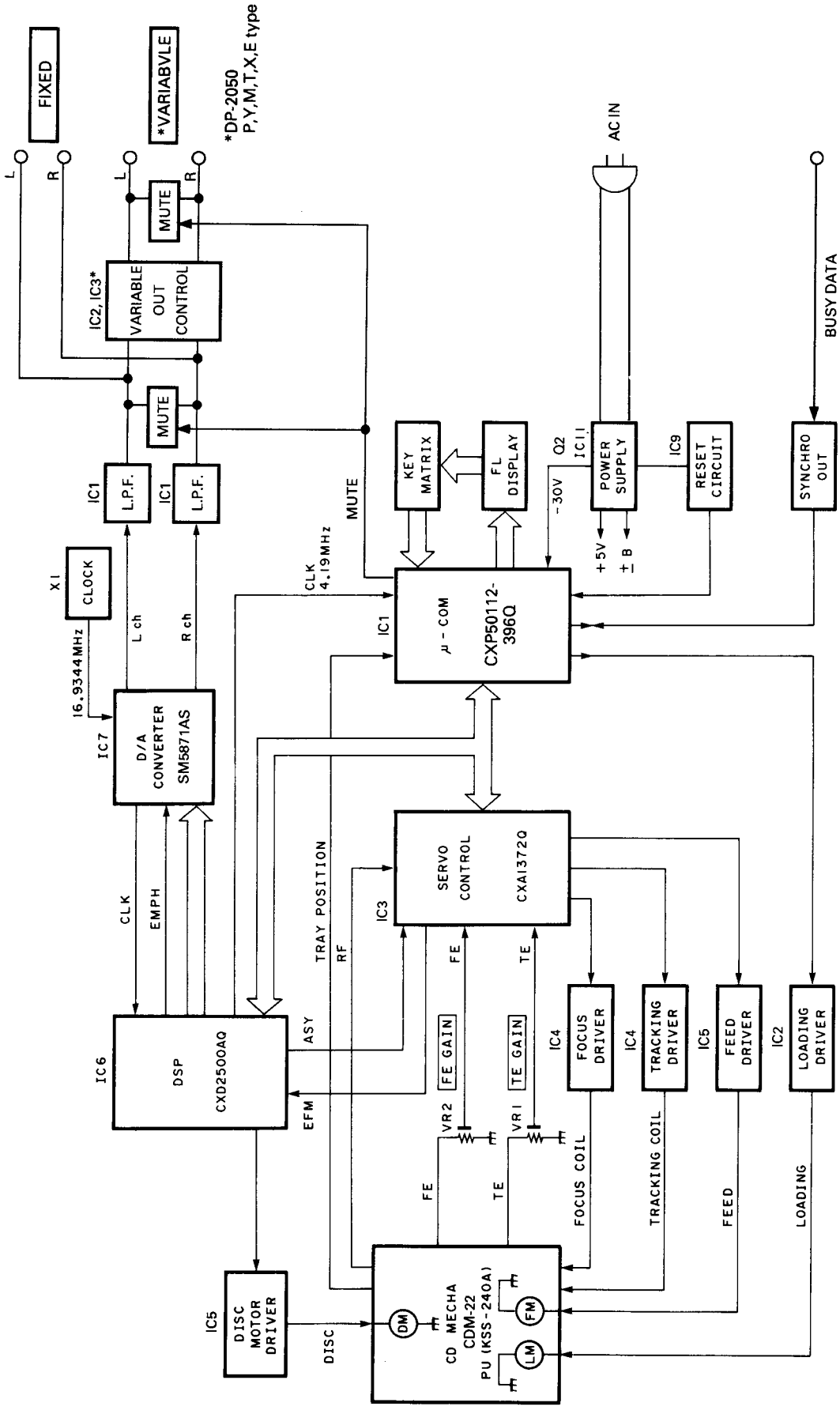


6. How to Open Tray when Tray Not Come Out

1. Insert screw driver to left-side hole of mechanism ass'y.
2. Push slider right-wards.



BLOCK DIAGRAM

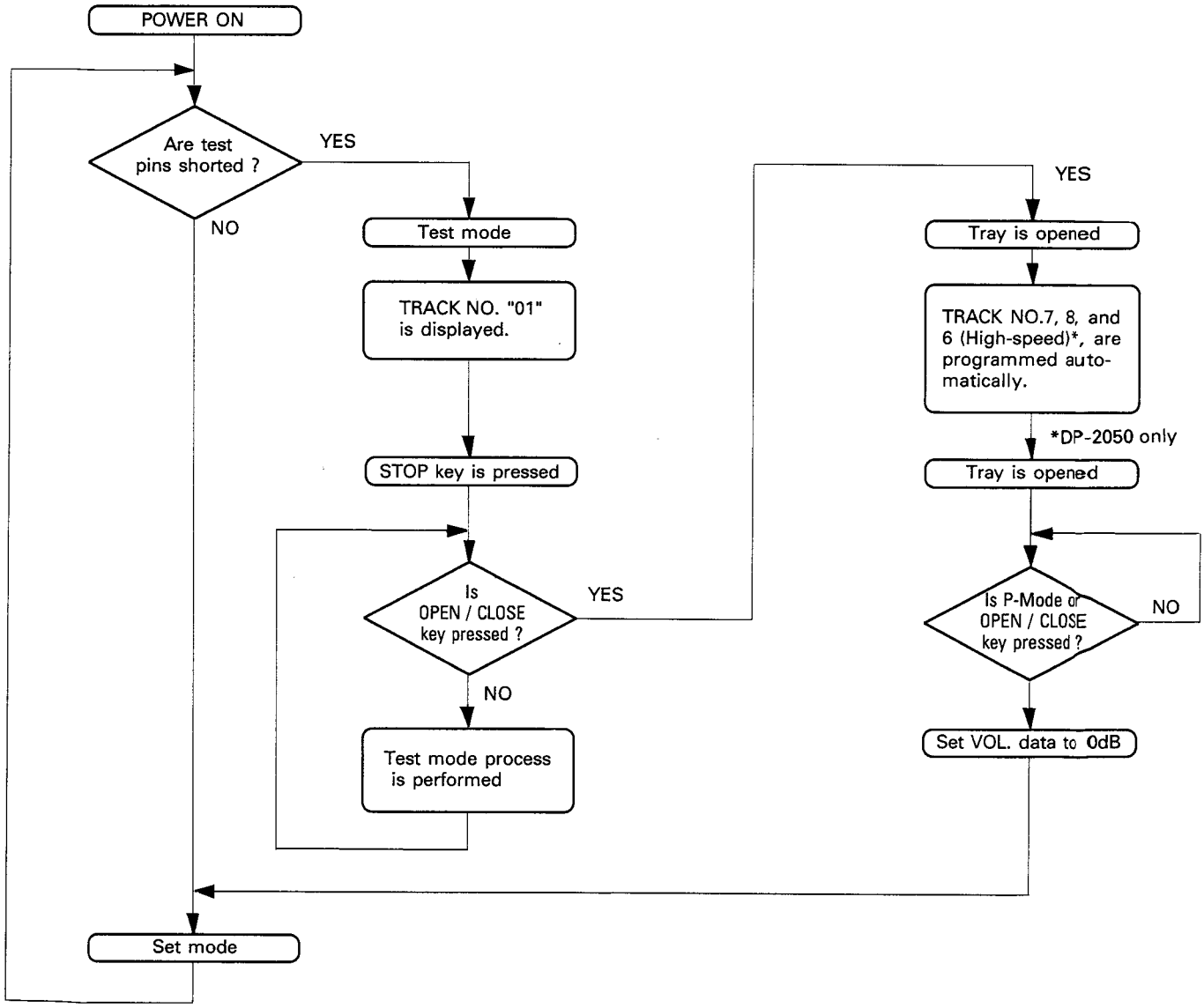


CIRCUIT DESCRIPTION

1. Test mode

1-1. Setting the test mode

This microprocessor built in this unit can be put to TEST MODE by just short-circuiting the test pins (CN 7 1pin and 2 pin).



CIRCUIT DESCRIPTION

1-2. Key and functions valid test mode

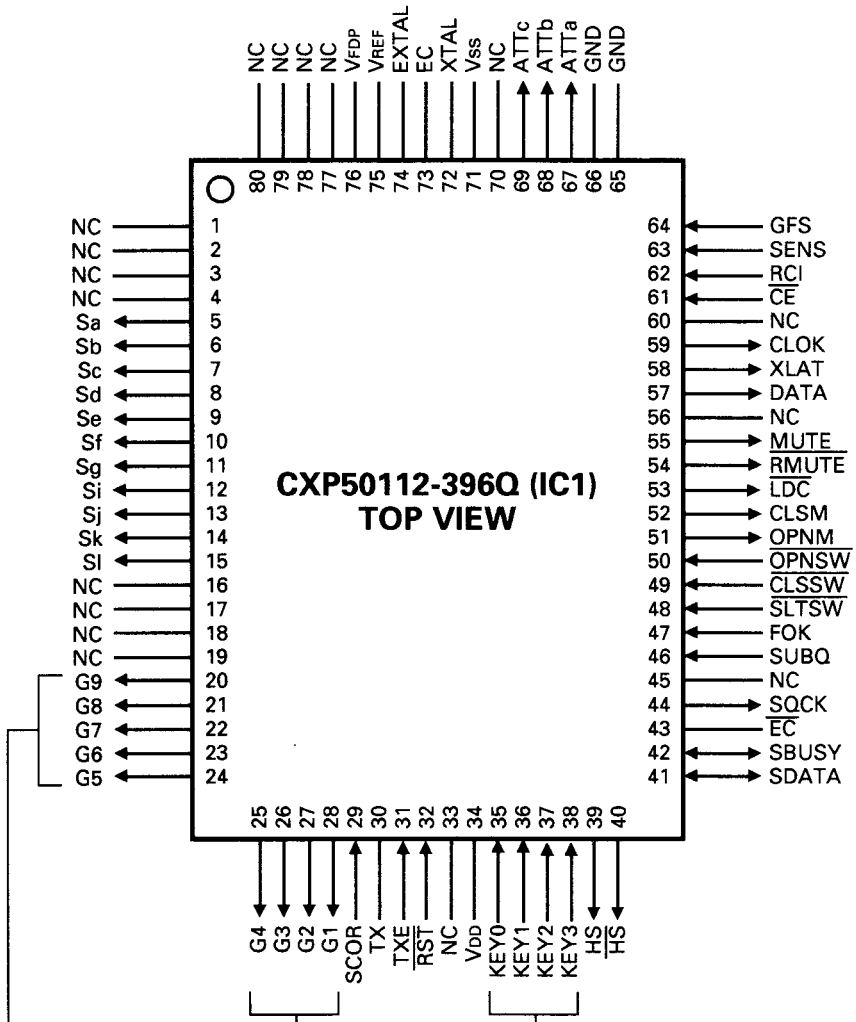
No.	Input key	Function	Track No. display
1	PLAY	(1) Focusing servo ..... ON (2) Tracking servo ..... ON (3) Feed servo ..... ON (4) Mute ..... OFF	TRACK NO. 05 ↓ Displayed for a few seconds after completion (1), (2) and (3). ↓ Disc Track No. and Single time are displayed.
2	CHECK	(1) Focusing servo ..... ON (2) Tracking servo ..... ON (3) Feed servo ..... OFF (4) Mute ..... ON	TRACK NO. 03
3	STOP	(1) Focusing servo ..... OFF (2) Tracking servo ..... OFF (3) Feed servo ..... OFF	TRACK NO. 01
4	UP ▶▶	Turns all FL display lamps ON.	TRACK NO. 88
5	DOWN ◀◀	Turns all FL display lamps OFF. "TRACK NO." is lighted.	TRACK NO. 88
6	TIME DISPLAY	The contents of the time display can be selected between 2 functions. →Single time ↓ ←Total time	-
7	RANDOM*	Set playback mode to Normal or High-speed. Normal speed : EDIT goes OFF High-speed : EDIT lights	-
8	P. MODE	Track No. 7,8, and 6 (High-speed)* are programmed and playback from Track No.7. The test mode is canceled.	-
9	OPEN/CLOSE	When the tray is opened then closed. Track No. 7, 8, and 6, (High-speed)* are programmed and set is in STOP mode. The test mode is canceled.	TRACK NO. 00

*DP-2050 only

CIRCUIT DESCRIPTION

2. Microprocessor : CXP50112-396Q (X32- IC1)

2-1. Terminal connection diagram



	KEY0	KEY1	KEY2	KEY3
G1	1	6		
G2	2	7		
G3	3	8		
G4	4	9		
G5	5	0		
G6	P-MODE	TIME DISP.		+10
G7	CHECK	CLEAR	PLAY/PAUSE	RESET
G8	FB	FF	DOWN	UP
G9	OPEN/CLOSE	RADOM	TEST MODE	STOP

* DP-2050 only

CIRCUIT DESCRIPTION

2-2. Pin functions

Pin NO.	Pin name	I/O	Function
1	NC	–	–
2	NC	–	–
3	NC	–	–
4	NC	–	–
5	Sa	O	Display segments a
6	Sb	O	Display segments b
7	Sc	O	Display segments c
8	Sd	O	Display segments d
9	Se	O	Display segments e
10	Sf	O	Display segments f
11	Sg	O	Display segments g
12	Si	O	Display segments i
13	Sj	O	Display segments j
14	Sk	O	Display segments k
15	Sl	O	Display segments l
16	NC	–	–
17	NC	–	–
18	NC	–	–
19	NC	–	–
20	G9	O	Display grids and key scan 9
21	G8	O	Display grids and key scan 8
22	G7	O	Display grids and key scan 7
23	G6	O	Display grids and key scan 6
24	G5	O	Display grids and key scan 5
25	G4	O	Display grids and key scan 4
26	G3	O	Display grids and key scan 3
27	G2	O	Display grids and key scan 2
28	G1	O	Display grids and key scan 1
29	SCOR	I	SCOR signal from CXD2500AQ
30	TX	–	–
31	TXE	I	GND
32	$\overline{RST}$	I	Reset (Active L)
33	NC	–	–
34	V_{DD}	–	Power supply (+5V)
35	KEY0	O	Key return 0
36	KEY1	O	Key return 1
37	KEY2	O	Key return 2
38	KEY3	O	Key return 3
39	HS	O	Normal or double speed selector (H = Double, L = Normal)
40	$\overline{HS}$	O	Normal or double speed selector (H = Normal, L = Double)
41	SDATA	I/O	DATA signal of serial system control
42	SBUSY	I/O	BUSY signal of serial system control
43	$\overline{EC}$	–	–
44	SQCK	O	Reading clock for Q data
45	NC	–	–
46	SUBQ	I	Q data signal
47	FOK	O	FOK signal from RF amp (CXA1372Q)
48	$\overline{SLTSW}$	I	Start limit switch (H = OFF, L = ON)
49	$\overline{CLSSW}$	I	Tray close switch (H = OFF, L = ON)
50	$\overline{OPNSW}$	I	Tray open switch (H = OFF, L = ON)

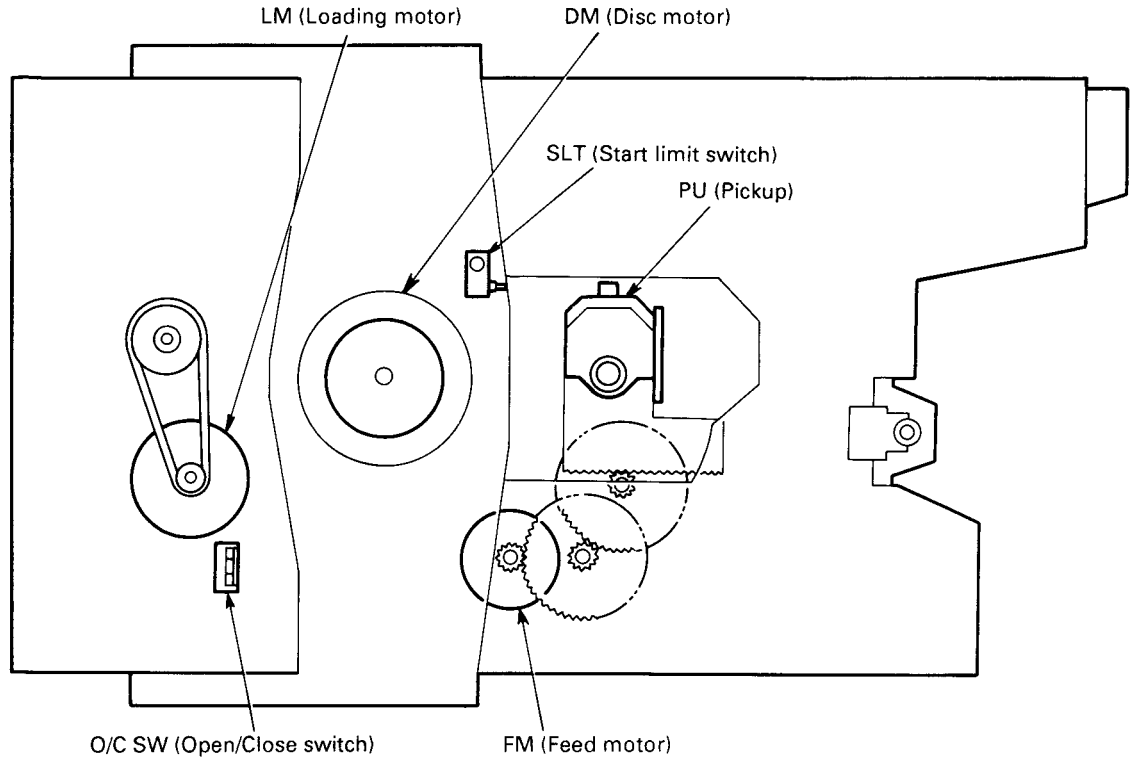
CIRCUIT DESCRIPTION

Pin NO.	Pin name	I/O	Function
51	OPNM	O	Tray open / close motor control (Open mode : OPNM = H, CLSM = L Close mode : OPNM = L, CLSM = H / Other mode : OPNM = H, CLSM = H)
52	CLSM	O	Tray open / close motor control (Open mode: OPNM = H, CLSM = L Close mode : OPNM = L, CLSM = H / Other mode : OPNM = H, CLSM = H)
53	$\overline{LDC}$	O	Laser ON signal (H = OFF, L = ON)
54	$\overline{RMUTE}$	O	Relay mute (H = OFF, L = ON)
55	MUTE	O	Mute signal output to CXD2500AQ (H = ON, L = OFF)
56	NC	–	–
57	DATA	O	Data control signal to signal and servo processors
58	XLAT	O	Latch control signal to signal and servo processors
59	CLOK	O	Clock control signal to signal and servo processors
60	NC	–	–
61	$\overline{CE}$	O	Electricity failure detecting signal (H to L)
62	RCI	I	Input of remote control
63	SENS	I	Sense control signal from signal and servo processor
64	GFS	I	Frame synchro signal from CXD2500AQ
65	GND	–	Ground
66	GND	–	Ground
			Variable output table

-dB	0	2	4	6	8	10	12	14
ATTa	L	H	L	H	L	H	L	H
ATTb	L	L	H	H	L	L	H	H
ATTc	L	L	L	L	H	H	H	H

67	ATTa	O	ATTa
68	ATTb	O	ATTb
69	ATTc	O	ATTc
70	NC	–	–
71	Vss	–	Ground
72	XTAL	–	–
73	EC	–	–
74	EXTAL	–	4.19MHz Ceralock
75	VREF	–	Power supply (+5V)
76	VFDP	–	Power supply (–30V)
77	NC	–	–
78	NC	–	–
79	NC	–	–
80	NC	–	–

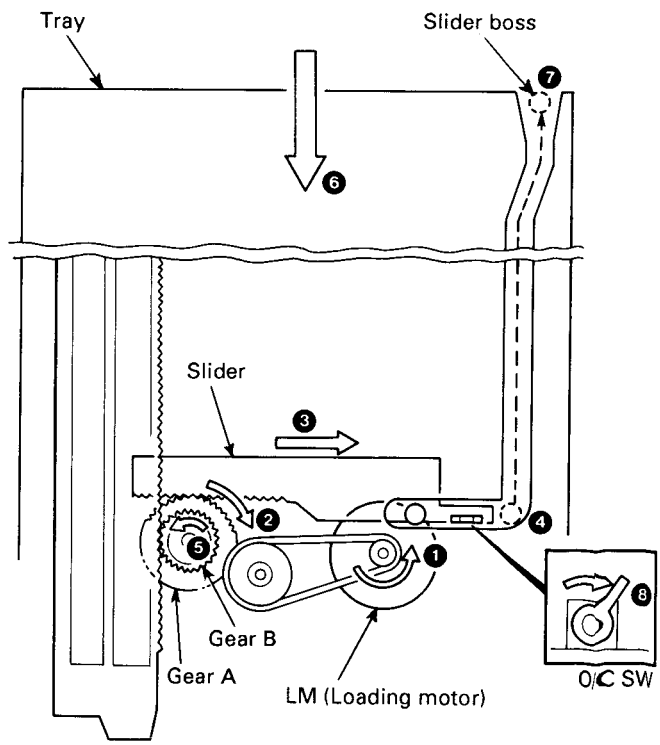
MECHANISM OPERATION DESCRIPTION



1. TRAY OPEN

The loading motor turns to the arrow direction (❶) when pushing open key.
The gear (A or B), which is not locked, starts to turn. In this case, the gear A turns to arrow direction (❷) because the tray is locked by slider boss.
The slider starts to move to arrow direction (❸) by the gear A. The Slider boss moves rightwards along the groove of the tray-back. The gear A and the slider stop (pickup mechanism is down) when slider boss at the groove-end of the right side (❹).

At this time, the tray-lock function is free because slider boss is in front and backwards. The gear B starts to turn to arrow direction (❺). The tray-open function (❻) starts when the gear of the tray-back moves.
The slider boss moves rightwards slightly (❼). This movement changes switch to arrow direction (❽) and tray-open function is finished perfectly.

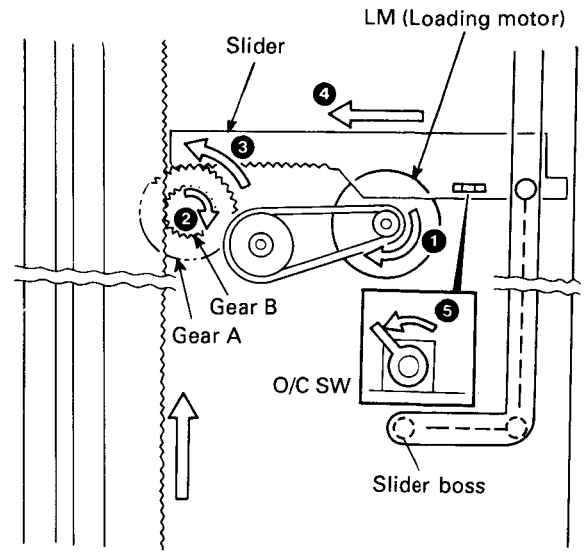


MECHANISM OPERATION DESCRIPTION

2. TRAY CLOSE

The loading motor turns to the arrow direction (❶) when pushing close key. Gear B starts to turn to arrow direction (❹). The tray-close function (❷) starts by the gear of the tray-back. The gear B stops to turn when slider boss moves at the point from front and backwards to right and leftwards.

The slider moves to arrow direction (❹) when the gear A starts to turn (❸). The lever changes switch to arrow direction (❺), and the tray-close function is finished perfectly.



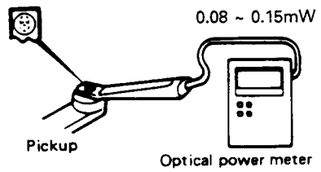
ADJUSTMENT

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
1	LASER POWER	–	Apply the sensor section of the optical power meter on the pickup lens.	Short-circuit pins TEST and enter the test mode. Press the MANUAL S. (⏩) to move the pickup outwards. Press the "0" key to check that the LD emits light. Then, confirm that the display is "03".	–	On the power from 0.08 to 0.15mW, when the diffraction grating is correctly a ligned with the RF level of 1.5Vp-p or more and the TE (servo open) level of 1.5Vp-p or more, the pickup is acceptable.	(a)
2	FOCUS GAIN	Test disc Type 4 Apply signal of 1.0kHz, 0.1Vrms to CN4 pin 2 and 3.	Connect a LPF to CN4 pin 2-3, to which connect an oscilloscope or two AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	FOCUS GAIN VR2	Two VTVMs should read the same value.	(b)
3	TRACKING GAIN	Test disc Type 4 Apply signal of 1.0kHz, 0.1Vrms to CN4 pin 5 and 6.	Connect a LPF to CN4 pin 5-6, to which connect an oscilloscope or two AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	TRACKING GAIN VR1	Two VTVMs should read the should value.	(c)

(NOTE) Type 4 disc : SONY YEDS-18 TEST DISC or equivalent.
LPF: around 47kohms+390pF or so.

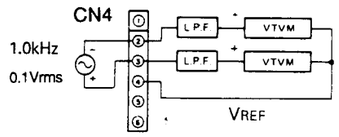
DP-1050/2050

(a) Laser Power

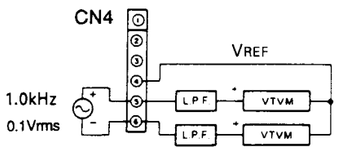


(b) Focus Gain, (c) Tracking Gein

Focus gain :

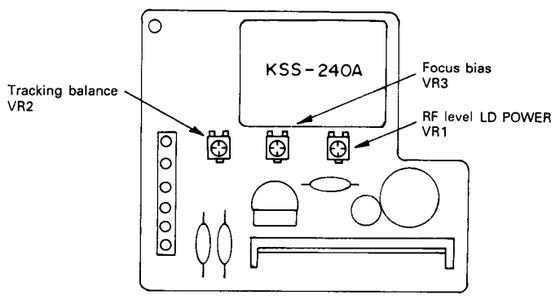


Tracking gain :



CAUTION

Pickup (KSS-240A) is adjustment free in repairing, please don't disassemble and adjust it.



DP-1050/2050

REGLAGE/ABGLEICH

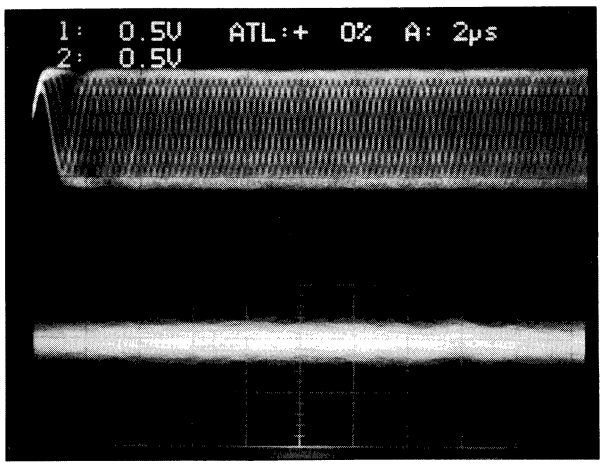
N°	ARTICLE	ENTREE	SORTIE	MISE EN FONCTIONNEMENT DU LECTEUR	POINT DE CONTROLE	CRITERE D'APPRECIATION	FIG.
1	PUISSANCE DU LASER	–	Appliquer la partie sensible de l'indicateur de puissance optique sur la lentille de lecture	Court-circuiter les broches "TEST" et sélectionner le mode d'essai. Appuyer sur la touche "MANUAL S. (⏩)" pour déplacer la tête de lecture vers l'extérieur. Appuyer sur la touche "0" pour vérifier que le disque laser émet une lumière. S'assurer ensuite que l'écran affiche "03".	–	Lorsqu'en cas de puissance de 0,08 à 0,15mW, le réseau de diffraction est correctement aligné sur un niveau de haute fréquence de 1,5 Vc-c ou plus et un niveau d'erreur de piste (servomécanisme ouvert) de 1,5 Vc-c ou plus, la tête de lecture est admissible.	(a)
2	GAIN DE FOCALISATION	Disque d'essai de type 4 Appliquer un signal de 1,0kHz, 0,1Veff. sur les broches 2 et 3 du CN4.	Brancher un filtre passe-bas aux broches 2-3 du CN4 et y connecter un oscilloscope ou deux voltmètres à CA.	Appuyer sur la touche "PLAY". S'assurer que l'écran affiche "05".	GAIN DE FOCALISATION VR2	Deux voltmètres doivent indiquer la même valeur.	(b)
3	GAIN D'ALIGNEMENT	Disque d'essai de type 4 Appliquer un signal de 1,0kHz, 0,1Veff. aux broches 5 et 6 du CN4.	Brancher un filtre passe-bas aux broches 5-6 du CN4 et y connecter un oscilloscope ou deux voltrmètres à CA.	Appuyer sur la touche "PLAY". S'assurer que l'écran affiche "05".	GAIN D'ALIGNEMENT VR1	Deux voltmétres doivent indiquer la même valeur.	(c)

(NOTE) Disque de type 4 : DISQUE D'ESSAI SONY YEDS-18 ou équivalent
Filtre passe-bas : autour de 47kohms+390pF environ

Nr.	Gegenstand	Eingang	Ausgang	Player	Abgleich	Abgleichen für	Abb
1	LASER-SPANNUNG	–	Sensorteil des optischen Leistungsmesser auf die Pickup-Linse setzen.	TEST-Kontakte kurzschließen und auf Testbetrieb schalten. MANUAL S. (⏩) drücken, um den Pickup nach oben zu bewegen. Taste "0" drücken, um zu prüfen, ob der LD Licht ausstrahlt. Sicherstellen, daß im Display "03" angezeigt wird.	–	Bei Eingangsleistung von 0,08 bis 0,15 mW ist der Pickup in Ordnung, wenn das optische Gitter korrekt auf den RF-Pegel von mindestens 1,5 Vss ausgerichtet ist und der TE-Pegel.	(a)
2	FOKUS-VERSTÄRKUNG	Test-Disc Typ 4. Den Kontakten 2 und 3 von CN4 ein Signal von 1,0kHz, 0,1Veff zuleiten.	Ein Tiefpaßfilter an die Kontakte 2 und 3 von CN4 anschließen, und ein Oszilloskop oder zwei Wechselstrom-Voltmeter anschließen.	Die PLAY-Taste drücken. Sicherstellen, daß im Display "05" angezeigt wird.	FOCUS GAIN VR2 (Potentiometer)	Zwei VTVM müssen den gleichen Wert zeigen.	(b)
3	SPURHALTE-VERSTÄRKUNG	Test-Disc Typ 4. Den Kontakten 5 und 6 von CN4 ein Signal von 1,0kHz, 0,1Veff zuleiten.	Ein Tiefpaßfilter an die Kontakte 5 und 6 von CN4 anschließen, und ein Oszilloskop oder zwei Wechselstrom-Voltmeter anschließen.	Die PLAY-Taste drücken. Sicherstellen, daß im Display "05" angezeigt wird.	TRACKING GAIN VR1 (Potentiometer)	Zwei VTVM müssen den gleichen Wert zeigen.	(c)

(Zur Beachtung) Test-Disc Typ 4 : Sony YEDS-18 Test-Disc oder gleichwertig.
Tiefpaßfilter : ca. 47kOhm+390pF

ADJUSTMENT



CH1
RF signal

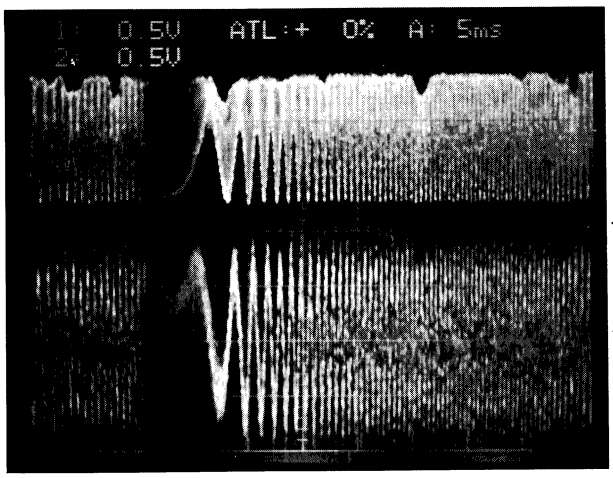
← 0(V)

← VREF

CH2
TE siganl

↑
16µs

- RF signal and E.Spot signal in test mode (PLAY).
- If the diffraction grating has been adjusted properly, the influence of triggering is observed on the E.Spot waveform of approx. 16µs after RF signal, in the form of a projection.



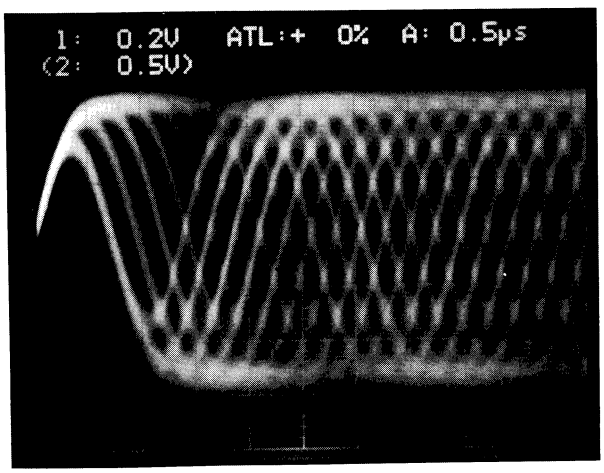
CH1
RF signal

← 0(V)

← VREF

CH2
TE signal

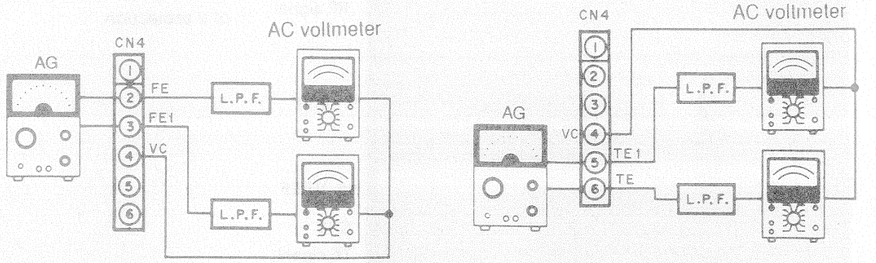
- RF signal and T.Error signal; in test mode (Focusing ON). (Disc type 4)



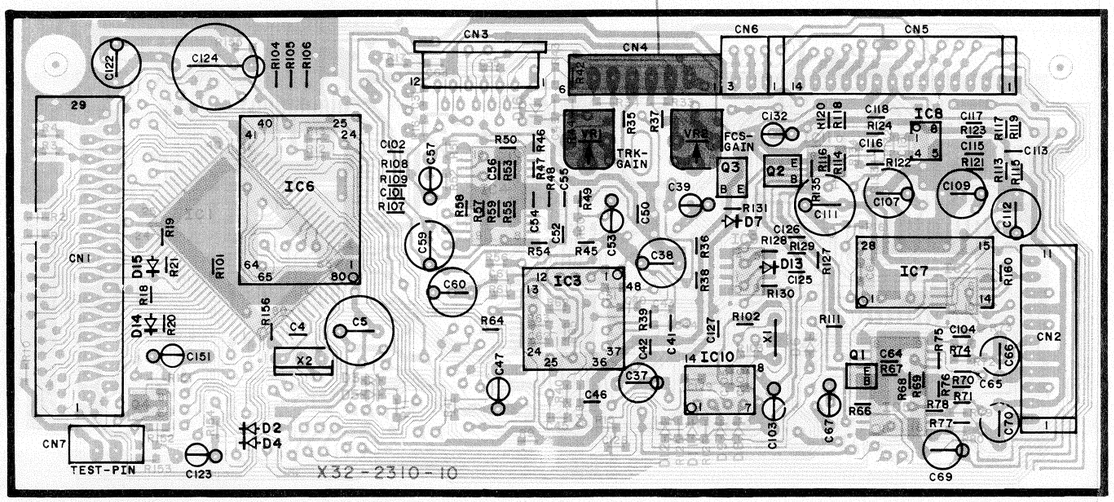
RF signal

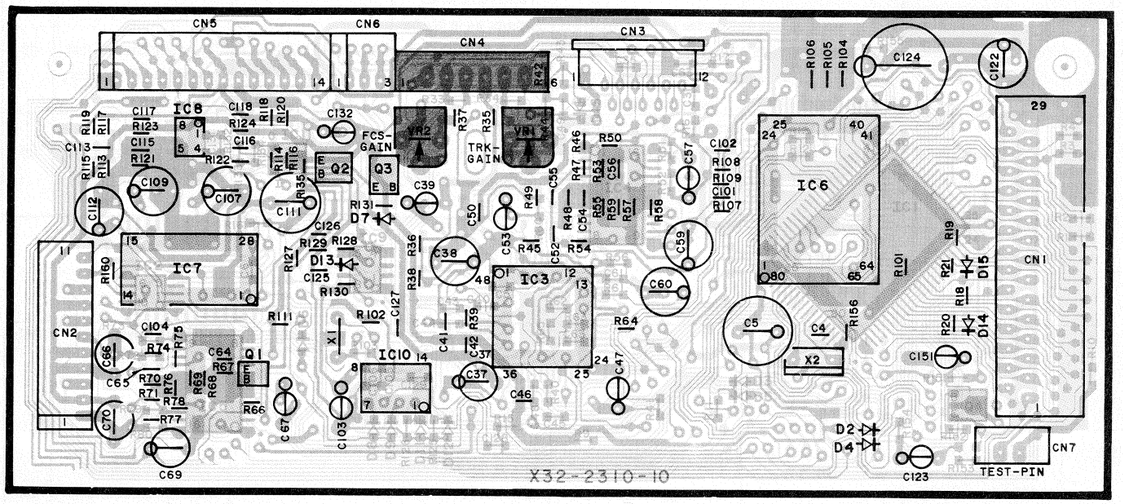
- RF signal in test mode (PLAY).

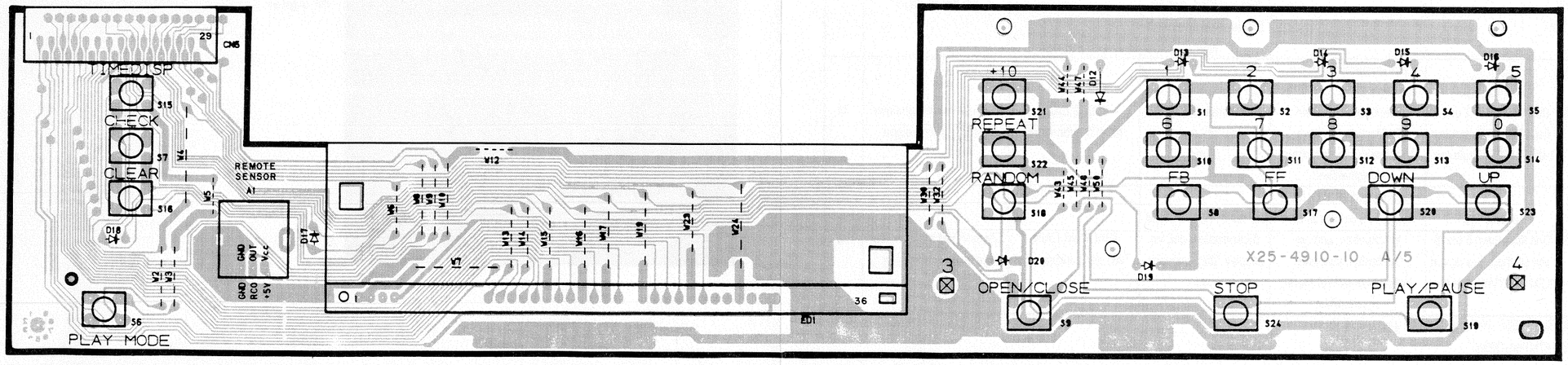
(b) Focus gain
: Two VTVMs should read the same value.



(c) Tracking gain
: Two VTVMs should read the same value.

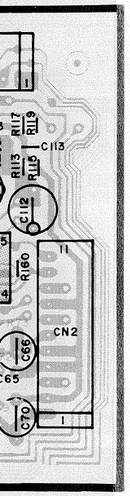


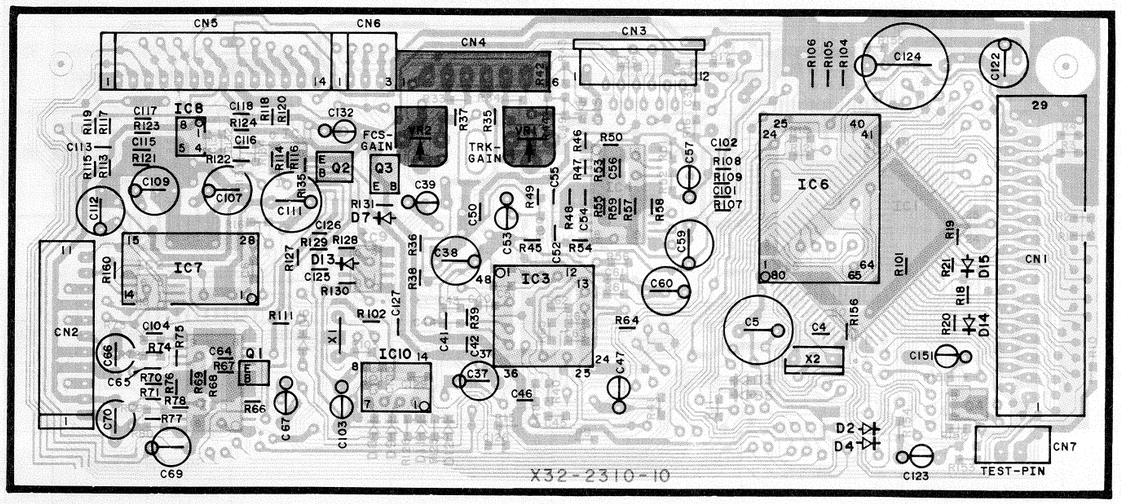


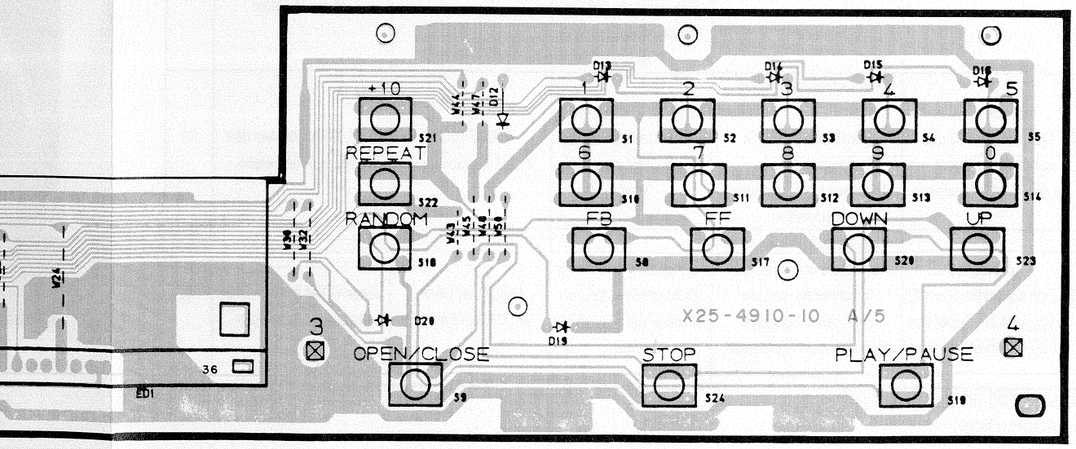


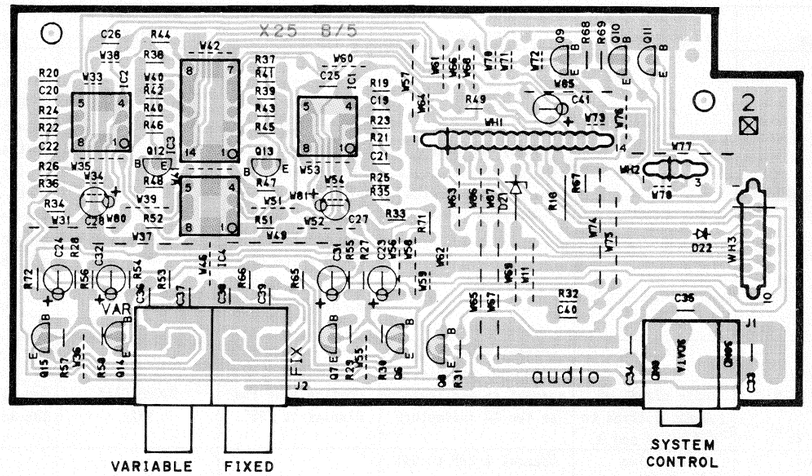
Refer to the schematic diagram for the values of resistors and capacitors.

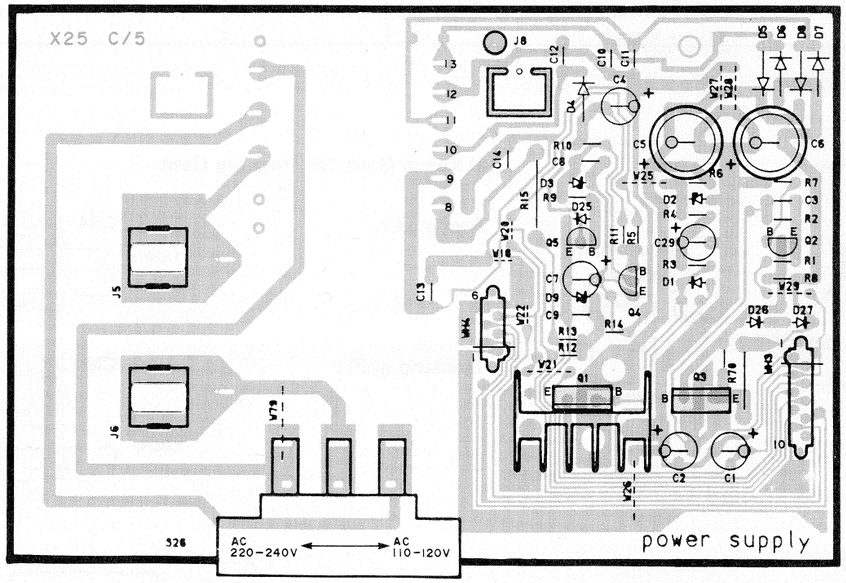
F G H I J K L M N O

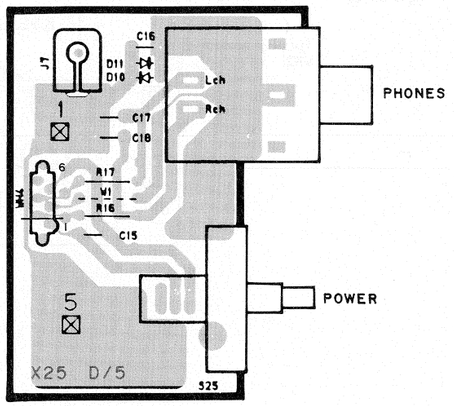



CN5
CN6
CN4
CN3
IC8
IC7
IC6
IC3
IC10
FCS-GAIN
TRK-GAIN
CN1
CN2
CN7
TEST-PIN
X32-2310-10


+10
REPEAT
RANDOM
OPEN/CLOSE
STOP
PLAY/PAUSE
FB
FF
DOWN
UP
X25-4910-10 A/5


X25 B/5
audio
VARIABLE
FIXED
LINE OUT
SYSTEM CONTROL


X25 C/5
power supply
AC 220-240V
AC 110-120V


PHONES
POWER
X25 D/5

MECHA. ASS'Y (CDM-22(3B)S)

(X25-4910-10)

(J70-0240 -02)(A/2)

WH2/2

FM+ GND SLS GND GND DM+

(J70-)(B/2)

WH1/2

CLOSE GND OPEN LM+ LM-

OPEN/ CLOSE SW

S1

LOADING MOTOR

(X92-1750-31)

FEED MOTOR

S2 SLT

DISC MOTOR

PICK UP (T25-0013-05)

TR1

LD POWER

PD & RF AMP

TRK BAL.

FCS BIAS

TRACKING COIL

FOCUS COIL

CN3

ADJUSTMENT

(X32-2310-10)

CN4

RF FE2 FE1 VC TE1 TE2

TE GAIN

FE GAIN

IC3

EFM COMPARATOR SERVO IC

(BOTTOM VIEW)

LOADING MOTOR DRIVER

IC2

DISC MOTOR DRIVER

IC5(1/2)

DISC MOTOR GAIN SW

Q1

IC4 (2/2)

FOCUS COIL DRIVER

IC5(2/2)

FEED MOTOR DRIVER

IC4 (1/2)

TRACKING COIL DRIVER

IC9

RESET

D13

Q3

D7

+5V AVR

Q2

IC11

D15 D14 D2 D4 D3 D5

CN2

FM+ GND SLS GND GND DM+ CLOSE GND OPEN LM+ LM-

IC6

DIGITAL SIGNAL PROCESSOR

MASTER CLOCK 16.9344MHz

IC10 (1/6)

IC10 (4/6)

IC10 (6/6)

IC10 (2/6)

IC10 (3/6)

IC7

D/A CONVERTER

L.P.F

IC8 (2/2)

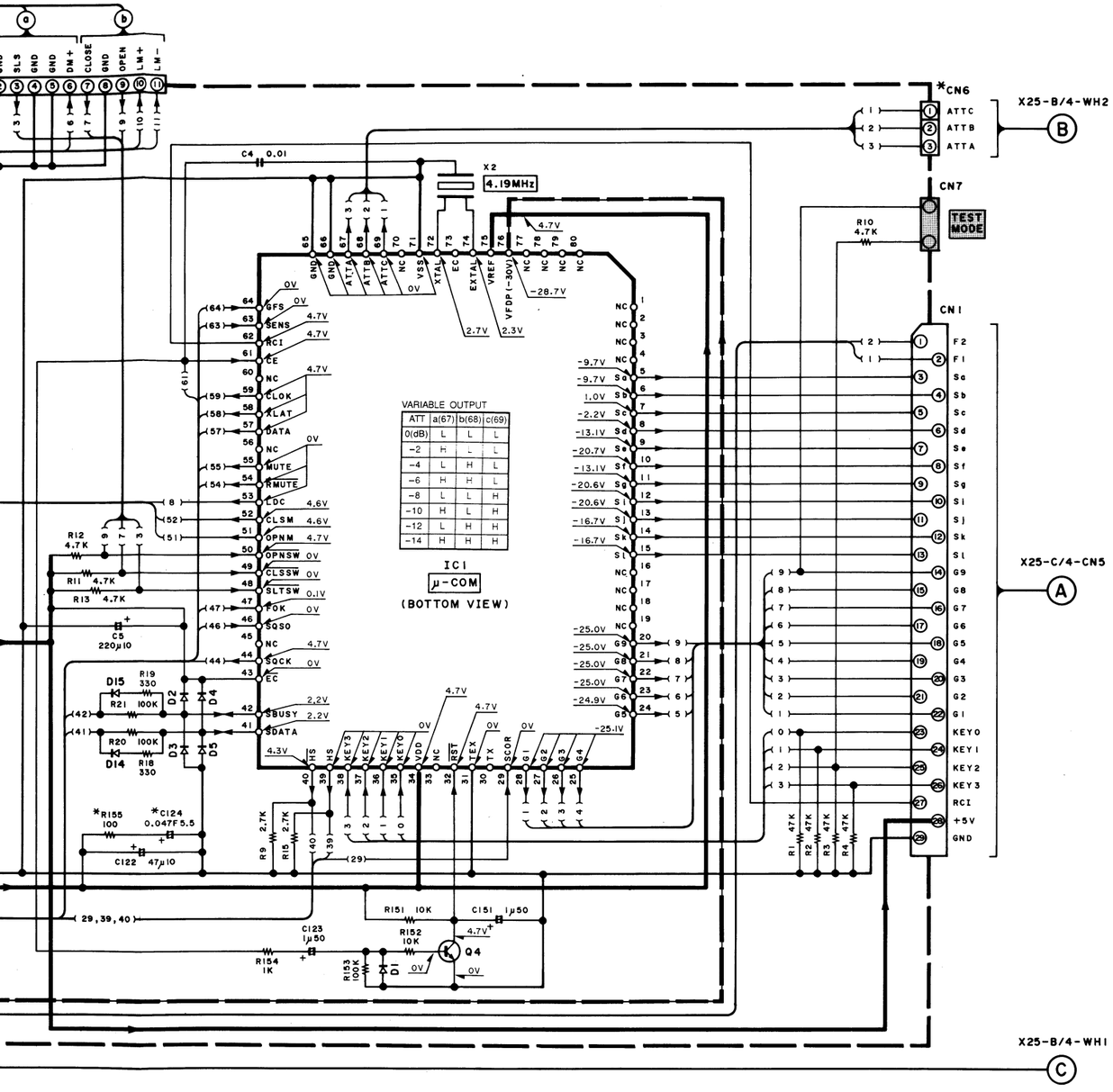
IC8 (1/2)

CN5

Rch GND Lch R-MUTE -B GND +B +5V D OUT BUSY S.DATA VLOAD F2 F1

PRODUCT-P.	MODEL NAME	DESTINATION		X92-1750-XX	X25-491X-XX
		COUNTRY	ABB.		
SINGAPORE MADE	DP-2050	U.S.A.	K	X92-1750-31 CDM-22(3B)S	X25-4910-10
		CANADA	P		X25-4911-01
		PX GENERAL MARKET	Y M		X25-4910-21
		AUSTRALIA ENGLAND EUROPE	X T E		X25-4912-72
	DP-1050	CANADA	P	X92-1750-21 CDM-22(2B)S	X25-4911-02
		GENERAL MARKET	M		X25-4910-22
		AUSTRALIA EUROPE	X E		X25-4912-72

PRODUCT-P.	MODEL NAME	DESTINATION		X92-1780-XX	X25-4962-7X
		COUNTRY	ABB.		
FRANCE MADE	DP-2050	ENGLAND EUROPE	T E	X92-1780-31 CDM-22(3)F	X25-4962-70
	DP-1050	ENGLAND EUROPE	T E	X92-1780-21 CDM-22(2)F	X25-4962-71



DESTINATION		X92-1750-XX	X25-491X-XX	X32-2310-XX	C124	R155	CN6
COUNTRY	ABB.						
U.S.A.	K	X92-1750-31 CDM-22(3B)S	X25-4910-10	X32-2310-10	YES	YES	NO
CANADA	P		X25-4911-01				YES
PX	Y		X25-4910-21				YES
NERAL MARKET	M						
AUSTRALIA	X		X25-4912-72				YES
ENGLAND	T						
EUROPE	E						
CANADA	P	X92-1750-21 CDM-22(2B)S	X25-4911-02	X32-2310-11	NO	NO	NO
NERAL MARKET	M		X25-4910-22				
AUSTRALIA	X		X25-4912-72				
EUROPE	E						

DESTINATION		X92-1780-XX	X25-4962-7X	X32-2360-XX	C124	R155	CN6
COUNTRY	ABB.						
ENGLAND	T	X92-1780-31 CDM-22(3)F	X25-4962-70	X32-2310-10	YES	YES	YES
EUROPE	E						
ENGLAND	T	X92-1780-21 CDM-22(2)F	X25-4962-71	X32-2360-11	NO	NO	NO
EUROPE	E						

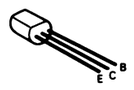
IC1 : CXP50112-396Q
IC2 : TA8409F
IC3 : CXA1372Q
IC4,5 : TA8406F
IC6 : CXD2500AQ
IC7 : SM5871AS
IC8 : NJM4565M
IC9 : XRA10393F
IC10 : TC74HCU04AF
IC11 : M5237ML

Q1 : DTC124EK
Q2 : 2SB1308(Q,R)
Q3,4 : 2SD1963Q(R,S)

D1~9,11,12,14~16 : MA110
D13 : DTZ2.7(B) or MA8027-H

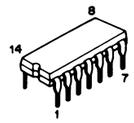
SIGNAL LINE
GND LINE
+B LINE
-B LINE

2SA1534A
2SC2878

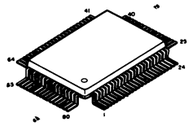


2SB1308

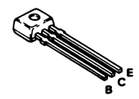
TC4066BP



CXD2500AQ

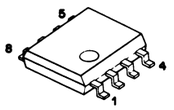


2SA1175
2SC2785

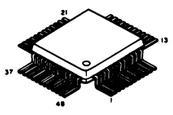


2SD1944

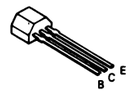
NJM4565M



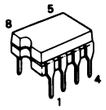
CXA1372Q



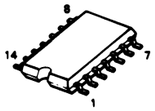
2SA933S
2SC1740S



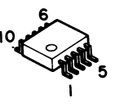
NJM4565D



TC74HCU04AF

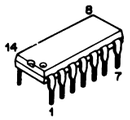


TA8409F

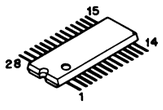


DTC124EK

XRU4066B



SM5871AS



M5237ML

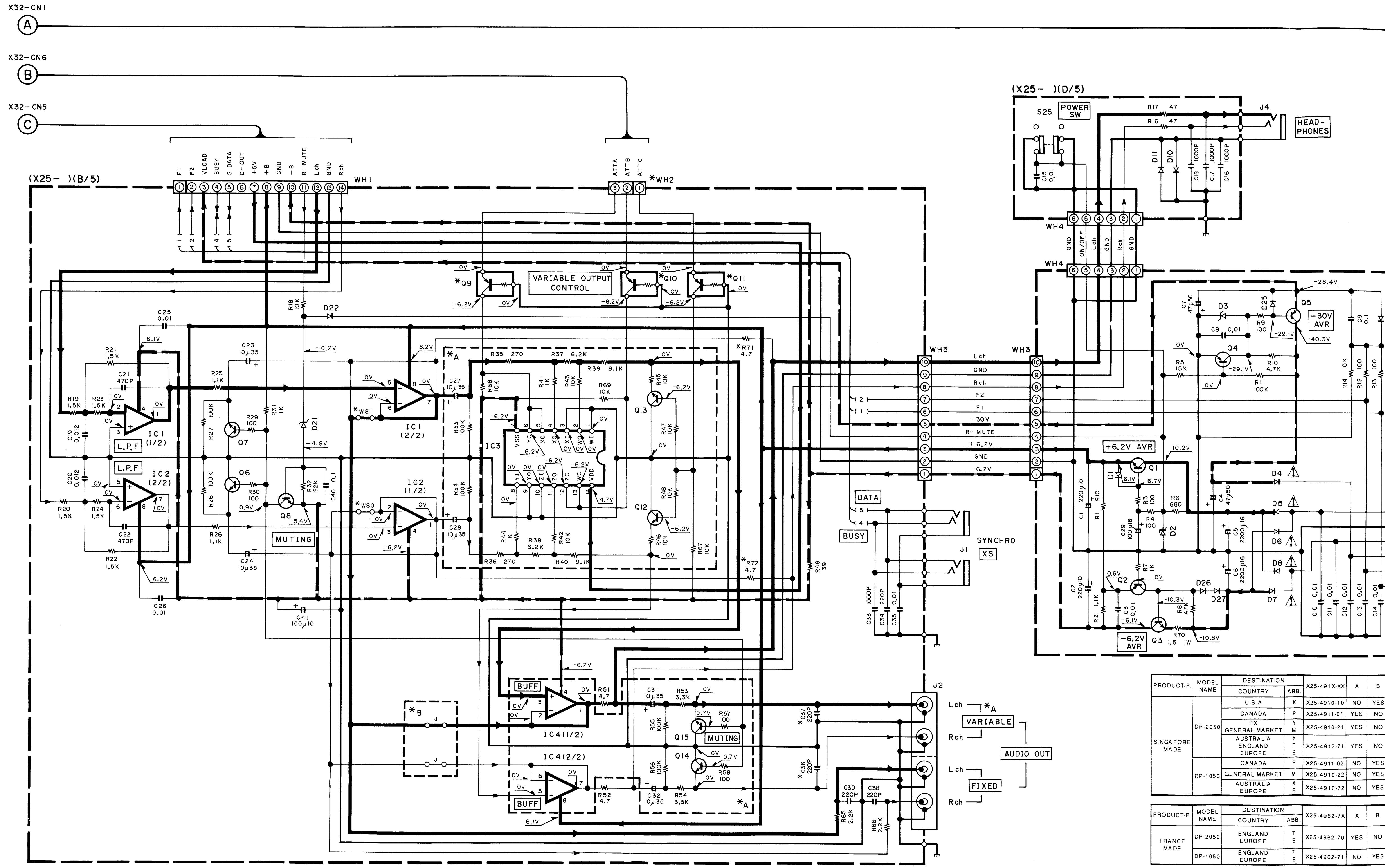
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units

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.

Y22-2930-10

DP-1050/2050

KENWOOD



PRODUCT-P.	MODEL NAME	DESTINATION COUNTRY	ABB.	X25-491X-XX	A	B
SINGAPORE MADE	DP-2050	U.S.A	K	X25-4910-10	NO	YES
		CANADA	P	X25-4911-01	YES	NO
		PX GENERAL MARKET	Y M	X25-4910-21	YES	NO
		AUSTRALIA ENGLAND EUROPE	X T E	X25-4912-71	YES	NO
	DP-1050	CANADA	P	X25-4911-02	NO	YES
		GENERAL MARKET	M	X25-4910-22	NO	YES
		AUSTRALIA EUROPE	X E	X25-4912-72	NO	YES

PRODUCT-P.	MODEL NAME	DESTINATION COUNTRY	ABB.	X25-4962-7X	A	B
FRANCE MADE	DP-2050	ENGLAND EUROPE	T E	X25-4962-70	YES	NO
	DP-1050	ENGLAND EUROPE	T E	X25-4962-71	NO	YES

IC1,2,4 : NJM4565D
IC3 : XRU4066B or TC4066BP

Q1,3 : 2SD1944
Q2,4 : 2SA1175(F,E) or 2SA933S(Q,R)
Q5 : 2SA1534A(R,S)
Q6,7,12~15 : 2SC2878(B)
Q8 : 2SC2785(F,E) or 2SC1740S(Q,R)
Q9~11 : DTA113ZS or UN4119

D1,10~20,22,25~27 : HSS104 or 1SS133
D2,9 : HZS6.8N(B2) or RD6.8ES(B2)
D3 : HZS30N(B2) or RD30EN(B2)
D4~8 : 1SR139-100 or S5688B
D21 : HZS5.6N(B2) or RD5.6ES(B2)

SIGNAL LINE
GND LINE
+B LINE
−B LINE

J4 HEAD-PHONES

(X25-)(C/5)

-28.4V, Q5, -30V AVR, -29.1V, -40.3V, D25, R9 100, R10 4.7K, R11 100K, R14 10K, R12 100, R13 100, C9 0.1, D9, D4, D5, D6, D8, D7, C5 2200μ16, C6 2200μ16, C10 0.01, C11 0.01, C12 0.01, C13 0.01, C14 0.01, R15 3.9 2W

AC110-120V ◀▶ AC220-240V
*S26
*W79
AC IN J6 J5
(K,P) AC120V 60Hz
(Y,M) AC110-120V/220-240V 50/60Hz
(X,T) AC240V 50Hz
(E) AC220V 50Hz

T1
(K,E) 220~240V
(M) 110~120V
(M) 220~240V

(X25-4910-10)(A/5)

*A1 REMOTE SENSOR (GND, OUT, VCC)

CN5: GND, +5V, RC I, KEY3, KEY2, KEY1, KEY0, G1, G2, G3, G4, G5, G6, G7, G8, G9, S1, Sk, Sj, Si, Sg, Sf, Se, Sd, Sc, Sb, Sa, F1, F2

DI2 G1: 1, 6, S1, S10
DI3 G2: 2, 7, S2, S11
DI4 G3: 3, 8, S3, S12
DI5 G4: 4, 9, S4, S13
DI6 G5: 5, 0, S5, S14
DI7 G6: P-MODE, TIME DISP, +10, S6, S15, S21
DI8 G7: CHECK, CLEAR, PLAY/PAUSE, REPEAT, S7, S16, S19, S22
DI9 G8: FB, FF, DOWN, UP, S8, S17, S20, S23
D20 G9: OPEN/CLOSE, RANDOM, STOP, S9, S18, S24

K0, K1, K2, K3

ED1: TRACK, PGM, REPEAT, TRACK NO., CCRS EDIT, P.C., SINGLE TOTAL, A TIME, B TIME

DP-2050(K)/DP-1050(E)(2/2)

DESTINATION		X25-491X-XX	A	B	Q9~11	R71, 72	WH2	C36, 37	S26	A1	W79	W80, 81
COUNTRY	ABB.											
U.S.A	K	X25-4910-10	NO	YES	NO	YES	NO	NO	NO	YES	YES	YES
CANADA	P	X25-4911-01	YES	NO	YES	NO	YES	YES	NO	YES	YES	NO
PX GENERAL MARKET	Y M	X25-4910-21	YES	NO	YES	NO	YES	YES	YES	YES	NO	NO
AUSTRALIA ENGLAND EUROPE	X T E	X25-4912-71	YES	NO	YES	NO	YES	YES	NO	YES	YES	NO
CANADA	P	X25-4911-02	NO	YES	NO	YES	NO	NO	NO	NO	YES	YES
GENERAL MARKET	M	X25-4910-22	NO	YES	NO	YES	NO	NO	YES	NO	NO	YES
AUSTRALIA EUROPE	X E	X25-4912-72	NO	YES	NO	YES	NO	NO	NO	NO	YES	YES

DESTINATION		X25-4962-7X	A	B	Q9~11	R71, 72	WH2	C36, 37	S26	A1	W79	W80, 81
COUNTRY	ABB.											
ENGLAND EUROPE	T E	X25-4962-70	YES	NO	YES	NO	YES	YES	NO	YES	YES	NO
ENGLAND EUROPE	T E	X25-4962-71	NO	YES	NO	YES	NO	NO	NO	NO	YES	YES

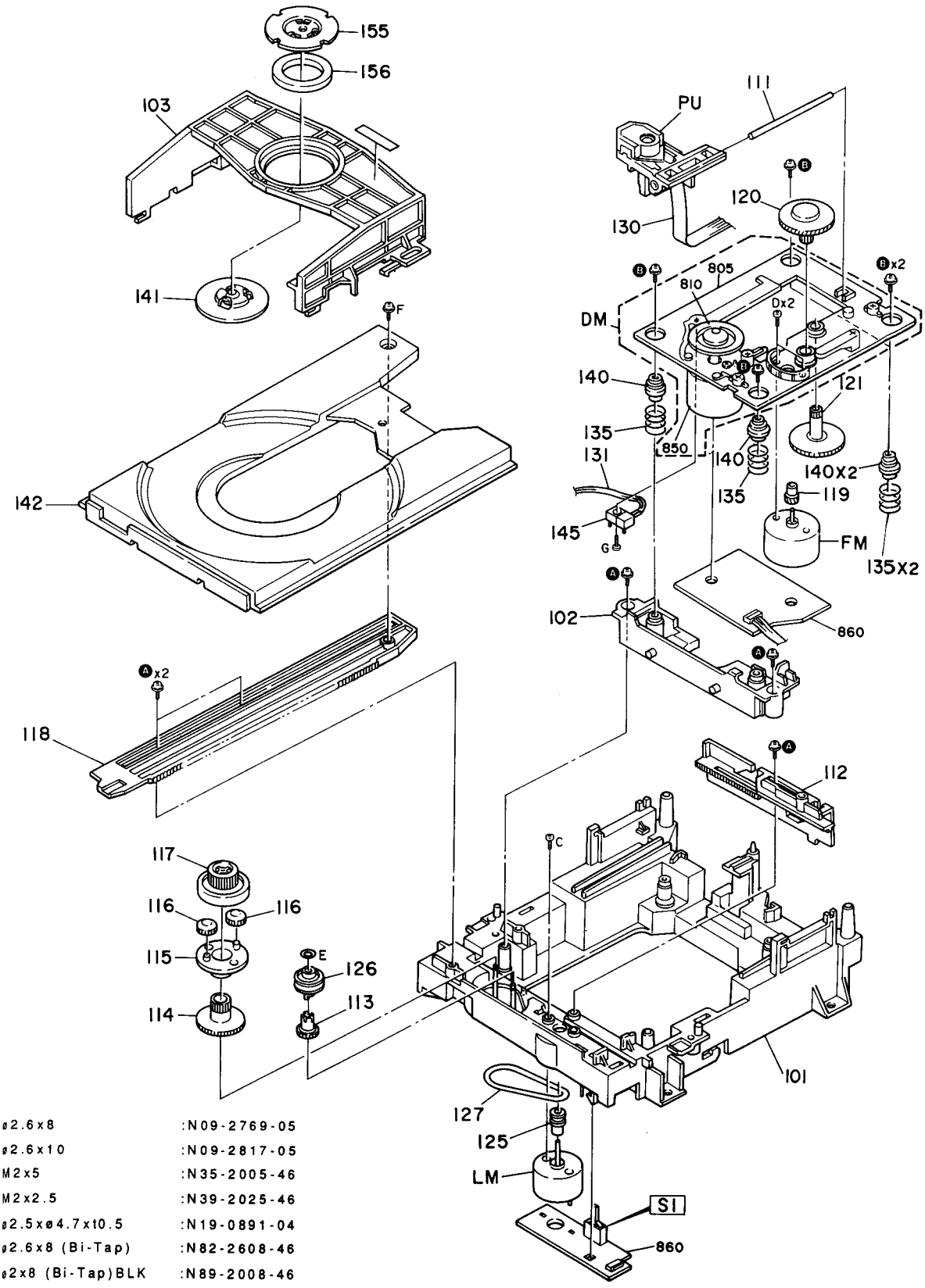
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

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.

Y22-2930-10

DP-1050/2050
KENWOOD

EXPLODED VIEW (MECHANISM) : SINGAPORE MADE

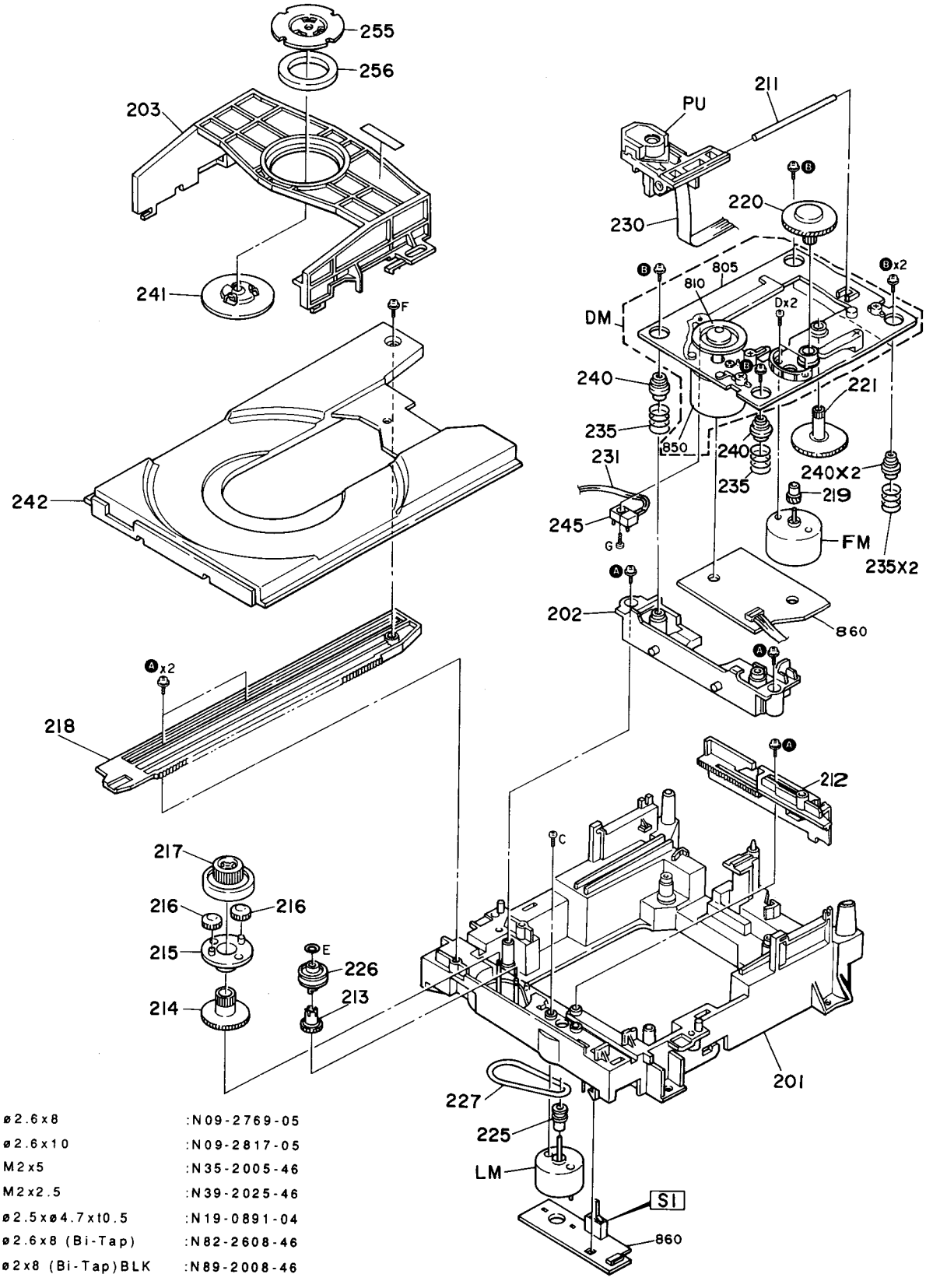


A ø2.6x8	:N09-2769-05
B ø2.6x10	:N09-2817-05
C M2x5	:N35-2005-46
D M2x2.5	:N39-2025-46
E ø2.5xø4.7xt0.5	:N19-0891-04
F ø2.6x8 (Bi-Tap)	:N82-2608-46
G ø2x8 (Bi-Tap)BLK	:N89-2008-46

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

DP-1050/2050

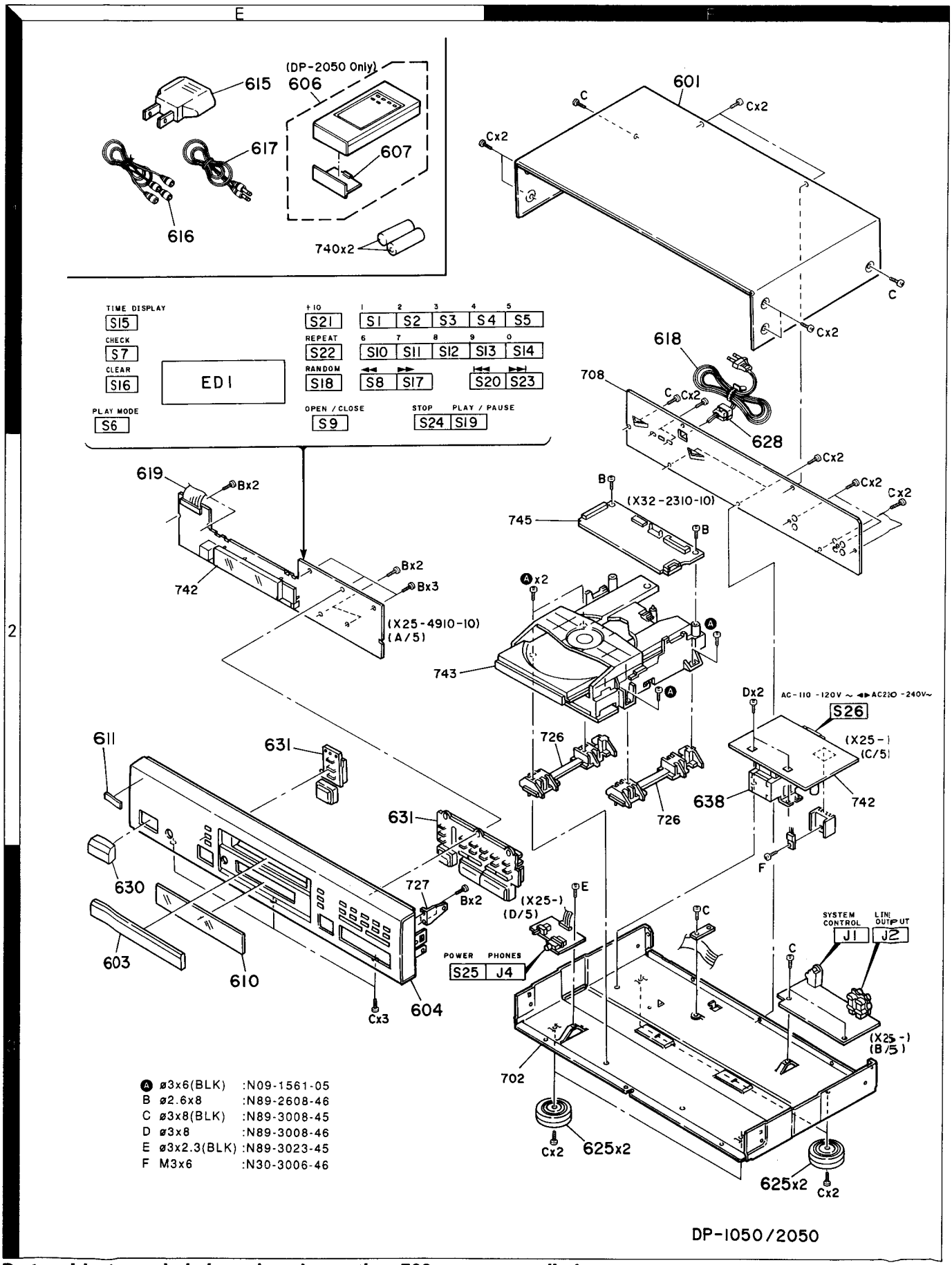
EXPLODED VIEW (MECHANISM) : FRANCE MADE



A ø2.6x8	:N09-2769-05
B ø2.6x10	:N09-2817-05
C M2x5	:N35-2005-46
D M2x2.5	:N39-2025-46
E ø2.5xø4.7xt0.5	:N19-0891-04
F ø2.6x8 (Bi-Tap)	:N82-2608-46
G ø2x8 (Bi-Tap)BLK	:N89-2008-46

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

EXPLODED VIEW (UNIT)



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DP-1050/2050

PARTS LIST

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	Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
				DP-1050			
	601	1F		A01-1890-01	METALLIC CABINET		
	603	3E		A29-0314-03	PANEL (TRAY)		
	604	3E	*	A60-0289-01	PANEL		
	610	3E		B10-1944-03	FRONT GLASS		
	611	2E		B43-0287-04	KENWOOD BADGE		
	-			B46-0096-33	WARRANTY CARD	X	
	-			B46-0121-13	WARRANTY CARD	P	
	-			B46-0122-23	WARRANTY CARD	E	
	-			B46-0184-13	WARRANTY CARD	T	F
	-			B60-0887-00	INSTRUCTION MANUAL(ENGLISH)		
	-			B60-0888-00	INSTRUCTION MANUAL(FRENCH)	PE	
	-			B60-0889-00	INSTRUCTION MANUAL(CHINESE)	M	
	-			B60-0890-00	INSTRUCTION MANUAL(G/D/I)	E	
	-			B60-0891-00	INSTRUCTION MANUAL(SPANISH)	ME	
⚠	615	1E		E03-0115-05	AC PLUG ADAPTER	M	
	616	1E		E30-0505-05	AUDIO CORD		
	617	1E		E30-1392-05	CORD WITH PLUG		
⚠	618	1F		E30-2274-15	AC POWER CORD	P	
⚠	618	1F		E30-2275-15	AC POWER CORD	X	
	618	1F		E30-2276-15	AC POWER CORD	T	F
⚠	618	1F		E30-2277-15	AC POWER CORD	ME	
	619	2E		E35-0384-05	FLAT CABLE		
	-		*	H10-5316-12	POLYSTYRENE FOAMED FIXTURE		
	-			H10-5317-02	POLYSTYRENE FOAMED FIXTURE		
	-		*	H10-5344-12	POLYSTYRENE FOAMED FIXTURE		F
	-			H10-5345-02	POLYSTYRENE FOAMED FIXTURE		F
	-			H20-0554-04	PROTECTION COVER	M	
	-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
	-			H25-0330-04	PROTECTION BAG	PXE	
	-			H25-0651-04	PROTECTION BAG (235X350X0.03)	T	F
	-			H25-0658-04	PROTECTION BAG	T	F
	-		*	H50-0386-04	ITEM CARTON CASE		F
	-		*	H50-0453-04	ITEM CARTON CASE	PXE	
	-		*	H50-0454-04	ITEM CARTON CASE	M	
	625	3F		J02-1034-05	FOOT		
⚠	628	2F		J42-0083-05	POWER CORD BUSHING		
	630	3E		K27-2080-04	KNOB (BUTTON)		
	631	2E		K29-4418-12	KNOB		
⚠	638	2F		L07-0586-05	POWER TRANSFORMER	P	
⚠	638	2F		L07-0587-05	POWER TRANSFORMER	M	
⚠	638	2F		L07-0588-05	POWER TRANSFORMER	XE	
				DP-2050			
	601	1F		A01-1890-01	METALLIC CABINET		
	603	3E	*	A29-0314-03	PANEL (TRAY)		
	604	3E	*	A60-0241-01	PANEL		
	606	1E		A70-0529-05	REMOTE CONTROLLER ASSY	PYMXTE	
	606	1E		A70-0532-05	REMOTE CONTROLLER ASSY	K	
	607	1E		A09-0110-08	BATTERY COVER		
	610	3E	*	B10-1944-03	FRONT GLASS		

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	611	2E		B43-0287-04	KENWOOD BADGE		
	-			B46-0092-13	WARRANTY CARD	K	
	-			B46-0094-03	WARRANTY CARD	Y	
	-			B46-0095-03	WARRANTY CARD	Y	
	-			B46-0096-33	WARRANTY CARD	X	
	-			B46-0121-13	WARRANTY CARD	P	
	-			B46-0122-23	WARRANTY CARD	E	
	-			B46-0143-13	WARRANTY CARD	T	
	-			B46-0197-00	QUESTIONAIRE CARD	K	
	-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
	-		*	B60-0887-00	INSTRUCTION MANUAL (ENGLISH)		
	-		*	B60-0888-00	INSTRUCTION MANUAL (FRENCH)	PE	
	-		*	B60-0889-00	INSTRUCTION MANUAL (CHINESE)	M	
	-		*	B60-0890-00	INSTRUCTION MANUAL (G/D/I)	E	
	-		*	B60-0891-00	INSTRUCTION MANUAL (SPANISH)	ME	
⚠	615	1E		E03-0115-05	AC PLUG ADAPTER	M	
	616	1E		E30-0505-05	AUDIO CORD		
	617	1E		E30-1392-05	CORD WITH PLUG		
⚠	618	1F		E30-2274-15	AC POWER CORD	KP	
⚠	618	1F		E30-2275-15	AC POWER CORD	X	
⚠	618	1F		E30-2276-15	AC POWER CORD	T	
⚠	618	1F		E30-2277-15	AC POWER CORD	ME	
⚠	618	1F		E30-2284-15	AC POWER CORD	Y	
	619	2E		E35-0384-05	FLAT CABLE		
	-		*	H10-5316-12	POLYSTYRENE FOAMED FIXTURE		
	-		*	H10-5317-02	POLYSTYRENE FOAMED FIXTURE		
	-		*	H10-5344-12	POLYSTYRENE FOAMED FIXTURE		F
	-		*	H10-5345-02	POLYSTYRENE FOAMED FIXTURE		F
	-			H20-0554-04	PROTECTION COVER	M	
	-			H25-0232-04	PROTECTION BAG (235X350X0.03)	KPYMXE	
	-			H25-0330-04	PROTECTION BAG	KPYXE	
	-			H25-0651-04	PROTECTION BAG	T	
	-			H25-0658-04	PROTECTION BAG	T	
	-		*	H50-0350-04	ITEM CARTON CASE	KPYXTE	
	-		*	H50-0351-04	ITEM CARTON CASE	M	
	-		*	H50-0385-04	ITEM CARTON CASE		F
	625	3F		J02-1034-05	FOOT		
⚠	628	2F		J42-0083-05	POWER CORD BUSHING		
	630	3E	*	K27-2080-04	KNOB (BUTTON)		
	631	2E	*	K29-4418-12	KNOB		
⚠	638	2F	*	L07-0586-05	POWER TRANSFORMER	KP	
⚠	638	2F	*	L07-0587-05	POWER TRANSFORMER	YM	
⚠	638	2F	*	L07-0588-05	POWER TRANSFORMER	XTE	
	MECHANISM PCB (X25-4840-21)						
	S1			S33-2062-05	LEVER SWITCH		
	OPERATION UNIT (X25-4910)						
	C1 ,2			CE04LW1A221MCC	ELECTRO 220UF 10WV		
	C3			CK45FF1H103Z	CERAMIC 0.010UF Z		
	C4			CE04LW1H470MCC	ELECTRO 47UF 50WV		
	C5 ,6			CE04LW1C222MCC	ELECTRO 2200UF 16WV		
	C7			CE04LW1H470MCC	ELECTRO 47UF 50WV		
	C8			CK45FF1H103Z	CERAMIC 0.010UF Z		

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DP-1050/2050

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	Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
	C9			CF92FV1H104J	MF 0.10UF J		
	C10 -15			CK45FF1H103Z	CERAMIC 0.010UF Z		
	C16 -18			CK45FB1H102K	CERAMIC 1000PF K		
	C19 ,20			CF92FV1H123J	MF 0.012UF J		
	C21 ,22			CF92FV1H471J	MF 470PF J		
	C23 ,24			CE04LW1V100MCC	ELECTRO 10UF 35WV		
	C25			CK45FF1H103Z	CERAMIC 0.010UF Z	K	
	C25 ,26			CK45FF1H103Z	CERAMIC 0.010UF Z	PYMXTE	
	C27 ,28			CE04LW1V100MCC	ELECTRO 10UF 35WV	PYMXTE	
	C29			CE04LW1C101MCC	ELECTRO 100UF 16WV		
	C30			CK45FF1H103Z	CERAMIC 0.010UF Z		
	C31 ,32			CE04LW1V100MCC	ELECTRO 10UF 35WV	PYMXTE	
	C33			CK45FB1H102K	CERAMIC 1000PF K		
	C34			CC45FSL1H221J	CERAMIC 220PF J		
	C35			CK45FF1H103Z	CERAMIC 0.010UF Z		
	C36 -39			CC45FSL1H221J	CERAMIC 220PF J	PYMXTE	
	C38 ,39			CC45FSL1H221J	CERAMIC 220PF J	K	
	C40			CF92FV1H104J	MF 0.10UF J		
	C41			CE04LW1A101MCC	ELECTRO 100UF 10WV		
	J1	3F		E11-0188-05	MINIATURE PHONE JACK		
	J2	3F		E13-2208-05	PHONO JACK (2P)	K	1
	J2	3F		E63-0007-05	PHONO JACK (4P)	PYMXTE	2
	J4	3F		E11-0208-05	PHONE JACK		
	-			F01-1889-05	HEAT SINK		
	-			J11-0098-05	WIRE CLAMPER		
	-			J19-3392-04	HOLDER		
	-			J21-5159-04	MOUNTING HARDWARE	YMXTE	
	R15			RS14KB3D3R9J	FL-PROOF RS 3.9 J 2W		
	R70			RS14KB3A1R5J	FL-PROOF RS 1.5 J 1W		
	S1 -24			S40-1064-05	PUSH SWITCH		
	S25	3E		S40-2370-05	PUSH SWITCH (POWER)		
⚠	S26	2F		S31-2131-05	SLIDE SWITCH (POWER VOLT)	YM	
	D1			HSS104	DIODE		
	D1			1SS133	DIODE		
	D2			HZS6.8N(B2)	ZENER DIODE		
	D2			RD6.8ES(B2)	ZENER DIODE		
	D3			HZS30N(B2)	ZENER DIODE		
	D3			RD30ES(B2)	ZENER DIODE		
⚠	D4 -8			S5688B	DIODE		
⚠	D4 -8			1SR139-100	DIODE		
	D9			HZS6.8N(B2)	ZENER DIODE		
	D9			RD6.8ES(B2)	ZENER DIODE		
	D10 -20			HSS104	DIODE		
	D10 -20			1SS133	DIODE		
	D21			HZS5.6N(B2)	ZENER DIODE		
	D21			RD5.6ES(B2)	ZENER DIODE		
	D22			HSS104	DIODE		
	D22			1SS133	DIODE		
	D25 -27			HSS104	DIODE		
	D25 -27			1SS133	DIODE		
	ED1			FIP9KM5	INDICATOR TUBE		
	IC1 ,2			NJM4565D	IC(OP AMP X2)		

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PARTS LIST

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IC3			TC4066BP	IC(ANALOG/ DIGITAL SW)	PYMXTE	2
IC3			XRU4066B	IC(ANALOG SWITCH)	PYMXTE	2
IC4			NJM4565D	IC(OP AMP X2)	PYMXTE	2
Q1			2SD1944	TRANSISTOR		
Q2			2SA1175(F,E)	TRANSISTOR		
Q2			2SA933S(Q,R)	TRANSISTOR		
Q3			2SD1944	TRANSISTOR		
Q4			2SA1175(F,E)	TRANSISTOR		
Q4			2SA933S(Q,R)	TRANSISTOR		
Q5			2SA1534A(R,S)	TRANSISTOR		
Q6 ,7			2SC2878(B)	TRANSISTOR		
Q8			2SC1740S(Q,R)	TRANSISTOR		
Q8			2SC2785(F,E)	TRANSISTOR		
Q9 -11			DTA113ZS	DIGITAL TRANSISTOR	PYMXTE	2
Q9 -11			UN4119	TRANSISTOR	PYMXTE	2
Q12 -15			2SC2878(B)	TRANSISTOR	PYMXTE	2
A1			W02-1046-05	ELECTRIC CIRCUIT MODULE		2
PROCESSOR UNIT (X32-2310-10, X32-2360-10)						
C4			CK73FB1H103K	CHIP C 0.010UF K		
C5			C90-3223-05	ELECTRO 220UF 10WV		
C6			CC73FSL1H050J	CHIP C 5.0PF J		
C31			CK73FB1E104K	CHIP C 0.10UF K		
C35			CC73FSL1H101J	CHIP C 100PF J		
C37 ,38			C90-3227-05	ELECTRO 33UF 16WV		
C39			C90-3253-05	ELECTRO 1UF 50WV		
C40			CK73FB1E104K	CHIP C 0.10UF K		
C41			CC73FSL1H470J	CHIP C 47PF J		
C42			CK73FB1H332K	CHIP C 3300PF K		
C43			CK73FB1H222K	CHIP C 2200PF K		
C44			CK73FB1H103K	CHIP C 0.010UF K		
C45			CK73FB1E104K	CHIP C 0.10UF K		
C46			CK73FB1E563K	CHIP C 0.056UF K		
C47			C90-3251-05	ELECTRO 0.47UF 50WV		
C48			CK73FB1H103K	CHIP C 0.010UF K		
C49			CK73FB1E104K	CHIP C 0.10UF K		
C50			CK73FB1H561K	CHIP C 560PF K		
C51 ,52			CK73FB1H333K	CHIP C 0.033UF K		
C53			C90-3209-05	ELECTRO 10UF 6.3WV		
C54			CK73FB1H222K	CHIP C 2200PF K		
C55			CK73FB1H152K	CHIP C 1500PF K		
C56			CC73FSL1H820J	CHIP C 82PF J		
C57			C90-3254-05	ELECTRO 2.2UF 50WV		
C59 ,60			C90-3227-05	ELECTRO 33UF 16WV		
C61 ,62			CK73FB1H103K	CHIP C 0.010UF K		
C63			CK73FB1E104K	CHIP C 0.10UF K		
C64			CK73FB1H223K	CHIP C 0.022UF K		
C65			CK73FB1H332K	CHIP C 3300PF K		
C66		*	C90-3472-05	ELECTRO 2.2UF 50WV		
C67			C90-3210-05	ELECTRO 22UF 6.3WV		
C69			C90-3254-05	ELECTRO 2.2UF 50WV		
C70		*	C90-3472-05	ELECTRO 2.2UF 50WV		
C101			CK73FB1H473K	CHIP C 0.047UF K		
C102			CK73FB1H152K	CHIP C 1500PF K		

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DP-1050/2050

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C103			C90-3210-05	ELECTRO 22UF 6.3WV		
C104			CK73FB1H103K	CHIP C 0.010UF K		
C105,106			CC73FSL1H100J	CHIP C 10PF J		
C107-109			C90-3228-05	ELECTRO 47UF 16WV		
C111			C90-3223-05	ELECTRO 220UF 10WV		
C112			C90-3214-05	ELECTRO 100UF 6.3WV		
C113,114			CK73FB1H221K	CHIP C 220PF K		
C115-118			CC73FCH1H331J	CHIP C 330PF J		
C122			C90-3220-05	ELECTRO 47UF 10WV		
C123			C90-3253-05	ELECTRO 1UF 50WV		
C124			C90-1827-05	BACKUP 0.047F 5.5WV		2
C125-127			CK73FB1H103K	CHIP C 0.010UF K		
C128,129			CK73FB1E104K	CHIP C 0.10UF K		
C131			CK73FB1H222K	CHIP C 2200PF K		
C132			C90-3253-05	ELECTRO 1UF 50WV		
C151			C90-3253-05	ELECTRO 1UF 50WV		
CN1			E40-4209-05	FLAT CABLE CONNCTOR		
CN3			E40-4631-05	FLAT CABLE CONNCTOR		
X1			L77-2109-05	CRYSTAL RESONATOR (16.9344MHZ)		
X2			L78-0267-05	RESONATOR (4.19MHZ)		
VR1 ,2			R12-3686-05	TRIMMING POT.(22K)		
D1 -9			MA110	DIODE		
D11 ,12			MA110	DIODE		
D13			DTZ2.7(B)	ZENER DIODE		
D13		*	MA8027-H	ZENER DIODE		
D14 -16			MA110	DIODE		
IC1		*	CXP50112-396Q	IC		
IC2			TA8409F	IC(MOTOR DRIVER)		
IC3			CXA1372Q	IC(CD RF SERVO)		
IC4 ,5			TA8406F	IC		
IC6			CXD2500AQ	IC(SIGNAL PROCESSOR)		
IC7			SM5871AS	IC(D/A CONVERTER)		
IC8			NJM4565M	IC(OP AMP)		
IC9			XRA10393F	IC		
IC10			TC74HCU04AF	IC(HEX INVERTER SMD)		
IC11			M5237ML	IC(VOLTAGE REGULATOR)		
Q1			DTC124EK	DIGITAL TRANSISTOR		
Q2			2SB1308(Q,R)	TRANSISTOR		
Q3 ,4			2SD1963Q(R,S)	TRANSISTOR		
MECHANISM ASSY : SINGAPORE MADE (X92-1750-XX)						
101	3B	*	A10-2974-01	CHASSIS (MAIN)		
102	2B		A11-0756-03	SUB CHASSIS (FRAME)		
103	1A		A11-0757-02	SUB CHASSIS (CLAMPER)		
111	1B		D10-2490-04	ROD		
112	2B		D10-3253-03	SLIDER		
113	3A		D13-0975-04	GEAR (INTERMEDIATE)		
114	3A		D13-0976-03	GEAR (CENTER)		
115	3A		D13-0977-03	GEAR (CARRIER)		
116	3A		D13-0978-03	GEAR (IDLER)		
117	2A		D13-0979-03	GEAR		
118	2A		D13-0980-02	LACK (GEAR)		
119	2B		D13-0894-05	GEAR (MOTOR)		

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

2=DP-2050

⚠ indicates safety critical components

PARTS LIST

* 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.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
120	1B		D13-0895-05	GEAR (INTERMEDIATE)		
121	1B		D13-0896-05	GEAR (FEED)		
125	3B		D15-0328-04	MOTOR PULLEY		
126	3A		D15-0329-03	PULLEY		
127	3B	*	D16-0333-03	BELT		
130	1B		E35-0296-05	FLAT CABLE		
131	2B		E35-0420-05	LEAD WIRE		
135	2B		G01-3326-14	COMPRESSION SPRING		
140	1B,2B		J02-1058-15	INSULATOR		
141	1A		J11-0180-03	CLAMPER		
142	2A	*	J99-0514-01	TRAY		
145			S33-1022-05	LEVER SWITCH		
155	1A		T50-1058-04	YOKE		
156	1A		T99-0503-15	MAGNET		
DM	1D		A11-0733-05	SUB CHASSIS ASSY(DISK MOTOR)		
FM	2D		T42-0532-05	DC MOTOR (FEED MOTOR)		
LM	3D		T42-0609-05	DC MOTOR (LOADING MOTOR)		
PU	1D		T25-0022-05	OPTICAL PICKUP HEAD		
MECHANISM ASSY : FRANCE MADE (X92-1780-XX)						
201	3D	*	A10-2978-01	CHASSIS (MAIN)		
202	2D	*	A11-0758-03	SUB CHASSIS (FRAME)		
203	1C	*	A11-0760-02	SUB CHASSIS (CLAMPER)		
211	1D		D10-2490-04	ROD		
212	2D		D10-3253-03	SLIDER		
213	3C		D13-0975-04	GEAR (INTERMEDIATE)		
214	3C		D13-0976-03	GEAR (CENTER)		
215	3C		D13-0977-03	GEAR (CARRIER)		
216	3C		D13-0978-03	GEAR (IDLER)		
217	2C		D13-0979-03	GEAR		
218	2C		D13-0980-02	LACK (GEAR)		
219	2D		D13-0894-05	GEAR (MOTOR)		
220	1D		D13-0895-05	GEAR (INTERMEDIATE)		
221	1D		D13-0896-05	GEAR (FEED)		
225	3D		D15-0328-04	MOTOR PULLEY		
226	3C		D15-0329-03	PULLEY		
227	3D		D16-0333-03	BELT		
230	1D		E35-0296-05	FLAT CABLE		
231	2D		E35-0420-05	LEAD WIRE		
235	2D	*	G01-3465-04	COMPRESSION SPRING		
240	1D,2D		J02-1058-15	INSULATOR		
241	1C		J11-0180-03	CLAMPER		
242	2C	*	J99-0515-01	TRAY		
245			S33-1022-05	LEVER SWITCH		
255	1C		T50-1058-04	YOKE		
256	1C		T99-0503-15	MAGNET		
DM	1D		A11-0733-05	SUB CHASSIS ASSY (DISK MOTOR)		
FM	2D		T42-0532-05	DC MOTOR (FEED)		
LM	3D		T42-0609-05	DC MOTOR (LOADING)		
PU	1D	*	T25-0024-05	OPTICAL PICKUP HEAD		

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DP-1050/2050

SPECIFICATIONS

Format

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

Audio

Frequency response ..... 4Hz~20kHz±1.0dB
Signal to noise ratio ..... More then 94dB
Total harmonic distortion ..... Less than 0.005% (at 1kHz)
Channel separation ..... More than 90dB (at 1kHz)
Wow & flutter ..... Unmeasurable limit
Output level/impedance
LINE (FIXED) 1.2V/2.6kΩ
(VARIABLE) ..... 0.24~1.2V/3.3kΩ
(Except for the DP-2050 U.S.A. model and the DP-1050)
Headphones ..... 20mW/16Ω (max.)

General

Power consumption 12W
Dimensions ..... W : 440mm (17-5/16"), H : 107mm (4-3/16"), D : 261mm (10-1/4")
Weight (net) 3.3kg (7.3lb)

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

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