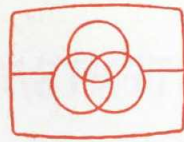


COMPACT DISC PLAYER

DP-B5/B9

SERVICE MANUAL



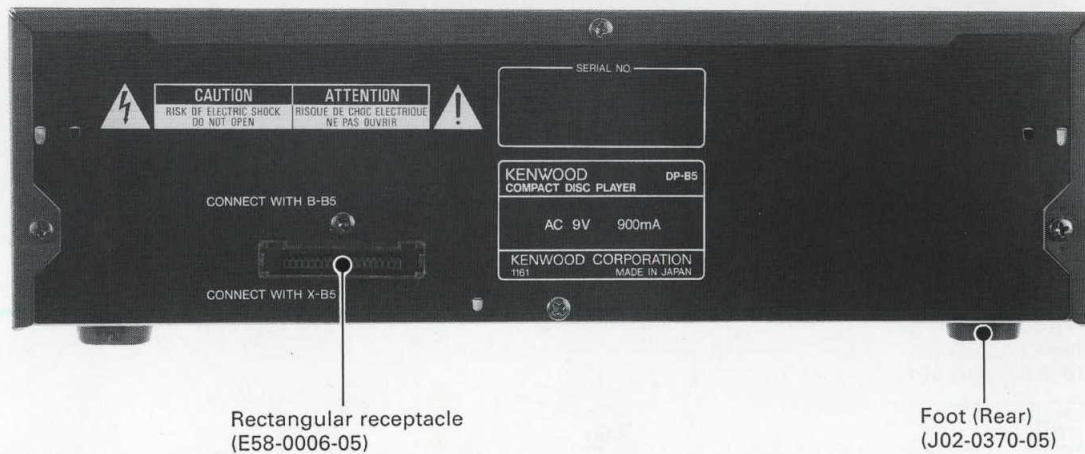
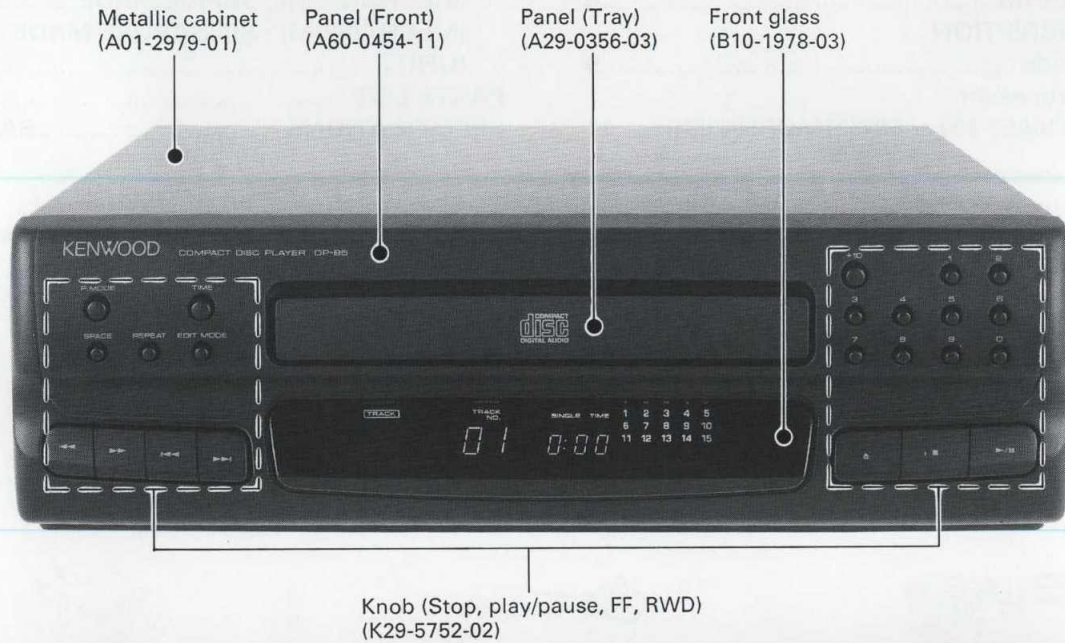
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B51-4732-00(O)2475



Refer to DP-A5/A9 service manual (B51-4586-00), if need description in detail.

Photo is DP-B5.

CAUTION : When doing repair of DP-B5, B9 be sure to have the customer bring the B-B5, B-B9, or supply to 9V AC to terminal Nos 14 and 15 of J3 on the X25-5370 PC board ass'y. If not get 9V AC, please order the A-848's power transformer (parts No. L07-0038-05/120V/220V/240V). Refer to the DP-911 service manual. Don't use the "RHEO-STAT".

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.

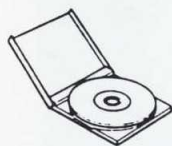
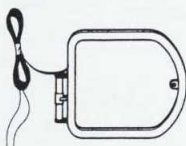

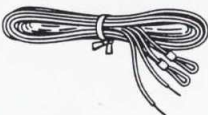

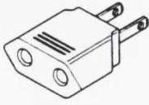
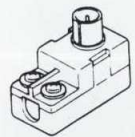


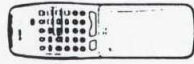

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.

CONTENTS/ACCESSORIES

CONTENTS

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: μPD75216AGF-695 or SC75216AGF-696 (IC1)	11	SPECIFICATIONS	BACK COVER

ACCESSORIES

<ul style="list-style-type: none"> • Sound enhancement CD 1 (W01-0830-05) 	<ul style="list-style-type: none"> • AM loop antenna 1 (T90-0173-05) 	<ul style="list-style-type: none"> • Loop antenna stand 1 (J19-2815-04) 
<ul style="list-style-type: none"> • FM indoor antenna 1 (T90-0176-05) 	<ul style="list-style-type: none"> • Parallel cord 2 (E30-2738-05) 	<ul style="list-style-type: none"> • AC plug adaptor 1 (E03-0115-05) 
<ul style="list-style-type: none"> • Antenna adaptor (75Ω/300Ω) 1 (T90-0185-05)  <p>(For U.K. and Europe)</p>	<p>(For the unit with a European AC plug in areas other than Europe.)</p> <ul style="list-style-type: none"> • Speaker cords* 2 Red/Blk (UD-501) 2 Red/Blk (UD-701, UD-901) 1 Blu/Blk (UD-701, UD-901) 1  <p>* Refer to speaker's service manual</p>	<p>(Except for some areas)</p> <ul style="list-style-type: none"> • Audio cord 1 (E30-0615-05) 
<ul style="list-style-type: none"> • Remote control unit 1 RC-MB5 (X94-1050-51) : UD-501 RC-B7 (X94-1050-31) : UD-701 RC-B9 (X94-1050-00) : UD-901 	<ul style="list-style-type: none"> • Batteries (R03/AAA) 2 (-) 	

Battery cover (F07-0721-23)

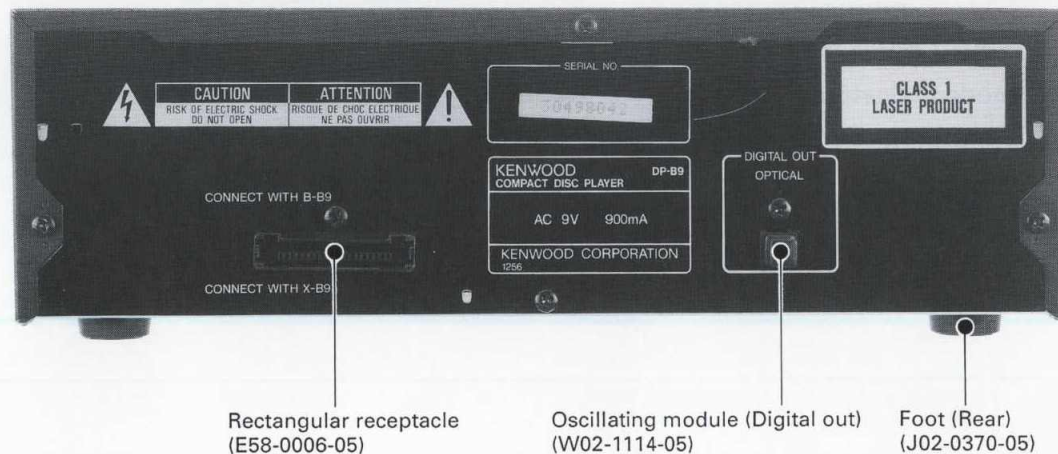
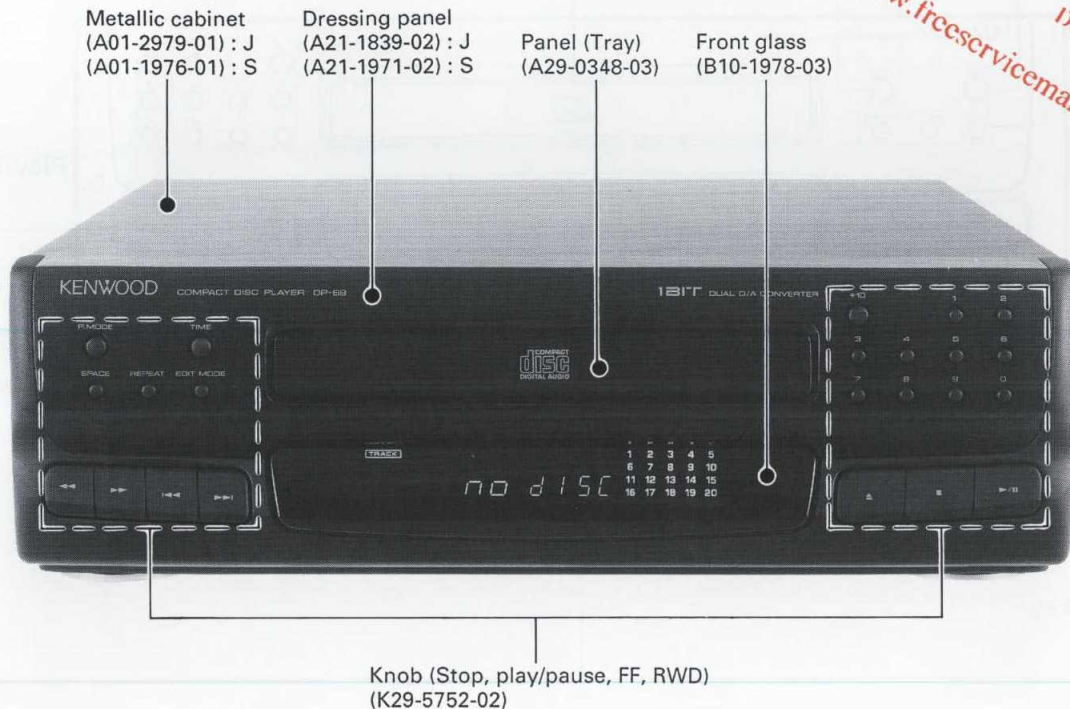
Speaker cords are packed with the speakers. All other accessories are packed with the Pre-amp/Tuner unit.

System name	Pre-amp/Tuner	power amp	CD player	Cassette deck	Speaker
UD-501	C-B5/B5L	B-B5	DP-B5	X-B5	LS-B5
UD-701	C-B7/B7L	B-B7	DP-B5	X-B7	LS-B7
UD-901	C-B9/B9L	B-B9	DP-B9	X-B9	LS-B9

EXTERNAL VIEW (DP-B9)



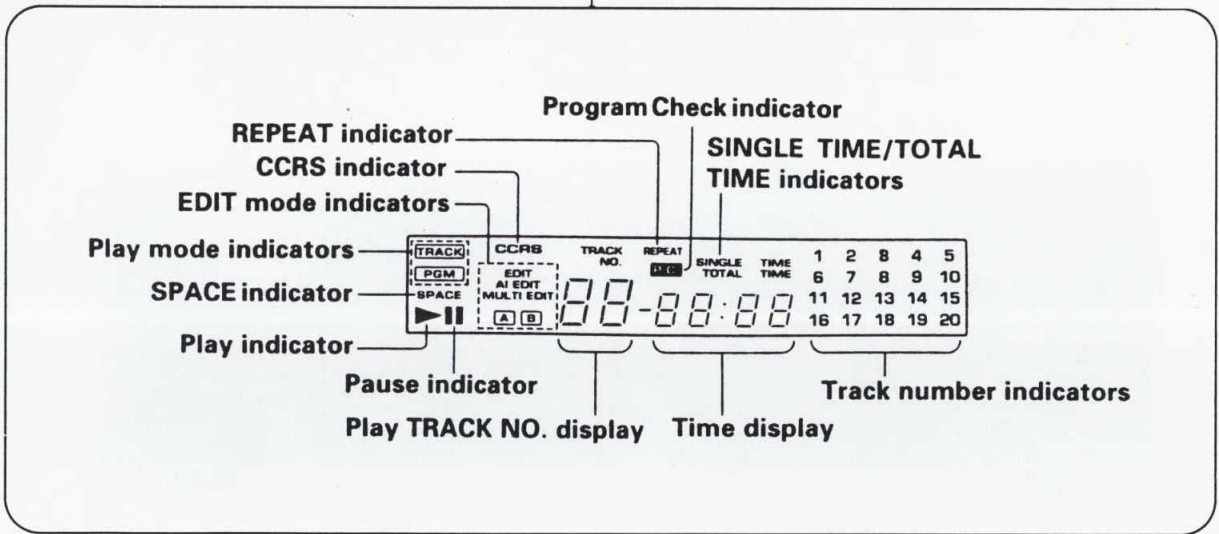
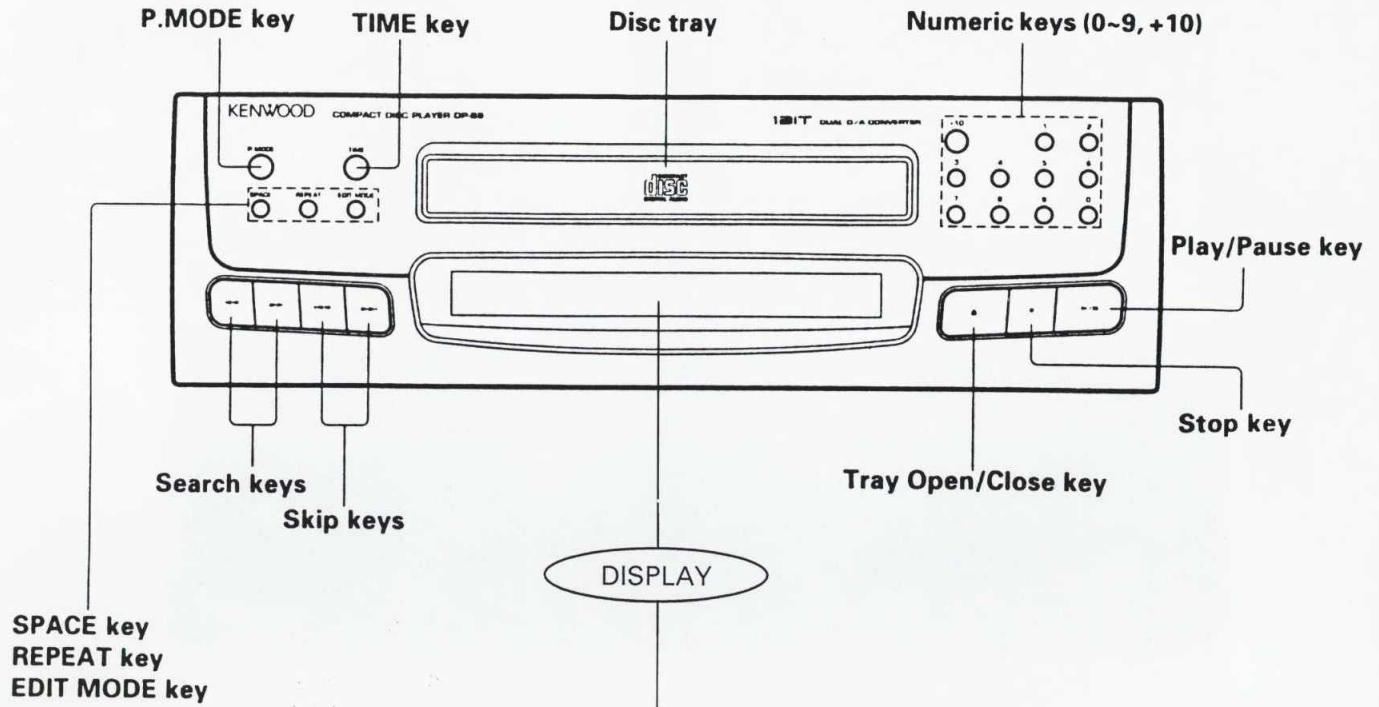
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J : Japan made
 S : Singapore made

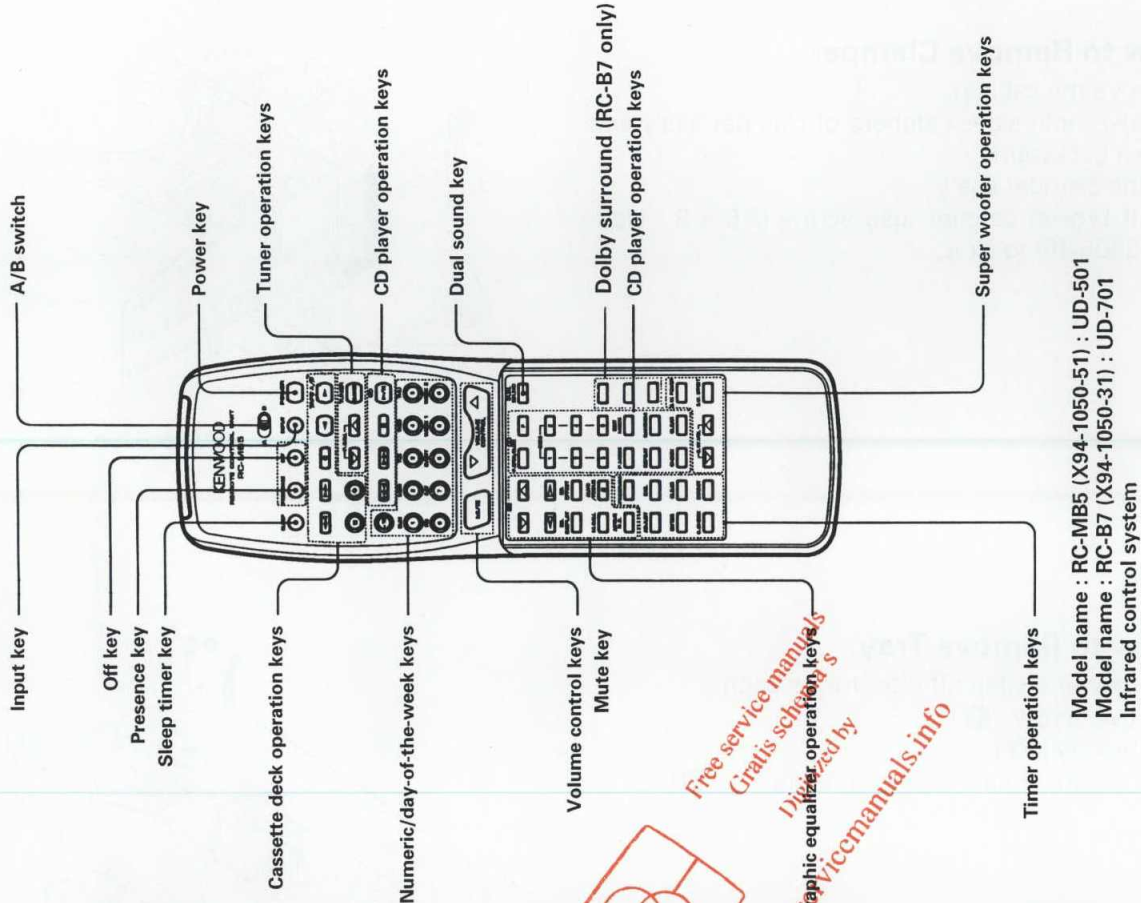
Photo is DP-B9.

CONTROL

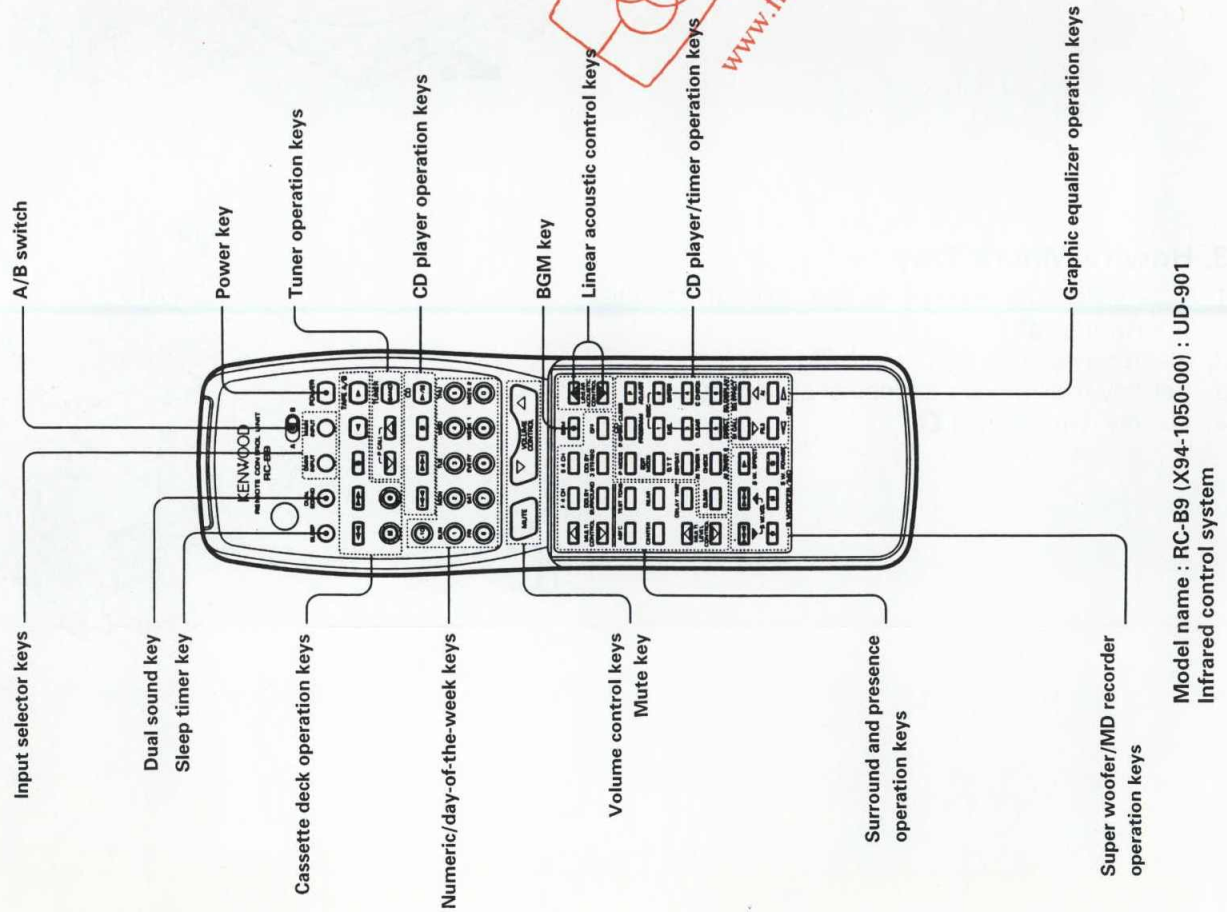


REMOTE CONTROL OPERATION

■ DP-B5 (UD-501, 701)



■ DP-B9 (UD-901)



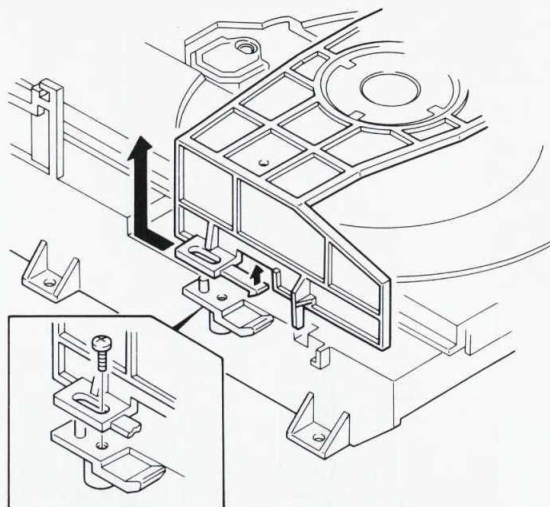
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DISASSEMBLY FOR REPAIR

1. How to Remove Clamper

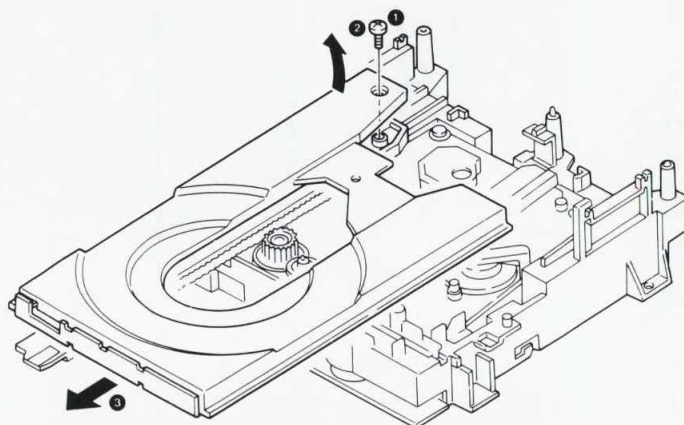
1. Remove the cabinet.
2. Remove both-sides-catchers of clamper ass'y and slide it backwards.
3. Lift the clamper ass'y.

Note : If broken catcher, use screw (2.6 x 8 : N89-2608-46) to fix it.



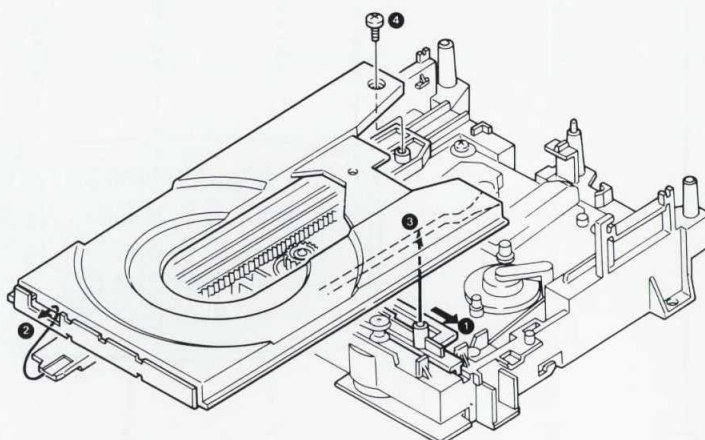
2. How to Remove Tray

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



3. How to Mount Tray

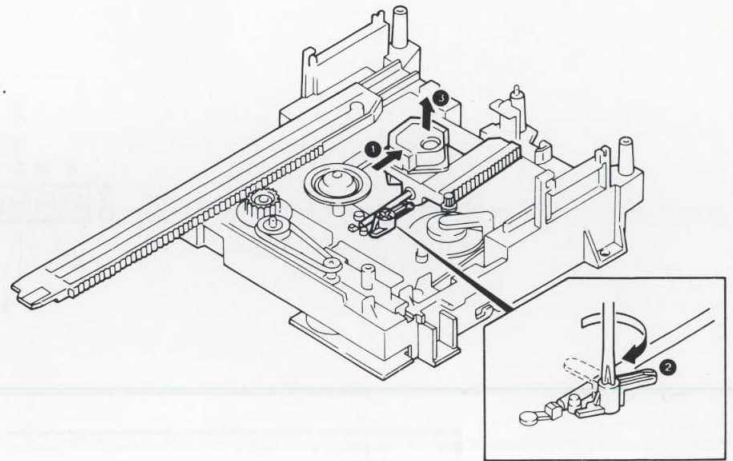
1. Slide slider fully rightwards and pull out tray gear frontwards (❶).
2. Insert tray gear in slit of tray (❷).
3. Set tray-back-groove to boss of slider (❸).
4. Fix tray with screw (❹).



DISASSEMBLY FOR REPAIR

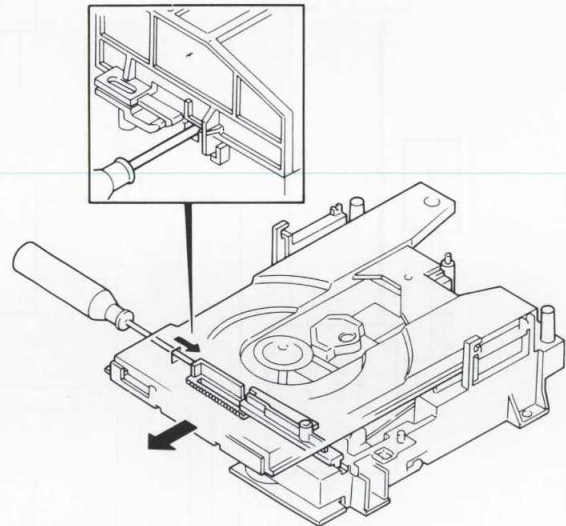
4. How to Replace Pickup

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

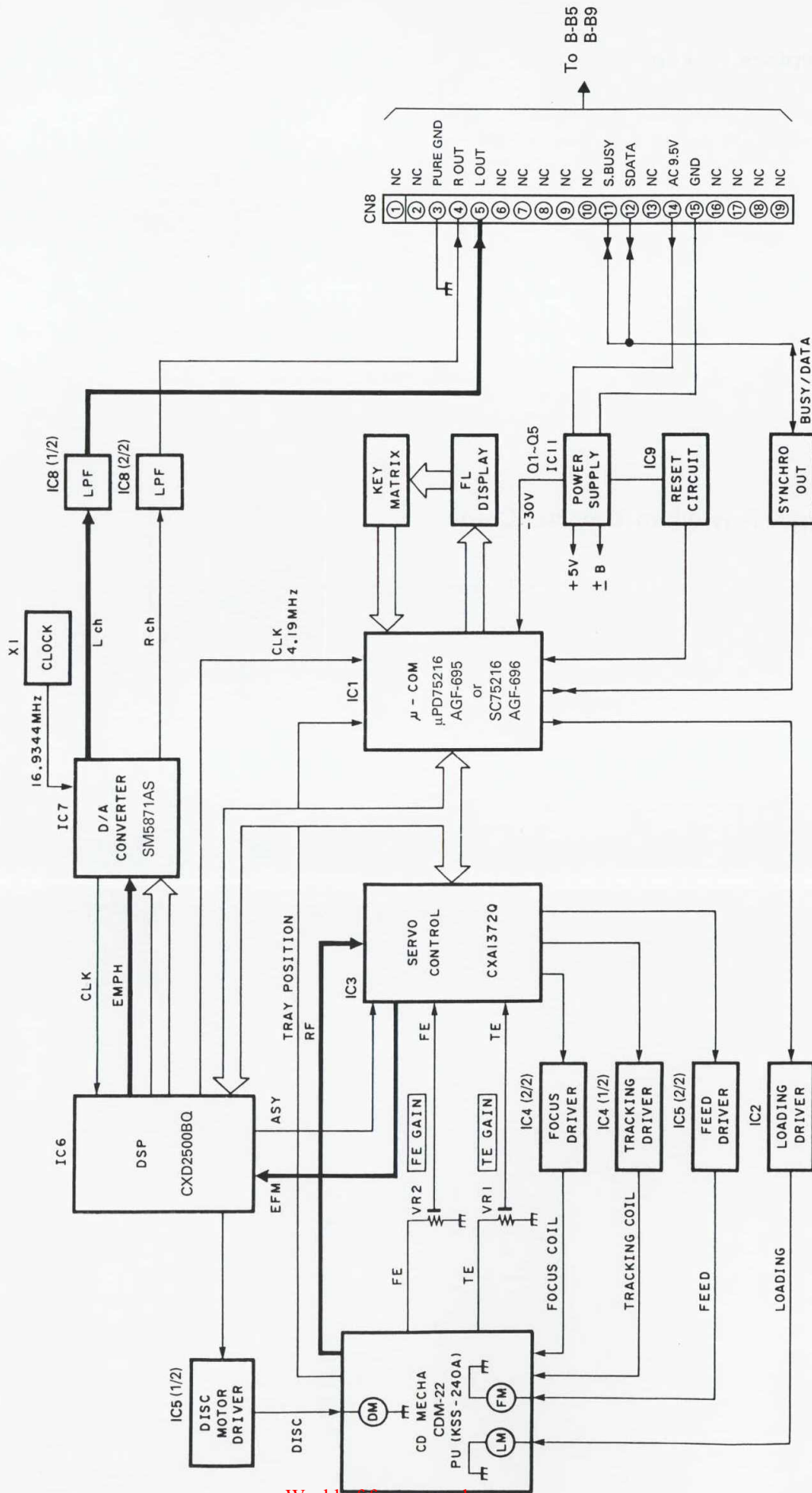


5. How to Open Tray when Tray Not Come Out

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



BLOCK DIAGRAM

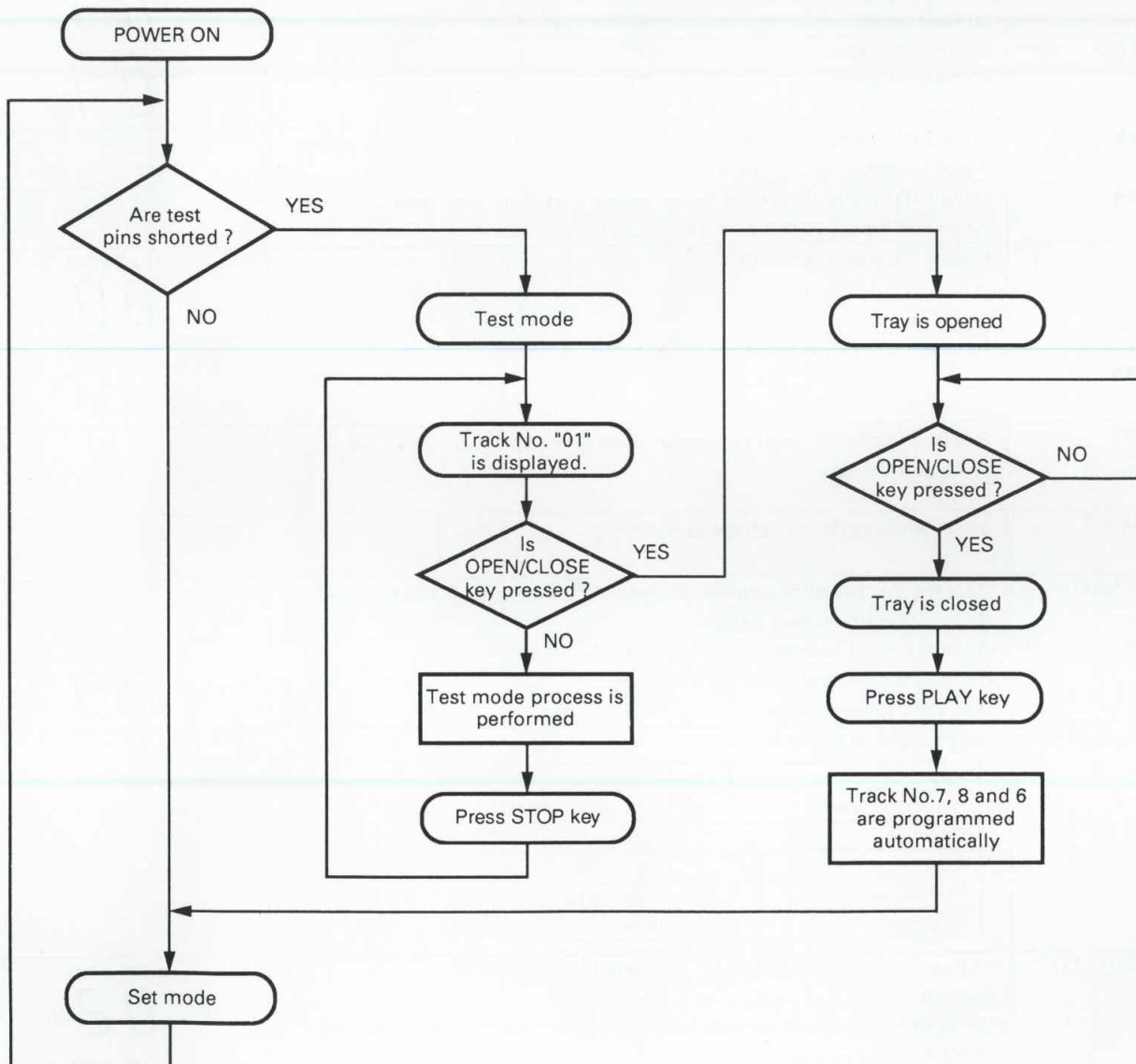


CIRCUIT DESCRIPTION

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. The TEST MODE can be also initiated with short-circuiting the test pins when tray is OPEN. If unit is in test mode, TRACK No. displays "05".



CIRCUIT DESCRIPTION

1-2. Key and functions valid in test mode

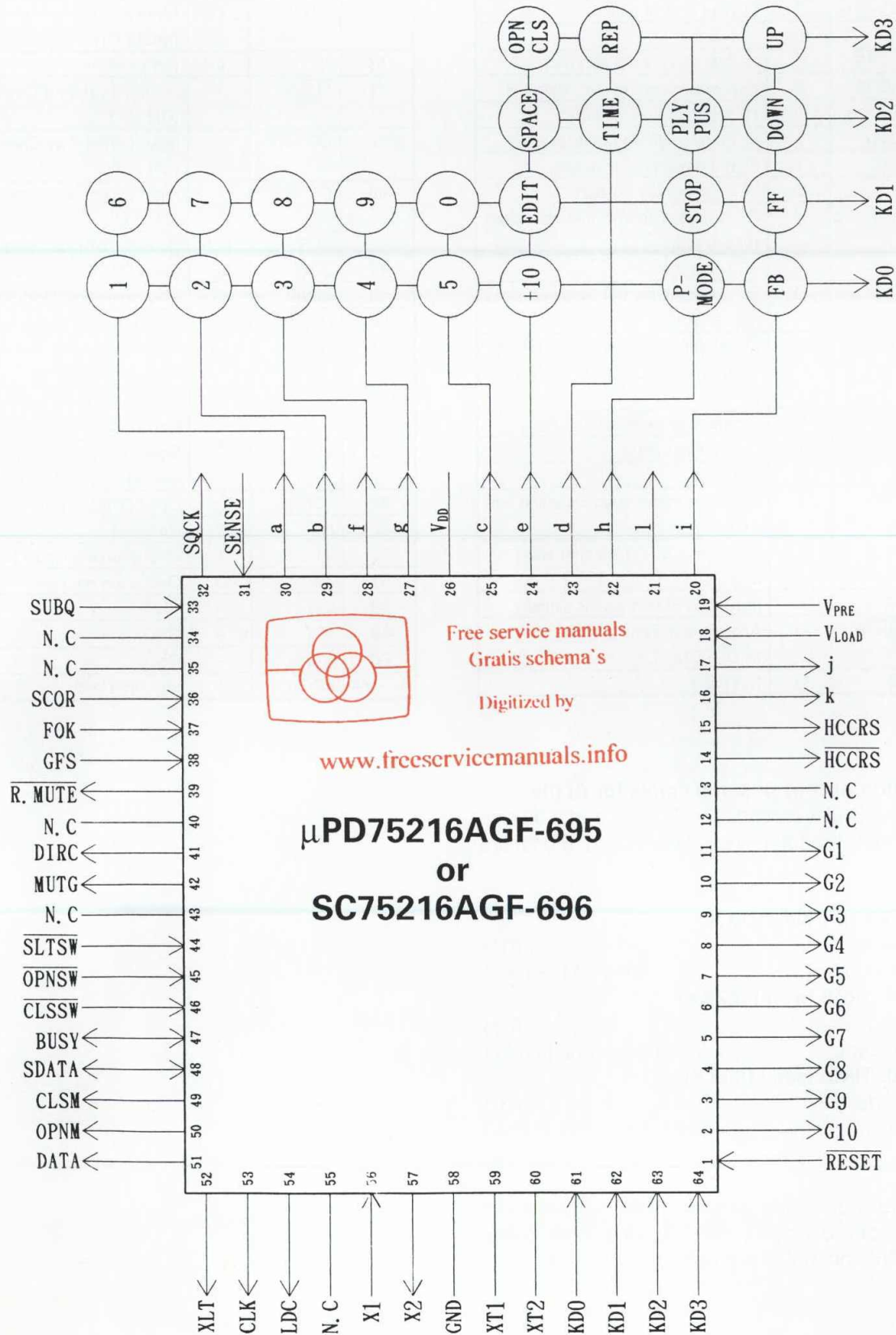
No.	Input key	Function	Track No. display																																		
1	PLAY	(1) Focusing servo ON (2) Tracking servo ON (3) Feed vervo ON	TRACK NO. 05 ↓ Displayed for a few seconds after completion (1), (2) and (3). ↓ Disc Track No. is displayed.																																		
2	"0"	(1) Focusing servo ON (2) Tracking servo OFF (3) Feed servo OFF	TRACK NO. 03																																		
3	STOP	(1) Focusing servo OFF (2) Tracking servo OFF (3) Feed servo OFF	TRACK NO. 01																																		
4	▶▶	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".	-																																		
5	◀◀	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".	-																																		
6	UP ▶▶	Turns all FL display lamps ON.	TRACK NO. 88																																		
7	DOWN ◀◀	Turns all FL display lamps OFF. "TRACK NO." is lighted.	TRACK NO. 88																																		
8	+10	Playback Track No.1 under High-speed mode (If not open tray, SPACE key function is available).	-																																		
9	SPACE	Set playback mode to High-speed or Normal.	-																																		
10	P. MODE	Track No. 7,8, and 6 (High-speed) are programmed and playback from Track No.7. The test mode is canceled.	-																																		
11	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. 00																																		
12	Numeric key (1 ~ 9)	Jumps tracks as shown below. <table border="1" style="margin-left: 20px;"> <tr> <td>Key</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td>Number of tracks</td> <td>1</td> <td>4</td> <td>128</td> <td>512</td> <td>1000</td> </tr> <tr> <td>Direction</td> <td colspan="5" style="text-align: center;">Outer</td> </tr> <tr> <td>Key</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td rowspan="3" style="text-align: center;">/</td> </tr> <tr> <td>Number of tracks</td> <td>1</td> <td>4</td> <td>128</td> <td>512</td> </tr> <tr> <td>Direction</td> <td colspan="4" style="text-align: center;">Inner</td> </tr> </table>	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				-
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																																				
13	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																																		

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

CIRCUIT DESCRIPTION

2. Microprocessor : μ PD75216AGF-695 or SC75216AGF-696 (IC1)

2-1. Terminal connection diagram



CIRCUIT DESCRIPTION

2-2. Pin function

Port	Name	I/O	Description
1	RESET	I	Reset input port (Active L)
2 ~ 11	10G ~ 1G	O	FL digit control port
12, 13	N.C	O	Not used
14	HCCRS	O	High-speed control port (Active L)
15	HCCRS	O	High-speed control port (Active H)
16, 17	k, j	O	FL segment control port
18	VLOAD	I	FL driver negative power supply
19	VPRE	I	FL pre-driver power supply
20	i	O	FL segment control port
21 ~ 25	l, h, d, e, c	O	FL segment control port/also used for key-scan
26	VDD	-	+5V power supply
27 ~ 30	g, f, b, a	O	FL segment control port/also used for key-scan
31	SENSE	I	Signal detection port for SENSE signal from signal processor and servo IC
32	SQCK	O	Q-data read clock output port
33	SUBQ	I	Q-data input port
34, 35	N.C	O	Not used
36	SCOR	I	Sub-code frame sync detection signal input port
37	FOK	I	Input port of FOK signal from RF amp
38	GFS	I	Input port of frame sync signal
39	RMUTE	O	Analog mute control port (MUTE ON : "L")
40	N.C	O	Not used

Port	Name	I/O	Description
41	DIRC	O	DIRC control port of servo IC
42	MUTG	O	Mute port of signal processor (MUTE ON : "H")
43	N.C	O	Not used
44	SLTSW	I	Input port of Start Limit Switch (ON : "L")
45	OPNSW	I	Input port of Tray Open Switch (ON : "L")
46	CLSSW	I	Input port of Tray Close Switch (ON : "L")
47	BUSY	I/O	Serial BUSY in/out port
48	SDATA	I/O	Serial DATA in/out port
49	CLSM	O	Tray close signal for motor port
50	OPNM	O	Tray open signal for motor port
51	DATA	O	Signal processor and servo IC control out port (DATA)
52	XLT	O	Signal processor and servo IC control out port (LATCH)
53	CLK	O	Signal processor and servo IC control out port (CLOCK)
54	LDC	O	Laser ON/OFF signal out port
55	N.C	O	Not used
56	X1	I	Oscillation input port (4.19MHz)
57	X2	O	Oscillation out port
58	Vss	-	GND
59	XT1	-	GND
60	XT2	-	Open
61 ~ 64	KD0 ~ 3	I	Key input port

2-3. TOC data output of serial codes for AI file

When the CD player reads the TOC data of a disc (in the play mode), the following serial codes (16 bits) are output.

- **CD MAX TRACK No. [61XX]**
 Model code 61H
 Function code XXH (Max TNo.)
- **CD TOTAL TIME (min.) [62XX]**
 Model code 62H
 Function code XXH (Total time in min.)
- **CD TOTAL TIME (sec.) [63XX]**
 Model code 63H
 Function code XXH (Total time in sec.)

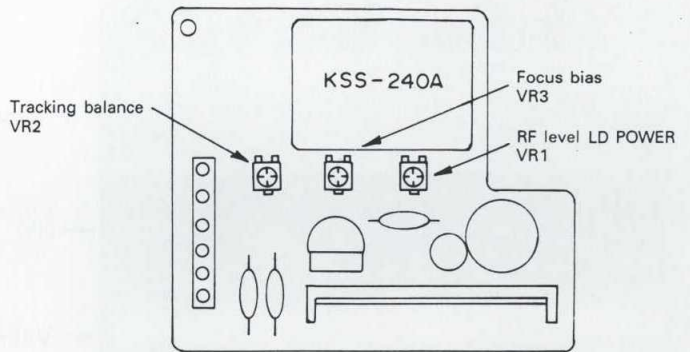
Example

When a disc containing 20 tunes of 65 minutes and 2 seconds in total is played, the following three codes [6120], [6265] and [6302] are output continuously.

ADJUSTMENT

CAUTION

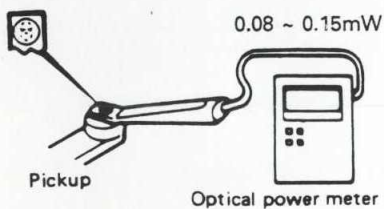
Pickup (KSS-240A) is adjustment free in repairing, please don't disassemble and adjust it.



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 aligned 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 CN5 pin 2 and 3.	Connect a LPF to CN5 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 CN5 pin 5 and 6.	Connect a LPF to CN5 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)

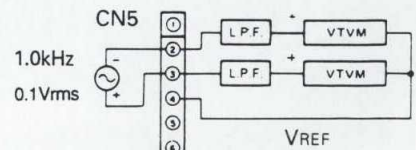
(NOTE) Type 4 disc : SONY YEDS-18 TEST DISC or equivalent.
LPF: around 47kohms+390pF or so.

(a) Laser Power

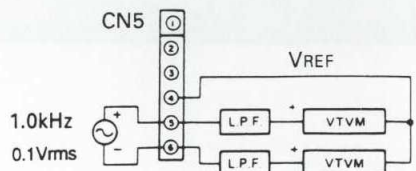


(b) Focus Gain, (c) Tracking Gain

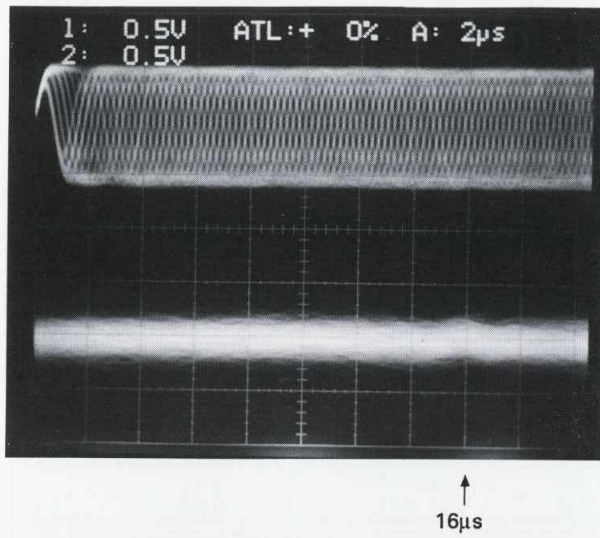
Focus gain :



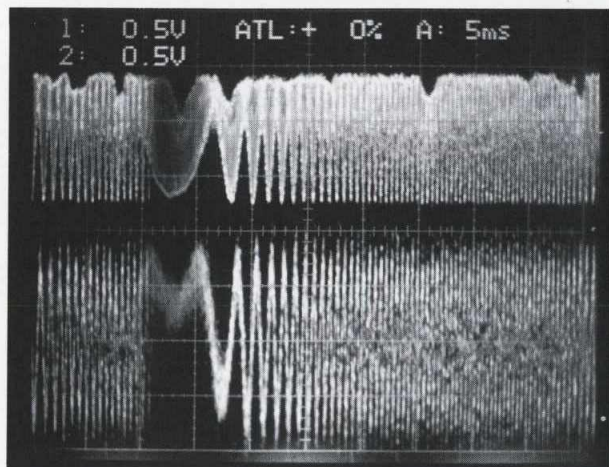
Tracking gain :



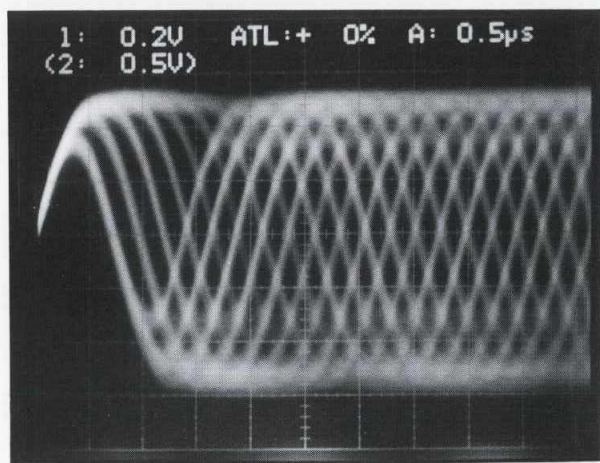
ADJUSTMENT



- 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.

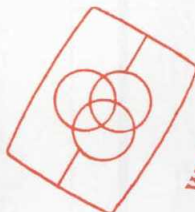
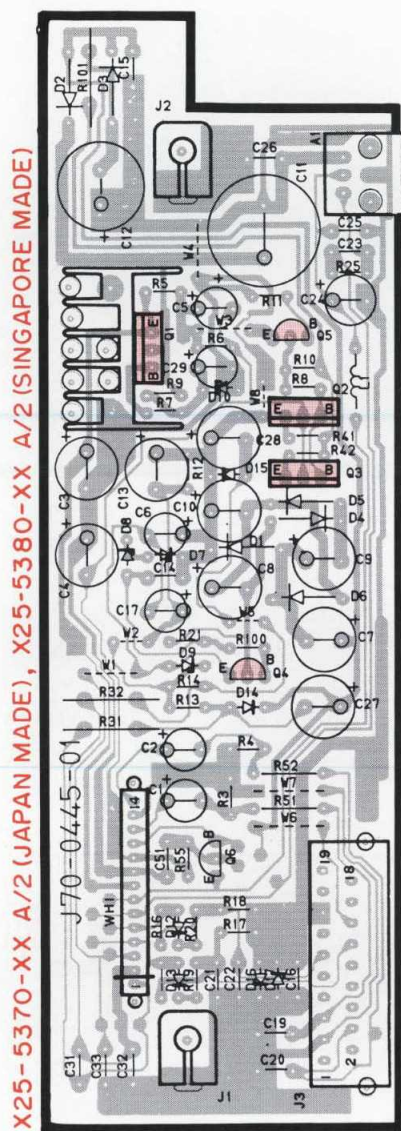


- RF signal and T.Error signal; in test mode (Focusing ON). (Disc type 4)

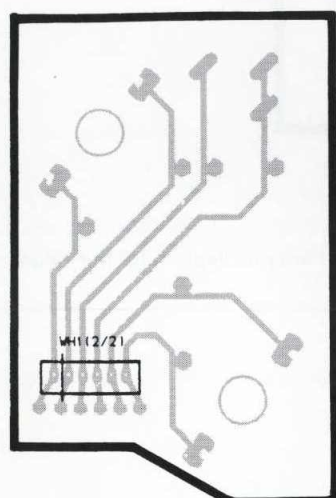
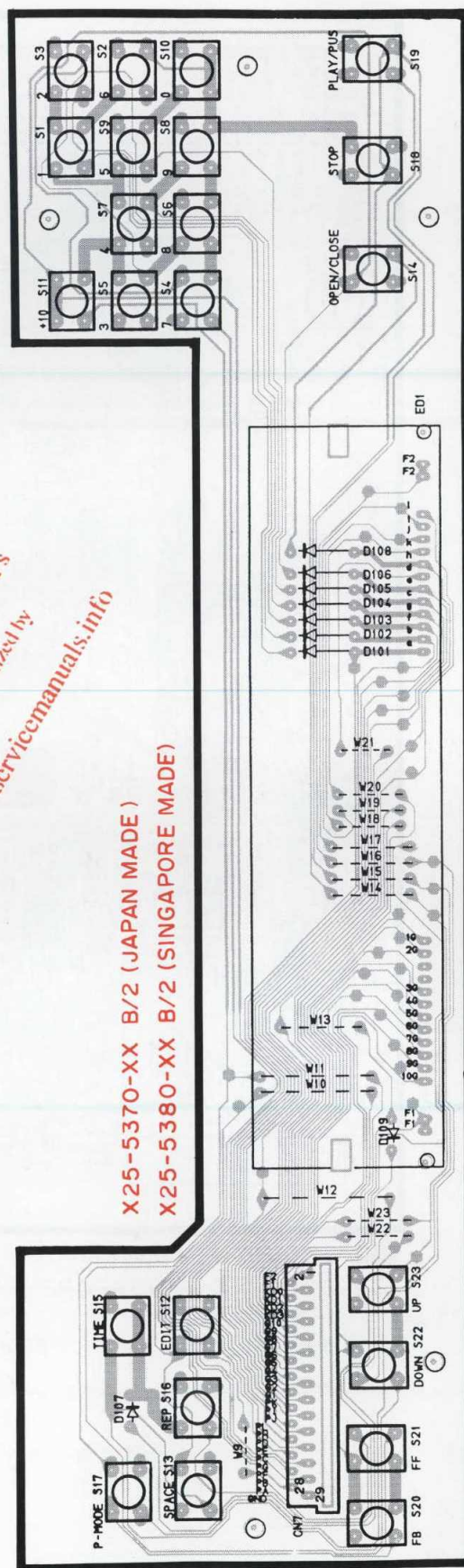


- RF signal in test mode (PLAY).

PC BOARD (COMPONENT SIDE VIEW)

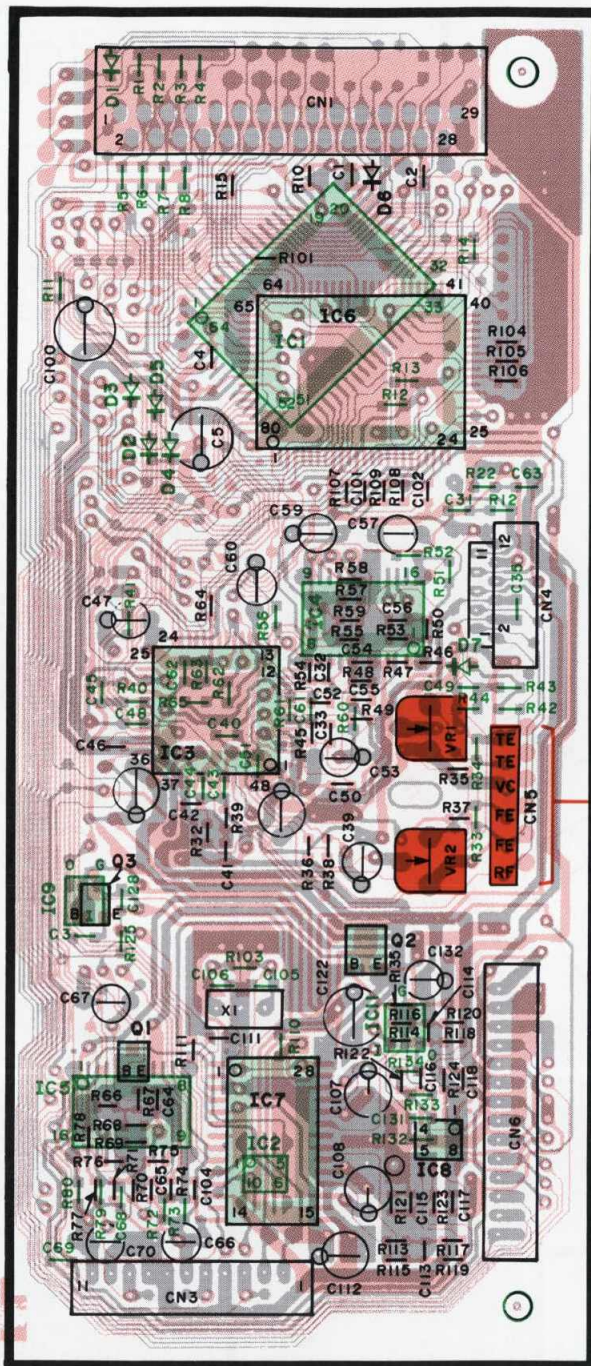


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Refer to the schematic diagram for the values of resistors and capacitors.

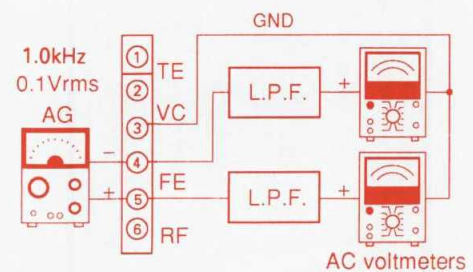
PC BOARD (COMPONENT SIDE VIEW)



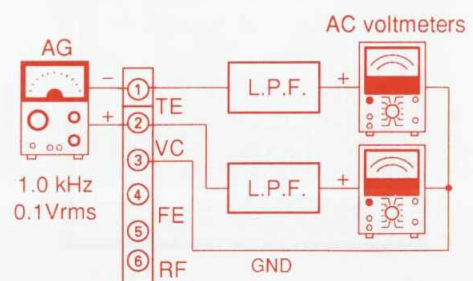
X32-2560-XX (JAPAN MADE)
X32-2570-XX (SINGAPORE MADE)

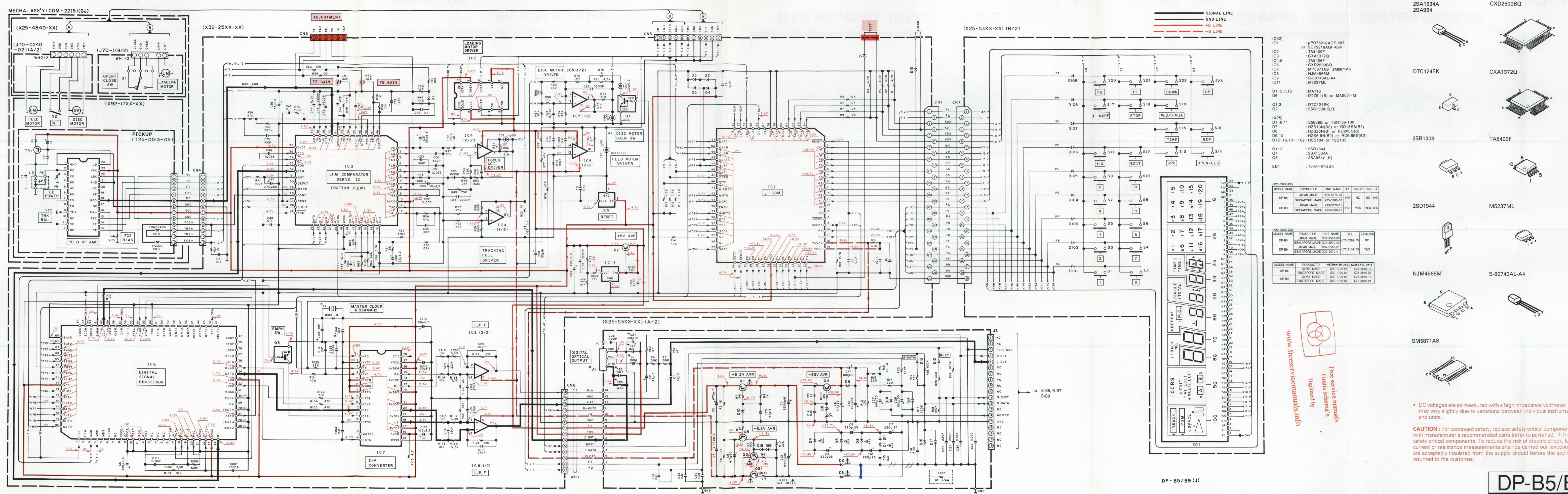
Refer to the schematic diagram for the values of resistors and capacitors.

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



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





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- (X32)
 IC1 : μPD75216AGF-695
 or SC75216AGF-696
 IC2 : TA8409F
 IC3 : CX1372Q
 IC4,5 : TA8409F
 IC6 : CX2500BQ
 IC7 : MP5871AS SM5871AS
 IC8 : NJM4565M
 IC9 : S-80740AL-A4
 IC11 : M5237ML
- D1-5,7,15
 D6 : MA110
 D6 : DT25(B) or MA8051-M
- Q1,3
 Q2 : DTC124EK
 : 2S81308(Q,R)
- (X25)
 D1-6,11 : S5688B or 1SR139-100
 D7 : H2S13N(B2) or RD19ES(B2)
 D8 : H2S20N(B) or RD26S(B)
 D9,10 : H2S68N(B2) or RD68ES(B2)
 D12-19,101-109 : HSS104 or 1S133
- Q1-3 : 2SD1944
 Q4 : 2SA1534A
 Q5 : 2SA954(L,K)
 ED1 : 10-BT-67GSK

(X25-53XX-XX)

MODEL NAME	PRODUCT P.	UNIT NAME	A1	C23-25	R25	L1
DP-B5	JAPAN MADE	X25-5370-00	NO	NO	NO	NO
DP-B9	SINGAPORE MADE	X25-5380-00	NO	NO	NO	NO
DP-B9	JAPAN MADE	X25-5370-01	YES	YES	YES	YES
DP-B9	SINGAPORE MADE	X25-5380-01	YES	YES	YES	YES

(X32-25XX-XX)

MODEL NAME	PRODUCT P.	UNIT NAME	X1	C105-106
DP-B5	JAPAN MADE	X32-2560-00	NO	NO
DP-B5	SINGAPORE MADE	X32-2570-00	NO	NO
DP-B9	JAPAN MADE	X32-2560-01	L77-2109-05	YES
DP-B9	SINGAPORE MADE	X32-2570-01	L77-2109-05	YES

MODEL NAME	PRODUCT P.	MECHANISM ASSY	ELECTRIC UNIT
DP-B5	JAPAN MADE	X92-1709-51	X25-4840-10
DP-B5	SINGAPORE MADE	X92-1750-51	X25-4840-21
DP-B9	JAPAN MADE	X92-1709-61	X25-4840-10
DP-B9	SINGAPORE MADE	X92-1750-61	X25-4840-21

- 2SA1534A
2SA954
- CXD2500BQ
- DTC124EK
- CXA1372Q
- 2S81308
- TA8409F
- 2SD1944
- M5237ML
- NJM4565M
- S-80740AL-A4
- SM5871AS

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

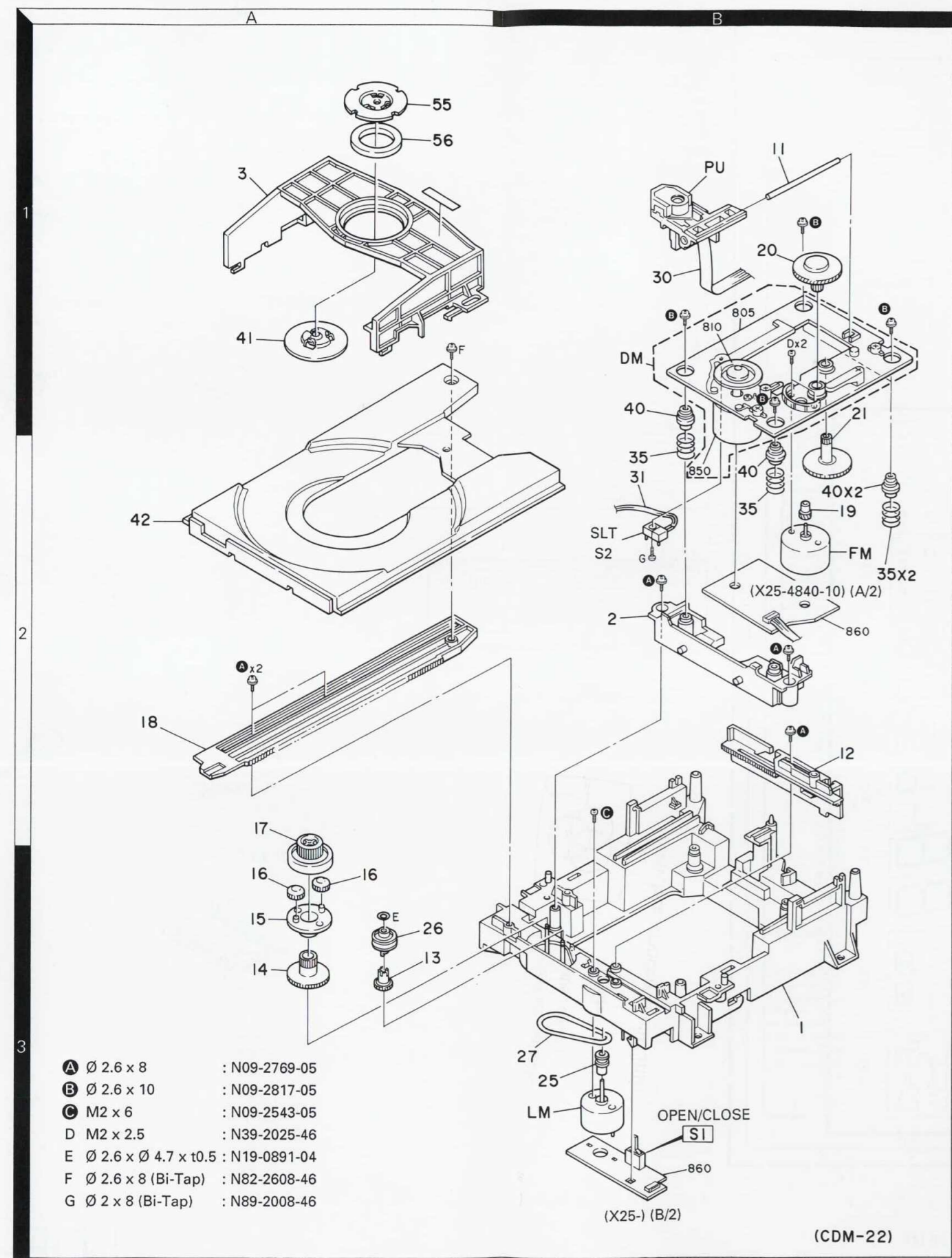
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably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

EXPLODED VIEW (MECHANISM) : JAPAN MADE

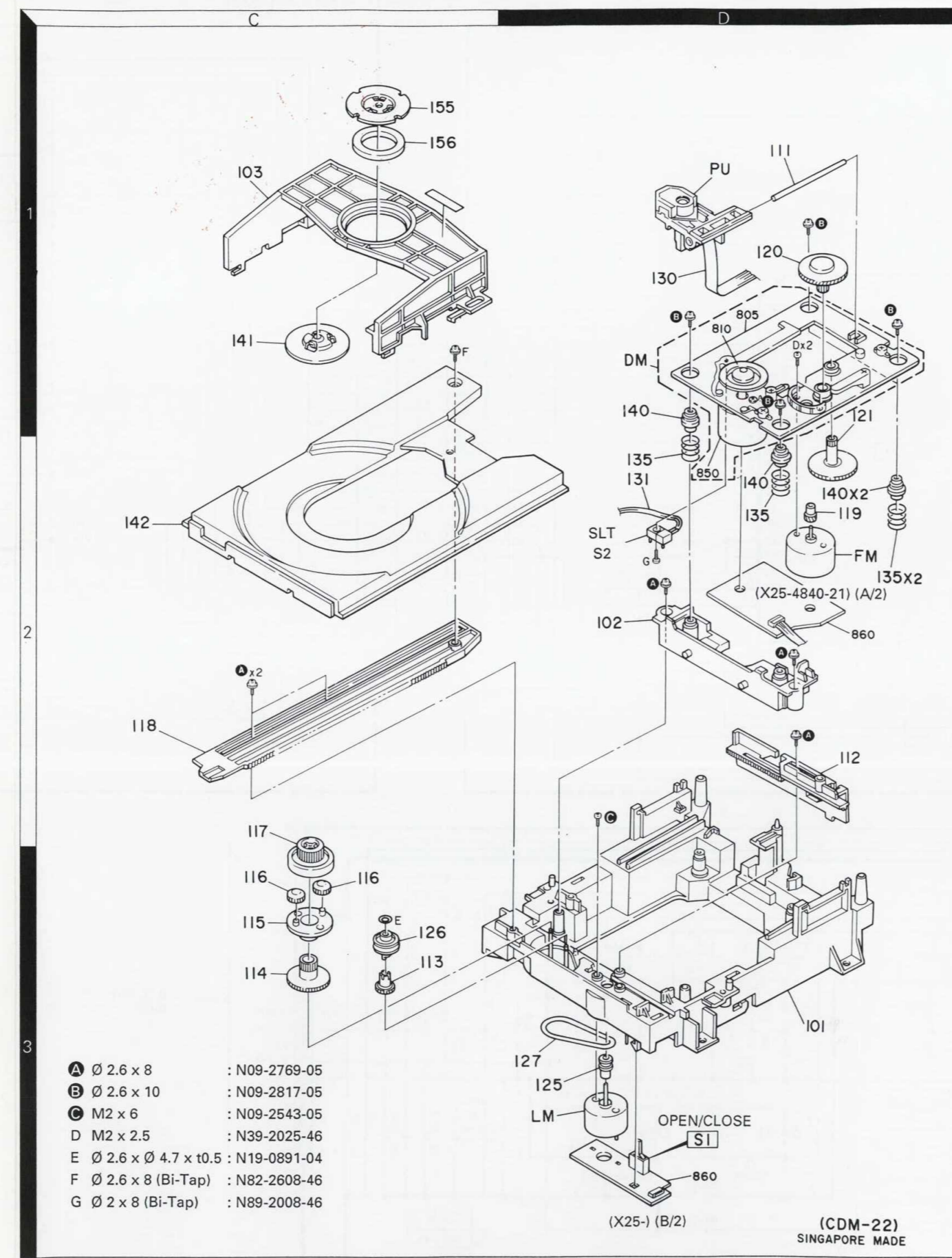
EXPLODED VIEW (MECHANISM) : SINGAPORE MADE

EXPLODED VIEW (UNIT)

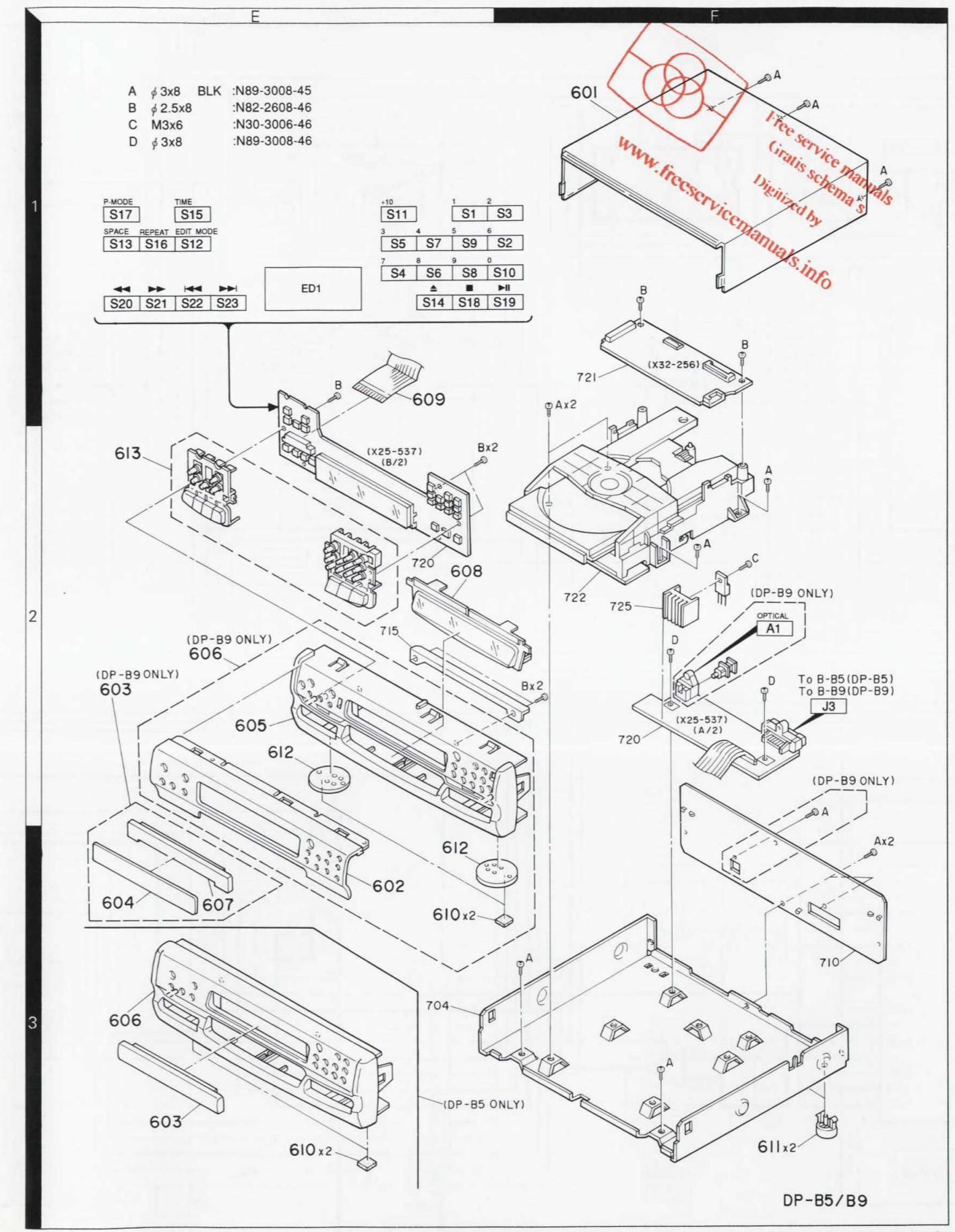
PARTS LIST



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



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



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

Ref. No.	Address	Part No.	Description	Destination
601	1F	A01-2979-01	METALLIC CABINET	S S
602	3E	A29-0356-03	PANEL (FRONT)	S S
603	3E	A60-0454-11	FRONT GLASS	S S
604	3E	B10-1978-03	FRONT GLASS	S S
605	2E	B46-0122-23	WARRANTY CARD	S S
606	1E	E35-0708-05	FLAT CABLE (29P)	S S
607	1E	G11-2052-14	CUSHION	S S
608	3E	H10-5597-02	POLYSTYRENE FOAMED FIXTURE (L)	S S
609	3E	H10-5598-02	POLYSTYRENE FOAMED FIXTURE (R)	S S
610	3E	H20-0576-04	PROTECTION COVER	S S
611	3F	H50-0795-04	ITEM CARTON CASE	S S
612	2E	J02-0370-05	FOOT (REAR)	S S
613	2E	K29-5752-02	KNOB (STOP, PLAY/PAUSE, FF, RWD)	S S
A	3E	N89-3008-45	BINDING HEAD TAPITTE SCREW	S S
B	3E	N82-2608-46	BINDING HEAD TAPITTE SCREW	S S
C	3E	N30-3006-46	PAN HEAD MACHINE SCREW	S S
D	3E	N89-3008-46	BINDING HEAD TAPITTE SCREW	S S
DP-B5 : SINGAPORE MADE				
601	1F	A01-2979-01	METALLIC CABINET	S S
602	3E	A29-0356-03	PANEL (FRONT)	S S
603	3E	A60-0454-11	FRONT GLASS	S S
604	3E	B10-1978-03	FRONT GLASS	S S
605	2E	B46-0122-23	WARRANTY CARD	S S
606	1E	E35-0708-05	FLAT CABLE (29P)	S S
607	1E	G11-2052-14	CUSHION	S S
608	3E	H10-5597-02	POLYSTYRENE FOAMED FIXTURE (L)	S S
609	3E	H10-5598-02	POLYSTYRENE FOAMED FIXTURE (R)	S S
610	3E	H20-0576-04	PROTECTION COVER	S S
611	3F	H50-0795-04	ITEM CARTON CASE	S S
612	2E	J02-0370-05	FOOT (REAR)	S S
613	2E	K29-5752-02	KNOB (STOP, PLAY/PAUSE, FF, RWD)	S S
A	3E	N89-3008-45	BINDING HEAD TAPITTE SCREW	S S
B	3E	N82-2608-46	BINDING HEAD TAPITTE SCREW	S S
C	3E	N30-3006-46	PAN HEAD MACHINE SCREW	S S
D	3E	N89-3008-46	BINDING HEAD TAPITTE SCREW	S S
DP-B9 : JAPAN MADE				
601	1F	A01-2979-01	METALLIC CABINET	S S
602	3E	A29-0356-03	PANEL (FRONT)	S S
603	3E	A60-0454-11	FRONT GLASS	S S
604	3E	B10-1978-03	FRONT GLASS	S S
605	2E	B46-0122-23	WARRANTY CARD	S S
606	1E	E35-0708-05	FLAT CABLE (29P)	S S
607	1E	G11-2052-14	CUSHION	S S
608	3E	H10-5597-02	POLYSTYRENE FOAMED FIXTURE (L)	S S
609	3E	H10-5598-02	POLYSTYRENE FOAMED FIXTURE (R)	S S
610	3E	H20-0576-04	PROTECTION COVER	S S
611	3F	H50-0795-04	ITEM CARTON CASE	S S
612	2E	J02-0370-05	FOOT (REAR)	S S
613	2E	K29-5752-02	KNOB (STOP, PLAY/PAUSE, FF, RWD)	S S
A	3E	N89-3008-45	BINDING HEAD TAPITTE SCREW	S S
B	3E	N82-2608-46	BINDING HEAD TAPITTE SCREW	S S
C	3E	N30-3006-46	PAN HEAD MACHINE SCREW	S S
D	3E	N89-3008-46	BINDING HEAD TAPITTE SCREW	S S
DP-B9 : SINGAPORE MADE				
601	1F	A01-2979-01	METALLIC CABINET	S S
602	3E	A29-0356-03	PANEL (FRONT)	S S
603	3E	A60-0454-11	FRONT GLASS	S S
604	3E	B10-1978-03	FRONT GLASS	S S
605	2E	B46-0122-23	WARRANTY CARD	S S
606	1E	E35-0708-05	FLAT CABLE (29P)	S S
607	1E	G11-2052-14	CUSHION	S S
608	3E	H10-5597-02	POLYSTYRENE FOAMED FIXTURE (L)	S S
609	3E	H10-5598-02	POLYSTYRENE FOAMED FIXTURE (R)	S S
610	3E	H20-0576-04	PROTECTION COVER	S S
611	3F	H50-0795-04	ITEM CARTON CASE	S S
612	2E	J02-0370-05	FOOT (REAR)	S S
613	2E	K29-5752-02	KNOB (STOP, PLAY/PAUSE, FF, RWD)	S S
A	3E	N89-3008-45	BINDING HEAD TAPITTE SCREW	S S
B	3E	N82-2608-46	BINDING HEAD TAPITTE SCREW	S S
C	3E	N30-3006-46	PAN HEAD MACHINE SCREW	S S
D	3E	N89-3008-46	BINDING HEAD TAPITTE SCREW	S S

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

S: SINGAPORE MADE

www.nostatarech.com

PARTS LIST

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

4

Table with 6 columns: Ref. No., Address, New Parts, Parts No., Description, Re-marks. Contains parts like CHIP C, ELECTRO, and various diodes.

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

5:DP-B5
9:DP-B9
indicates safety critical components

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3

Table with 6 columns: Ref. No., Address, New Parts, Parts No., Description, Re-marks. Contains parts like ELECTRO, CERAMIC, and various diodes.

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

9:DP-B9
indicates safety critical components



PARTS LIST

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Parts without **Parts No.** are not supplied.
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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	Re-mark 備考
116	3C		D13-0978-03	(IDLER)		
117	2C		D13-0979-03	GEAR		
118	2C		D13-0880-02	GEAR (MAIN)		
119	2D		D13-0894-05	LACK (GEAR)		
120	1D		D13-0894-05	GEAR (MOTOR)		
121	1D		D13-0894-05	GEAR (INTERMEDIATE)		
122	1D		D13-0896-05	GEAR (FEED)		
123	3D		D15-0328-04	MOTOR PULLEY		
126	3C		D15-0329-03	PULLEY		S
127	3D		D16-0333-03	BELT		
130	1D		E35-0296-05	FLAT CABLE		
131	2D		E35-0420-05	LEAD WIRE		
135	2D		G01-3326-14	COMPRESSION SPRING		S
140	1D, 2D		J02-1058-15	INSULATOR		
141	1C		J11-0180-03	CLAMPER		
142	2C		J99-0514-01	TRAY		
A			N09-2769-05	MACHINE SCREW		
B			N09-2817-05	TAPTITE SCREW (2.6X10, 12P)		
C			N09-2543-05	SEMS (MACHINE SCREW)		
D			N39-2025-46	PAN HEAD MACHIN SCREW		
E			N19-0891-04	FLAT WASHER		
F			N82-2608-46	BINDIG HEAD TAPTITE SCREW		
G			N89-2008-46	BINDING HEAD TAPTITE SCREW		
S2	2D		S33-1022-05	LEVER SWITCH (SLT)		
155	1C		T50-1058-04	YØKE		
156	1C		T99-0503-15	MAGNET		
DM	1D		A11-0733-05	SUB CHASSIS ASSY(DISC 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(KSS-240A)		S

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

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Destination 仕	Re-mark 備考
MECHANISM ASS'Y (X92-1709-XX) : JAPAN MADE						
1	3B		A10-2947-01	CHASSIS (MAIN)		
2	2B		A11-0735-03	(FRAME)		
3	1A		A11-0737-02	SUB CHASSIS (CLAMPER)		
11	1B		D10-2325-04	RØD		
12	2B		D10-3253-03	SLIDER		
13	3A		D13-0975-04	GEAR (INTERMEDIATE)		
14	3A		D13-0976-03	GEAR (CENTER)		
15	3A		D13-0977-03	GEAR (CARRIER)		
16	3A		D13-0978-03	GEAR (IDLER)		
17	2A		D13-0979-03	GEAR (MAIN)		
18	2A		D13-0980-02	LACK (GEAR)		
19	2B		D13-0997-05	GEAR (MØTER)		
20	1B		D13-0998-05	GEAR (INTERMEDIATE)		
21	1B		D13-0999-05	GEAR (FEED)		
25	3B		D15-0328-04	MOTOR PULLEY		
26	3A		D15-0329-03	PULLEY		
27	3B		D16-0329-04	BELT		
30	1B		E35-0296-05	FLAT CABLE		
31	2B		E35-0420-05	LEAD WIRE		
35	2B		G01-3484-04	COMPRESSION SPRING		
40	1B, 2B		J02-1058-15	INSULATOR		
41	1A		J11-0180-03	CLAMPER		
42	2A		J99-0513-01	TRAY		
A			N09-2769-05	MACHINE SCREW		
B			N09-2817-05	TAPTITE SCREW (2.6X10, 12P)		
C			N09-2543-05	SEMS (MACHINE SCREW)		
D			N39-2025-46	PAN HEAD MACHIN SCREW		
E			N19-0891-04	FLAT WASHER		
F			N82-2608-46	BINDIG HEAD TAPTITE SCREW		
G			N89-2008-46	BINDING HEAD TAPTITE SCREW		
S2	2B		S33-1022-05	LEVER SWITCH (SLT)		
55	1A		T50-1058-04	YØKE		
56	1A		T99-0503-15	MAGNET		
DM	1B		A11-0679-18	SUB CHASSIS ASSY(DISC MOTOR)		
FM	2B		T42-0566-05	DC MOTOR (FEED MOTOR)		
LM	3B		T42-0609-05	DC MOTOR (LOADING MOTOR)		
PU	1B		T25-0013-05	OPTICAL PICKUP HEAD(KSS-240A)		
MECHANISM ASSY (X92-1750-XX) : SINGAPORE MADE						
101	3D		A10-2974-01	CHASSIS (MAIN)		S
102	2D		A11-0756-03	SUB CHASSIS (FRAME)		S
103	1C		A11-0757-02	SUB CHASSIS (CLAMPER)		S
111	1D		D10-2490-04	RØD		
112	2D		D10-3253-03	SLIDER		
113	3C		D13-0975-04	GEAR (INTERMEDIATE)		S
114	3C		D13-0976-03	GEAR (CENTER)		
115	3C		D13-0977-03	GEAR (CARRIER)		

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Y:PX(Far East, Hawaii)
Y:AAFES(Europe)

K:USA
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X:Australia

P:Canada
E:Europe
M:Other Areas

S : SINGAPORE MADE

△ indicates safety critical components

L:Scandinavia
Y:PX(Far East, Hawaii)
Y:AAFES(Europe)

K:USA
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M:Other Areas

S : SINGAPORE MADE

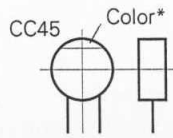
△ indicates safety critical components

PARTS LIST

CAPACITORS

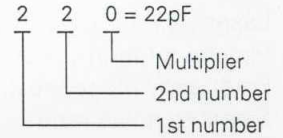
CC	45	TH	1H	220	J
1	2	3	4	5	6

- 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



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)

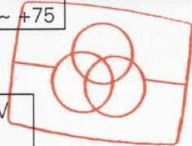
Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF -10 ~ +50 Less than 4.7μF -10 ~ +75

(Less than 10pF)

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

Voltage rating

2nd word	A	B	C	D	E	F	G	H	J	K	V	
1st word	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	-	-



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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

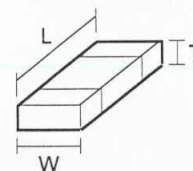
(Chip) (B,F)

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

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

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-B5/B9

SPECIFICATIONS

CD Player unit (DP-B5/B9)

Laser	Semiconductor laser
Playing rotation	200rpm~500rpm (CLV)
Frequency response	20Hz~20kHz, +0dB, -1.5dB
Signal to noise ratio	More than 93dB
Total harmonic distortion	Less than 0.01% (at 1kHz)
Channel separation	More than 85dB (at 1kHz)
Wow & Flutter	Unmeasurable limit
Digital output optical (DP-B9 only)	-15dBm~-21dBm (Wave length 660nm)
[General]	
Dimensions	W : 270mm (10-5/8")
	H : 85mm (3-3/8")
	D : 264mm (10-3/8")
Weight (net)	2.0kg (4.4lb)

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

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the 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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99-994 Iwaena St. Aiea, Hawaii 96701

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Via G. Sirtori, 7/9 20129 Milano, Italy

KENWOOD ESPAÑA S.A.

Bolivia, 239-08020 Barcelona, Spain

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P.O. BOX 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Unit 3712-3724, Level 37 Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong N.T. Hong Kong

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