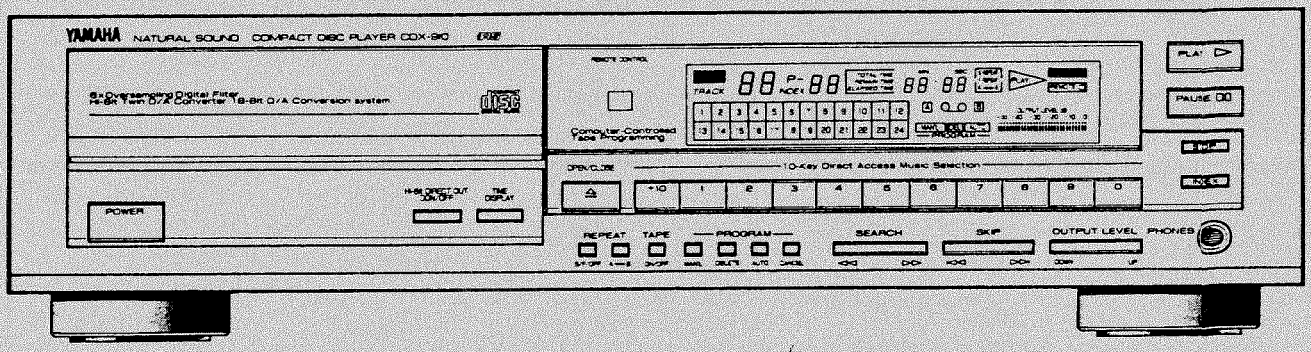
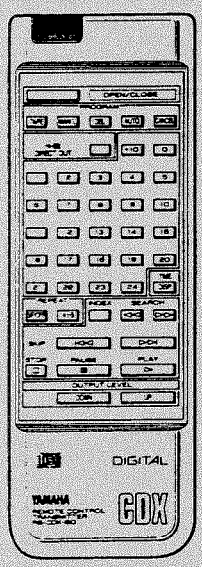
COMPACT DISC PLAYER

CDX-910/U

SERVICE MANUAL





IMPORTANT NOTICE

This manual has been provided for the use of authorized Yamaha Retailers and their service personnel. It has been assumed that basic service procedures inherant to the industry, and more specifically Yamaha Products, are already known and understood by the users, and have therefore not been restated.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all Yamaha product owners that all service required should be performed by an authorized Yamaha Retailer or the appointed service representative.

IMPORTANT: The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cove. The research, engineering, and service departments of Yamaha are continually striving to improve Yamaha products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

IMPORTANT: Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

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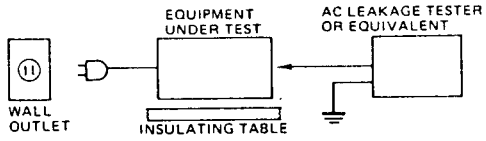
■TO SERVICE PERSONNEL

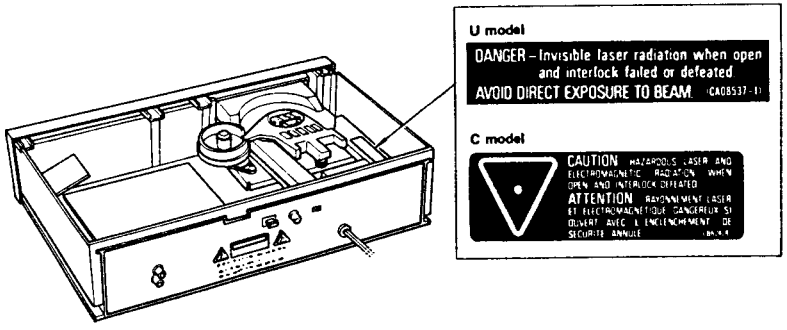
1. Critical Components Information.
   Components having special characteristics are marked and must be replaced with parts having specifications equal to those originally installed.
2. Leakage Current Measurement (For 120V Model Only).
   When service has been completed, it is imperative that you verify that all exposed conductive surfaces are properly insulated from supply circuits.

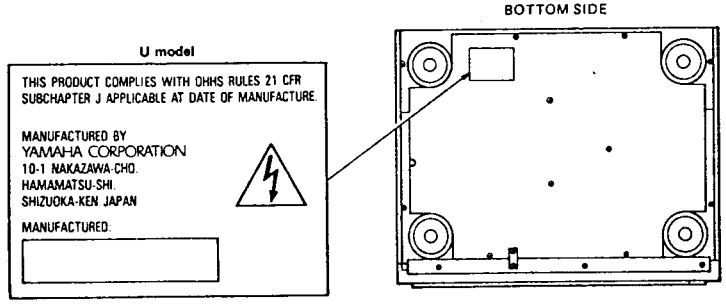
- Meter impedance should be equivalent to 1500 ohm shunted by 0.15μF
- Leakage current must not exceed 0.5mA.
- Be sure to test for leakage with the AC plug in both polarities.
- **POLARIZATION (U, C models)**
  This CD player product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature.



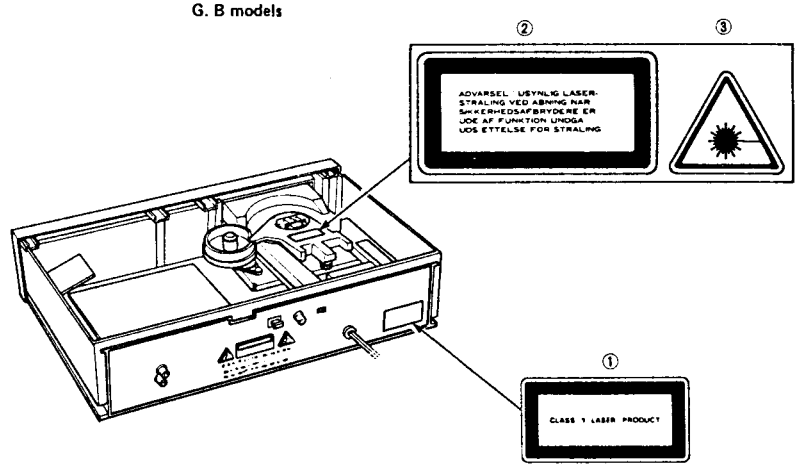
CAUTION – USE OF CONTROLS, ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN, MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

THE COMPACT DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.





G. B models



English

① THIS LABEL IS ATTACHED AT THE PLACE ILLUSTRATED TO INFORM THAT THE APPARATUS CONTAINS A LASER COMPONENT.

② THIS LABEL IS ATTACHED IN THE POSITION SHOWN IN THE ILLUSTRATION TO WARN THAT ANY FURTHER PROCEDURE WILL BRING THE USER INTO EXPOSURE WITH THE LASER BEAM.

③ THE WARNING LABEL INFORMING OF RADIATION IS PLACED INSIDE THE UNIT AS SHOWN IN THE ILLUSTRATION, TO WARN AGAINST FURTHER MEASURES ON THE UNIT. THE EQUIPMENT CONTAINS A LASER COMPONENT RADIATING LASER RAYS EXCEEDING THE LIMIT OF LASER PRODUCTS OF CLASS 1.

CAUTION–USE OF CONTROLS, ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN, MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

Swedish

①PÅSKRIFTEN SITTER PÅ APPARATEM SOM VISAS SOM EN UPPMANING OM ATT APPARATEN OMFATTAR EN INBYGGD LASERKOMPONENT.

②TEXTSKYLTEN FÖR LASERN ÄR PLACERAD PÅ APPARATEN SOM EN UPPMANING OM ATT APPARATEN INNEHÅLLER EN LASERKOMPONENT.

③VARNINGSSKYLTEN FÖR STRÅLNING HAR PLACERATS I APPARATEN, SOM BILDEN VISAR, SOM EN VARNING OM YTTERLIGARE INGREPP I APPARATEN. MATERIELEN INNEHÅLLER EN LASERKOMPONENT SOM AVGER LASERSTRÅLNING ÖVERSTIGANDE GRÄNSEN FÖR LASERKLASS 1.

VARNING–INGREPP I APPARATEN BÖR ENDAST FÖRETAS AV FACKMAN MED KUNSKAP OM ATT RISK FÖRELIGGER FÖR RADIOAKTIV ATRÅLNING.

Danish

①DETTE MÆRKAT ER ANBRAGT SOM VIST I ILLUSTRATIONEN FOR AT ADVARE BRUGEREN OM AT APPARATET INDEHOLDER EN LASERKOMPONENT.

②DETTE MÆRKAT OM LASEREN ER ANBRAGT PÅ APPARATET SOM EN OPLYSNING OM AT APPARATET INDEHOLDER ET LASERKOMPONENT.

③ADVARSELSKILTET OM STRÅLING ER PLACERET INDEN I APPARATET, SOM VIST I ILLUSTRATIONEN, SOM EN ADVARSEL OM YDERLIGERE INDGREB I APPARATET. APPARATET INDEHOLDER ET LASERKOMPONENT SOM AVGIVER LASESTRÅLING DER OVERSTIGER GRÆNSEVERDIEN FOR LASERKLASSE 1.

ADVARSEL! INDGREB BØR KUN FORETAGES AF EN FAGMAND DA DER ER RISIKO FOR RADIOAKTIV STRÅLING.

Finnish

③"VAROITUS! LAITE SISÄLTÄÄ LASERDIODIN, JOKA LÄHETTÄÄ (NÄKYMÄTÖNTÄ) SILMILLE VAARALLISTA LASERSÄTEILYÄ:"

■ INTERLOCK OPERATION

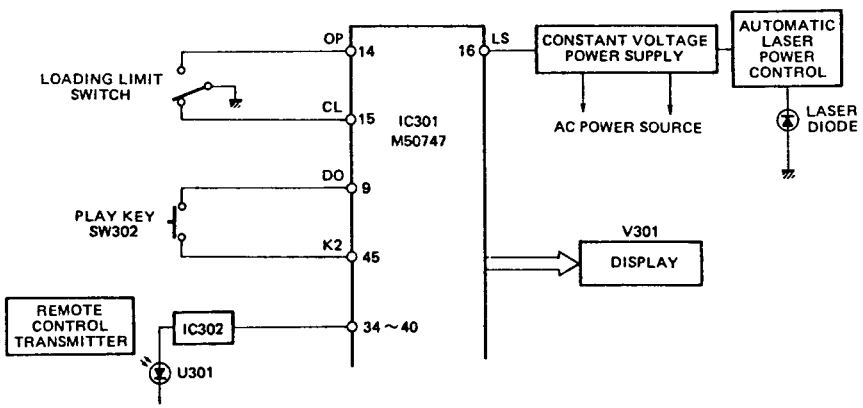
The Digital Compact Disc Player reads the disc signals by laser beam detection. It must be avoided for the human body to be directly exposed to the laser beam. Human eyes are especially badly affected by the laser beam. This unit is therefore equipped with an interlock to prevent unnecessary laser output.

Laser output is controlled by the injection or cutoff of the constant voltage source to the laser diode at Pin 16 (LS) of IC301 (M50747), and also by Automatic Laser Power Control Circuit. When Pin 16 is in "H" (High) level, the laser emits the beam. When Pin 16 is in "L" (Low) level, the laser does not emit the beam.
Pin 16 is set in "H" level when the unit is loaded with the disc and it reads the index signals or when the unit is set in the play mode after that. When the unit reads the index signals and the following two conditions are met, the laser emits the beam.

1) When the Loading Limit Switch is set in "CL" side. (The disc tray is closed.)
2) The pickup is located at the area of minimum internal circumference.

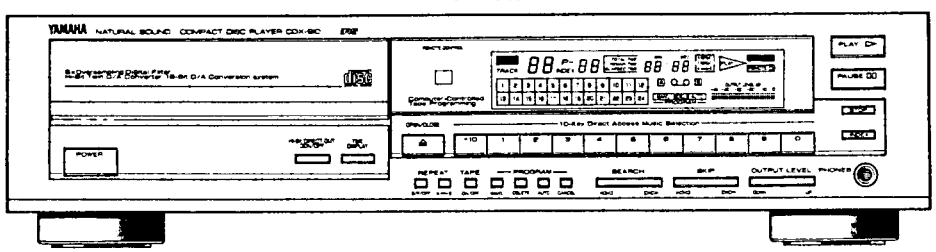
After the above conditions are met and the index signals have been read, the laser emits the beam when the following two conditions are met.

1) whent the PLAY key (SW302) or that of Remote Control Transmitter is pressed.
2) when the PLAY display is ON.

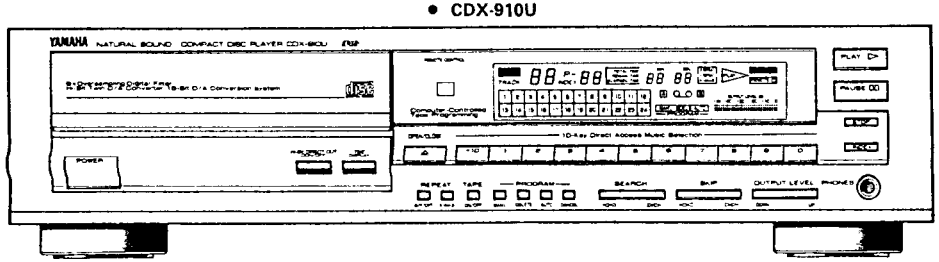


■ FRONT PANELS

• CDX-910

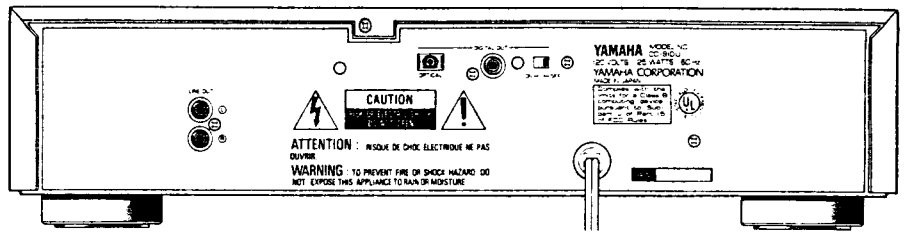


• CDX-910U

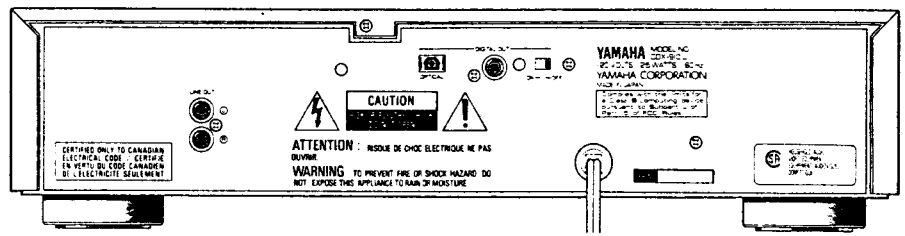


■ REAR PANELS

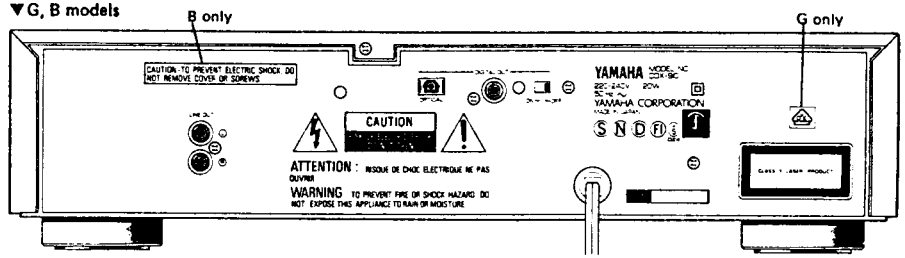
▼U model



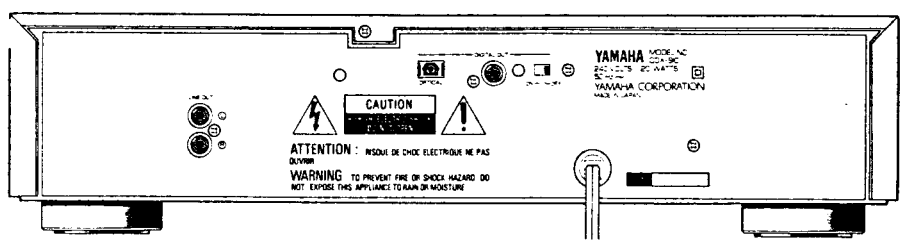
▼C model



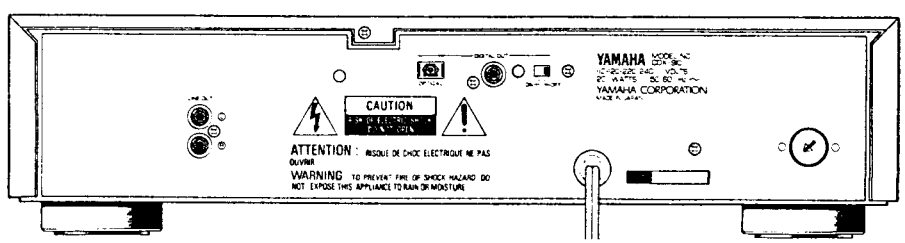
▼G, B models



▼A model



▼R model



■ SPECIFICATIONS

■ AUDIO SECTION

Frequency Response	2Hz ~ 20kHz ± 0.3dB
De-Emphasis Equalization	± 0.3dB (EIAJ)
Harmonic Distortion + Noise	Less than 0.003%, 1kHz (EIAJ)
S/N Ratio	118dB (EIAJ)
Dynamic Range	More than 100dB (EIAJ)
Wow & Flutter	Unmeasurable
Channel Separation	More than 100dB, 1kHz (EIAJ)
Output Voltage	2V (EIAJ)
Output Impedance	2.2kΩ
Headphone Output	450mV/150Ω (–20dB)

■ INTERNAL SYSTEMS

Optical Pick-up	3-beam laser
Error Correction System	CIRC, dual error correction system
D/A Conversion	18 bit floating (L, R twin)
Filter	Digital filter and 3rd order new active filter

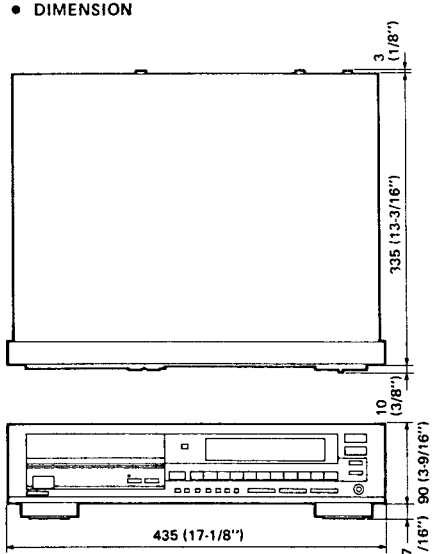
■ GENERAL

Power Requirements	
U, C models	120V AC, 60Hz
G, B models	220–240V AC, 50Hz
A model	240V AC, 50Hz
R model	110–120/220–240V AC, 50/60Hz
Power Consumption	
U, C models	25W
G, B, A, R models	20W
Dimensions (W x H x D)	435 x 107 x 348 mm (17-1/8" x 4-3/16" x 13-11/16")
Weight	7.5kg (16 lbs 8 oz.)
Accessories	Pin plug cord Remote control transmitter (RS-CDX910) Dry-cell: X2 (Size "AA", "R06")

Specification subject to change without notice.

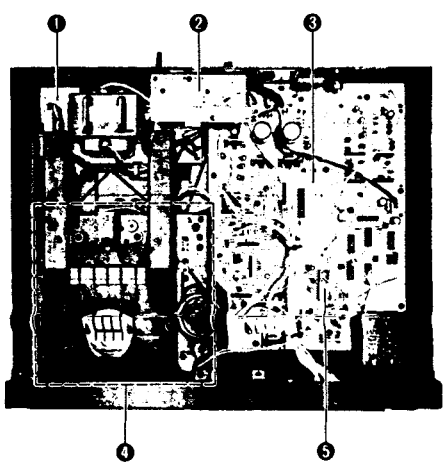
U ..... U. S. A model
C ..... Canadian model
B ..... British model
A ..... Australian model
G ..... European model
R ..... General model

● DIMENSION



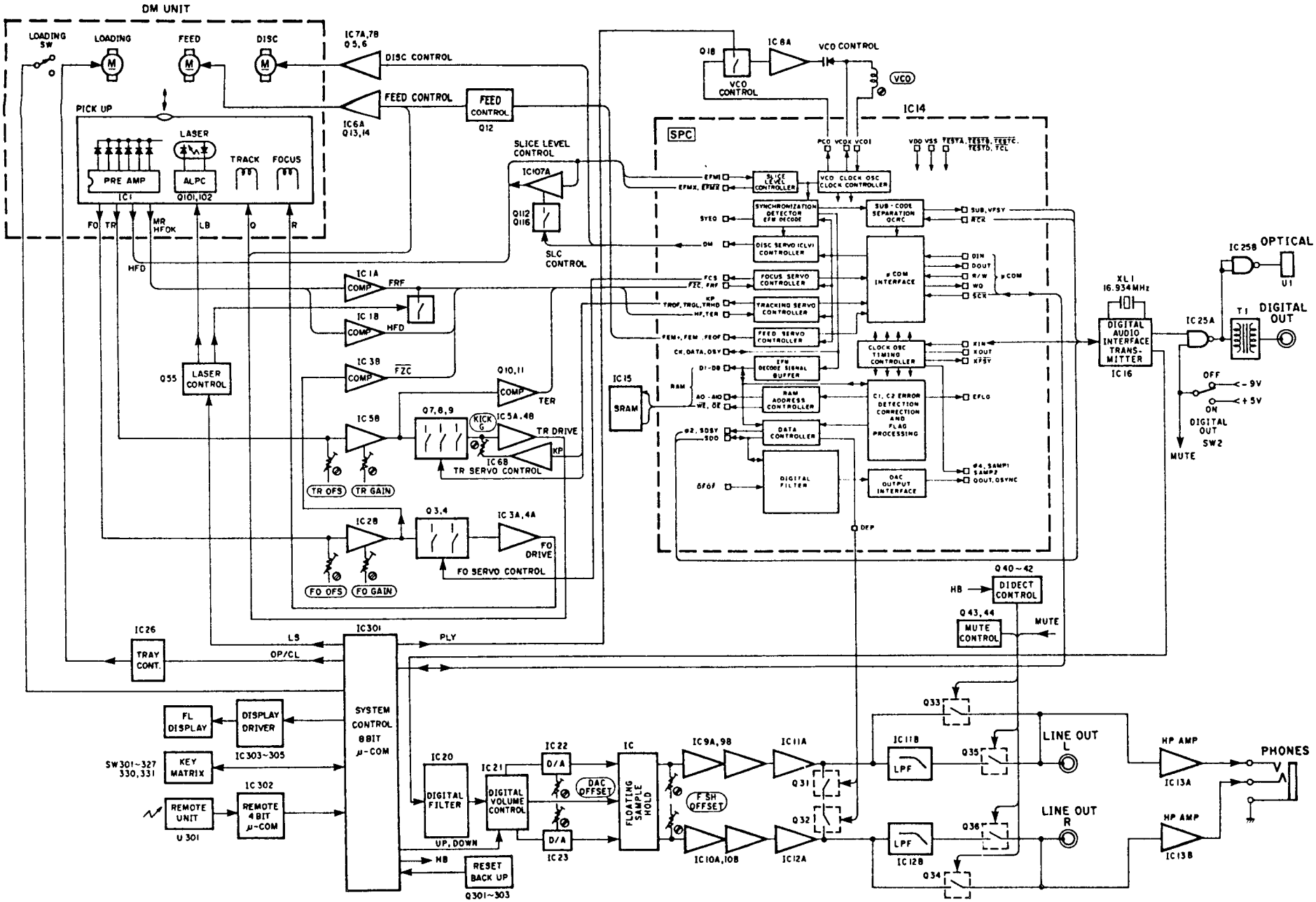
Unit ; mm (inch)

■ INTERNAL VIEW



❶ POWER SUPPLY UNIT
❷ MAIN CIRCUIT BOARD (2)
❸ MAIN CIRCUIT BOARD (1)
❹ DISC MECHANISM UNIT
❺ IC16 : YM3613B
(Digital Audio Interface Transmitter)

BLOCK DIAGRAM



CDX-910/U

CDX-910/U

■ DISASSEMBLY PROCEDURES

(Remove parts in disassembly order as numbered.)

1. Removal of Top Cover

a. Remove 5 screws (①) in Fig. 1, and slide the Top Cover to the back side.

2. Removal of Front Panel

a. Remove 9 screws (②) in Fig. 1, and pull the Front Panel forward.

3. Removal of Bottom Cover

a. Remove 12 screws (③) in Fig. 1.

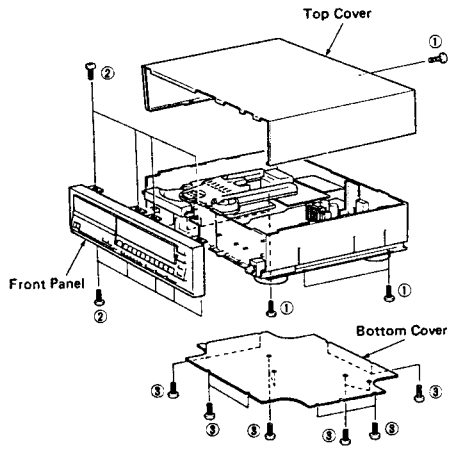


Fig. 1

4. Removal of Disc Tray Ass'y

a. Pull out the Disc Tray Ass'y by turning the loading cam and remove it by pressing the hook.

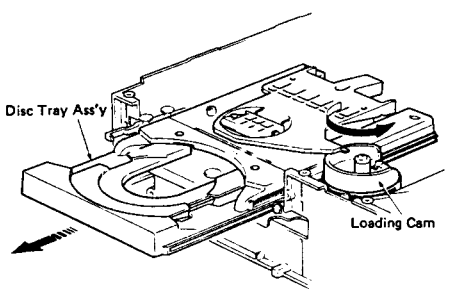


Fig. 2

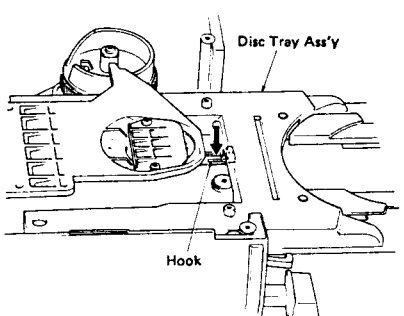


Fig. 3

5. Removal of Disc Mechanism Unit

a. Remove 4 screws (④) in Fig. 4.

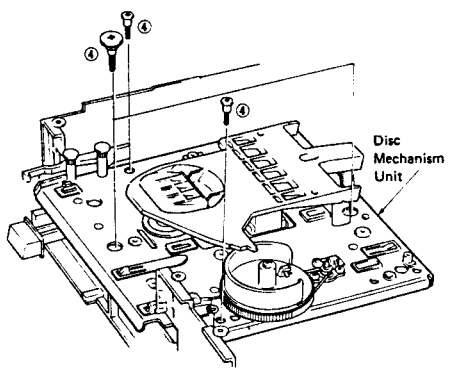


Fig. 4

6. Removal of Disc Motor

a. Remove 2 screws (⑤) fixing Flapper in Fig. 5 and then remove the flapper.

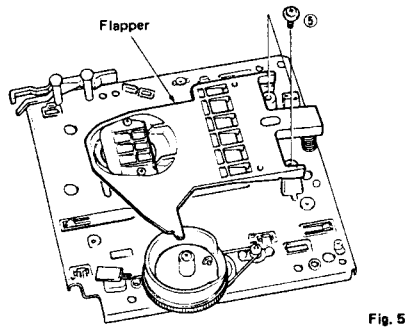


Fig. 5

b. Pull off the disc table and remove 2 screws (⑥) in Fig. 6.

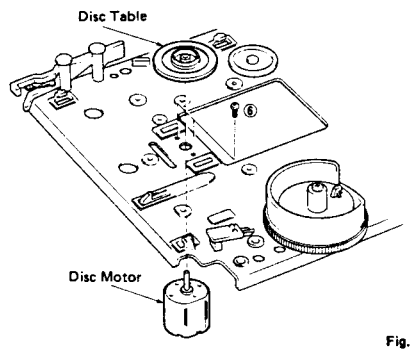
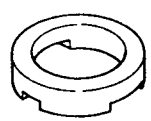


Fig. 6

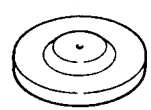
- **Installation of disc table**

※ The following tools are necessary for installation.

Height adjustment gauge (TX913130)



Disc table installer (TX913140)



a. Install the height adjustment gauge as shown in Fig.7.

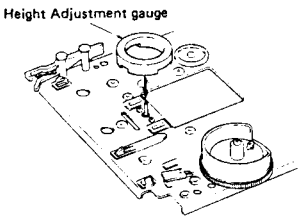


Fig. 7

b. Carefully apply a small amount of anaerobic glue to motor shaft (Loc-Tite # 638).
c. Install turntable onto motor shaft with disc table installer as shown in Fig. 8.
d. Clean excess glue from top of turntable.
e. Allow 5 minites for glue to cure before removing disc table installer and height gauge.

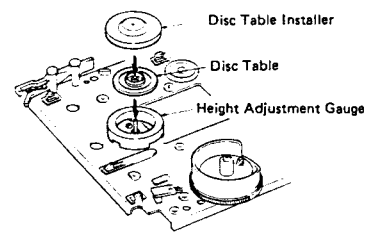


Fig. 8

f. Check that the disc table height is as specified below.

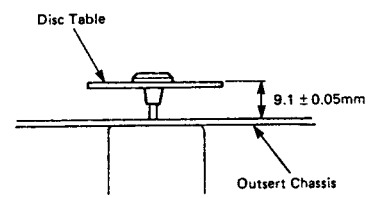


Fig. 9

■ ADJUSTMENTS

- **Necessary items**

Measuring instruments

Oscilloscope : x 2
(At least one shall have a bandwidth of 50 MHz or more)
Audio frequency oscillator (A.F. OSC) : x 1
Laser power meter : x 1
(LEADER LPM-8000 (P/N TX915140) or equivalent)
AC voltmeter (ACVM) : x 2
(One dual channel or two single channel meters)
DC voltmeter (DCVM) : x 1
Frequency counter (FC) : x 1

Jigs

Test disc : x 1
(YEDS-18 P/N TX911730, YEDS-7 P/N TX911320 or Philips test sample disc)
Filter (See Fig. A) : x 1
Shorting cord : x 1

Tools

Screwdriver : x 1
(For-Pre-Set Potentiometer adjustment)
Core screwdriver : x 1

- **Adjustment jig (with internal filter)**

Connect the filter in Fig. A before measurement.

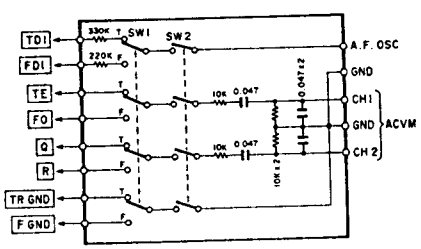


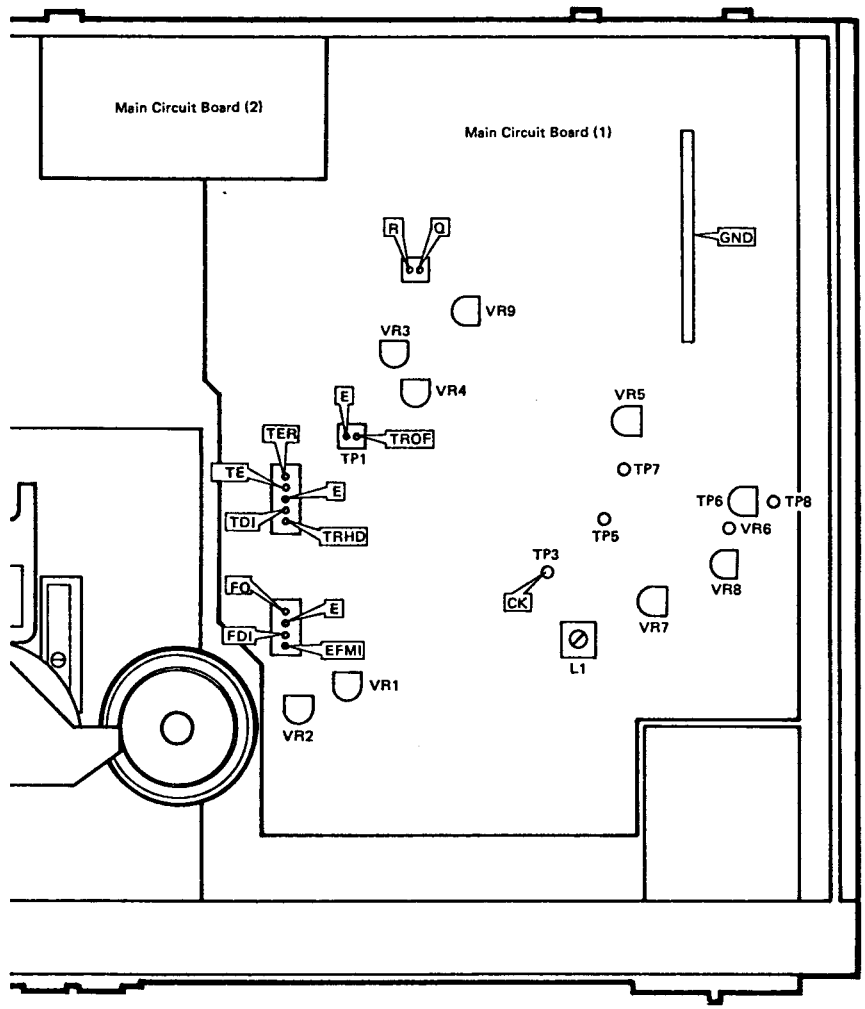
Fig. A

SW1 : FOCUS gain and TRACKING gain switching
SW2 : Filter ON/OFF switch

- **Precautions or Special Notes**

1. Measure the output level at the output terminal of the AF oscillator.
2. When disc tray has been removed from the mechanism, make sure the position of the loading cam and the leaf switch are correct.
3. The unit should always be in a horizontal position while performing adjustments.

- **Test Point**



★ Carry out following adjustments in order as numbered.

Step 1. Confirmation of Laser Output.
Step 2. Confirmation of Focus Actuator Operation.
Step 3. Adjustment of VCO.
Step 4. Adjustment of Tracking Gain
Step 5. Adjustment of Focus Gain
Step 6. Adjustment of Tracking Offset
Step 7. Adjustment of Focus Offset
Step 8. Adjustment of Kick Gain
Step 9. Confirmation of Jitter
Step 10. Confirmation of Skip Search Operation
Step 11. Adjustment of DAC Offset
Step 12. Adjustment of FSH Offset

Confirmation of Laser Output (Step 1)

① Do not load the disc.
② Remove the disc tray.
③ Remove the flapper.
④ Apply the laser power meter's sensor to the pick-up head as shown in Fig. B.
⑤ Press POWER key. (POWER ON)
⑥ Measure the laser output during the 5 seconds of FOCUS search mode.

Rating: Laser output = 0.1mW to 0.5mW

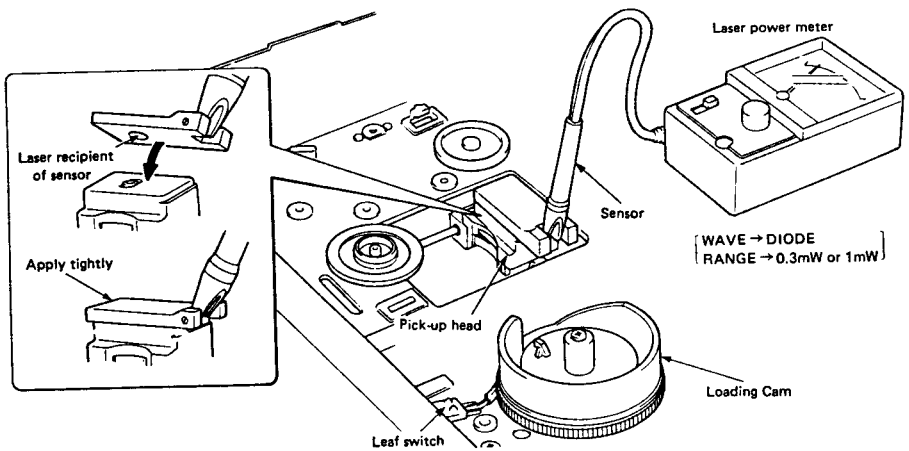


Fig. B

Precautions in handling pick-up head

(1) No soldering necessary for the unit.
(2) Since laser light is near-infrared, visual confirmation is difficult. While light is emitted, for safety make sure your eyes are at least 30 cm away from the objective lens.
(3) Do not disassemble it.
(4) Do not drop or apply shock to it.
(5) Do not leave it under high temperature or humidity.
(6) Do not touch the objective lens. Should there be dirt on the lens, clean using a blower for cameras.

Confirmation of Focus Actuator Operation (Step 2)

Approx. 5 sec

Oscilloscope (1) setting
- DC coupling
- 1V/div range (Verticla)
  (0.1/div when 10:1 probe is used)
- 0.5 sec/div time (Horizontal)

① Do not load a disc.
② Connect the oscillocope (1) to R and E terminals.
③ Press POWER key. (POWER ON)
④ After confirming that loading cam position is correct press OPEN/CLOSE key for CLOSE operation.
⑤ During 5 seconds of FOCUS search, confirm that the waveform is as shown in Fig. C.
⑥ Confirm that the pick-up head's objective lens moves smoothly between the lowest and highest points.

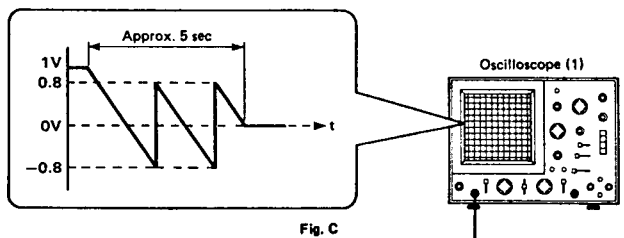
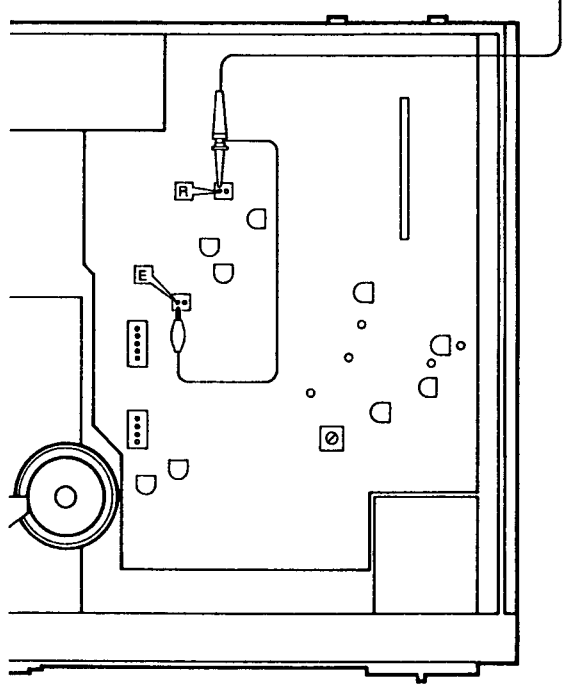


Fig. C



Adjustment of VCO (Step 3)

① Connect the shorting cord and measuring instruments, as shwon in Fig. D.
② Do not load a disc.
③ Press POWER key. (POWER ON)
④ While observing the frequency counter indication (FVCO), adjust L1 so that it satisfies the rating.
Rating: F_{VCO} = 4.3218 MHz ± 10 kHz

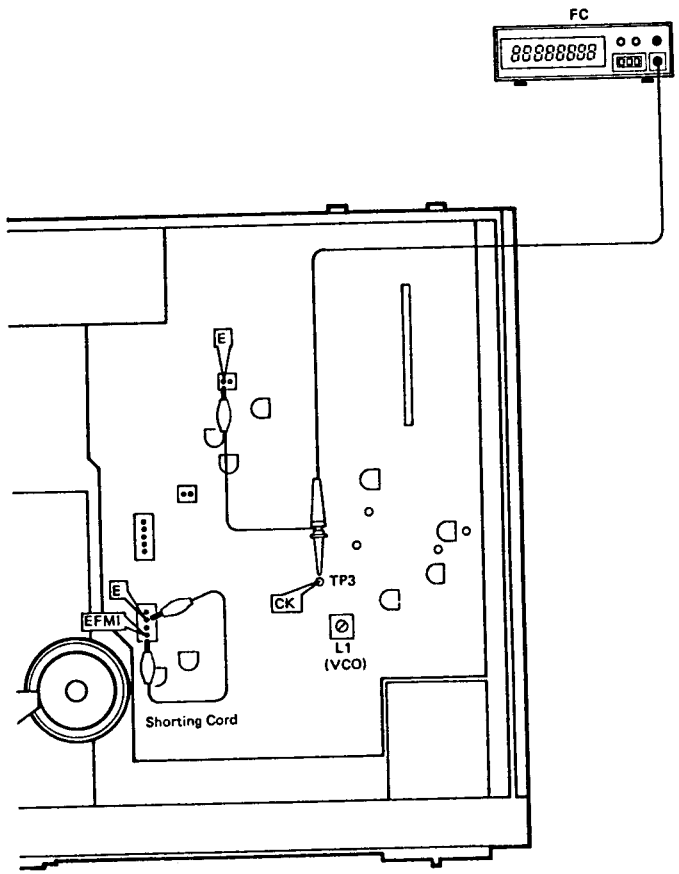


Fig. D

Adjutment of Tracking Gain (Step 4)

* This adjustment requires use of two single channel AC voltmeters or one dual channel AC voltmeter.

① Connect the filter and measuring instruments, as shown in Fig. E.
Apply a 800 Hz, 100 mVrms signal from the AF oscillator to TDI terminal via the resistor (330 kiloohms) in the filter.
② Set SW2 to OFF.
③ Set SW1 to T (TRACKING).
④ Press POWER key. (POWER ON)
⑤ Load the test disc.
⑥ Press PLAY key.
⑦ Set SW2 to ON.
⑧ While observing the indications of the AC voltmeters (CH1: E_{TE}, CH2: E_Q), adjust VR3 (TRACKING GAIN) so that they satisfy the rating.
Rating: $E_{TE} - E_Q$ = 17dB

Example [0dBV = 1V]
E_Q = −30dBV (30mV)
E_{TE} = −13V (223mV)

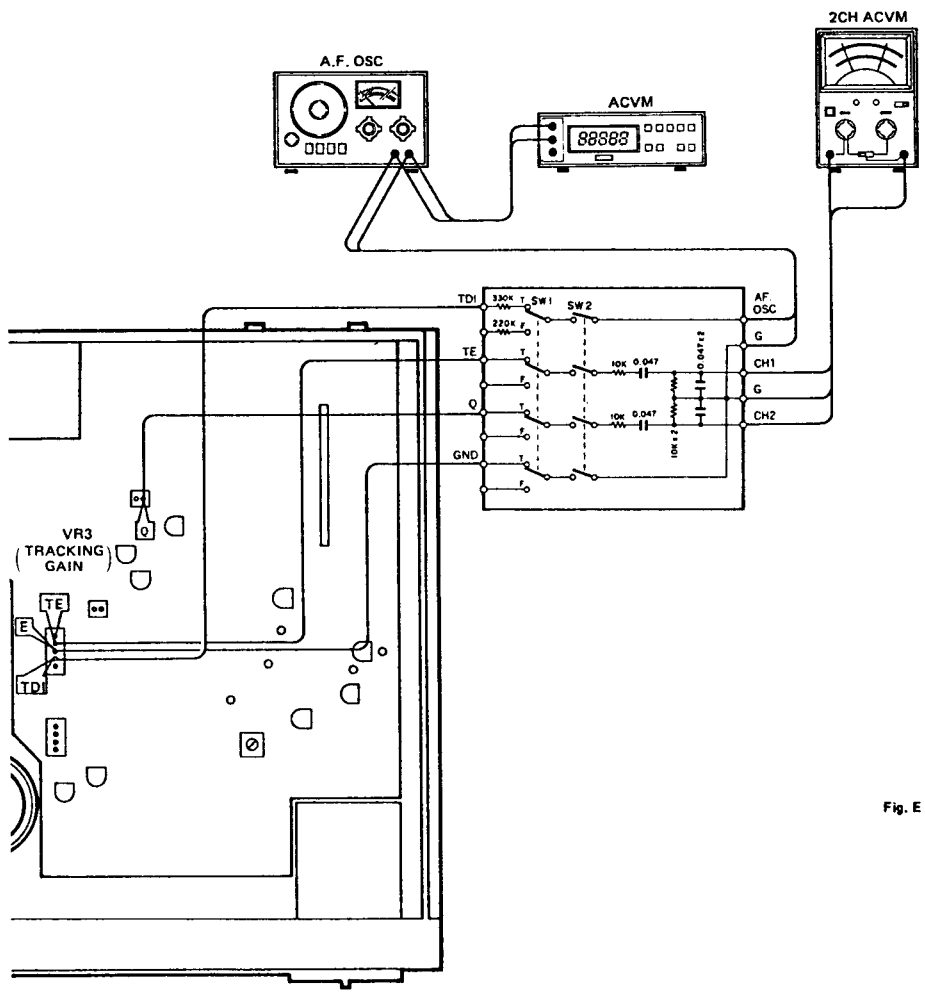


Fig. E

Adjustment of Focus Gain (Step 5)

* This adjustment requires use of two single channel voltmeter or one dual channel AC voltmeter.

① Connect the filter and measuring instruments, as shown in Fig. F.
Apply an 800 Hz, 4.5 Vrms signal from the AF oscillator to [FDI] terminal via the resistor (220 kiloohms) in the filter.
② Set SW2 to OFF.
③ Set SW1 to F (FOCUS).
④ Press POWER key. (POWER ON)
⑤ Load the test disc.
⑥ Press PLAY Key.
⑦ Set SW2 to ON.
⑧ Read the indications of the AC voltmeters (CH1: E_{FO}, CH2: E_R), adjust VR2 (FOCUS GAIN) so that they satisfy the rating.

Rating: $E_{FO} - E_R = 8dB$

Example	[0dBV = 1V]
E_{FO} =	−16dBV (160mV)
E_R =	−24dBV (63mV)

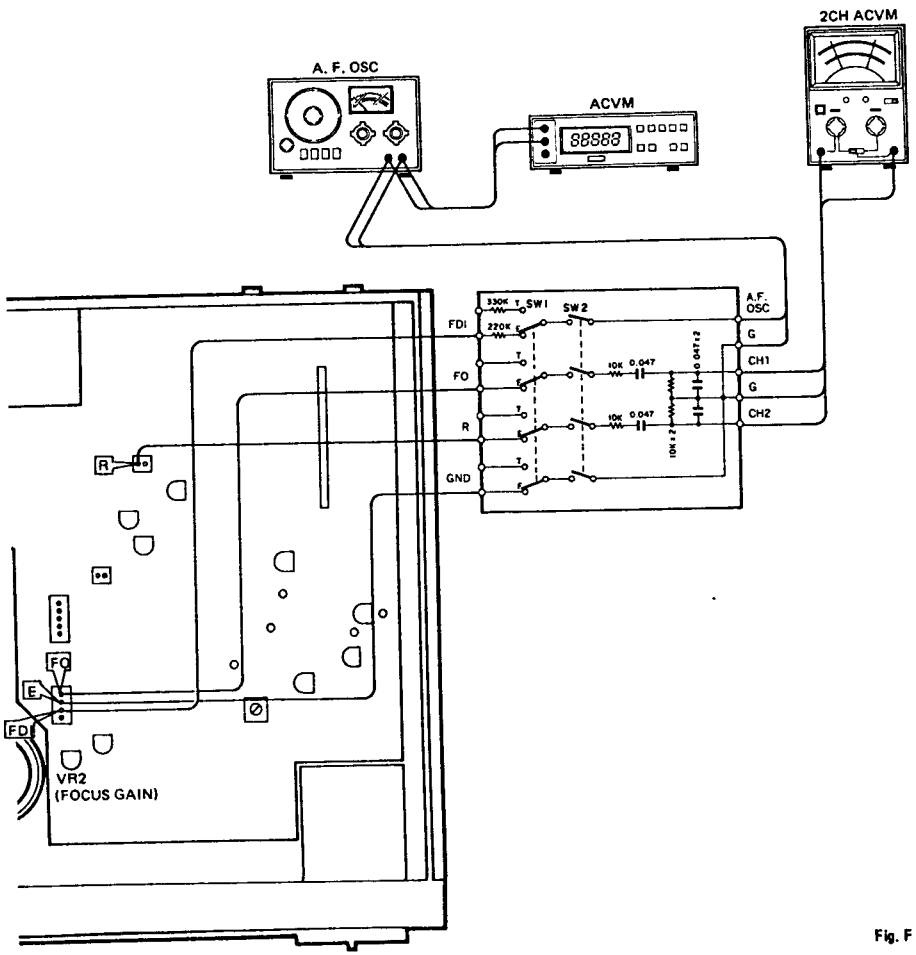


Fig. F

Adjustment of Tracking Offset (Step 6)

① Connect a DC voltmeter to [Q] and [E] terminals.
② Press POWER key. (POWER ON)
③ Press STOP key.
④ Short between the [TROF] and [E] terminals. (Laser OFF)
⑤ While observing the indication (E_Q) of the DC voltmeter, adjust VR4 (TRACKING OFFSET) so that it satisfies the rating.

Rating: E_Q = 0 V DC ± 25mV DC

Adjustment of Focus Offset (Step 7)

① Connect a DC voltmeter to [R] and [E] terminals.
② Press POWER key. (POWER ON)
③ Press STOP key.
④ Short between the [TROF] and [E] terminals. (Laser OFF)
⑤ While observing the indication (E_R) of the DC voltmeter, adjust VR1 (FOCUS OFFSET) so that it satisfies the rating.

Rating: E_R = 0V DC ± 25mV DC

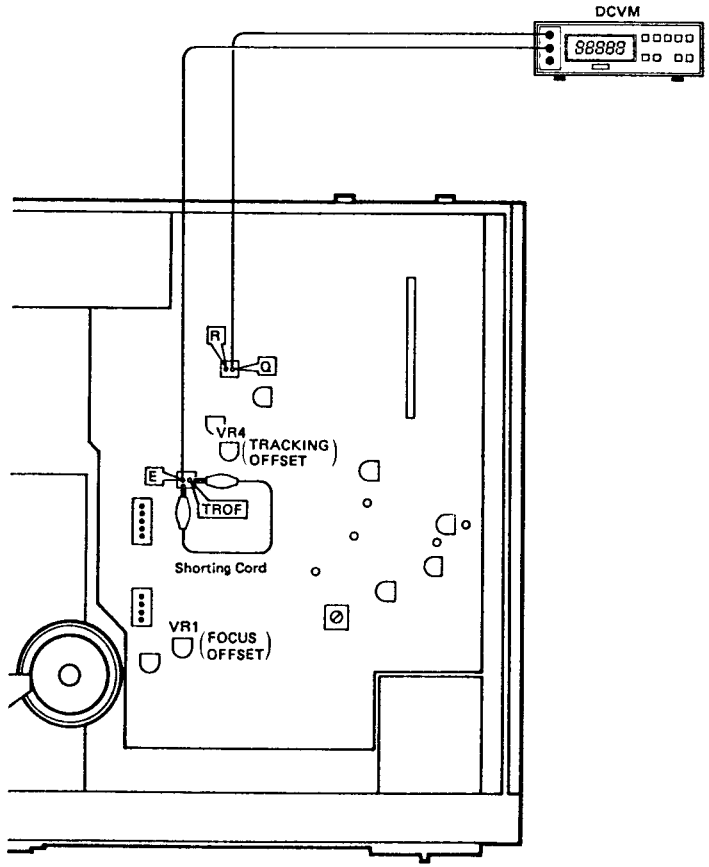


Fig. G

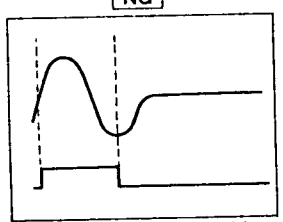
Adjustment of Kick Gain (Step 8)

Oscilloscope (1) (2-ch oscilloscope) Settings

- DC coupling
- CH1 → TER terminal: 0.1V/div (Vertical) (10 mV/div when 10 : 1 probe is used)
- CH2 → TRHD terminal: 5V/div (Vertical) (0.5V/div when 10 : 1 probe is used)
- TRIGGER MODE: 2 CH
- 0.2msec/div time (Horizontal)

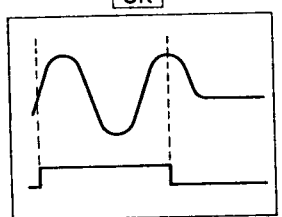
① Connect the measuring instruments, as shown in Fig. H.
② Press POWER key. (POWER ON)
③ Load the test disc.
④ Press PLAY key.
⑤ Observe waveform while pressing Fast Forward mode key (▶▶) for 3 seconds.
⑥ Adjust VR9 (KICK GAIN) so that the TER signal cycle is 1.0 when TRHD signal level is High.
* Adjust at the inner circumference of the disc.
⑦ Press Reverse mode key (◀◀) for 3 seconds and confirm that TER signal cycle is within the above specification but in reverse phase.

NG



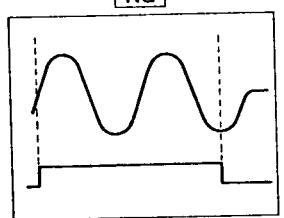
This shows about 0.75 cycle which is incorrect

OK



This shows about 1.25 cycle which is within specification.

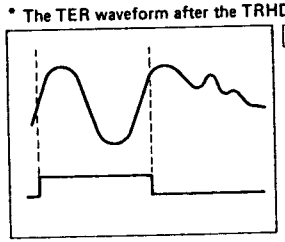
NG



This shows about 1.75 cycle which is incorrect

* The TER waveform after the TRHD rise should converge gently.

NG



Not converging gently

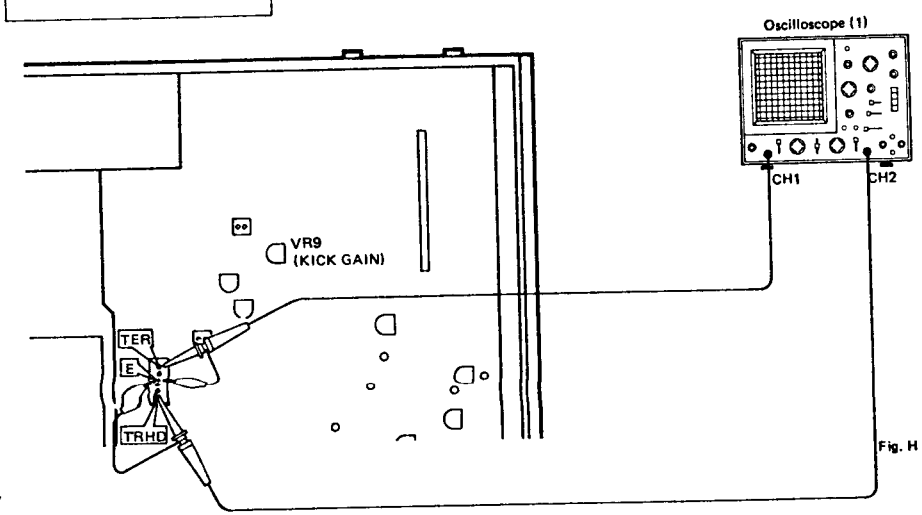


Fig. H

Confirmation of Jitter (Step 9)

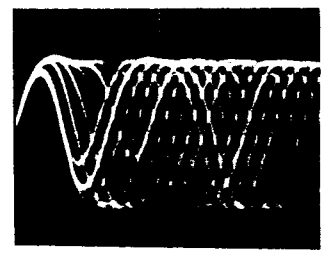
Oscilloscope (2) Settings

- AC coupling
- 0.2 V/div range (Vertical) (50 mV/div when 10 : 1 probe is used)
- 0.2 ~ 0.5 μsec/div time (Horizontal)

① Connect oscilloscope (2) to EFMI terminal, as shown in Fig. F.
② Press POWER key. (POWER ON)
③ Load the test disc.
④ Press PLAY key.
⑤ Confirm that the EFMI signal (eye-pattern) waveform is distinct and clear.
* Confirm at the center of the disc.

Oscilloscope (2)

Eye pattern



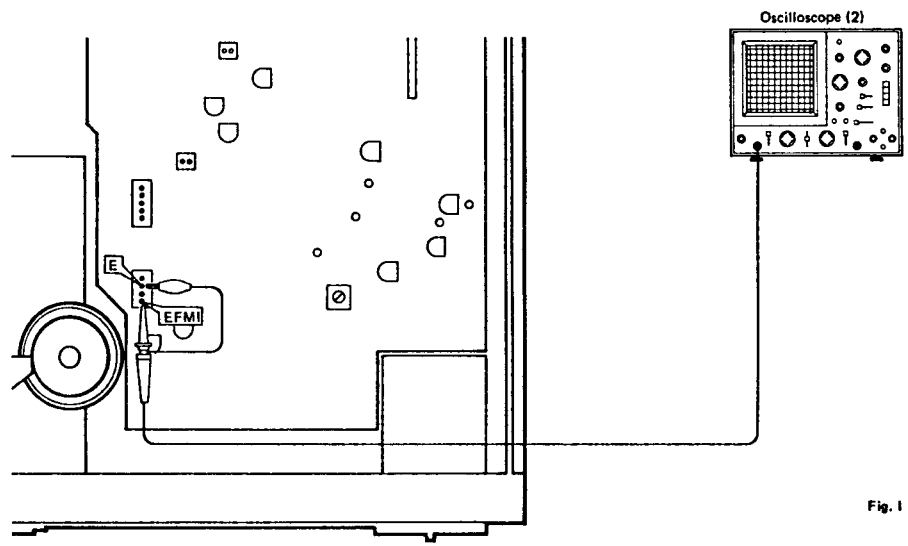
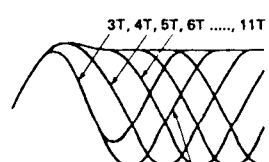


Fig. I

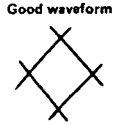
Waveforms 3T – 11T.



This portion is referred to as the eye pattern.

The abnormal eye pattern has less distinct lines and smaller amplitude than that of the good waveform.

Good waveform



Abnormal waveform

Confirmation of Skip Search Operation (Step 10)

① Load the disc.
② Press the PLAY key.
③ Press the skip key (⏭) or 10 key to start searching.
④ Confirm that the skip is searched properly.

Adjustment of DAC Offset (Step 11)

① Connect the DC voltmeter between TP5 and ground (L ch).
② Connect the DC voltmeter between TP6 and ground (R ch).
③ Press the STOP key.
④ Adjust VR7 (L ch) and VR8 (R ch) so that the specified rating is obtained.

Rating: 0V DC ± 1mV DC

Adjustment of FSH Offset (Step 12)

① Connect the DC voltmeter between TP5 and ground and between TP7 and ground (L ch).
② Connect the DC voltmeter between TP6 and ground and between TP8 and ground (R ch).
③ Press the STOP key.
④ Adjust VR5 (L ch) and VR6 (R ch) so that the DC voltage difference satisfies its specified rating.

Rating: 0V DC ± 1mV DC

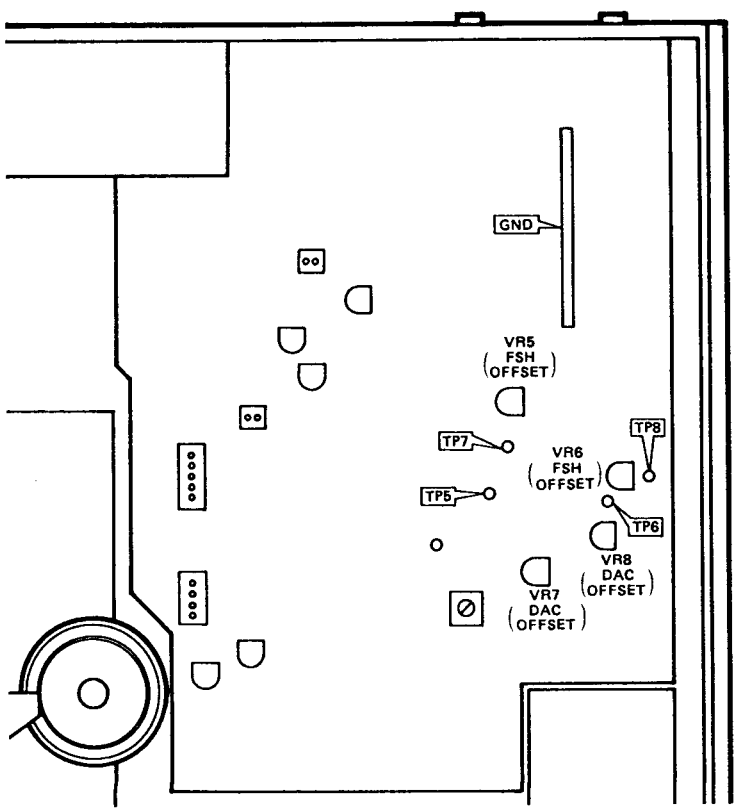
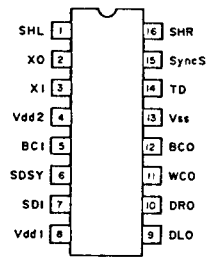
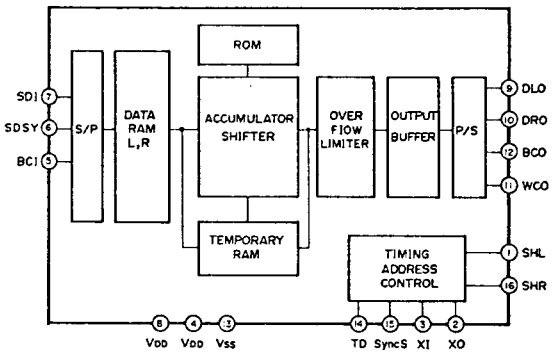


Fig. J

IC DATA

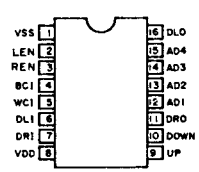
IC20: YM3414
Digital Filter

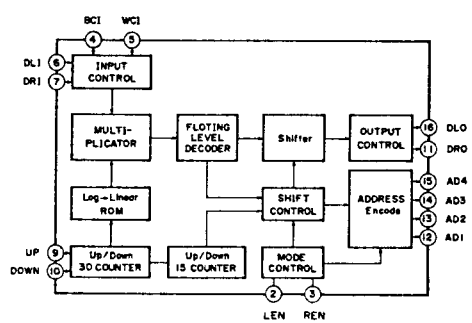




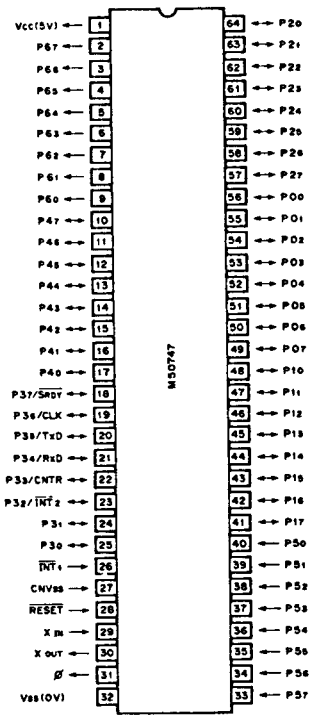
Pin Name	Pin No.	I/O	Description of function
SHL	1	O	At 1DAC (TD = 'L') : Deglitcher signal of Lch (when four-fold) At 2DAC (TD = 'H') : Deglitcher signal of L/Rch (when eight-fold)
X 0 X 1	2 3	O I	Generates quarts oscillation between XI and XO. 16.934MHz (Direct input into XI from the external source is also possible.)
Vdd 2	4		+5V power source for quarts oscillation and deglitcher signal
BCI	5	I	Input terminal for bit clock of input data
SDSY	6	I	Clock to indicate L/Rch distinction of input data and input timing
SDI	7	I	Data input terminal
Vdd 1	8		+5V power source for digital signal system
DLO	9	O	At 1DAC (TD = 'L') : L and R ch data output terminal (when four-fold) At 2DAC (TD = 'H') : L ch data output terminal (when eight-fold)
DRO	10	O	R ch data output terminal
WCO	12	O	Word clock of output data DLO, DRO
BCO	12	O	Bit clock of output data
Vss	13		GND terminal
TD	14	I	1DAC/2DAC select terminal 1DAC (four-fold) = 'L' 2DAC (eight-fold) = 'H'
Sync S	15	I	Synchronous signal to absorb jitter in unsynchronous input (Syncs = 'H' : fully synchrnous input = 'L' : SDSY prohibited)
SHR	16	O	R ch deglitcher signal at 1DAC

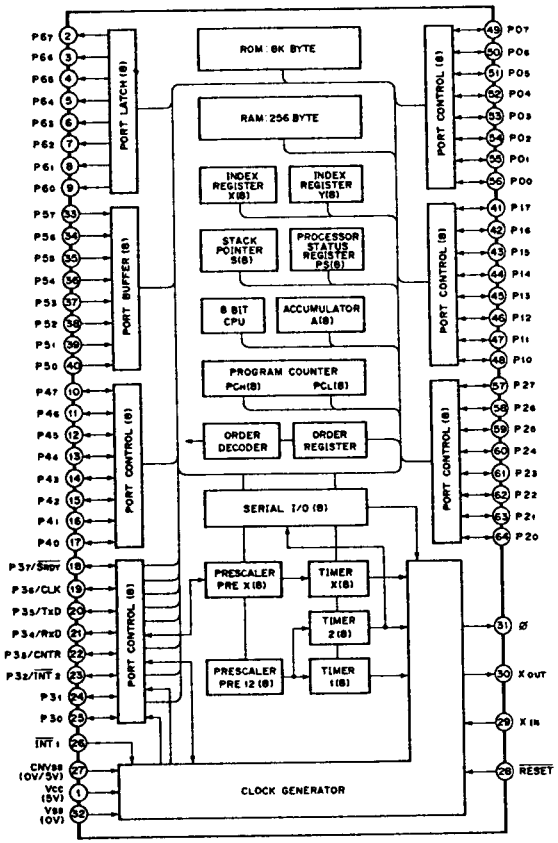
IC21 : YM6013
Digital Volume Controller





IC301 : M50747
8 bit μ-COM



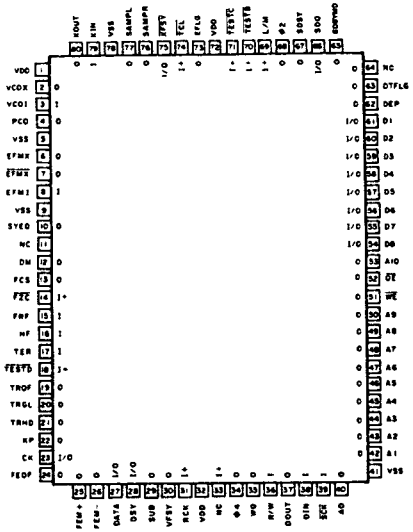


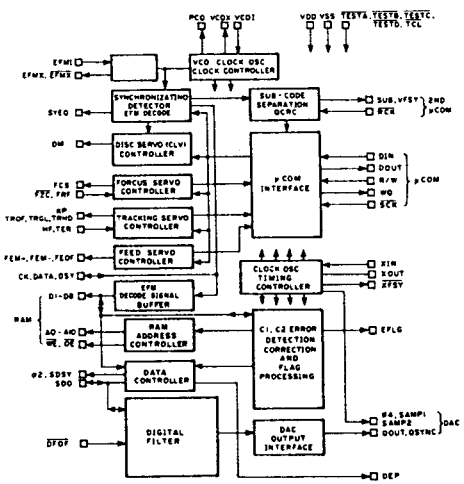
Pin No.	Pin Name	Description	I/O	Active	Function
1	Vcc				5V
2	P67 (O)				N. C.
3	P66 (O)	Sg	O	H	FLT segment n
4	P65 (O)	Sf	O	H	" m
5	P64 (O)	Se	O	H	" l
6	P63 (O)	Sd	O	H	" k
7	P62 (O)	Sc	O	H	" j
8	P61 (O)	Sb	O	H	" i
9	P60 (O)	Sa	O	H	" h
10	P47	D2	O	H	Digit line D2
11	P46	D1	O	H	" D1
12	P45	D0	O	H	" D0
13	P44	BAK	O	H	Back-up DET
14	P43	OPEN	O	H	Open switch
15	P42	CLOSE	O	H	Close switch
16	P41	LASER	O	H	Laser switch
17	P40	PLAY	O	H	PLAY mode output
18	P37/SRDY				N. C.
19	P36/CLK		I/O		SPC Interface
20	P35/TXD	SOUT	O		
21	P34/RXD	SIN	I		
22	P33/CNTR	R_W	O		
23	P32/INT2	MODE	I	H/L	Mode switch
24	P30	WQ	I		SPC Interface
25	P31	CLK	O		
26	INT1				N. C.
27	CNVSS				GND
28	RESET		I		Reset
29	XIN		I		8 MHz Clock
30	XOUT		O		
31	ø		O		Timing output
32	VSS				GND
33	P57 (I)	CD_STOP	I	L	System Input
34	P56 (I)	CD_PLAY	I	L	
35	P55 (I)	QUICKRV	I	H	
36	P54 (I)	RM4	I		Remote control interface
37	P53 (I)	RM3	I		
38	P52 (I)	RM2	I		
39	P51 (I)	RM1	I		
40	P50 (I)	RM0	I		
41	P17	K7	I		Key input line
42	P16	K6	I		
43	P15	K5	I		
44	P14	K4	I		
45	P13	K3	I		
46	P12	K2	I		
47	P11	K1	I		
48	P10	K0	I		
49	P07	CLOSESW	O	L	END switch (close)
50	P06	OPENSW	O	L	END switch (open)
51	P05	Su	O	H	FLT segment u
52	P04	St	O	H	" t
53	P03	Ss	O	H	" s
54	P02	Sr	O	H	" r
55	P01	Sg	O	H	" g
56	P00	Sp	O	H	" p
57	P27	So	O	H	" o
58	P26	Sn	O	H	" g
59	P25	Sm	O	H	" f
60	P24	Sl	O	H	" e
61	P23	Sk	O	H	" d
62	P22	Sj	O	H	" c
63	P21	Si	O	H	" b
64	P20	Sh	O	H	" a

CDX-910/U

IC14 : YM3616
Signal Processor & Controller

YM3616 is a CMOS LSI for signal processing and servo control of the compact disc player.
It executes such signal processing as demodulation of the EFM signal from the optical pick-up, detection and correction of the erroneous signal and digital filtering which helps to improve the sound quality, as well as such intelligent servo controlling as focus, disc, tracking and feeding.

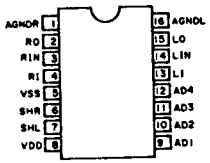


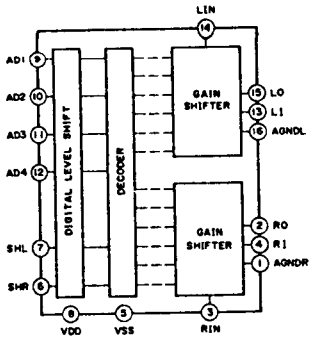


Pin No.	Pin Name	I/O	Function
1	VDD		Power Supply
2	VCOX	O	Clock Playback Circuit 4PCO
3	VCOI	I	
4	PCO	O	
5	VSS		GND
6	EFMX	O	EFM Signal External Circuit
7	$\overline{EFMX}$	O	
8	EFMI	I	
9	VSS		GND
10	SYEQ	O	Synchronized Uniform Signal
11	N.C.		Not Use
12	DM	O	Disc Servo { LOW (0V): FORWARD OPEN (2.5V): STOP HIGH (5V): REVERSE
13	FCS	O	Focus Servo System Input
14	$\overline{FZC}$	I	
15	FRF	I	
16	HF	I	Tracking Servo System Input
17	TER	I	
19	TROF	O	
20	TRGL	O	
21	TRHD	O	
22	KP	O	{ LOW (0V): REW OPEN (2.5V): STOP HIGH (5V): FF

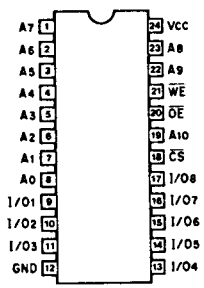
Pin No.	Pin Name	I/O	Function
23	CK		EFM Demodulated Signal Check Output (4.3218MHz, clock)
24	FEOF	O	Feed Servo System
25	FEM+	O	
26	FEM−	O	
23	CK	I/O	EFM Demodulated Signal Check Output (4.3218MHz clock)
27	DATA	I/O	
28	DSY	I/O	
29	SUB	O	Sub-code Output
30	VFSY	O	
31	RCK	I	
32	VDD		Power Supply
33	NC	I	Not Use
34	φ4		4.3218 MHz Clock
35	WQ	O	Q Code Output System: Data Output to μCOM; Data I/O Control Signal; Clock for Data I/O; Data I/O from μCOM — Q code Output / μCOM Command
37	DOUT	O	
36	R/W	I	
39	SCK	I	
38	DIN	I	
41	VSS		GND
40	A0	O	RAM Connections
42	A1	O	
43	A2	O	
44	A3	O	
45	A4	O	
46	A5	O	
47	A6	O	
48	A7	O	
49	A8	O	
50	A9	O	
51	$\overline{WE}$	O	
52	$\overline{OE}$	O	
53	A10	O	
54	D8	I O	
55	D7	I O	
56	D6	I O	
57	D5	I O	
58	D4	I O	
59	D3	I O	
60	D2	I O	
61	D1	I O	
62	DEP	O	Deemphasis Signal
63	DTFLG	O	Data Error Signal — Data Control Circuit Board Serial Signal Output
66	SDO	O	Digital Data Output; LSB first/MSB first
67	SDSY	O	
68	φ2	O	2.1659MHz Clock
69	L/M	I	SB first (H)/MSB first (L) Switch for SDO
71	$\overline{TESTC}$	I	Test Terminal
64	NC	O	Not Use — DAC Interface
65	SDSYMD	O	BB Word Clock for DAC
76	SAMPR	O	Digrich Signal
77	SAMPL	O	
34	φ4	O	4.3218MHz Clock
18	$\overline{TESTD}$	I	Test Terminal
70	$\overline{TESTB}$	I	
74	$\overline{TCL}$	I	
72	VDD		Power Supply
73	EFLG	O	C1, C2 Error Correction Check Signal
75	$\overline{XFSY}$	I/O	Synchronized Clock Signal
78	VSS		GND
79	XIN	I	Clock Oscillation
80	XOUT	O	

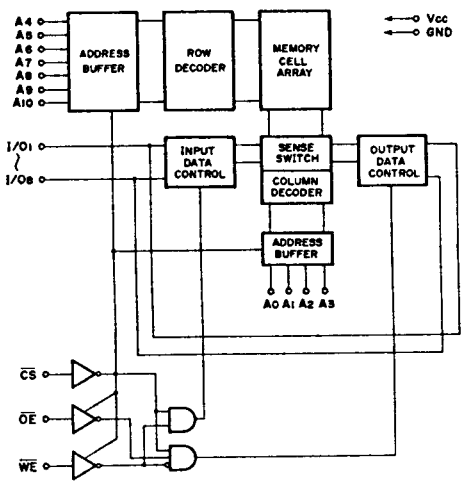
IC24: YM3023
Floating Sample Hold



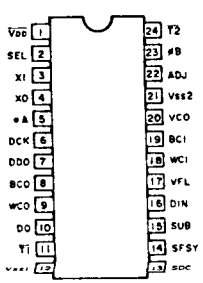


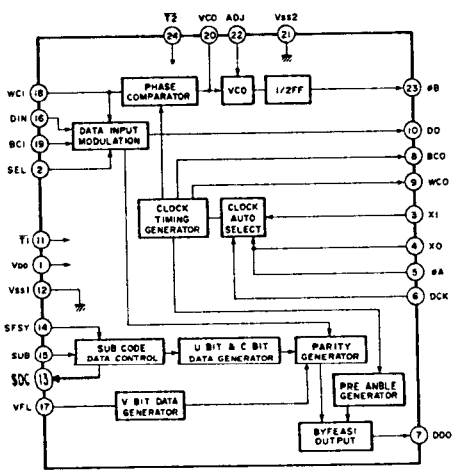
IC15: μPD4016-CX, LC3517A-15, TMM2015BP, TMM2016BP, CXK5816SP, CXK5816PS or CXK5816PN
2048-Word x 8 bit Static RAM



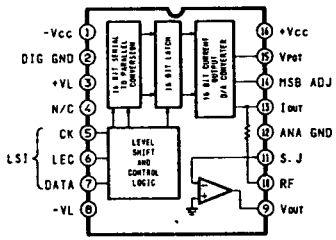


IC16: YM3613B
Digital Audio Interface Transmitter (DIT)

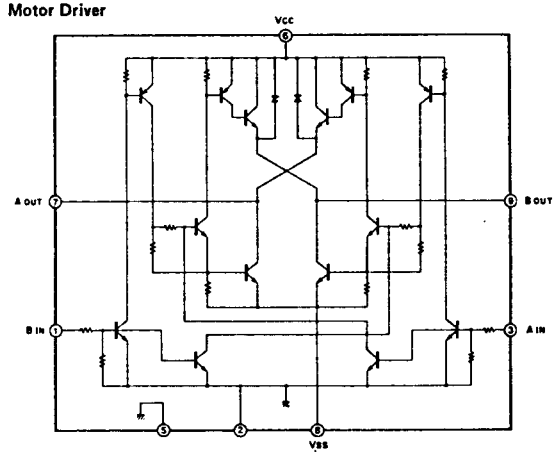




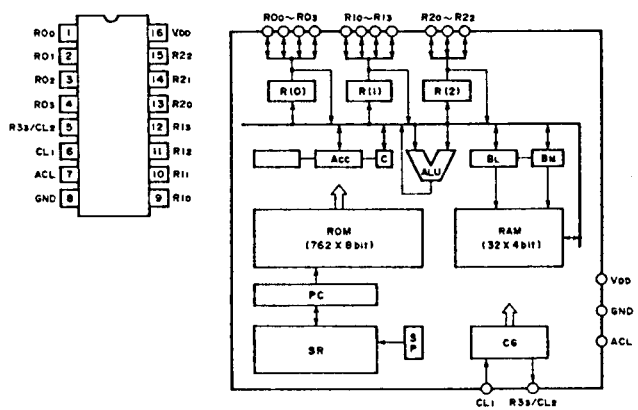
IC22, 23: PCM56J
D/A Converter



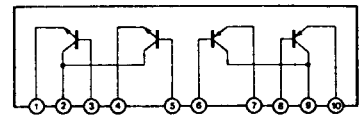
IC26: BA6218
Motor Driver



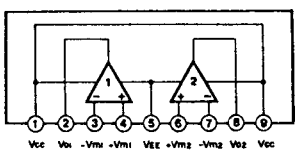
IC302: LU59521
4 bit μ-COM



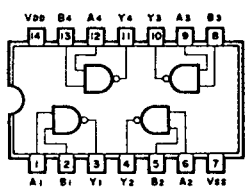
IC4: STA451C
Transistor Array



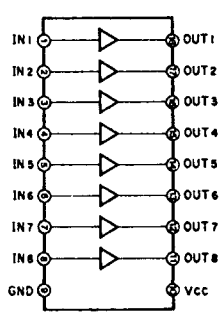
IC1, 8: NJM2043S
IC2, 3, 5 ~ 7: NJM4558S
IC9, 10: NJM2068S
IC11, 12: NJM2068S or μPC4570HA
IC13: NJM4556S
Dual Ope-amp



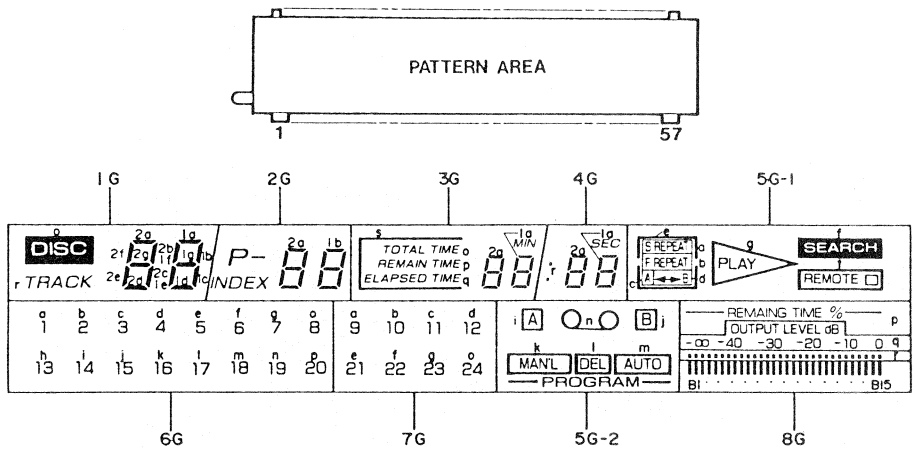
IC25: TC74HC00P
Quad 2-Input NAND Gate



IC303 ~ 305: M54564P
LED Driver



■DISPLAY DATA (V301:FV210G)



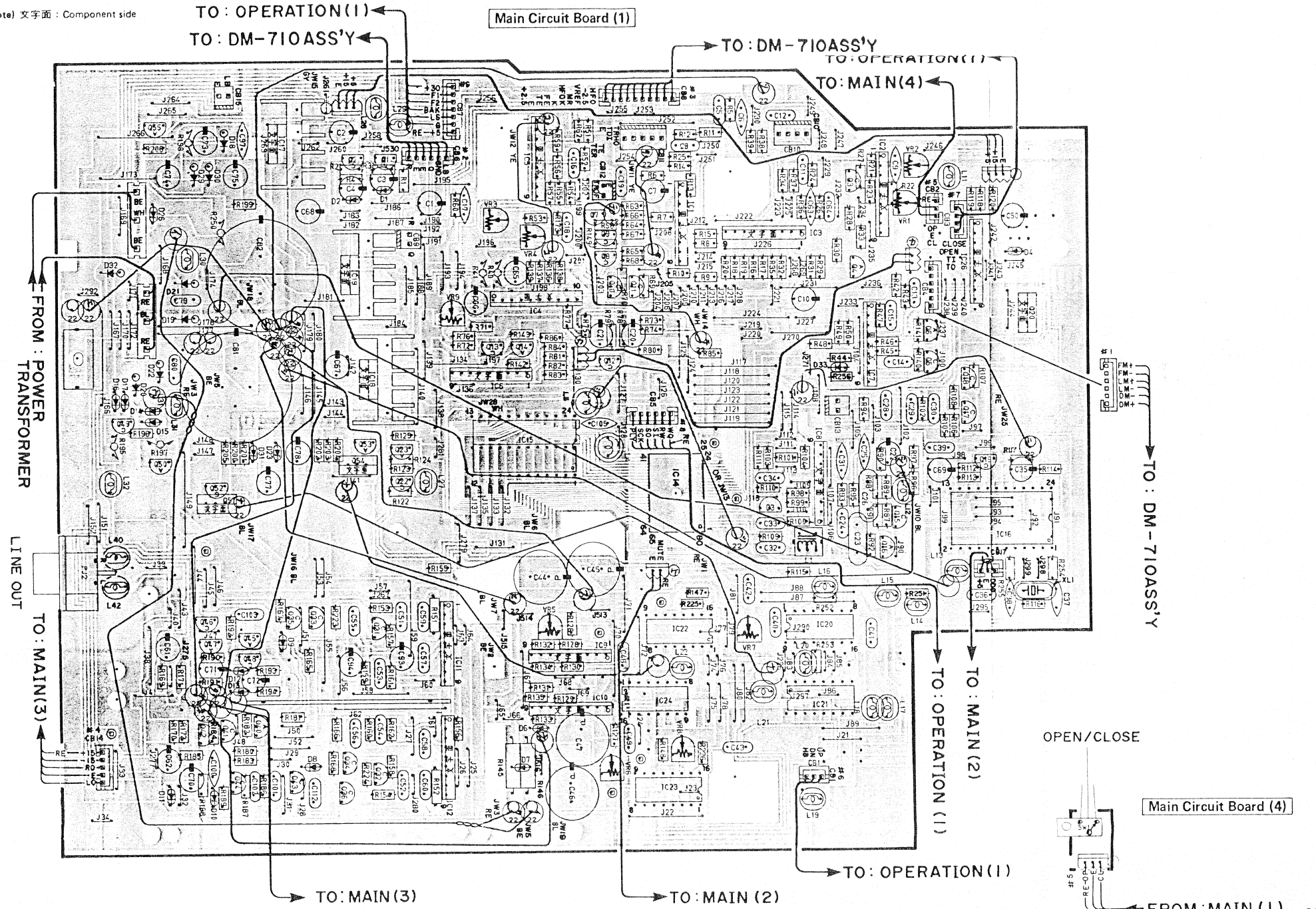
PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
CONNECTION	F	F	NP	7G	6G	NC	4G	3G	2G	1G	NP	NP	a	b	c	d	NP	e	f	g	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP

PIN NO.	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58
CONNECTION	h	NP	i	j	k	5G	ℓ	m	8G	n	NP	o	p	NP	q	r	s	t	NP	NP	NP	F	F

	8G	7G	6G	5G-2	5G-1	4G	3G	2G	1G
a	B7	9	1	–	S REPEAT	1a	1a	1a	1a
b	B6	10	2	–	F REPEAT	1b	1b	1b	1b
c	B3	11	3	–	A	1c	1c	1c	1c
d	B1	12	4	–	↔ B	1d	1d	1d	1d
e	B2	21	5	–	[ ]	1e	1e	1e	1e
f	B5	22	6	–	SEARCH	1f	1f	1f	1f
g	B4	23	7	–	PLAY	1g	1g	1g	1g
h	B15	–	13	–	[ ]	2a	2a	2a	2a
i	B14	–	14	A	–	2b	2b	2b	2b
j	B11	–	15	B	–	2c	2c	2c	2c
k	B9	–	16	MAN'L	–	2d	2d	2d	2d
l	B10	–	17	DEL	–	2e	2e	2e	2e
m	B13	–	18	AUTO	–	2f	2f	2f	2f
n	B12	–	19	○ ○	–	2g	2g	2g	2g
o	B8	24	8	–	–	–	TOTAL TIME	P –	DISC
p	p	–	20	–	–	–	REMAIN TIME	INDEX	–
q	q	–	–	–	–	–	ELAPSED TIME	–	–
r	r	–	–	–	–	SEC	MIN	–	TRACK
s	–	–	–	–	–	–	[ ]	–	–
t	–	–	–	–	REMOTE	–	–	–	–

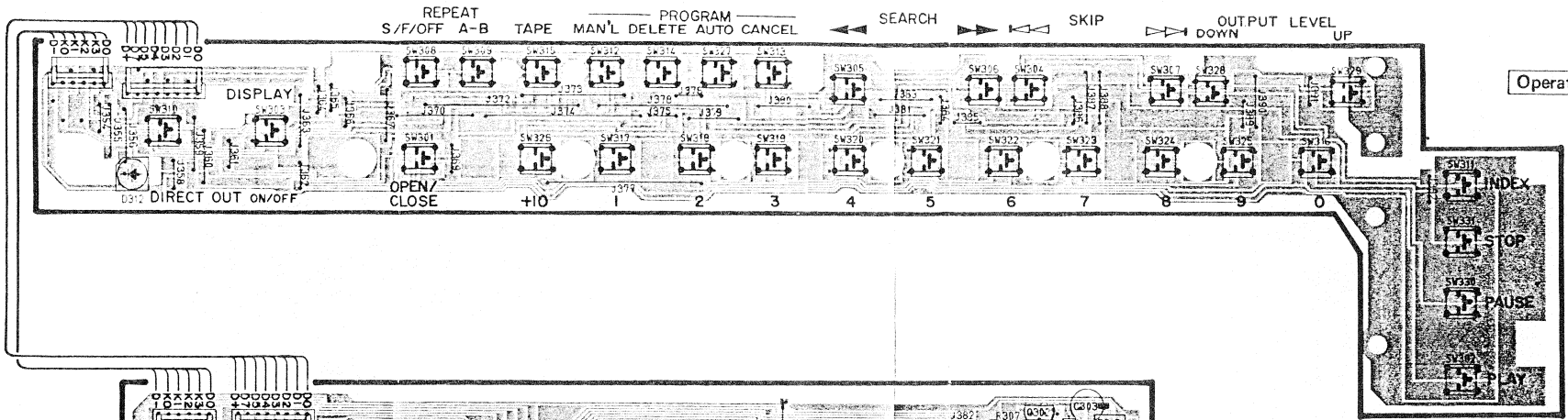
■ PRINTED CIRCUIT BOARD (Pattern side)

Note) 文字面 : Component side

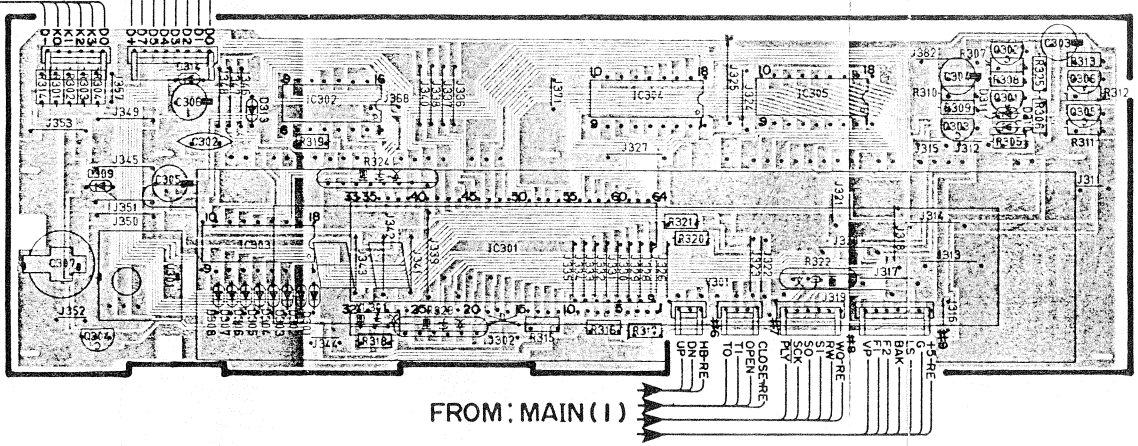


PRINTED CIRCUIT BOARD(Pattern side)

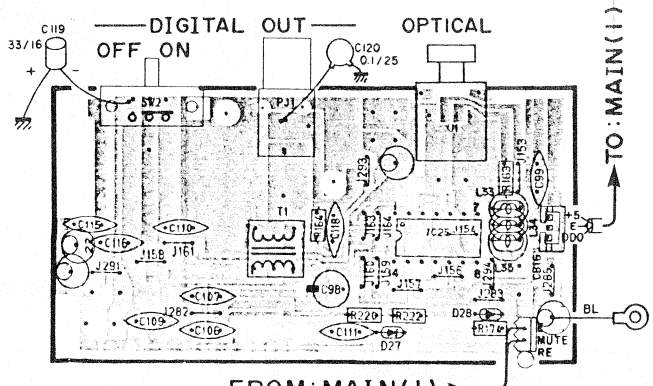
Note) 文字面 : Component side



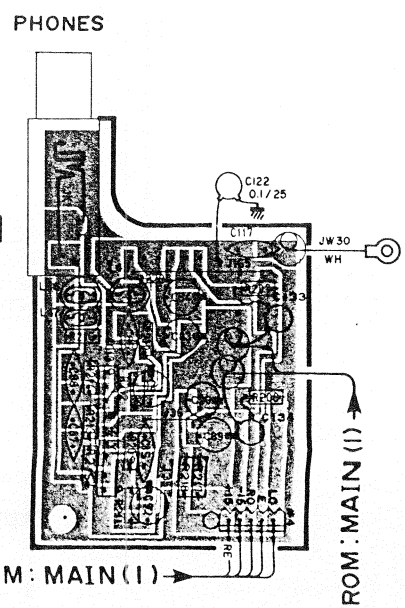
Operation Circuit Board (2)



Operation Circuit Board (1)



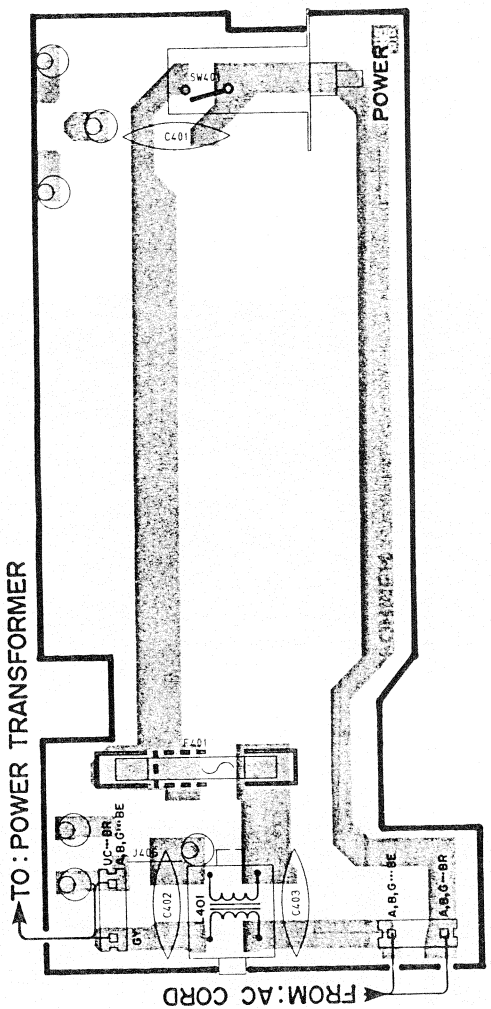
Main Circuit Board (2)



Main Circuit Board (3)

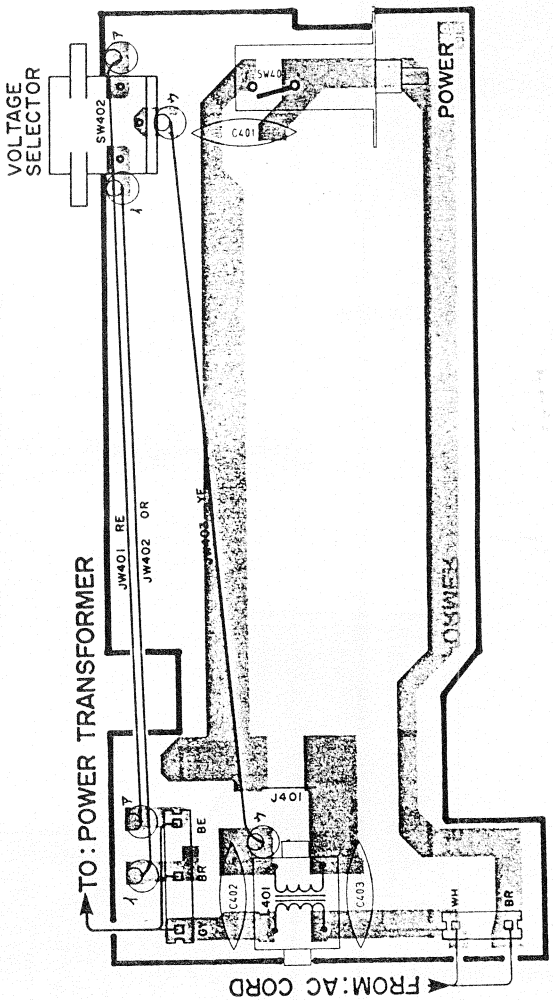
PRINTED CIRCUIT BOARD(Pattern side)

Power Circuit Board ..... U, C, A, B, G models

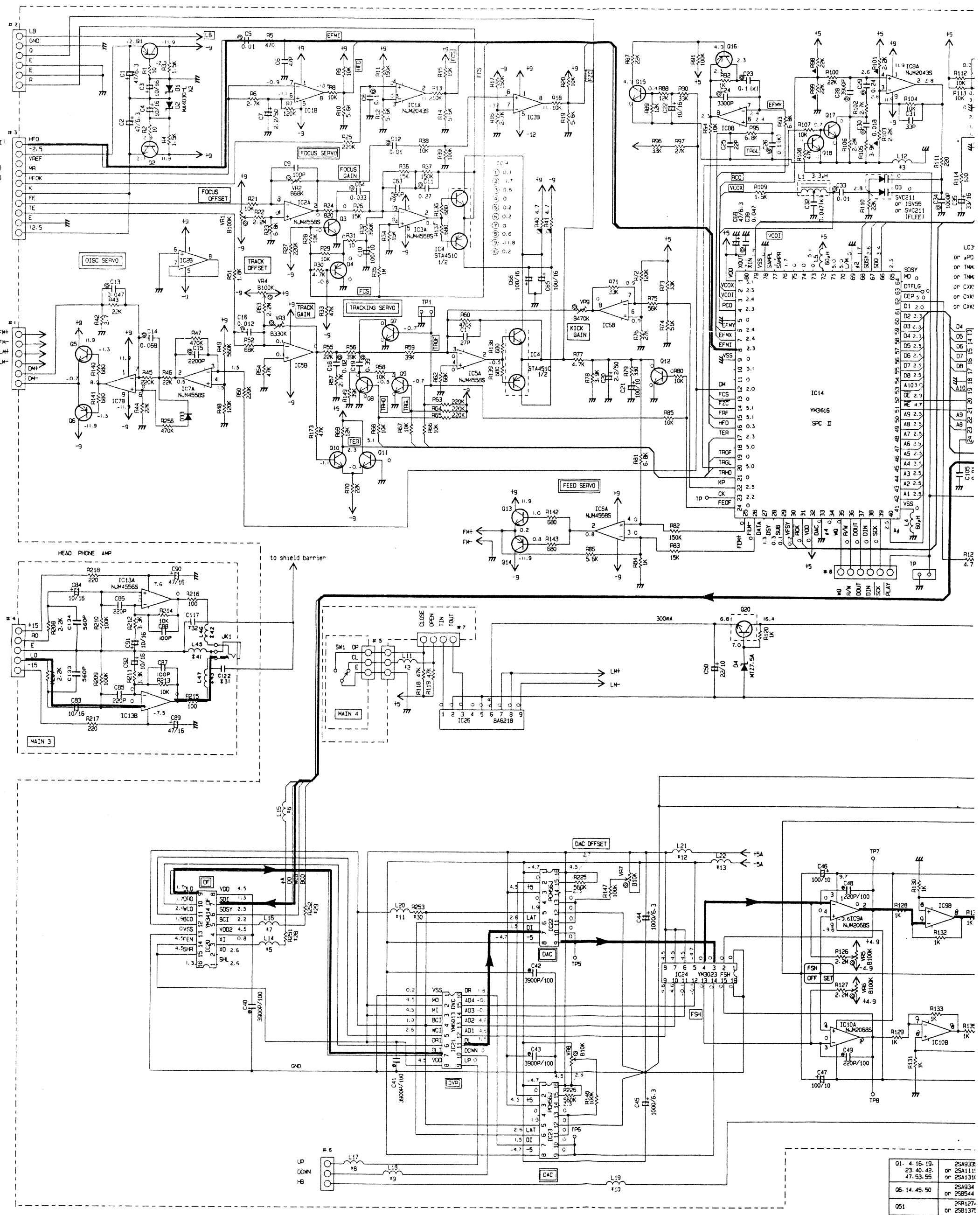


PRINTED CIRCUIT BOARD(Pattern side)

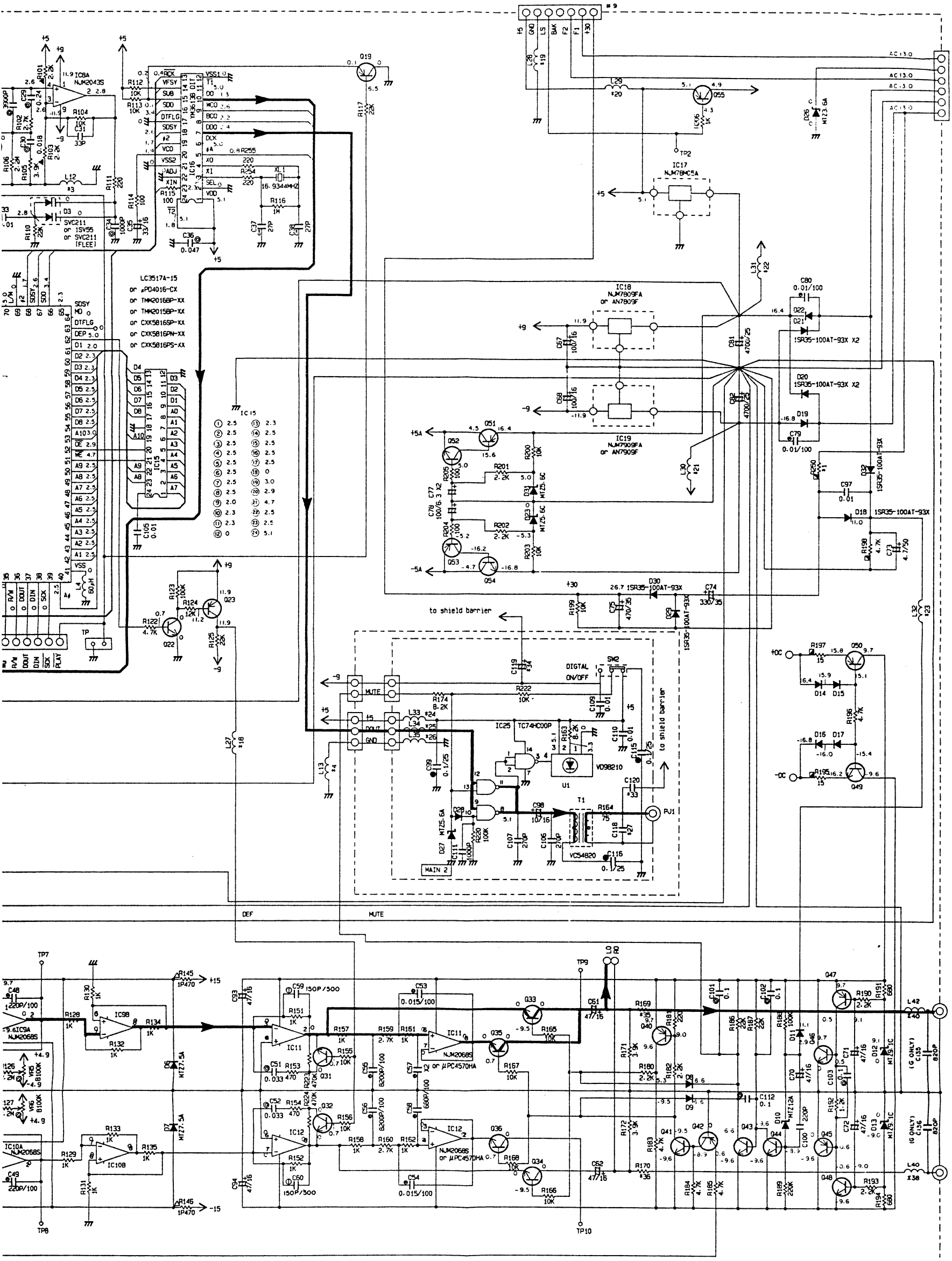
Power Circuit Board ..... R model



■SCHEMATIC DIAGRAM 2/2



F G H I J K



*印は下表参照

*	J	U·C·R·A·B·G
1 R250	SHORT	2.2
2 L11	SHORT	60μH
3 L12	SHORT	60μH
4 L13	SHORT	60μH
5 L14	SHORT	60μH
6 L15	SHORT	60μH
7 L16	SHORT	40μH
8 L17	SHORT	60μH
9 L18	SHORT	60μH
10 L19	SHORT	60μH
11 L20	SHORT	40μH
12 L21	SHORT	60μH
13 L22	SHORT	60μH
18 L27	SHORT	60μH
19 L28	SHORT	60μH
20 L29	SHORT	60μH
21 L30	SHORT	60μH
22 L31	SHORT	60μH
23 L32	SHORT	60μH
24 L33	SHORT	60μH
25 L34	SHORT	60μH
26 L35	SHORT	60μH
27 C118	OPEN	470P
28 R251	SHORT	220
29 R252	SHORT	220
30 R253	SHORT	220
31 C122	OPEN	0.1/25
32 C117	OPEN	0.1/25
33 C120	OPEN	0.1/25
34 C119	OPEN	33/16
35 R169	47	2.2K
36 R170	47	2.2K
38 L40	SHORT	60μH
40 L42	SHORT	60μH
41 L45	SHORT	60μH
42 L46	SHORT	60μH
43 L47	SHORT	60μH

01. 4. 16. 19. 23. 40. 42. 47. 53. 55	2SA933S(Q.R) or 2SA1115(E.F) or 2SA1310(R.S.T)
06. 14. 45. 50	2SA934 or 2SB544
051	2SR1274(Q.R.S) or 2SB1375
02. 10-12. 15. 17-19 22. 41. 48. 52.	2SC1740S(S.R) or 2SC2603(E.F) or 2SC3312(R.S.T)
05. 13. 46. 49	2SC2060 or 2SD400
054	2SD1913(R.S) or 2SD2012
03. 7-9. 31. 32. 43. 44.	2SC3327 or 2SD1915 or 2SC2878(A.B)
020.	2SC1983 or 2SD1985(P.Q)
033-36	2SD1951(T)

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR
▨	CARBON FILM RESISTOR (1/6W)
△	METAL OXIDE FILM RESISTOR
▲	METEL FILM RESISTOR
⊠	METEL PLATE RESISTOR
◪	FIRE PROOF CARBON FILM RESISTOR
□	SEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR

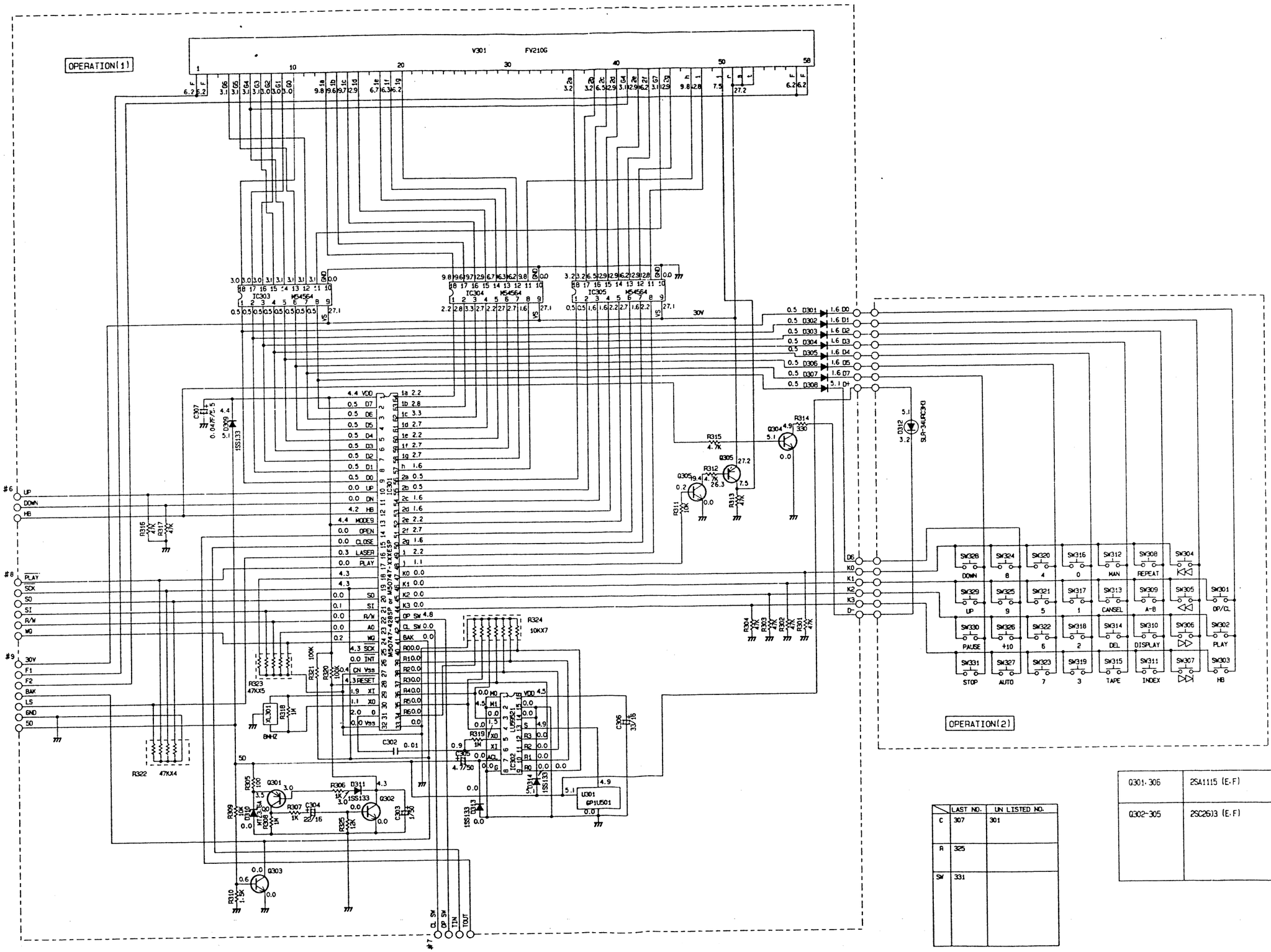
CAPACITOR

REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	⫼
NO MARK	CERAMIC CAPACITOR	⫪
◎	POLYESTEL FILM CAPACITOR	
○	POLYSTYRENE FILM CAPACITOR	
Ⓘ	MICA CAPACITOR	
Ⓟ	POLYPROPYLENE FILM CAPACITOR	
ⓢ	SEMICONDUCTIVE CERAMIC CAPACITOR	

NOTICE
(U)····· U.S.A model
(C)····· Canadian model
(A)····· Australian model
(G)····· European model
(B)····· British model
(R)····· General model

All voltages are measured with a 10MΩ/DC electric volt meter.
Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.
Schematic diagram is subject to change without notice.

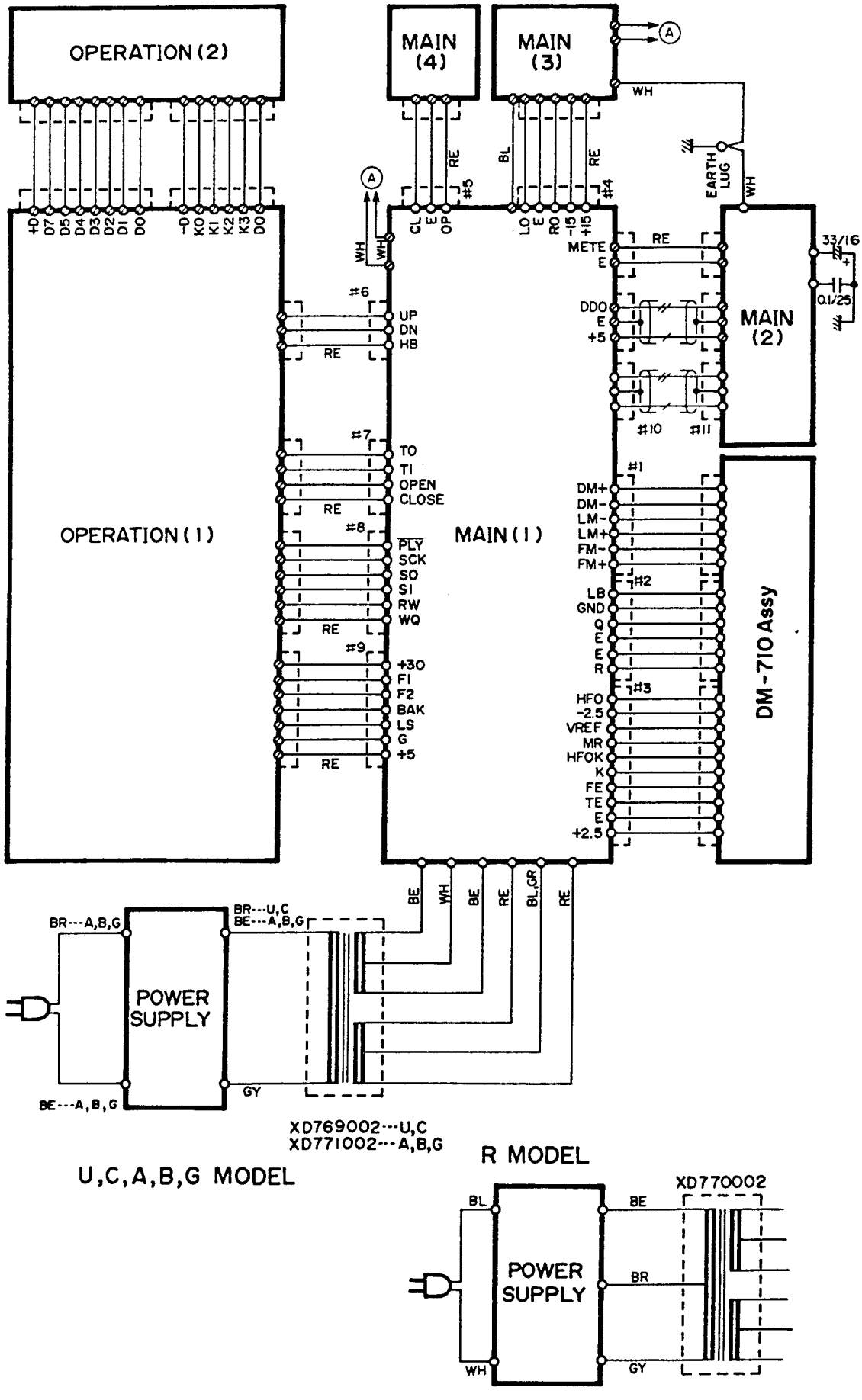
■SCHEMATIC DIAGRAM 1/2



	LAST NO.	UN LISTED NO.
C	307	301
R	325	
SW	331	

Q301-306	2SA1115 (E,F)
Q302-305	2SC2603 (E,F)

■ WIRING


OPERATION (2)
MAIN (4)
MAIN (3)
OPERATION (1)
MAIN (1)
MAIN (2)
DM-710 Assy
POWER SUPPLY
XD769002---U,C
XD771002---A,B,G
U,C,A,B,G MODEL
R MODEL
XD770002

PARTS LIST

■ELECTRICAL PARTS

■WARNING

Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.

• Carbon resistors (1/6W or 1/4W) are not included in the ELECTRICAL PARTS list. For the parts No. of the carbon resistor, refer to P.48

	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
*		***NA 09 64 70***	***Operation Circuit Board***		オペレーションシート	Silver, Black			
*		***NA 09 76 40***	〃		〃	Titan			
		FG 24 41 00	Ceramic Cap.	0.01μF 50V	セラコン	C302			
*		VE 63 28 00	Electrolytic Cap.	0.047 F 5.5V	スーパーキャパシタ	C307			
		UM 39 72 20	〃	22μF 16V	ケミコン	C304			
		UM 39 73 30	〃	33μF 16V	〃	C306			
		UM 21 61 00	〃	1μF 50V	〃	C303			
		UM 07 64 70	〃	4.7μF 50V	〃	C305			
*		VE 47 83 00	Resistor Array	47kΩ×4	抵抗アレイ	R322			
		VE 35 56 00	〃	47kΩ×5	〃	R323			
		HZ 00 45 40	〃	10kΩ×7	〃	R324			
		iA 11 15 10	Transistor	2SA1115(E,F)	トランジスタ	Q301,306			
		iC 26 03 10	〃	2SC2603(E,F)	〃	Q302～305			
		iF 00 34 50	Diode	1SS133	ダイオード	D301～309,311,313,314			
		iF 00 87 30	LED (Red)	SLR-34URC3H3	LED	D312			
		iF 00 88 00	Zener Diode	MTZ3.6A	ツェナーダイオード	D310			
		XC 25 00 01	IC	M54564P	IC	IC303～305			
		XD 49 00 01	〃	LU59521	〃	IC302			
*		XD 55 50 01	〃	M50747-428SP	〃	IC301			
*		VE 23 14 00	Display Unit		蛍光表示管	V301			
		VE 22 24 00	Ceramic Resonator	8MHz	セラミック発振子	XL301			
		KA 90 63 80	Switch	EVQ-QRB-04M	ライトタッチスイッチ	SW301～331			
		VD 85 31 00	Reseiver Unit	GP1U501	受光ユニット	U301			
*		VE 31 18 00	Support, FL		サポートFL				
*		VE 31 19 00	Sheet, Filter		シートフィルター	Titan		J	
*		VE 85 88 00	〃		〃	Silver,Black			
*		***NA 09 65 10***	***Power Circuit Board***		電源シート		CDX-810	R	
*		***NA 09 71 00***	〃		〃			J	
*		***NA 09 71 10***	〃		〃			A,B,G	
*		***NA 09 80 50***	〃		〃			U,C	
		VE 17 92 00	Ceramic Cap	0.01μF 400V	セラコン	C401～403			⚠
		VA 77 84 00	Line Filter	1.5mH	ラインフィルター	L401			⚠
		LA 00 58 10	Voltage Selector		電圧切換器	SW402		R	⚠
		VC 09 79 00	Push Switch	TV-3	プッシュスイッチ	SW401			⚠
		KB 00 02 20	Fuse	T1.5A 125V	ヒューズ	F401		J	⚠
		KB 00 06 70	〃	T630mA 250V	〃	〃		A,B,G	⚠
		KB 00 20 10	〃	1.5A 125V	〃	〃		U,C	⚠
		LA 00 21 40	Lapping Terminal	P=10 2P I=Type	1空ラッピング端子板				
		LA 00 21 50	〃	P=10 3P I=Type	〃			R	
		LB 20 18 80	Fuse Holder Pin		ヒューズホルダーピン			J,U,C,A,B,G	

*New Parts (新規部品) NR

	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
*		***NA 09 64 80***	***Main Circuit Board***		メインシート	Black		J	
*		***NA 09 64 90***	〃		〃	〃		U,C,R,A,B	
*		***NA 09 65 00***	〃		〃			G	
*		***NA 09 68 80***	〃		〃	Silver		U,C,R,A,B	
*		***NA 09 68 90***	〃		〃	〃		G	
*		***NA 09 69 30***	〃		〃	Titan		J	
		FA 15 31 00	Mylar Cap.	1000pF 50V	マイラーコン	C34			
		FA 15 32 20	〃	2200pF 50V	〃	C15			
		FA 15 33 30	〃	3300pF 50V	〃	C24			
		FA 15 33 90	〃	3900pF 50V	〃	C28			
		FA 15 41 00	〃	0.01μF 50V	〃	C5,12,33			
		FA 15 41 20	〃	0.012μF 50V	〃	C16			
		FA 15 41 80	〃	0.018μF 50V	〃	C30			
		FA 15 43 30	〃	0.033μF 50V	〃	C51,52,64			
		FA 15 44 70	〃	0.047μF 50V	〃	C13,36,39			
		FA 15 46 80	〃	0.068μF 50V	〃	C14			
		FA 15 51 00	〃	0.1μF 50V	〃	C8,101～103,112			
		FA 15 53 90	〃	0.39μF 50V	〃	C19			
		FA 15 52 70	〃	0.27μF 50V	〃	C11			
		FA 15 52 40	〃	0.24μF 50V	〃	C29			
		FA 15 58 20	〃	0.82μF 50V	〃	C18			
		FC 36 51 00	〃	0.1μF 50V	銅リードマイラーコン	C23,26			
		FZ 00 55 80	〃	0.047μF 50V	〃	C32			
		FU 35 21 50	Mica Cap.	150pF 500V	マイカコン	C59,60			
		FZ 00 41 30	Semiconductive Ceramic Cap.	0.1μF 25V	半導体セラコン	C99,115,116			
		FZ 00 41 30	〃	0.1μF 25V	〃	C117		U,C,R,A,B,G	
		FG 21 12 70	Ceramic Cap.	27pF 50V(CH)	セラコン	C17,37,38			
		FG 21 12 20	〃	22pF 50V	〃	C25			
		FG 21 13 30	〃	33pF 50V	〃	C31			
		FG 21 14 70	〃	47pF 50V	〃	C6			
		FG 21 21 00	〃	100pF 50V	〃	C9,87,88			
		FG 21 22 20	〃	220pF 50V	〃	C85,86,100			
		FG 21 24 70	〃	470pF 50V	〃	C118		U,C,R,A,B,G	
		FG 21 25 60	〃	560pF 50V	〃	C63,133,134		U,C,R,A,B,G	
		FG 21 28 20	〃	820pF 50V	〃	C135,136		G	
		FG 21 31 00	〃	1000pF 50V	〃	C111			
		FG 21 22 70	〃	270pF 50V	〃	C106,107			
		FG 24 41 00	〃	0.01μF 50V	〃	C97,105,109,110			
		UJ 11 74 70	Electrolytic Cap.	47μF 6.3V	ケミコン	C1,2,69			
		UJ 13 72 20	〃	22μF 10V	〃	C50			
		UJ 12 81 00	〃	100μF 10V	〃	C10,21			
		UJ 13 71 00	〃	10μF 16V	〃	C3,4,22,83,84,91,92,98			
		UJ 13 73 30	〃	33μF 16V	〃	C35			
		UJ 13 74 70	〃	47μF 16V	〃	C70,89,90,93,94			
		UJ 13 81 00	〃	100μF 16V	〃	C65～68			
		UJ 16 62 20	〃	2.2μF 50V	〃	C7,20			
		UJ 16 64 70	〃	4.7μF 50V	〃	C73			
*		VE 70 88 00	〃	47μF 16V	ケミコンDUOREX	C61,62,71,72			
		UJ 45 83 30	〃	330μF 35V	ケミコン	C74			
		UJ 15 84 70	〃	470μF 35V	〃	C75			
		UJ 11 91 00	〃	1000μF 6.3V	〃	C44,45			
		UJ 12 91 00	〃	1000μF 10V	〃	C46,47			
*		VE 75 93 00	〃	4700μF 25V	ブロックケミコン	C81,82			
		FZ 00 54 10	〃	100μF 6.3V	ブラックゲートコン	C77,78			
		UT 65 38 20	Polypropylene Film Cap.	8200pF 100V	ポリプロコン	C55,56			
*		UT 45 41 50	〃	0.015μF 100V	〃	C53,54			

*New Parts (新規部品) NR

Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
	UT 45 22 20	Polypropylene Film Cap.	220pF 100V	ポリプロコン	C48,49			
	UT 45 26 80	//	680pF 100V	//	C57,58			
	UT 45 33 90	//	3900pF 100V	//	C40~43			
	UT 45 41 00	//	0.01μF 100V	//	C79,80			
	VC 54 82 00	Pulse Trans		パルストランス	T1			
	GE 90 20 00	OSC Coil	3.3μH	発振コイル	L1			
*	VD 47 37 00	Micro Inductor	60μH	マイクロインダクター	L4,5			
*	VB 81 79 00	//	40μH	//	L16,20		U,C,R,A,B,G	
*	VD 47 37 00	//	60μH	//	L11~15,17~19,21,22,27~35,40,42,45~47		U,C,R,A,B,G	
	HL 31 54 70	Metal Oxide Film Resistor	470Ω 1W	酸金抵抗	R145,146			
	HV 45 41 50	Flame Proof Carbon Resistor	15Ω 1/4W	不燃化カーボン抵抗	R195,197			
	HV 45 34 70	//	4.7Ω 1/4W	//	R40,41			
	HV 45 64 70	//	4.7kΩ 1/4W	//	R198			
	HV 45 32 20	//	2.2Ω 1/4W	//	R250		U,C,R,A,B,G	
	HJ 35 61 00	Carbon Resistor	1kΩ 1/4W	カーボン抵抗	R151,152			
*	VF 45 91 00	Metal Film Resistor	2.2kΩ 1/6W	金属被膜抵抗	R101,103			
*	VF 45 92 00	//	22kΩ 1/6W	//	R98,99			
	VB 86 15 00	Pre-Set Potentiometer	B10KΩ	半固定抵抗	VR7,8			
	VB 86 19 00	//	B100KΩ	//	VR1,4~6			
	VB 86 22 00	//	B470KΩ	//	VR9			
	VB 86 21 00	//	B330KΩ	//	VR3			
	VC 61 25 00	//	B68KΩ	//	VR2			
	iA 09 33 70	Transistor	2SA933S(Q,R)	トランジスタ	Q1,4,16,23,40,42,47,53,55	Inter-changeable		
	iA 11 15 10	//	2SA1115(E,F)	//	//			
	iX 60 31 70	//	2SA1310(R,S,T)	//	//			
	iA 09 34 00	//	2SA934	//	Q6,14,45,50	Inter-changeable		
	iB 05 44 10	//	2SB544	//	//			
	VC 61 40 00	//	2SB1274(Q,R,S)	//	Q51			
	iC 17 40 70	//	2SC1740S(S,R)	//	Q2,10~12,15,17~19,22,41,48,52	Inter-changeable		
	iC 26 03 10	//	2SC2603(E,F)	//	//			
	iX 60 31 80	//	2SC3312(R,S,T)	//	//			
	iC 20 60 00	//	2SC2060	//	Q5,13,46,49	Inter-changeable		
	iD 04 00 00	//	2SD400	//	//			
	VC 40 79 00	//	2SD1913(R,S)	//	Q54			
	iX 60 42 00	//	2SC2878(A,B)	//	Q3,7~9,31,32,43,44	Inter-changeable		
	iC 33 27 00	//	2SC3327	//	//			
	VC 50 21 00	//	2SD1915	//	//			
	iC 19 83 00	//	2SC1983	//	Q20			
*	VF 83 51 00	//	2SD1915(T)	//	Q33~36			
	iF 00 34 50	Diode	1SS133	ダイオード	D8,9,11,14~17,28,33			
	iF 00 84 80	//	1SR35-100AT	//	D18~22,29,30,32			
	iF 00 88 50	Zener Diode	MTZ12A	ツェナーダイオード	D10			
	iF 01 07 90	//	MTZ7.5A	//	D4,6,7			
	iF 01 08 70	//	MTZ9.1C	//	D12,13			
	iF 01 07 80	//	MTZ5.6C	//	D23,31			
*	VE 50 71 00	//	MA4030-L	//	D1,2			
	iF 00 88 00	//	MTZ3.6A	//	D26			
	iF 00 49 10	Varactor Diode	1SV55	FMバラクタダイオード	D3	Inter-changeable		
	iF 00 49 20	//	SVC211	//	//			

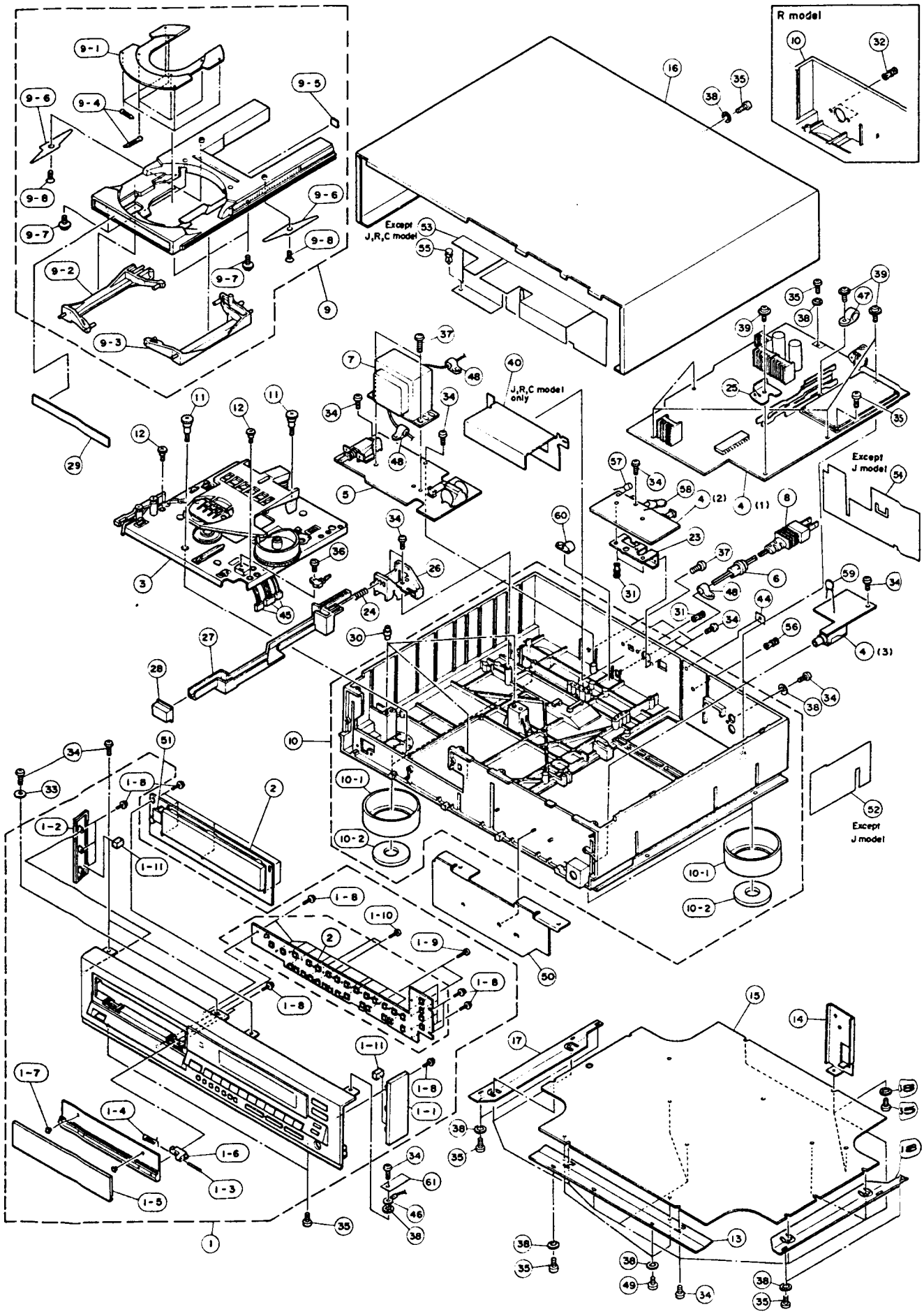
*New Parts (新規部品) NR

Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
	XB 69 80 01	IC	YM3616	I C	IC14			
	XC 85 30 01	//	YM3613B	//	IC16			
	XB 70 30 01	//	YM3023	//	IC24			
	XD 71 10 01	//	YM6013	//	IC21			
	XD 71 20 01	//	YM3414	//	IC20			
	XD 70 60 01	//	NJM7809FA	//	IC18			
	iG 07 68 00	//	NJM4558S	//	IC2,3,5~7			
	iG 07 74 00	//	NJM4556S	//	IC13			
	iG 08 02 00	//	NJM2043S	//	IC1,8			
	iG 11 94 00	//	STA451C	//	IC4			
	iG 15 35 00	//	BA6218	//	IC26			
	iG 07 56 00	//	NJM78M05A	//	IC17			
	XD 70 70 01	//	NJM7909FA	//	IC19			
	iR 00 00 00	//	TC74HC00P	//	IC25			
*	XD 89 70 01	//	PCM56P-J	//	IC22,23			
	iG 11 92 00	//	μPD4016-CX	//	IC15			
	XA 95 60 01	//	NJM2068S	//	IC9~12			
	VC 39 88 00	Crystal Resonator	16.9344MHz	水晶振動子	XL1			
*	VD 98 21 00	Optical Module	TOTX172	光伝送モジュール	U1			
	LB 30 24 20	Phone Jack	Gray	ホーンジャック	JK1 Silver		U,C,R,A,B,G	
	LB 30 24 30	//	Black	//	// Black			
	VA 31 63 00	//		//	// Titan		J	
	LB 20 26 10	Pin Jack	2P	ピンジャック	PJ2		J	
*	VF 09 65 00	//	2P	//	//		U,C,R,A,B,G	
	VD 76 02 00	//	1P	//	PJ1			
	KA 90 63 70	Switch	MSW-1485	エンドスイッチ	SW1			
	KA 40 14 30	Slide Switch		スライドスイッチ	SW2			
	LB 20 13 90	Base Pin	TEB2P-SHF	2.5ピッチベースピン	CB9,12,13,15			
	LB 40 05 70	//	TEB4P-SHF	//	CB10			
	LB 50 02 50	//	TEB5P-SHF	//	CB11			
	VD 00 46 00	//	3P i-Type	PHベースピン	CB1,2,16,17			
	VD 00 47 00	//	4P i-Type	//	CB3			
	VD 00 49 00	//	6P i-Type	//	CB4~6			
	VD 00 50 00	//	7P i-Type	//	CB7			
	VD 00 53 00	//	10P i-Type	//	CB8			
	VD 00 48 00	//	5P i-Type	//	CB14			
	LA 00 23 20	Lapping Terminal	P=7.5 3P i-Type	i型ラッピング端子板				
	LA 00 25 70	//	P=7.5 3P i-Type	//				
	LA 00 41 20	Test Point Pin	1P	テストポイントピン				
	BB 06 95 10	Ground Plate		ランド金具				
	BB 07 04 10	Bus Bar	55mm	バスバー				
*	VE 19 16 00	Sheild Case		シールドケース				
*	VE 19 18 00	Support		サポート				
	BA 09 29 70	Heat Sinck		放熱板				
	CB 06 88 80	Plastic Rivet		プラスチックリベット				
	E1 33 01 06	Binding Head Tapping Screw	3×10 ZMC2-BI	バインドタッピングネジ	PACK			
	ED 33 00 86	Binding Head Screw	3×8 FCRM3-BI	バインド小ネジ	PACK			
	VD 78 28 00	Ferrite Core	ESD-R-16	フェライトコア				
*	VF 37 64 00	//	ESDR19D	//				

*New Parts (新規部品) NR

CDX-910/U

■ EXPLODED VIEW



■MECHANISM PARTS Note) φ : Diameter

	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク	
*	1	VE 56 09 00	Front Panel Ass'y		フロントパネル Ass'y	Black		R,A,B,G		
*	〃	VE 56 07 00	〃		〃	〃		U,C		
*	〃	VE 56 10 00	〃		〃	Silver		R,A,B,G		
*	〃	VE 56 08 00	〃		〃	〃		U,C		
*	〃	VE 56 06 00	〃		〃	Titan		J		
*	〃	VE 56 04 00			〃	Black		J		
*	1-1	VE 02 46 00	Panel, Side L		パネルサイドL	Black				
*	〃	VE 31 07 00	〃		〃	Silver		U,C,R,A,B,G		
*	〃	VE 43 39 00	〃		〃	Titan		J		
*	1-2	VE 22 71 00	Panel, Side R		パネルサイドR	Black				
*	〃	VE 31 08 00	〃		〃	Silver		U,C,R,A,B,G		
*	〃	VE 43 41 00	〃		〃	Titan		J		
*	1-3	VC 50 52 00	Shaft, Lid		シャフト／リッド					
	1-4	VE 02 60 00	Spring, Lid		スプリング／リッド					
*	1-5	NX 60 12 00	Lid Ass'y		リッド Ass'y	Black				
*	〃	NX 60 12 10	〃		〃	Silver				
*	〃	NX 60 12 20	〃		〃	Titan		J		
*	1-6	VE 02 57 00	Fulcrum, Lid		リッド支点					
*	1-7	VE 02 58 00	Cushion, Lid		クッションリッド					
	1-8	EX 60 08 40	BW Head Tapping Screw	2×6(φ5.5)FCRM3-BI	BWヘッドタッピングネジ					
	1-9	Ei 02 00 66	Binding Head Tapping Screw	2×6 ZMC2-Y	バインドタッピングネジ	PACK				
	1-10	EJ 02 00 66	Pan Head Tapping Screw	2×6 ZMC2-Y	ナベタッピングネジ	PACK				
*	1-11	VE 97 64 00	Damper		ダンパ／サイド					
*	2	NA 09 64 70	Operation Circuit Board		オペレーションシート	Silver, Black				
*	〃	NA 09 76 40	〃		〃	Titan		J		
*	3	VE 30 59 00	Disc Mechanism Unit	DM-710	DMユニット					
*	4	NA 09 64 80	Main Circuit Board		メインシート	Black		J		
*	〃	NA 09 64 90	〃		〃	〃		U,C,R,A,B		
*	〃	NA 09 65 00	〃		〃	〃		G		
*	〃	NA 09 68 80	〃		〃	Silver		U,C,R,A,B		
*	〃	NA 09 68 90	〃		〃	〃		G		
*	〃	NA 09 69 30	〃		〃	Titan		J		
*	5	NA 09 65 10	Power Circuit Board		電源シート			R		
*	〃	NA 09 71 00	〃		〃			J		
*	〃	NA 09 71 10	〃		〃			A,B,G		
*	〃	NA 09 80 50	〃		〃			U,C		
	6	CB 62 01 90	Cord Stopper	CM-22B	コードストッパー			R,A,B,G		
	〃	CB 62 02 00	〃	CM-22C	〃			J,U,C		
*	7	XD 76 80 02	Power Transformer		電源トランス			J		△
*	〃	XD 76 90 02	〃		〃			U,C		△
*	〃	XD 77 00 02	〃		〃			R		△
*	〃	XD 77 10 02	〃		〃			A,B,G		△
	8	MG 00 12 10	Power Cord	15A	電源コード			J		△
	〃	MG 00 22 20	〃	10A 125V	〃			U,C		△
	〃	MG 00 16 30	〃	6A 250V	〃			R		△
	〃	MG 00 23 10	〃	7.5A 250V	〃			A		△
	〃	MG 00 23 30	〃	300/300V	〃			B		△
	〃	MG 00 23 20	〃	2.5A 250V	〃			G		△
*	9	VE 26 97 00	Tray Ass'y		トレイ Ass'y	Black				
*	〃	VE 30 61 00	〃		〃	Silver		U,C,R,A,B,G		
*	〃	VE 45 37 00	〃		〃	Titan		J		
*	9-1	VE 04 12 00	Tray, Disc		トレイ／ディスク	Black				
*	〃	VE 30 63 00	〃		〃	Silver		U,C,R,A,B,G		

*New Parts (新規部品) NR

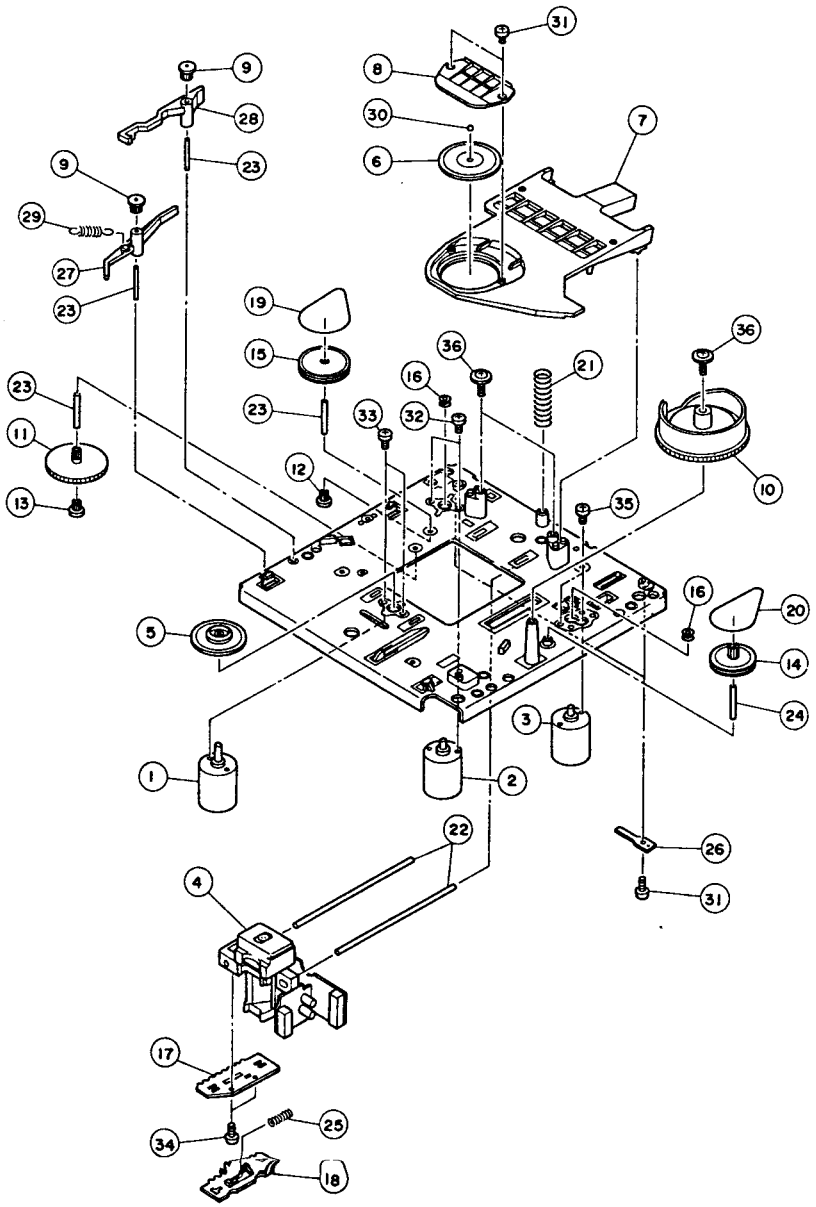
	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
*	9-1	VE 45 34 00	Tray, Disc		トレイ／ディスク	Titan		J	
*	9-2	VE 26 98 00	Lifter Ass'y(L)		リフタ Ass'y (L)	Black			
*	〃	VE 65 86 00	〃		〃	Silver		U,C,R,A,B,G	
*	〃	VE 65 87 00	〃		〃	Titan		J	
*	9-3	VE 26 99 00	Lifter Ass'y(R)		リフタ Ass'y (R)	Black			
*	〃	VE 65 88 00	〃		〃	Silver		U,C,R,A,B,G	
*	〃	VE 65 89 00	〃		〃	Titan		J	
*	9-4	VE 04 16 00	Pad,Disc		パッド／ディスク				
*	9-5	CB 62 79 60	Cushion Rubber		クッションゴム				
*	9-6	VE 04 18 00	Spring		スプリング				
	9-7	EX 60 02 40	BW Head Tapping Screw	3×8(φ10) FCRM3-BI	BWヘッドタッピングネジ				
	9-8	EO 33 00 86	Flat Head Tapping Screw	3×8 FCRM3-BI	皿タッピングネジ	PACK			
*	10	VE 48 36 00	Main Chassis Ass'y		メインシャーシ Ass'y			J	
*	〃	VF 70 28 00	〃		〃			U,C	
*	〃	VF 51 58 00	〃		〃			G	
*	〃	VE 48 37 00	〃		〃			A,B	
*	〃	VE 48 38 00	〃		〃			R	
	10-1	VD 49 11 00	Leg Cap.		レッグキャップ			J	
	10-2	VC 96 54 00	Pad		パッド				
	11	NB 63 83 90	Special Screw Ass'y		段付ネジ Ass'y				
	12	VC 32 03 00	Special Screw		段付ネジ				
	13	VE 85 72 00	Ground Plate F		アースプレートF				
	14	AA 63 12 30	〃		アース金具				
*	15	VE 48 88 00	Bottom Cover		ボトムカバー			J	
	〃	AA 63 12 10	〃		〃			U,C,R,A,B,G	
*	16	VE 43 58 00	Top Cover		トップカバー	Silver		U,C,R,A,B,G	
	〃	VD 48 92 00	〃		〃	Black		U,C,R,A,B,G	
*	17	VE 83 11 00	Ground Plate L		アースプレートL				
*	18	VE 83 12 00	〃 R		〃 R				
*	19	VE 48 78 00	Side Cover (L)		サイドカバー (L)	Black		J	
*	〃	VE 48 80 00	〃		〃	Titan		J	
*	20	VE 48 81 00	Side Cover (R)		サイドカバー (R)	Black		J	
*	〃	VE 48 83 00	〃		〃	Titan		J	
*	21	VE 48 84 00	Top Cover		トップカバー	Black		J	
*	〃	VE 48 86 00	〃		〃	Titan		J	
	22	ED 33 00 46	Binding Head Screw	3×4 FCRM3-BI	バインド小ネジ	PACK		J	
	23	VD 49 08 00	Support		サポート				
	24	VB 95 81 00	Spring		スプリング		CLV-1		
*	25	VE 76 46 00	Support		サポート				
	26	CB 65 91 50	Holder		ホルダー				
*	27	VE 02 52 00	Rod		ロッド				
*	28	VE 02 37 00	Button		ボタン	POWER Black			
*	〃	VE 30 93 00	〃		〃	〃 Silver		U,C,R,A,B,G	
*	〃	VE 43 30 00	〃		〃	〃 Titan		J	
*	29	VE 30 60 00	Plate		プレート	Black			
*	〃	VE 30 61 00	〃		〃	Silver		U,C,R,A,B,G	
*	〃	VE 45 36 00	〃		〃	Titan		J	
*	30	VE 30 92 00	Damper		ダンパー				
	31	CB 06 88 80	Plastic Rivet		プラスチックリベット				
	32	CB 65 77 50	〃		〃			R	
	33	VE 66 47 00	Washer	t3	ワッシャ			J	
	34	Ei 33 01 06	Binding Head Tapping Screw	3×10 ZMC2-BI	バインドタッピングネジ	PACK			
	35	Ei 33 01 26	〃	3×12 FCRM3-BI	〃	PACK			

*New Parts (新規部品) NR

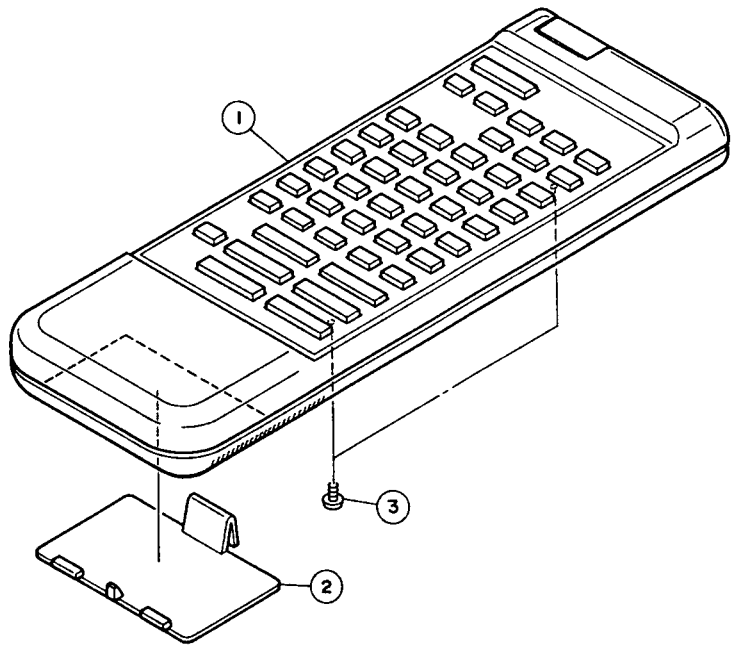
	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
	36	Ei 32 61 06	Binding Head Tapping Screw	2.6×10 FCRM3-BI	バインドタッピングネジ	PACK			
	37	Ei 34 01 46	〃	4×14 FCRM3-BI	〃	PACK			
	38	EV 41 30 36	Toothed Lock Washer	φ3 FCRM3-BI	歯付座金	PACK			
	39	EK 33 00 30	BW Head Tapping Screw	3×10 FCRM3-BI	BWヘッドタッピングネジ				
*	40	VE 85 73 00	Shield Plate		シールドプレート			J,R,C	
*	41	VE 48 87 00	Plate (Top)		プレート			J	
*	42	VE 64 71 00	Plate L (Top)		プレート L			J	
*	43	VE 64 72 00	Plate R (Top)		プレート R			J	
*	44	VF 01 30 00	Spacer		スペーサ			J	
*	45	VE 31 96 00	DM-710 Board In Kit		DM-710ボードインキット				
	46	LA 00 02 80	Ground Lug		アースラグ				
*	47	VE 85 42 00	Ferrite Core	ESD-R25DB	フェライトコア			U,C,R,A,B,G	
	48	BD 55 00 50	〃	ESD-R-12	〃				
	49	Ei 33 00 66	Binding Head Tapping Screw	3×6 FCRM3-BI	バインドタッピングネジ	PACK			
*	50	VF 16 84 00	Shield Plate Ass'y		シールドプレート Ass'y				
	51	VD 94 08 00	Lens		レンズ				
*	52	VF 27 54 00	Shield Plate		シールドプレート (HR)			U,C,R,A,B,G	
*	53	VF 27 55 00	〃		〃 (R)			U,R,A,B,G	
	54	VD 54 50 00	〃		〃			U,C,R,A,B	
*	〃	VF 83 18 00	〃		〃			G	
	55	CB 09 96 00	Plastic Rivet		プラスチックリベット			U,A,B,G	
	56	CB 60 32 40	〃		〃			J,R,A,B	
	57	UJ 13 73 30	Electrolytic Cap.	33μF 16V	ケミコン	C119		U,C,R,A,B,G	
	58	FZ 00 41 30	Semi-Conductive Ceramic Cap.	0.1μF 25V	セラコン	C120		U,C,R,A,B,G	
	59	FZ 00 37 90	〃	0.1μF 25V	〃	C122		U,C,R,A,B,G	
*	60	VF 37 65 00	Ferrite Core	FSDR25D	フェライトコア			U,C,R,A,B,G	
	61	BB 07 11 70	Ground Plate		アースプレート			U	
		CB 06 92 51	Binding Tie	BK-1	インシュロックタイ	PACK			
			Accessories		付属品				
		VD 29 53 00	Pin Cord		ピンコード			J	
		VD 77 99 00	〃	IP	〃			U,C,R,A,B,G	
*		VE 62 74 00	Remote Control Transmitter	RS-CDX910	リモートコントロールトランスミッター	Black		U,C,R,A,B,G	
*		VE 23 55 00	〃	RS-CDX1000	〃	〃		J	
*		VE 33 15 00	〃	RS-CDX910	〃	Silver		U,C,R,A,B,G	
*		VE 46 11 00	〃	RS-CDX1000	〃	Titan		J	
			Dry Cell	AA,R6	単3乾電池				

*New Parts (新規部品) NR

■EXPLODED VIEW(DM-710)



■EXPLODED VIEW(RS-CDX910)



	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
※		VE 23 55 00	*Remote Control Transmitter*	RS-CDX1000	リモートコントロールトランスミッター	Black		J	
※		VE 46 11 00	〃	〃	〃	Titan		J	
※		VE 62 74 00	〃	RS-CDX910	〃	Black		U,C,R,A,B,G	
※		VE 33 15 00	〃	〃	〃	Silver		U,C,R,A,B,G	
※	1	CX 60 20 90	Case Ass'y		ケース Ass'y	Black		J	
※	〃	CX 60 21 00	〃		〃	Titan		J	
※	〃	CX 60 20 60	〃		〃	Black		U,C,R,A,B,G	
※	〃	CX 60 20 70	〃		〃	Silver		U,C,R,A,B,G	
	2	CX 60 19 50	Battery Case		電池蓋	Titan		J	
	〃	CX 60 19 60	〃		〃	Black			
※	〃	CX 60 20 80	〃		〃	Silver		U,C,R,A,B,G	
	3	EX 60 02 60	Tapping Screw	2×4 BI	ネジ				

※New Parts (新規部品) NR

■MECHANISM PARTS(DM-710)

Note) φ : Diameter

	Ref. No.	Part No.	Description		部品名	Remarks	Common Model	Markets	ランク
*		VE 30 59 00	*Disc Mechanism Unit*	DM-710	D M ユ ニ ッ ト				
*	1	VE 35 62 00	Motor		モ ー タ	DISC			
*	2	VE 35 61 00	〃		〃	FEED			
*	3	VE 35 63 00	〃		〃	LOADING			
*	4	VE 18 84 00	Optical Pick Up Head		光ピックアップヘッド				
	5	NB 62 99 70	Turntable Unit		ターンテーブルユニット2				
	6	CB 64 24 00	Stanbilizer		スタビライザー2				
	7	CB 65 55 20	Flapper		フ ラ ッ パ ー 2				
	8	CB 65 55 40	Thrust Bearing		スラストベアリング2				
	9	CB 65 55 50	Pinion Gear		ピ ニ オ ン ギ ア 2				
*	10	VE 88 79 00	Loading Cam		ローディングカム3				
*	11	VE 02 29 00	Gear, Drive		ギヤー／ドライブ				
*	12	VE 02 28 00	Gear, Pulley		ギヤー／プーリー				
*	13	VE 49 12 00	Ring Stopper		リングストッパー				
*	14	VE 98 00 00	Idle Pulley		アイドルプーリー				
*	15	VE 02 30 00	Pulley, Feed		プーリー／フィード				
	16	CB 65 85 10	P.Pulley		P プ ー リ ー				
*	17	VE 02 25 00	Rack, GearA		ラック／ギヤーA				
*	18	VE 02 26 00	Rack, GearB		ラック／ギヤーB				
*	19	VE 02 34 00	Belf, Feed		ベルト／フィード				
*	20	VE 80 18 00	Belf, Loading		ベルト／ローディング				
*	21	VE 64 78 00	Spring		スプリングフラッパ				
*	22	VE 02 31 00	Shaft, PU710		シャフト／PU710				
*	23	VE 02 33 00	Shaft, Drive Gear		シャフト／ドライブギヤー				
	24	AA 61 93 30	Shaft (S)		シ ャ フ ト (S)				
*	25	VE 17 93 00	Spring		スプリング／ラック710				
	26	VD 73 24 00	〃		スプリング／BE				
*	27	VE 27 00 00	Lever (A)		レ バ ー (A)				
*	28	VE 27 01 00	〃 (B)		〃 (B)				
*	29	VE 27 02 00	Spring		スプリング／TE				
*	30	VD 93 87 00	Roler, SP	φ2.5	ロ ー ラ ー S P				
	31	Ei 32 60 56	Binding Head Tapping Screw	2.6×5 FCRM3-BI	バインドタッピングネジ	PACK			
	32	ED 32 00 56	Binding Head Screw	2×5 ZMC2-BI	バ イ ン ド 小 ネ ジ	PACK			
	33	ED 32 00 46	〃	2×4 ZMC2-BI	〃	PACK			
	34	ED 32 60 66	〃	2.6×6 FCRM3-BI	〃	PACK			
	35	ED 33 00 66	〃	3×6 FCRM3-BI	〃	PACK			
	36	EK 33 00 10	BW Head Tapping Screw	3×12 FCRM3-BI	BWヘッドタッピングネジ				

*New Parts (新規部品) NR

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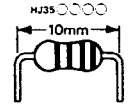
Parts List for Carbon Resistor

Value	1/4W Type Part No.	1/6W Type Part No.	Value	1/4W Type Part No.	1/6W Type Part No.
1.0 Ω	HJ353100	HF853100	12KΩ	HJ357120	HF857120
1.8 〃	HJ353180	*	15 〃	HJ357150	HF857150
2.2 〃	HJ353220	HF853220	18 〃	HJ357180	HF857180
3.3 〃	HJ353330	HF853330	22 〃	HJ357220	HF857220
4.7 〃	HJ353470	HF853470	27 〃	HJ357270	HF857270
5.6 〃	HJ353560	HF853560	33 〃	HJ357330	HF857330
10 〃	HJ354100	HF854100	39 〃	HJ357390	HF857390
15 〃	HJ354150	HF854150	47 〃	HJ357470	HF857470
22 〃	HJ354220	HF854220	56 〃	HJ357560	HF857560
27 〃	HJ354270	HF854270	68 〃	HJ357680	HF857680
33 〃	HJ354330	HF854330	82 〃	HJ357820	HF857820
39 〃	HJ354390	HF854390	91 〃	HJ357910	HF857910
47 〃	HJ354470	HF854470	100 〃	HJ358100	HF858100
56 〃	HJ354560	HF854560	120 〃	HJ358120	HF858120
68 〃	HJ354680	HF854680	150 〃	HJ358150	HF858150
82 〃	HJ354820	HF854820	180 〃	HJ358180	HF858180
100 〃	HJ355100	HF855100	220 〃	HJ358220	HF858220
110 〃	HJ355110	HF855110	270 〃	HJ358270	HF858270
120 〃	HJ355120	HF855120	330 〃	HJ358330	HF858330
150 〃	HJ355150	HF855150	390 〃	HJ358390	HF858390
160 〃	HJ355160	*	470 〃	HJ358470	HF858470
180 〃	HJ355180	HF855180	560 〃	HJ358560	HF858560
220 〃	HJ355220	HF855220	680 〃	HJ358680	HF858680
270 〃	HJ355270	HF855270	820 〃	HJ358820	HF858820
330 〃	HJ355330	HF855330	1.0MΩ	HJ359100	HF859100
390 〃	HJ355390	HF855390	1.2 〃	HJ359120	*
470 〃	HJ355470	HF855470	1.5 〃	HJ359150	HF859150
510 〃	*	HF855510	1.8 〃	HJ359180	HF859180
560 〃	HJ355560	HF855560	2.2 〃	HJ359220	HF859220
680 〃	HJ355680	HF855680	3.3 〃	HJ359330	HF859330
820 〃	HJ355820	HF855820	3.9 〃	HJ359390	*
910 〃	HJ355910	HF855910	4.7 〃	HJ359470	HF859470
1.0KΩ	HJ356100	HF856100			
1.2 〃	HJ356120	HF856120			
1.5 〃	HJ356150	HF856150			
1.8 〃	HJ356180	HF856180			
2.0 〃	HJ356200	HF856200			
2.2 〃	HJ356220	HF856220			
2.4 〃	HJ356240	HF856240			
2.7 〃	HJ356270	HF856270			
3.0 〃	HJ356300	HF856300			
3.3 〃	HJ356330	HF856330			
3.6 〃	HJ356360	HF856360			
3.9 〃	HJ356390	HF856390			
4.7 〃	HJ356470	HF856470			
5.1 〃	HJ356510	HF856510			
5.6 〃	HJ356560	HF856560			
6.8 〃	HJ356680	HF856680			
8.2 〃	HJ356820	HF856820			
9.1 〃	HJ356910	HF856910			
10 〃	HJ357100	HF857100			

1/4W Type HJ35○○○○



1/6W Type HF85○○○○

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