

COMPACT DISC PLAYER

CDC-585/CDC-506

CDC-685/CDC-906

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 inherent 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 any 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 cover. 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 part replacement. Recheck all work before you apply power to the unit.

■ CONTENTS

TO SERVICE PERSONNEL	1~2
PREVENTION OF ELECTROSTATIC DISCHARGE TO STATICALLY SENSITIVE (ES) DEVICES	3
FRONT PANELS	4
REAR PANELS	5
SPECIFICATIONS	6
INTERNAL VIEW	6
DISASSEMBLY PROCEDURES	7~9
MAIN P.C.B. CHECK	10
STANDARD OPERATION CHART	11~12
TEST MODE	13~15
ERROR MESSAGES	16~18

IC DATA	19~23
DISPLAY DATA	24
IC BLOCKS	25~26
PIN CONNECTION DIAGRAM	27
BLOCK DIAGRAM	28~29
PRINTED CIRCUIT BOARD	30~37
CDC-585/CDC-506 SCHEMATIC DIAGRAM	38
CDC-685/CDC-906 SCHEMATIC DIAGRAM	39
PARTS LIST	40~54
GREASE APPLICATION DIAGRAM	55
REMOTE CONTROL TRANSMITTER	56
PARTS LIST FOR CARBON RESISTORS	57

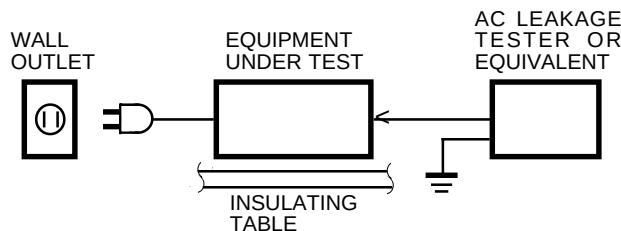


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This Service Manual uses recycled paper.



■ TO SERVICE PERSONNEL

1. Critical Components Information
Components having special characteristics are marked $\triangle$ and must be replaced with parts having specifications equal to those originally installed.
2. Leakage Current Measurement (For 120V Models Only)
When service has been completed, it is imperative to verify that all exposed conductive surfaces are properly insulated from supply circuits.
 - Meter impedance should be equivalent to 1500 ohm shunted by 0.15 μ F.
 - Leakage current must not exceed 0.5mA.
 - Be sure to test for leakage with the AC plug in both polarities.



CAUTION: USE OF CONTROLS OR 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.

WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHATSOEVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

WARNING: Laser Safety

This product contains a laser beam component. This component may emit invisible, as well as visible radiation, which may cause eye damage. To protect your eyes and skin from laser radiation, the following precautions must be used during servicing of the unit.

- 1) When testing and/or repairing any component within the product, keep your eyes and skin more than 30 cm away from the laser pick-up unit at all times. Do not stare the laser beam at any time.
- 2) Do not attempt readjustment, disassemble or repair of the laser pick-up, unless noted elsewhere in this manual.
- 3) CAUTION: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser Emitting conditions:

- 1) When the Top Cover is removed, and the POWER SW is turned to the "ON" position, the laser component will emit a beam for several seconds to detect if a disc is present. During this time (5 - 10 sec.) the laser may radiate through the lens of the laser pick-up unit. Do not attempt any servicing during this period!
If no disc is detected, the laser will stop emitting the beam. when a disc is set, you will not be exposed to any laser emissions.
- 2) The laser power level can be adjusted with the VR on pick-up PWB, however, this level has been set by the factory prior to shipping from the factory. Do not adjust this laser level control unless instruction is provided elsewhere in this manual. Adjustment of this control can increase the laser emission level from the device.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

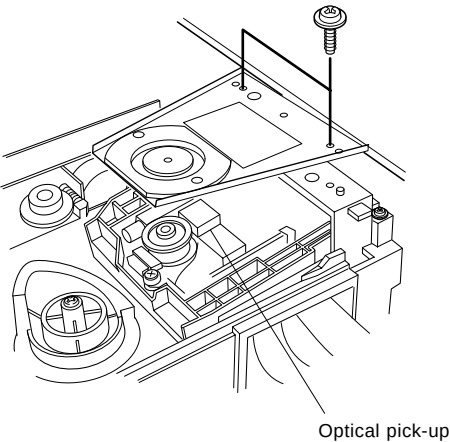
This set employs a laser. Therefore, be sure to carefully follow the instructions below when servicing.

1. Laser Diode Properties

- Material : GaAlAs
- Wavelength : 780 nm
- Emission Duration : Continuous
- Laser Output : max. 44.6 μW*

* This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.

2. When checking the laser diode emission, keep your eyes more than 30 cm away from the objective lens.

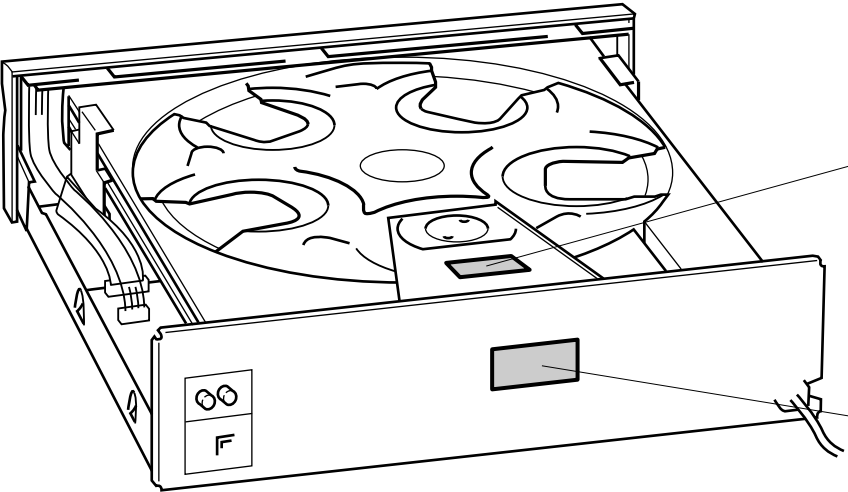


VARO!

: AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASER-SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

VARNING!

: OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.



B, G, R models	
CAUTION	- VISIBLE AND / OR INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
VARNING	- SYNLIIG OCH / ELLER OSYNLIIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG.
VARO !	- AVATTAESSA OLET ALTTIINA NÄKYMÄLLE JA / TAI NÄKYMÄTTÖMÄLLE LASER-SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	- SYNLIIG OCH / ELLER OSYNLIIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
VORSICHT !	- SICHTBARE UND / ODER UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.

B, G, R models

CLASS 1 LASER PRODUCT
LASER KLASSE 1 PRODUKT
LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

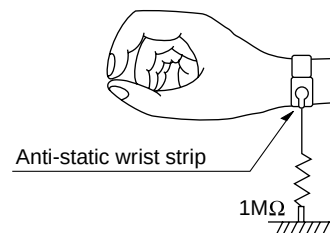
■ PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

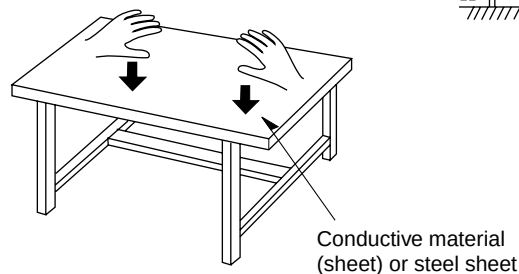
Grounding for electrostatic breakdown prevention

1. Human body grounding.
Use the antistatic wrist strap to discharge the static electricity from your body.
2. Work table grounding.
Put a conductive material (sheet) or steel sheet on the area where the optical pickup is placed and ground the sheet.



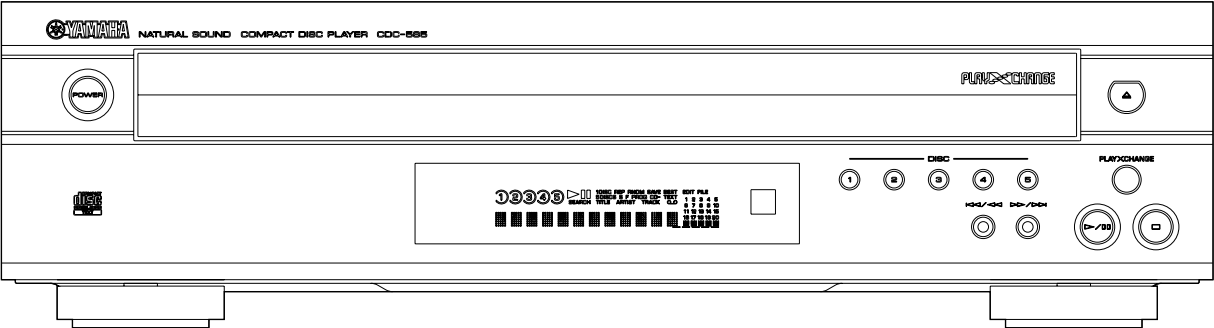
Caution:

The static electricity of your clothes will not be grounded through the wrist strap. So take care not to let your clothes touch the optical pickup.

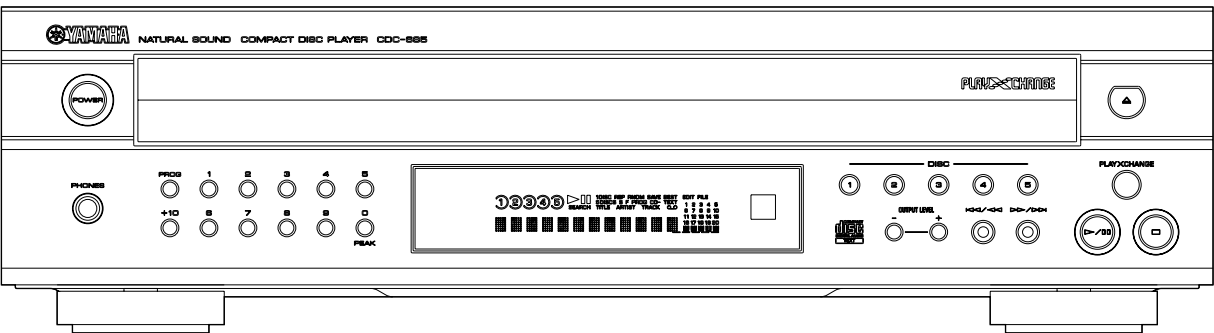


FRONT PANELS

CDC-585/CDC-506

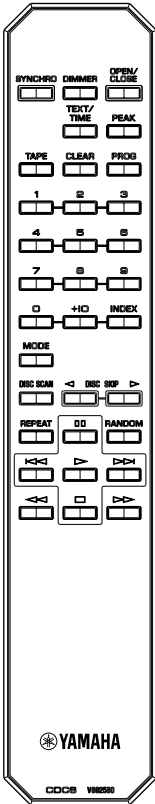


CDC-685/CDC-906

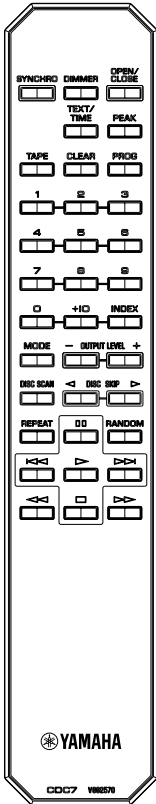


REMOTE CONTROL TRANSMITTER

CDC-585/CDC-506



CDC-685/CDC-906



CAUTION FOR TRANSPORTING THIS UNIT

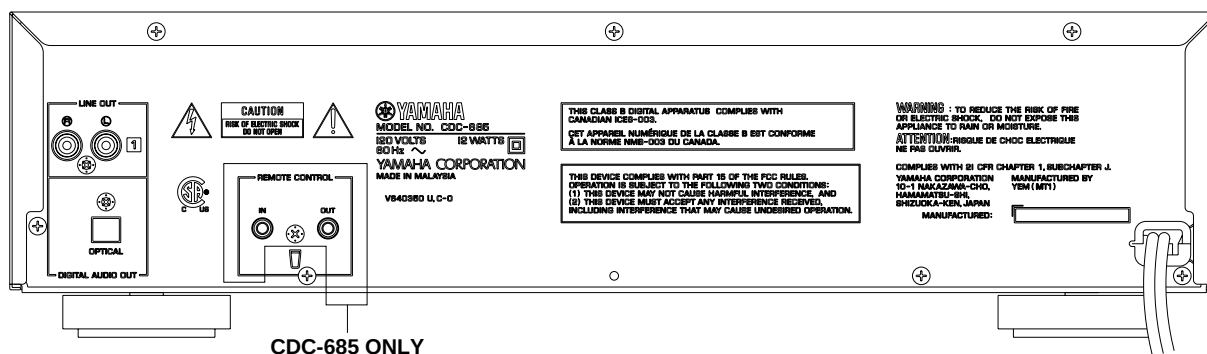
When transporting this unit, first remove all discs from the disc tray and close the tray by pressing the **OPEN/CLOSE** button, and then switch off the power after you confirm that the display has turned as follows.



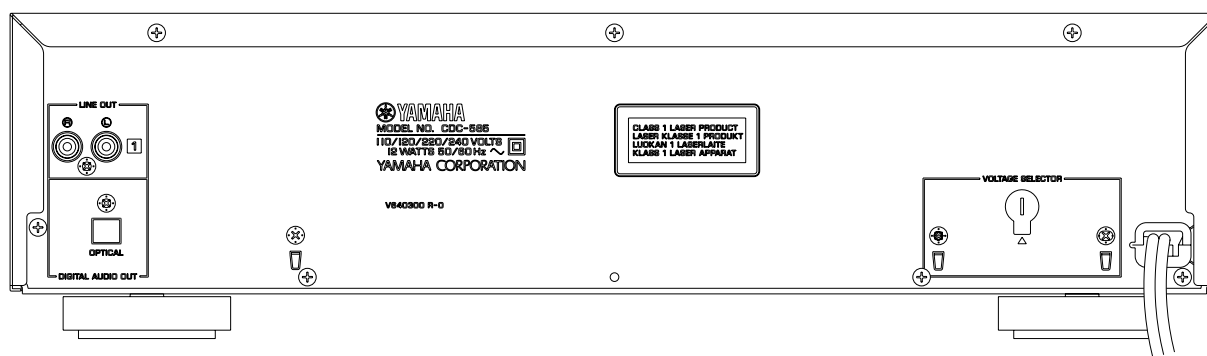
Never switch off the power if the display does not turn as above, otherwise the unit will become damaged during transport because the internal mechanism is not locked.

REAR PANELS

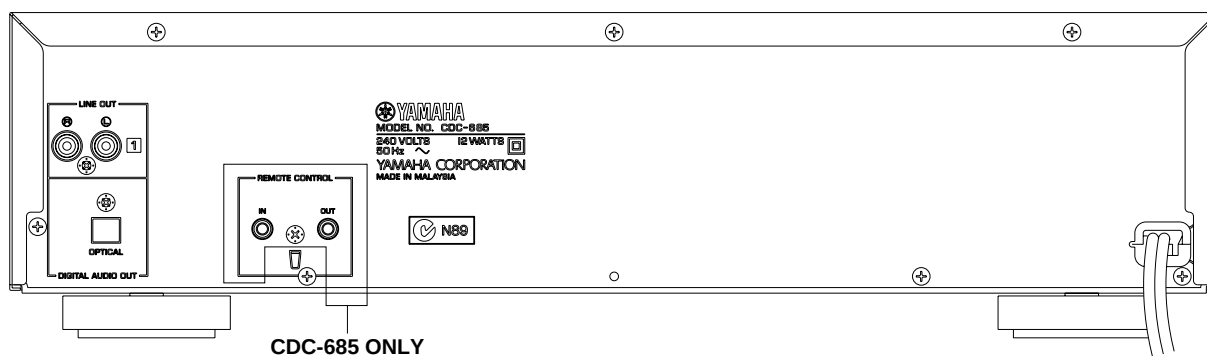
▼ U, C models



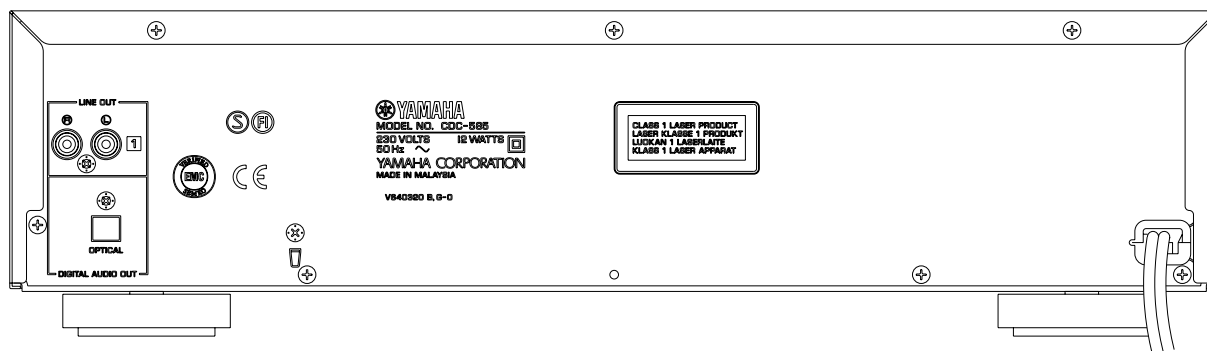
▼ R model



▼ A model



▼ B, G model



SPECIFICATIONS

AUDIO SECTION

Output Level (1kHz 0dB)	2.0±0.5V
S/N Ratio	106dB
Dynamic Range	96dB
Harmonic Distortion+Noise (1kHz)	0.003%
Frequency Response (2Hz~20kHz)	±0.5dB
Headphone Output (CDC-685/CDC-906 only)	
150Ω, 1kHz, -20dB Input	200±40mV

GENERAL

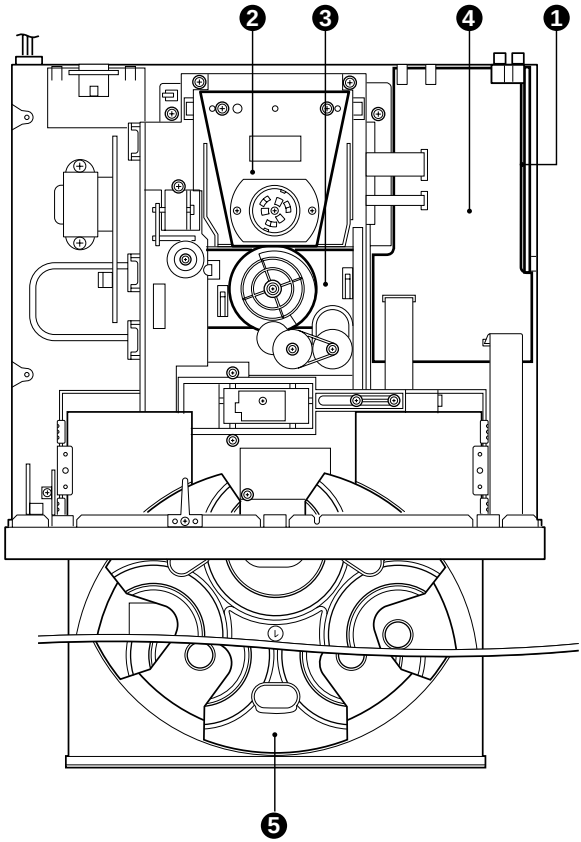
Power Supply	
U, C models	120V AC 60Hz
B, G models	230V AC 50Hz
A model	240V AC 50Hz
R model	110/120/220/240V AC 50/60Hz
Power Consumption	12W
Dimensions (W x H x D)	435 x 116 x 404 mm (17-1/8" x 4-9/16" x 15-7/8")
Weight	5.85kg (12 lbs 12 oz)
Accessories	Pin plug cord Remote control transmitter Battery: x2 (Size "AA", R06)

* Specifications subject to change without notice.

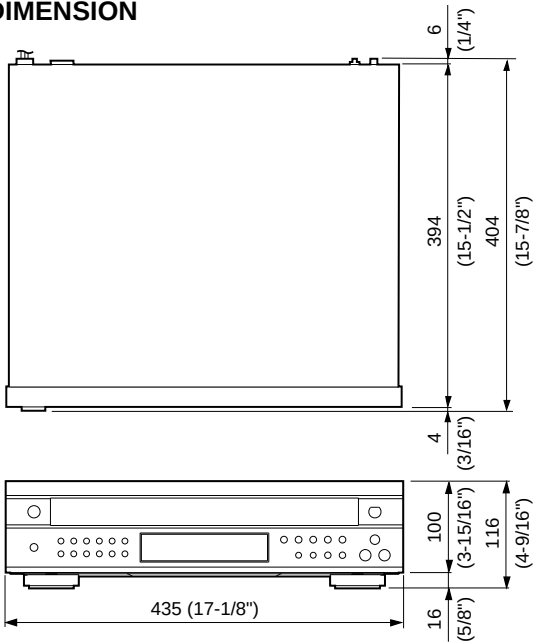
U USA model	B British model
C Canadian model	G European model
A Australian model	R General model

INTERNAL VIEW

- 1 P.C.B. MAIN (2)
- 2 CLAMP ASS'Y
- 3 CM-230 UNIT (CDC-585/CDC-506)
- 3 CM-240 UNIT (CDC-685/CDC-906)
- 4 P.C.B. MAIN (1)
- 5 TRAY ASS'Y



DIMENSION



Unit : mm (inch)

■ DISASSEMBLY PROCEDURES (Remove parts in the order as numbered.)

1. Removal of Top Cover

- Remove 4 screws (①) and also 3 screws (②) as shown in Fig. 1.

2. Removal of Clamp Ass'y

- Remove 2 screws (③) as shown in Fig. 1.

3. Removal of Tray Ass'y

- Remove 1 screw (④) as shown in Fig. 1.
- Turn Gear/L0 as shown in Fig. 2 counter clockwise gradually until immediately before the tray starts to move and stop it there.

CAUTION : Gear/L0, if turned counter clockwise continuously, will mesh with the gear of the tray and the tray will come out. When removing the tray, use care so that Gear/L0 will not mesh with the gear of the tray.

- Pull out the Tray Ass'y.

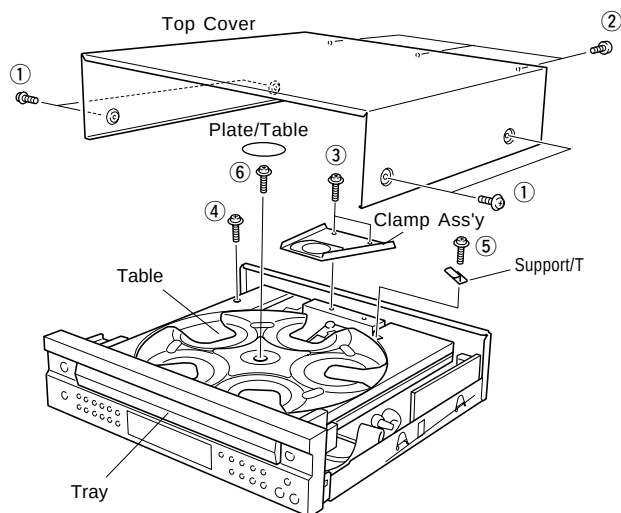


Fig. 1

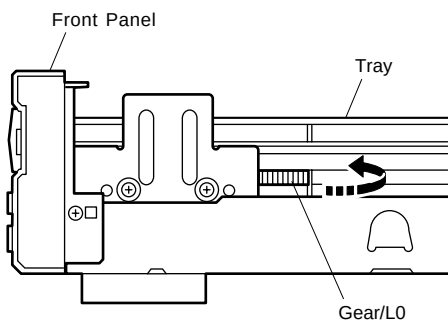


Fig. 2

4. Removal of Table

- Remove 1 screw (⑤) and then remove the Support/T as shown in Fig. 1.
- Remove the Plate/Table as shown in Fig. 1.
- Remove 1 screw (⑥) and then take off the Table as shown in Fig. 1.

- **Precaution for installation of the Tray Ass'y.**
On Tray Ass'y setting.
Check the Direction of marking "▲" on gear according to this drawing.

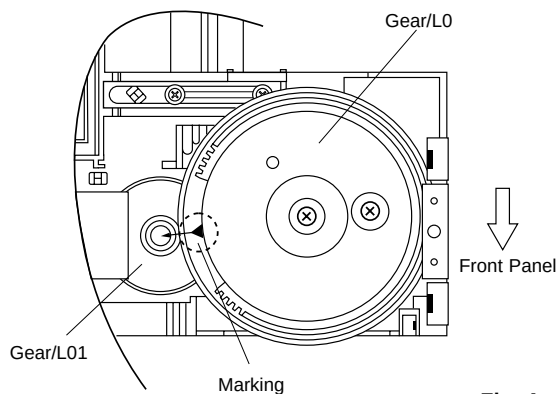


Fig. A

IMPORTANT : Installation of Table.

Install the table according to the following procedure.

- Slide the Lever so that the Gear/RT1 becomes free. (Fig.B-1)
- With the "▲" mark on the Gear/RT1 aligned with the same mark on the Tray, lock it with the Lever. (Fig.B-1)
- Install the Table by aligning it to the thick line on " / " mark. (Fig.B-2)

*Check that the Table is locked after installation.

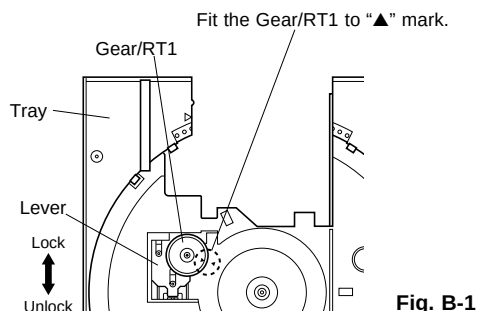


Fig. B-1

Fit the table to the thick line on " / " mark.

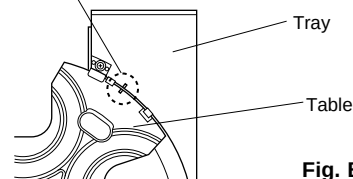


Fig. B-2

CDC-585/506

CM-230 unit can not be removed without removing the front panel unit.

5-A. Removal of Front Panel Unit (CDC-585/CDC-506 only)

- Remove CB200, CB301 and CB304.
- Remove 4 screws (⑦) and 3 screws (⑧) as shown in Fig. 3.
- Remove the Front Panel Unit as shown in Fig. 3.

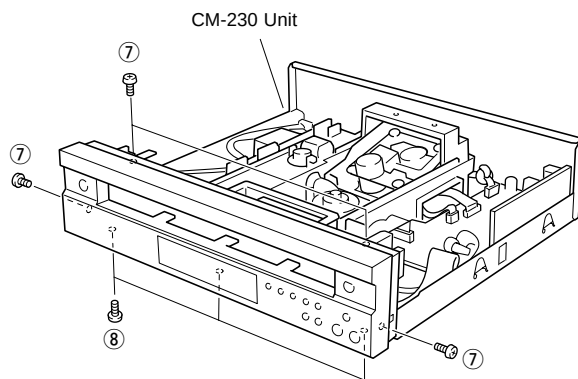


Fig. 3

5-B. Removal of CM-230 Unit (CDC-585/CDC-506 only)

- Remove 4 screws (⑨) as shown in Fig. 4.
- Remove connectors (CB202 & 410) and cables (CB1 & 2, CB300) from the P.C.B. Main.
- Take the CM-230 Unit out slowly as shown in Fig. 4.

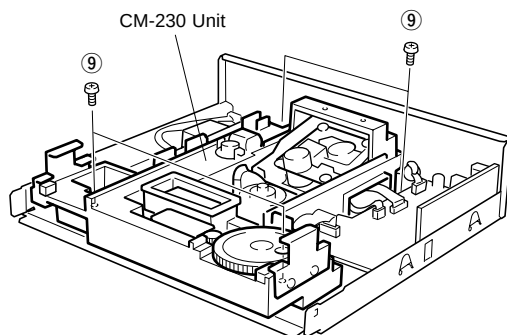
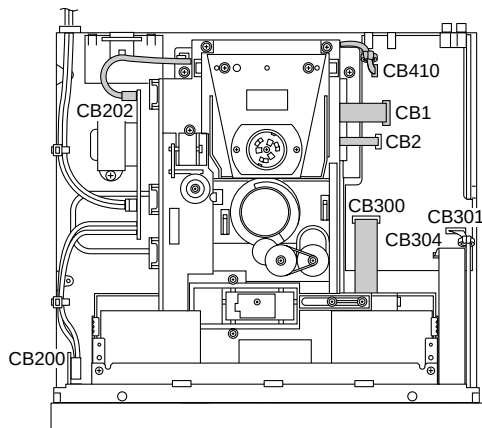


Fig. 4

**CDC-685/906**

CM-240 unit can be removed without removing the front panel unit.

5. Removal of CM-240 Unit (CDC-685/CDC-906 only)

- Remove 4 screws (⑩) as shown in Fig. 5.
- Remove connectors (CB202 & 410) and cables (CB1 CB2, CB100, CB102 & 300) from the P.C.B. Main.
- Take the CM-240 Unit out slowly as shown in Fig. 5.

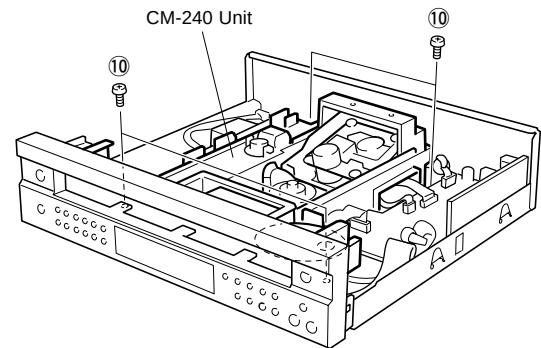
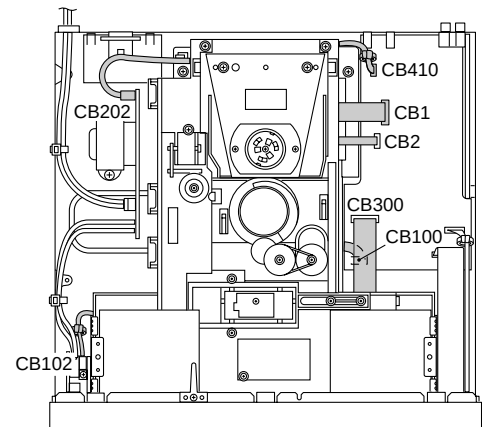


Fig. 5



6. Removal of PU Mechanism Unit

- a. Remove 2 screws (⑪) and then remove the PU Unit Ass'y as shown Fig. 6.

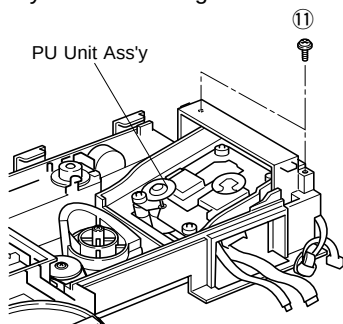


Fig. 6

- b. Remove 4 screws (⑫) and then remove the PU Mechanism Unit as shown in Fig. 7.

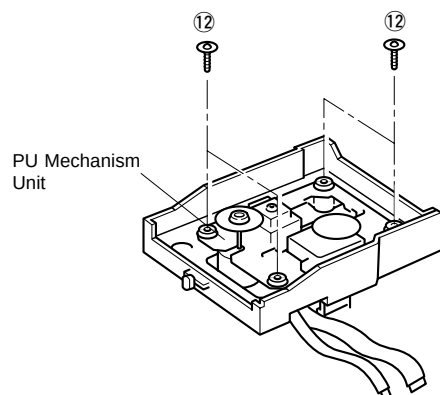


Fig. 7

● Operation Check Procedure

① Disassembly

- 1) Remove the top cover.
- 2) Remove the Clamp Ass'y.
- 3) Remove the stabilizer from the Holder.

Turn the Plate clockwise by 30° while holding the Stabilizer, and the Plate will come off. Remove the Stabilizer from the Holder.

- ② Clamp the disc by using the stabilizer.
- ③ Set to the TEST mode and check for any faulty conditions.

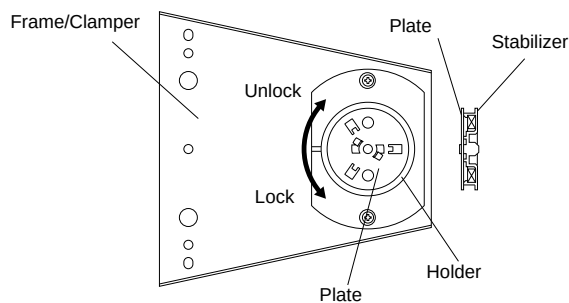


Fig. C

■ MAIN P.C.B. CHECK

Preparation before MAIN P.C.B. Check

- a. Remove the Top Cover.
- b. Remove the Tray Ass'y
- c. Remove 3 screws (①) on the Panel as shown in Fig. 1.
- d. Remove 2 screws (②) and 1 plastic rivet on the Main P.C.B. as shown in Fig. 2.
- e. Spread a cloth over the Main Chassis as shown in Fig. 2.
- f. Put the Main P.C.B. on end as shown in Fig. 2.
- g. Connect the ground point of Main P.C.B. (2) to rear panel by using wire as shown in Fig. 2.

CAUTION : The ground point must be connected to rear panel to keep the circuit in normal operation when Main P.C.B. is removed from main chassis.

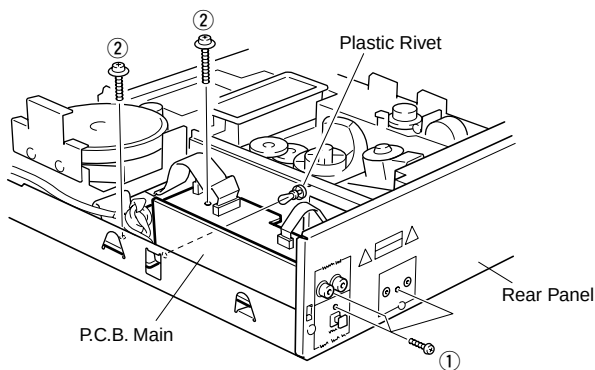


Fig. 1

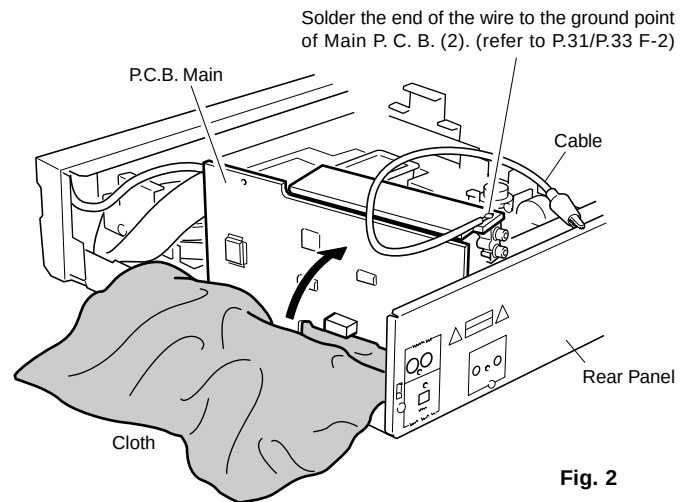


Fig. 2

- h. Remove 7 screws (③) as shown in Fig. 3.
- i. Remove 5 screws (④) and 1 screw (⑤) as shown in Fig. 4.
- j. Remove the front panel from the Main Chassis.

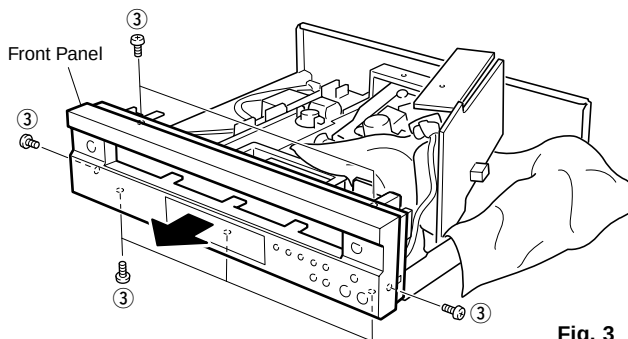


Fig. 3

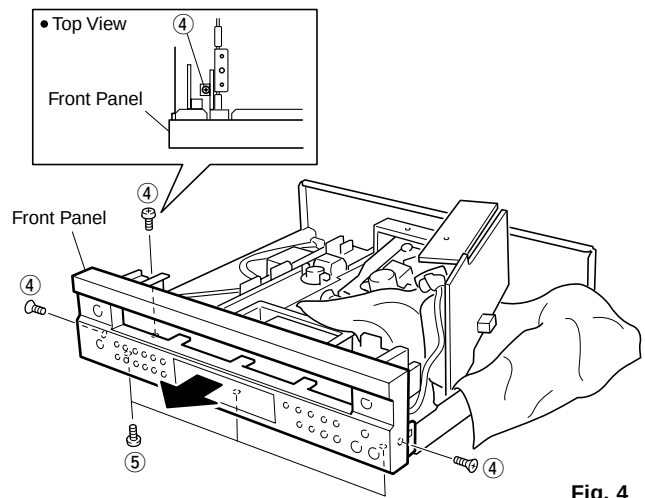
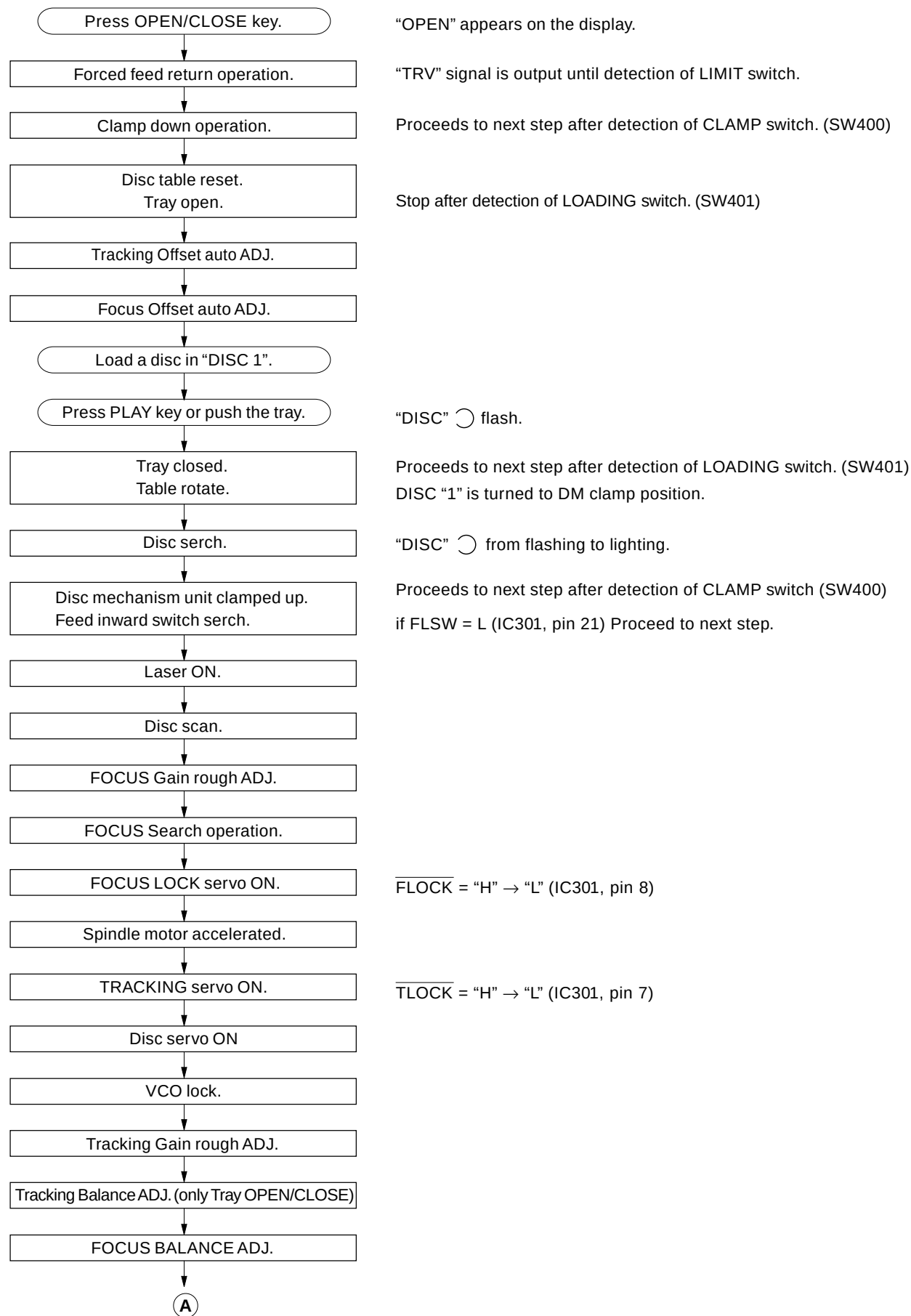
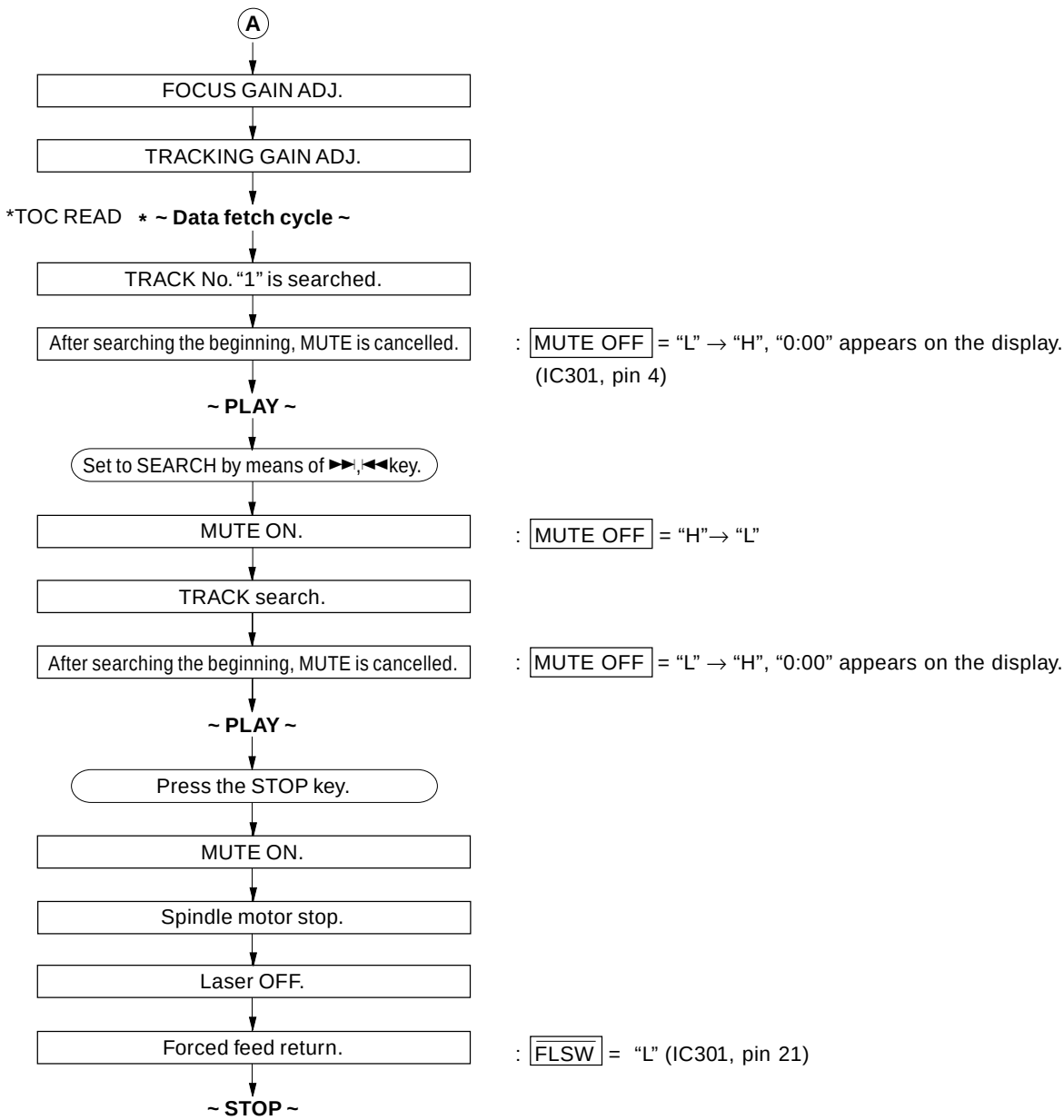


Fig. 4

STANDARD OPERATION CHART





■ TEST MODE

● Starting TEST mode

Test mode is started when the power is turned on while the "PLAY/PAUSE" and "STOP" keys on the panel are simultaneously pressed and held.

When the test mode is started, all the displays light up for about 1 second. ("TEST" on display)

NOTE : To fully operate all test modes the remote control must be used.

● Function List of Panel keys

Note: "traverse servo" means the same as "feed servo"

PANEL KEY	FUNCTION	
OPEN/CLOSE	Tray open/close.	
PLAYXCHANGE	Rotating the mode of coefficients. (Coefficient mode→Coefficient setting→Product mode) Pressing twice will set to the product mode.	
PLAY/PAUSE	Plays if focus servo is effective. TRON, MUTE OFF.	
STOP	All stop. (Focus, spindle, feed, laser, tray, etc.) Initializes FL display.	
◀◀SKIP	Backward traverse move. (If inner SW turns on, traverse is stopped.) (Coefficient set up mode : upper digit down.)	
▶▶SKIP	Forward traverse move. (Coefficient set up mode : upper digit up.)	
DISC 1	Returns to product mode. (Tray and table inoperative.)	
DISC 2	Adjustment mode 1 (TR-offset, FO-offset, FO-rough gain adjustment)	
DISC 3	Adjustment mode 2 (TR-balance, TR-rough gain adjustment)	
DISC 4	Adjustment mode 3 (FO-fine gain, TR-fine gain, FO-balance adjustment)	
DISC 5	—	
PROG	Decelerates or stops spindle.	
OUTPUT LEVEL –	Output level down. (Coefficient set up mode : address down.)	CDC-685/ CDC-906 ONLY
OUTPUT LEVEL +	Output level up. (Coefficient set up mode : address up.)	
+10	—	
1	Returns to product mode. (tray and table inoperative.)	
2	Adjustment mode 1 (TR-offset, FO-offset, FO-rough gain adjustment)	
3	Adjustment mode 2 (TR-balance, TR-rough gain adjustment)	
4	Adjustment mode 3 (FO-fine gain, TR-fine gain, FO-balance adjustment)	
5	Turn table turns counterclockwise. (Slow speed)	
6	Turn table turns clockwise. (Slow speed)	
7 (Note 1)	Turn table turns counterclockwise. (Fast speed)	
8 (Note 1)	Turn table turns clockwise. (Fast speed)	
9	Backward 10 TRACK KICK-continuously	
0	Forward 10 TRACK KICK-continuously	

(Note 1) When the disc table is not positioned correctly, be sure to turn the disc table one full rotation by using the DISC SKIP key on the remote control unit before canceling the TEST mode.

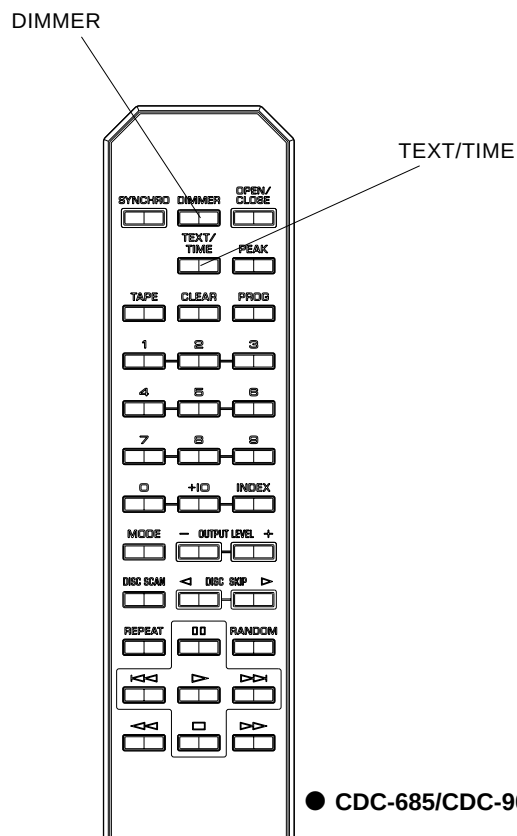
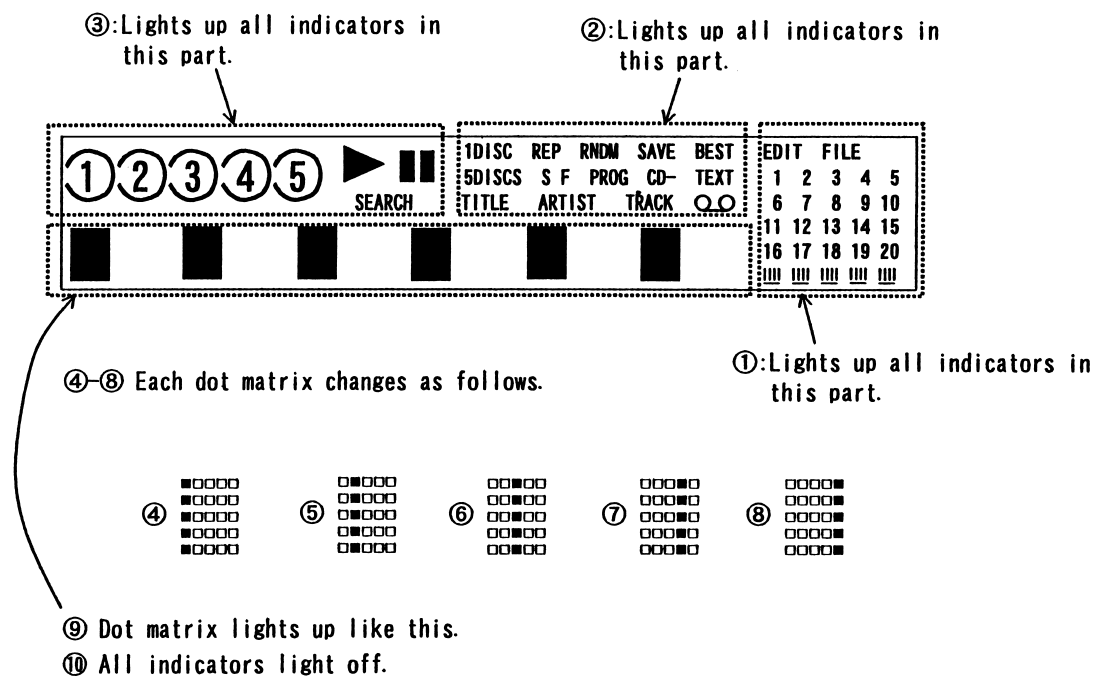
● Function List of Remote Control Transmitter

CUSTOM CODE = (79)x

CODE	KEY	FUNCTION	
00	MODE	Traverse stop	
01	OPEN/CLOSE	Tray open/close	
02	PLAY	PLAY (FOON, TRON, TVON (FEON), SPON)	
04	◀◀SKIP	Backward traverse move. (If inner SW turns on, traverse is stopped.) (Coefficient set up mode : upper digit down)	
05	◀◀SEARCH	Clamp down. (Coefficient set up mode : lower digit down)	
06	▶▶SEARCH	Clamp up. (Coefficient set up mode : lower digit up)	
07	▶▶SKIP	Forward traverse move. (Coefficient set up mode : upper digit up)	
08	REPEAT	FOON, TROF (Enter focus search if focus servo is off.)	
0A	TEXT/TIME (Note 2)	Checks FL display.	
0B	INDEX	FOON, TROF, TVOF (FEOF) (Enter focus search if focus servo is off.)	
0C	PROG	Rotates or accelerates spindle.	
0D	CLEAR	Decelerates spindle.	
10	0	Backward 150 TRACK KICK continuously	
11	1	Returns to product mode. (Tray and Table inoperative.)	
12	2	Adjustment mode 1 (TR-offset, FO-off set, FO-rough gain adjustment)	
13	3	Adjustment mode 2 (TR-balance, TR-rough gain adjustment)	
14	4	Adjustment mode 3 (FO-fine gain, TR-fine gain, FO-balance adjustment)	
15	5	Forward 1 TRACK KICK continuously	
16	6	Backward 1 TRACK KICK continuously	
17	7	Forward 30 TRACK KICK continuously	
18	8	Backward 30 TRACK KICK continuously	
19	9	Forward 150 TRACK KICK continuously	
1A	+10	Enter coefficient set up mode.	
1B	RANDOM	SPON (Spindle servo on.)	
1C	OUTPUT LEVEL –	Output level down. (Coefficient set up mode : address down)	CDC-685/CDC-906 ONLY
1D	OUTPUT LEVEL +	Output level up. (Coefficient set up mode : address up)	
1E	DIMMER (Note 2)	Checks FL display.	
4F	DISC SKIP ▷	DISC SKIP + (Clockwise)	
50	DISC SKIP ◁	DISC SKIP – (Counterclockwise)	
53	DISC SCAN	–	
55	PAUSE	FOON, TROF, TVOF (FEOF) (Enter focus search if focus servo is off.)	
56	STOP	All stop. (Focus, spindle, traverse, laser, tray, etc.)	
57	TAPE	Spindle free (off)	CDC-685/CDC-906 ONLY
58	SYNCHRO	Backward traverse move	

(Note 2) Checks FL display.

Display changes as follows (①→②→...→⑩) as you press the key.



■ ERROR MESSAGE

When stopped by any cause, press "STOP" of the remote control while pressing and holding the "STOP" on the panel key. The operation mode turns to the mode allowing the display of messages.

The unit hold the latest error message in EEPROM. So even if stopped with no error, the unit can display the latest error message with same operation. (Except for CDC-585/CDC-506, which have no EEPROM.)

● Error Messages List

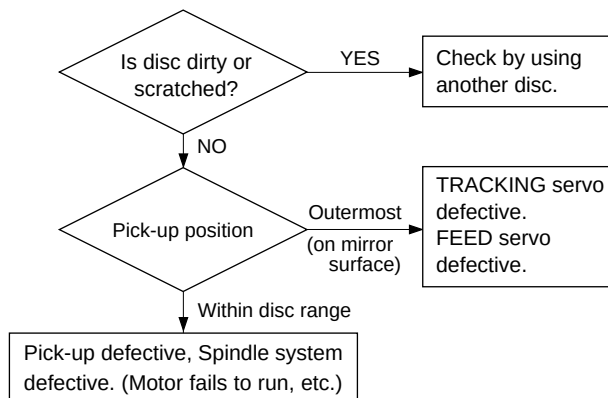
ERROR MESSAGE	DESCRIPTION
E — X 0	Data cannot be read after finishing search.
E — X 1	Data cannot be read during PLAY (x = 0), PAUSE (x = 3) or SCAN (x = 2).
E — 7 1	At the start, tracking servo is not effective.
E — 7 2	At the start, spindle servo PLL is not effective.
E — 7 3	At the start, data can not read.
E — X 4	Close switch does not work with tray closed.
E — X 5	Open switch does not work with tray opened.
E — X 6	Table does not turn.
E — X 7	Traverse (Feed) inner circumference switch does not work.
E — X 8	Recovery action fails after focus drop.
E — X 9	Clamp down switch does not work.
E — X A	Clamp up switch does not work.
E r r	MN35511 does not give response of SENSE, with resetting by the unit's microcomputer.

* Meaning of each state ("X") :

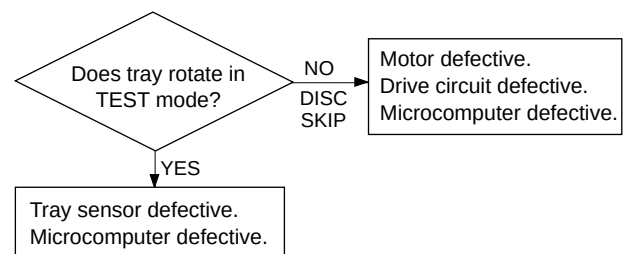
(X = 0)PLAY
(X = 2)SCAN
(X = 3)PAUSE
(X = 4)PEAK SEARCH
(X = 5)SEARCH
(X = 6)DISC SCAN
(X = 7)START
(X = 8)STOP
(X = 9)DISC SEARCH
(X = -)EJECT
(X = C) NO DISC

1) Error Code Troubleshooting

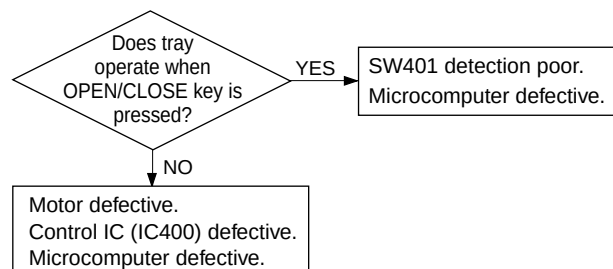
Error codes **X0**, **X1**, **73** Data cannot be read.



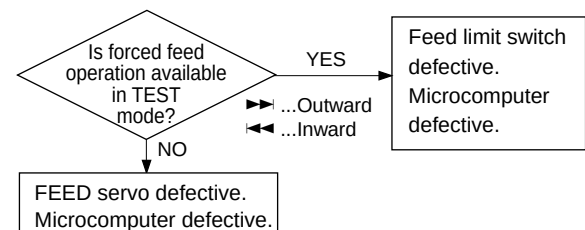
Error code **X6** Poor table rotation.



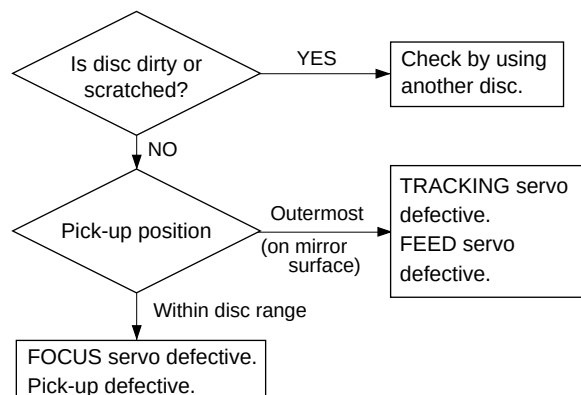
Error codes **X4**, **X5** Poor tray loading operation.



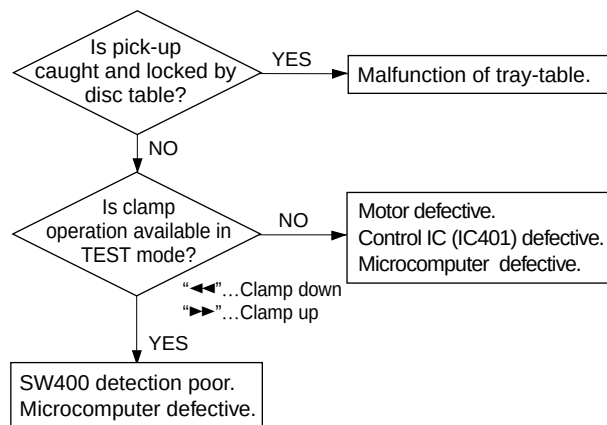
Error code **X7** FEED operation defective. (Limit switch fails)



Error code **X8** Focus drops.

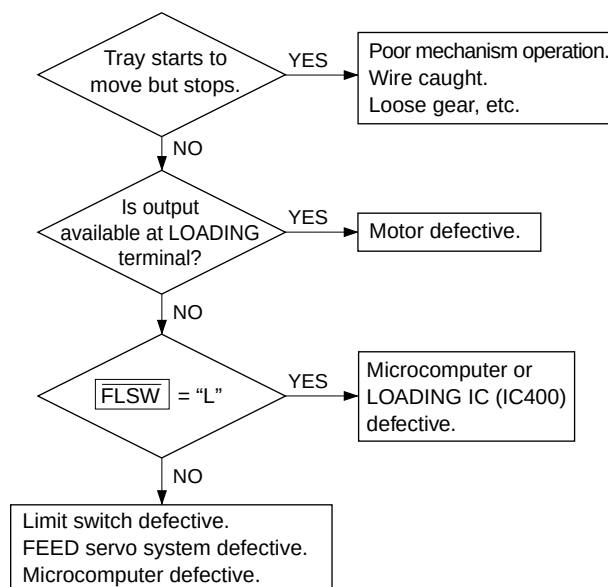


Error code **X9**, **XA** Poor clamp operation.

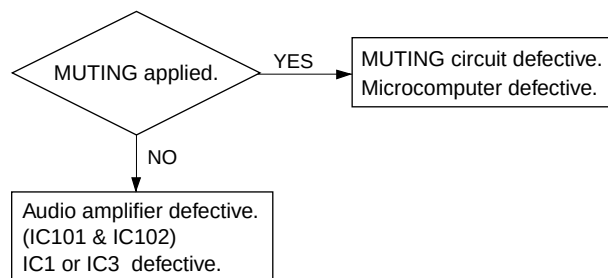


2) Troubleshooting from System Malfunctions.

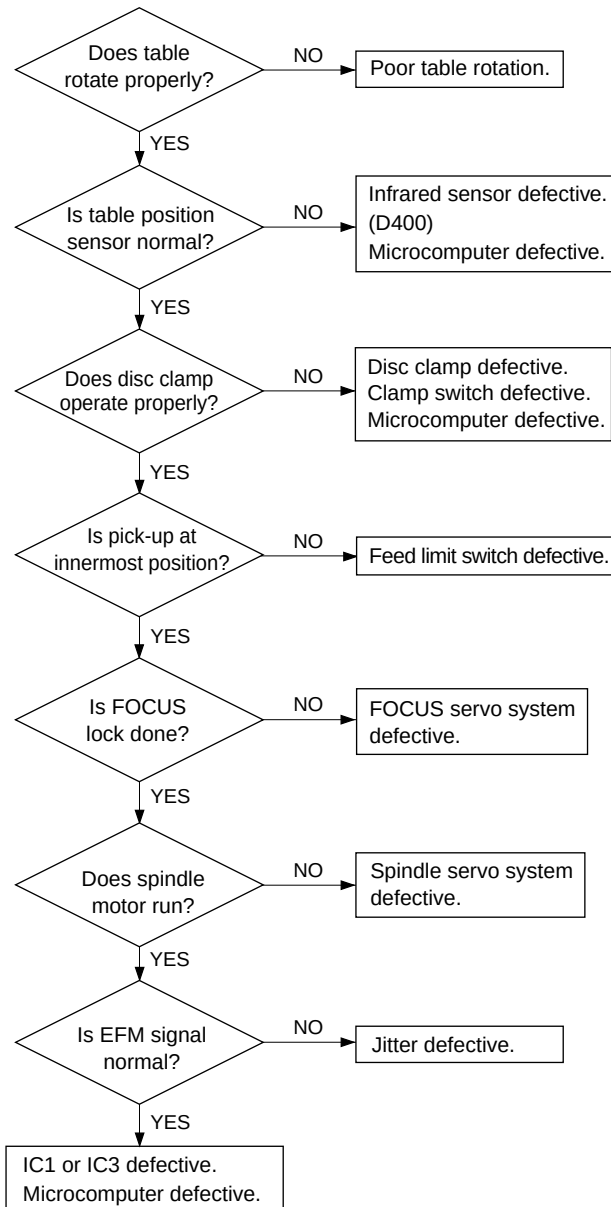
a) Tray fails to come out/go in.



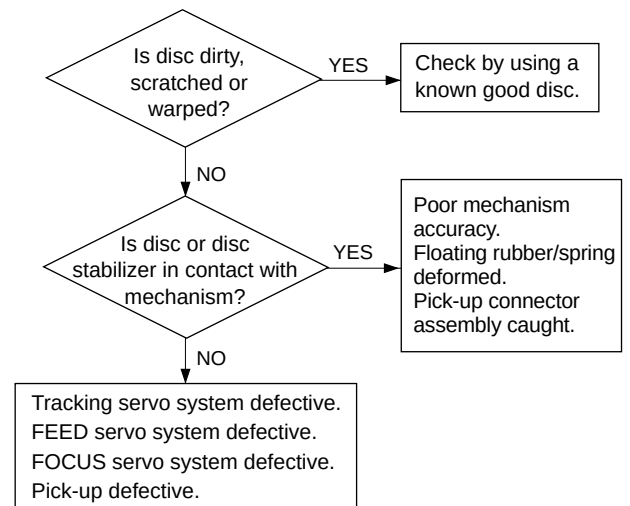
b) No sound generated, Sound cut during play. (but time display advanced properly)



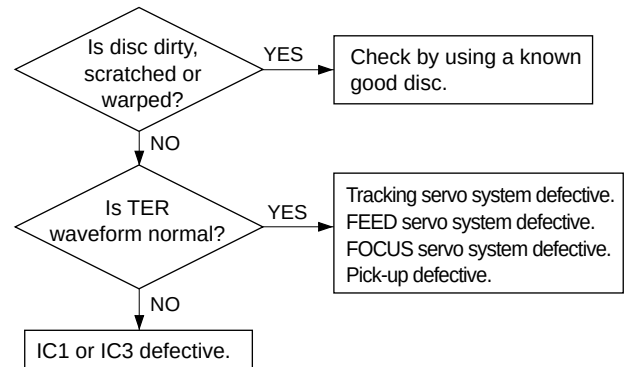
**c) Operates as if no disc loaded.
(although loaded)**



**d) Sound skips.
(Time display fails to advance properly)**



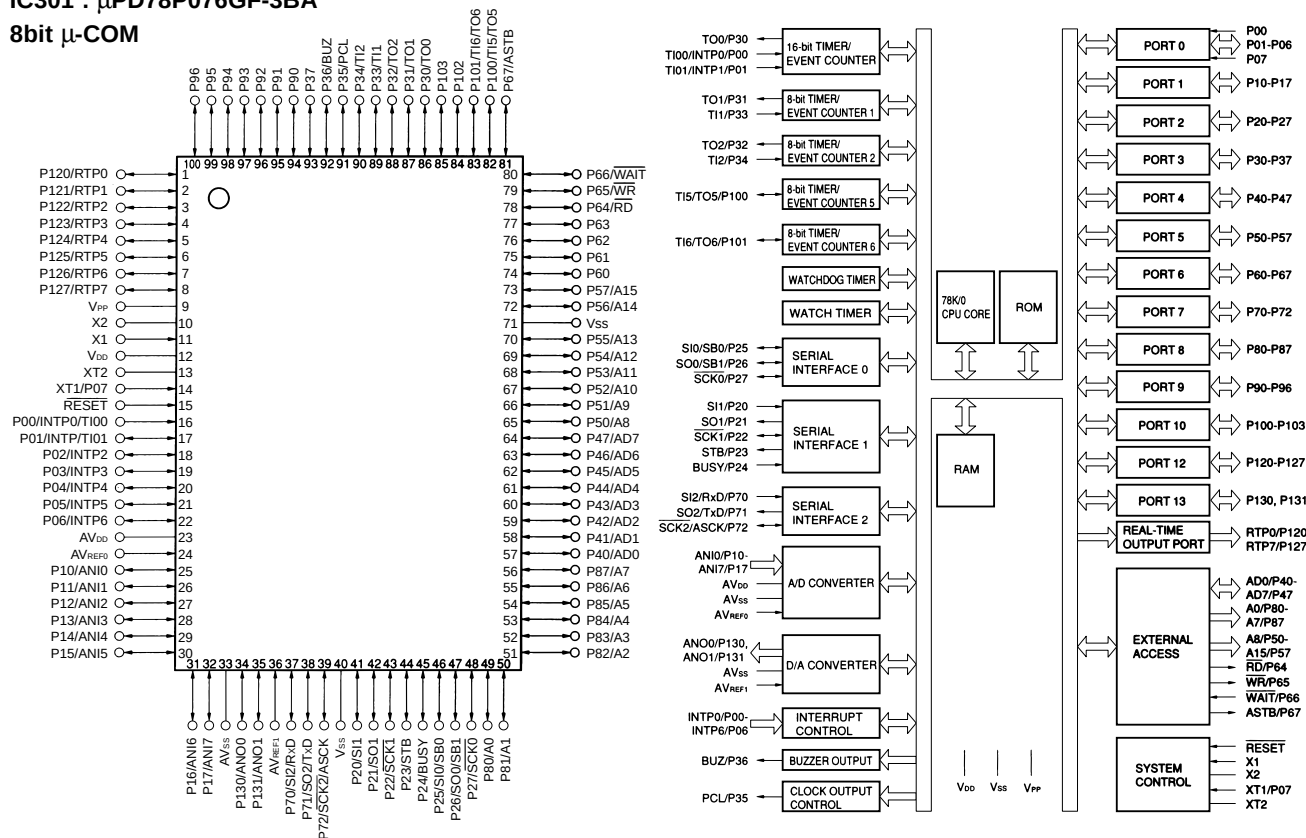
**e) No search provided.
(Sound skipped after search)**



IC DATA

IC301 : μ PD78P076GF-3BA

8bit μ -COM



No.	Port	Name	I/O	Function
1	P120/RTP0	OPSW	I	Opened state of tray sensing switch input. Opened state at "L".
2	P121/RTP1	CLSW	I	Closed state of tray sensing switch input. Closed state at "L".
3	P122/RTP2	TBL POS	I	Table position detect signal input.
4	P123/RTP3	MUTE	O	Sound output at "H" and sound output muted at "L".
5	P124/RTP4	RES	O	Hardware reset output of MN35511. Reset at "L".
6	P125/RTP5	DMUTE	O	Mute output to MN35511. Muted at "H".
7	P126/RTP6	TLOCK	I	Tracking servo drawing signal input from MN35511. Drawn at "L".
8	P127/RTP7	FLOCK	I	Focus servo drawing signal input from MN35511. Drawn at "L".
9	IC	IC		GND
10	X2	X2		Ceramic oscillator. (5MHz)
11	X1	X1		
12	VDD	VDD		
13	XT2	XT2		N.C.
14	XT1/P07	XT1		GND
15	RESET	RESET	I	Reset input.
16	P00/INTP0/T100	REM	I	Input from remote control receiving unit.
17	P01/INTP1/T101	BLKCK	I	Sub code, block clock input from MN35511.
18	P02/INTP2			N.C.
19	P03/INTP3	DOWNSW	I	PU unit down limit switch input. DOWN at "L".
20	P04/INTP4	UPSW	I	PU unit up limit switch input. UP at "L".
21	P05/INTP5	FLSW	I	Feed origin switch input. Feed origin at "L".
22	P06/INTP6	CLDCK	I	MN35511 subcode frame clock
23	AVDD	AVDD		+5V
24	AVREF0	AVREF0		+5V
25	P10/ANI0	PON	I	Power ON/OFF detect
26	P11/ANI1			N.C.
27	P12/ANI2			N.C.

IC301 : μ PD78P076GF-3BA8bit μ -COM

No.	Port	Name	I/O	Function
28	P13/ANI3			N.C.
29	P14/ANI4		I/O	EEPROM
30	P15/ANI5		O	EEPROM CLOCK
31	P16/ANI6			] N.C.
32	P17/ANI7			
33	AVSS	AVSS		GND
34	P130/ANO0			N.C.
35	P131/ANO1	GCTRL	O	AN8849 gain control.
36	AVREF1			+5V
37	P70/S12/RXD	SUBQ	I	Serial I/F input (SUBQ)
38	P71/SO2/TXD	STAT	I	Status signal input from MN35511.
39	P72/SCK2/ASCK	SQCK	O	Serial I/F clock (SQCK)
40	VSS	VSS		GND
41	P20/SI1	SUBC	I	Serial I/F input (CD TEXT)
42	P21/SO1			N.C.
43	P22/SCK1	SBCK2	O	Serial I/F clock (CD TEXT)
44	P23/STB	MLD	O	MN35511 chip select
45	P24/BUSY	SENSE	I	MN35511 sense input
46	P25/SI0/SB0			N.C.
47	P26/SO0/SB1	MDATA	O	Serial I/F output (MDATA/FL driver/EEPROM)
48	P27/SCK0	MCLK	O	Serial I/F clock (MCLK/FL driver/EEPROM)
49	P80/A0	CS	O	EEPROM chip select
50	P81/A1	CE	O	FL driver chip select
51	P82/A2	BLK	O	FL driver reset
52	P83/A3			N.C.
53	P84/A4			N.C.
54	P85/A5	FEED OFF	O	Feed servo off signal output.
55	P86/A6			] N.C.
56	P87/A7			
57	P40/AD0			
58	P41/AD1			
59	P42/AD2			
60	P43/AD3			
61	P44/AD4			
62	P45/AD5			
63	P46/AD6			
64	P47/AD7			
65	P50/A8	KD4	O	] Key scan
66	P51/A9	KD3	O	
67	P52/A10	KD2	O	
68	P53/A11	KD1	O	
69	P54/A12	KD0	O	
70	P55/A13			N.C.
71	VSS	VSS		GND
72	P56/A14			N.C.
73	P57/A15			N.C.
74	P60	K4	I	] Key detect
75	P61	K3	I	
76	P62	K2	I	
77	P63	K1	I	
78	P64/RD	K0	I	
79	P65/WR			N.C.
80	P66/WAIT			N.C.

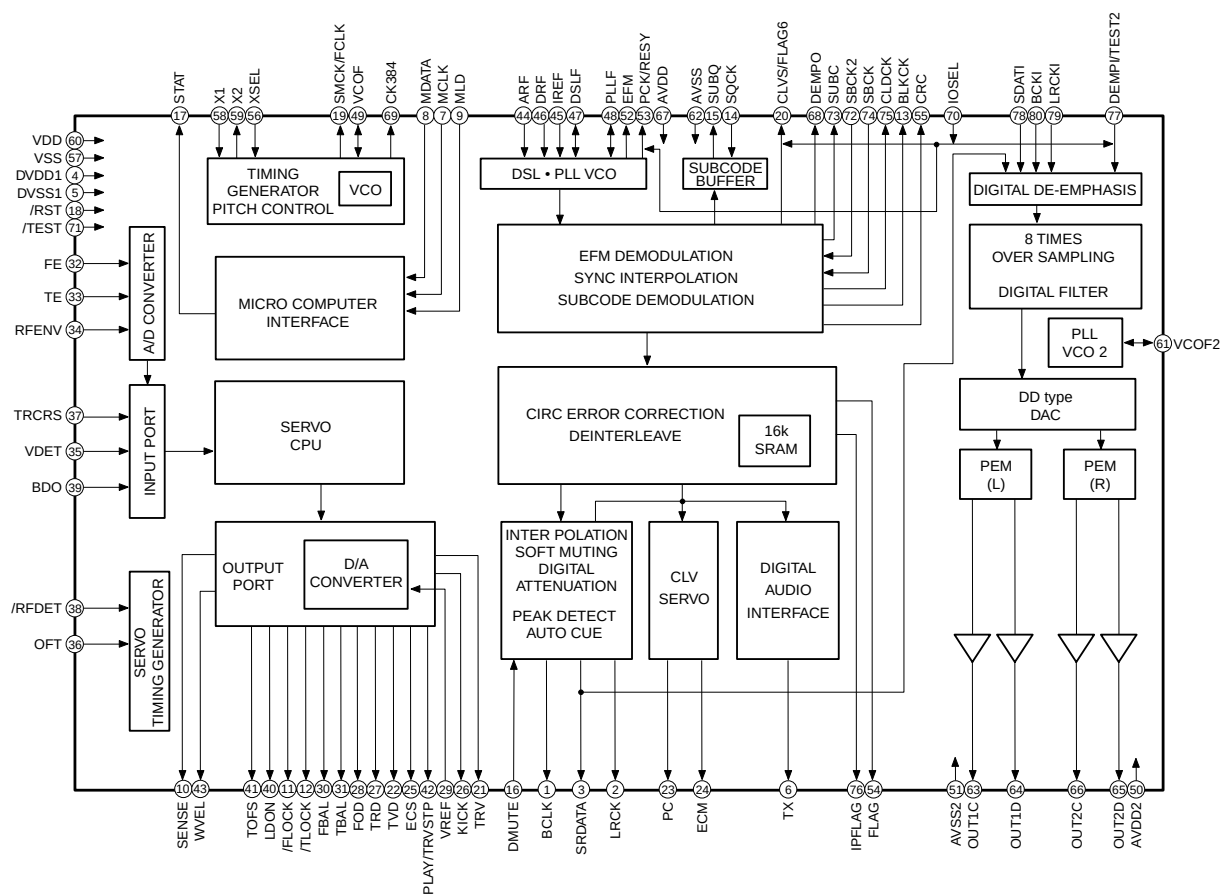
IC301 : μ PD78P076GF-3BA

8bit μ -COM

No.	Port	Name	I/O	Function
81	P67/ASTB			N.C.
82	P100/TI5/TO5	TBL-L	O	Table counterclockwise rotate signal output.
83	P101/TI6/TO6	TBL-R	O	Table clockwise rotate signal output.
84	P102			N.C.
85	P103			N.C.
86	P30/TO0	CLOSE	O	Tray close signal output.
87	P31/TO1	OPEN	O	Tray open signal output.
88	P32/TO2	CL-DOWN	O	Clamp down signal output.
89	P33/TI1	CL-UP	O	Clamp up signal output.
90	P34/TI2			N.C.
91	P35/PCL			N.C.
92	P36/BUZ			N.C.
93	P37	STAN	O	M56748 standby control
94	P90		I	Model detect 1 (775 : "H")
95	P91		I	Model detect 2 (775 : "H")
96	P92		O	Monitor 1
97	P93		O	Monitor 2
98	P94		O	Monitor 3
99	P95		O	Monitor 4
100	P96		O	Monitor (error)

IC3 : MN35511AL

Signal Processor & Controller



IC3 : MN35511AL**Signal Processor & Controller**

Pin No.	Name	I/O	Function
1	BCLK	O	Bit clock output for SR DATA
2	LRCK	O	L/R identification signal output
3	SRDATA	O	Serial data output
4	DVDD1	I	Power supply for digital circuit (+5)
5	DVSS1	I	GND for digital circuit
6	TX	O	Digital, audio, interface output signal
7	MCLK	I	Microprocessor command clock signal input (data latched at leading edge)
8	MDATA	I	Microprocessor command data input
9	MLD	I	Microprocessor command load signal input (L : LOAD)
10	SENSE	O	Sense signal output (OFT, FESL, NACEND, NAJEND, SFG, NWTEND)
11	FLOCK	O	Focus servo drawing signal (L : when drawn)
12	TLOCK	O	Tracking servo drawing signal (L : when drawn)
13	BLKCK	O	Sub code block clock signal (BLKCK=75Hz)
14	SQCK	I	Clock input for sub-code Q register
15	SUBQ	O	Sub-code Q code output
16	DMUTE	I	Muting input (H : MUTE)
17	STAT	O	Status signal (CRC, STCNT, CLVS, TTSTOP, SQOK, RESY, FCLV, FLAG6, SENSE, /FLOCK, /RFDET, /TLOCK)
18	RST	I	Reset input (L : RESET)
19	SMCK/ FCLK	O	4.2336MHz clock signal output SMCK when command is defaulted. (Note 1) (NC) SMCK (8.4672MHz), FCLK (7.35kHz) or "L" fixed is selected when command is switched.
20	CLVS/ FLAG6	O	With command defaulted : CLVS when IOSEL=H, FLAG6 when IOSEL=L (NC) These settings can be reversed by command (FLAG6 when IOSEL=H).
21	TRV	O	Traverse (Feed) forced feed output 3-State
22	TVD	O	Traverse (Feed) drive output
23	PC	O	Spindle motor ON signal L : ON (default) (NC)
24	ECM	O	Spindle motor drive signal (forced mode output) 3-State
25	ECS	O	Spindle motor drive signal (servo error signal output)
26	KICK	O	Kick pulse output 3-State
27	TRD	O	Tracking drive output
28	FOD	O	Focus drive output
29	VREF	I	Reference voltage for DA output block (TVD, ECS, TRD, FOD, FBAL, TBAL)
30	FBAL	O	Focus balance adjustment output
31	TBAL	O	Tracking balance adjustment output
32	FE	I	Focus error signal input (analog input)
33	TE	I	Tracking error signal input (analog input)
34	RFENV	I	RF envelope signal input (analog input)
35	VDET	I	Oscillation detect signal input (H : DETECT)
36	OFT	I	Off track signal input (H : OFF TRACK)
37	TRCRS	I	Track cross signal input (analog input)
38	RFDET	I	RF detect signal input (L : DETECT)
39	BDO	I	Drop out signal input (H : DROP OUT)
40	LDON	O	Laser ON signal output (H : ON)
41	TOFS	O	Tracking offset adjustment output (NC)
42	PLAY/TRVSTOP	O	Switched by command. PLAY (Play signal output) when command is defaulted. (NC)
43	WVEL	O	Double speed status signal output (H : double speed) (NC)
44	ARF	I	RF signal input
45	IREF	I	Reference current input terminal
46	DRF	I	Bias terminal for DSL

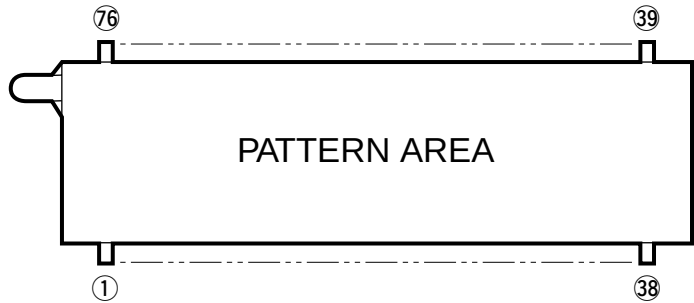
(Note 1) At the SMCK/FCLK pin, output does not stop while /RST=L.

IC3 : MN35511AL
Signal Processor & Controller

Pin No.	Name	I/O	Function
47	DSL F	I/O	Loop filter terminal for DSL
48	PLL F	I/O	Loop filter terminal for PLL
49	VCO F	I/O	Loop filter terminal for VCO (+5)
50	AVDD2	I	Power supply for analog circuit (for AD of DSL, PLL, DA output blocks) (+5)
51	AVSS2	I	GND for analog circuit (for AD of DSL, PLL, DA output blocks) (GND)
52	EFM	O	EFM signal output (NC)
53	PCK/ RESY	O	With command defaulted : PLL extract clock output PCK when IOSEL=H, frame re-synchronous signal RESY when IOSEL=L These settings can be reversed by command (RESY when IOSEL=H). (NC)
54	FLAG	O	Flag signal output (NC)
55	CRC	O	Sub-code CRC check result output (H : OK, L : NG) (NC)
56	XSEL	I	L : Normal mode (GND) H : • For internal master clock, VCO2 output clock for jitter adsorbing PLL is used instead of Xtal oscillation output (X2). • VCO2 is always fixed to oscillation mode regardless of VCO2 oscillation stop command or resetting (/RST=L) and Xtal oscillation is stopped.
57	VSS	I	GND for oscillation circuit
58	X1	I	Crystal oscillation circuit input terminal
59	X2	O	Crystal oscillation circuit output terminal
60	VDD	I	Power supply for oscillation circuit (+5)
61	VCO F2	O	PLL loop filter terminal for jitter adsorption (GND)
62	AVSS1	O	GND for audio DAC
63	OUT1C	O	PEM output terminal 1C (NC)
64	OUT1D	O	PEM output terminal 1D (NC)
65	OUT2D	O	PEM output terminal 2D (NC)
66	OUT2C	O	PEM output terminal 2C (NC)
67	AVDD1	I	Power supply terminal for audio DAC
68	DEMPO	O	Deemphasis detect signal output
69	CK384	O	384fs clock output (At the CK384 pin, output does not stop while /RST=L.) (NC) Xtal system when command is defaulted. Signal processing system when command is switched
70	IOSEL	I	Mode selecting terminal (+5)
71	TEST	I	Test mode setting terminal (Normal : H) (+5)
72	SBCK2	I	Sub-code data read clock input
73	SUBC	O	Sub-code serial output (SBCK effective) when command is defaulted. PACK data usable (SBCK2 effective) when command is switched
74	SBCK	I	Clock input for sub-code serial output (with pull-up resistor) (NC)
75	CLDCK	O	Sub-code frame clock signal output when command is defaulted (fCLDCK=7.35kHz) PACK synchronous signal when command is switched
76	IPFLAG	O	Interpolation flag signal output (H : INTERPOLATION) (NC)
77	DEMPI /TEST2	I	When IOSEL=H, L : NORMAL H : TEST2 (GND) Emphasis control in accordance with DEMPO When IOSEL=L, external DEMP1 input terminal For emphasis control, DEMPO, OR of DEMP1, DEMP1, forced OFF or forced ON is selected by command. When command is defaulted, DEMPO and OR of DEMP1
78	SDATI	I	SRDATA input (effective only when IOSEL=L) (NC)
79	LRCKI	I	LRCK input (effective only when IOSEL=L) H : Lch data, L : Rch data (NC)
80	BCKI	I	BCK input (effective only when IOSEL=L) (NC)

■ DISPLAY DATA (V3008400)

● V300 : 15-ST-20G



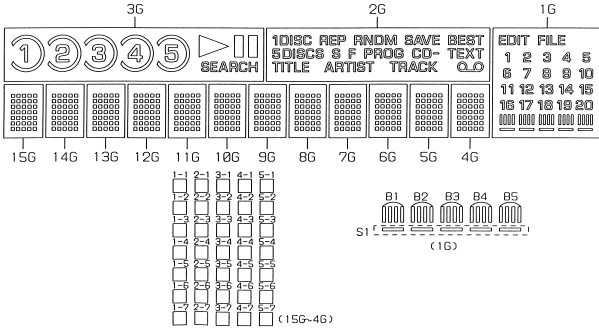
• PIN CONNECTION

PIN NO.	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	3
CONNECTION	F	F	N	N	I	P	P	P	P	P	P	P	P	P	P	P	P	X	X	X	X	X	C	G	G	G	G	G	G	G	G	G	G	G	G	G

PIN NO.	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
CONNECTION	F	F	N	N	5	4	3	2	1	0	9	8	7	6	5	4	3	N	N	N	N	I	2	1	3	3	3	3	3	3	2	2	2	2	N	N	F

- NOTE 1) F1, F2 Filament
2) NP No pin
3) NX No extend pin
- 4) P1~P18 Datum Line
5) 1G~15G Grid
6) IC Internal connection

• GRID ASSIGNMENT



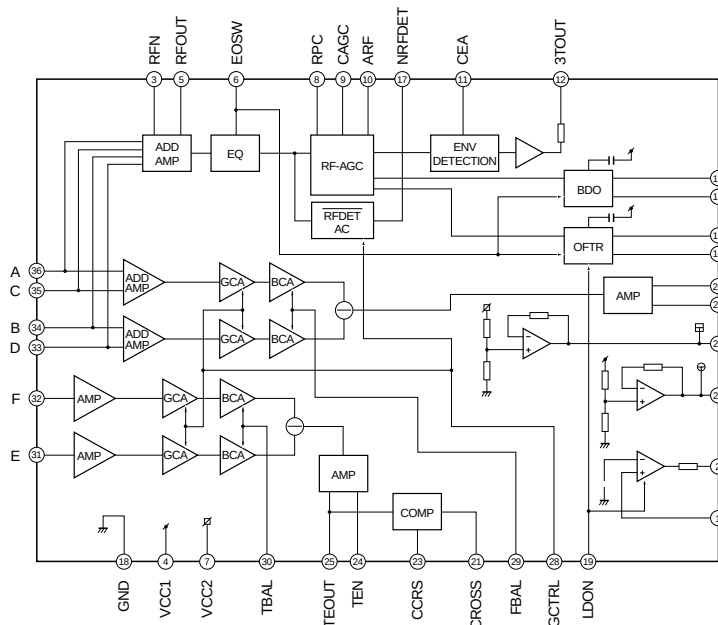
• ANODE CONNECTION

	15G-4G	3G	2G	1G
P1	1-1	1	TITLE	1
P2	2-1	(1) 2	ARTIST	2
P3	3-1	2	TRACK	3
P4	4-1	(2) 3	5DISCS	4
P5	5-1	3	S	5
P6	1-2	(3) 4	F	6
P7	2-2	4	PROG	7
P8	3-2	(4) 5	CD-	8
P9	4-2	5	TEXT	9
P10	5-2	(5) 6	10DISC	10
P11	1-3	SEARCH	11	11
P12	2-3	▶	REP	12
P13	3-3		ANOM	13
P14	4-3	-	SAVE	14
P15	5-3	-	BEST	15
P16	1-4	-	-	16
P17	2-4	-	-	17
P18	3-4	-	-	18

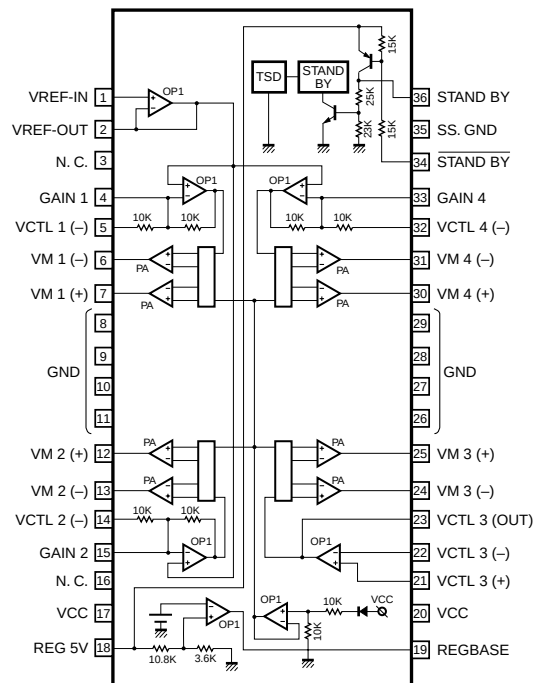
	15G-4G	3G	2G	1G
P19	4-4	-	-	19
P20	5-4	-	-	20
P21	1-5	-	-	EDIT
P22	2-5	-	-	FILE
P23	3-5	-	-	B1
P24	4-5	-	-	B2
P25	5-5	-	-	B3
P26	1-6	-	-	B4
P27	2-6	-	-	B5
P28	3-6	-	-	S1
P29	4-6	-	-	-
P30	5-6	-	-	-
P31	1-7	-	-	-
P32	2-7	-	-	-
P33	3-7	-	-	-
P34	4-7	-	-	-
P35	5-7	-	-	-

IC BLOCKS

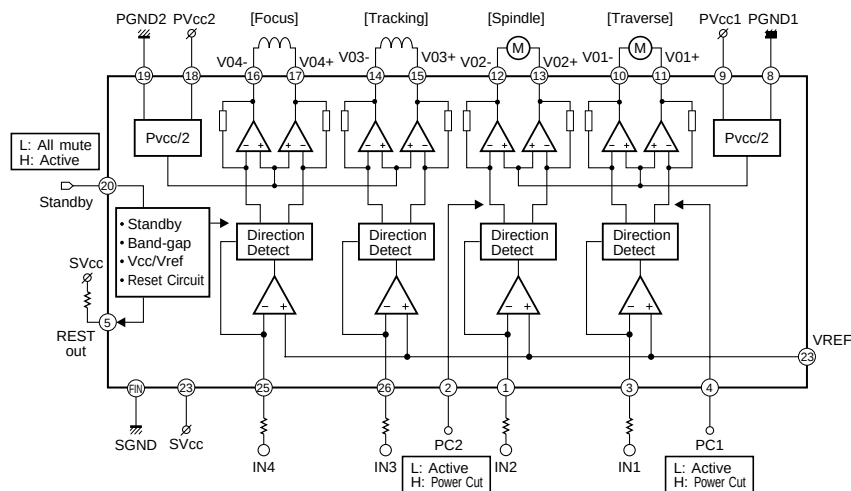
IC1 : AN8882SB Digital Servo Head Amp



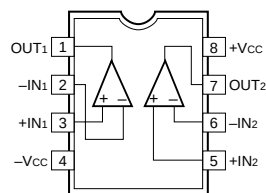
IC2 : AN4801SB 4-Channel BTL Driver



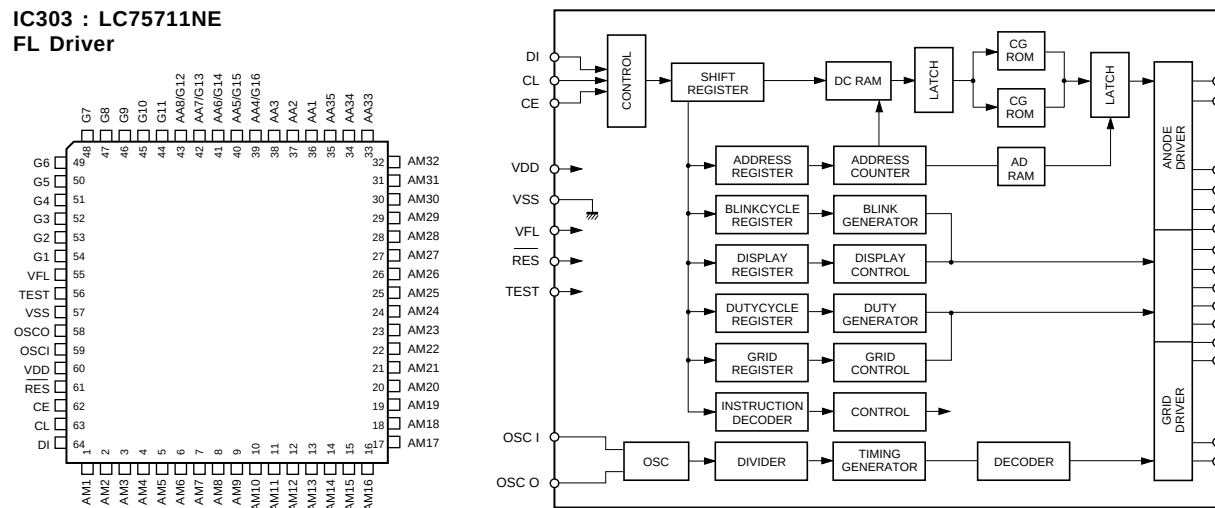
IC2 : AN4801SB CD Driver



IC101, 102 : NJM2068D-D IC105 : BA15218 Dual Op-Amp

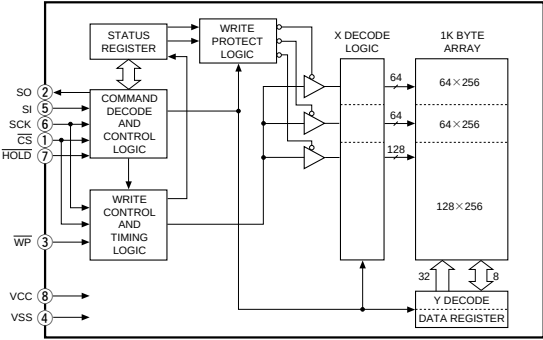


IC303 : LC75711NE FL Driver

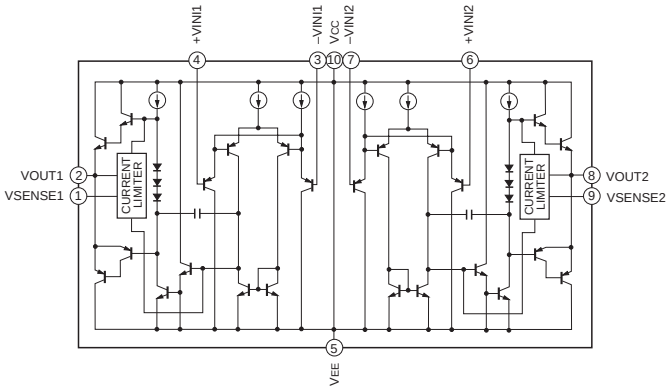


PIN CONNECTION DIAGRAM

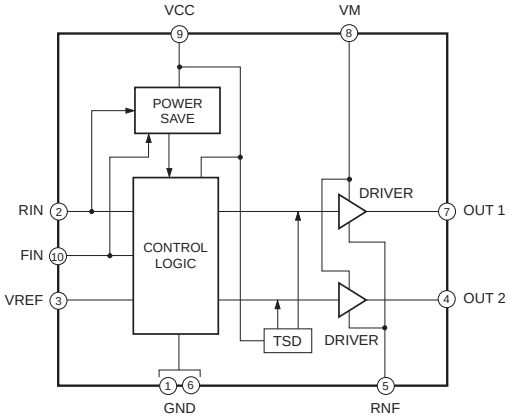
IC302 : S-24C01ADP
Electrically Erasable PROM



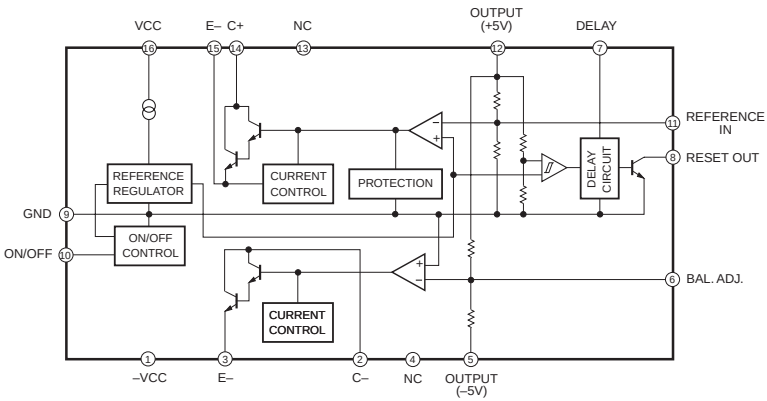
IC401 : LA6510
Dual Power Operational Amp



IC400 : BA6286
Motor Driver



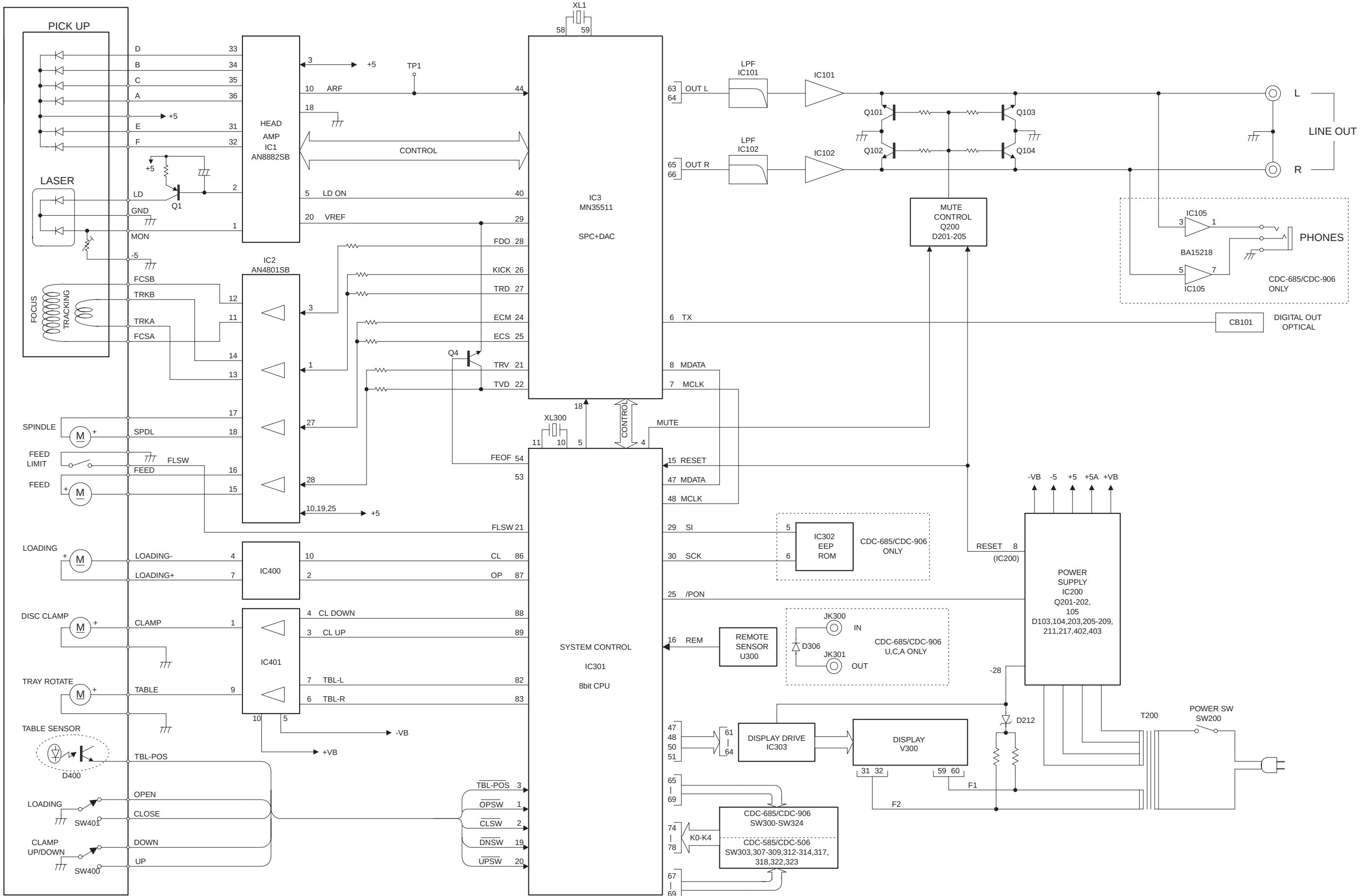
IC200 : M5290P
Constant-Voltage Tracking Supply with Reset



Other ICs
● IC301 : μPD78P078GF-3BA → See page 19
● IC3 : MN35511 → See page 21

1SS133 1N4002S MTZJ5.1B MTZJ5.6B MTZJ7.5C MTZJ9.1C MTZJ30.0B	2SA933S (Q,R) 2SC1740S (R,S) 2SD1915F (S,T)	2SB544 (E,F,G) 2SC2878 (A, B) 2SD400 (E, F)	2SA1708(S,T) 2SC4488(S,T)	22SB1565 (E, F) 2SD2394 (E, F)	MN35511
NJM7909F	NJM2068D-D NJM5532D	BA15218 X25642P	M5290P	YAC514	μPD78P078GF-3BA
LA6510	BA6286	AN8849SB M56748FP	LC75711NE		
AN4801SB					

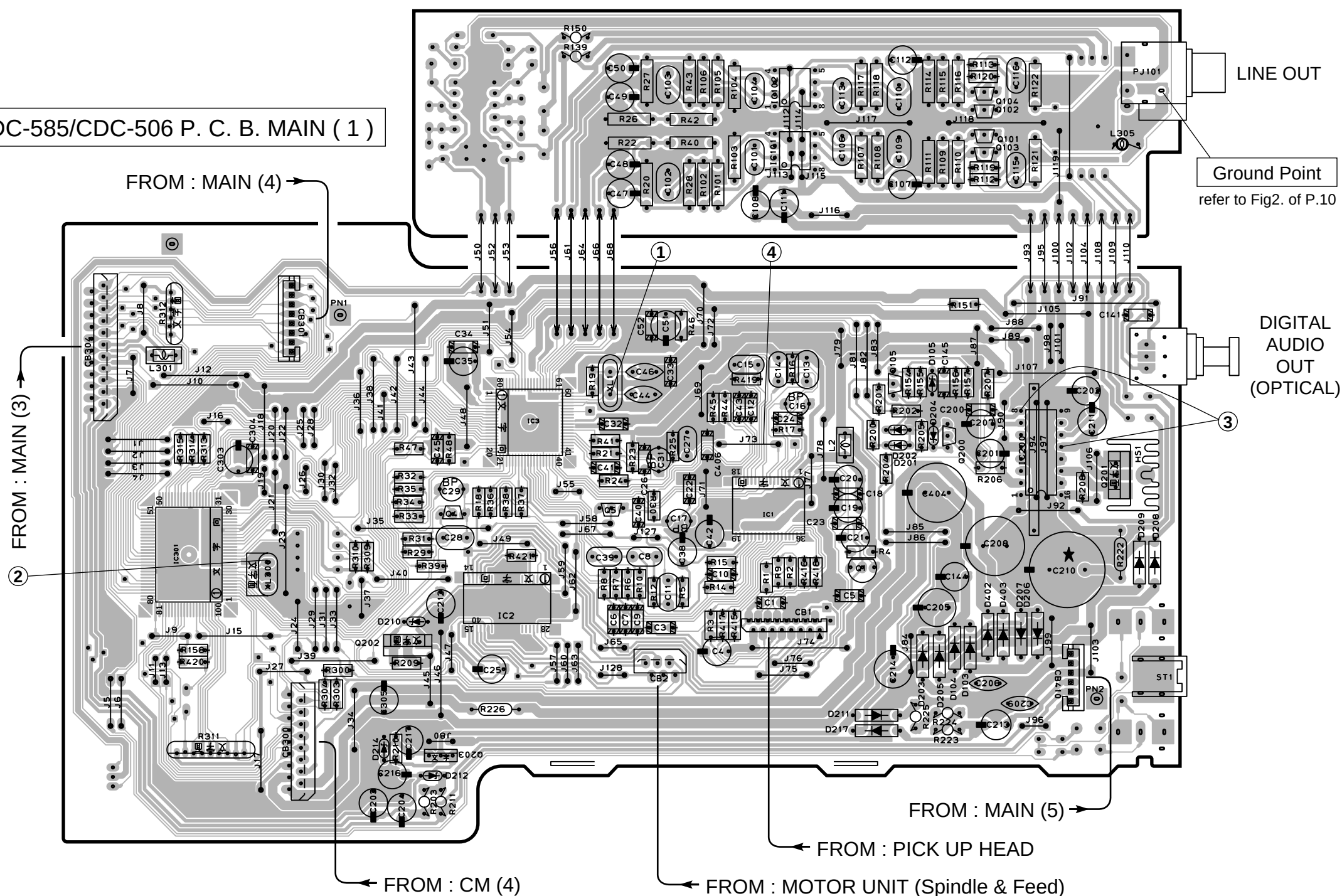
■ BLOCK DIAGRAM



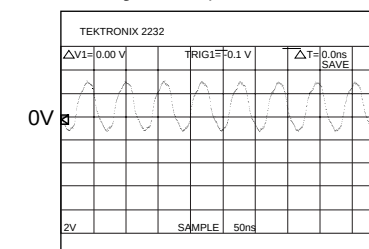
PRINTED CIRCUIT BOARD (Foil side)

CDC-585/CDC-506 P. C. B. MAIN (2)

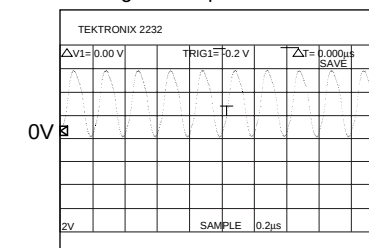
CDC-585/CDC-506 P. C. B. MAIN (1)



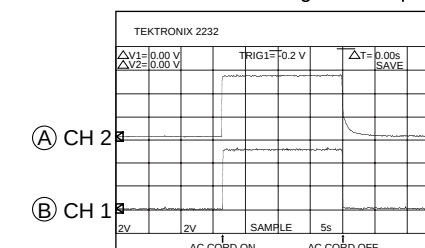
Point ① (Pin 59 of IC3)
 V : 2V/div H : 50nsec/div
 DC range 1 : 1 probe



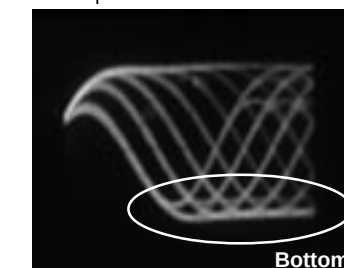
Point ② (Pin 10 of IC301)
 V : 2V/div H : 0.2μsec/div
 DC range 1 : 1 probe



Point ③
 (CH1 : Pin 8 of IC200)
 (CH2 : Pin 12 of IC200)
 V : 2V/div (CH 1) V : 2V/div (CH 2)
 H : 5sec/div DC range 1 : 1 probe



Point ④
Test disc
 SONY YEDS-18 (P/No. TX911730),
 A-BEX TCD-782 (P/No. TX913350)
 or Philips 5 : x 1

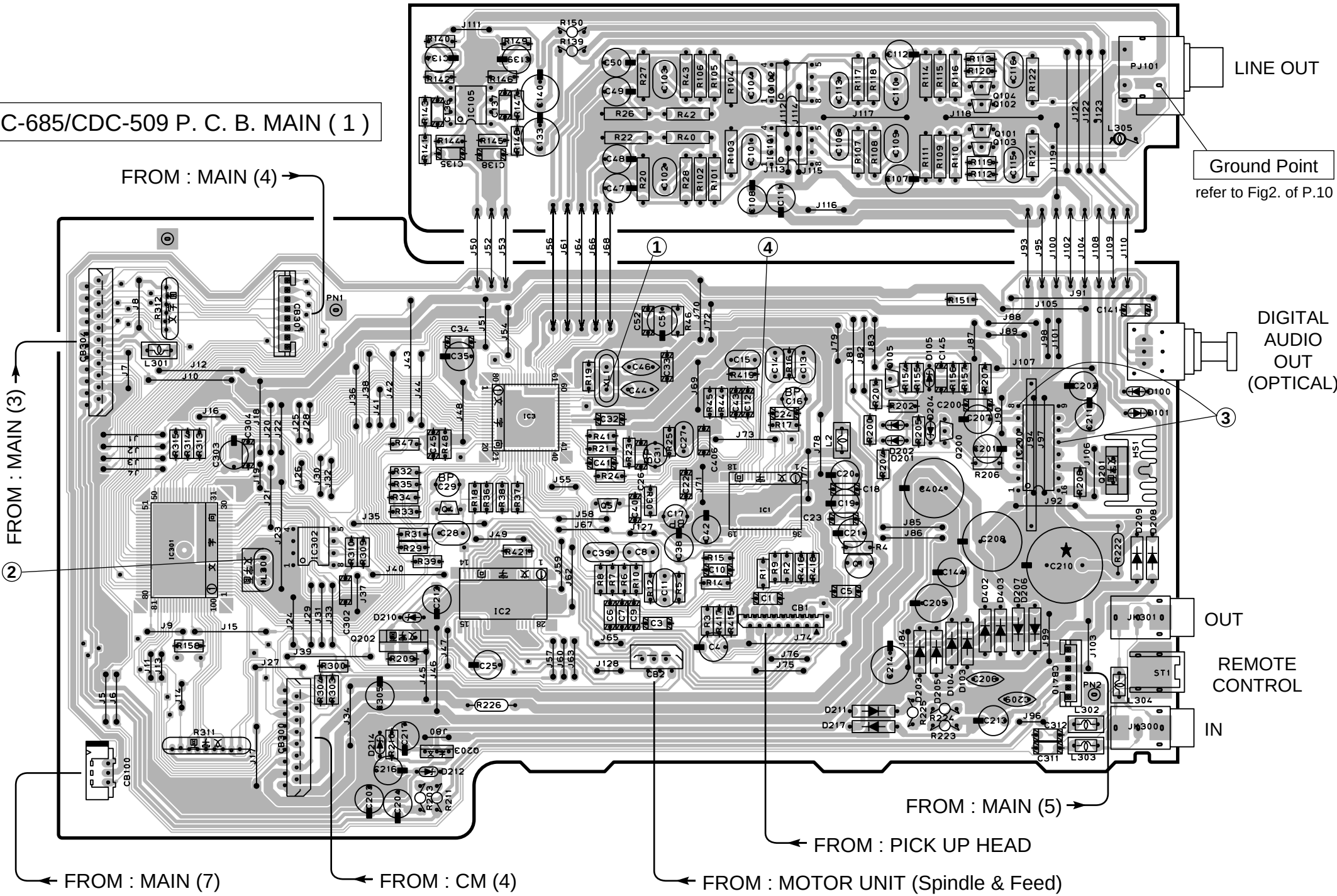


V : 0.2V/div H : 0.5μsec/div
 AC range 1 : 1 probe

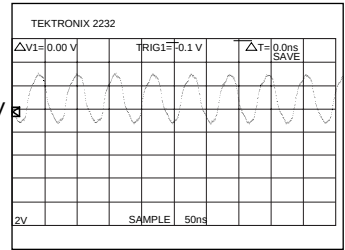
PRINTED CIRCUIT BOARD (Foil side)

CDC-685/CDC-509 P. C. B. MAIN (2)

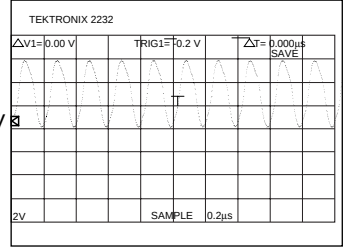
CDC-685/CDC-509 P. C. B. MAIN (1)



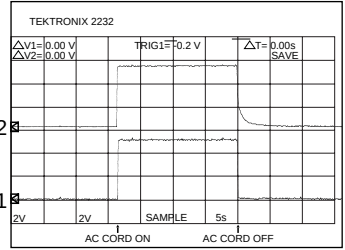
Point ① (Pin 59 of IC3)
V : 2V/div H : 50nsec/div
DC range 1 : 1 probe



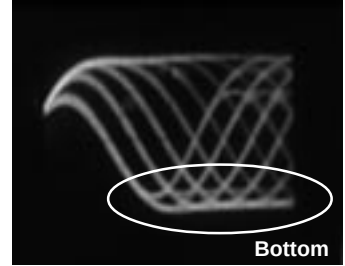
Point ② (Pin 10 of IC301)
V : 2V/div H : 0.2μsec/div
DC range 1 : 1 probe



Point ③
[CH1 : Pin 8 of IC200]
[CH2 : Pin 12 of IC200]
V : 2V/div (CH 1) V : 2V/div (CH 2)
H : 5sec/div DC range 1 : 1 probe

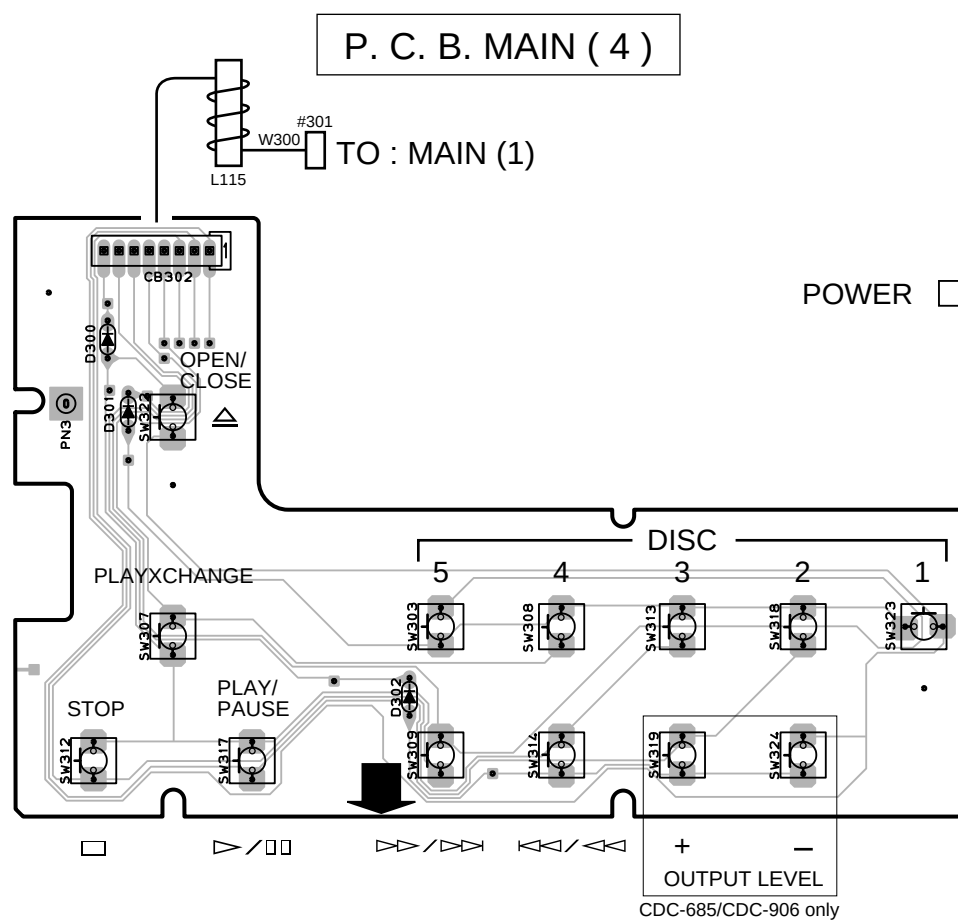
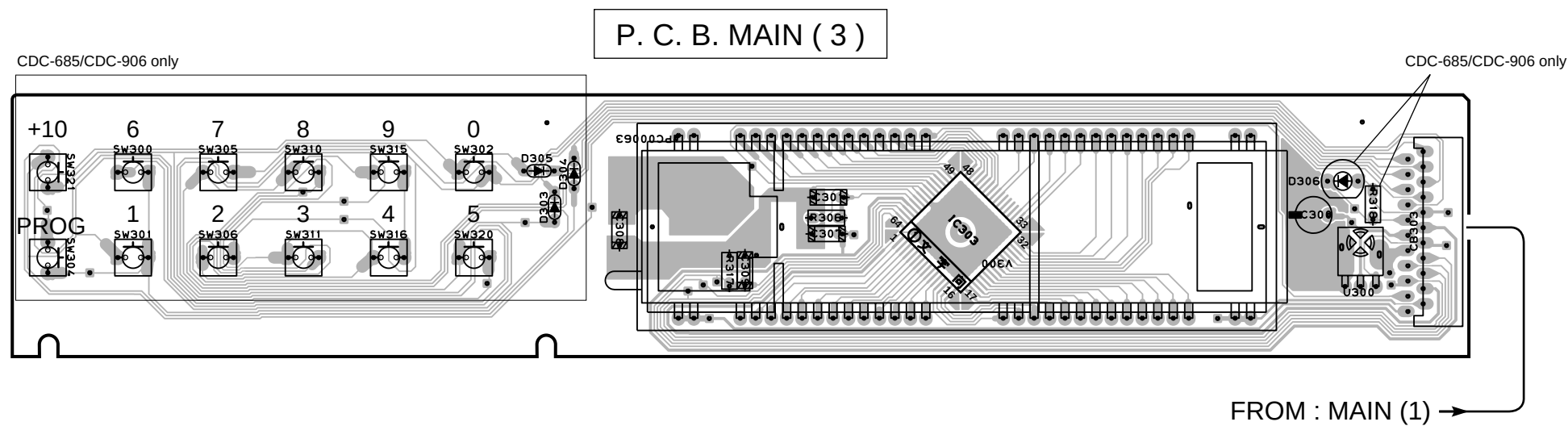


Point ④
Test disc
SONY YEDS-18 (P/No. TX911730),
A-BEX TCD-782 (P/No. TX913350)
or Philips 5 : x 1

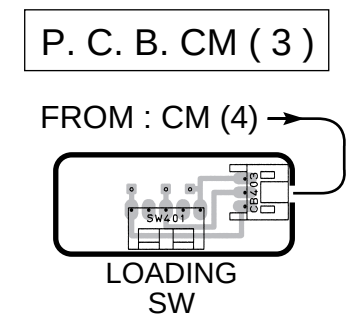
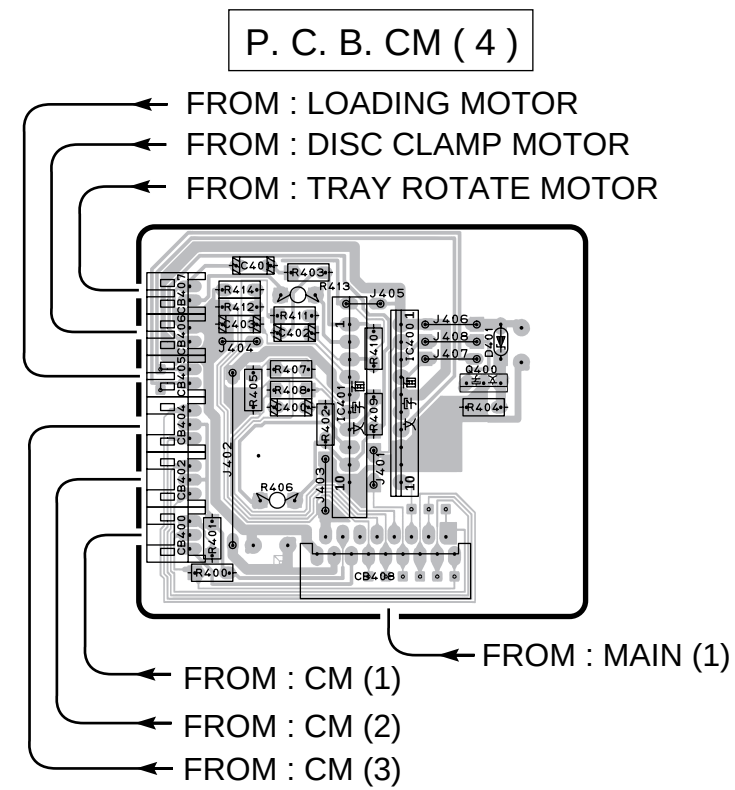
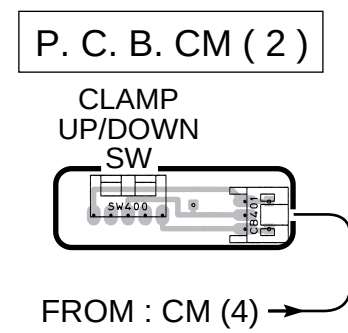
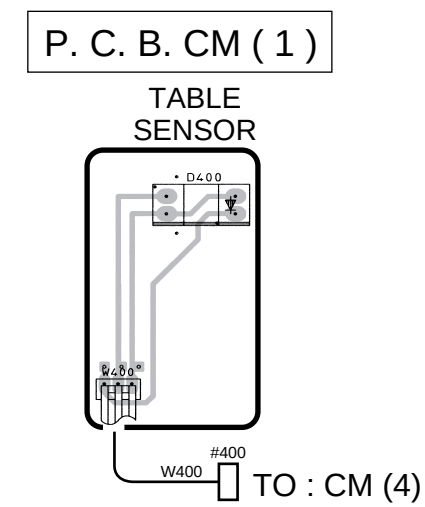
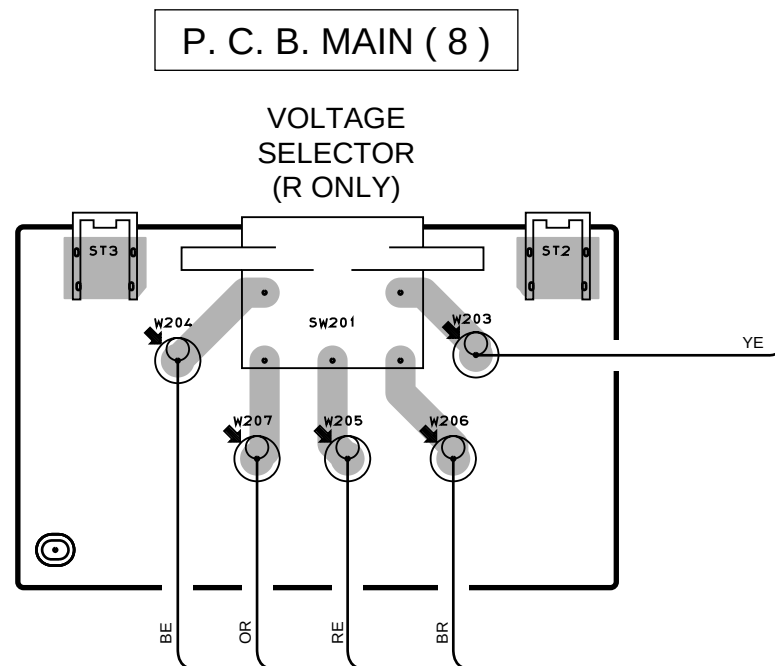
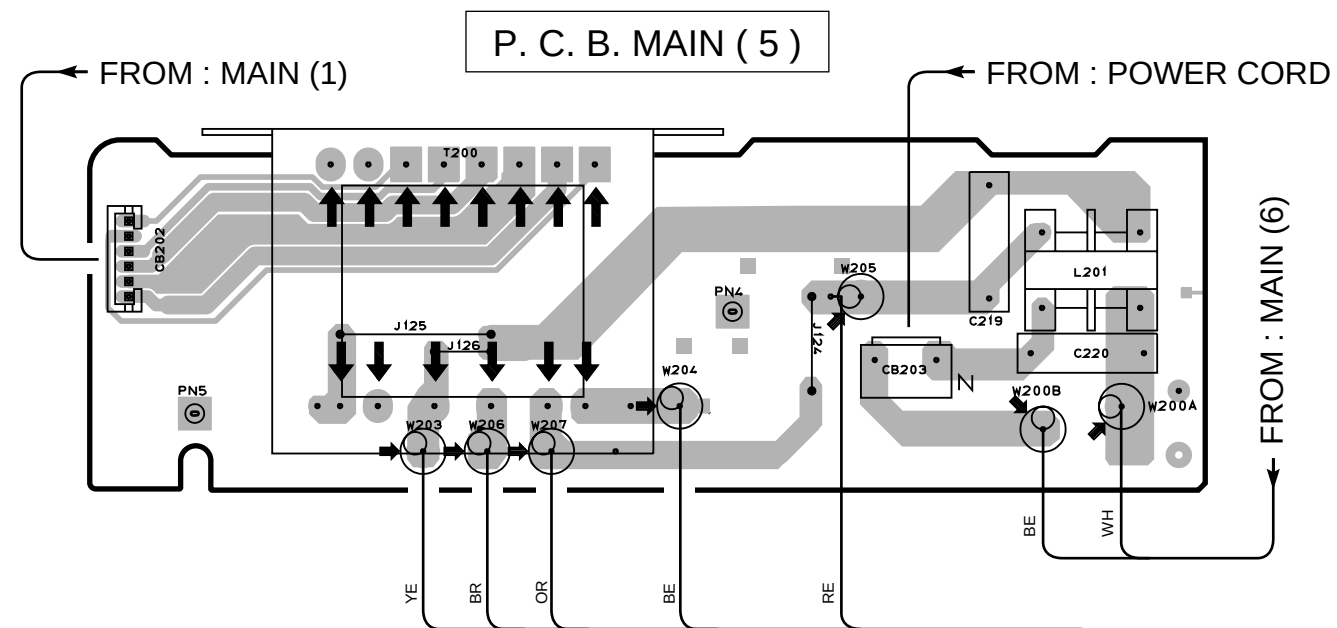


V : 0.2V/div H : 0.5μsec/div
AC range 1 : 1 probe

■ PRINTED CIRCUIT BOARD (Foil side)

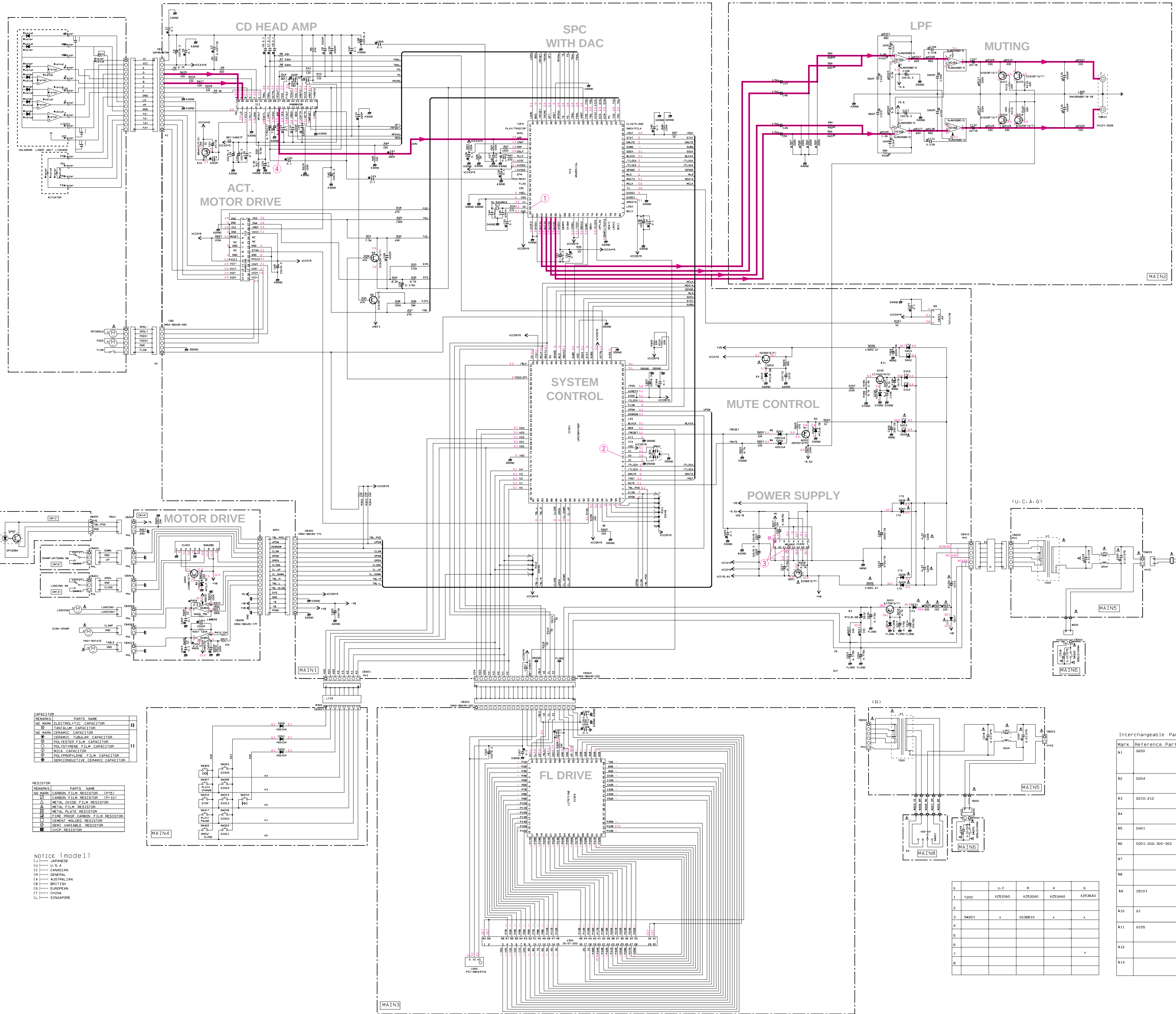


■ PRINTED CIRCUIT BOARD (Foil side)

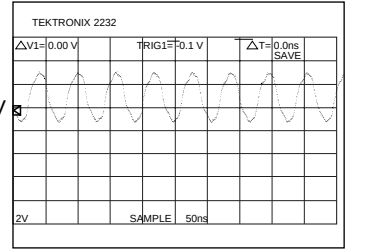


■ CDC-585/CDC-506 SCHEMATIC DIAGRAM

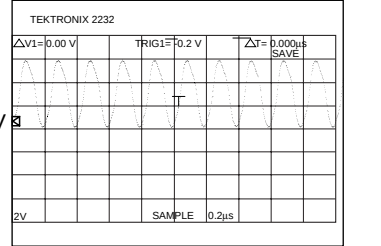
CDC-585/CDC-506/CDC-685/CDC-906



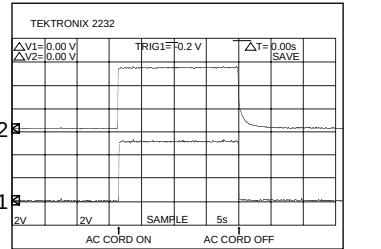
Point ① (Pin 59 of IC3)
V : 2V/div H : 50nsec/div
DC range 1 : 1 probe



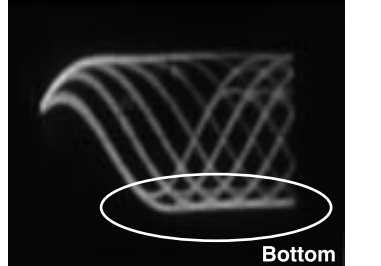
Point ② (Pin 10 of IC301)
V : 2V/div H : 0.2μsec/div
DC range 1 : 1 probe



Point ③
CH1 : Pin 8 of IC200
CH2 : Pin 12 of IC200
V : 2V/div (CH 1) V : 2V/div (CH 2)
H : 5sec/div DC range 1 : 1 probe



Point ④
Test disc
SONY YEDS-18 (P/No. TX911730),
A-BEX TCD-782 (P/No. TX913350)
or Philips 5 : x 1



V : 0.2V/div H : 0.5μsec/div
AC range 1 : 1 probe

CAPACITOR	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
○	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
○	CERAMIC TANTALUM CAPACITOR
○	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
○	MICA CAPACITOR
○	POLYPROPYLENE FILM CAPACITOR
○	SEMICONDUCTIVE CERAMIC CAPACITOR

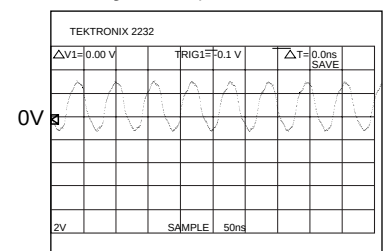
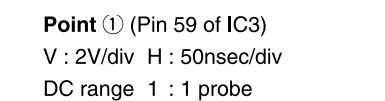
RESISTOR	PARTS NAME
NO MARK	CARBON FILM RESISTOR (P/No.)
○	CARBON FILM RESISTOR (P/No.)
○	METAL FILM RESISTOR
○	METAL FILM RESISTOR
○	FILM PROOF CARBON FILM RESISTOR
○	CONDUCTIVE CARBON FILM RESISTOR
○	SEMI VARIABLE RESISTOR
○	COIL RESISTOR

NOTICE (model)
(J) JAPANESE
(U) U.S.A.
(C) CANADIAN
(G) GENERAL
(A) AUSTRALIAN
(B) BRITISH
(E) EUROPEAN
(T) CHINA
(L) SINGAPORE

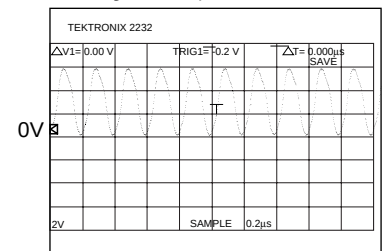
Mark	Reference Parts Number	Parts Name
K1	Q200	2SA9381G/P/1 2SA1151G/P/1 2SA132941G/P/51
K2	Q204	WT2J5-18 H25C1
K3	D216-212	WT2J5-6B H256A3
K4	D401	WT2J7-5C H257C2
K6	D201-202-300-302	H55104 H55123 H55125
K7		
K8		
K9	CS101	TOT147B TOT147BA SP17
K10	Q1	2SC641E/P/1 2SA9341E/P/41
K11	Q105	2SC174018/P/1 2SC16033E/P/1 2SC130141G/P/51
K12		
K13		

3	U-C	R	A	G
1	T200	X253340	X253240	X253440
2				
3	QK01	X	V538810	X
4				
5				
6				
7				
8				

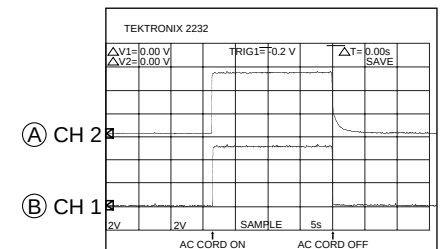
* All voltage are measured with a 10MΩ/V DC electric volt meter.
* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.



Point ② (Pin 10 of IC301)
V : 2V/div H : 0.2μsec/div
DC range 1 : 1 probe



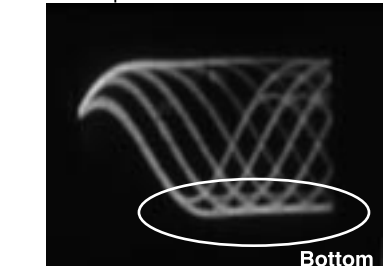
Point ③
 [CH1: Pin 8 of IC200]
 [CH2: Pin 12 of IC200]
 V: 2V/div (CH 1) V: 2V/div (CH 2)
 H: 5sec/div DC range 1:1 probe



Point ④

Test disc

SONY YEDS-18 (P/No. TX911730),
A-BEX TCD-782 (P/No. TX913350)
or Philips 5 : × 1



V : 0.2V/div H : 0.5μsec/div
AC range 1 : 1 probe

Interchangeable Parts at Manufacture Stage		
Mark	Reference Parts Number	Parts Name
k1	D200	25A93301(G/R/1)
		25A11510(E/F/1)
		25A1309A1(G/R/5/1)
k3	D210-212	W72, 48 H255C1
		W72, 48 H255A3
k5	D401	W72, 50-5C H2572/2
		H55104 155113 155126
k6	CB101	101x178 101x178A GP/F/27
		25B9414(E/F/G/1)
		25A9341(G/R/5/1)
k11	G105	25C174051(R/5/1)
		25C26031(E/F/1)
		25C33141(G/R/5/1)
k12	IC105	B41501B M5218AP

5		U-C	R	A	G
1	T200	XZ5340	XZ5340	XZ5340	XZ5360
2	L302, L303 L304	VD47370		VD47370	
3	5K201	x	VD38B10	x	x
4	Q318	HF47710 10K	x	HF47710 10K	x
5	C311, C312	VJ59910		VJ59910	x
6	D306	V259820		V259820	
7	JK300-301	VJ72680	x	VJ72680	x
8					

PARTS LIST

■ ELECTRICAL PARTS

■ WARNING

Components having special characteristics are marked $\triangle$ 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 resistors, refer to last page.

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS :

C.A.EL.CHP	: CHIP ALUMI. ELECTROLYTIC CAP	L.EMIT	: LIGHT EMITTING MODULE
C.CE	: CERAMIC CAP	LED.DSPLY	: LED DISPLAY
C.CE.ARRAY	: CERAMIC CAP ARRAY	LED.INFRD	: LED, INFRARED
C.CE.CHP	: CHIP CERAMIC CAP	MODUL.RF	: MODULATOR, RF
C.CE.ML	: MULTILAYER CERAMIC CAP	PHOT.CPL	: PHOTO COUPLER
C.CE.M.CHP	: CHIP MULTILAYER CERAMIC CAP	PHOT.INTR	: PHOTO INTERRUPTER
C.CE.SAFTY	: RECOGNIZED CERAMIC CAP	PHOT.RFLCT	: PHOTO REFLECTOR
C.CE.TUBLR	: CERAMIC TUBULAR CAP	PIN.TEST	: PIN, TEST POINT
C.CE.SMI	: SEMI CONDUCTIVE CERAMIC CAP	PLST.RIVET	: PLASTIC RIVET
C.EL	: ELECTROLYTIC CAP	R.ARRAY	: RESISTOR ARRAY
C.MICA	: MICA CAP	R.CAR	: CARBON RESISTOR
C.ML.FLM	: MULTILAYER FILM CAP	R.CAR.CHP	: CHIP RESISTOR
C.MP	: METALLIZED PAPER CAP	R.CAR.FP	: FLAME PROOF CARBON RESISTOR
C.MYLAR	: MYLAR FILM CAP	R.FUS	: FUSABLE RESISTOR
C.MYLAR.ML	: MULTILAYER MYLAR FILM CAP	R.MTL.CHP	: CHIP METAL FILM RESISTOR
C.PAPER	: PAPER CAPACITOR	R.MTL.FLM	: METAL FILM RESISTOR
C.PLS	: POLYSTYRENE FILM CAP	R.MTL.OXD	: METAL OXIDE FILM RESISTOR
C.POL	: POLYESTER FILM CAP	R.MTL.PLAT	: METAL PLATE RESISTOR
C.POLY	: POLYETHYLENE FILM CAP	RSNR.CE	: CERAMIC RESONATOR
C.PP	: POLYPROPYLENE FILM CAP	RSNR.CRYS	: CRYSTAL RESONATOR
C.TNTL	: TANTALUM CAP	R.TW.CEM	: TWIN CEMENT FIXED RESISTOR
C.TNTL.CHP	: CHIP TANTALUM CAP	R.WW	: WIRE WOUND RESISTOR
C.TRIM	: TRIMMER CAP	SCR.BND.HD	: BIND HEAD B-TITE SCREW
CN	: CONNECTOR	SCR.BW.HD	: BW HEAD TAPPING SCREW
CN.BS.PIN	: CONNECTOR, BASE PIN	SCR.CUP	: CUP TITE SCREW
CN.CANNON	: CONNECTOR, CANNON	SCR.TERM	: SCREW TERMINAL
CN.DIN	: CONNECTOR, DIN	SCR.TR	: SCREW, TRANSISTOR
CN.FLAT	: CONNECTOR, FLAT CABLE	SUPRT.PCB	: SUPPORT, P.C.B.
CN.POST	: CONNECTOR, BASE POST	SURG.PRTCT	: SURGE PROTECTOR
COIL.MX.AM	: COIL, AM MIX	SW.TACT	: TACT SWITCH
COIL.AT.FM	: COIL, FM ANTENNA	SW.LEAF	: LEAF SWITCH
COIL.DT.FM	: COIL, FM DETECT	SW.LEVER	: LEVER SWITCH
COIL.MX.FM	: COIL, FM MIX	SW.MICRO	: MICRO SWITCH
COIL.OUTPT	: OUTPUT COIL	SW.PUSH	: PUSH SWITCH
DIOD.ARRAY	: DIODE ARRAY	SW.RT.ENC	: ROTARY ENCODER
DIODE.BRG	: DIODE BRIDGE	SW.RT.MTR	: ROTARY SWITCH WITH MOTOR
DIODE.CHP	: CHIP DIODE	SW.RT	: ROTARY SWITCH
DIODE.VAR	: VARACTOR DIODE	SW.SLIDE	: SLIDE SWITCH
DIOD.Z.CHP	: CHIP ZENER DIODE	TERM.SP	: SPEAKER TERMINAL
DIODE.ZENR	: ZENER DIODE	TERM.WRAP	: WRAPPING TERMINAL
DSCR.CE	: CERAMIC DISCRIMINATOR	THRMST.CHP	: CHIP THERMISTOR
FER.BEAD	: FERRITE BEADS	TR.CHP	: CHIP TRANSISTOR
FER.CORE	: FERRITE CORE	TR.DGT	: DIGITAL TRANSISTOR
FET.CHP	: CHIP FET	TR.DGT.CHP	: CHIP DIGITAL TRANSISTOR
FL.DSPLY	: FLUORESCENT DISPLAY	TRANS	: TRANSFORMER
FLTR.CE	: CERAMIC FILTER	TRANS.PULS	: PULSE TRANSFORMER
FLTR.COMB	: COMB FILTER MODULE	TRANS.PWR	: POWER TRANSFORMER ASS'y
FLTR.LC.RF	: LC FILTER ,EMI	TUNER.AM	: TUNER PACK, AM
GND.MTL	: GROUND PLATE	TUNER.FM	: TUNER PACK, FM
GND.TERM	: GROUND TERMINAL	TUNER.PK	: FRONT-END TUNER PACK
HOLDER.FUS	: FUSE HOLDER	VR	: ROTARY POTENTIOMETER
IC.PRTCT	: IC PROTECTOR	VR.MTR	: POTENTIOMETER WITH MOTOR
JUMPER.CN	: JUMPER CONNECTOR	VR.SW	: POTENTIOMETER WITH ROTARY SW
JUMPER.TST	: JUMPER, TEST POINT	VR.SLIDE	: SLIDE POTENTIOMETER
L.DTCT	: LIGHT DETECTING MODULE	VR.TRIM	: TRIMMER POTENTIOMETER

Note) Those parts marked with “#” are not included in the P.C.B. ass'y.

CDC-585/CDC-506 P.C.B. MAIN

Schm Ref.	PART NO.	Description
* * * *	V6745000	P.C.B. MAIN(UC)
	V6745300	P.C.B. MAIN(R)
	V6745400	P.C.B. MAIN(A)
	V6794000	P.C.B. MAIN(BG)
CB1	V2731000	CN.FMN 16P
CB2	VU270600	CN 6P
CB101	VT707200	L.EMIT TOTX178
△ CB200	VP245600	CN 2P
△ CB202	VB390200	CN.BS.PIN 6P
△ CB203	VG879900	CN.BS.PIN 2P
CB300	VU271700	CN 17P
CB301	VB390400	CN.BS.PIN 8P
* CB303	VQ045200	CN.BS.PIN 22P
CB304	VU272200	CN 22P
CB410	VB390200	CN.BS.PIN 6P
C1	VJ599100	C.CE.TUBLR 0.1uF 50V
C3	VJ599000	C.CE.TUBLR 0.047uF 16V
C4	UR818100	C.EL 100uF 6.3V
C5	VJ599100	C.CE.TUBLR 0.1uF 50V
C6	VJ599100	C.CE.TUBLR 0.1uF 50V
C7	VJ599100	C.CE.TUBLR 0.1uF 50V
C8	UA953100	C.MYLAR 1000pF 50V
C9	VJ599100	C.CE.TUBLR 0.1uF 50V
C10	VG278400	C.CE.TUBLR 220pF 50V
C11	UA655100	C.MYLAR 0.1uF 50V
C12	VG278400	C.CE.TUBLR 220pF 50V
C13	UA655100	C.MYLAR 0.1uF 50V
C14	UA953120	C.MYLAR 1200pF 50V
C15	UA953120	C.MYLAR 1200pF 50V
C16	UN865470	C.EL 0.47uF 50V
C17	UN866470	C.EL 4.7uF 50V
C18	VJ599100	C.CE.TUBLR 0.1uF 50V
C19	V4749000	C.EL 150uF 6.3V
C20	UR818100	C.EL 100uF 6.3V
C21	UR837470	C.EL 47uF 16V
C22	VJ599100	C.CE.TUBLR 0.1uF 50V
C23	VF467000	C.CE.TUBLR 1000pF 50V
C24	VJ599100	C.CE.TUBLR 0.1uF 50V
C25	UR818100	C.EL 100uF 6.3V
C26	VJ599100	C.CE.TUBLR 0.1uF 50V
* C27	UA654120	C.MYLAR 0.012uF 50V
C28	UA953100	C.MYLAR 1000pF 50V
* C29	UN865100	C.EL 0.10uF 50V
C31	UA655100	C.MYLAR 0.1uF 50V
C32	VJ599100	C.CE.TUBLR 0.1uF 50V
C33	VJ599100	C.CE.TUBLR 0.1uF 50V
C34	VJ599100	C.CE.TUBLR 0.1uF 50V
C35	UR818100	C.EL 100uF 6.3V
C38	V4749000	C.EL 150uF 6.3V
C39	UA953330	C.MYLAR 3300pF 50V
C40	VJ599100	C.CE.TUBLR 0.1uF 50V
C41	VG278700	C.CE.TUBLR 390pF 50V
C42	V4749000	C.EL 150uF 6.3V

* New Parts

Schm Ref.	PART NO.	Description
C43	VJ599100	C.CE.TUBLR 0.1uF 50V
C44	VA761400	C.CE 47pF 50V
C45	VJ599100	C.CE.TUBLR 0.1uF 50V
C46	VA761400	C.CE 47pF 50V
C47	UR866100	C.EL 1uF 50V
C48	UR866100	C.EL 1uF 50V
C49	UR866100	C.EL 1uF 50V
C50	UR866100	C.EL 1uF 50V
C51	UR818470	C.EL 470uF 6.3V
C52	VJ599100	C.CE.TUBLR 0.1uF 50V
C101	UA952100	C.MYLAR 100pF 50V
C102	V4850700	C.MYLAR 560pF 50V
C103	V4850700	C.MYLAR 560pF 50V
C104	UA952100	C.MYLAR 100pF 50V
C106	UA954180	C.MYLAR 0.018uF 50V
C107	VG287300	C.EL 22uF 50V
C108	UR818100	C.EL 100uF 6.3V
C109	V2680700	C.MYLAR 3300pF 50V
C110	V2680700	C.MYLAR 3300pF 50V
C111	UR818100	C.EL 100uF 6.3V
C112	VG287300	C.EL 22uF 50V
C113	UA954180	C.MYLAR 0.018uF 50V
C115	UA953100	C.MYLAR 1000pF 50V
C116	UA953100	C.MYLAR 1000pF 50V
C141	VJ599100	C.CE.TUBLR 0.1uF 50V
C144	UR837100	C.EL 10uF 16V
C145	VJ599100	C.CE.TUBLR 0.1uF 50V
C200	VJ599100	C.CE.TUBLR 0.1uF 50V
C201	VG286200	C.EL 100uF 10V
C202	VG286200	C.EL 100uF 10V
C203	UR866470	C.EL 4.7uF 50V
C204	UR866470	C.EL 4.7uF 50V
C205	UR838330	C.EL 330uF 16V
△ C206	FG644100	C.CE 0.01uF 50V
C207	UR865680	C.EL 0.68uF 50V
C208	VG288100	C.EL 2200uF 16V
△ C209	FG644100	C.CE 0.01uF 50V
C210	VG288300	C.EL 4700uF 16V
C211	UR866470	C.EL 4.7uF 50V
C212	UR828100	C.EL 100uF 10V
△ C213	UR867470	C.EL 47uF 50V
C214	UR868100	C.EL 100uF 50V
C216	UR866470	C.EL 4.7uF 50V
C217	UR866470	C.EL 4.7uF 50V
△ C218	VS741700	C.CE.SAFTY 0.01uF 275V
△ C219	VS741700	C.CE.SAFTY 0.01uF 275V
△ C220	VS741700	C.CE.SAFTY 0.01uF 275V
C300	UR818100	C.EL 100uF 6.3V
C301	VG276700	C.CE.TUBLR 24pF 50V
C303	UR818100	C.EL 100uF 6.3V
C304	VJ599100	C.CE.TUBLR 0.1uF 50V
C305	UR838100	C.EL 100uF 16V
C307	VJ599100	C.CE.TUBLR 0.1uF 50V

* New Parts

CDC-585/CDC-506 P.C.B. MAIN

Schm Ref.	PART NO.	Description
C308	VJ599100	C.CE.TUBLR 0.1uF 50V
C309	VJ599100	C.CE.TUBLR 0.1uF 50V
C404	VG288100	C.EL 2200uF 16V
C406	VJ599100	C.CE.TUBLR 0.1uF 50V
D103	VS997800	DIODE 1T2
D104	VS997800	DIODE 1T2
D105	VM974700	DIODE.ZENR HZS7B2TD 7.0V
D201	VD631600	DIODE 1SS133,176
D202	VD631600	DIODE 1SS133,176
△ D203	VS997800	DIODE 1T2
D204	VG437400	DIODE.ZENR MTZJ5.1B 5.1V
△ D205	VS997800	DIODE 1T2
△ D206	VS997800	DIODE 1T2
△ D207	VS997800	DIODE 1T2
△ D208	VS997800	DIODE 1T2
△ D209	VS997800	DIODE 1T2
D210	VG437700	DIODE.ZENR MTZJ5.6B 5.6V
△ D211	VS997800	DIODE 1T2
D212	VG437700	DIODE.ZENR MTZJ5.6B 5.6V
D214	VG443300	DIODE.ZENR MTZJ30B 30V
△ D217	VS997800	DIODE 1T2
D300	VD631600	DIODE 1SS133,176
D301	VD631600	DIODE 1SS133,176
D302	VD631600	DIODE 1SS133,176
D402	VS997800	DIODE 1T2
D403	VS997800	DIODE 1T2
* HS1	V6792900	HEAT.SINK MES1525S
HS2	Vi835500	HEAT.SINK PH-0124S-B
IC1	XW249A00	IC AN8882SB
* IC2	XZ555A00	IC AN4801SB CD DRIVER
IC3	XW915A00	IC MN35511AL
IC101	XA987A00	IC NJM2068D-D
IC102	XA987A00	IC NJM2068D-D
IC200	XD201A00	IC M5290P
* IC301	XZ547A00	IC.CPU UPD78076-XXX CPU
IC303	XV633A00	IC LC75711NE FLD
L2	VD473700	COIL 60uH
* L115	V6660800	FER.CORE F5 T19x10x10
△ L201	VV900900	FLTR 3071-012-0
L301	VD473700	COIL 60uH
L305	V4769500	FER.BEAD RH03506BT-B-1B
PJ101	VV411100	JACK.PIN 2P
PN2	V3750100	PIN L=50
PN4	V3750100	PIN L=50(R)
PN5	V3750100	PIN L=50(R)
PN8	V3750200	PIN L=70
Q1	iB054430	TR 2SB544 D,E,F,G
Q4	VK432900	TR 2SD1915F S,T
Q101	VK432900	TR 2SD1915F S,T
Q102	VK432900	TR 2SD1915F S,T
Q103	VK432900	TR 2SD1915F S,T
Q104	VK432900	TR 2SD1915F S,T
Q105	iC174020	TR 2SC1740S R,S

* New Parts

Schm Ref.	PART NO.	Description
Q200	iA093320	TR 2SA933S Q,R
△ Q201	VS883300	TR 2SB1565 E,F
△ Q202	VS883400	TR 2SD2394 E,F
Q203	VP872600	TR 2SA1708 S,T
R203	HV755100	R.CAR.FP 100Ω 1/4W
R211	HV755100	R.CAR.FP 100Ω 1/4W
△ R222	V2370600	R.FUS 0.47Ω 1/6W
△ R223	HV755120	R.CAR.FP 120Ω 1/4W
△ R224	HV755120	R.CAR.FP 120Ω 1/4W
△ R225	HV755120	R.CAR.FP 120Ω 1/4W
R226	V2370600	R.FUS 0.47Ω 1/6W
R311	VF771900	R.ARRAY RGLE8X103J
* R312	VK860600	R.ARRAY RGLE5X103J
ST1	V4040500	SCR.TERM M3
ST2	V4040500	SCR.TERM M3(R)
ST3	V4040500	SCR.TERM M3(R)
△ SW200	VZ364100	SW.PUSH SDDL1-A2-F-1
△ SW201	V5993500	VOLT.SELCT VSA-14-1(R)
SW303	VG392900	SW.TACT SKHVAA
SW307	VG392900	SW.TACT SKHVAA
SW308	VG392900	SW.TACT SKHVAA
SW309	VG392900	SW.TACT SKHVAA
SW312	VG392900	SW.TACT SKHVAA
SW313	VG392900	SW.TACT SKHVAA
SW314	VG392900	SW.TACT SKHVAA
SW317	VG392900	SW.TACT SKHVAA
SW318	VG392900	SW.TACT SKHVAA
SW322	VG392900	SW.TACT SKHVAA
SW323	VG392900	SW.TACT SKHVAA
△ * T200	XZ532A00	TRANS.PWR (R)
△ * T200	XZ533A00	TRANS.PWR (UC)
△ * T200	XZ534A00	TRANS.PWR (A)
△ * T200	XZ536A00	TRANS.PWR (BG)
U300	V2856200	L.DTCT PIC-28043TH2
V300	V3008400	FL.DSPLY 15-ST-20G
XL1	VJ719800	RSNR.CRYS 16.9344MHz
XL300	VU763600	RSNR.CE 5MHz
V3393500		SHEET.FL
V3747500		SUPRT
EG330030		SCR.BND.HD 3x6 FCRM3-BL
V3747400		SPACER.FL T4x6x18

* New Parts

CDC-685/CDC-906 P.C.B. MAIN

Schm Ref.	PART NO.	Description
* * * *	V6727100	P.C.B. MAIN(UC)
	V6727700	P.C.B. MAIN(R)
	V6727800	P.C.B. MAIN(A)
	V6727900	P.C.B. MAIN(BG)
CB1	V2731000	CN.FMN 16P
CB2	VU270600	CN 6P
CB100	VK024700	CN.BS.PIN 3P
CB101	VT707200	L.EMIT TOTX178
CB102	VK026200	CN.BS.PIN 3P
△ CB200	VP245600	CN 2P
△ CB202	VB390200	CN.BS.PIN 6P
△ CB203	VG879900	CN.BS.PIN 2P
CB300	VU271700	CN 17P
CB301	VB390400	CN.BS.PIN 8P
* CB303	VQ045200	CN.BS.PIN 22P
CB304	VU272200	CN 22P
CB410	VB390200	CN.BS.PIN 6P
C1	VJ599100	C.CE.TUBLR 0.1uF 50V
C3	VJ599000	C.CE.TUBLR 0.047uF 16V
C4	UR818100	C.EL 100uF 6.3V
C5	VJ599100	C.CE.TUBLR 0.1uF 50V
C6	VJ599100	C.CE.TUBLR 0.1uF 50V
C7	VJ599100	C.CE.TUBLR 0.1uF 50V
C8	UA953100	C.MYLAR 1000pF 50V
C9	VJ599100	C.CE.TUBLR 0.1uF 50V
C10	VG278400	C.CE.TUBLR 220pF 50V
C11	UA655100	C.MYLAR 0.1uF 50V
C12	VG278400	C.CE.TUBLR 220pF 50V
C13	UA655100	C.MYLAR 0.1uF 50V
C14	UA953120	C.MYLAR 1200pF 50V
C15	UA953120	C.MYLAR 1200pF 50V
C16	UN865470	C.EL 0.47uF 50V
C17	UN866470	C.EL 4.7uF 50V
C18	VJ599100	C.CE.TUBLR 0.1uF 50V
C20	UR818100	C.EL 100uF 6.3V
C21	UR837470	C.EL 47uF 16V
C22	VJ599100	C.CE.TUBLR 0.1uF 50V
C23	VF467000	C.CE.TUBLR 1000pF 50V
C24	VJ599100	C.CE.TUBLR 0.1uF 50V
C25	UR818100	C.EL 100uF 6.3V
C26	VJ599100	C.CE.TUBLR 0.1uF 50V
* C27	UA654120	C.MYLAR 0.012uF 50V
* C28	UA953100	C.MYLAR 1000pF 50V
C29	UN865100	C.EL 0.10uF 50V
C31	UA655100	C.MYLAR 0.1uF 50V
C32	VJ599100	C.CE.TUBLR 0.1uF 50V
C33	VJ599100	C.CE.TUBLR 0.1uF 50V
C34	VJ599100	C.CE.TUBLR 0.1uF 50V
C35	UR818100	C.EL 100uF 6.3V
C39	UA953330	C.MYLAR 3300pF 50V
C40	VJ599100	C.CE.TUBLR 0.1uF 50V
C41	VG278700	C.CE.TUBLR 390pF 50V
C43	VJ599100	C.CE.TUBLR 0.1uF 50V

* New Parts

Schm Ref.	PART NO.	Description
C44	VA761400	C.CE 47pF 50V
C45	VJ599100	C.CE.TUBLR 0.1uF 50V
C46	VA761400	C.CE 47pF 50V
C47	UR866100	C.EL 1uF 50V
C48	UR866100	C.EL 1uF 50V
C49	UR866100	C.EL 1uF 50V
C50	UR866100	C.EL 1uF 50V
C51	UR818470	C.EL 470uF 6.3V
C52	VJ599100	C.CE.TUBLR 0.1uF 50V
C101	UA952100	C.MYLAR 100pF 50V
C102	V4850700	C.MYLAR 560pF 50V
C103	V4850700	C.MYLAR 560pF 50V
C104	UA952100	C.MYLAR 100pF 50V
C106	UA954180	C.MYLAR 0.018uF 50V
C107	VG287300	C.EL 22uF 50V
C108	UR818100	C.EL 100uF 6.3V
C109	V2680700	C.MYLAR 3300pF 50V
C110	V2680700	C.MYLAR 3300pF 50V
C111	UR818100	C.EL 100uF 6.3V
C112	VG287300	C.EL 22uF 50V
C113	UA954180	C.MYLAR 0.018uF 50V
C115	UA953100	C.MYLAR 1000pF 50V
C116	UA953100	C.MYLAR 1000pF 50V
C133	UR848330	C.EL 330uF 25V
C134	UR837100	C.EL 10uF 16V
C135	VJ599000	C.CE.TUBLR 0.047uF 16V
C136	VG277700	C.CE.TUBLR 68pF 50V
C137	VG277700	C.CE.TUBLR 68pF 50V
C138	VJ599000	C.CE.TUBLR 0.047uF 16V
C139	UR837100	C.EL 10uF 16V
C140	UR848330	C.EL 330uF 25V
C141	VJ599100	C.CE.TUBLR 0.1uF 50V
C144	UR837100	C.EL 10uF 16V
C145	VJ599100	C.CE.TUBLR 0.1uF 50V
C151	VJ599100	C.CE.TUBLR 0.1uF 50V
C152	VJ599100	C.CE.TUBLR 0.1uF 50V
C200	VJ599100	C.CE.TUBLR 0.1uF 50V
C201	VG286200	C.EL 100uF 10V
C202	VG286200	C.EL 100uF 10V
C203	UR866470	C.EL 4.7uF 50V
C204	UR866470	C.EL 4.7uF 50V
C205	UR838330	C.EL 330uF 16V
△ C206	FG644100	C.CE 0.01uF 50V
C207	UR865680	C.EL 0.68uF 50V
C208	VG288100	C.EL 2200uF 16V
△ C209	FG644100	C.CE 0.01uF 50V
C210	VG288300	C.EL 4700uF 16V
C211	UR866470	C.EL 4.7uF 50V
C212	UR828100	C.EL 100uF 10V
△ C213	UR867470	C.EL 47uF 50V
C214	UR868100	C.EL 100uF 50V
C216	UR866470	C.EL 4.7uF 50V
C217	UR866470	C.EL 4.7uF 50V

* New Parts

CDC-685/CDC-906 P.C.B. MAIN

Schm Ref.	PART NO.	Description			
△	C218	VS741700	C.CE.SAFTY	0.01uF	275V
△	C219	VS741700	C.CE.SAFTY	0.01uF	275V
△	C220	VS741700	C.CE.SAFTY	0.01uF	275V
	C300	UR818100	C.EL	100uF	6.3V
	C301	VG276700	C.CE.TUBLR	24pF	50V
	C302	VJ599100	C.CE.TUBLR	0.1uF	50V
	C303	UR818100	C.EL	100uF	6.3V
	C304	VJ599100	C.CE.TUBLR	0.1uF	50V
	C305	UR838100	C.EL	100uF	16V
	C307	VJ599100	C.CE.TUBLR	0.1uF	50V
	C308	VJ599100	C.CE.TUBLR	0.1uF	50V
	C309	VJ599100	C.CE.TUBLR	0.1uF	50V
	C311	VJ599100	C.CE.TUBLR	0.1uF	50V(UCA)
	C312	VJ599100	C.CE.TUBLR	0.1uF	50V(UCA)
	C315	VJ599100	C.CE.TUBLR	0.1uF	50V
	C404	VG288100	C.EL	2200uF	16V
	C406	VJ599100	C.CE.TUBLR	0.1uF	50V
	D100	VD631600	DIODE	1SS133,176	
	D101	VD631600	DIODE	1SS133,176	
	D103	VS997800	DIODE	1T2	
	D104	VS997800	DIODE	1T2	
	D105	VM974700	DIODE.ZENR	HZS7B2TD	7.0V
	D201	VD631600	DIODE	1SS133,176	
	D202	VD631600	DIODE	1SS133,176	
△	D203	VS997800	DIODE	1T2	
	D204	VG437400	DIODE.ZENR	MTZJ5.1B	5.1V
△	D205	VS997800	DIODE	1T2	
△	D206	VS997800	DIODE	1T2	
△	D207	VS997800	DIODE	1T2	
△	D208	VS997800	DIODE	1T2	
△	D209	VS997800	DIODE	1T2	
	D210	VG437700	DIODE.ZENR	MTZJ5.6B	5.6V
△	D211	VS997800	DIODE	1T2	
	D212	VG437700	DIODE.ZENR	MTZJ5.6B	5.6V
	D214	VG443300	DIODE.ZENR	MTZJ30B	30V
△	D217	VS997800	DIODE	1T2	
	D300	VD631600	DIODE	1SS133,176	
	D301	VD631600	DIODE	1SS133,176	
	D302	VD631600	DIODE	1SS133,176	
	D303	VD631600	DIODE	1SS133,176	
	D304	VD631600	DIODE	1SS133,176	
	D305	VD631600	DIODE	1SS133,176	
	D306	V2598200	LED	SIR-505ST(UCA)	
	D402	VS997800	DIODE	1T2	
	D403	VS997800	DIODE	1T2	
*	HS1	V6792900	HEAT.SINK	MES1525S	
	HS2	Vi835500	HEAT.SINK	PH-0124S-B	
	IC1	XW249A00	IC	AN8882SB	
*	IC2	XZ555A00	IC	AN4801SB	CD DRIVER
	IC3	XW915A00	IC	MN35511AL	
	IC101	XA987A00	IC	NJM2068D-D	
	IC102	XA987A00	IC	NJM2068D-D	
	IC105	Xi249A00	IC	BA15218	

* New Parts

Schm Ref.	PART NO.	Description			
	IC200	XD201A00	IC	M5290P	
*	IC301	XZ547A00	IC.CPU	UPD78076-XXX	CPU
	IC302	XS070A00	IC	S-24C01ADP	EEPROM
	IC303	XV633A00	IC	LC75711NE	FLD
	JK100	VS899700	JACK.PHONE	JY-6317-02-030	
	JK300	VJ726800	JACK.MNI	(UCA)	
	JK301	VJ726800	JACK.MNI	(UCA)	
	L2	VD473700	COIL	60uH	
	L110	VD473700	COIL	60uH	
	L111	VD473700	COIL	60uH	
	L112	VD473700	COIL	60uH	
*	L115	V6660800	FER.CORE	F5 T19x10x10	
△	L201	VV900900	FLTR	3071-012-0	
	L301	VD473700	COIL	60uH	
	L302	VD473700	COIL	60uH(UCA)	
	L303	VD473700	COIL	60uH(UCA)	
	L304	VD473700	COIL	60uH(UCA)	
	L305	V4769500	FER.BEAD	RH03506BT-B-1B	
	PJ101	VV411100	JACK.PIN	2P	
	PN2	V3750100	PIN	L=50	
	PN4	V3750100	PIN	L=50(R)	
	PN5	V3750100	PIN	L=50(R)	
	PN6	V3750100	PIN	L=50	
	PN8	V3750200	PIN	L=70	
	Q1	iB054430	TR	2SB544	D,E,F,G
	Q4	VK432900	TR	2SD1915F	S,T
	Q101	VK432900	TR	2SD1915F	S,T
	Q102	VK432900	TR	2SD1915F	S,T
	Q103	VK432900	TR	2SD1915F	S,T
	Q104	VK432900	TR	2SD1915F	S,T
	Q105	iC174020	TR	2SC1740S	R,S
	Q200	iA093320	TR	2SA933S	Q,R
△	Q201	VS883300	TR	2SB1565	E,F
△	Q202	VS883400	TR	2SD2394	E,F
	Q203	VP872600	TR	2SA1708	S,T
	R139	HV755100	R.CAR.FP	100Ω	1/4W
	R150	HV755100	R.CAR.FP	100Ω	1/4W
	R203	HV755100	R.CAR.FP	100Ω	1/4W
	R211	HV755100	R.CAR.FP	100Ω	1/4W
△	R222	V2370600	R.FUS	0.47Ω	1/6W
△	R223	HV755120	R.CAR.FP	120Ω	1/4W
△	R224	HV755120	R.CAR.FP	120Ω	1/4W
△	R225	HV755120	R.CAR.FP	120Ω	1/4W
	R226	V2370600	R.FUS	0.47Ω	1/6W
	R311	VF771900	R.ARRAY	RGLE8X103J	
*	R312	VK860600	R.ARRAY	RGLE5X103J	
	ST1	V4040500	SCR.TERM	M3	
	ST2	V4040500	SCR.TERM	M3(R)	
	ST3	V4040500	SCR.TERM	M3(R)	
	ST4	VN008600	SCR.TERM	8.3x13	
△	SW200	VZ364100	SW.PUSH	SDDL1-A2-F-1	
△	SW201	V5993500	VOLT.SELCT	VSA-14-1(R)	
	SW300	VG392900	SW.TACT	SKHVAA	

* New Parts

CDC-685/CDC-906 P.C.B. MAIN

Schm Ref.	PART NO.	Description			
	SW301	VG392900	SW.TACT	SKHVAA	
	SW302	VG392900	SW.TACT	SKHVAA	
	SW303	VG392900	SW.TACT	SKHVAA	
	SW304	VG392900	SW.TACT	SKHVAA	
	SW305	VG392900	SW.TACT	SKHVAA	
	SW306	VG392900	SW.TACT	SKHVAA	
	SW307	VG392900	SW.TACT	SKHVAA	
	SW308	VG392900	SW.TACT	SKHVAA	
	SW309	VG392900	SW.TACT	SKHVAA	
	SW310	VG392900	SW.TACT	SKHVAA	
	SW311	VG392900	SW.TACT	SKHVAA	
	SW312	VG392900	SW.TACT	SKHVAA	
	SW313	VG392900	SW.TACT	SKHVAA	
	SW314	VG392900	SW.TACT	SKHVAA	
	SW315	VG392900	SW.TACT	SKHVAA	
	SW316	VG392900	SW.TACT	SKHVAA	
	SW317	VG392900	SW.TACT	SKHVAA	
	SW318	VG392900	SW.TACT	SKHVAA	
	SW319	VG392900	SW.TACT	SKHVAA	
	SW320	VG392900	SW.TACT	SKHVAA	
	SW321	VG392900	SW.TACT	SKHVAA	
	SW322	VG392900	SW.TACT	SKHVAA	
	SW323	VG392900	SW.TACT	SKHVAA	
	SW324	VG392900	SW.TACT	SKHVAA	
△ *	T200	XZ532A00	TRANS.PWR	(R)	
△ *	T200	XZ533A00	TRANS.PWR	(UC)	
△ *	T200	XZ534A00	TRANS.PWR	(A)	
△ *	T200	XZ536A00	TRANS.PWR	(BG)	
	U300	V2856200	L.DTCT	PIC-28043TH2	
	V300	V3008400	FL.DSPLY	15-ST-20G	
	XL1	VJ719800	RSNR.CRYS	16.9344MHz	
	XL300	VU763600	RSNR.CE	5MHz	
		V3393500	SHEET.FL		
		V3747500	SUPRT		
		EG330030	SCR.BND.HD	3x6	FCRM3-BL
		V3747400	SPACER.FL	T4x6x18	

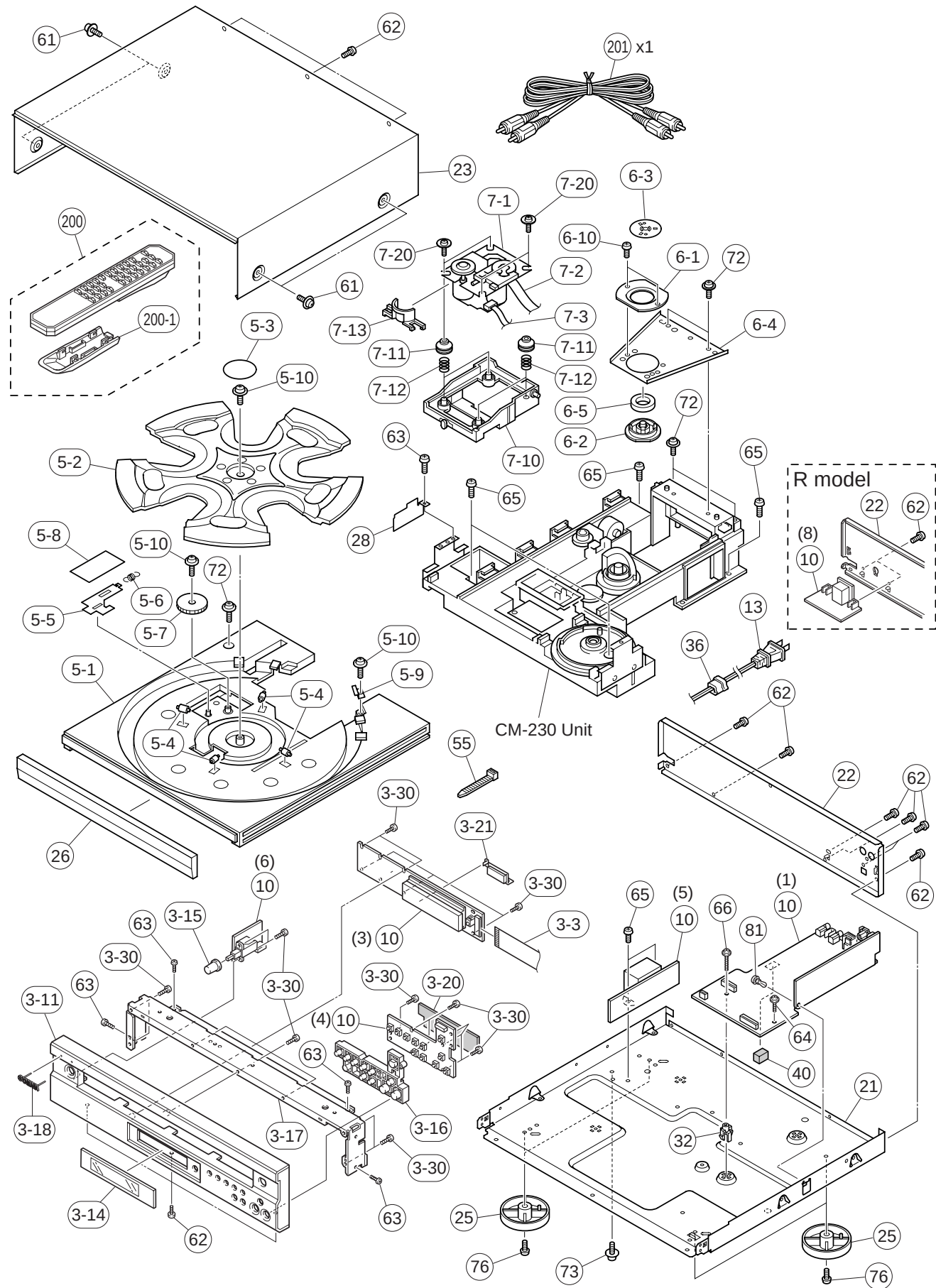
* New Parts

P.C.B. CM

Schm Ref.	PART NO.	Description			
*		V3172600	P.C.B.	CM	
	CB400	VB858200	CN.BS.PIN	3P	
	CB401	VB858200	CN.BS.PIN	3P	
	CB402	VB858200	CN.BS.PIN	3P	
	CB403	VB858200	CN.BS.PIN	3P	
	CB404	VB858200	CN.BS.PIN	3P	
	CB405	VB858100	CN.BS.PIN	2P	
	CB406	VB858100	CN.BS.PIN	2P	
	CB407	VB858100	CN.BS.PIN	2P	
*	CB408	VU281700	CN	17P	
	C400	VJ599100	C.CE.TUBLR	0.1uF	50V
	C401	VJ599100	C.CE.TUBLR	0.1uF	50V
	C402	VF467000	C.CE.TUBLR	1000pF	50V
	C403	VF467000	C.CE.TUBLR	1000pF	50V
*	D400	V2363400	PHOT.INTR	ON1024	
	D401	VG438700	DIODE.ZENR	MTZJ7.5C	7.5V
	IC400	XQ135A00	IC	BA6286	
*	IC401	XF947A00	IC	LA6510	
	Q400	VP872700	TR	2SC4488	S,T
	R406	HV753100	R.CAR.FP	1Ω	1/4W
	R413	HV753100	R.CAR.FP	1Ω	1/4W
*	SW400	Vi294000	SW.LEVER	SSCF21	
*	SW401	Vi294000	SW.LEVER	SSCF21	

* New Parts

1 CDC-585/CDC-506 EXPLODED VIEW



MECHANICAL PARTS (CDC-585/CDC-506)

Ref. No.	PART NO.	Description	Remarks	Markets
* 3-3	MF122300	FLEXIBLE FLAT CABLE	22P 300mm P=1.25	
* 3-11	V6401800	FRONT PANEL		CDC-506GP
* 3-11	V6401700	FRONT PANEL		CDC-585BL
* 3-14	V6402300	SHEET/WINDOW		
3-15	V5914500	BUTTON/D12		CDC-585BL
3-15	V5914700	BUTTON/D12		CDC-506GP
* 3-16	V6402400	BUTTON CASE		CDC-585BL
* 3-16	V6402700	BUTTON CASE		CDC-506GP
* 3-17	V6402200	SUPPORT/PANEL		
3-18	V6034200	EMBLEM		CDC-506GP
3-18	V6034100	EMBLEM		CDC-585BL
* 3-20	V6673000	DAMPER		
* 3-21	V6782100	SHEET/EARTH 585		
3-30	EP630220	BIND HEAD P-TITE SCREW	3x8 ZMC2-BL	
5-1	VZ761500	TRAY	B	
5-2	V2430500	TABLE, C		
5-3	V2133100	PLATE, TABLE		
5-4	VS037300	ROLLER		
5-5	VV014400	LEVER	P0	
5-6	VS036900	SPRING, RT		
5-7	VZ761800	GEAR, RT1		
5-8	VS037900	SHEET, TRAY	B	
5-9	V3316800	SUPPORT, TR		
5-10	VA775100	PW HEAD P-TITE SCREW	3x8-10 FCRM3-BL	
6-1	V2430700	HOLDER, CLAMPER/C		
6-2	VL782500	STABILIZER		
6-3	VS500400	PLATE	STABILIZER	
6-4	VZ762600	FRAME, CLAMPER		
6-5	VQ930900	MAGNET	DH29.6x18x3.6FMS	
6-10	EP600820	BIND HEAD B-TITE SCREW	3x6 MFC2-BL	
7-1	V3175200	PU MECHA. UNIT	DA11T3	
7-2	V3340500	CONNECTOR, FLAT CABLE	16P 230mm	
7-3	V3340300	CONNECTOR, FLAT CABLE	6P 90mm	
7-10	V2430600	HOLDER, PU/C		
7-11	V2430800	DAMPER, CDC		
7-12	VQ386500	SPRING		
7-13	V2480800	BARRIER, PU		
7-20	V2478200	PW HEAD P-TITE SCREW	2.6x8-12 MFZN2-Y	
* 10	V6745000	P.C.B. ASS'Y	MAIN	(UC)
* 10	V6745300	P.C.B. ASS'Y	MAIN	(R)
* 10	V6745400	P.C.B. ASS'Y	MAIN	(A)
* 10	V6794000	P.C.B. ASS'Y	MAIN	(BG)
△ 13	V2296800	POWER CORD ASS'Y		(A)
△ 13	V2363800	POWER CORD ASS'Y		(UC)
△ 13	VN363700	POWER CORD ASS'Y		(G)
△ 13	VV437300	POWER CORD ASS'Y		(B)
△ 13	VZ542500	POWER CORD ASS'Y		(R)
* 21	V6305700	CHASSIS		
* 22	V6402900	REAR PANEL		CDC-585BL (UC)
* 22	V6403000	REAR PANEL		CDC-585BL (R)
* 22	V6403100	REAR PANEL		CDC-585BL (A)
* 22	V6403200	REAR PANEL		CDC-585BL (BG)
* 22	V6403300	REAR PANEL		CDC-506GP (UC)

* New Parts

Ref. No.	PART NO.	Description	Remarks	Markets
* 22	V6403400	REAR PANEL	CDC-506GP	(A)
* 23	V7354300	TOP COVER		
25	VQ780300	LEG	D60xH16	CDC-585BL
25	VQ982800	LEG	D60xH16	CDC-506GP
* 26	V6638900	LID		CDC-585BL
* 26	V6639100	LID		CDC-506GP
* 28	V7327900	SHEET BARRIER/PW		(UC)
32	VR264400	SPACER	H8	
36	V2438700	CORD STOPPER	10P1	
40	VZ544200	SPACER	T13x10x20	
55	VU590000	BINDING TIE	CBTD001B	
61	21991500	PW HEAD S-TITE SCREW	4x8-10 FCRM3-BL	
62	VN413300	BIND HEAD BONDING B-T. SCREW	3x8 MFZN2-BL	
63	EP600820	BIND HEAD B-TITE SCREW	3x6 MFC2-BL	
64	VT669300	PW HEAD B-TITE SCREW	3x8-8 MFC2	
65	V2728500	BIND HEAD S-TITE SCREW	4x7 MFZN2-BL	
66	VT669400	PW HEAD B-TITE SCREW	3x15-8 MFC2	
72	VN559500	PW HEAD P-TITE SCREW	3x12-10 ZMC2-Y	
73	21991500	PW HEAD S-TITE SCREW	4x8-10 FCRM3-BL	
74	EP600830	BIND HEAD B-TITE SCREW	3x8 FCRM3-BL	
76	EP600250	BIND HEAD B-TITE SCREW	3x8 ZMC2-Y	
81	VQ368600	PUSH RIVET	P3555-B	
		ACCESSORIES		
* 200	V6625600	REMOTE CONTROL TRANSMITTER	CDC6	
200-1	AAX13340	LID	BLJYE 60050001	
201	VY952200	PIN-PLUG CORD	2P 1.0m 1pc	
		BATTERY, MANGANESE	SUM-3,AA,R06	

* New Parts

MECHANICAL PARTS (CDC-685/CDC-906)

	Ref. No.	PART NO.	Description	Remarks	Markets
*	3-3	MF122300	FLEXIBLE FLAT CABLE	22P 300mm P=1.25	
*	3-4	V6998100	ESCUTCHEON/PW	CDC-685TI	
	3-4	V6094800	ESCUTCHEON/PW	CDC-685BL,906GP	
*	3-5	V6997800	ESCUTCHEON	CDC-685BL,906GP	
*	3-5	V6998000	ESCUTCHEON	CDC-685TI	
*	3-11	V6401400	FRONT PANEL	CDC-685BL	
*	3-11	V6401500	FRONT PANEL	CDC-685TI	
*	3-11	V6401600	FRONT PANEL	CDC-906GP	
*	3-12	V6401900	SUB PANEL	CDC-685BL,906GP	
*	3-12	V6402000	SUB PANEL	CDC-685TI	
	3-13	V2668300	SUPPORT, HP		
*	3-14	V6402300	SHEET/WINDOW		
	3-15	V5914500	BUTTON/D12	CDC-685BL	
	3-15	V6470000	BUTTON/D12	CDC-685TI	
	3-15	V5914700	BUTTON/D12	CDC-906GP	
*	3-16	V6402600	BUTTON CASE	CDC-685TI	
*	3-16	V6402800	BUTTON CASE	CDC-906GP	
*	3-16	V6402500	BUTTON CASE	CDC-685BL	
	3-18	V6034200	EMBLEM	CDC-906GP	
	3-18	V6034100	EMBLEM	CDC-685BL,TI	
*	3-20	V6673000	DAMPER		
*	3-21	V6782100	SHEET/EARTH 585		
	3-30	EP630220	BIND HEAD P-TITE SCREW	3x8 ZMC2-BL	
	5-1	VZ761500	TRAY	B	
	5-2	V2430500	TABLE, C		
	5-3	V2133100	PLATE, TABLE		
	5-4	VS037300	ROLLER		
	5-5	VV014400	LEVER	PO	
	5-6	VS036900	SPRING, RT		
	5-7	VZ761800	GEAR, RT1		
	5-8	VS037900	SHEET, TRAY	B	
	5-9	V3316800	SUPPORT, TR		
	5-10	VA775100	PW HEAD P-TITE SCREW	3x8-10 FCRM3-BL	
	6-1	V2430700	HOLDER, CLAMPER/C		
	6-2	VL782500	STABILIZER		
	6-3	VS500400	PLATE	STABILIZER	
	6-4	VZ762600	FRAME, CLAMPER		
	6-5	VQ930900	MAGNET	DH29.6x18x3.6FMS	
	6-10	EP600820	BIND HEAD B-TITE SCREW	3x6 MFC2-BL	
	7-1	V3175200	PU MECHA. UNIT	DA11T3	
	7-2	V3340500	CONNECTOR, FLAT CABLE	16P 230mm	
	7-3	V3340300	CONNECTOR, FLAT CABLE	6P 90mm	
	7-10	V2430600	HOLDER, PU/C		
	7-11	V2430800	DAMPER, CDC		
	7-12	VQ386500	SPRING		
	7-13	V2480800	BARRIER, PU		
	7-20	V2478200	PW HEAD P-TITE SCREW	2.6x8-12 MFZN2-Y	
*	10	V6727100	P.C.B. ASS'Y	MAIN	(UC)
*	10	V6727700	P.C.B. ASS'Y	MAIN	(R)
*	10	V6727800	P.C.B. ASS'Y	MAIN	(A)
*	10	V6727900	P.C.B. ASS'Y	MAIN	(BG)
△	13	V2296800	POWER CORD ASS'Y		(A)
△	13	V2363800	POWER CORD ASS'Y		(UC)

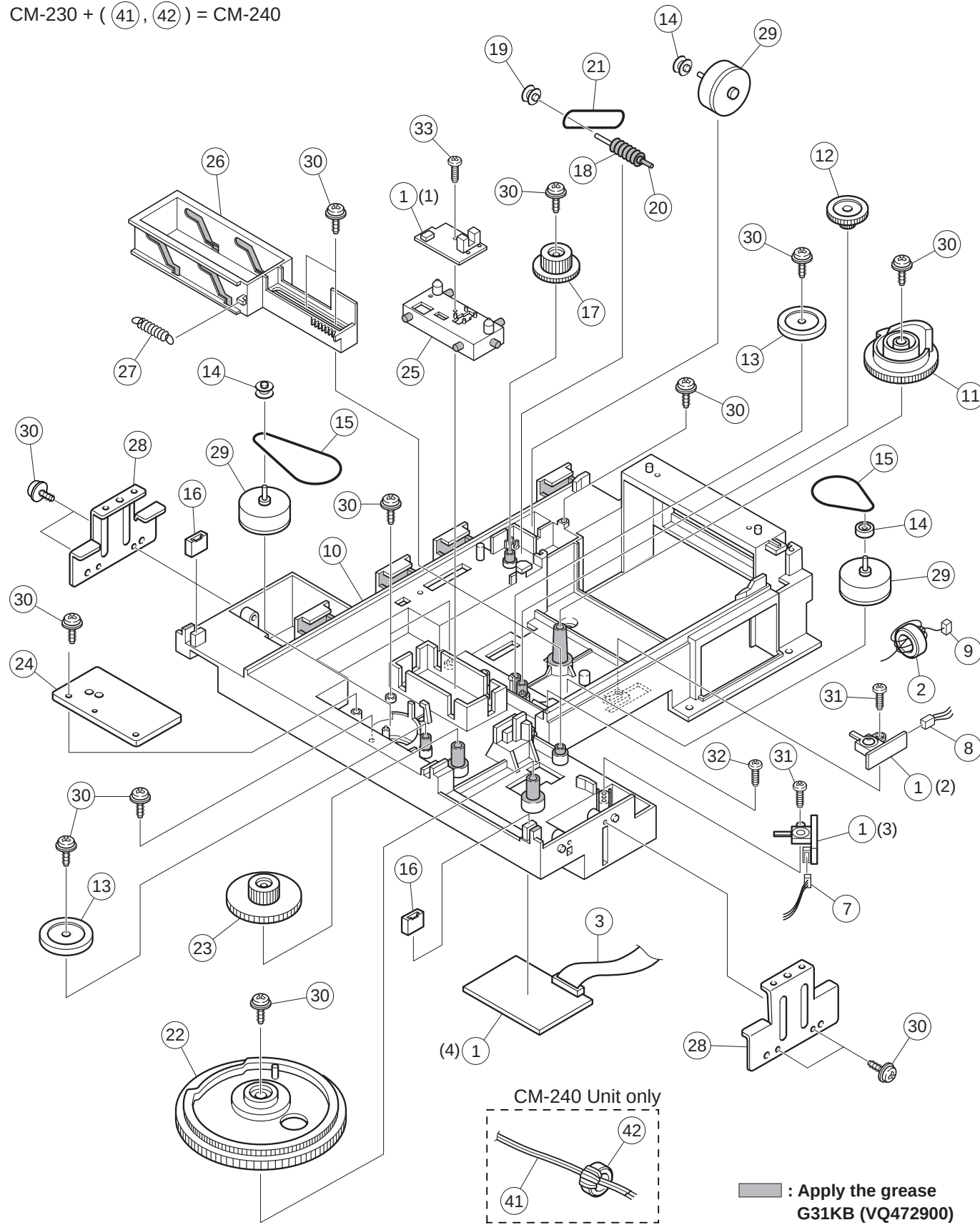
* New Parts

	Ref. No.	PART NO.	Description	Remarks	Markets
△ *	13	VN363600	POWER CORD ASS'Y		(G)
△	13	VV437300	POWER CORD ASS'Y		(B)
△	13	VZ542500	POWER CORD ASS'Y		(R)
*	21	V6305700	CHASSIS		
*	22	V6403500	REAR PANEL	CDC-685BL,TI	(UC)
*	22	V6403600	REAR PANEL	CDC-685BL,TI	(R)
*	22	V6403700	REAR PANEL	CDC-685BL,TI	(A)
*	22	V6403800	REAR PANEL	CDC-685BL,TI	(BG)
*	22	V6403900	REAR PANEL	CDC-906GP	(UC)
*	22	V6404000	REAR PANEL	CDC-906GP	(A)
	23	V2151800	TOP COVER	CDC-685TI	
*	23	V7354300	TOP COVER	CDC-685BL,906GP	
	25	VQ780300	LEG	D60xH16	
	25	VQ982800	LEG	D60xH16	
*	26	V6638900	LID		
*	26	V6639000	LID		
*	26	V6639100	LID		
*	27	V7327800	SHEET BARRIER/SIDE		(UC)
	30	VQ775900	GROUND PLATE		
	32	VR264400	SPACER	H8	
	36	V2438700	CORD STOPPER	10P1	
	40	VZ544200	SPACER	T13x10x20	
	55	VU590000	BINDING TIE	CBTD001B	
	61	21991500	PW HEAD S-TITE SCREW	4x8-10 FCRM3-BL	CDC-685BL,906GP
	61	VH313200	BW HEAD S-TITE SCREW	4x8-10 FNM3-BL	CDC-685TI
	62	VN413300	BIND HEAD BONDING B-T. SCREW	3x8 MFZN2-BL	
	64	VT669300	PW HEAD B-TITE SCREW	3x8-8 MFC2	
	65	V2728500	BIND HEAD S-TITE SCREW	4x7 MFZN2-BL	
	66	VT669400	PW HEAD B-TITE SCREW	3x15-8 MFC2	
	67	EP600820	BIND HEAD B-TITE SCREW	3x6 MFC2-BL	
	72	VN559500	PW HEAD P-TITE SCREW	3x12-10 ZMC2-Y	
	73	21991500	PW HEAD S-TITE SCREW	4x8-10 FCRM3-BL	
	76	EP600250	BIND HEAD B-TITE SCREW	3x8 ZMC2-Y	
	81	VQ368600	PUSH RIVET	P3555-B	
			ACCESSORIES		
*	200	V6625700	REMOTE CONTROL TRANSMITTER	CDC7	
	200-1	AAX13340	LID	BLJYE 60050001	
	201	VY952200	PIN-PLUG CORD	2P 1.0m 1pc	
			BATTERY, MANGANESE	SUM-3,AA,R06	

* New Parts

EXPLODED VIEW (CM-230/CM-240 Unit)

CM-230 + (41 , 42) = CM-240



MECHANICAL PARTS (CM-230/CM-240 Unit)

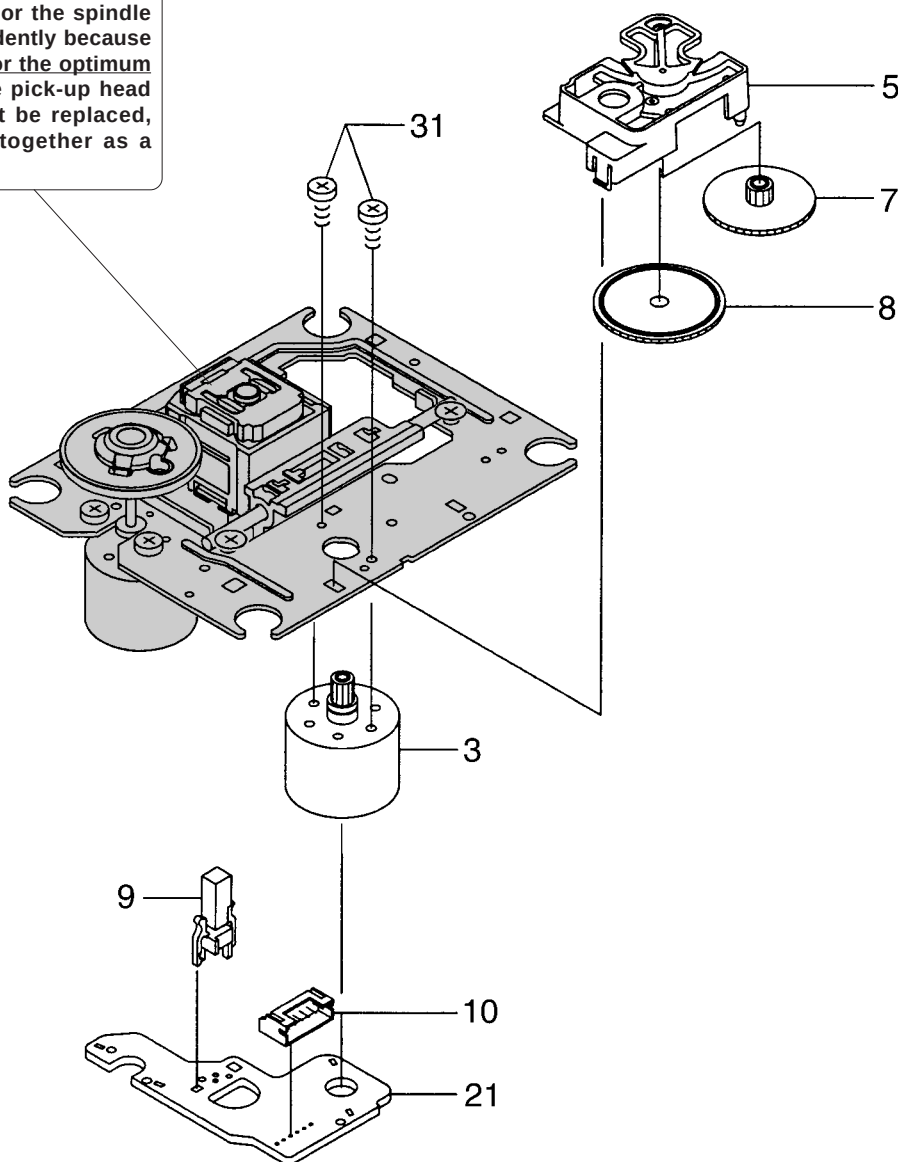
Ref. No.	PART NO.	Description	Remarks	Markets
1	V3172600	P.C.B. ASS'Y	CM	CM-230, CM-240
* 2	V6660800	FERRITE CORE	F5 T19x10x10	CM-230, CM-240
3	V3340400	CONNECTOR, FLAT CABLE	17P 110mm	CM-230, CM-240
7	V3175700	CONNECTOR ASS'Y	3P 220mm	CM-230, CM-240
8	V3175900	CONNECTOR ASS'Y	3P 220mm	CM-230, CM-240
* 9	MF706450	IDC CABLE ASS'Y	6P 450mm C&C	CM-230, CM-240
10	VZ760500	CHASSIS	B	CM-230, CM-240
11	VZ760600	CAM, CL		CM-230, CM-240
12	VS035400	GEAR, CL2		CM-230, CM-240
13	VS036100	GEAR PULLEY		CM-230, CM-240
14	VS036200	PULLEY		CM-230, CM-240
15	VQ776900	BELT	V	CM-230, CM-240
16	VQ775500	DAMPER, TRAY		CM-230, CM-240
17	VS035800	GEAR, WW		CM-230, CM-240
18	VS035700	GEAR		CM-230, CM-240
19	V2009500	PULLEY, RT		CM-230, CM-240
20	VS036600	SHAFT, 2		CM-230, CM-240
21	VS036500	BELT, RT		CM-230, CM-240
22	VZ760700	GEAR, L01		CM-230, CM-240
23	VS035300	GEAR, L01		CM-230, CM-240
24	VZ760800	SHEET, BELT		CM-230, CM-240
25	VZ761000	HOLDER, SENSOR		CM-230, CM-240
26	VZ761200	CAM, SLIDE		CM-230, CM-240
27	VS036800	SPRING, CAM		CM-230, CM-240
28	VS037400	SUPPORT, TRAY		CM-230, CM-240
△ 29	VM444200	MOTOR	RF-500TB-14415	CM-230, CM-240
30	VA775100	PW HEAD P-TITE SCREW	3x8-10 FCRM3-BL	CM-230, CM-240
31	VF617600	PAN HEAD P-TITE SCREW	2.6x8 FCRM3-BL	CM-230, CM-240
32	3786010	BIND HEAD SCREW	2.6x5 ZMC2-BL	CM-230, CM-240
33	EP630220	BIND HEAD P-TITE SCREW	3x8 ZMC2-BL	CM-230, CM-240
* 41	V6986300	CONNECTOR, FLAT CABLE	3P 650mm P=2.0	CM-240 only
* 42	V6660800	FERRITE CORE	F5 T19x10x10	CM-240 only

* New Parts

1 ■ EXPLODED VIEW (PU Mecha. Unit)

Note :

Neither the pick-up head nor the spindle motor is available independently because they are factory-adjusted for the optimum level after assembly. If the pick-up head or the spindle motor must be replaced, be sure to replace them together as a unit.



Ref. No.	PART NO.	Description	Remarks	Markets
	V3175200	PU MECHA. UNIT	DA11T3	
3	XX702580	SLED MOTOR ASS'Y	6.0V	1EA0M10A09700
5	XX702590	COVER, GEAR		1EA2121A20000
7	XX702610	GEAR, MIDDLE		1EA2511A21000
8	XX702600	GEAR, DRIVE		1EA2511A21100
9	XX702660	SWITCH, LEAFE	PWB MOTOR	1EA4S13A01600
10	XX702620	CONNECTOR, S	6P	1EA4J13A54700
21	XX702570	PWB, MOTOR		1EA4B10B06100
31	XX702640	SCREW, PAN PCS	2x3	SE1PN203R0SE

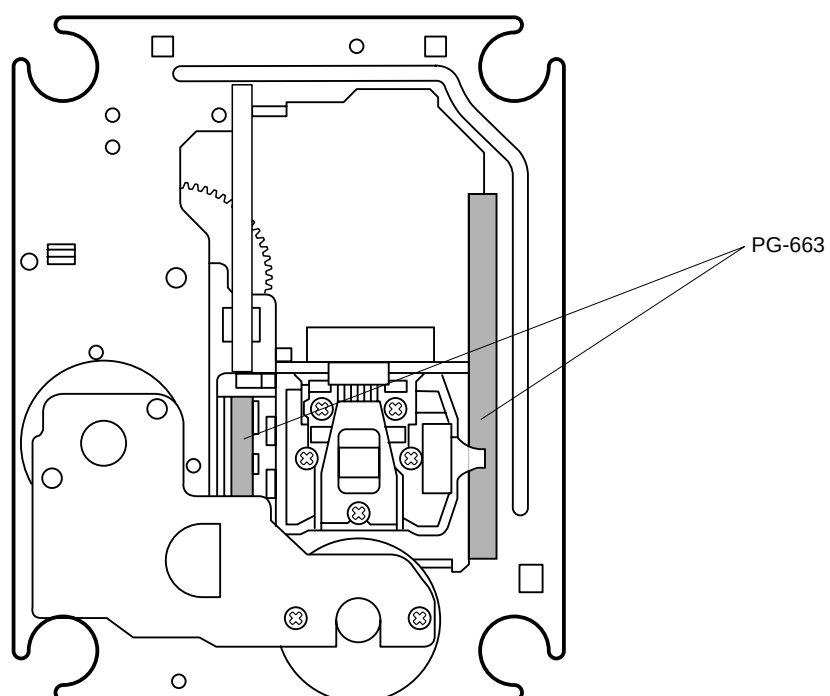
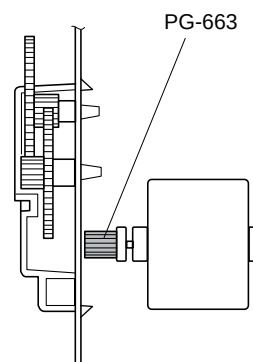
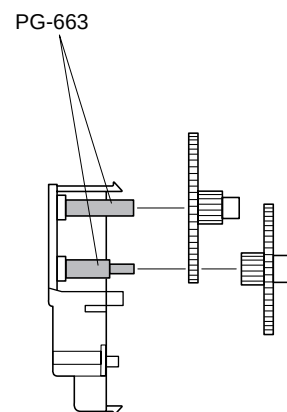
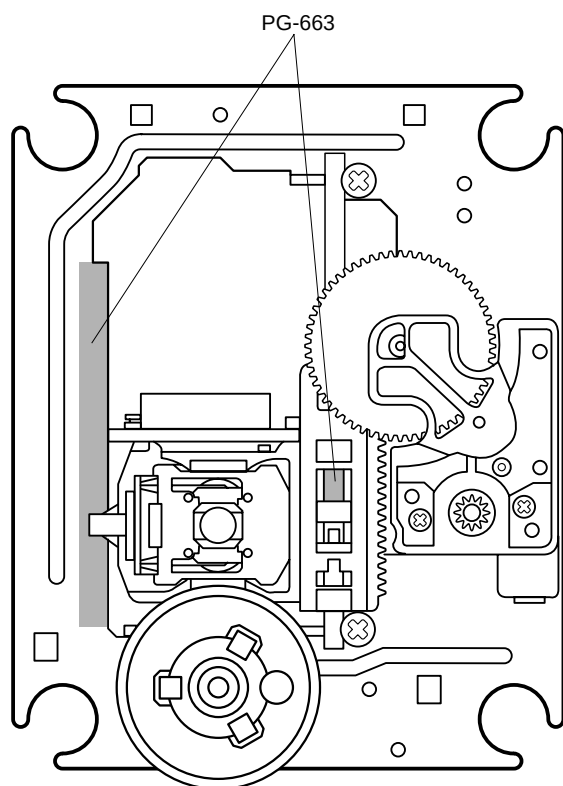
* New Parts

CDC-585/CDC-506/CDC-685/CDC-906

GREASE APPLICATION DIAGRAM (PU Mechanism)

Apply the grease

Molykote PG-663 (P/No. AAX01170)

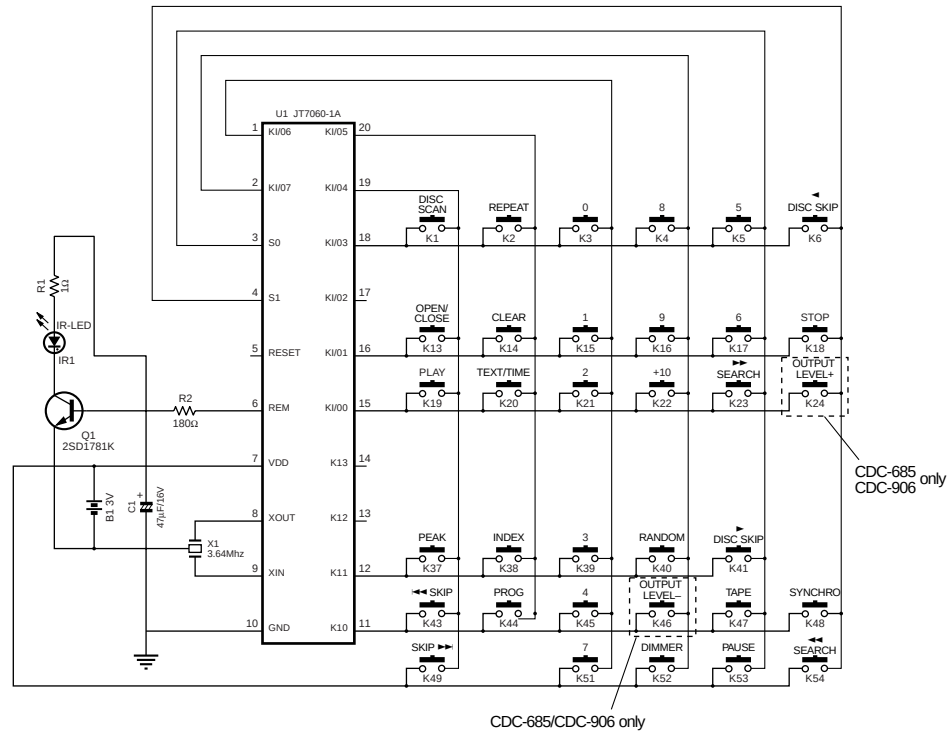


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■ REMOTE CONTROL TRANSMITTER SCHEMATIC DIAGRAM

2

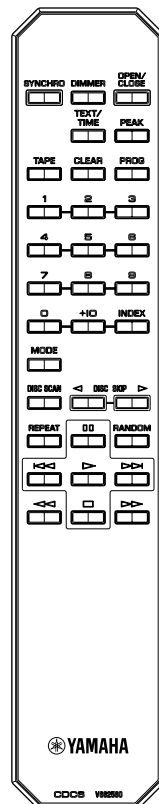
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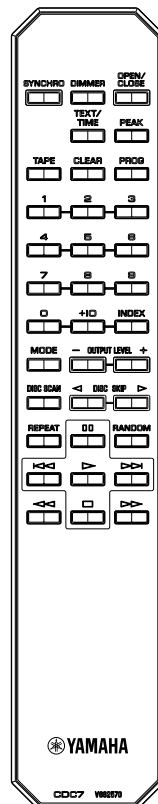
● CDC-585/CDC-506

● CDC-685/CDC-906



5

6



7

KEY No.	FUNCTION	CUSTOM CODE (HEX)	DATA CODE (HEX)
K48	SYNCHRO	79	58
K52	DIMMER	79	1E
K13	OPEN/CLOSE	79	01
K20	TEXT/TIME	79	0A
K37	PEAK	79	5D
K47	TAPE	79	57
K14	CLEAR	79	0D
K44	PROG	79	0C
K15	1	79	11
K21	2	79	12
K39	3	79	13
K45	4	79	14
K5	5	79	15
K17	6	79	16
K51	7	79	17
K4	8	79	18
K16	9	79	19
K3	0	79	10
K22	+10	79	1A
K38	INDEX	79	0B
	MODE	79	00
K46	OUTPUT LEVEL-	79	1C
K24	OUTPUT LEVEL+	79	1D
K1	DISC SCAN	79	53
K6	◀ DISC SKIP	79	50
K41	DISC SKIP ▶	79	4F
K2	REPEAT	79	08
K53	PAUSE ■■	79	55
K40	RANDOM	79	1B
K43	◀◀ SKIP	79	04
K19	PLAY ▶	79	02
K49	SKIP ▶▶	79	07
K54	◀◀ SEARCH	79	05
K18	STOP ■	79	56
K23	SEARCH ▶▶	79	06

CDC-685 only
CDC-906 only

Parts List for Carbon Resistors

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	HJ35 3100	HF85 3100	10 k Ω	HF45 7100	HF45 7100
1.8 Ω	HJ35 3180	*	11 k Ω	HF45 7110	HF45 7110
2.2 Ω	HJ35 3220	HF85 3220	12 k Ω	HJ35 7120	HF85 7120
3.3 Ω	HJ35 3330	HF85 3330	13 k Ω	HF45 7130	HF45 7130
4.7 Ω	HJ35 3470	HF85 3470	15 k Ω	HF45 7150	HF45 7150
5.6 Ω	HJ35 3560	HF85 3560	18 k Ω	HF45 7180	HF45 7180
10 Ω	HF45 4100	HF45 4100	22 k Ω	HF45 7220	HF45 7220
15 Ω	HJ35 4150	HF85 4150	24 k Ω	HF45 7240	HF45 7240
22 Ω	HF45 4220	HF45 4220	27 k Ω	HJ35 7270	HF85 7270
27 Ω	HJ35 4270	HF85 4270	30 k Ω	HF45 7300	HF45 7300
33 Ω	HF45 4330	HF45 4330	33 k Ω	HF45 7330	HF45 7330
39 Ω	HJ35 4470	HF85 4390	36 k Ω	HF45 7360	HF45 7360
47 Ω	HF45 4470	HF45 4470	39 k Ω	HF45 7390	HF45 7390
56 Ω	HF45 4560	HF45 4560	47 k Ω	HF45 7470	HF45 7470
68 Ω	HF45 4680	HF45 4680	51 k Ω	HF45 7510	HF45 7510
75 Ω	HF45 4750	HF45 4750	56 k Ω	HF45 7560	HF45 7560
82 Ω	HF45 4820	HF45 4820	62 k Ω	HF45 7620	HF45 7620
91 Ω	HF45 4910	HF45 4910	68 k Ω	HF45 7680	HF45 7680
100 Ω	HF45 5100	HF45 5100	82 k Ω	HF45 7820	HF45 7820
110 Ω	HJ35 5110	HF85 5110	91 k Ω	HF45 7910	HF45 7910
120 Ω	HF45 5120	HF45 5120	100 k Ω	HF45 8100	HF45 8100
150 Ω	HF45 5150	HF45 5150	110 k Ω	HF45 8110	HF45 8110
160 Ω	HJ35 5160	*	120 k Ω	HF45 8120	HF45 8120
180 Ω	HF45 5180	HF45 5180	150 k Ω	HF45 8150	HF45 8150
200 Ω	HF45 5200	HF45 5200	180 k Ω	HF45 8180	HF45 8180
220 Ω	HF45 5220	HF45 5220	220 k Ω	HJ35 8220	HF85 8220
270 Ω	HF45 5270	HF45 5270	270 k Ω	HF45 8270	HF45 8270
330 Ω	HF45 5330	HF45 5330	300 k Ω	HF45 8300	HF45 8300
390 Ω	HF45 5390	HF45 5390	330 k Ω	HF45 8330	HF45 8330
430 Ω	HF45 5430	HF45 5430	390 k Ω	HJ35 8390	HF85 8390
470 Ω	HF45 5470	HF45 5470	470 k Ω	HF45 8470	HF45 8470
510 Ω	HF45 5510	HF45 5510	560 k Ω	HJ35 8560	HF85 8560
560 Ω	HF45 5560	HF45 5560	680 k Ω	HJ35 8680	HF85 8680
680 Ω	HF45 5680	HF45 5680	820 k Ω	HJ35 8820	HF85 8820
820 Ω	HF45 5820	HF45 5820	1.0 M Ω	HF45 9100	HF45 9100
910 Ω	HF45 5910	HF45 5910	1.2 M Ω	HJ35 9120	*
1.0 k Ω	HF45 6100	HF45 6100	1.5 M Ω	HJ35 9150	HF85 9150
1.2 k Ω	HF45 6120	HF45 6120	1.8 M Ω	HJ35 9180	HF85 9180
1.5 k Ω	HF45 6150	HF45 6150	2.2 M Ω	HJ35 9220	HF85 9220
1.8 k Ω	HF45 6180	HF45 6180	3.3 M Ω	HJ35 9330	HF85 9330
2.0 k Ω	HJ35 6200	HF85 6200	3.9 M Ω	HJ35 9390	*
2.2 k Ω	HF45 6220	HF45 6220	4.7 M Ω	HJ35 9470	HF85 9470
2.4 k Ω	HJ35 6240	HF85 6240			
2.7 k Ω	HF45 6270	HF45 6270			
3.0 k Ω	HF45 6300	HF45 6300			
3.3 k Ω	HF45 6330	HF45 6330			
3.6 k Ω	HJ35 6360	HF85 6360			
3.9 k Ω	HF45 6390	HF45 6390			
4.7 k Ω	HF45 6470	HF45 6470			
5.1 k Ω	HF45 6510	HF45 6510			
5.6 k Ω	HF45 6560	HF45 6560			
6.8 k Ω	HF45 6680	HF45 6680			
8.2 k Ω	HF45 6820	HF45 6820			
9.1 k Ω	HF45 6910	HF45 6910			

1/4W Type

HJ35 

10mm



1/4W Type

HF45 

1/6W Type

HF85 

5mm

