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

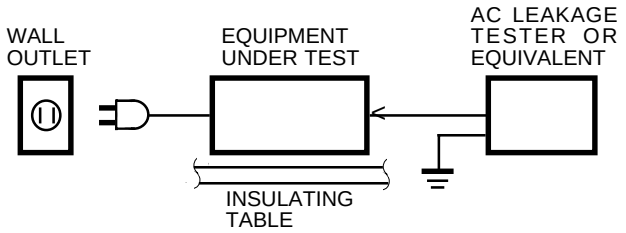
100741

YAMAHA
YAMAHA CORPORATION
P.O.Box 1, Hamamatsu, Japan

■ 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 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 0.15µF.
- 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.

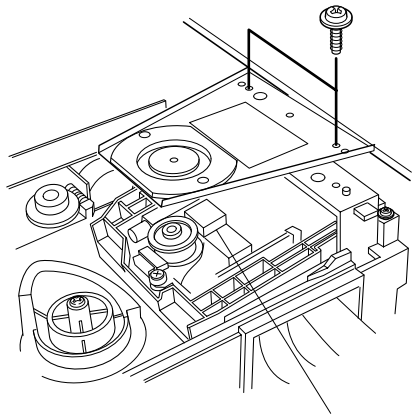
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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*

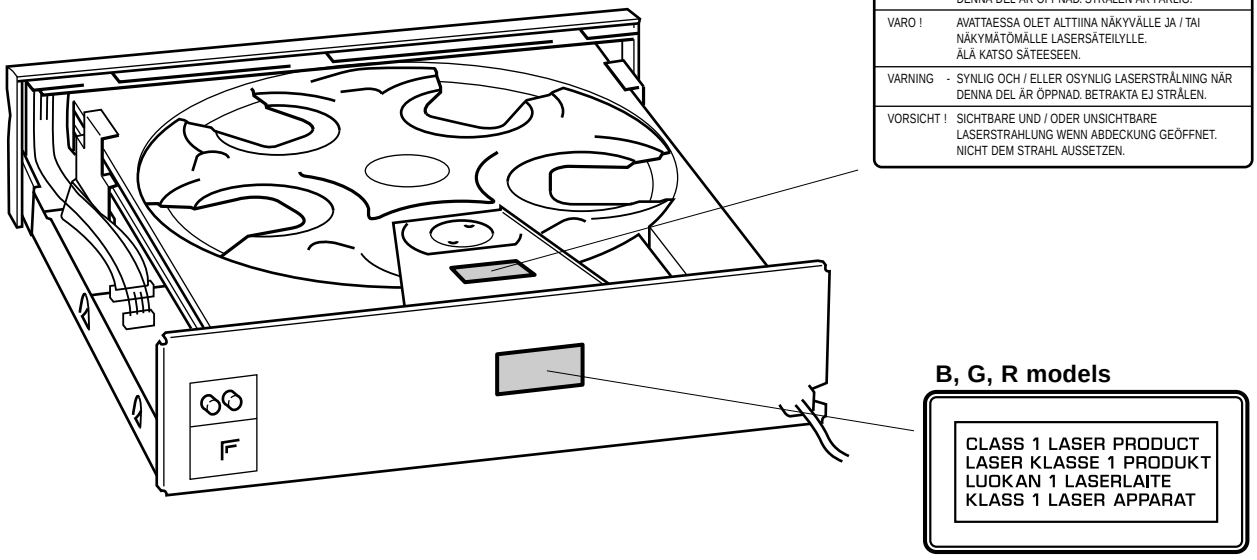
   * This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.

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



Optical pick-up

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	- SYNLIG OCH / ELLER OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG.
VARO !	AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA / TAI NÄKYMÄTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	- SYNLIG OCH / ELLER OSYNLIG 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

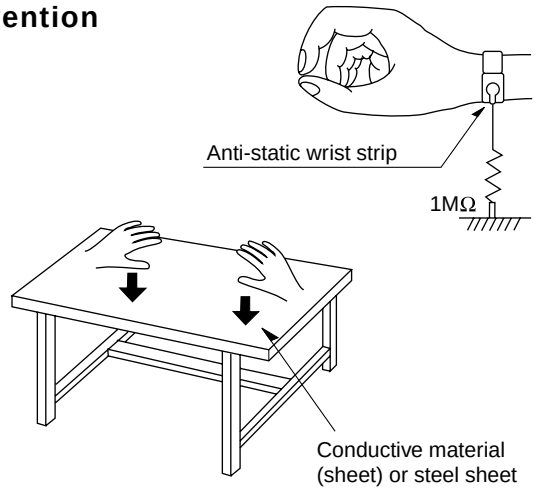
■ PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

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 divice, 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.

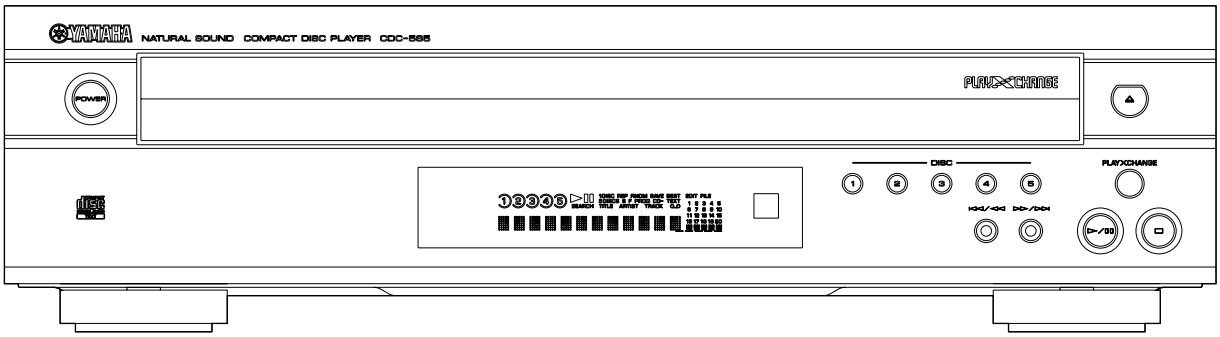


Caution:

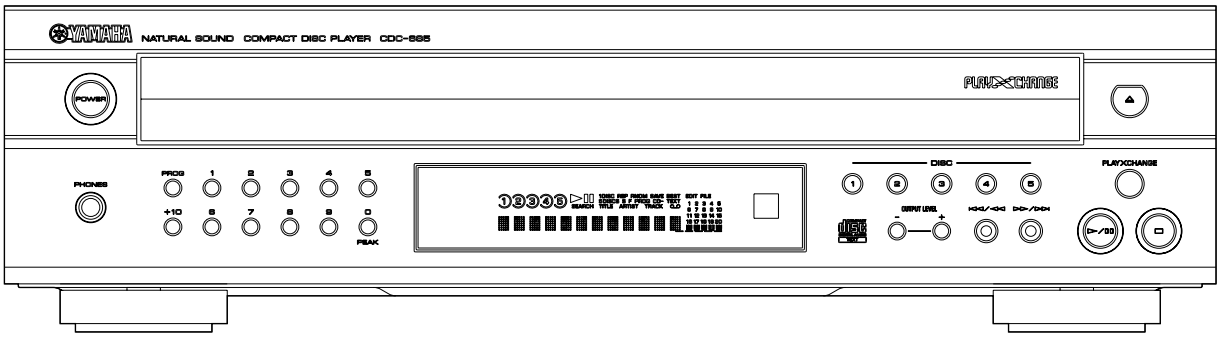
The static electricity of your clothes will not be grounded through the wrist strap. So take care not to let your clothes touch the optical pickup.

■ FRONT PANELS

● **CDC-585/CDC-506**

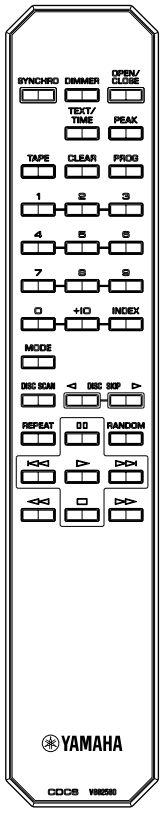


● **CDC-685/CDC-906**

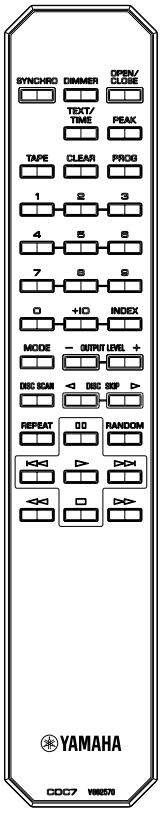


● REMOTE CONTROL TRANSMITTER

● **CDC-585/CDC-506**



● **CDC-685/CDC-906**



CAUTION FOR TRANSPORTING THIS UNIT

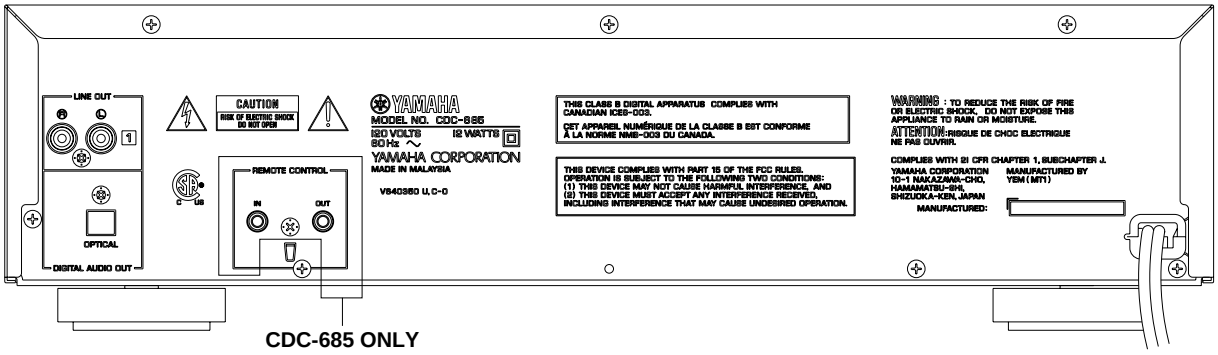
When transporting this unit, first remove all discs from the disc tray and close the tray by pressing the **OPEN/CLOSE** button, and then switch off the power after you confirm that the display has turned as follows.

2 3 4 5

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.

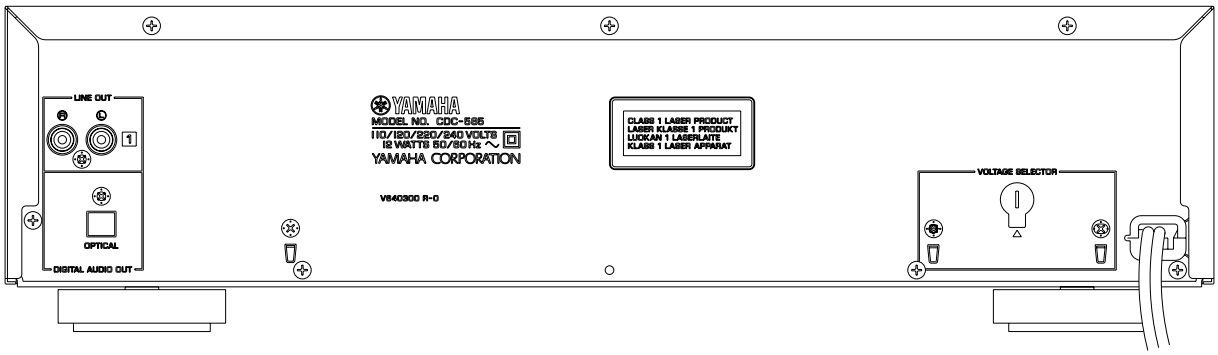
■ REAR PANELS

▼ U, C models

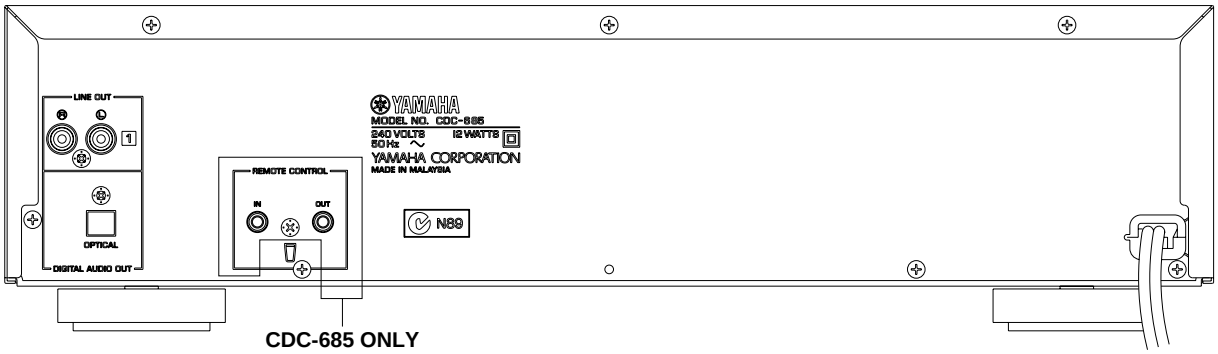


CDC-685 ONLY

▼ R model

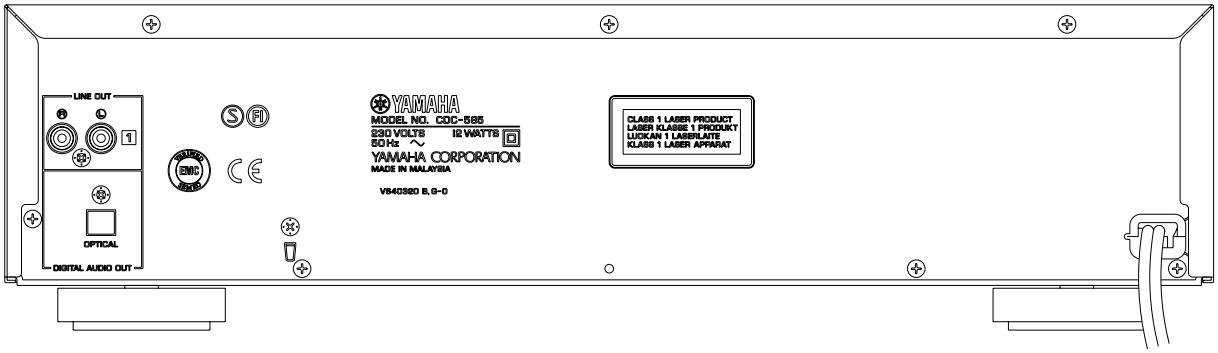


▼ A model



CDC-685 ONLY

▼ 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.*

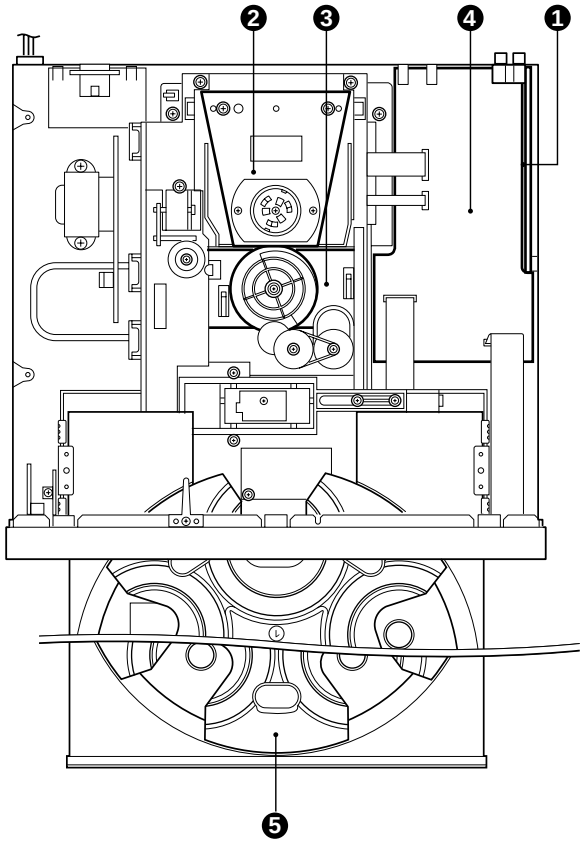
U ..... USA model ***B ..... British model***

C ..... Canadian model ***G ..... European model***

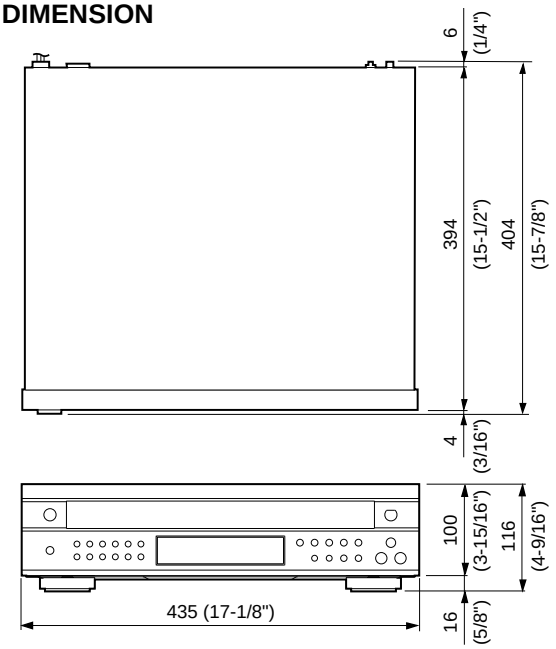
A ..... Australian model ***R ..... General model***

■ INTERNAL VIEW

❶ P.C.B. MAIN (2)
❷ CLAMP ASS'Y
❸ CM-230 UNIT (CDC-585/CDC-506)
❸ CM-240 UNIT (CDC-685/CDC-906)
❹ P.C.B. MAIN (1)
❺ TRAY ASS'Y



● DIMENSION



Unit : mm (inch)

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

1. Removal of Top Cover

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

2. Removal of Clamp Ass'y

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

3. Removal of Tray Ass'y

a. Remove 1 screw (④) as shown in Fig. 1.
b. 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.

c. Pull out the Tray Ass'y.

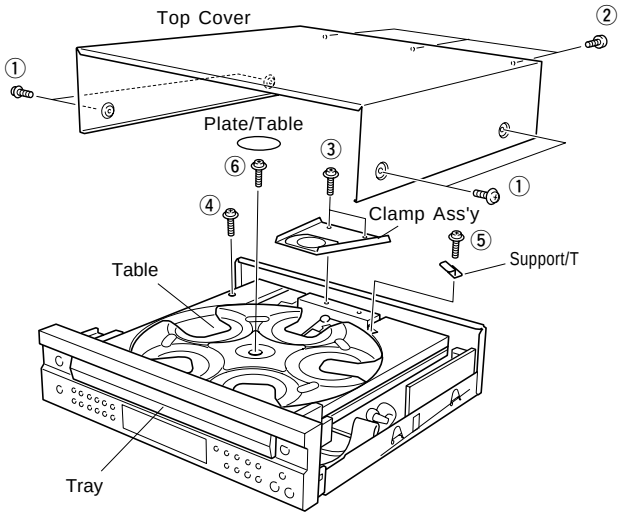


Fig. 1

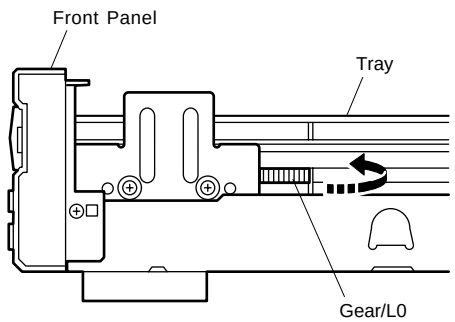


Fig. 2

4. Removal of Table

a. Remove 1 screw (⑤) and then remove the Support/T as shown in Fig. 1.
b. Remove the Plate/Table as shown in Fig. 1.
c. 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.

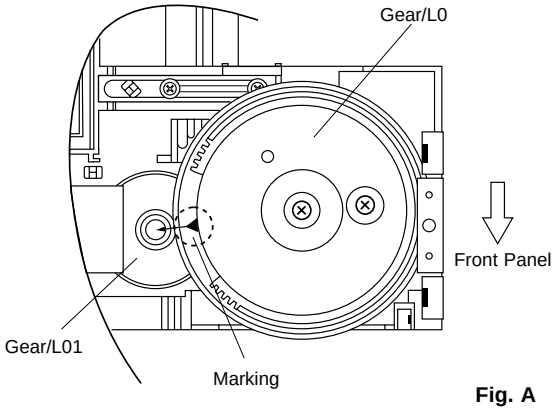


Fig. A

IMPORTANCE : Installation of Table.

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

*Check that the Table is locked after installation.

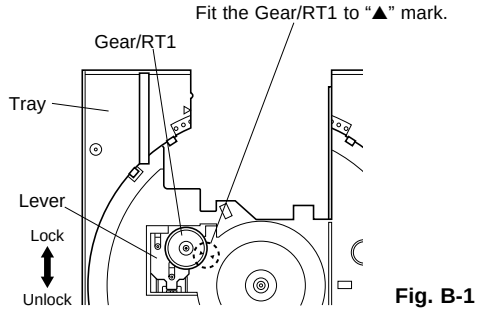


Fig. B-1

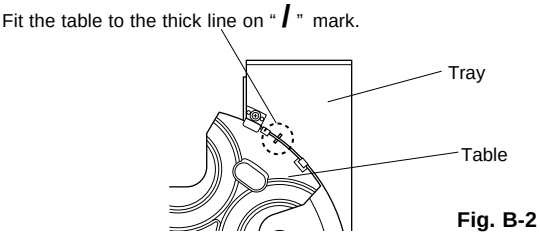


Fig. B-2

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)

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

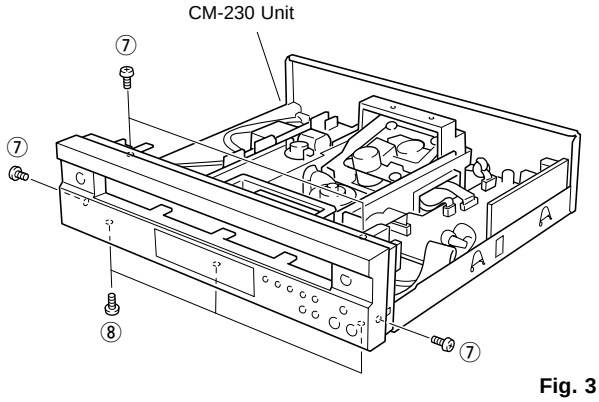


Fig. 3

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

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

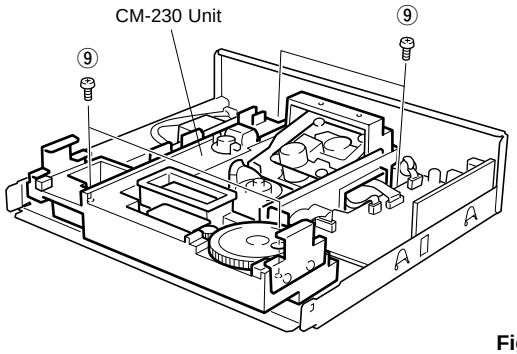
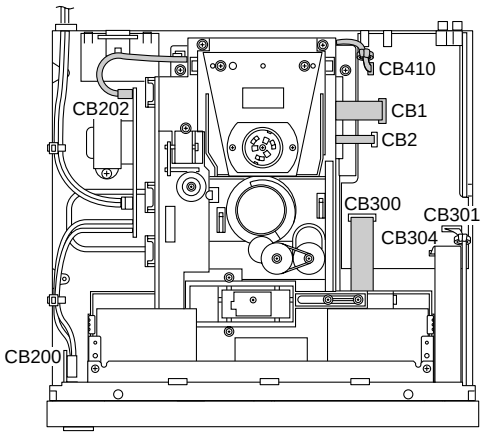


Fig. 4



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)

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

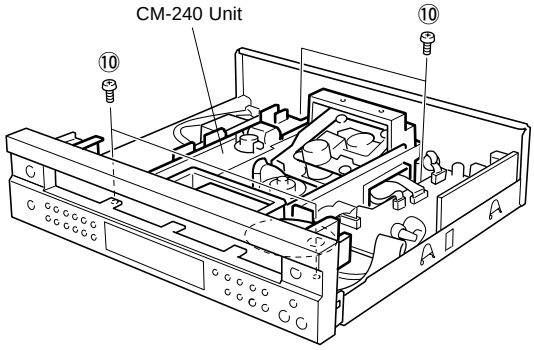
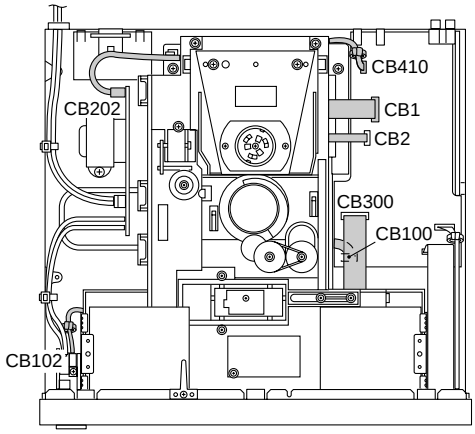


Fig. 5



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

6. Removal of PU Mechanism Unit

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

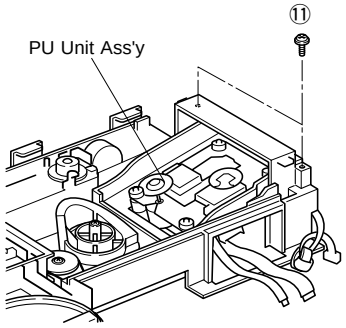


Fig. 6

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

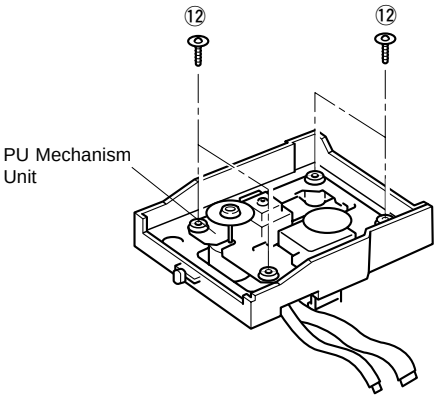


Fig. 7

● 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.

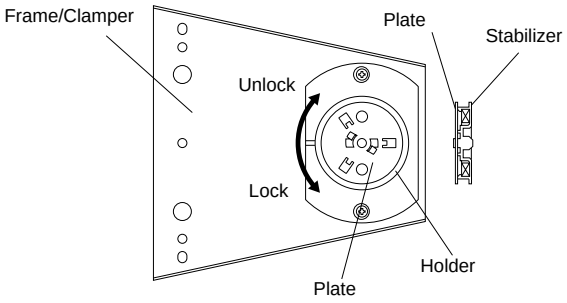


Fig. C

■ 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.

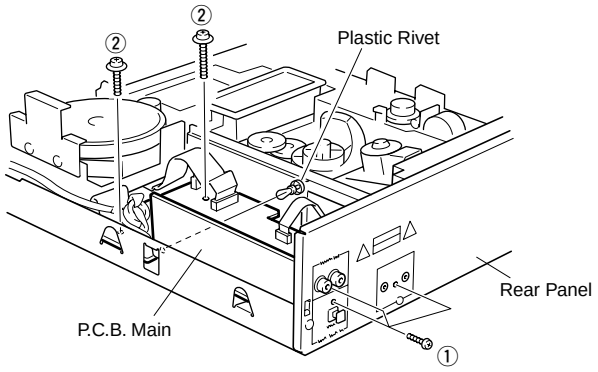


Fig. 1

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.

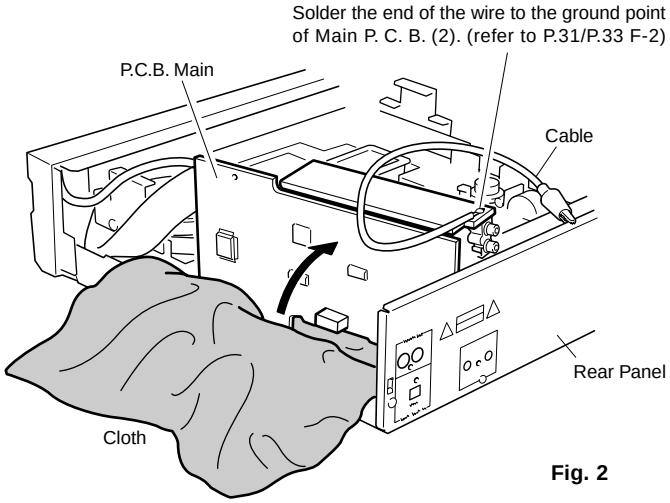


Fig. 2

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.

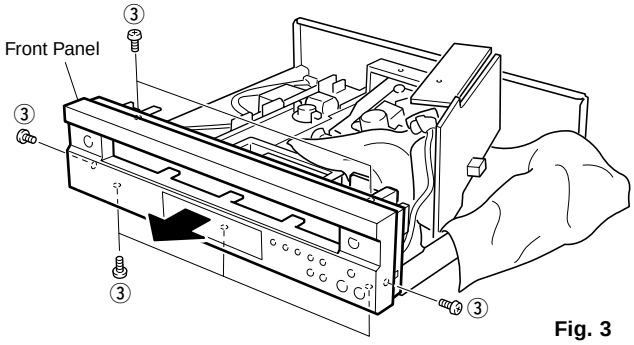


Fig. 3

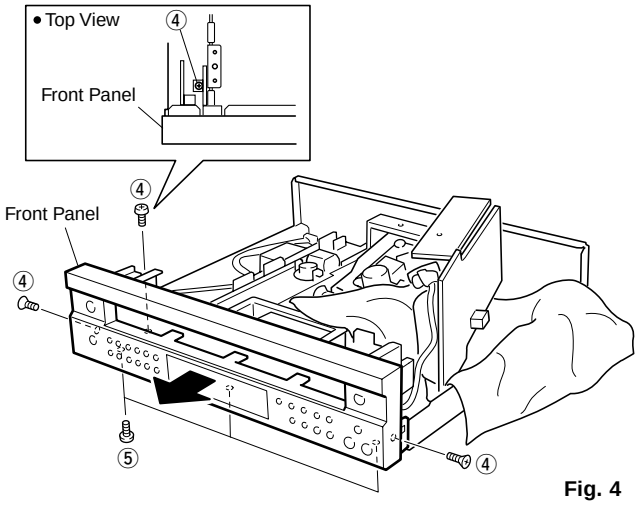
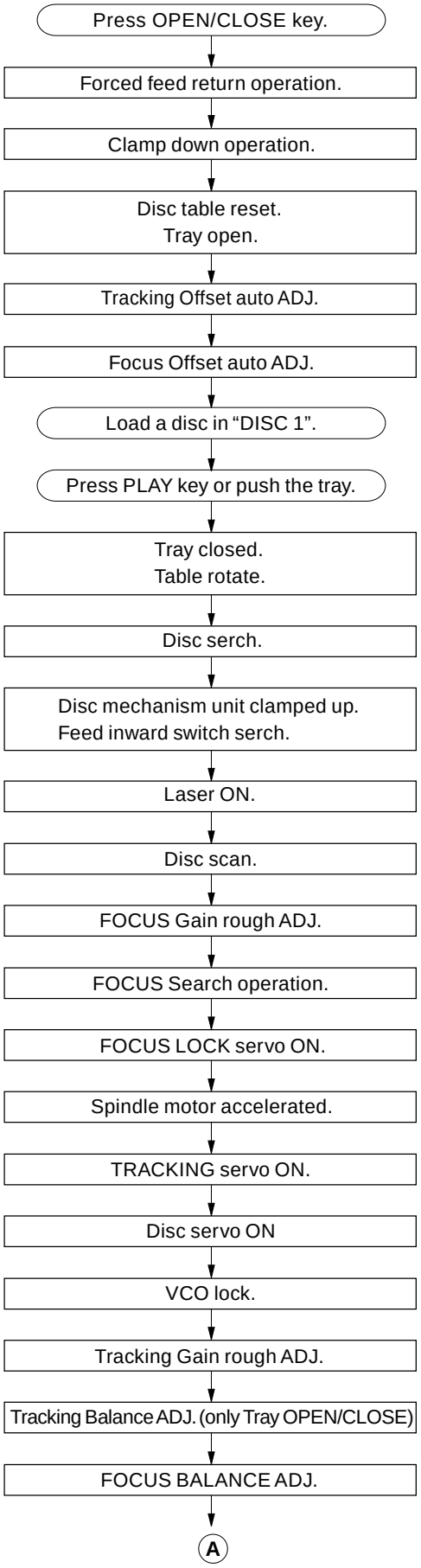


Fig. 4

■ STANDARD OPERATION CHART



“OPEN” appears on the display.

“TRV” signal is output until detection of LIMIT switch.

Proceeds to next step after detection of CLAMP switch. (SW400)

Stop after detection of LOADING switch. (SW401)

“DISC” ◯ flash.

Proceeds to next step after detection of LOADING switch. (SW401)
DISC “1” is turned to DM clamp position.

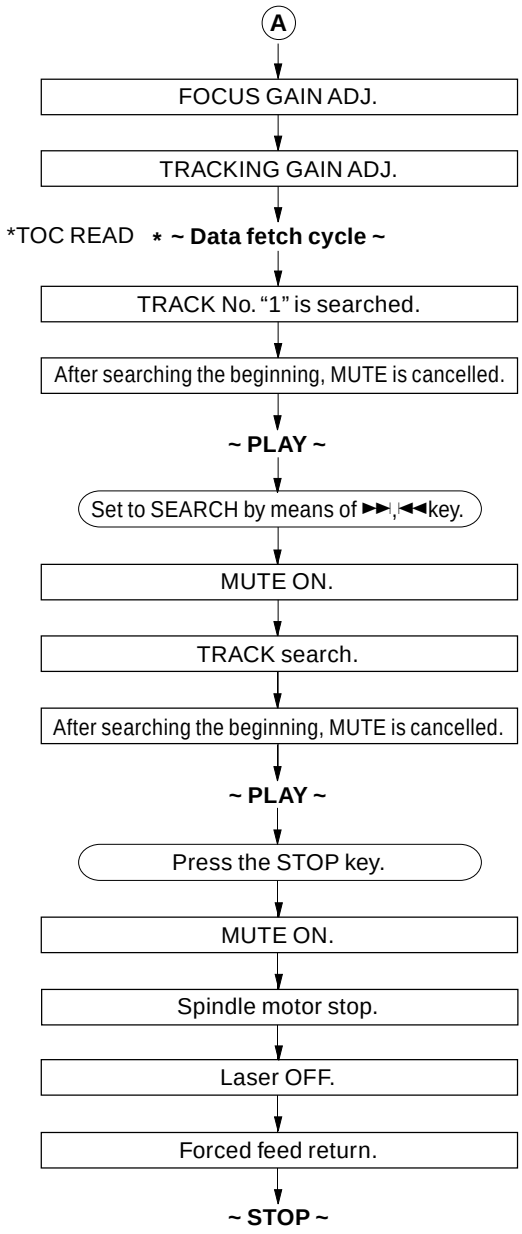
“DISC” ◯ from flashing to lighting.

Proceeds to next step after detection of CLAMP switch (SW400)

if FLSW = L (IC301, pin 21) Proceed to next step.

$\overline{\text{FLOCK}}$ = “H” → “L” (IC301, pin 8)

$\overline{\text{TLOCK}}$ = “H” → “L” (IC301, pin 7)



: MUTE OFF = "L" → "H", "0:00" appears on the display.
(IC301, pin 4)

: MUTE OFF = "H"→ "L"

: MUTE OFF = "L" → "H", "0:00" appears on the display.

: $\overline{\text{FLSW}}$ = "L" (IC301, pin 21)

■ 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.

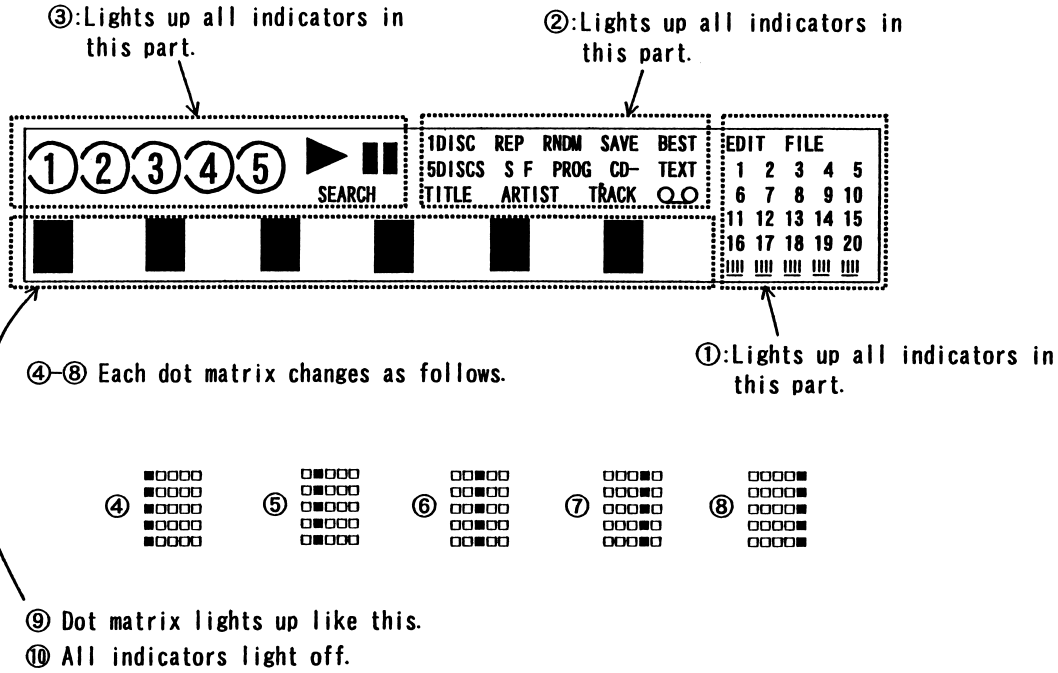
● Function List of Remote Control Transmitter

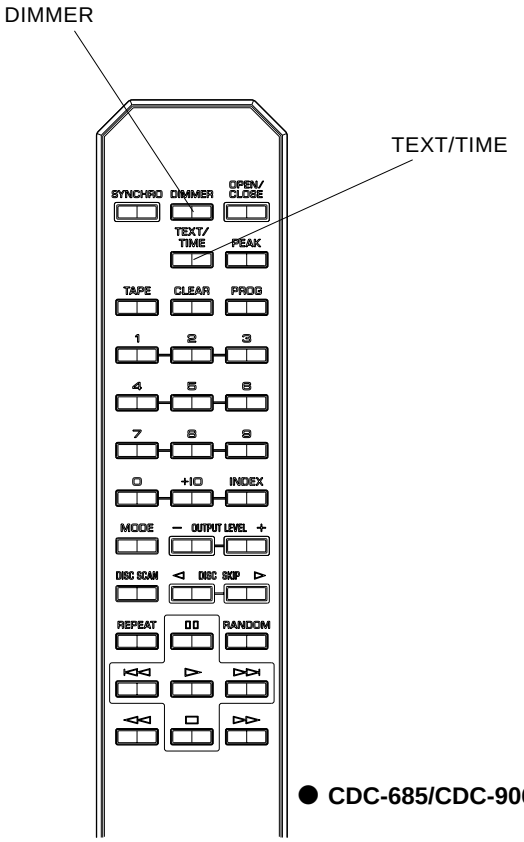
CUSTOM CODE = (79)x

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)	CDC-685/CDC-906 ONLY
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.





● **CDC-685/CDC-906**

■ 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 massage with same operation. (Except for CDC-585/CDC-506, which have no EEPROM.)

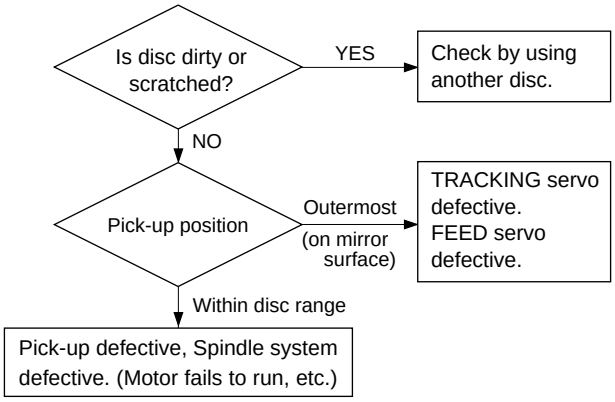
● Error Messages List

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.

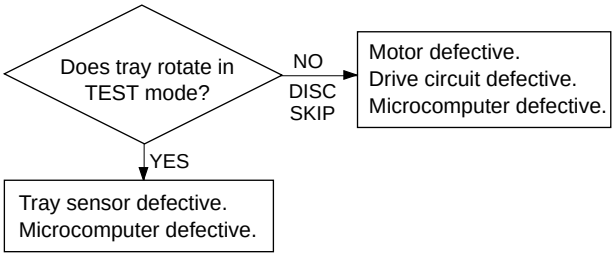
*** Meaning of each state (“X”) :**
(X = 0)PLAY
(X = 2)SCAN
(X = 3)PAUSE
(X = 4)PEAK SEARCH
(X = 5)SEARCH
(X = 6)DISC SCAN
(X = 7)START
(X = 8)STOP
(X = 9)DISC SEARCH
(X = –)EJECT
(X = C) ..... NO DISC

1) Error Code Troubleshooting

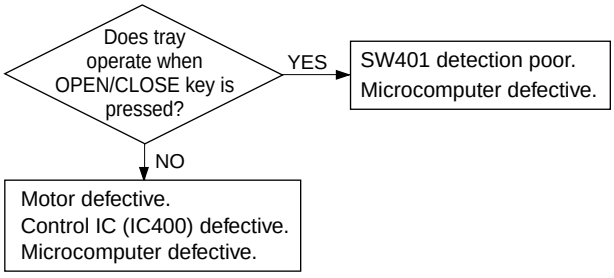
Error codes **X0**, **X1**, **73** **.....** Data cannot be read.



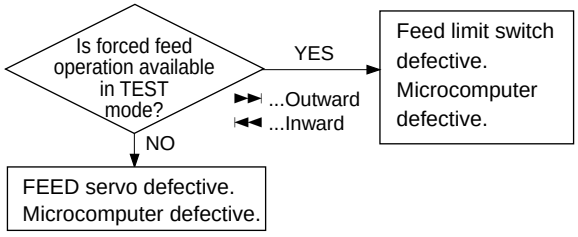
Error code **X6** **.....** Poor table rotation.



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

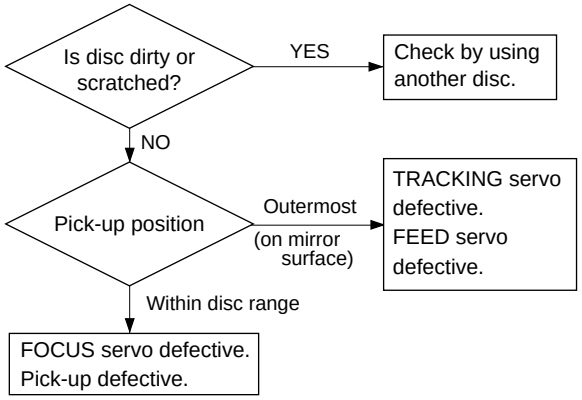


Error code **X7** **.....** FEED operation defective. (Limit switch fails)

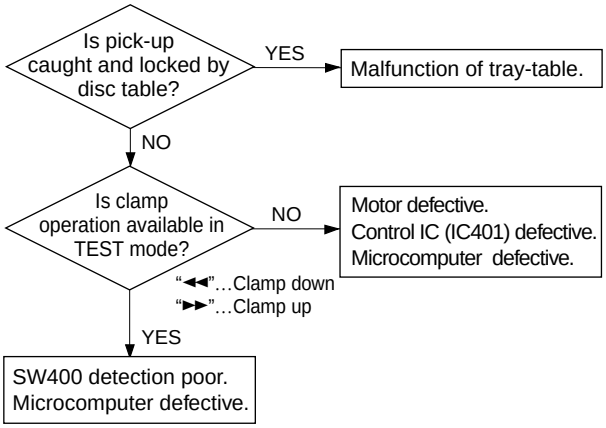


CDC-585/CDC-506
CDC-685/CDC-906

Error code **X8** ..... Focus drops.

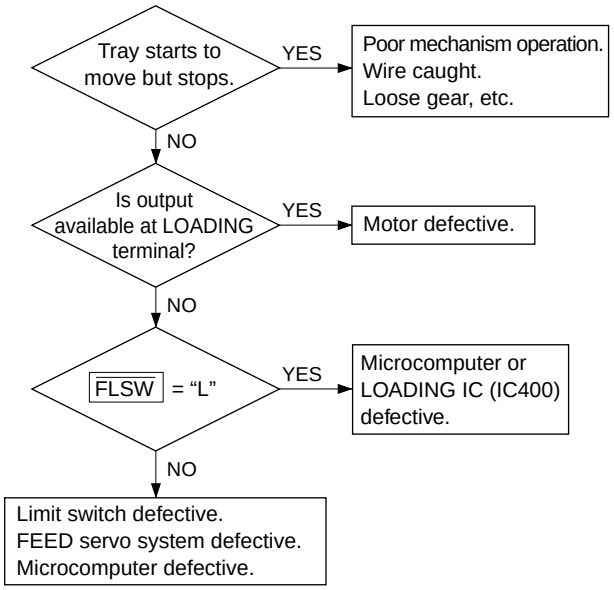


Error code **X9**, **XA** ..... Poor clamp operation.

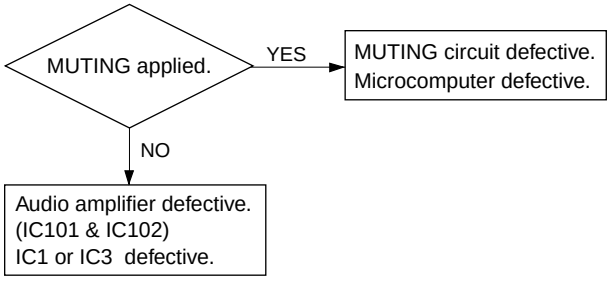


2) Troubleshooting from System Malfunctions.

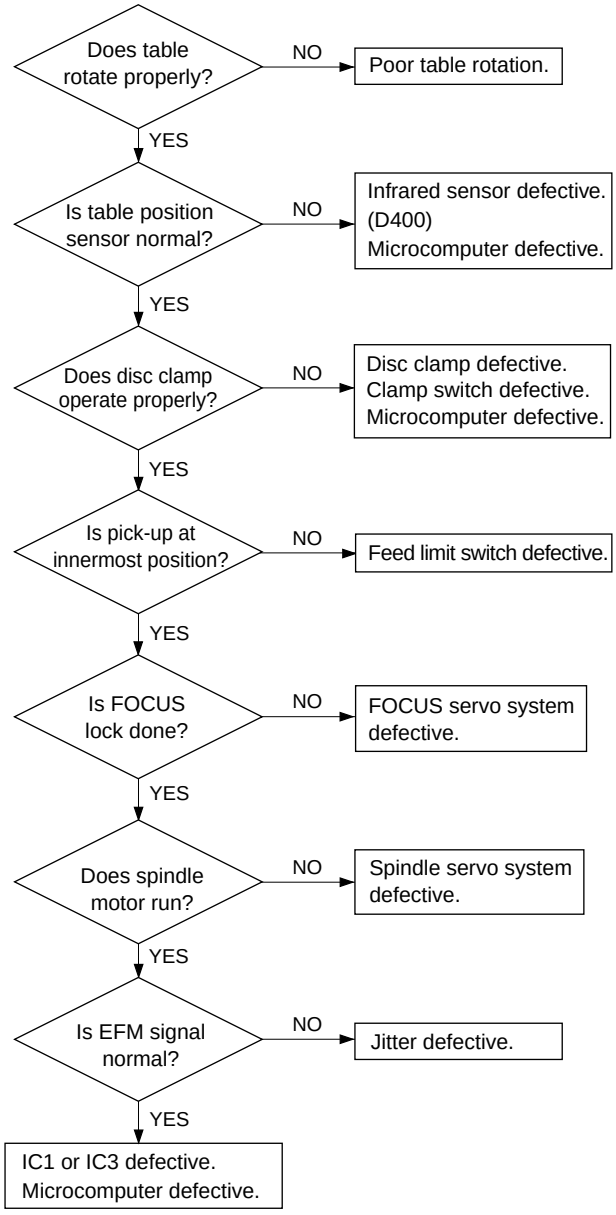
a) Tray fails to come out/go in.



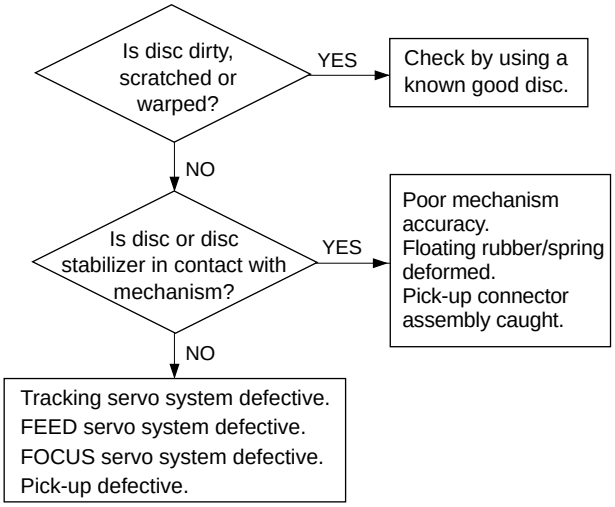
b) No sound generated, Sound cut during play. (but time display advanced properly)



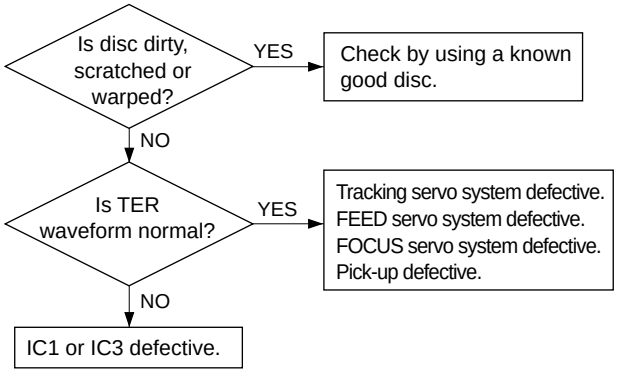
c) Operates as if no disc loaded.
(although loaded)



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



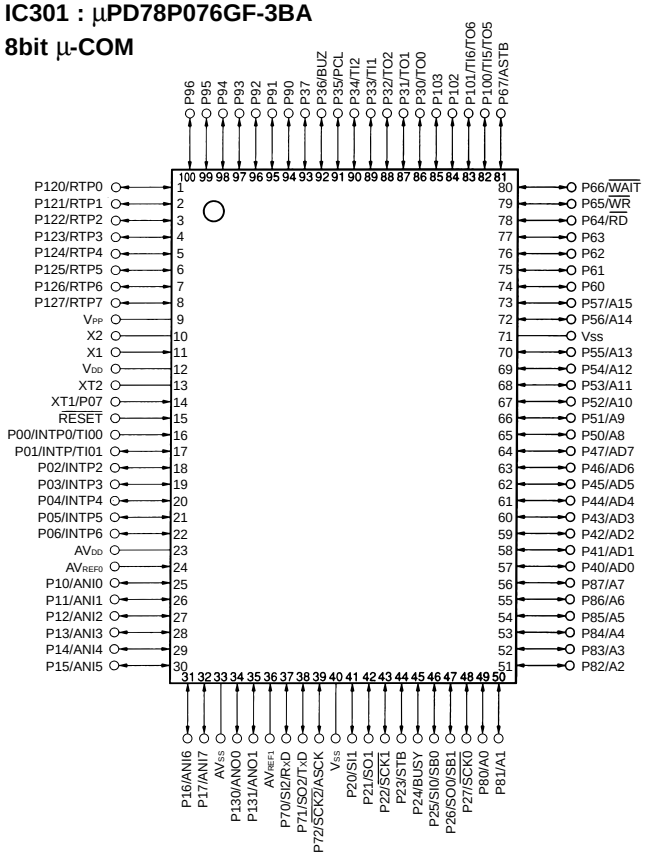
e) No search provided.
(Sound skipped after search)

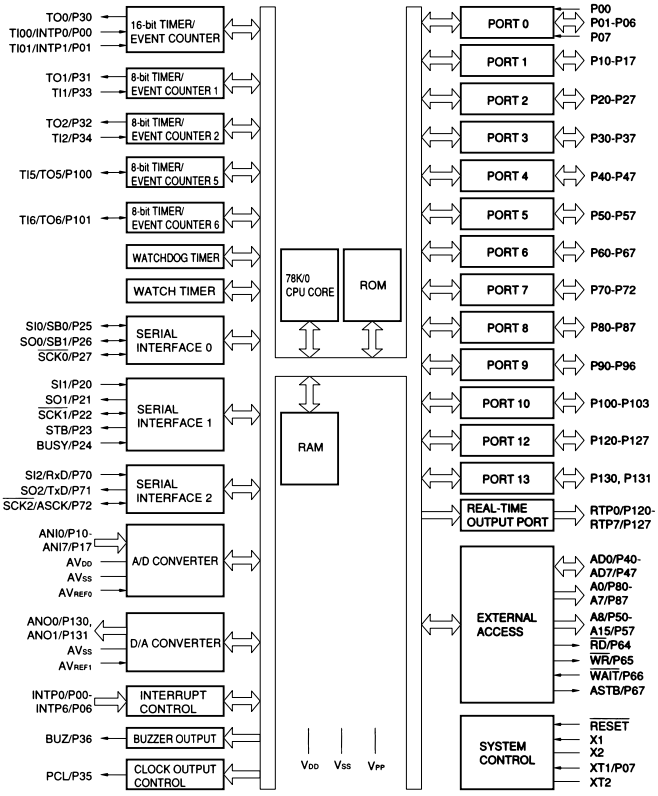


CDC-585/CDC-506
CDC-685/CDC-906

■ IC DATA

IC301 : μPD78P076GF-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	$\overline{RES}$	O	Hardware reset output of MN35511. Reset at “L”.
6	P125/RTP5	DMUTE	O	Mute output to MN35511. Muted at “H”.
7	P126/RTP6	$\overline{TLOCK}$	I	Tracking servo drawing signal input from MN35511. Drawn at “L”.
8	P127/RTP7	$\overline{FLOCK}$	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		+5V
13	XT2	XT2		N.C.
14	XT1/P07	XT1		GND
15	$\overline{RESET}$	$\overline{RESET}$	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	$\overline{CLDCK}$	I	MN35511 subcode frame clock
23	AVDD	AVDD		+5V
24	AVREF0	AVREF0		+5V
25	P10/ANI0	$\overline{PON}$	I	Power ON/OFF detect
26	P11/ANI1			N.C.
27	P12/ANI2			N.C.

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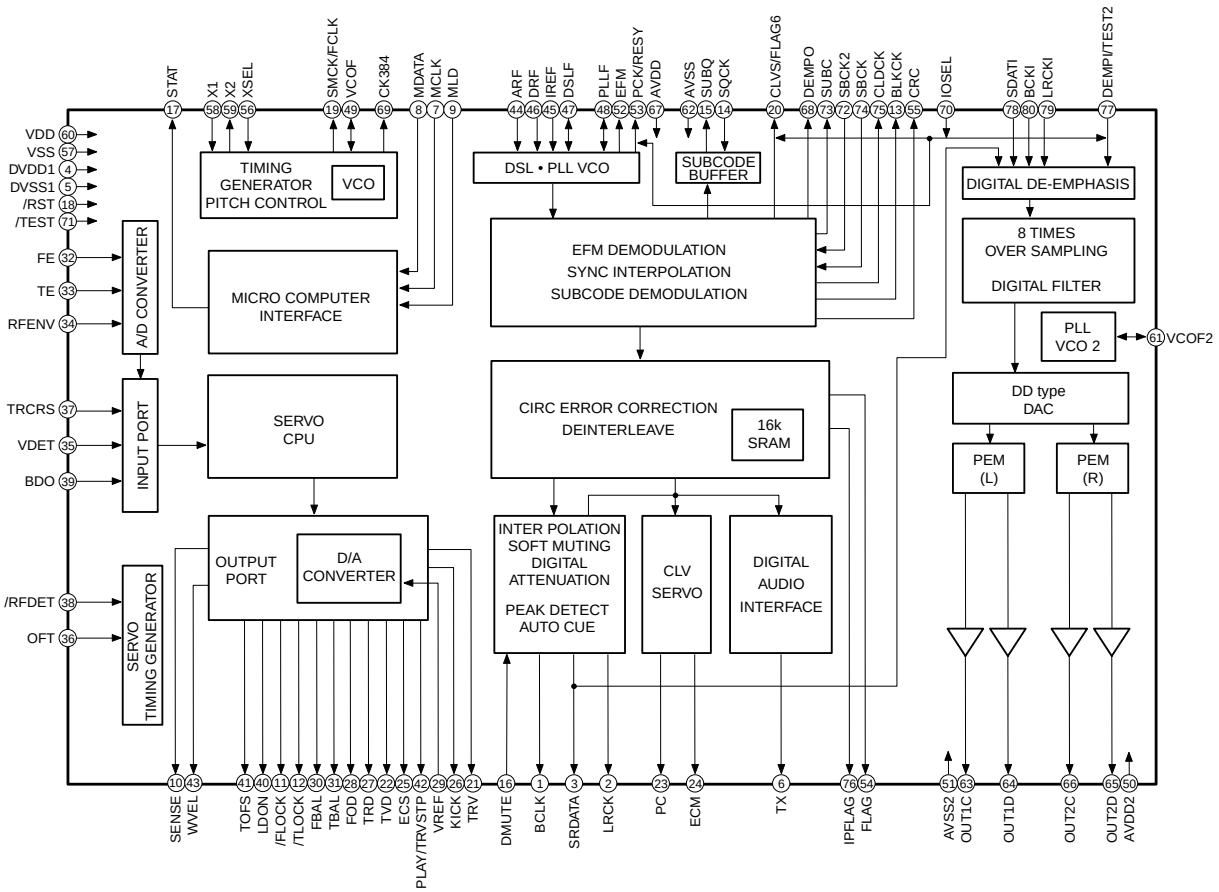
No.	Port	Name	I/O	Function
28	P13/ANI3			N.C.
29	P14/ANI4		I/O	EEPROM
30	P15/ANI5		O	EEPROM CLOCK
31	P16/ANI6			N.C.
32	P17/ANI7			
33	AVSS	AVSS		GND
34	P130/ANO0			N.C.
35	P131/ANO1	GCTRL	O	AN8849 gain control.
36	AVREF1			+5V
37	P70/S12/RXD	SUBQ	I	Serial I/F input (SUBQ)
38	P71/SO2/TXD	STAT	I	Status signal input from MN35511.
39	P72/$\overline{SCK2}$/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/$\overline{SCK1}$	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/$\overline{SCK0}$	MCLK	O	Serial I/F clock (MCLK/FL driver/EEPROM)
49	P80/A0	$\overline{CS}$	O	EEPROM chip select
50	P81/A1	CE	O	FL driver chip select
51	P82/A2	$\overline{BLK}$	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	P43AD3			
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/$\overline{RD}$	K0	I	
79	P65/$\overline{WR}$			N.C.
80	P66/$\overline{WAIT}$			N.C.

IC301 : μPD78P076GF-3BA
8bit μ-COM

No.	Port	Name	I/O	Function
81	P67/ASTB			N.C.
82	P100/TI5/TO5	TBL-L	O	Table couterclockwise 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	$\overline{\text{FLOCK}}$	O	Focus servo drawing signal (L : when drawn)
12	$\overline{\text{TLOCK}}$	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	$\overline{\text{RST}}$	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	$\overline{\text{RFDET}}$	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

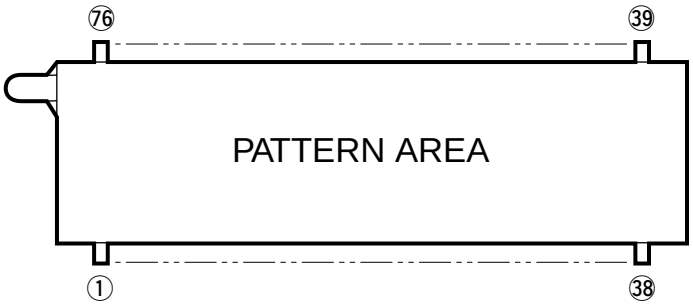
(Note 1) At the SMCK/FCLK pin, output does not stop while /RST=L.

IC3 : MN35511AL
Signal Processor & Controller

Pin No.	Name	I/O	Function
47	DSLF	I/O	Loop filter terminal for DSL
48	PLLF	I/O	Loop filter terminal for PLL
49	VCOF	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	VCOF2	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	$\overline{\text{TEST}}$	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	$\overline{\text{CLDCK}}$	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 DEMP0 When IOSEL=L, external DEMP1 input terminal For emphasis control, DEMP0, OR of DEMP1, DEMP1, forced OFF or forced ON is selected by command. When command is defaulted, DEMP0 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



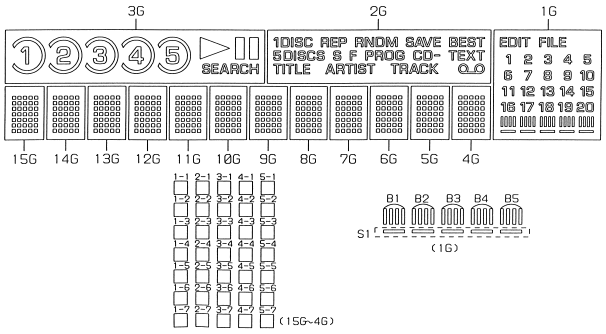
• PIN CONNECTION

PIN NO.	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77
CONNECTION	F11	F11	NP	NP	IC	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	NX	NX	NX	NX	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	NP	NP	F22	F22

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	36	37	38
CONNECTION	F11	F11	NP	NP	1G	1G	1G	1G	1G	1G	1G	1G	1G	1G	1G	1G	1G	1G	1G	1G	NX	NX	NX	NX	IC	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NP	NP	F22	F22

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



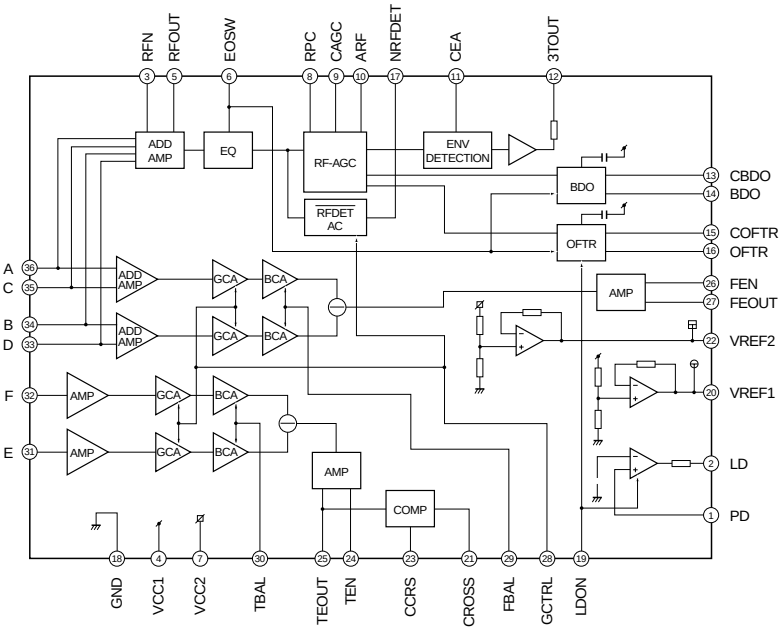
• ANODE CONNECTION

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

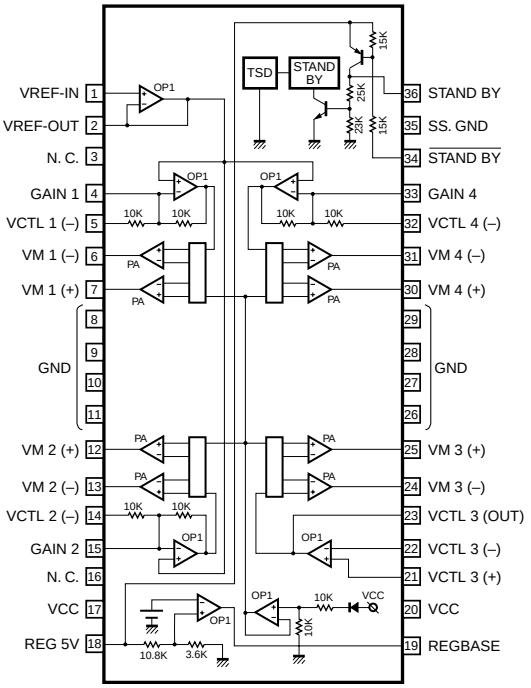
	15G~4G	3G	2G	1G
P19	4-4	-	-	19
P20	5-4	-	-	20
P21	1-5	-	-	EDIT
P22	2-5	-	-	FILE
P23	3-5	-	-	B1
P24	4-5	-	-	B2
P25	5-5	-	-	B3
P26	1-6	-	-	B4
P27	2-6	-	-	B5
P28	3-6	-	-	S1
P29	4-6	-	-	-
P30	5-6	-	-	-
P31	1-7	-	-	-
P32	2-7	-	-	-
P33	3-7	-	-	-
P34	4-7	-	-	-
P35	5-7	-	-	-

■ IC BLOCKS

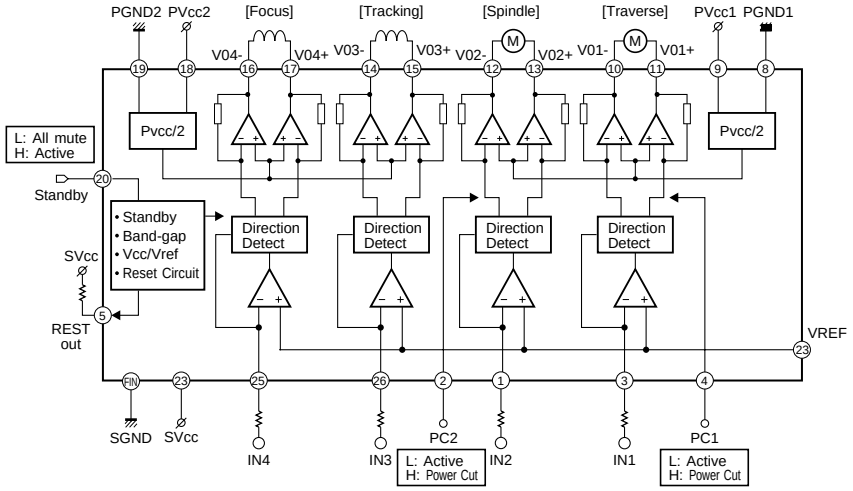
IC1 : AN8882SB
Digital Servo Head Amp



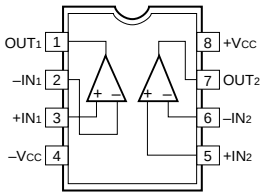
IC2 : AN4801SB
4-Channel BTL Driver



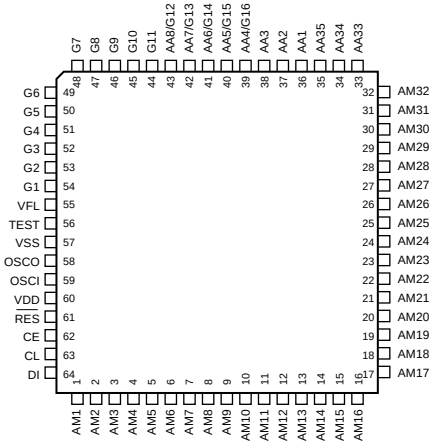
IC2 : AN4801SB
CD Driver

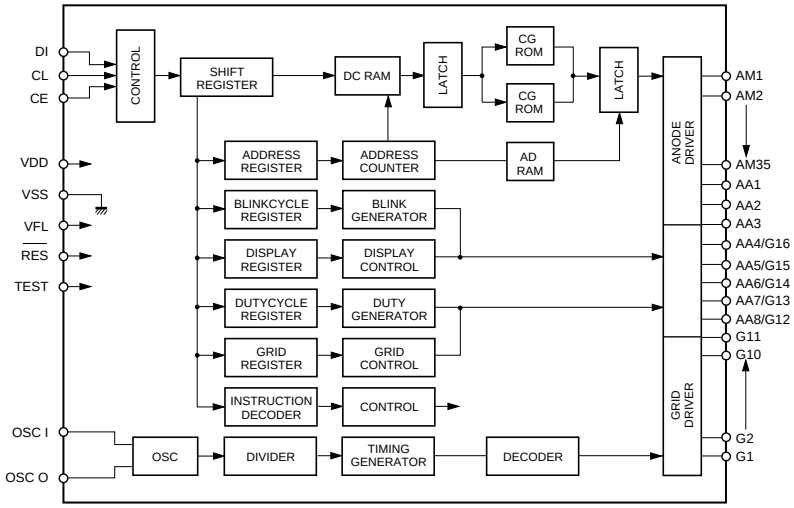


IC101, 102 : NJM2068D-D
IC105 : BA15218
Dual Op-Amp

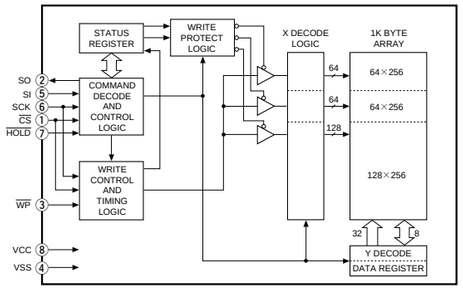


IC303 : LC75711NE
FL Driver

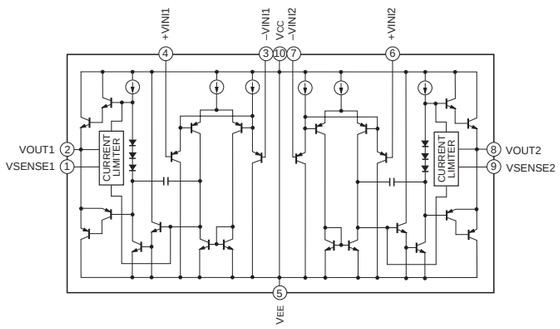




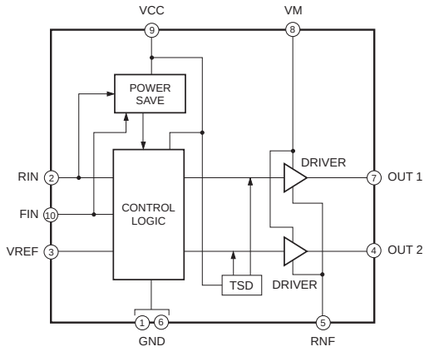
IC302 : S-24C01ADP
Electrically Erasable PROM



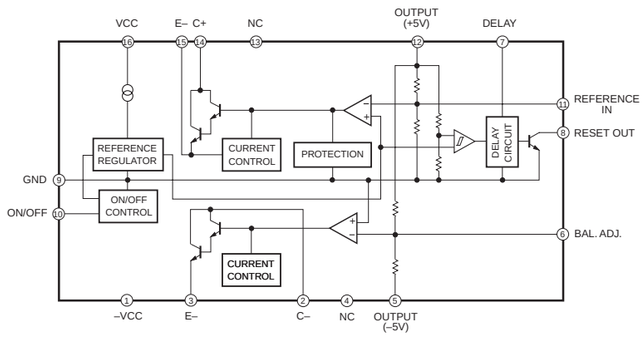
IC401 : LA6510
Dual Power Operational Amp



IC400 : BA6286
Motor Driver



IC200 : M5290P
Constant-Voltage Tracking Supply with Reset

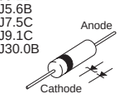


Other ICs

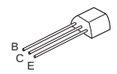
- **IC301 : µPD78P078GF-3BA** → See page 19
- **IC3 : MN35511** → See page 21

■ PIN CONNECTION DIAGRAM

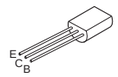
1SS133
1N4002S
MTZJ5.1B
MTZJ5.6B
MTZJ7.5C
MTZJ9.1C
MTZJ30.0B



2SA933S (Q,R)
2SC1740S (R,S)
2SD1915F (S,T)

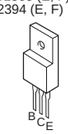


2SB544 (E,F,G)
2SC2878 (A, B)
2SD400 (E, F)

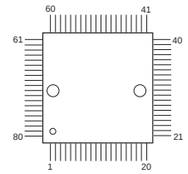


2SA1708(S,T)
2SC4488(S,T)

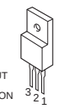
22SB1565 (E, F)
2SD2394 (E, F)



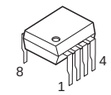
MN35511



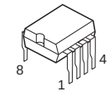
NJM7909F



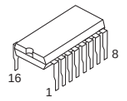
NJM2068D-D
NJM5532D



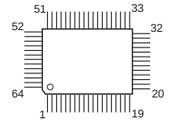
BA15218
X25642P



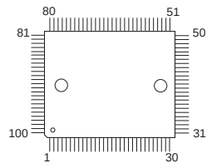
M5290P



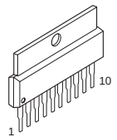
YAC514



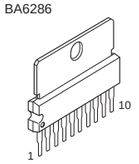
µPD78P078GF-3BA



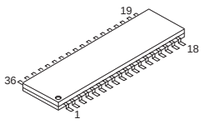
LA6510



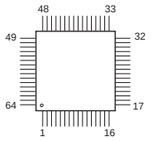
BA6286



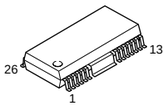
AN8849SB
M56748FP



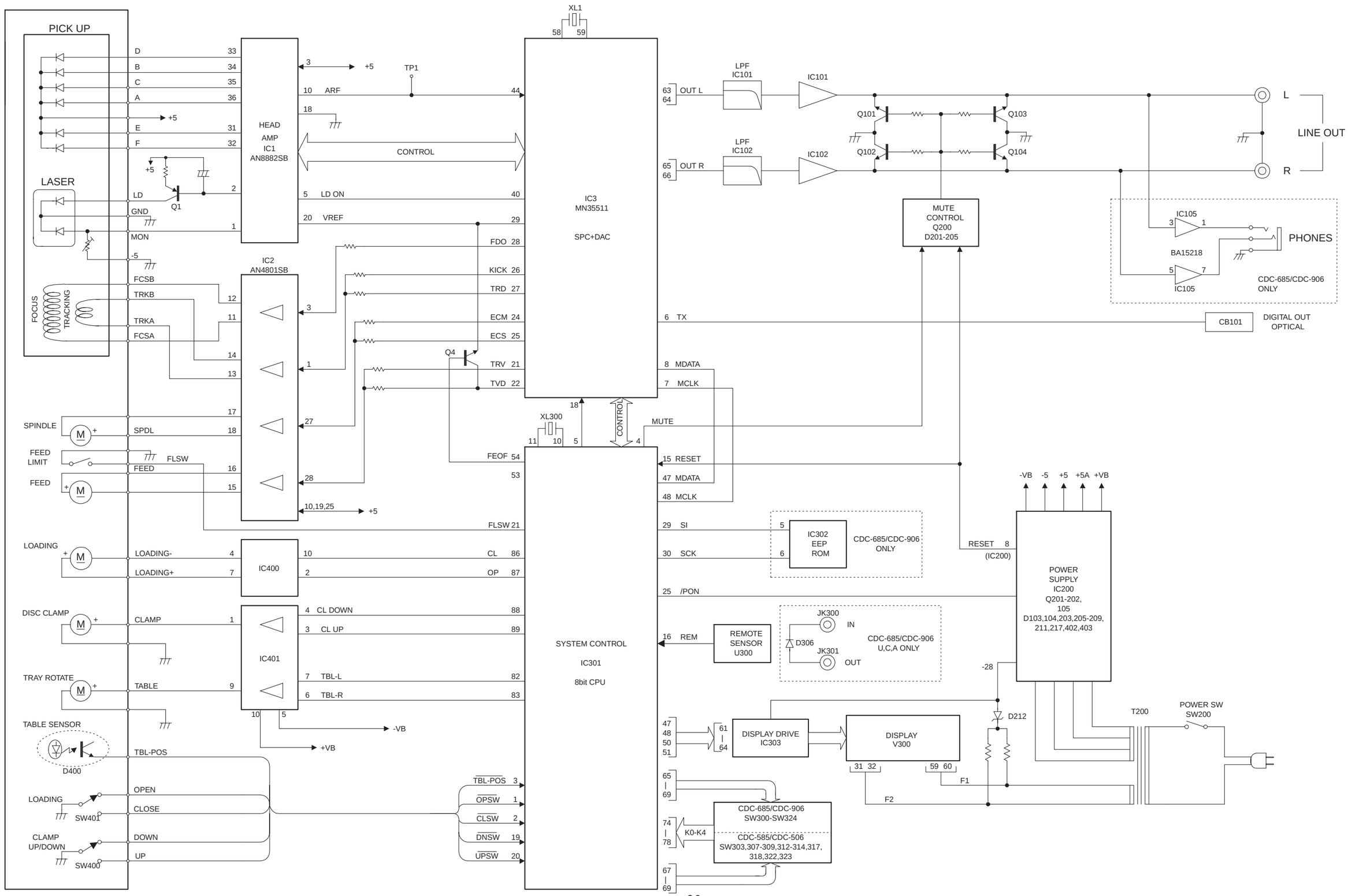
LC75711NE



AN4801SB



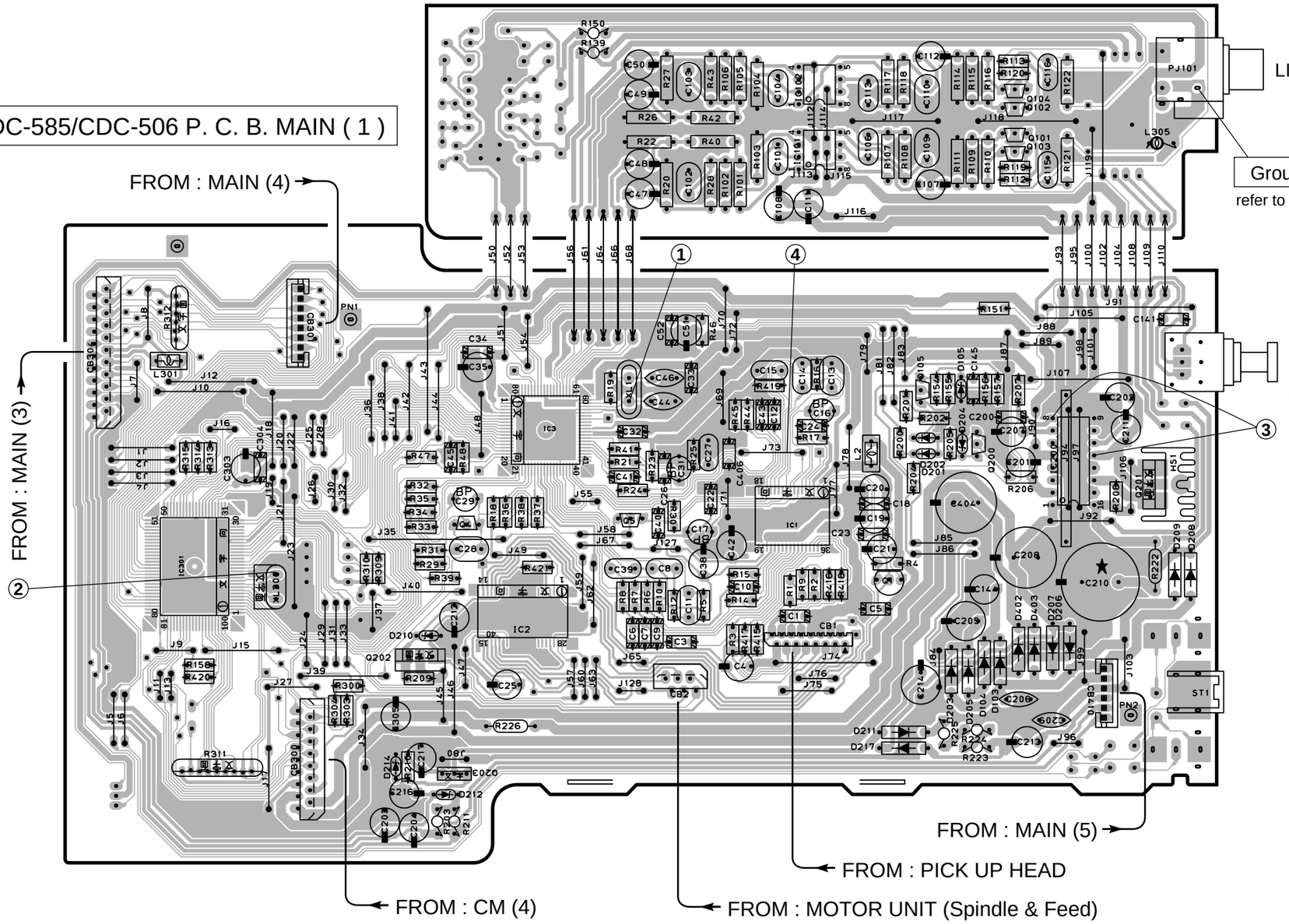
■ BLOCK DIAGRAM



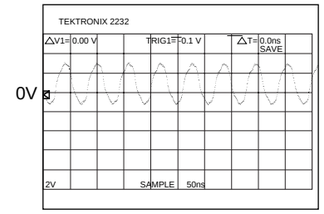
■ PRINTED CIRCUIT BOARD (Foil side)

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

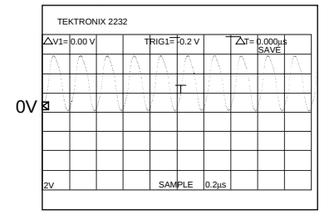
CDC-585/CDC-506 P. C. B. MAIN (1)



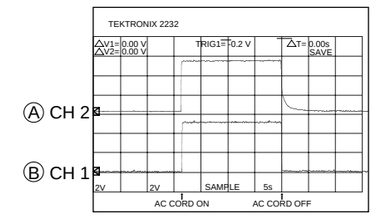
Point ① (Pin 59 of **I**C3)
V : 2V/div H : 50nsec/div
DC range 1 : 1 probe



Point ② (Pin 10 of **I**C301)
V : 2V/div H : 0.2µsec/div
DC range 1 : 1 probe

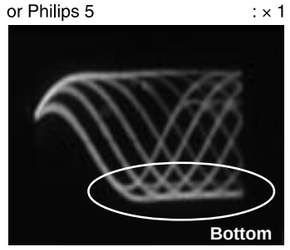


Point ③
(CH1 : Pin 8 of **I**C200
CH2 : Pin 12 of **I**C200)
V : 2V/div (CH 1) V : 2V/div (CH 2)
H : 5sec/div DC range 1 : 1 prode



Point ④

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

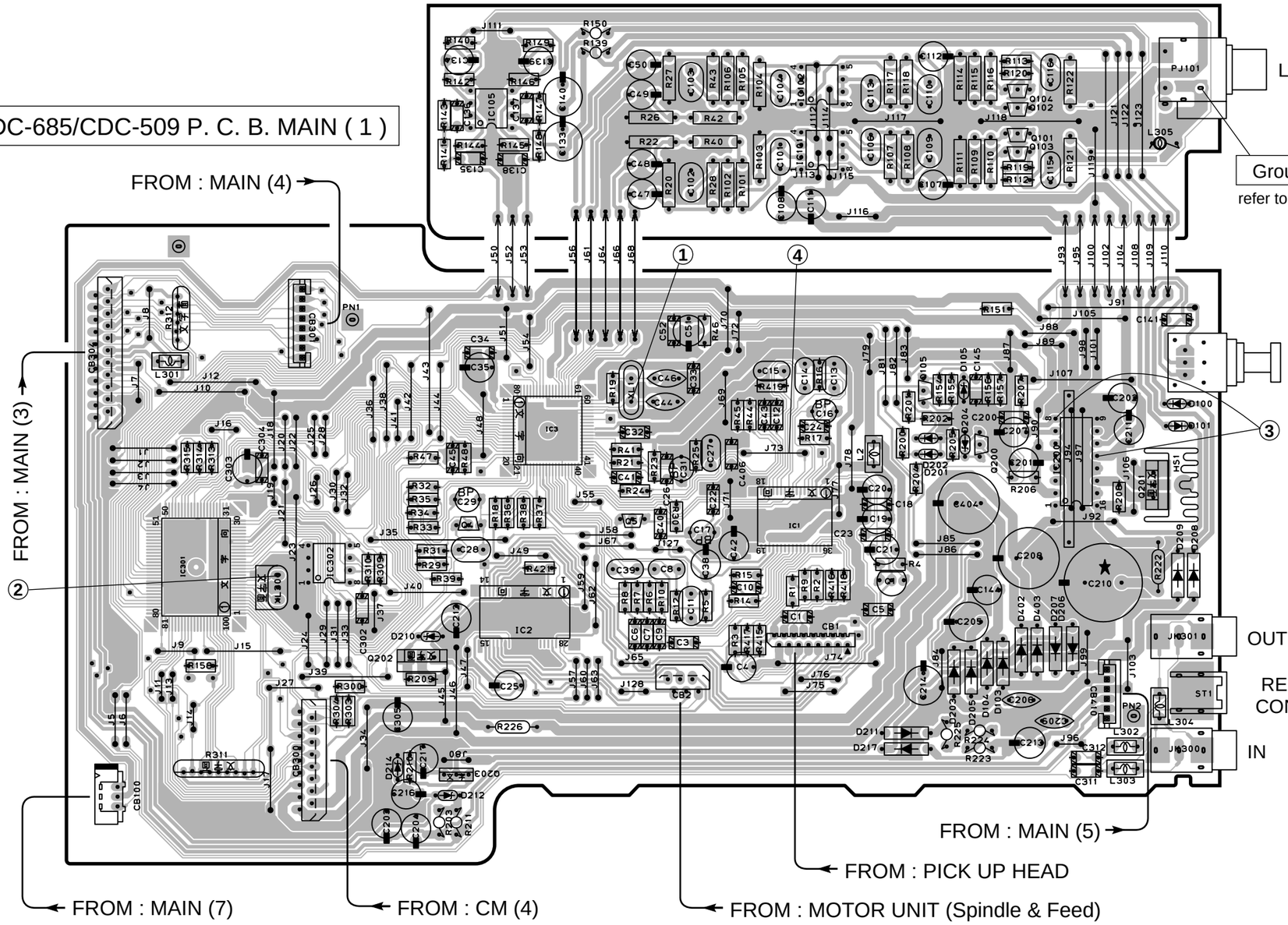


V : 0.2V/div H : 0.5µsec/div
AC range 1 : 1 prode

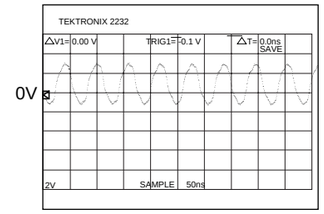
■ PRINTED CIRCUIT BOARD (Foil side)

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

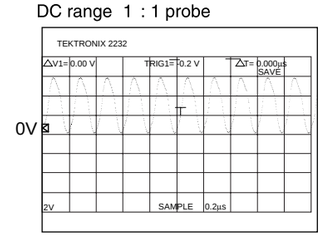
CDC-685/CDC-509 P. C. B. MAIN (1)



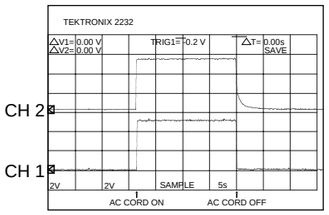
Point ① (Pin 59 of IC3)
V : 2V/div H : 50nsec/div
DC range 1 : 1 probe



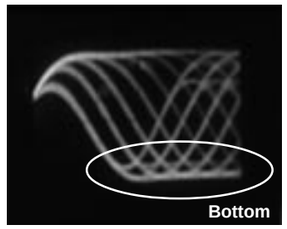
Point ② (Pin 10 of IC301)
V : 2V/div H : 0.2µsec/div
DC range 1 : 1 probe



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 prode



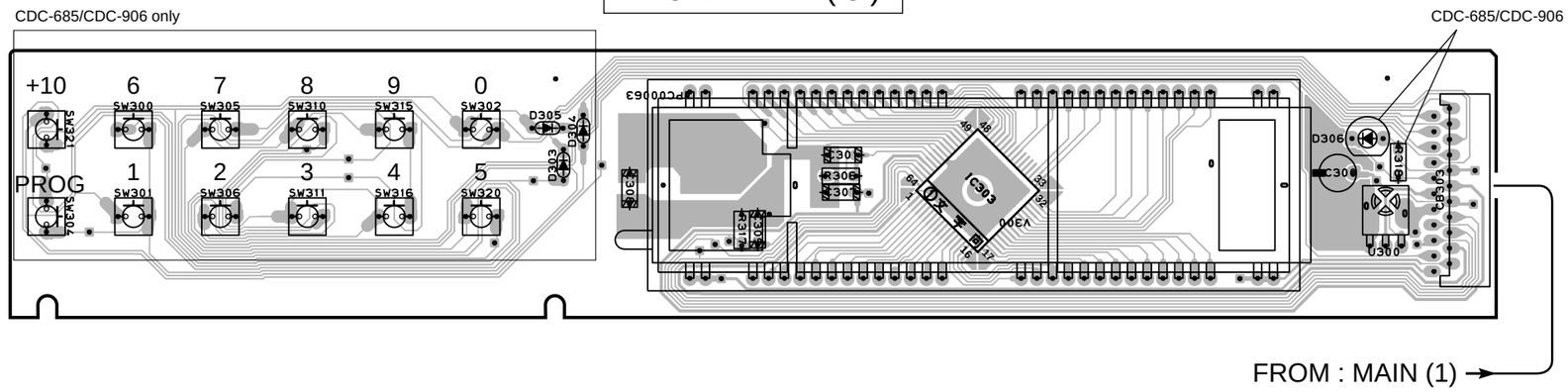
Point ④
Test disc
SONY YEDS-18 (P/No. TX911730),
A-BEX TCD-782 (P/No. TX913350)
or Philips 5 : × 1



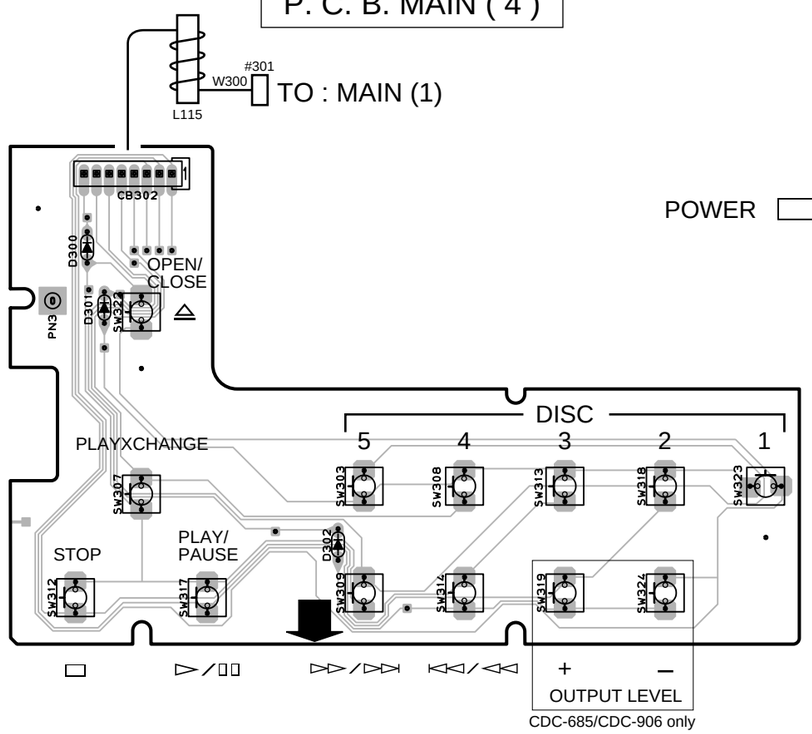
V : 0.2V/div H : 0.5µsec/div
AC range 1 : 1 prode

■ PRINTED CIRCUIT BOARD (Foil side)

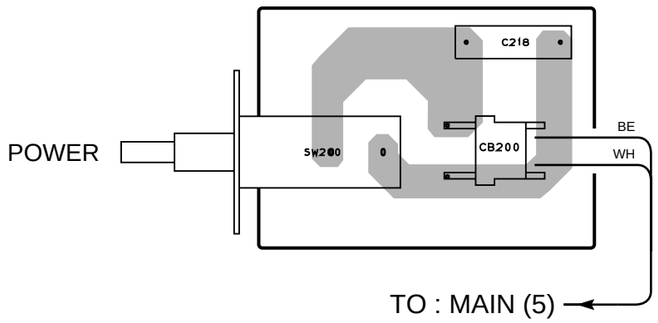
P. C. B. MAIN (3)



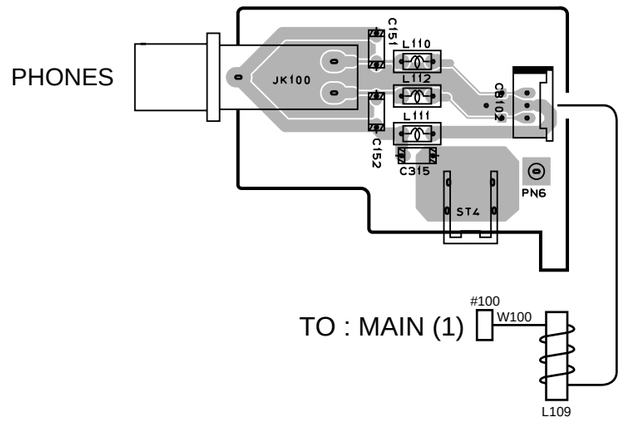
P. C. B. MAIN (4)



P. C. B. MAIN (6)

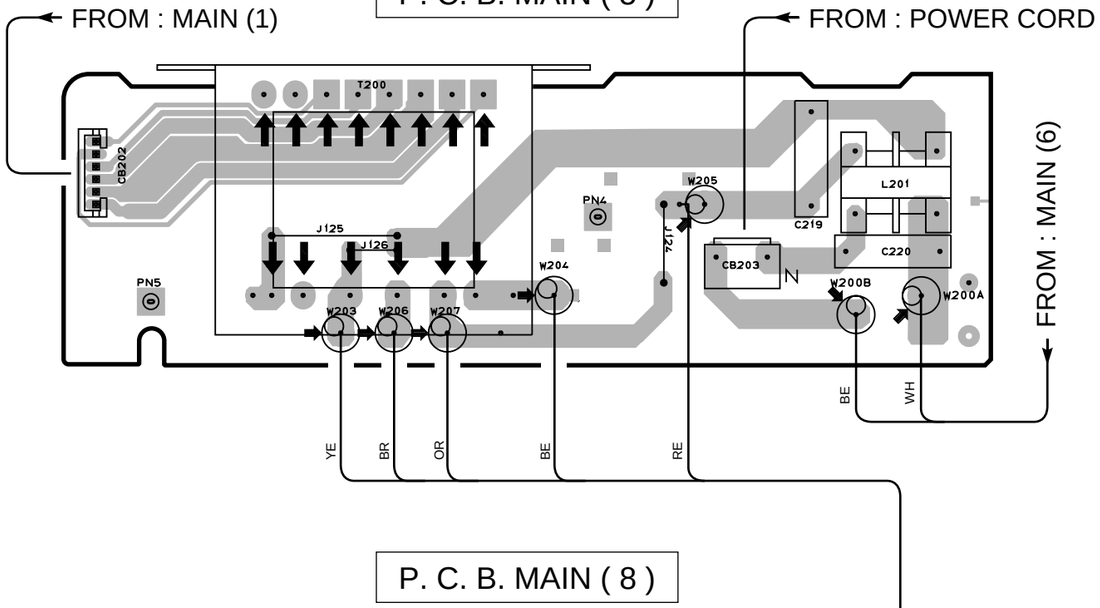


CDC-685/CDC-906
P. C. B. MAIN (7)

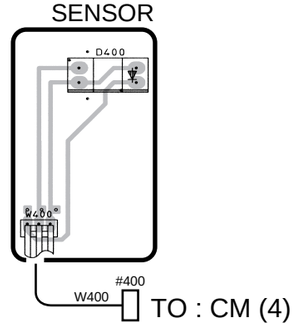


■ PRINTED CIRCUIT BOARD (Foil side)

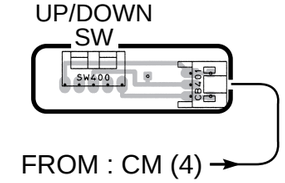
P. C. B. MAIN (5)



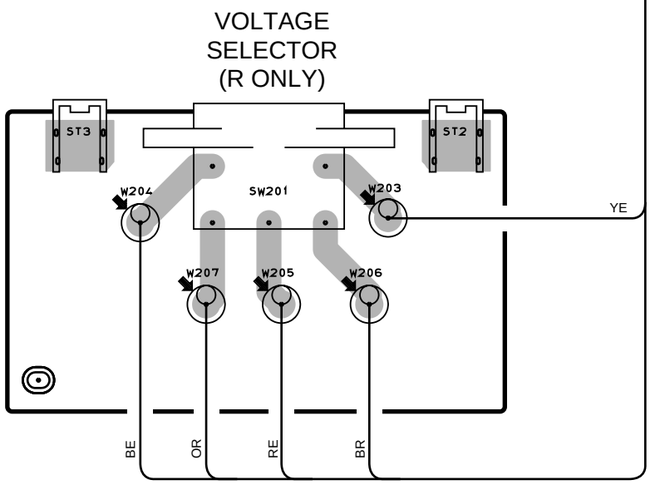
P. C. B. CM (1)



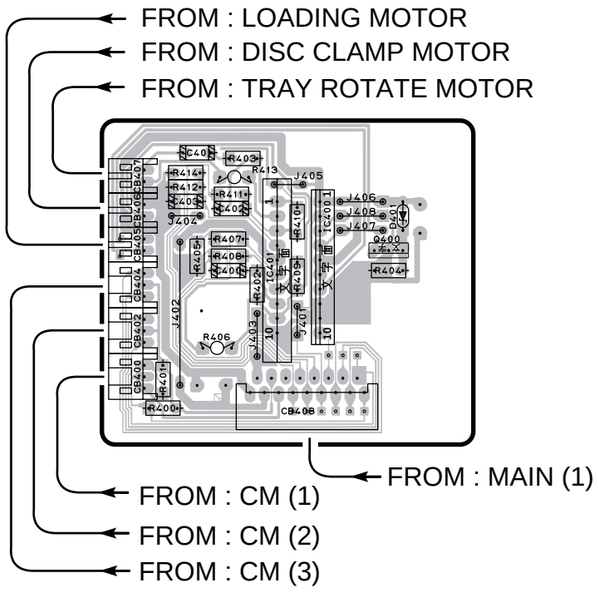
P. C. B. CM (2)



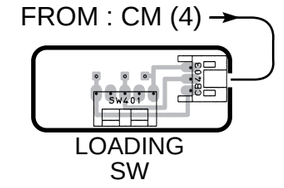
P. C. B. MAIN (8)



P. C. B. CM (4)

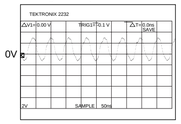


P. C. B. CM (3)

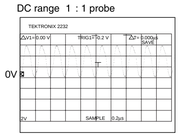


■ CDC-585/CDC-506 SCHEMATIC DIAGRAM

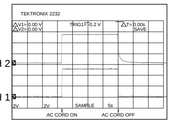
Point ① (Pin 59 of IC3)
V : 2V/div H : 50nsec/div
DC range 1 : 1 probe



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

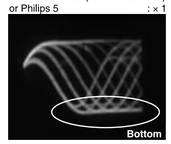


Point ③
CH1 : Pin 8 of IC200
CH2 : Pin 12 of IC200
V : 2V/div (CH 1) V : 2V/div (CH 2)
H : 5sec/div DC range 1 : 1 prode



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 prode

CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
❀	CERAMIC TUBULAR CAPACITOR
Ⓟ	POLYESTER FILM CAPACITOR
Ⓢ	POLYSTYRENE FILM CAPACITOR
Ⓜ	MICA CAPACITOR
Ⓟ	POLYPROPYLENE FILM CAPACITOR
◉	SEMICONDUCTIVE CERAMIC CAPACITOR

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/4S)
▽	CARBON FILM RESISTOR (1/4S)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
▽	METAL PLATE RESISTOR
◪	FIRE PROOF CARBON FILM RESISTOR
▢	CEMENT MOLDED RESISTOR
⊘	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

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

S		U, C	R	A	G
1	T200	XZ5334G	XZ5324G	XZ5344G	XZ5364G
2					
3	SW201	x	VG38810	x	x
4					
5					
6					
7					*
8					

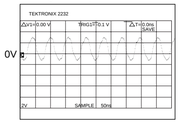
Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
&1	Q200	2SA933S(Q/R) 2SA1115(E/F) 2SA1309A(Q/R/S)
&2	D204	WTZJ5.1B HZ5SC1
&3	D210-212	WTZJ5.6B HZ5EA3
&4		
&5	D401	WTZJ7.5C HZ57C2
&6	D201-202-300-302	HSS104 1SS133 1SS176
&7		
&8		
&9	CB101	T0TX17B T0TX178A GP1F327
&10	Q1	2SB544(E/F/G) 2SA934(P/Q/R)
&11	Q105	2SC1740S(R/S) 2SC2603(E/F) 2SC3311A(Q/R/S)
&12		
&13		

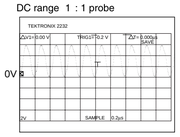
** All voltage are measured with a 10MΩ/V DC electric volt meter.*
** Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.*
** Schematic diagram is subject to change without notice.*

■ CDC-685/CDC-906 SCHEMATIC DIAGRAM

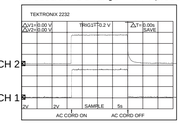
Point ① (Pin 59 of IC3)
V : 2V/div H : 50nsec/div
DC range 1 : 1 probe



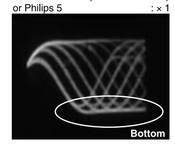
Point ② (Pin 10 of IC301)
V : 2V/div H : 0.2µsec/div
DC range 1 : 1 probe



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 prode



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 prode

CAPACITOR

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
❀	CERAMIC TUBULAR CAPACITOR
Ⓟ	POLYESTER FILM CAPACITOR
Ⓨ	POLYSTYRENE FILM CAPACITOR
Ⓜ	MICA CAPACITOR
Ⓟ	POLYPROPYLENE FILM CAPACITOR
◉	SEMICONDUCTIVE CERAMIC CAPACITOR

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1P-5S)
▯	CARBON FILM RESISTOR (1P-1S)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
▣	METAL PLATE RESISTOR
▤	FIRE PROOF CARBON FILM RESISTOR
▢	CEMENT MOLDED RESISTOR
◎	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

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

Interchangeable Parts at Manufacture-Stage

Mark	Reference Parts Number	Parts Name
⚠1	Q200	2SA933S(Q/R) 2SA1115(E/F) 2SA1309A(Q/R/S)
⚠2	D204	WTZJ5.1B HZ5SC1
⚠3	D210-212	WTZJ5.6B HZ5&3
⚠4		
⚠5	D401	WTZJ7.5C HZ57C2
⚠6	D100-101-201-202-300-305	HSS104 1SS133 1SS176
⚠7		
⚠8		
⚠9	CB101	TOTX178 TOTX178A GP1F32T
⚠10	Q1	2SB544(E/F/G) 2SA934(R/S/T)
⚠11	Q105	2SC1740S(R/S) 2SC2603(E/F) 2SC3311A(Q/R/S)
⚠12		
⚠13	IC105	BA15218 MSZ18AP

S		U.C	R	A	G
1	T200	XZ53340	XZ53240	XZ53440	XZ53640
2	L302-L303 L304	VD47370	×	VD47370	×
3	SW201	×	VG38810	×	×
4	R318	HF45710 10K	×	HF45710 10K	×
5	C311-C312	VJ59910	×	VJ59910	×
6	D306	VZ59820	×	VZ59820	×
7	JK300-301	VJ72680	×	VJ72680	×
8					

** All voltage are measured with a 10MΩ/V 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.*

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 resistors, refer to last page.

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS :

C.A.EL.CHP	:	CHIP ALUMI. ELECTROLYTIC CAP
C.CE	:	CERAMIC CAP
C.CE.ARRAY	:	CERAMIC CAP ARRAY
C.CE.CHP	:	CHIP CERAMIC CAP
C.CE.ML	:	MULTILAYER CERAMIC CAP
C.CE.M.CHP	:	CHIP MULTILAYER CERAMIC CAP
C.CE.SAFTY	:	RECOGNIZED CERAMIC CAP
C.CE.TUBLR	:	CERAMIC TUBULAR CAP
C.CE.SMI	:	SEMI CONDUCTIVE CERAMIC CAP
C.EL	:	ELECTROLYTIC CAP
C.MICA	:	MICA CAP
C.ML.FLM	:	MULTILAYER FILM CAP
C.MP	:	METALLIZED PAPER CAP
C.MYLAR	:	MYLAR FILM CAP
C.MYLAR.ML	:	MULTILAYER MYLAR FILM CAP
C.PAPER	:	PAPER CAPACITOR
C.PLS	:	POLYSTYRENE FILM CAP
C.POL	:	POLYESTER FILM CAP
C.POLY	:	POLYETHYLENE FILM CAP
C.PP	:	POLYPROPYLENE FILM CAP
C.TNTL	:	TANTALUM CAP
C.TNTL.CHP	:	CHIP TANTALUM CAP
C.TRIM	:	TRIMMER CAP
CN	:	CONNECTOR
CN.BS.PIN	:	CONNECTOR, BASE PIN
CN.CANNON	:	CONNECTOR, CANNON
CN.DIN	:	CONNECTOR, DIN
CN.FLAT	:	CONNECTOR, FLAT CABLE
CN.POST	:	CONNECTOR, BASE POST
COIL.MX.AM	:	COIL, AM MIX
COIL.AT.FM	:	COIL, FM ANTENNA
COIL.DT.FM	:	COIL, FM DETECT
COIL.MX.FM	:	COIL, FM MIX
COIL.OUTPT	:	OUTPUT COIL
DIOD.ARRAY	:	DIODE ARRAY
DIODE.BRG	:	DIODE BRIDGE
DIODE.CHP	:	CHIP DIODE
DIODE.VAR	:	VARACTOR DIODE
DIOD.Z.CHP	:	CHIP ZENER DIODE
DIODE.ZENR	:	ZENER DIODE
DSCR.CE	:	CERAMIC DISCRIMINATOR
FER.BEAD	:	FERRITE BEADS
FER.CORE	:	FERRITE CORE
FET.CHP	:	CHIP FET
FL.DSPLY	:	FLUORESCENT DISPLAY
FLTR.CE	:	CERAMIC FILTER
FLTR.COMB	:	COMB FILTER MODULE
FLTR.LC.RF	:	LC FILTER ,EMI
GND.MTL	:	GROUND PLATE
GND.TERM	:	GROUND TERMINAL
HOLDER.FUS	:	FUSE HOLDER
IC.PRTCT	:	IC PROTECTOR
JUMPER.CN	:	JUMPER CONNECTOR
JUMPER.TST	:	JUMPER, TEST POINT
L.DTCT	:	LIGHT DETECTING MODULE
L.EMIT	:	LIGHT EMITTING MODULE
LED.DSPLY	:	LED DISPLAY
LED.INFRD	:	LED, INFRARED
MODUL.RF	:	MODULATOR, RF
PHOT.CPL	:	PHOTO COUPLER
PHOT.INTR	:	PHOTO INTERRUPTER
PHOT.RFLCT	:	PHOTO REFLECTOR
PIN.TEST	:	PIN, TEST POINT
PLST.RIVET	:	PLASTIC RIVET
R.ARRAY	:	RESISTOR ARRAY
R.CAR	:	CARBON RESISTOR
R.CAR.CHP	:	CHIP RESISTOR
R.CAR.FP	:	FLAME PROOF CARBON RESISTOR
R.FUS	:	FUSABLE RESISTOR
R.MTL.CHP	:	CHIP METAL FILM RESISTOR
R.MTL.FLM	:	METAL FILM RESISTOR
R.MTL.OXD	:	METAL OXIDE FILM RESISTOR
R.MTL.PLAT	:	METAL PLATE RESISTOR
RSNR.CE	:	CERAMIC RESONATOR
RSNR.CRYS	:	CRYSTAL RESONATOR
R.TW.CEM	:	TWIN CEMENT FIXED RESISTOR
R.WW	:	WIRE WOUND RESISTOR
SCR.BND.HD	:	BIND HEAD B-TITE SCREW
SCR.BW.HD	:	BW HEAD TAPPING SCREW
SCR.CUP	:	CUP TITE SCREW
SCR.TERM	:	SCREW TERMINAL
SCR.TR	:	SCREW, TRANSISTOR
SUPRT.PCB	:	SUPPORT, P.C.B.
SURG.PRTCT	:	SURGE PROTECTOR
SW.TACT	:	TACT SWITCH
SW.LEAF	:	LEAF SWITCH
SW.LEVER	:	LEVER SWITCH
SW.MICRO	:	MICRO SWITCH
SW.PUSH	:	PUSH SWITCH
SW.RT.ENC	:	ROTARY ENCODER
SW.RT.MTR	:	ROTARY SWITCH WITH MOTOR
SW.RT	:	ROTARY SWITCH
SW.SLIDE	:	SLIDE SWITCH
TERM.SP	:	SPEAKER TERMINAL
TERM.WRAP	:	WRAPPING TERMINAL
THRMST.CHP	:	CHIP THERMISTOR
TR.CHP	:	CHIP TRANSISTOR
TR.DGT	:	DIGITAL TRANSISTOR
TR.DGT.CHP	:	CHIP DIGITAL TRANSISTOR
TRANS	:	TRANSFORMER
TRANS.PULS	:	PULSE TRANSFORMER
TRANS.PWR	:	POWER TRANSFORMER ASS'y
TUNER.AM	:	TUNER PACK, AM
TUNER.FM	:	TUNER PACK, FM
TUNER.PK	:	FRONT-END TUNER PACK
VR	:	ROTARY POTENTIOMETER
VR.MTR	:	POTENTIOMETER WITH MOTOR
VR.SW	:	POTENTIOMETER WITH ROTARY SW
VR.SLIDE	:	SLIDE POTENTIOMETER
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	SDDLD1-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	SDDLD1-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

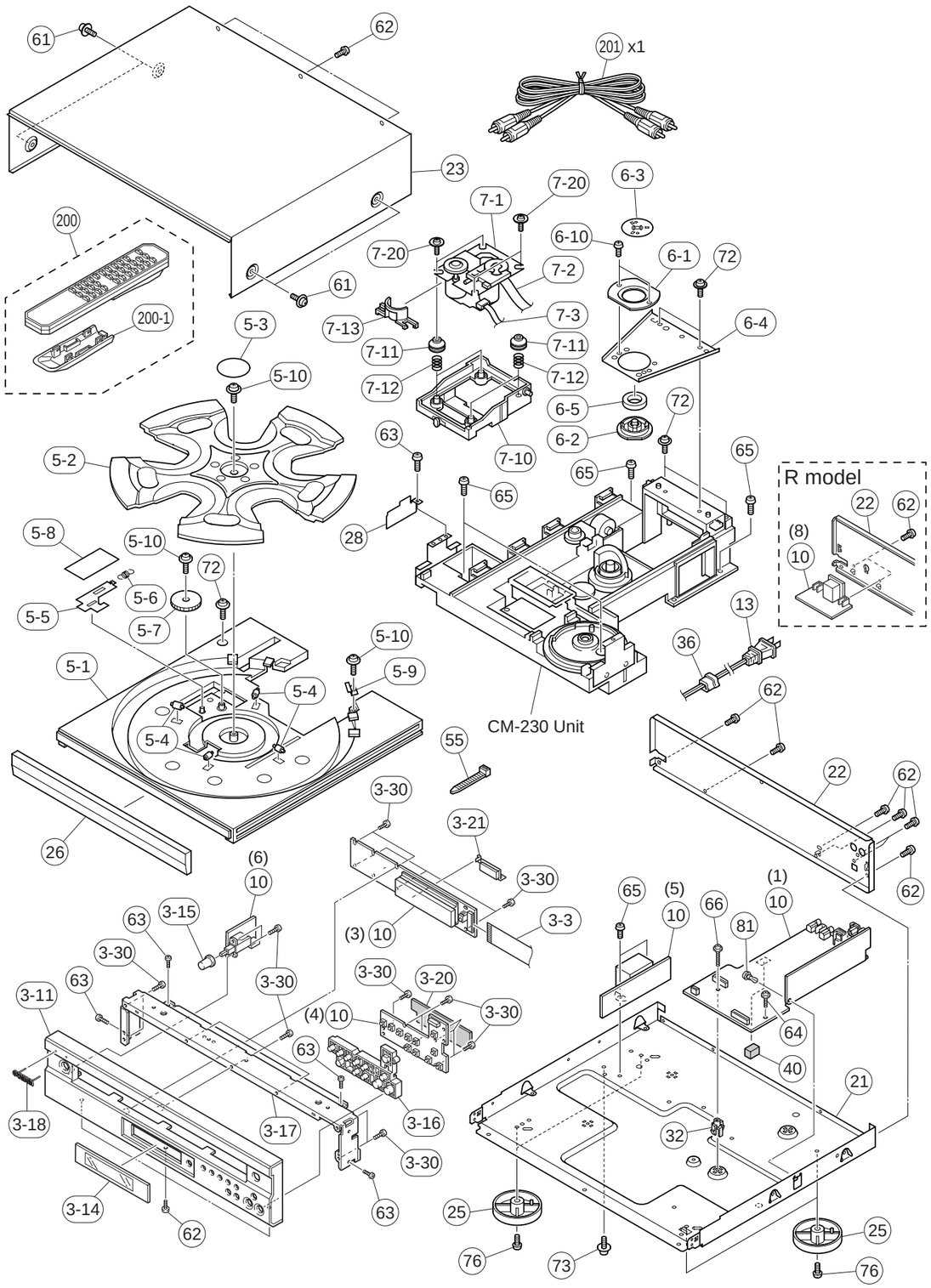
＊New Parts

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

■ CDC-585/CDC-506 EXPLODED VIEW



■ MECHANICAL PARTS (CDC-585/CDC-506)

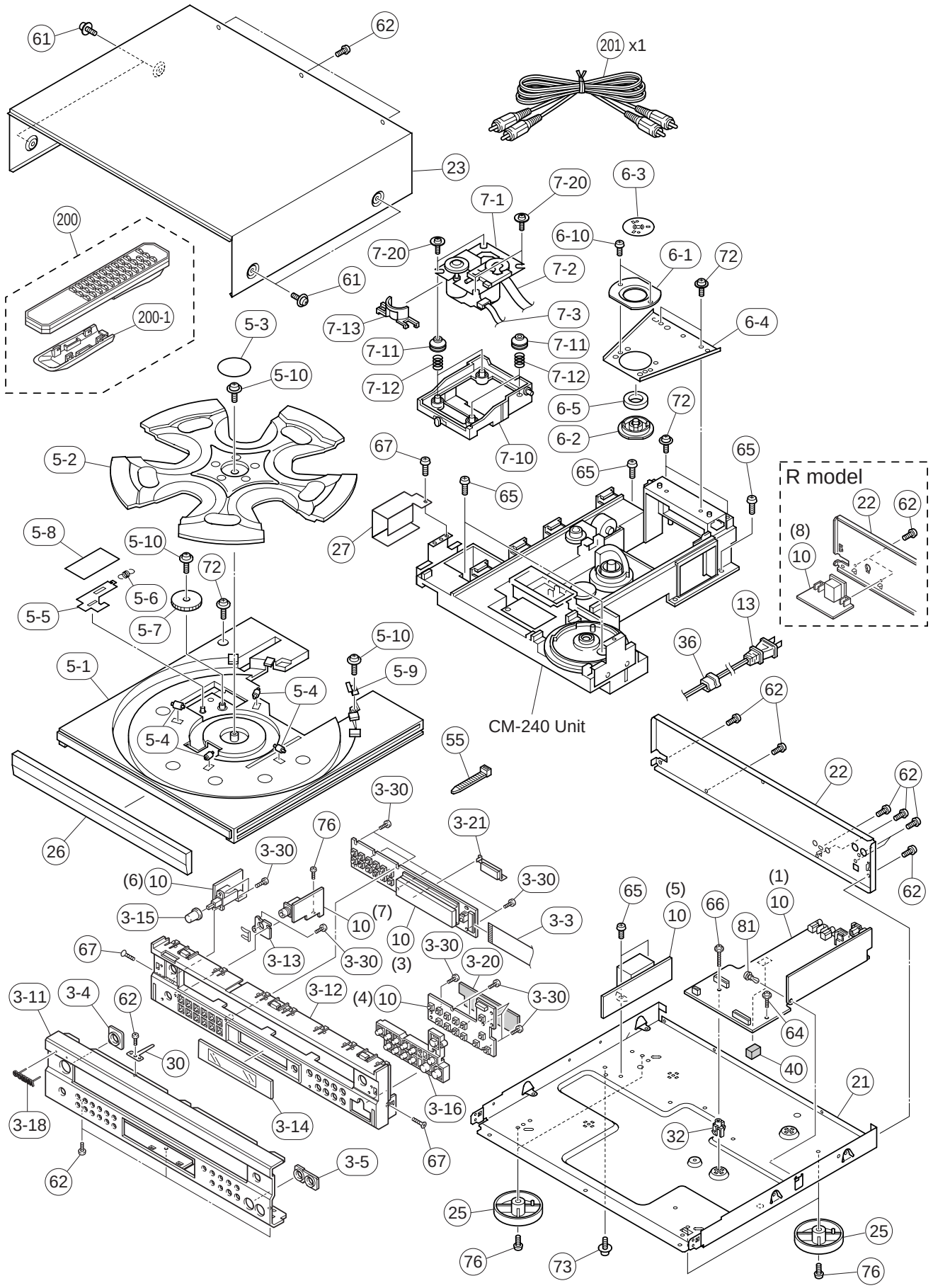
	Ref. No.	PART NO.	Description	Remarks	Markets
*	3-3	MF122300	FLEXIBLE FLAT CABLE 22P 300mm P=1.25		
*	3-11	V6401800	FRONT PANEL	CDC-506GP	
*	3-11	V6401700	FRONT PANEL	CDC-585BL	
*	3-14	V6402300	SHEET/WINDOW		
	3-15	V5914500	BUTTON/D12	CDC-585BL	
	3-15	V5914700	BUTTON/D12	CDC-506GP	
*	3-16	V6402400	BUTTON 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 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	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

■ CDC-685/CDC-906 EXPLODED VIEW



■ MECHANICAL PARTS (CDC-685/CDC-906)

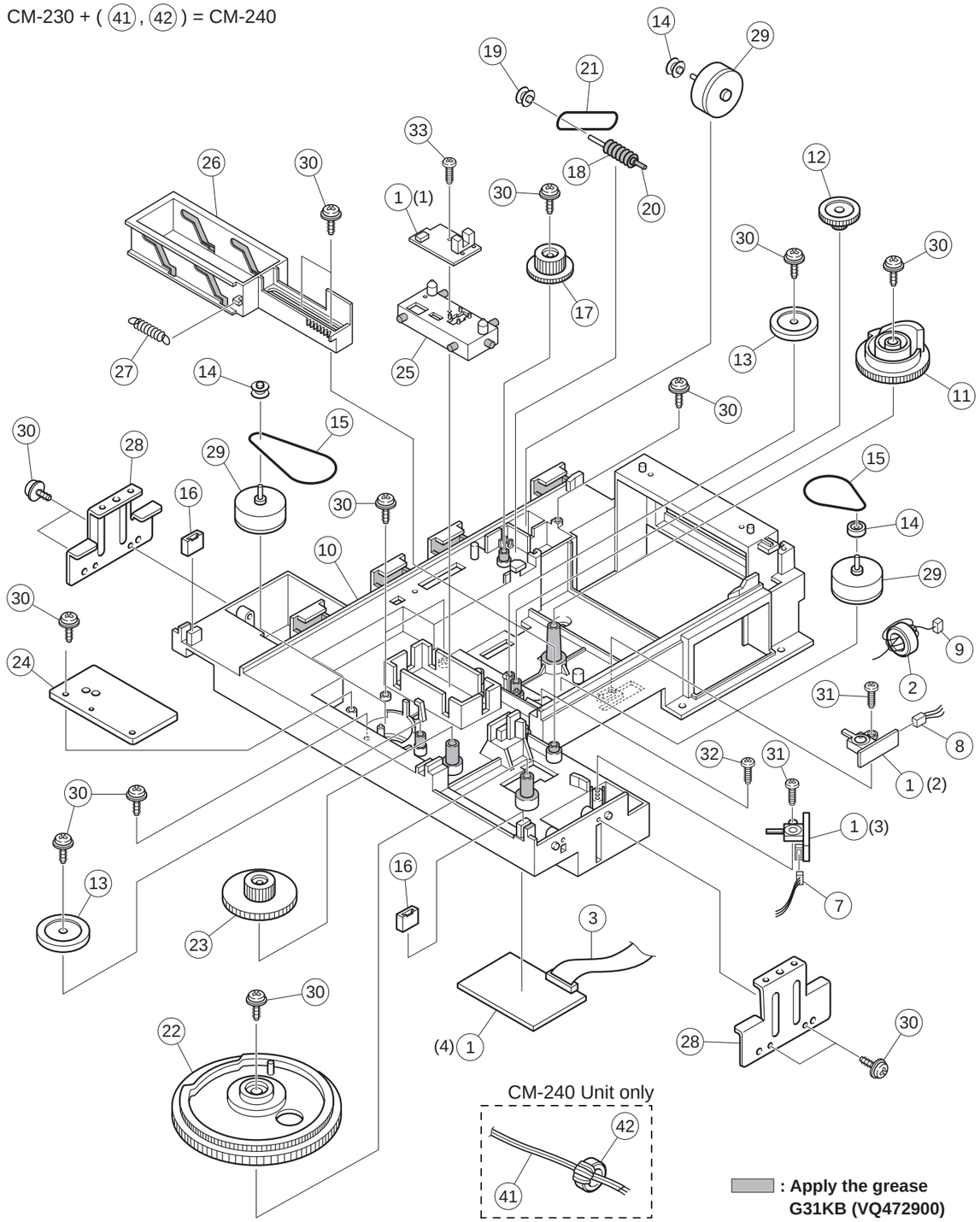
	Ref. No.	PART NO.	Description	Remarks	Markets
*	3-3	MF122300	FLEXIBLE FLAT CABLE 22P 300mm P=1.25		
*	3-4	V6998100	ESCUTCHEON/PW	CDC-685TI	
	3-4	V6094800	ESCUTCHEON/PW	CDC-685BL,906GP	
*	3-5	V6997800	ESCUTCHEON	CDC-685BL,906GP	
*	3-5	V6998000	ESCUTCHEON	CDC-685TI	
*	3-11	V6401400	FRONT PANEL	CDC-685BL	
*	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)
⚠*	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	CDC-685BL,TI	
	25	VQ982800	LEG D60xH16	CDC-906GP	
*	26	V6638900	LID	CDC-685BL	
*	26	V6639000	LID	CDC-685TI	
*	26	V6639100	LID	CDC-906GP	
*	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

＊New Parts

■ EXPLODED VIEW (CM-230/CM-240 Unit)

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



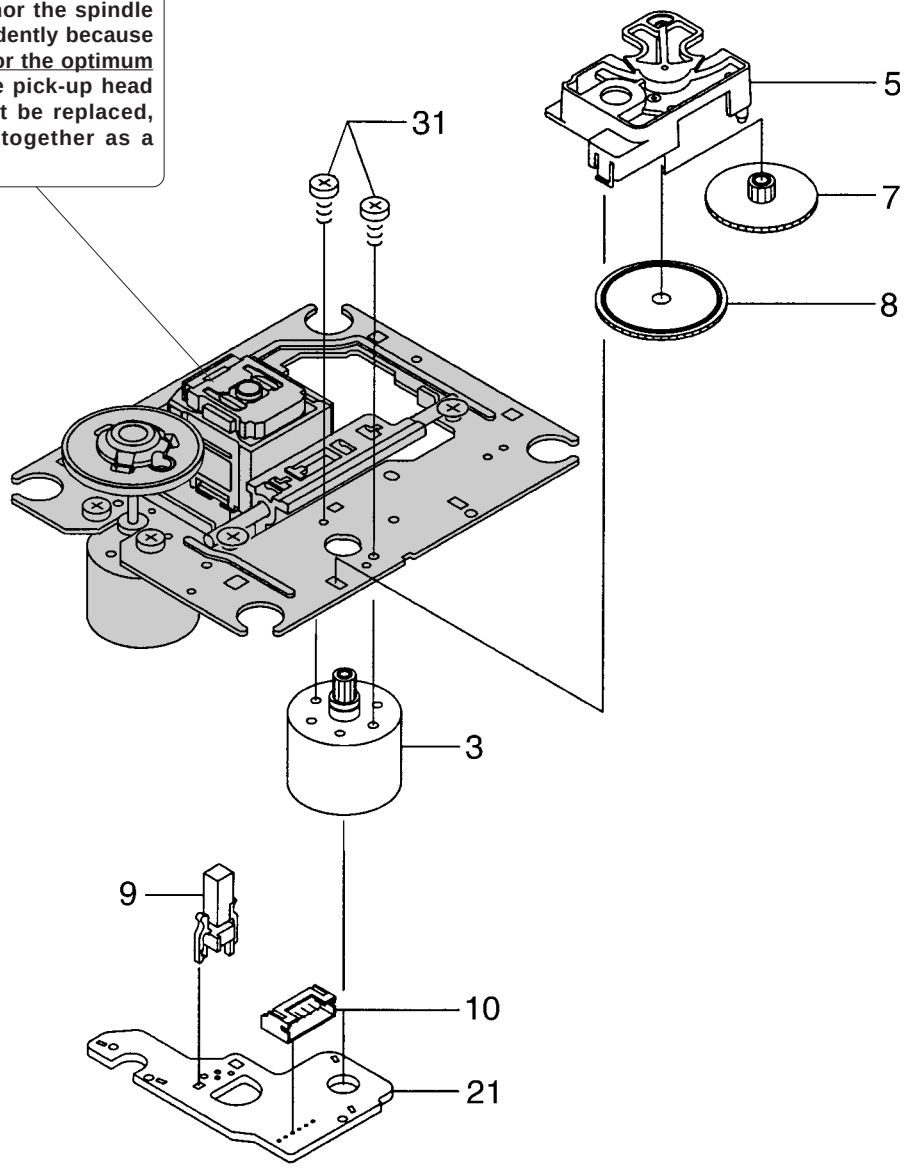
■ MECHANICAL PARTS (CM-230/CM-240 Unit)

	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, LO1		CM-230,CM-240	
	23	VS035300	GEAR, LO1		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

■ 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.

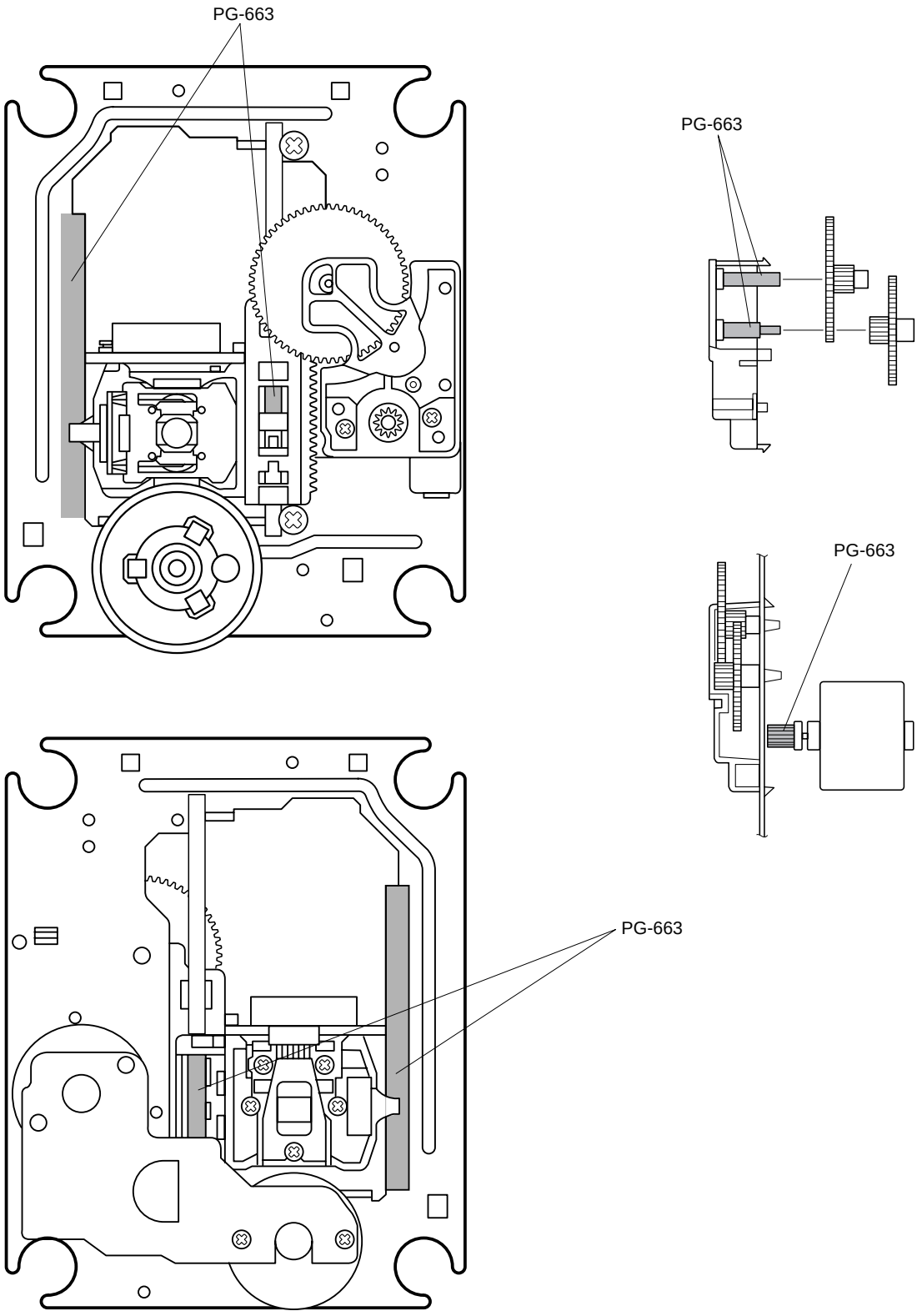


Ref. No.	PART NO.	Description		Remarks	Markets
	V3175200	PU MECHA. UNIT	DA11T3		
3	XX702580	SLED MOTOR ASS'Y	6.0V	1EA0M10A09700	
5	XX702590	COVER, GEAR		1EA2121A20000	
7	XX702610	GEAR, MIDDLE		1EA2511A21000	
8	XX702600	GEAR, DRIVE		1EA2511A21100	
9	XX702660	SWITCH, LEAFE	PWB MOTOR	1EA4S13A01600	
10	XX702620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

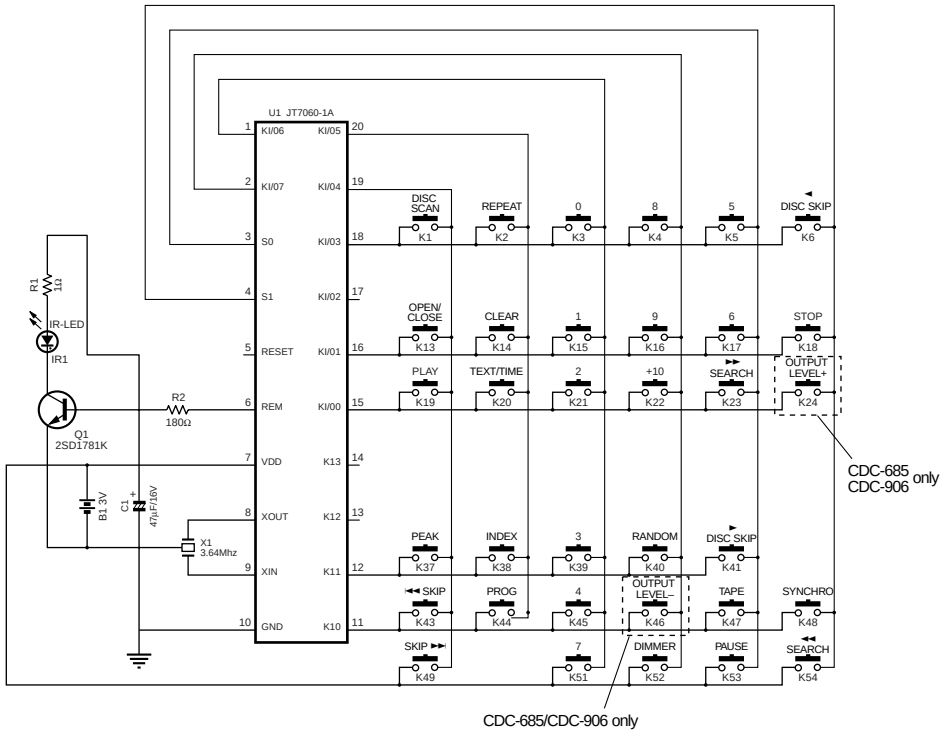
*New Parts

■ GREASE APPLICATION DIAGRAM (PU Mechanism)

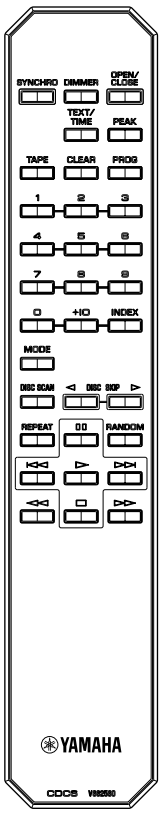
Apply the grease
Molykote PG-663 (P/No. AAX01170)



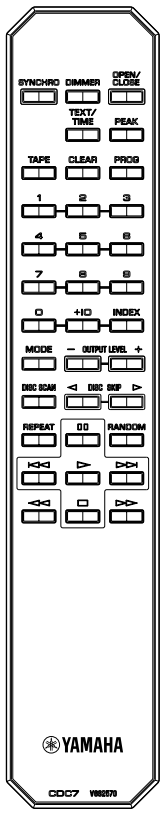
■ REMOTE CONTROL TRANSMITTER SCHEMATIC DIAGRAM



● **CDC-585/CDC-506**



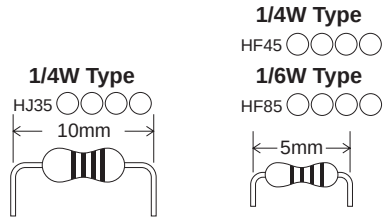
● **CDC-685/CDC-906**



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	CDC-685 only
K24	OUTPUT LEVEL+	79	1D	CDC-906 only
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	

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



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