

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.

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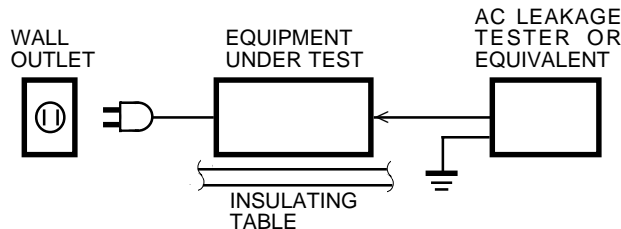
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 This Service Manual uses recycled paper.

■ TO SERVICE PERSONNEL

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



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

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

WARNING: CHEMICAL CONTENT NOTICE!

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

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

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

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

WARNING: Laser Safety

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

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

Laser Emitting conditions:

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

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

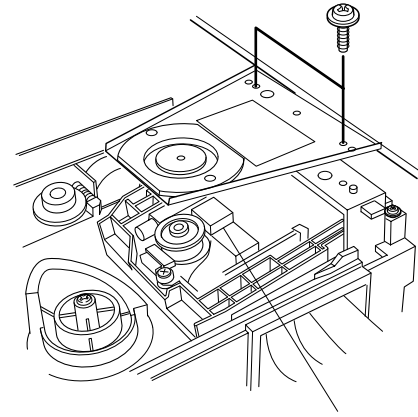
This set employs a laser. Therefore, be sure to carefully follow the instructions below when servicing.

1. Laser Diode Properties

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

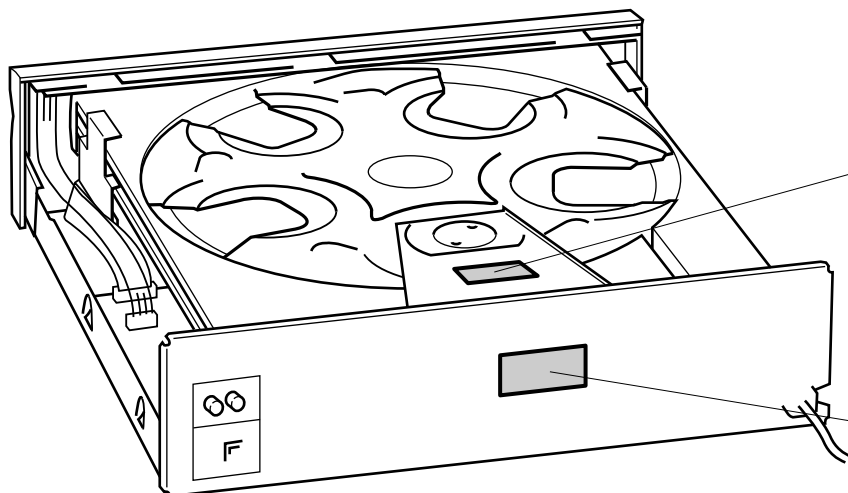
* This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.

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



Optical pick-up

| | |
|-----------------|---|
| VARO! | : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASER-SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN. |
| WARNING! | : OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN. |



B, G, R models

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

B, G, R models

| |
|---|
| <p style="text-align: center;">CLASS 1 LASER PRODUCT LASER KLASSE 1 PRODUKT LUOKAN 1 LASERLAITE KLASS 1 LASER APPARAT</p> |
|---|

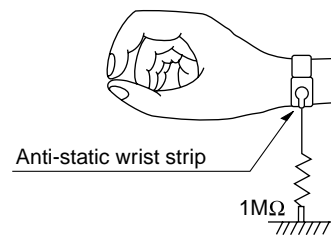
■ PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

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

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

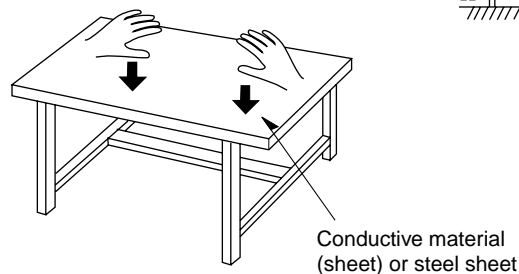
Grounding for electrostatic breakdown prevention

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



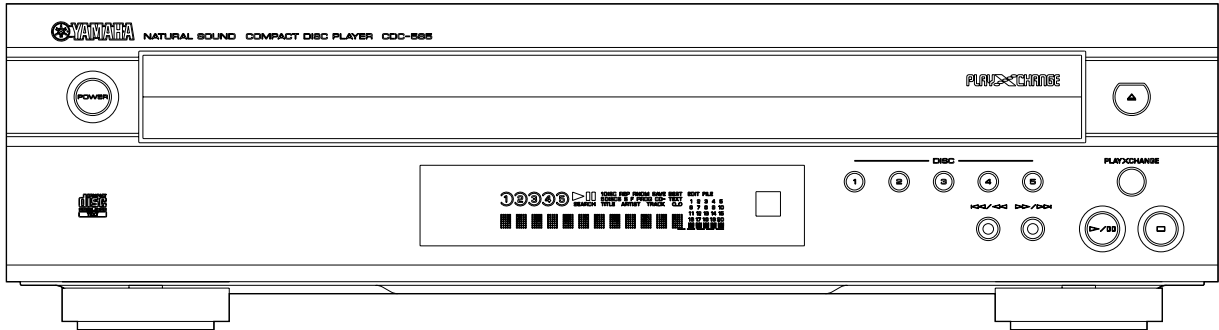
Caution:

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

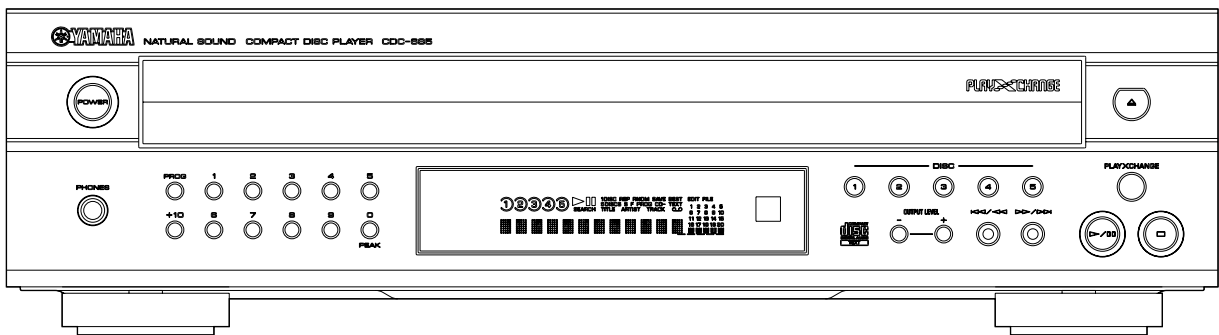


FRONT PANELS

● CDC-585/CDC-506

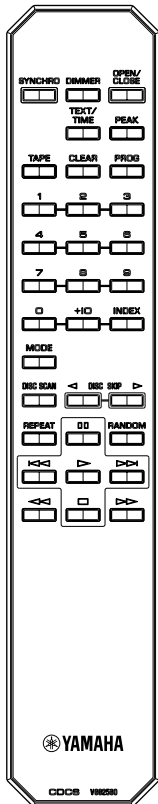


● CDC-685/CDC-906

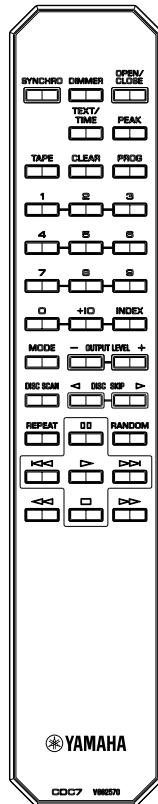


● REMOTE CONTROL TRANSMITTER

● CDC-585/CDC-506



● CDC-685/CDC-906



CAUTION FOR TRANSPORTING THIS UNIT

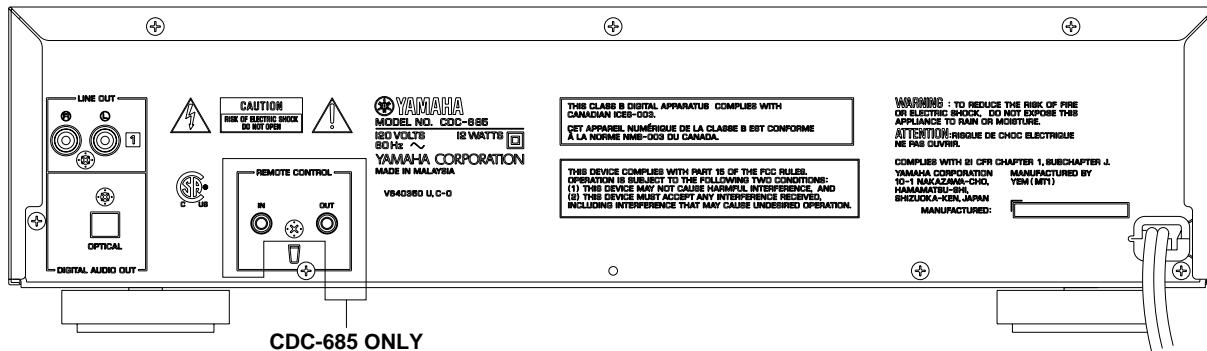
When transporting this unit, first remove all discs from the disc tray and close the tray by pressing the **OPEN/CLOSE** button, and then switch off the power after you confirm that the display has turned as follows.



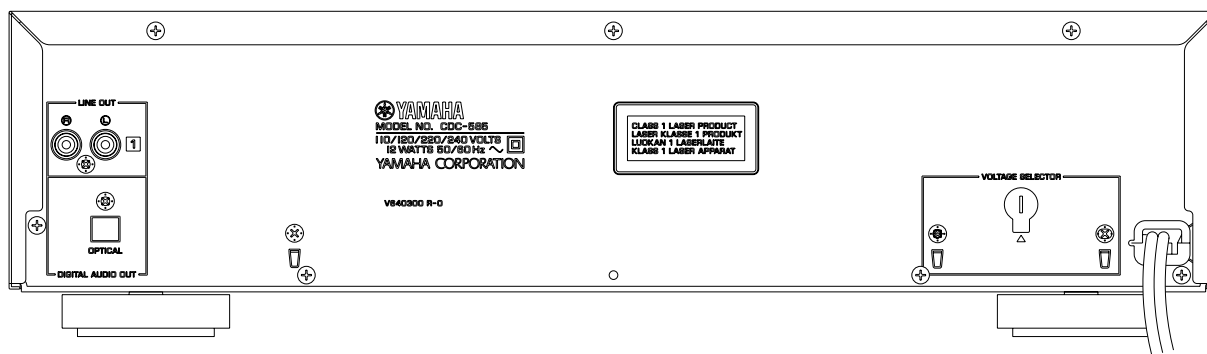
Never switch off the power if the display does not turn as above, otherwise the unit will become damaged during transport because the internal mechanism is not locked.

REAR PANELS

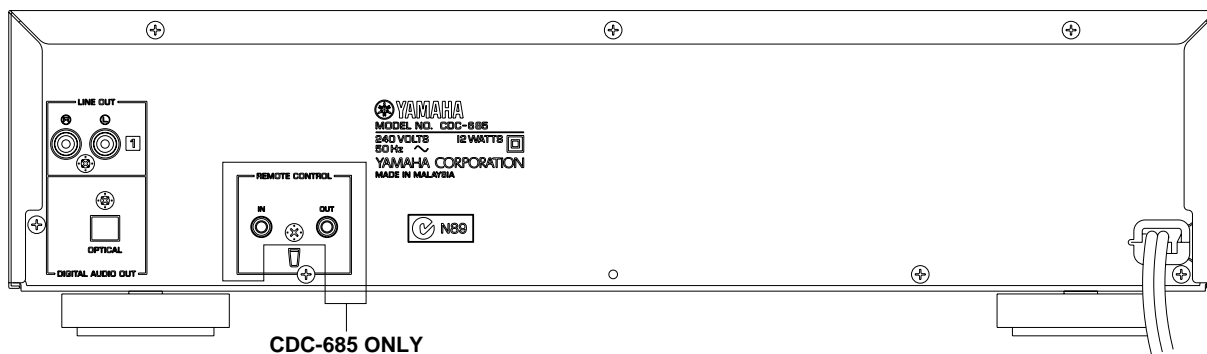
U, C models



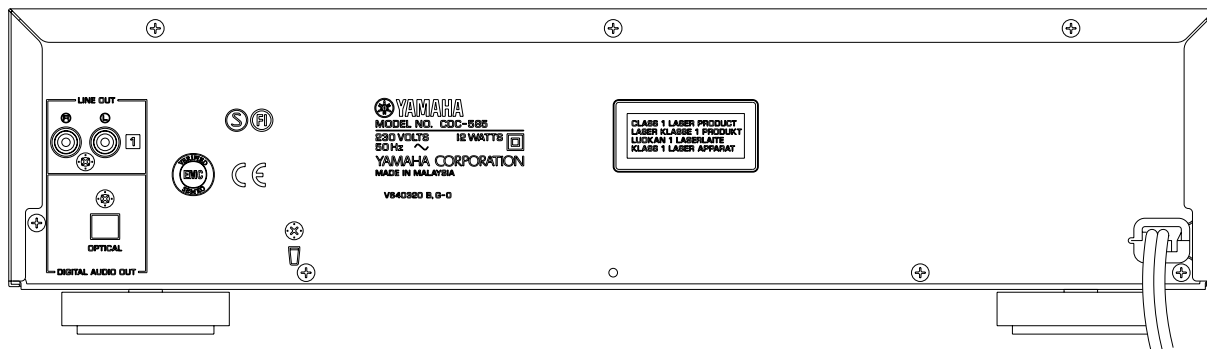
R model



A model



B, G model



■ SPECIFICATIONS

■ AUDIO SECTION

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

■ GENERAL

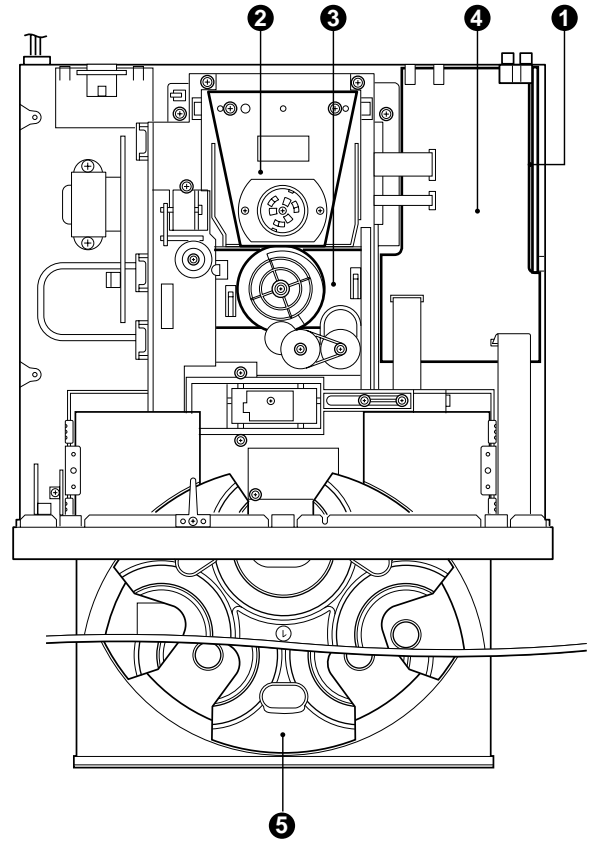
| | |
|-------------------------------|---|
| Power Supply | |
| U, C models | 120V AC 60Hz |
| B, G models | 230V AC 50Hz |
| A model | 240V AC 50Hz |
| R model | 110/120/220/240V AC 50/60Hz |
| Power Consumption | 12W |
| Dimensions (W x H x D) | 435 x 116 x 404 mm (17-1/8" x 4-9/16" x 15-7/8") |
|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

* Specifications subject to change without notice.

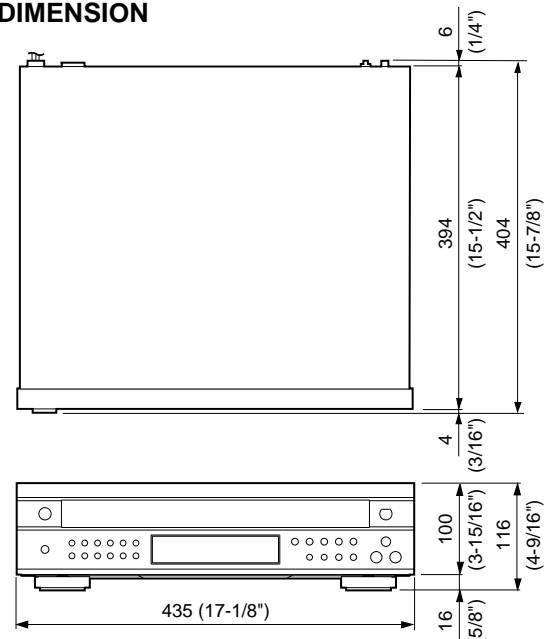
U USA model B British model
 C Canadian model G European model
 A Australian model R General model

■ INTERNAL VIEW

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



● DIMENSION



Unit : mm (inch)

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

1. Removal of Top Cover

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

2. Removal of Clamp Ass'y

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

3. Removal of Tray Ass'y

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

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

- Pull out the Tray Ass'y.

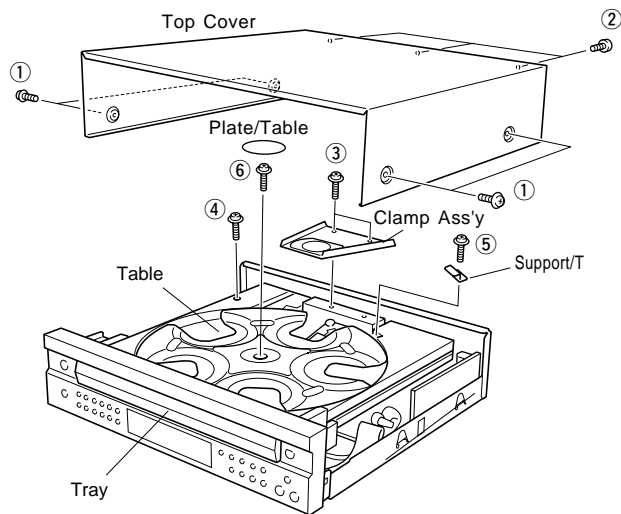


Fig. 1

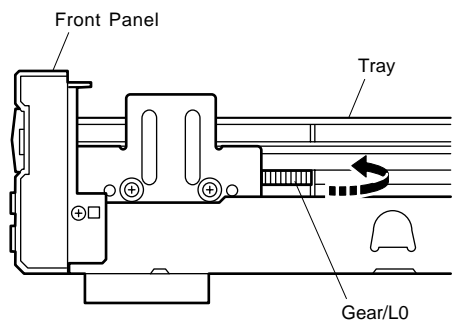


Fig. 2

4. Removal of Table

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

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

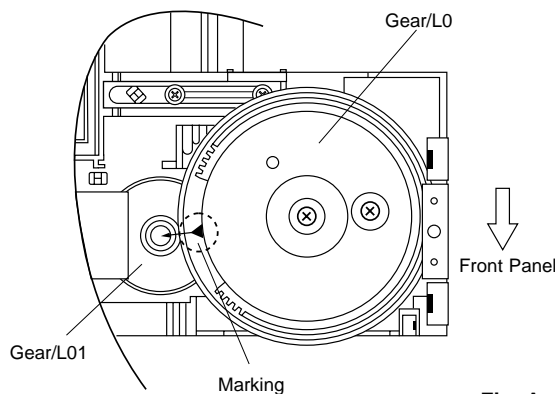


Fig. A

IMPORTANT : Installation of Table.

Install the table according to the following procedure.

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

*Check that the Table is locked after installation.

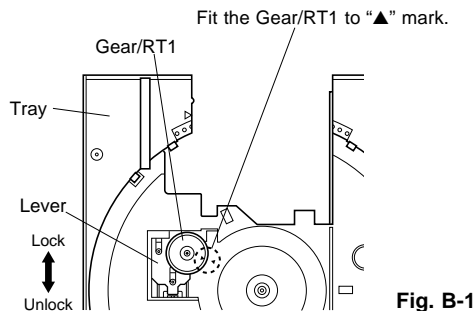


Fig. B-1

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

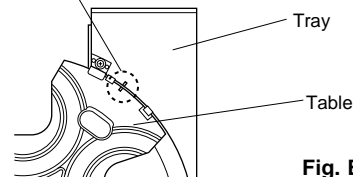


Fig. B-2

CDC-585/506

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

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

- 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.

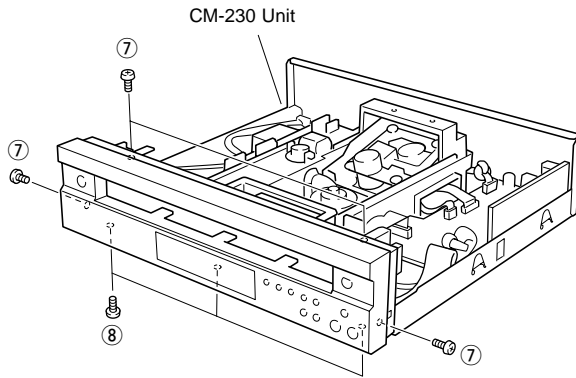


Fig. 3

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.

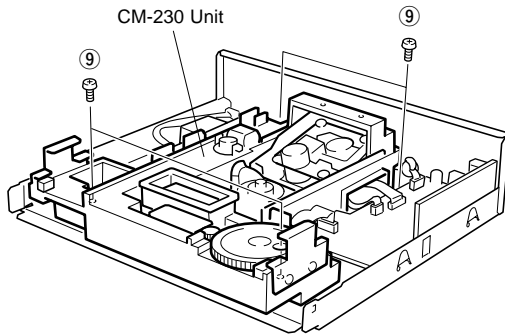
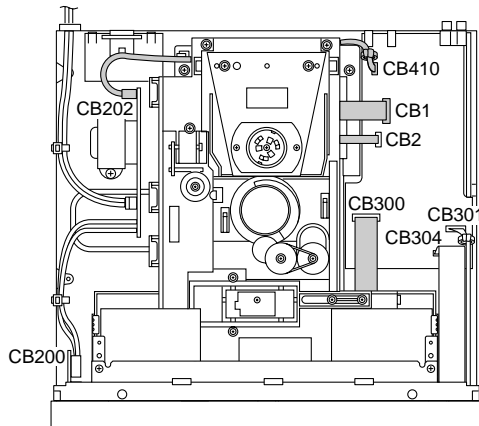


Fig. 4



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.

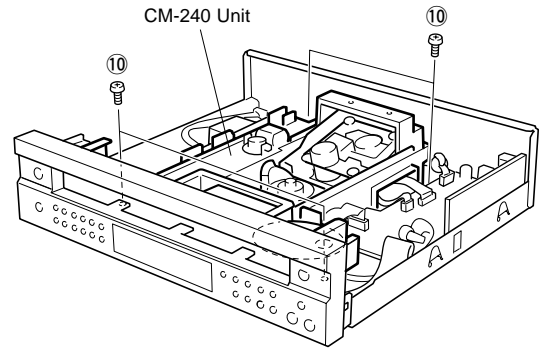
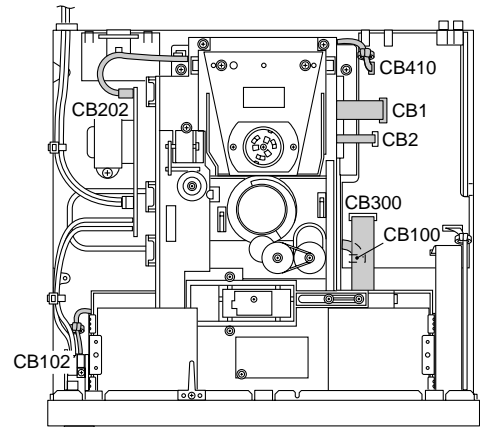


Fig. 5



6. Removal of PU Mechanism Unit

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

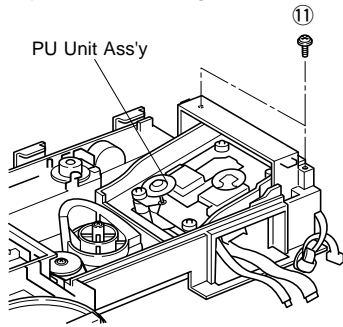


Fig. 6

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

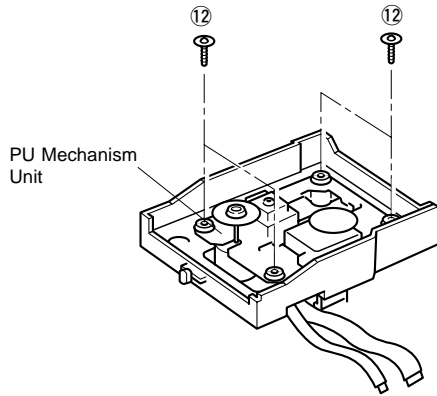


Fig. 7

● Operation Check Procedure

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

Turn the Plate clockwise by 30° while holding the Stabilizer, and the Plate will come off. Remove the Stabilizer from the Holder.
- ② Clamp the disc by using the stabilizer.
- ③ Set to the TEST mode and check for any faulty conditions.

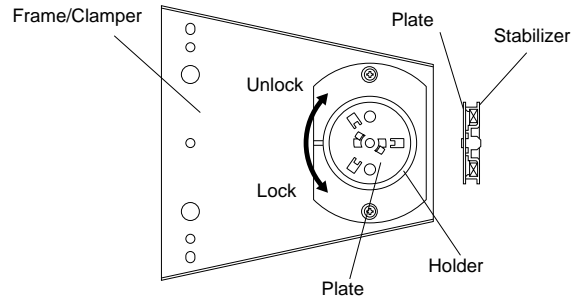


Fig. C

■ MAIN P.C.B. CHECK

Preparation before MAIN P.C.B. Check

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

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

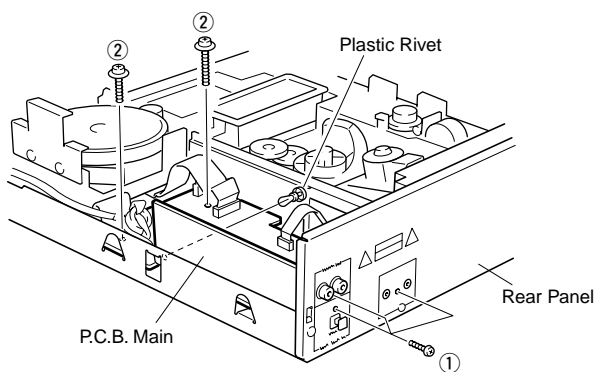


Fig. 1

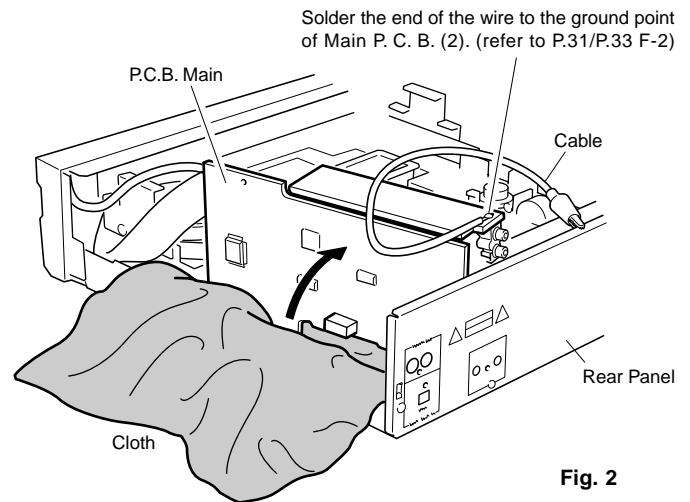


Fig. 2

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

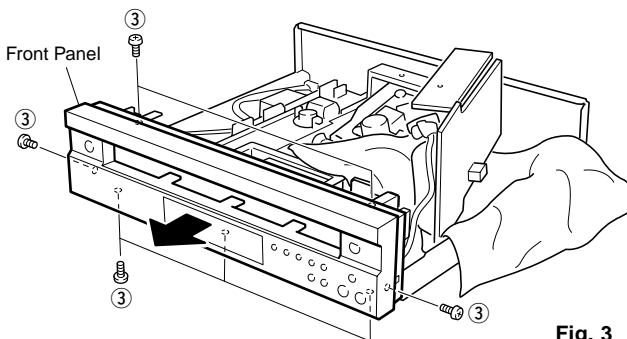


Fig. 3

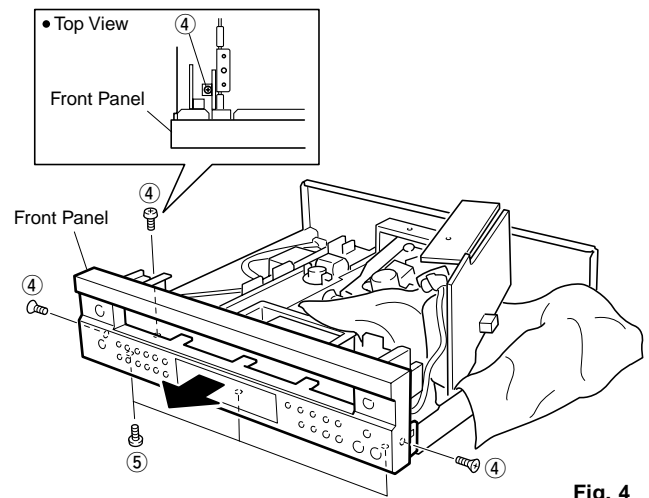
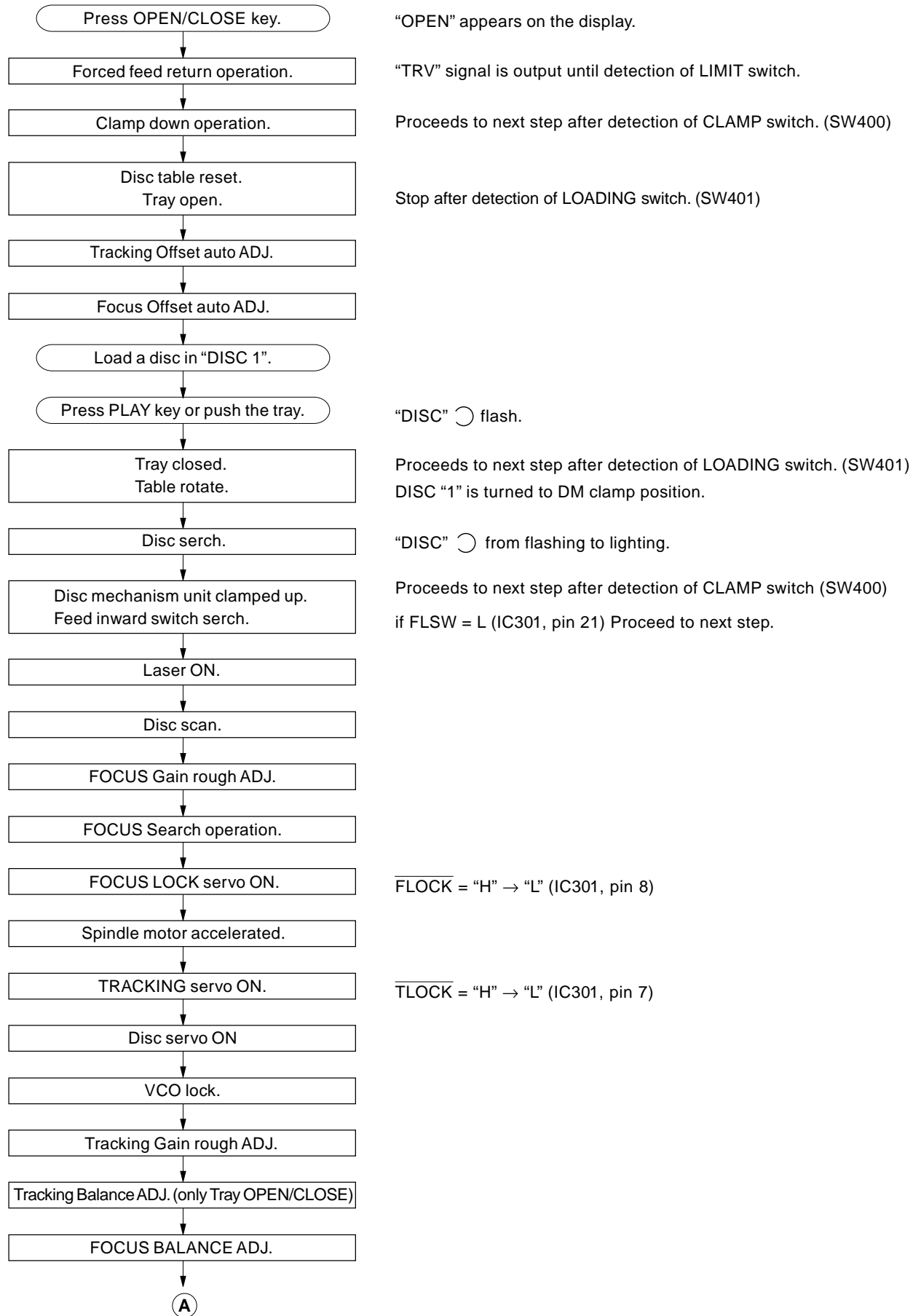
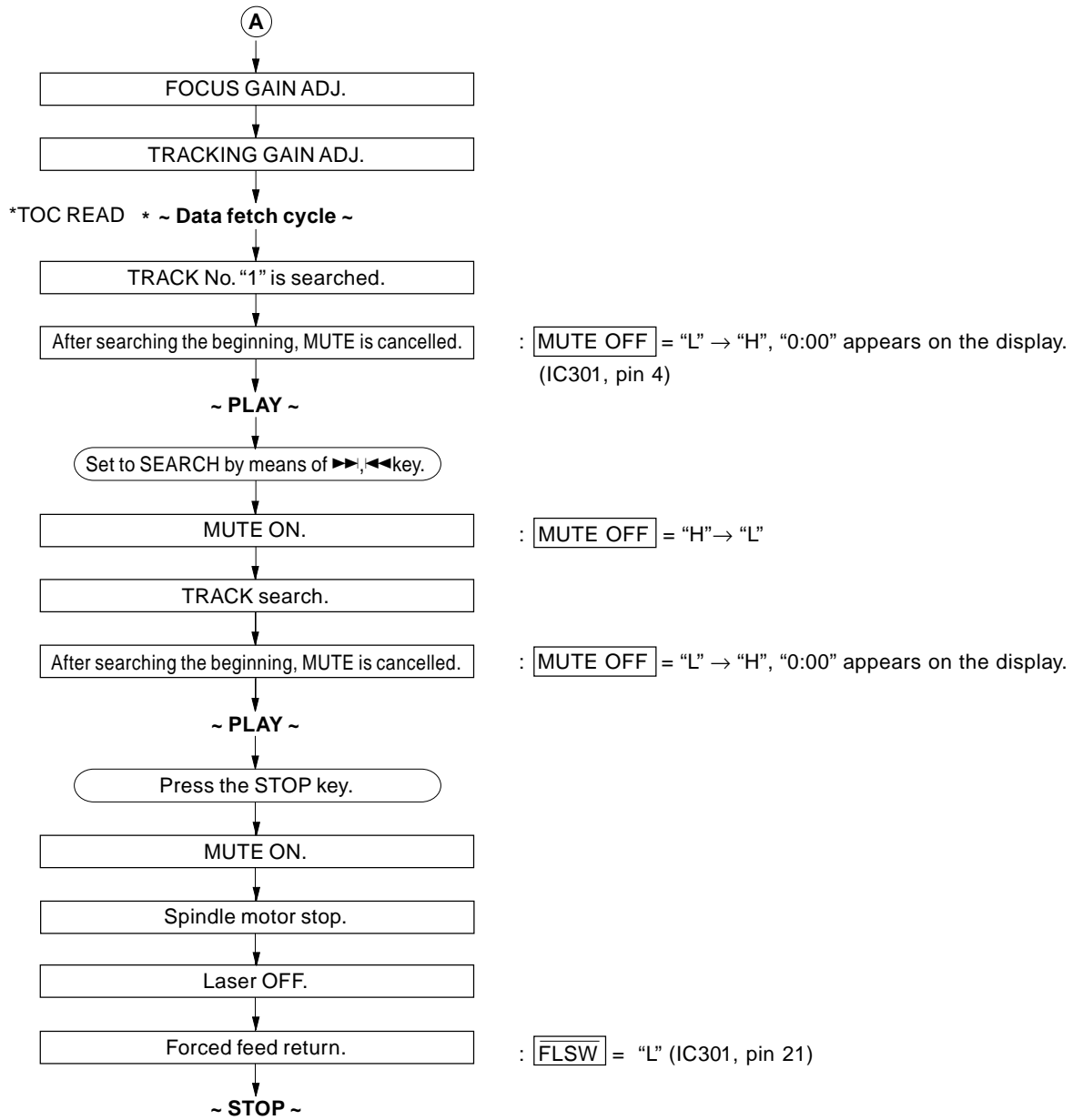


Fig. 4

STANDARD OPERATION CHART





■ TEST MODE

● Starting TEST mode

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

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

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

● Function List of Panel keys

Note: “traverse servo” means the same as “feed servo”

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

CDC-685/
CDC-906
ONLY

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

● **Function List of Remote Control Transmitter**

CUSTOM CODE = (79)x

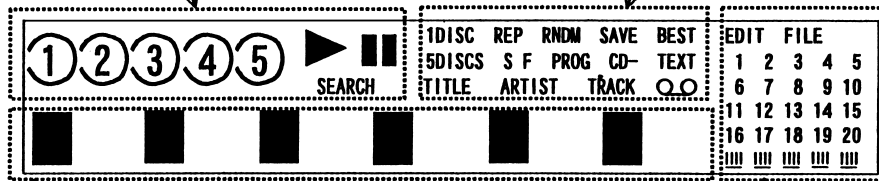
| CODE | KEY | FUNCTION | |
|------|--------------------|--|------------------------|
| 00 | MODE | Traverse stop | |
| 01 | OPEN/CLOSE | Tray open/close | |
| 02 | PLAY | PLAY (FOON, TRON, TVON (FEON), SPON) | |
| 04 | ◀◀SKIP | Backward traverse move. (If inner SW turns on, traverse is stopped.) (Coefficient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

(Note 2) Checks FL display.

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

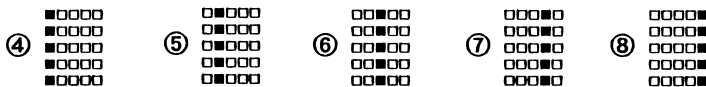
③:Lights up all indicators in this part.

②:Lights up all indicators in this part.



④-⑧ Each dot matrix changes as follows.

①:Lights up all indicators in this part.

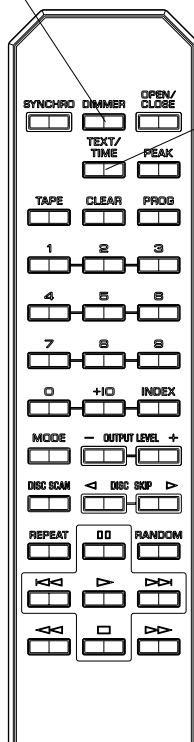


⑨ Dot matrix lights up like this.

⑩ All indicators light off.

DIMMER

TEXT/TIME



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

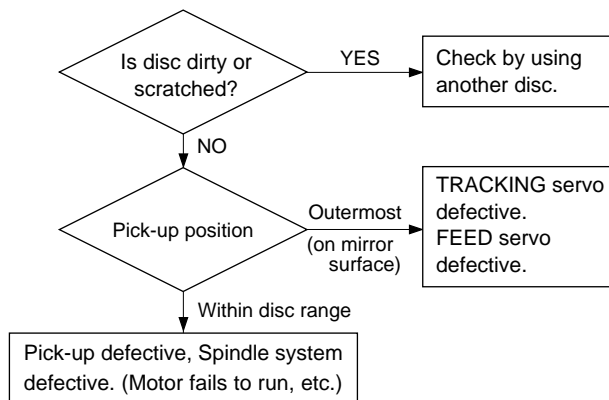
● Error Messages List

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

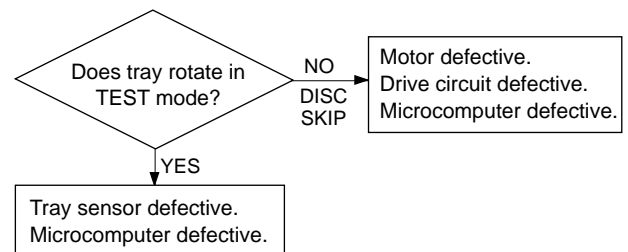
* **Meaning of each state (“X”) :**
 (X = 0)PLAY
 (X = 2)SCAN
 (X = 3)PAUSE
 (X = 4)PEAK SEARCH
 (X = 5)SEARCH
 (X = 6)DISC SCAN
 (X = 7)START
 (X = 8)STOP
 (X = 9)DISC SEARCH
 (X = -)EJECT
 (X = C) NO DISC

1) Error Code Troubleshooting

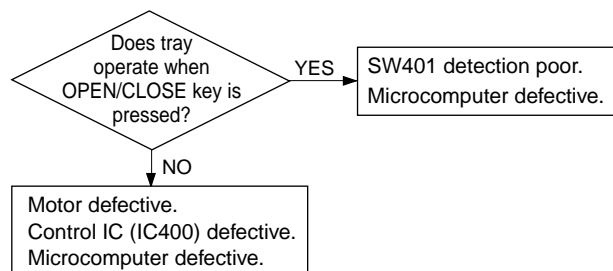
Error codes **X0**, **X1**, **73** Data cannot be read.



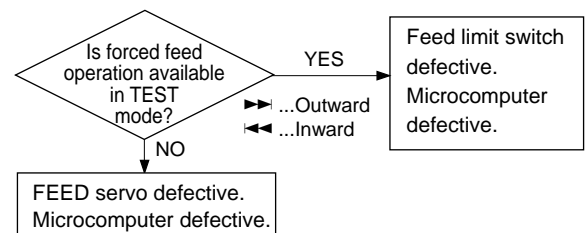
Error code **X6** Poor table rotation.



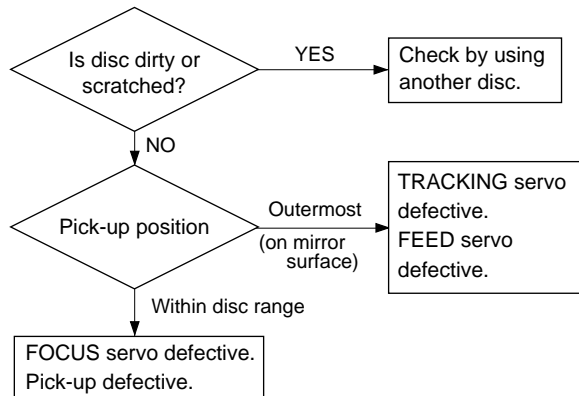
Error codes **X4**, **X5** Poor tray loading operation.



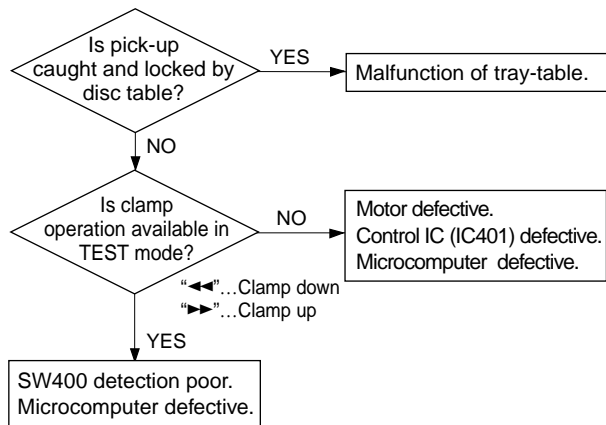
Error code **X7** FEED operation defective. (Limit switch fails)



Error code **X8** Focus drops.

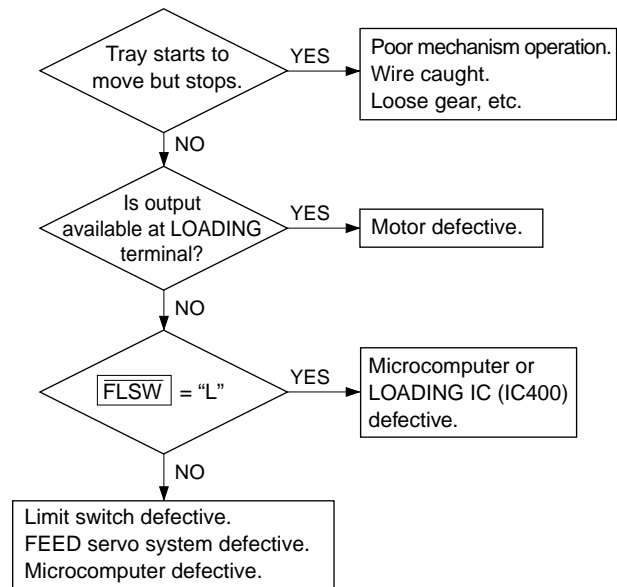


Error code **X9**, **XA** Poor clamp operation.

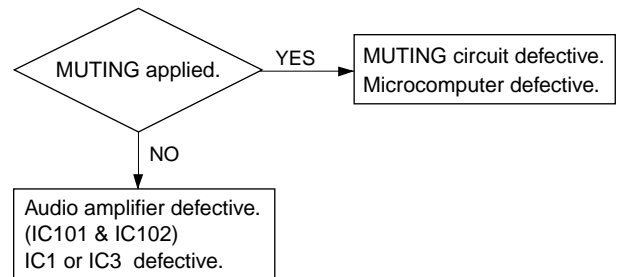


2) Troubleshooting from System Malfunctions.

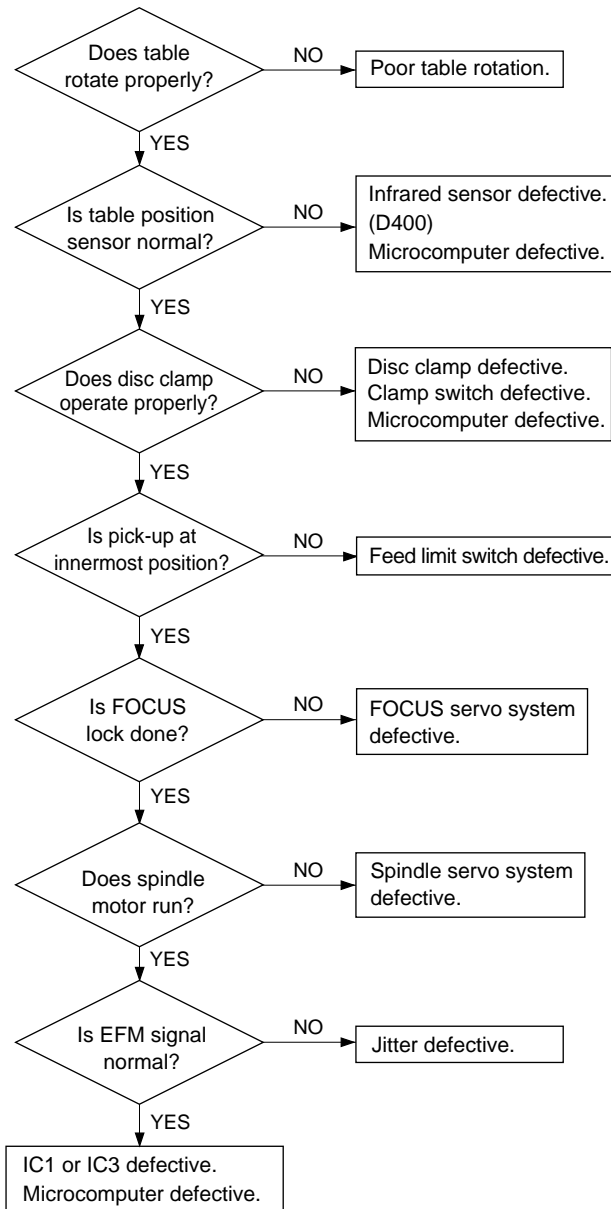
a) Tray fails to come out/go in.



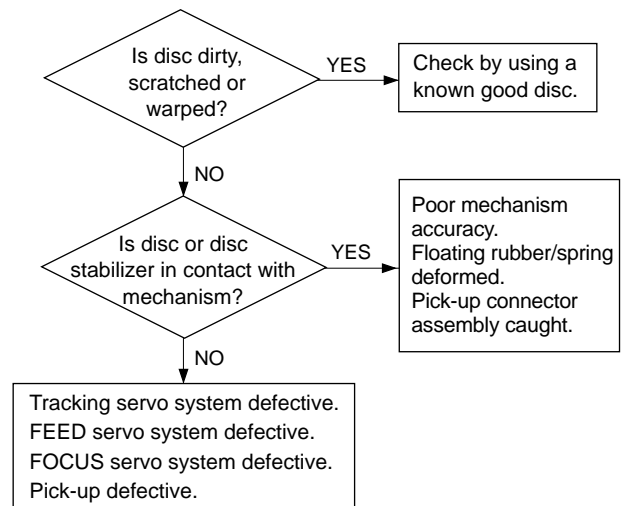
b) No sound generated, Sound cut during play. (but time display advanced properly)



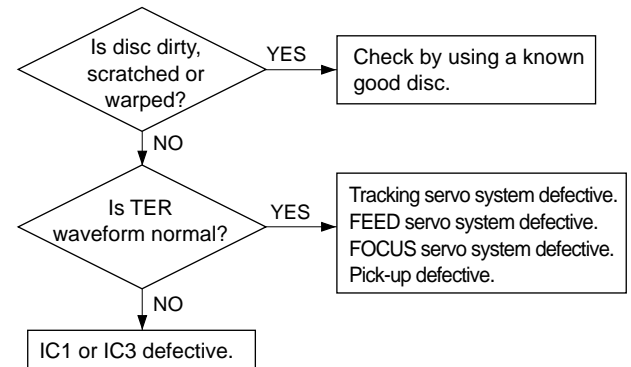
**c) Operates as if no disc loaded.
(although loaded)**



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



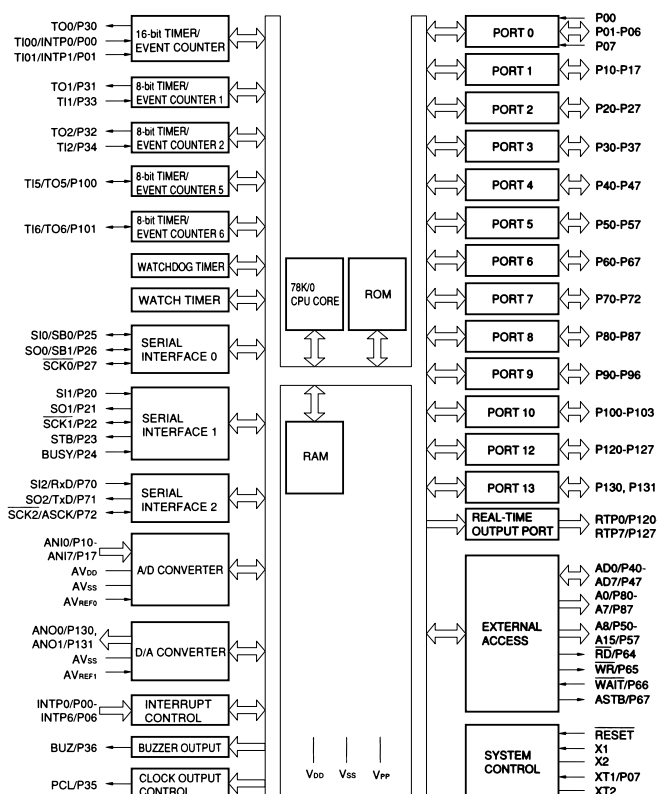
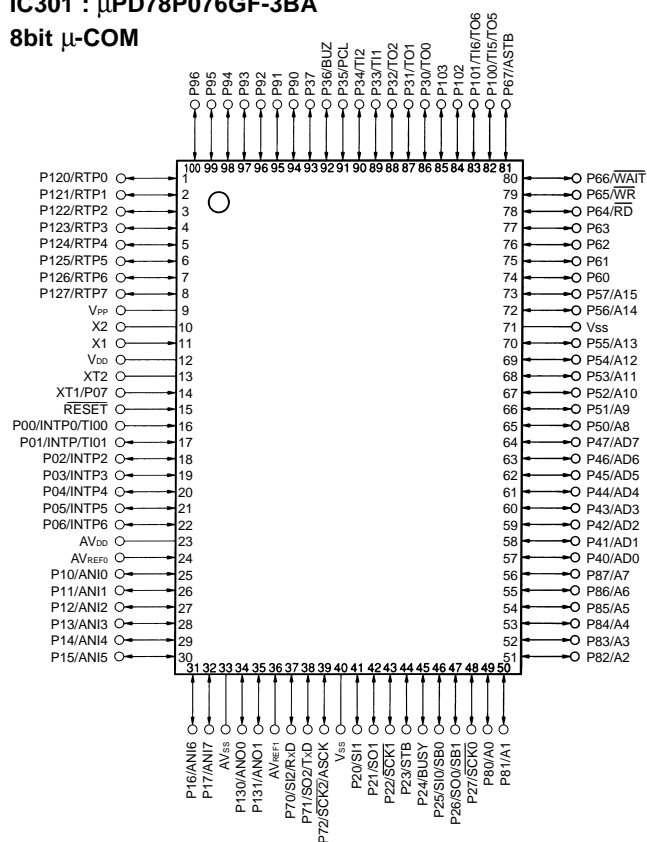
**e) No search provided.
(Sound skipped after search)**



IC DATA

IC301 : 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 | RES | O | Hardware reset output of MN35511. Reset at "L". |
| 6 | P125/RTP5 | DMUTE | O | Mute output to MN35511. Muted at "H". |
| 7 | P126/RTP6 | TLOCK | I | Tracking servo drawing signal input from MN35511. Drawn at "L". |
| 8 | P127/RTP7 | FLOCK | I | Focus servo drawing signal input from MN35511. Drawn at "L". |
| 9 | IC | IC | | GND |
| 10 | X2 | X2 | | Ceramic oscillator. (5MHz) |
| 11 | X1 | X1 | | |
| 12 | VDD | VDD | | |
| 13 | XT2 | XT2 | | N.C. |
| 14 | XT1/P07 | XT1 | | GND |
| 15 | RESET | RESET | I | Reset input. |
| 16 | P00/INTP0/T100 | REM | I | Input from remote control receiving unit. |
| 17 | P01/INTP1/T101 | BLKCK | I | Sub code, block clock input from MN35511. |
| 18 | P02/INTP2 | | | N.C. |
| 19 | P03/INTP3 | DOWNSW | I | PU unit down limit switch input. DOWN at "L". |
| 20 | P04/INTP4 | UPSW | I | PU unit up limit switch input. UP at "L". |
| 21 | P05/INTP5 | FLSW | I | Feed origin switch input. Feed origin at "L". |
| 22 | P06/INTP6 | CLDCK | I | MN35511 subcode frame clock |
| 23 | AVDD | AVDD | | +5V |
| 24 | AVREF0 | AVREF0 | | +5V |
| 25 | P10/ANI0 | PON | I | Power ON/OFF detect |
| 26 | P11/ANI1 | | | N.C. |
| 27 | P12/ANI2 | | | N.C. |

IC301 : μ PD78P076GF-3BA

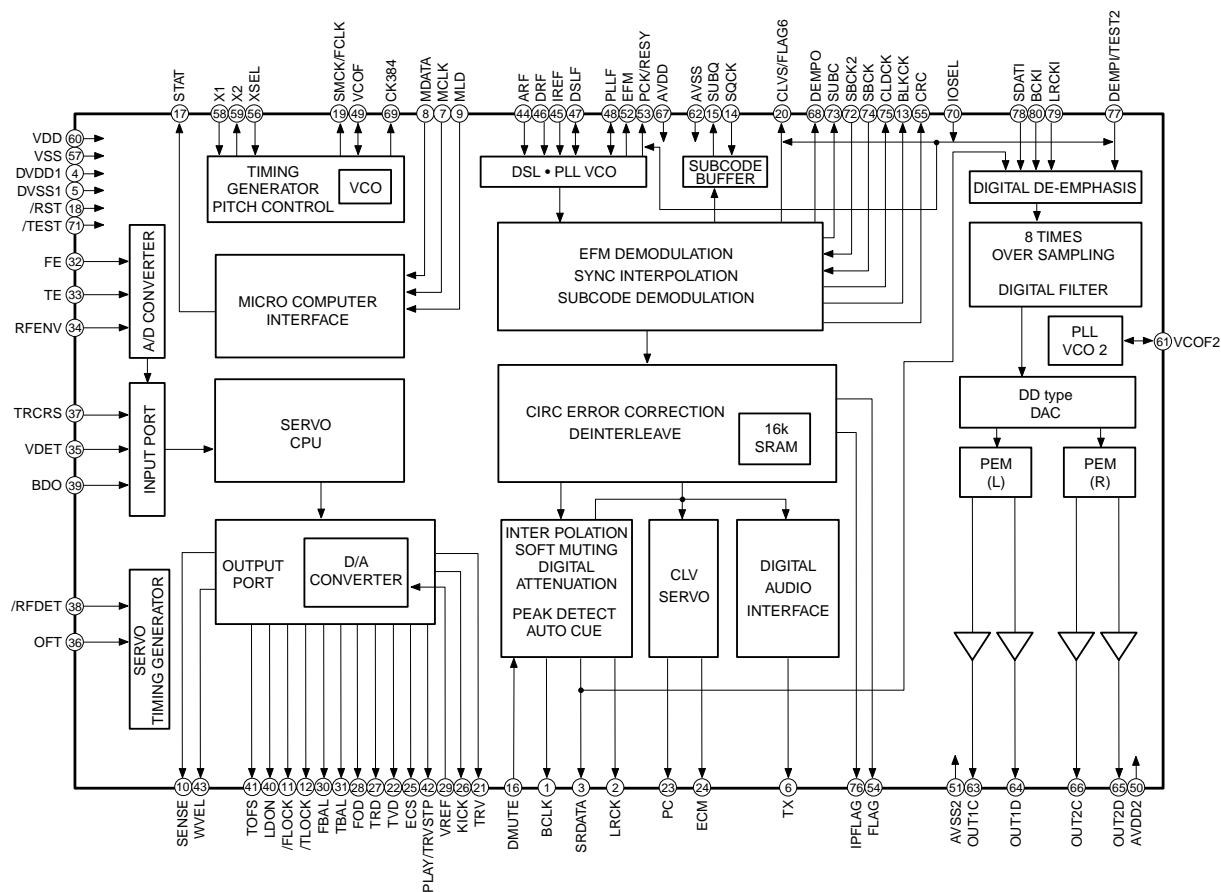
8bit μ -COM

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

IC301 : μ PD78P076GF-3BA
8bit μ -COM

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

IC3 : MN35511AL
Signal Processor & Controller



IC3 : MN35511AL**Signal Processor & Controller**

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

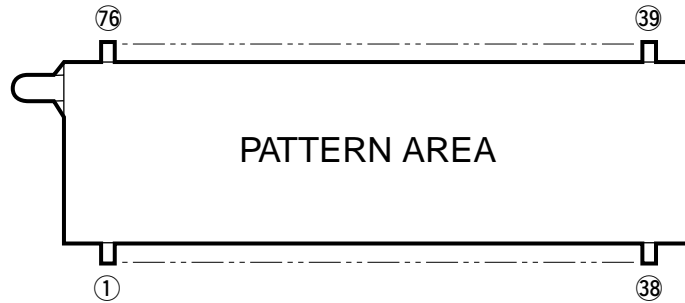
(Note 1) At the SMCK/FCLK pin, output does not stop while /RST=L.

IC3 : MN35511AL
Signal Processor & Controller

| Pin No. | Name | I/O | Function | |
|---------|-------------------|-----|--|-------|
| 47 | DSL F | I/O | Loop filter terminal for DSL | |
| 48 | PLL F | I/O | Loop filter terminal for PLL | |
| 49 | VCO F | I/O | Loop filter terminal for VCO | (+5) |
| 50 | AVDD2 | I | Power supply for analog circuit (for AD of DSL, PLL, DA output blocks) | (+5) |
| 51 | AVSS2 | I | GND for analog circuit (for AD of DSL, PLL, DA output blocks) | (GND) |
| 52 | E F M | O | E F M signal output | (NC) |
| 53 | P C K/ R E S Y | 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 | F L A G | O | Flag signal output | (NC) |
| 55 | C R C | O | Sub-code CRC check result output (H : OK, L : NG) | (NC) |
| 56 | X S E L | I | L : Normal mode 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. | (GND) |
| 57 | V S S | I | GND for oscillation circuit | |
| 58 | X 1 | I | Crystal oscillation circuit input terminal | |
| 59 | X 2 | O | Crystal oscillation circuit output terminal | |
| 60 | V D D | I | Power supply for oscillation circuit | (+5) |
| 61 | VCO F2 | O | PLL loop filter terminal for jitter adsorption | (GND) |
| 62 | AVSS1 | O | GND for audio DAC | |
| 63 | OUT1C | O | PEM output terminal 1C | (NC) |
| 64 | OUT1D | O | PEM output terminal 1D | (NC) |
| 65 | OUT2D | O | PEM output terminal 2D | (NC) |
| 66 | OUT2C | O | PEM output terminal 2C | (NC) |
| 67 | AVDD1 | I | Power supply terminal for audio DAC | |
| 68 | DEMP0 | O | Deemphasis detect signal output | |
| 69 | CK384 | O | 384fs clock output (At the CK384 pin, output does not stop while /RST=L.) Xtal system when command is defaulted. Signal processing system when command is switched | (NC) |
| 70 | IOSEL | I | Mode selecting terminal | (+5) |
| 71 | TEST | I | Test mode setting terminal (Normal : H) | (+5) |
| 72 | SBCK2 | I | Sub-code data read clock input | |
| 73 | SUBC | O | Sub-code serial output (SBCK effective) when command is defaulted. PACK data usable (SBCK2 effective) when command is switched | |
| 74 | SBCK | I | Clock input for sub-code serial output (with pull-up resistor) | (NC) |
| 75 | CLDCK | O | Sub-code frame clock signal output when command is defaulted (fCLDCK=7.35kHz) PACK synchronous signal when command is switched | |
| 76 | IPFLAG | O | Interpolation flag signal output (H : INTERPOLATION) | (NC) |
| 77 | DEMPI /TEST2 | I | When IOSEL=H, L : NORMAL H : TEST2 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 | (GND) |
| 78 | SDATI | I | SRDATA input (effective only when IOSEL=L) | (NC) |
| 79 | LRCKI | I | LRCK input (effective only when IOSEL=L) H : Lch data, L : Rch data | (NC) |
| 80 | BCKI | I | BCK input (effective only when IOSEL=L) | (NC) |

■ DISPLAY DATA (V3008400)

● V300 : 15-ST-20G

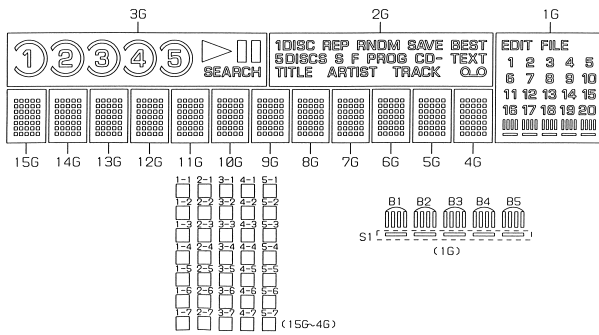


• PIN CONNECTION

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

- 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

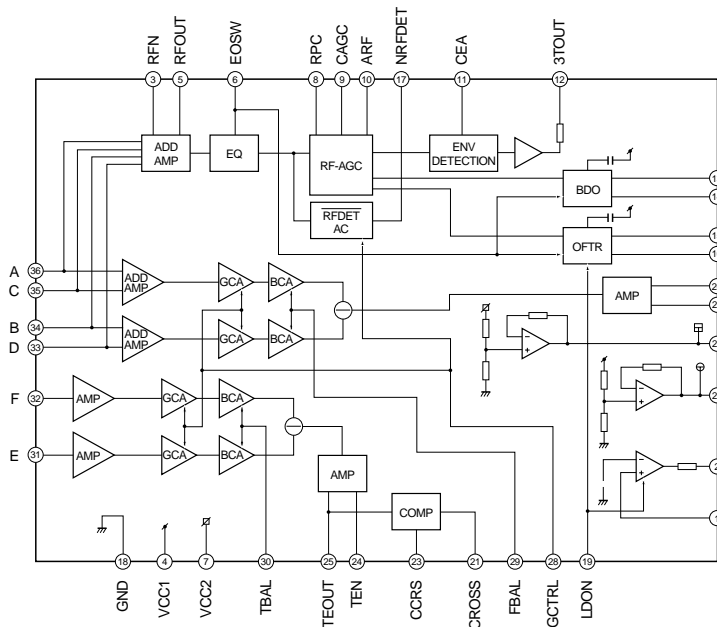


• ANODE CONNECTION

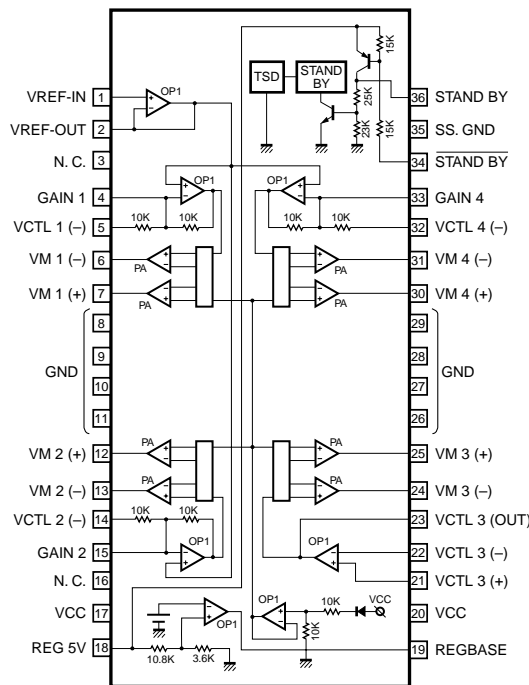
| | 15G-4G | 3G | 2G | 1G | | 15G-4G | 3G | 2G | 1G |
|-----|--------|--------|--------|----|-----|--------|----|----|------|
| P1 | 1-1 | 1 | TITLE | 1 | P19 | 4-4 | - | - | 19 |
| P2 | 2-1 | (1) ○ | ARTIST | 2 | P20 | 5-4 | - | - | 20 |
| P3 | 3-1 | 2 | TRACK | 3 | P21 | 1-5 | - | - | EDIT |
| P4 | 4-1 | (2) ○ | 00 | 4 | P22 | 2-5 | - | - | FILE |
| P5 | 5-1 | 3 | SDISCS | 5 | P23 | 3-5 | - | - | B1 |
| P6 | 1-2 | (3) ○ | S | 6 | P24 | 4-5 | - | - | B2 |
| P7 | 2-2 | 4 | F | 7 | P25 | 5-5 | - | - | B3 |
| P8 | 3-2 | (4) ○ | PROG | 8 | P26 | 1-6 | - | - | B4 |
| P9 | 4-2 | 5 | CD- | 9 | P27 | 2-6 | - | - | B5 |
| P10 | 5-2 | (5) ○ | TEXT | 10 | P28 | 3-6 | - | - | S1 |
| P11 | 1-3 | SEARCH | 1DISC | 11 | P29 | 4-6 | - | - | - |
| P12 | 2-3 | ▶ | REP | 12 | P30 | 5-6 | - | - | - |
| P13 | 3-3 | | RNDM | 13 | P31 | 1-7 | - | - | - |
| P14 | 4-3 | - | SAVE | 14 | P32 | 2-7 | - | - | - |
| P15 | 5-3 | - | BEST | 15 | P33 | 3-7 | - | - | - |
| P16 | 1-4 | - | - | 16 | P34 | 4-7 | - | - | - |
| P17 | 2-4 | - | - | 17 | P35 | 5-7 | - | - | - |
| P18 | 3-4 | - | - | 18 | | | | | |

IC BLOCKS

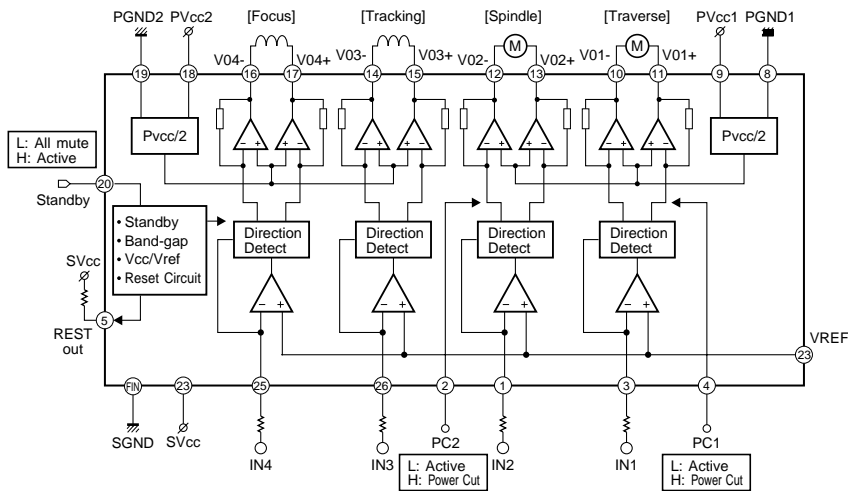
IC1 : AN8882SB
Digital Servo Head Amp



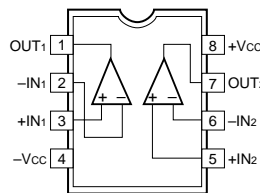
IC2 : AN4801SB
4-Channel BTL Driver



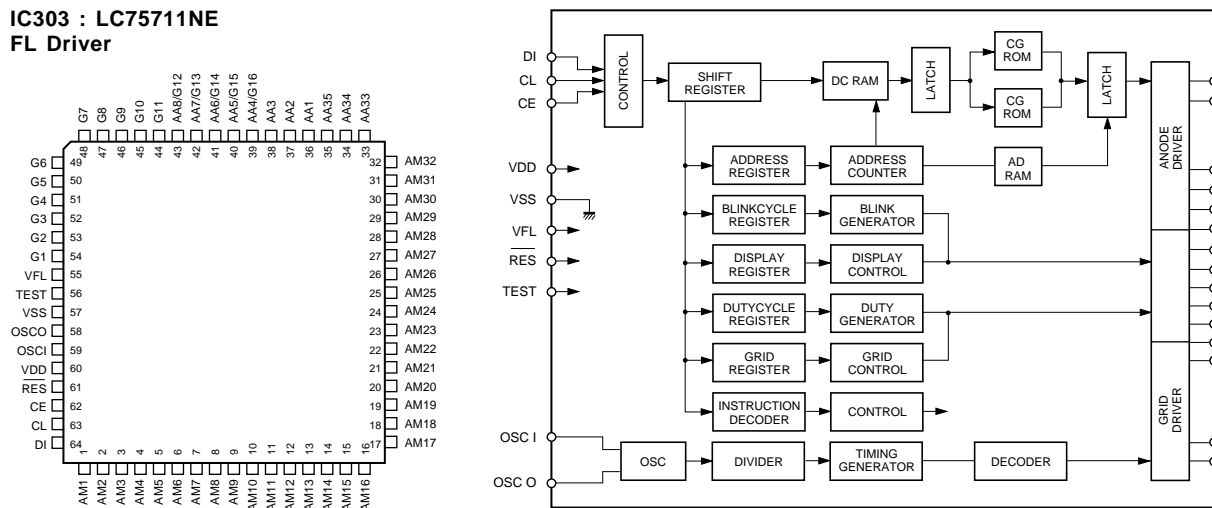
IC2 : AN4801SB
CD Driver



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

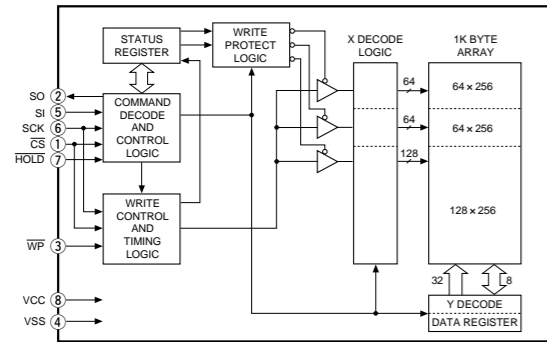


IC303 : LC75711NE
FL Driver

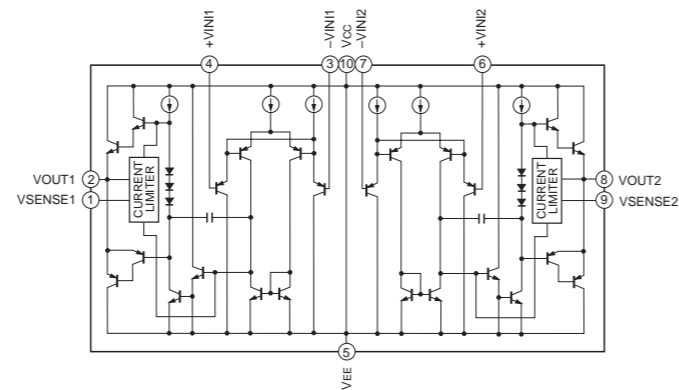


PIN CONNECTION DIAGRAM

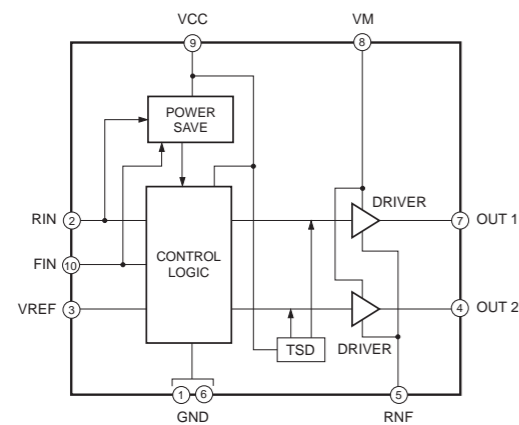
IC302 : S-24C01ADP
Electrically Erasable PROM



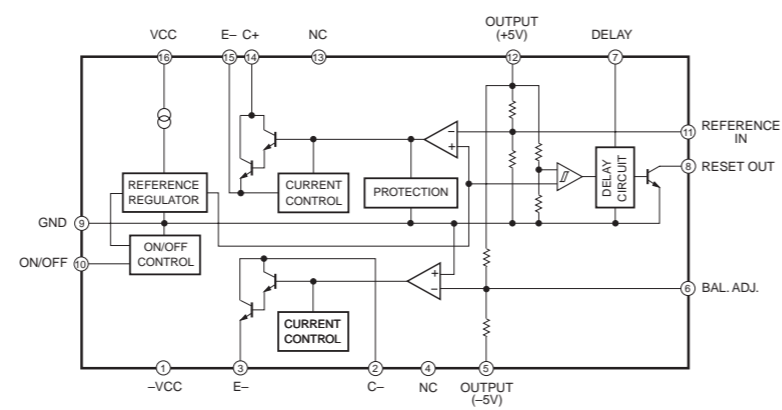
IC401 : LA6510
Dual Power Operational Amp



IC400 : BA6286
Motor Driver

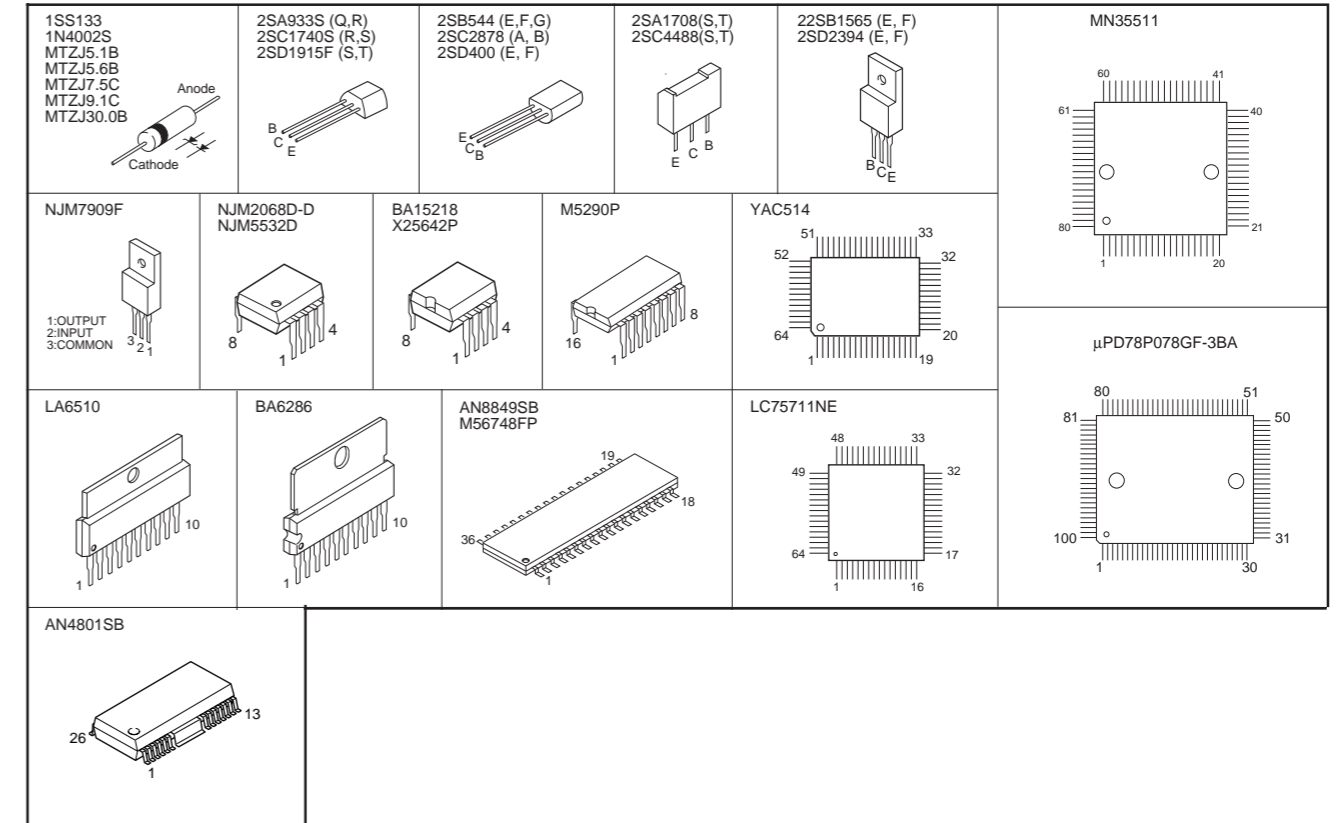


IC200 : M5290P
Constant-Voltage Tracking Supply with Reset

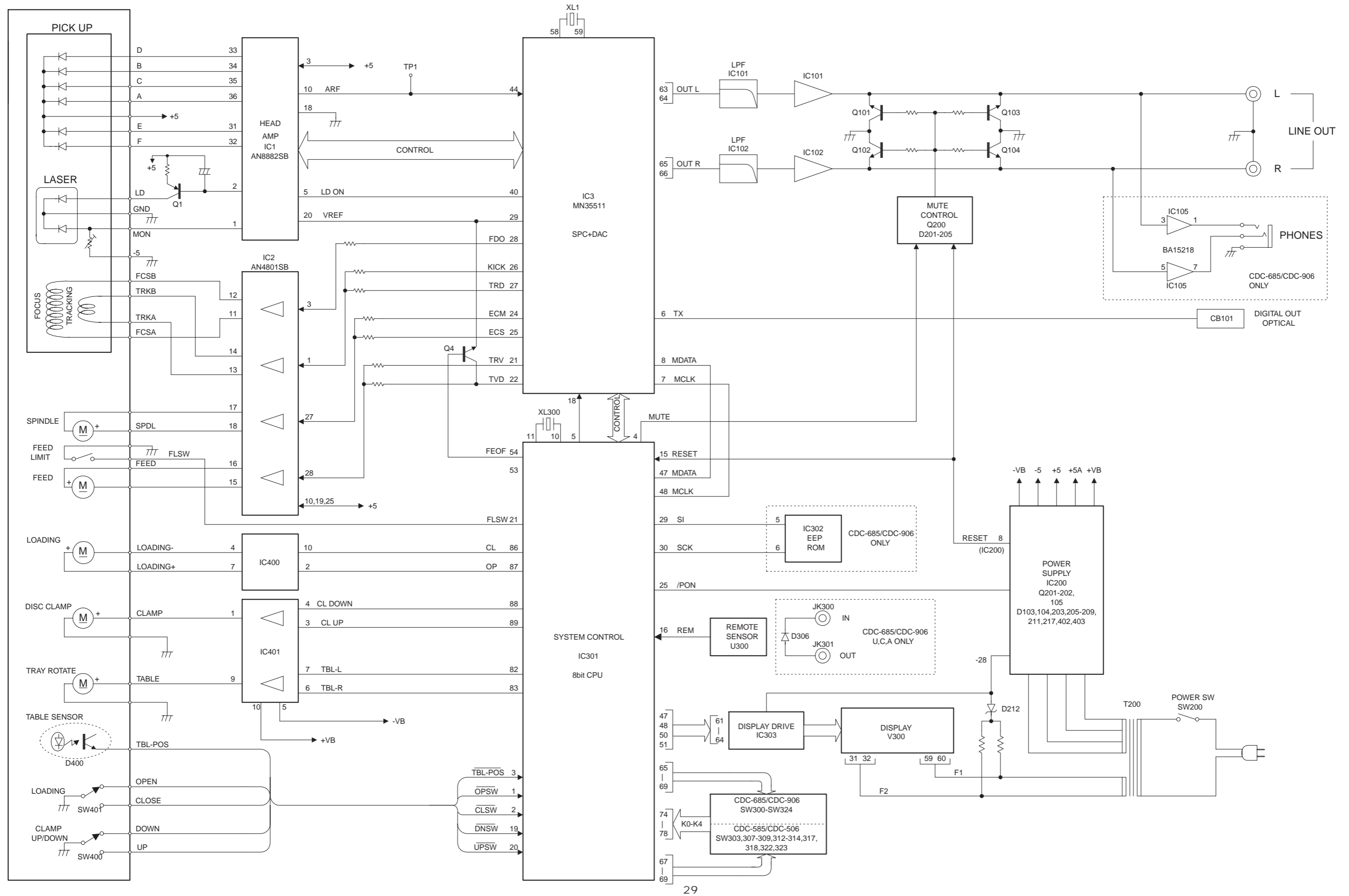


Other ICs

- IC301 : μ PD78P078GF-3BA → See page 19
- IC3 : MN35511 → See page 21



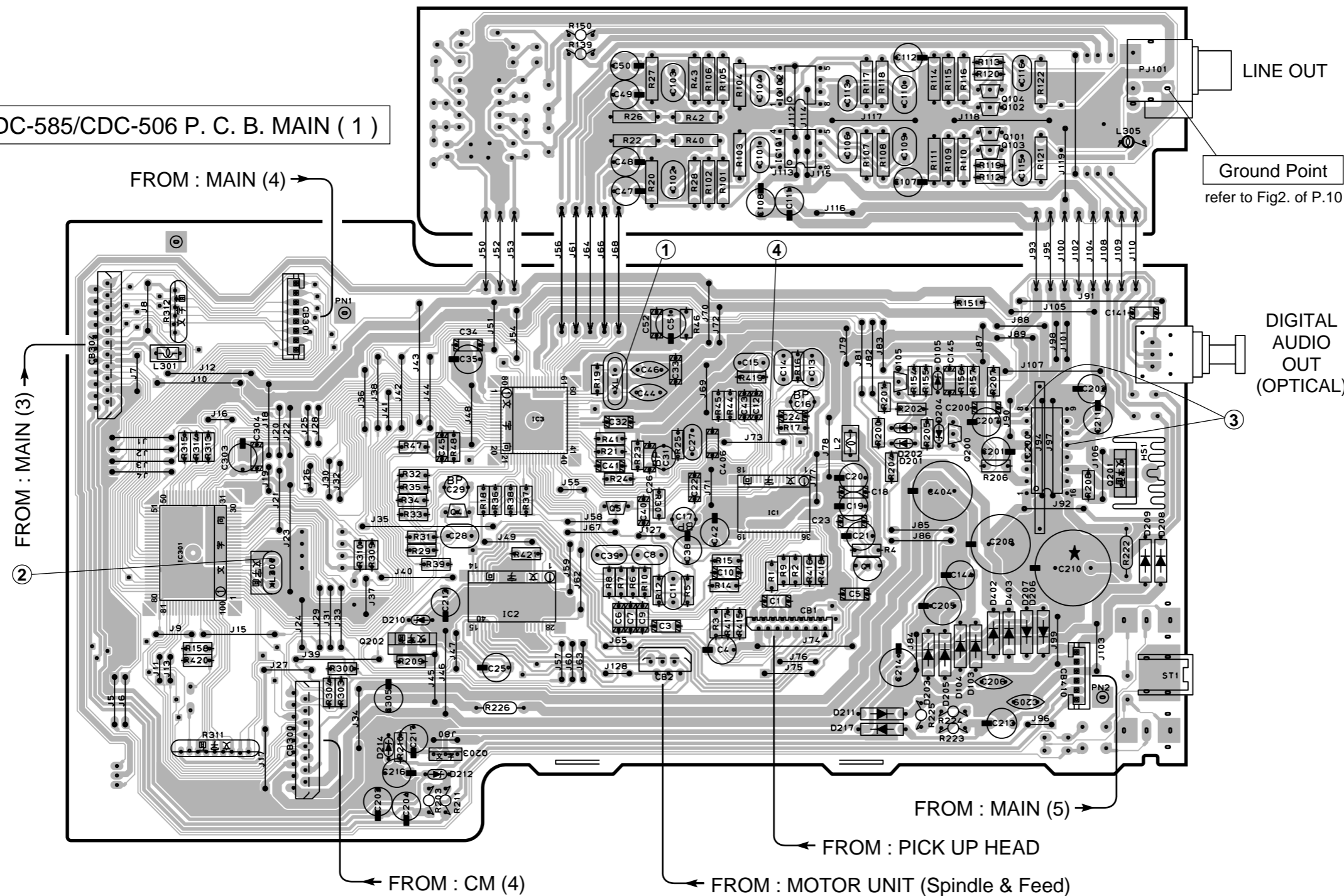
BLOCK DIAGRAM



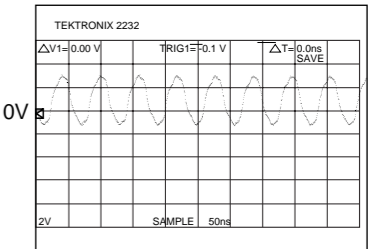
PRINTED CIRCUIT BOARD (Foil side)

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

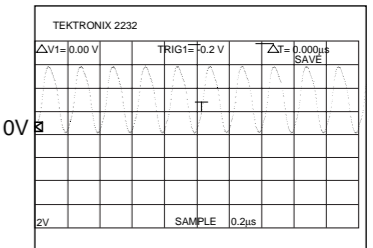
CDC-585/CDC-506 P. C. B. MAIN (1)



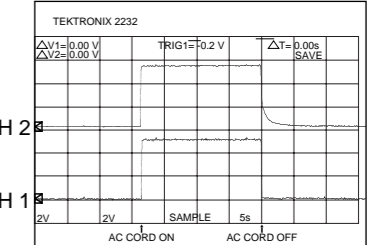
Point ① (Pin 59 of IC3)
 V : 2V/div H : 50nsec/div
 DC range 1 : 1 probe



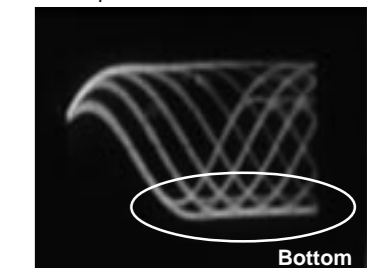
Point ② (Pin 10 of IC301)
 V : 2V/div H : 0.2μsec/div
 DC range 1 : 1 probe



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

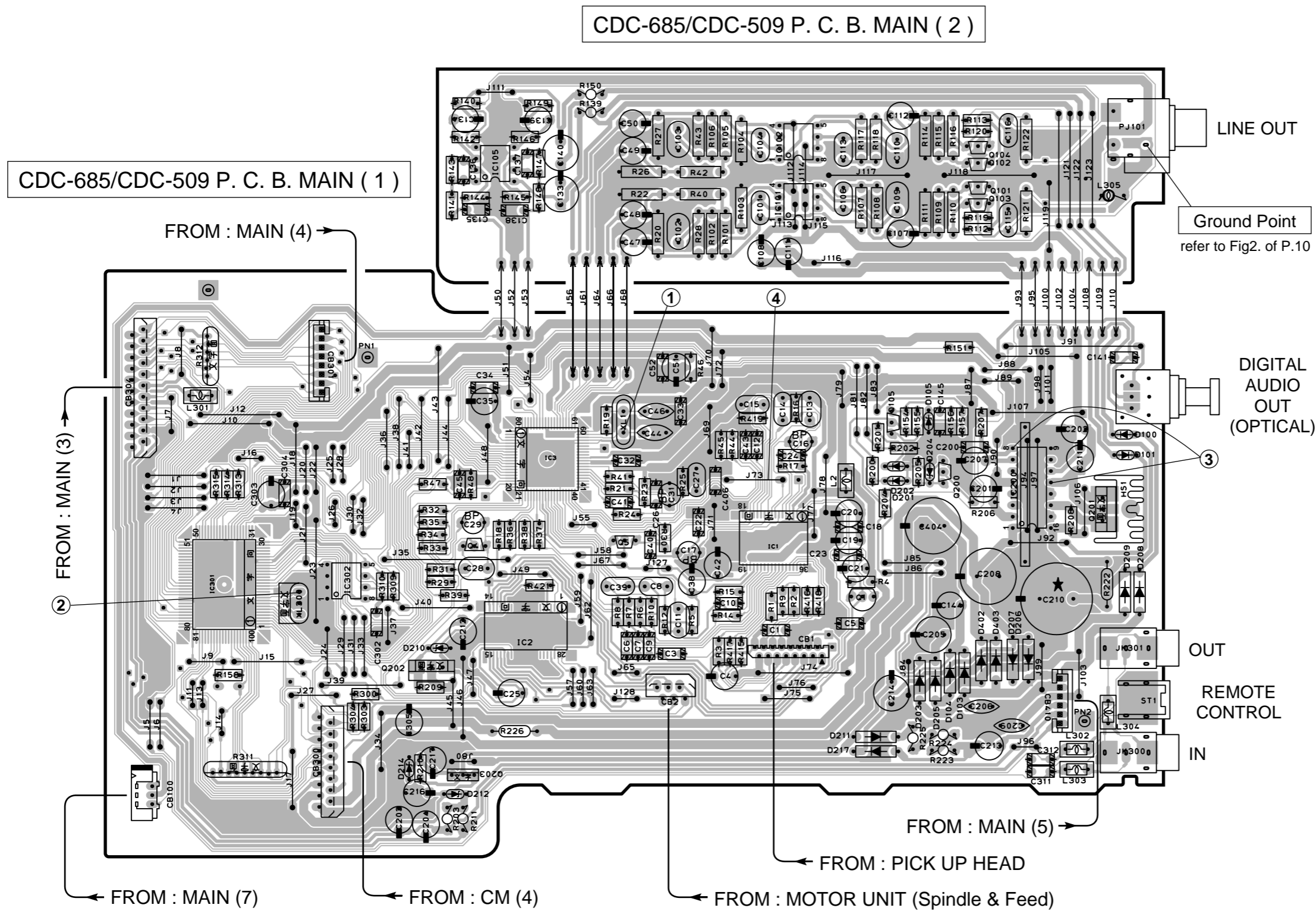


Point ④
Test disc
 SONY YEDS-18 (P/No. TX911730),
 A-BEX TCD-782 (P/No. TX913350)
 or Philips 5 : x 1

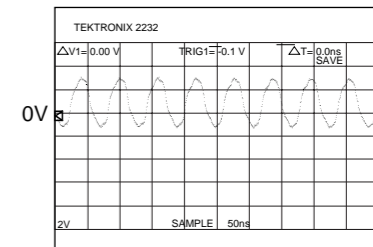


V : 0.2V/div H : 0.5μsec/div
 AC range 1 : 1 probe

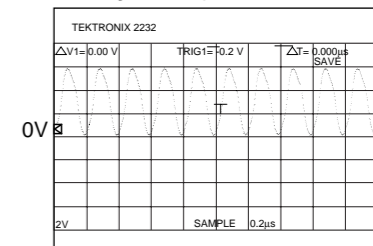
PRINTED CIRCUIT BOARD (Foil side)



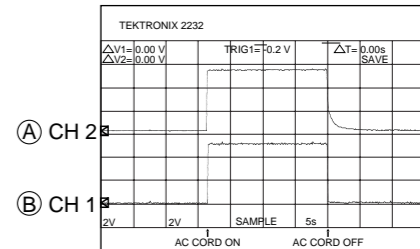
Point ① (Pin 59 of IC3)
V : 2V/div H : 50nsec/div
DC range 1 : 1 probe



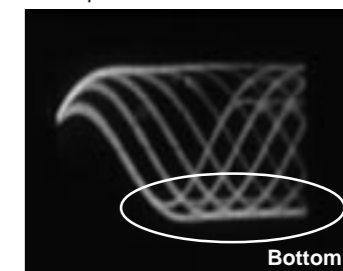
Point ② (Pin 10 of IC301)
V : 2V/div H : 0.2μsec/div
DC range 1 : 1 probe



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



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

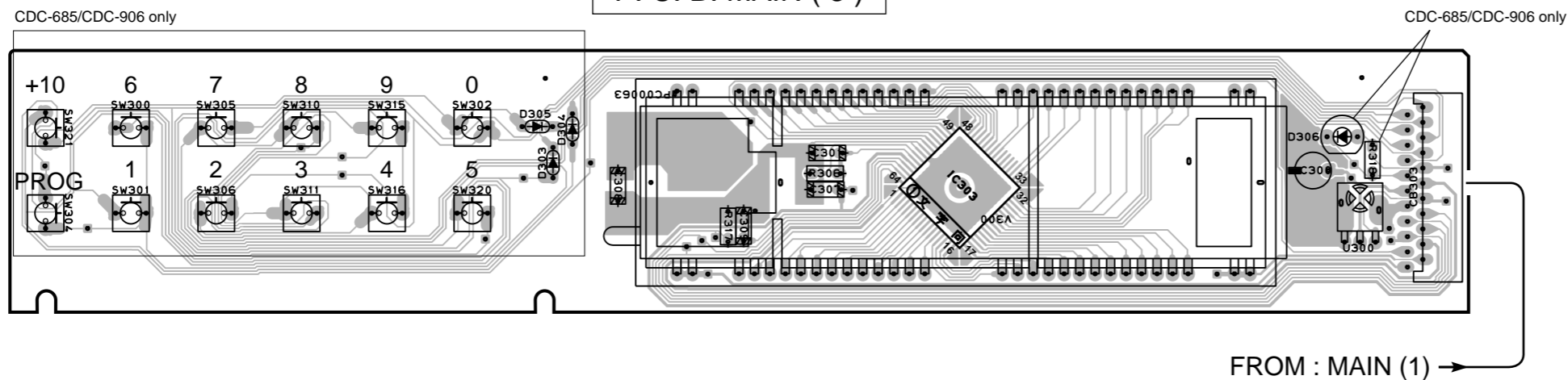


Bottom
V : 0.2V/div H : 0.5μsec/div
AC range 1 : 1 probe

PRINTED CIRCUIT BOARD (Foil side)

1

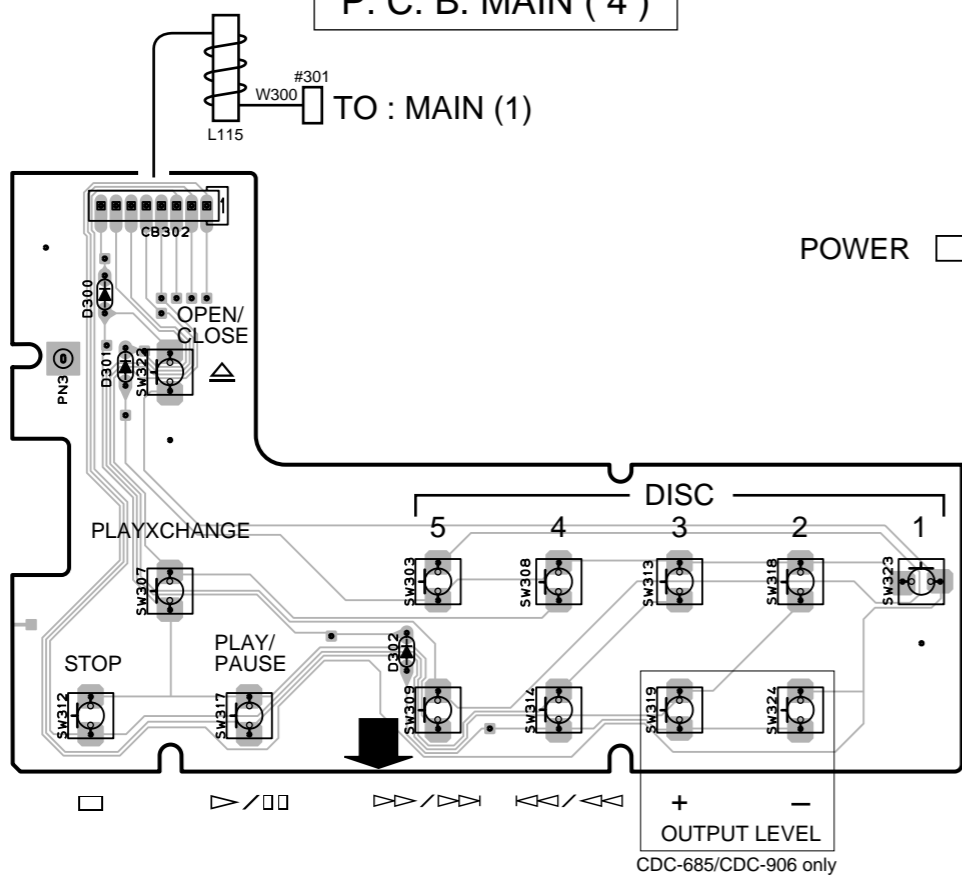
P. C. B. MAIN (3)



2

3

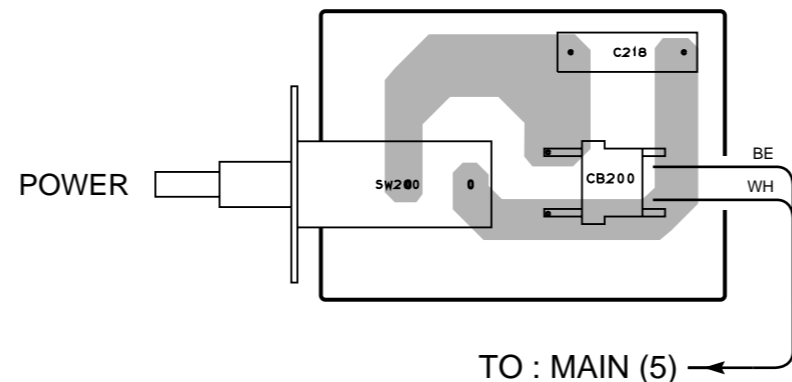
P. C. B. MAIN (4)



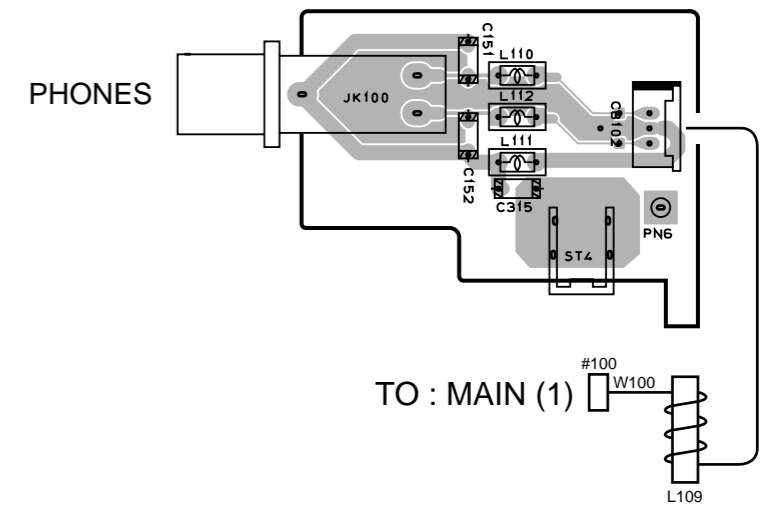
4

5

P. C. B. MAIN (6)

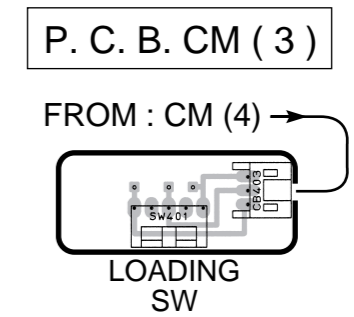
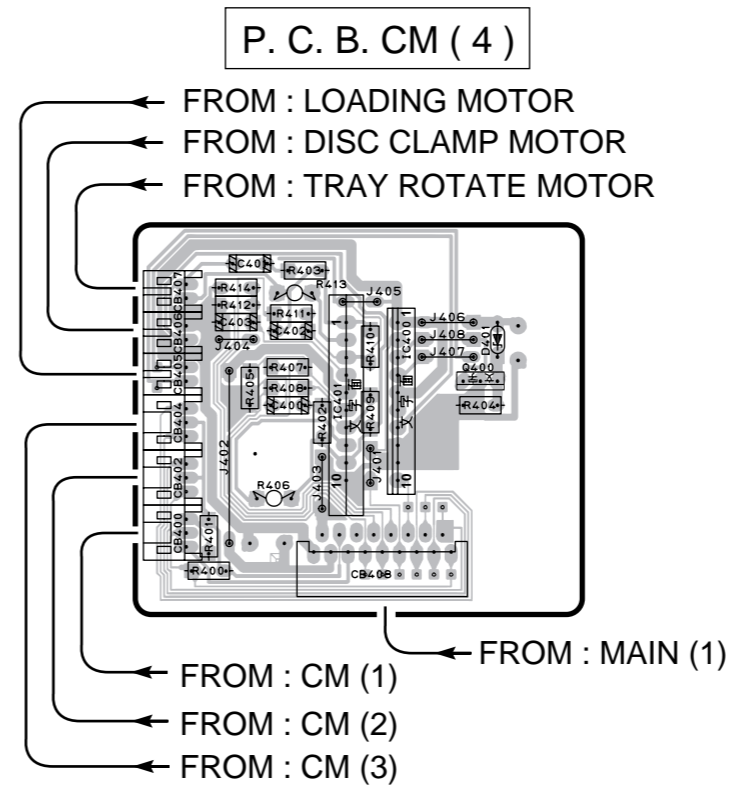
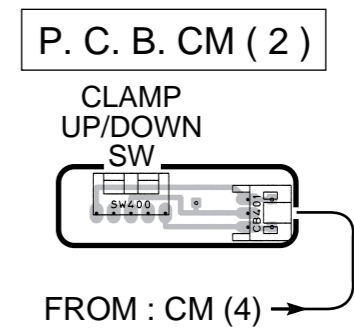
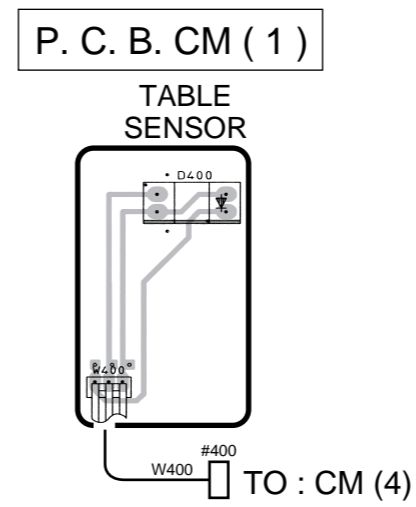
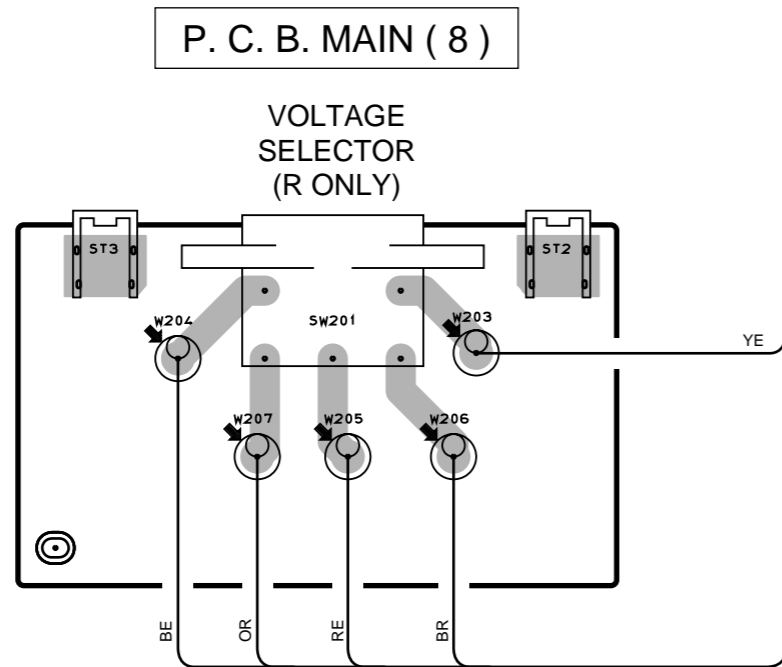
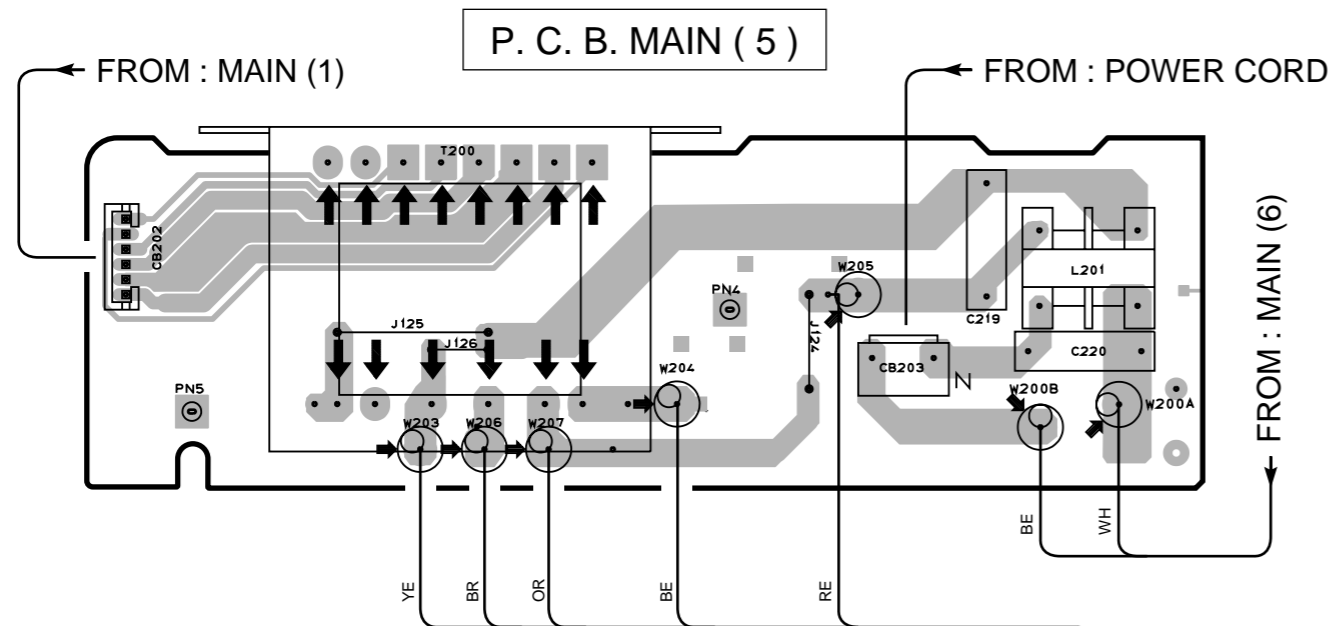


CDC-685/CDC-906
P. C. B. MAIN (7)

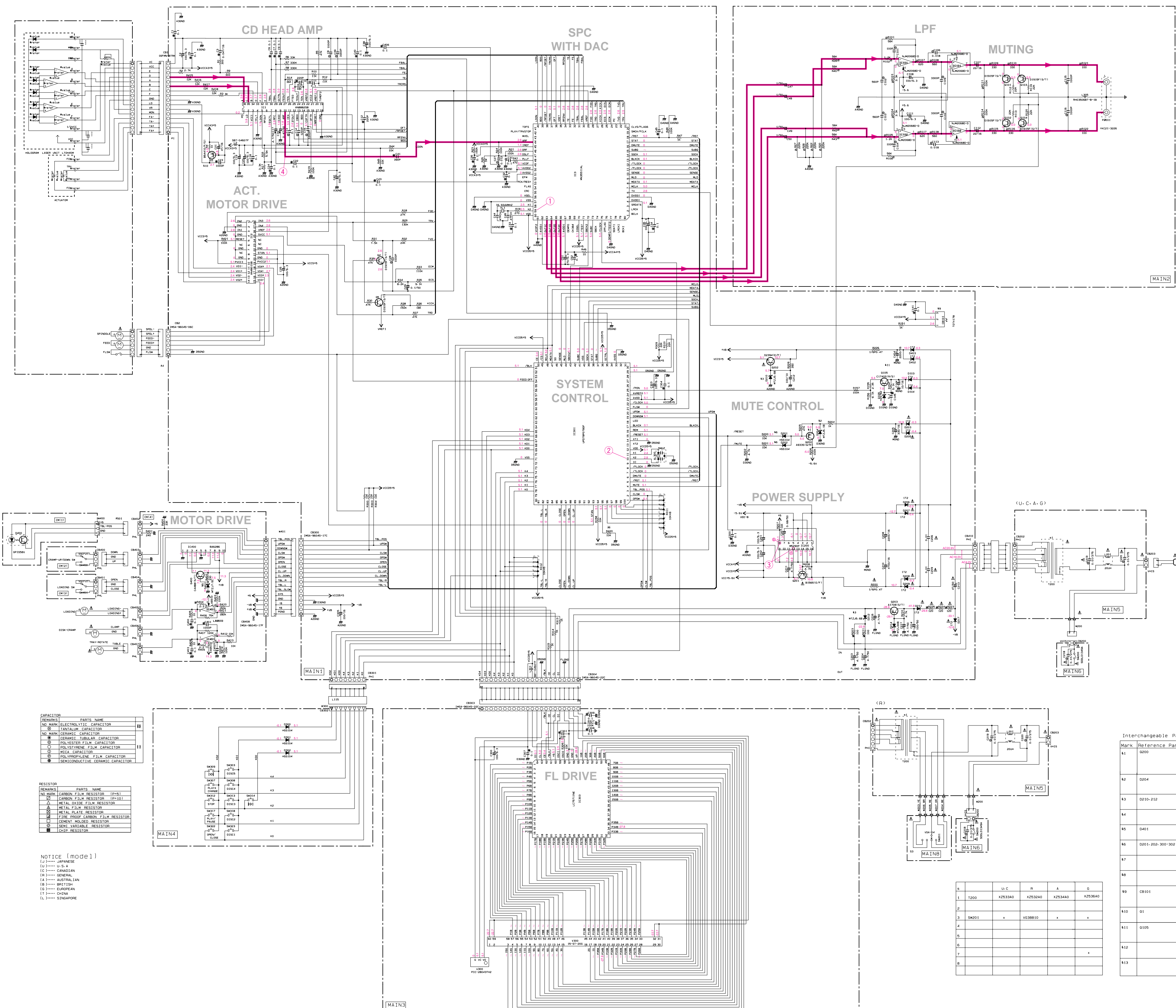


6

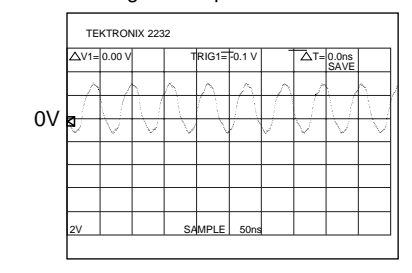
■ PRINTED CIRCUIT BOARD (Foil side)



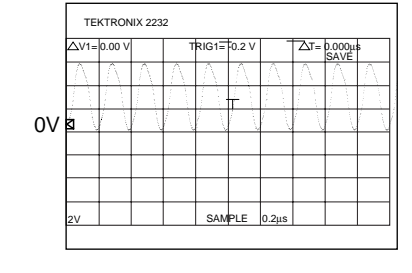
■ CDC-585/CDC-506 SCHEMATIC DIAGRAM



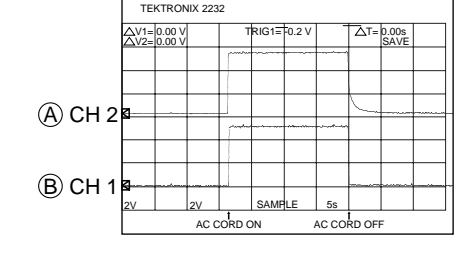
Point ① (Pin 59 of IC3)
 V : 2V/div H : 50nsec/div
 DC range 1 : 1 probe



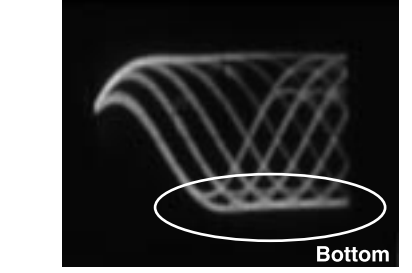
Point ② (Pin 10 of IC301)
 V : 2V/div H : 0.2µsec/div
 DC range 1 : 1 probe



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 probe



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



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

| REMARKS | PARTS NAME |
|----------|----------------------------------|
| NO. NAME | ELECTROLYTIC CAPACITOR |
| NO. NAME | VARICAP |
| NO. NAME | CERAMIC CAPACITOR |
| NO. NAME | CERAMIC TUBULAR CAPACITOR |
| NO. NAME | POLYESTER FILM CAPACITOR |
| NO. NAME | POLYPROPYLENE FILM CAPACITOR |
| NO. NAME | MICA CAPACITOR |
| NO. NAME | POLYIMIDE FILM CAPACITOR |
| NO. NAME | SEMICONDUCTIVE CERAMIC CAPACITOR |

| REMARKS | PARTS NAME |
|----------|---------------------------------|
| NO. NAME | CARBON FILM RESISTOR (P-5) |
| NO. NAME | CARBON FILM RESISTOR (P-10) |
| NO. NAME | METAL FILM RESISTOR |
| NO. NAME | METAL OXIDE FILM RESISTOR |
| NO. NAME | FILM PROOF CARBON FILM RESISTOR |
| NO. NAME | CERMET MIXED RESISTOR |
| NO. NAME | SEMI-VARIABLE RESISTOR |
| NO. NAME | LOGIC RESISTOR |

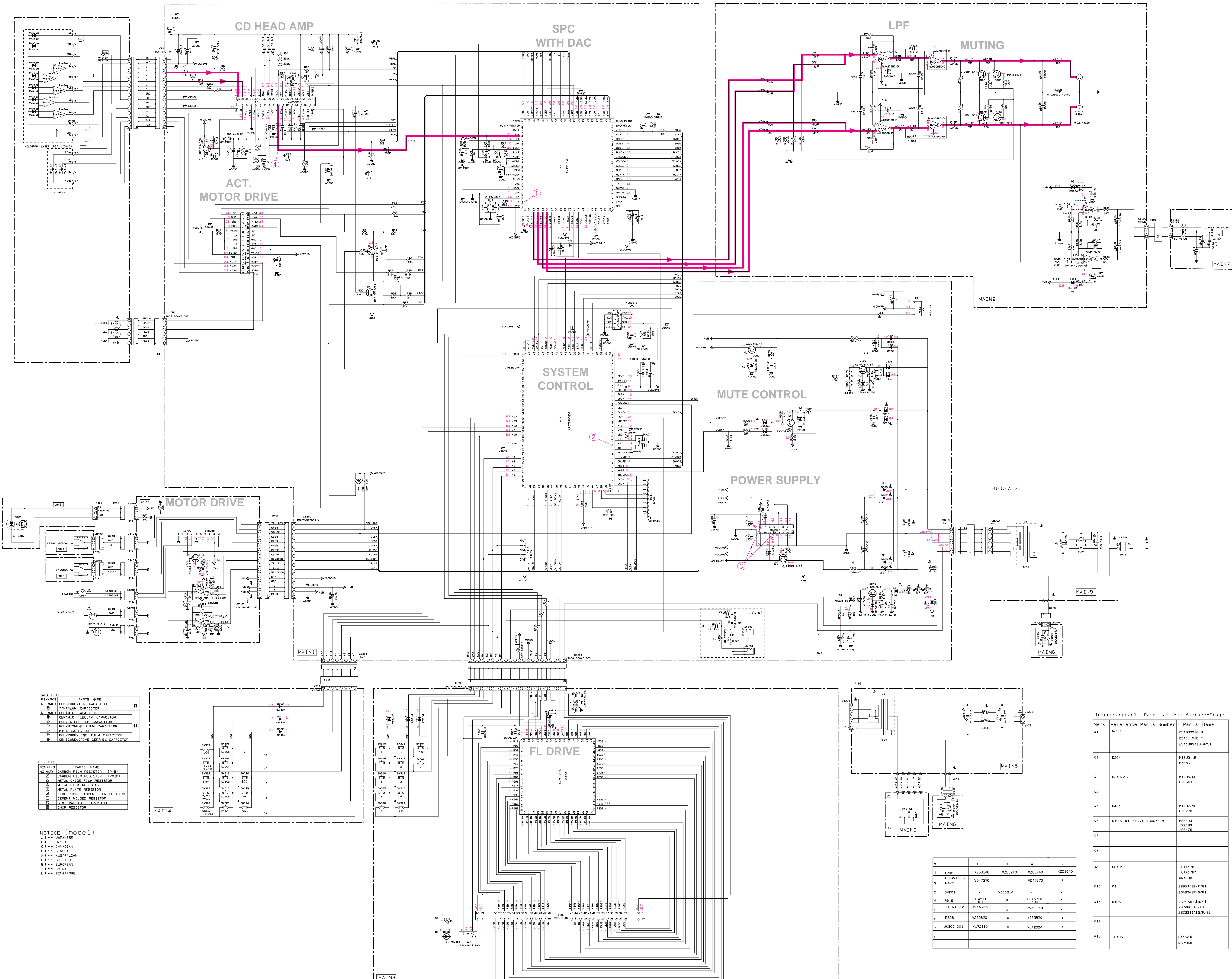
Notice (model)
 J : JAPANESE
 U : U.S.A.
 C : CANADIAN
 G : GENERAL
 A : AUSTRALIAN
 B : BRITISH
 E : EUROPEAN
 T : TAIWAN
 L : SINGAPORE

| Mark | Reference Parts Number | Parts Name |
|------|------------------------|--------------|
| K1 | 0200 | 26A93510/P1 |
| | | 26A11510/P1 |
| | | 26A120915/P1 |
| K2 | 0204 | W72L-18 |
| | | HZ5C1 |
| K3 | 0210-212 | W72L-08 |
| | | HZ5B43 |
| K4 | | |
| K5 | D401 | W72L-0C |
| | | HZ5T02 |
| K6 | 0201-202-300-302 | H55104 |
| | | 155123 |
| | | 155126 |
| K7 | | |
| K8 | | |
| K9 | 08101 | T07478 |
| | | T07478A |
| | | 07478 |
| K10 | 01 | 258441E/P/01 |
| | | 258441E/P/01 |
| | | 258441E/P/01 |
| K11 | 0105 | 25C17405A/P1 |
| | | 25C2031E/P1 |
| | | 25C3311A/P1 |
| K12 | | |
| K13 | | |

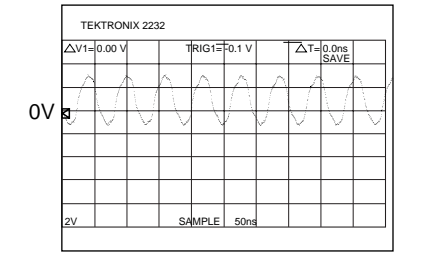
| | U-C | B | L | G |
|---|-------|---------|---------|---------|
| 1 | 1200 | X253340 | X253340 | X253340 |
| 2 | | | | |
| 3 | 04201 | X | V538810 | X |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |

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

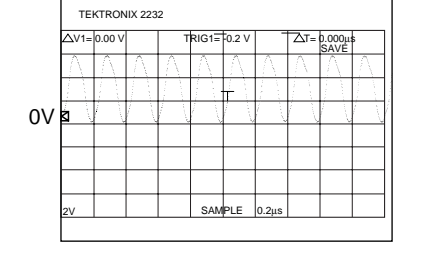
■ CDC-685/CDC-906 SCHEMATIC DIAGRAM



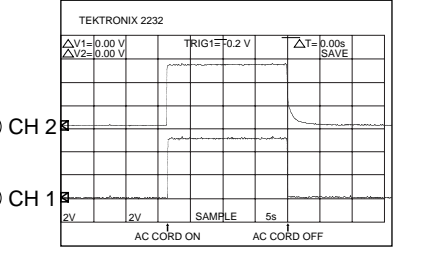
Point ① (Pin 59 of IC3)
 V : 2V/div H : 50nsec/div
 DC range 1 : 1 probe



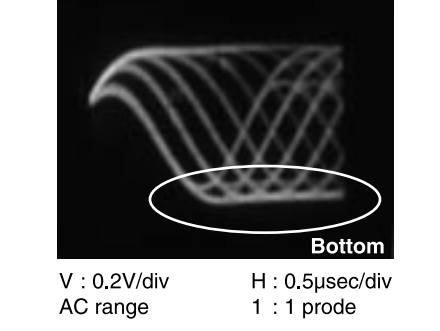
Point ② (Pin 10 of IC301)
 V : 2V/div H : 0.2usec/div
 DC range 1 : 1 probe



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



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



CAPACITOR

| REMARKS | SYMBOL | PARTS NAME |
|---------|-----------------------------------|------------|
| NO MARK | (ELECTROLYTIC CAPACITOR) | |
| | (TANTALUM CAPACITOR) | |
| | (CERAMIC TUBULAR CAPACITOR) | |
| | (POLYESTER FILM CAPACITOR) | |
| | (POLYETHYLENE FILM CAPACITOR) | |
| | (MICA CAPACITOR) | |
| | (POLYPROPYLENE FILM CAPACITOR) | |
| | (PROCONDUCTIVE CERAMIC CAPACITOR) | |

RESISTOR

| REMARKS | SYMBOL | PARTS NAME |
|---------|----------------------------------|------------|
| NO MARK | (CARBON FILM RESISTOR (P-N)) | |
| | (CARBON FILM RESISTOR (P-10)) | |
| | (METAL GLAZE FILM RESISTOR) | |
| | (FINE PORE CARBON FILM RESISTOR) | |
| | (CONCRETE RESISTOR) | |
| | (SEMI-VARIABLE RESISTOR) | |
| | (LIQUID RESISTOR) | |

NOTICE (mode1)
 (J)..... JAPANESE
 (U)..... U.S.A.
 (C)..... CANADIAN
 (G)..... GENERAL
 (A)..... AUSTRALIAN
 (B)..... BRITISH
 (E)..... EUROPEAN
 (T)..... CHINA
 (L)..... SINGAPORE

Interchangeable Parts at Manufacture-Stage

| Mark | Reference Parts Number | Parts Name |
|------|--------------------------|-----------------|
| K1 | D200 | 2S43001(G/R) |
| | | 2S41151E/P1 |
| | | 2S4130941G/R/S1 |
| K2 | D204 | W12J-5B |
| | | H25C1 |
| K3 | D210-212 | W12J-5B |
| | | H25C1 |
| K4 | | |
| K5 | D401 | W12J-5C |
| | | H257C2 |
| K6 | D100-101-201-202-300-305 | H55104 |
| | | 1S5133 |
| | | 1S5135 |
| K7 | | |
| K8 | | |
| K9 | CB101 | 10T417B |
| | | 10T417A |
| | | 6P47307 |
| K10 | G1 | 2S6544E/P/S1 |
| | | 2S48341F/G/R1 |
| K11 | G105 | 2S174021B/S1 |
| | | 2S126031E/P1 |
| | | 2S133141B/R/S1 |
| K12 | | |
| K13 | IC105 | 8415218 |
| | | H5218AP |

| S | U-C | R | A | G |
|---|-----------|---------|---------|---------|
| 1 | T200 | K293340 | K293240 | K293440 |
| 2 | L300-L303 | V047370 | x | V047370 |
| 3 | L304 | x | x | x |
| 4 | SN401 | x | V038810 | x |
| 5 | R318 | HP45710 | x | HP45710 |
| 6 | C311-C312 | V059910 | x | V059910 |
| 7 | O306 | V059820 | x | V059820 |
| 8 | VJ300-301 | VJ72680 | x | VJ72680 |

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

PARTS LIST

■ ELECTRICAL PARTS

■ WARNING

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

- Carbon resistors (1/6W or 1/4W) are not included in the ELECTRICAL PARTS List. For the parts No. of the carbon resistors, refer to last page.

ABBREVIATIONS IN THIS LIST ARE AS FOLLOWS :

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

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

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

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

* New Parts

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

* New Parts

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

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

* New Parts

| Schm Ref. | PART NO. | Description |
|-----------|----------|---------------------------|
| Q200 | iA093320 | TR 2SA933S Q, R |
| △ Q201 | VS883300 | TR 2SB1565 E, F |
| △ Q202 | VS883400 | TR 2SD2394 E, F |
| Q203 | VP872600 | TR 2SA1708 S, T |
| R203 | HV755100 | R. CAR. FP 100 1/4W |
| R211 | HV755100 | R. CAR. FP 100 1/4W |
| △ R222 | V2370600 | R. FUS 0.47 1/6W |
| △ R223 | HV755120 | R. CAR. FP 120 1/4W |
| △ R224 | HV755120 | R. CAR. FP 120 1/4W |
| △ R225 | HV755120 | R. CAR. FP 120 1/4W |
| R226 | V2370600 | R. FUS 0.47 1/6W |
| R311 | VF771900 | R. ARRAY RGL8X103J |
| * R312 | VK860600 | R. ARRAY RGL5X103J |
| ST1 | V4040500 | SCR. TERM M3 |
| ST2 | V4040500 | SCR. TERM M3(R) |
| ST3 | V4040500 | SCR. TERM M3(R) |
| △ SW200 | VZ364100 | SW. PUSH SDDL1-A2-F-1 |
| △ SW201 | V5993500 | VOLT. SELECT 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. CRYST 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

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

P.C.B. CM

| 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 100 1/4W |
| R150 | HV755100 | R.CAR.FP 100 1/4W |
| R203 | HV755100 | R.CAR.FP 100 1/4W |
| R211 | HV755100 | R.CAR.FP 100 1/4W |
| △ R222 | V2370600 | R.FUS 0.47 1/6W |
| △ R223 | HV755120 | R.CAR.FP 120 1/4W |
| △ R224 | HV755120 | R.CAR.FP 120 1/4W |
| △ R225 | HV755120 | R.CAR.FP 120 1/4W |
| △ R226 | V2370600 | R.FUS 0.47 1/6W |
| R311 | VF771900 | R.ARRAY RGLE8X103J |
| * R312 | VK860600 | R.ARRAY RGLE5X103J |
| ST1 | V4040500 | SCR.TERM M3 |
| ST2 | V4040500 | SCR.TERM M3(R) |
| ST3 | V4040500 | SCR.TERM M3(R) |
| ST4 | VN008600 | SCR.TERM 8.3x13 |
| △ SW200 | VZ364100 | SW.PUSH SDDL1-A2-F-1 |
| △ SW201 | V5993500 | VOLT.SELCT VSA-14-1(R) |
| SW300 | VG392900 | SW.TACT SKHVAA |

* New Parts

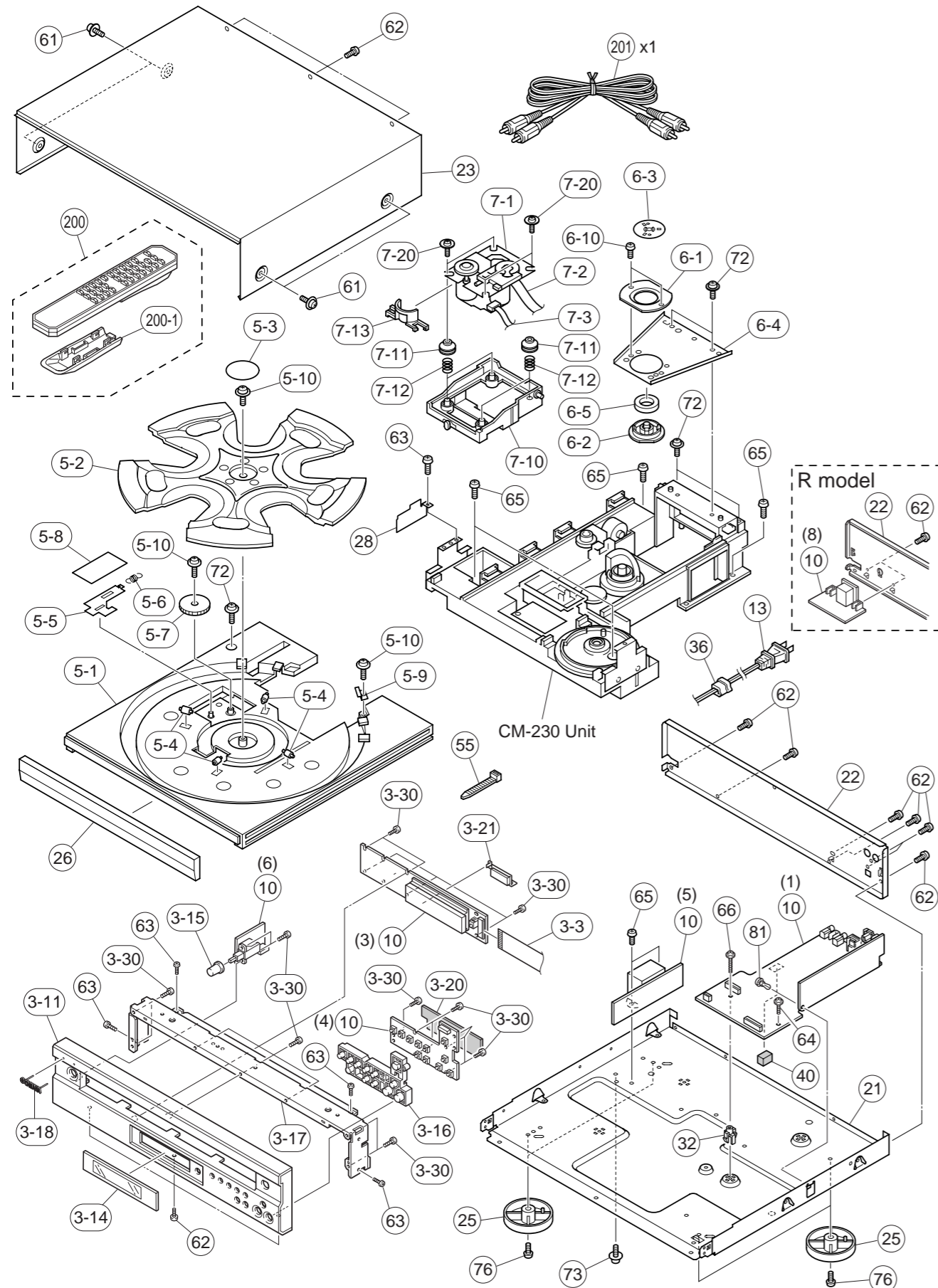
| Schm Ref. | PART NO. | Description |
|-----------|----------|-------------------------|
| SW301 | VG392900 | SW.TACT SKHVAA |
| SW302 | VG392900 | SW.TACT SKHVAA |
| SW303 | VG392900 | SW.TACT SKHVAA |
| SW304 | VG392900 | SW.TACT SKHVAA |
| SW305 | VG392900 | SW.TACT SKHVAA |
| SW306 | VG392900 | 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

| 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 1 1/4W |
| R413 | HV753100 | R.CAR.FP 1 1/4W |
| * SW400 | Vi294000 | SW.LEVER SSCF21 |
| * SW401 | Vi294000 | SW.LEVER SSCF21 |

* New Parts

1 ■ CDC-585/CDC-506 EXPLODED VIEW



■ MECHANICAL PARTS (CDC-585/CDC-506)

| Ref. No. | PART NO. | Description | Remarks | Markets |
|----------|----------|------------------------|------------------|----------------|
| * 3-3 | MF122300 | FLEXIBLE FLAT CABLE | 22P 300mm P=1.25 | |
| * 3-11 | V6401800 | FRONT PANEL | | CDC-506GP |
| * 3-11 | V6401700 | FRONT PANEL | | CDC-585BL |
| * 3-14 | V6402300 | SHEET/WINDOW | | |
| 3-15 | V5914500 | BUTTON/D12 | | CDC-585BL |
| 3-15 | V5914700 | BUTTON/D12 | | CDC-506GP |
| * 3-16 | V6402400 | BUTTON CASE | | CDC-585BL |
| * 3-16 | V6402700 | BUTTON CASE | | CDC-506GP |
| * 3-17 | V6402200 | SUPPORT/PANEL | | |
| 3-18 | V6034200 | EMBLEM | | CDC-506GP |
| 3-18 | V6034100 | EMBLEM | | CDC-585BL |
| * 3-20 | V6673000 | DAMPER | | |
| * 3-21 | V6782100 | SHEET/EARTH 585 | | |
| 3-30 | EP630220 | BIND HEAD P-TITE SCREW | 3x8 ZMC2-BL | |
| 5-1 | VZ761500 | TRAY | B | |
| 5-2 | V2430500 | TABLE, C | | |
| 5-3 | V2133100 | PLATE, TABLE | | |
| 5-4 | VS037300 | ROLLER | | |
| 5-5 | VW014400 | 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) |

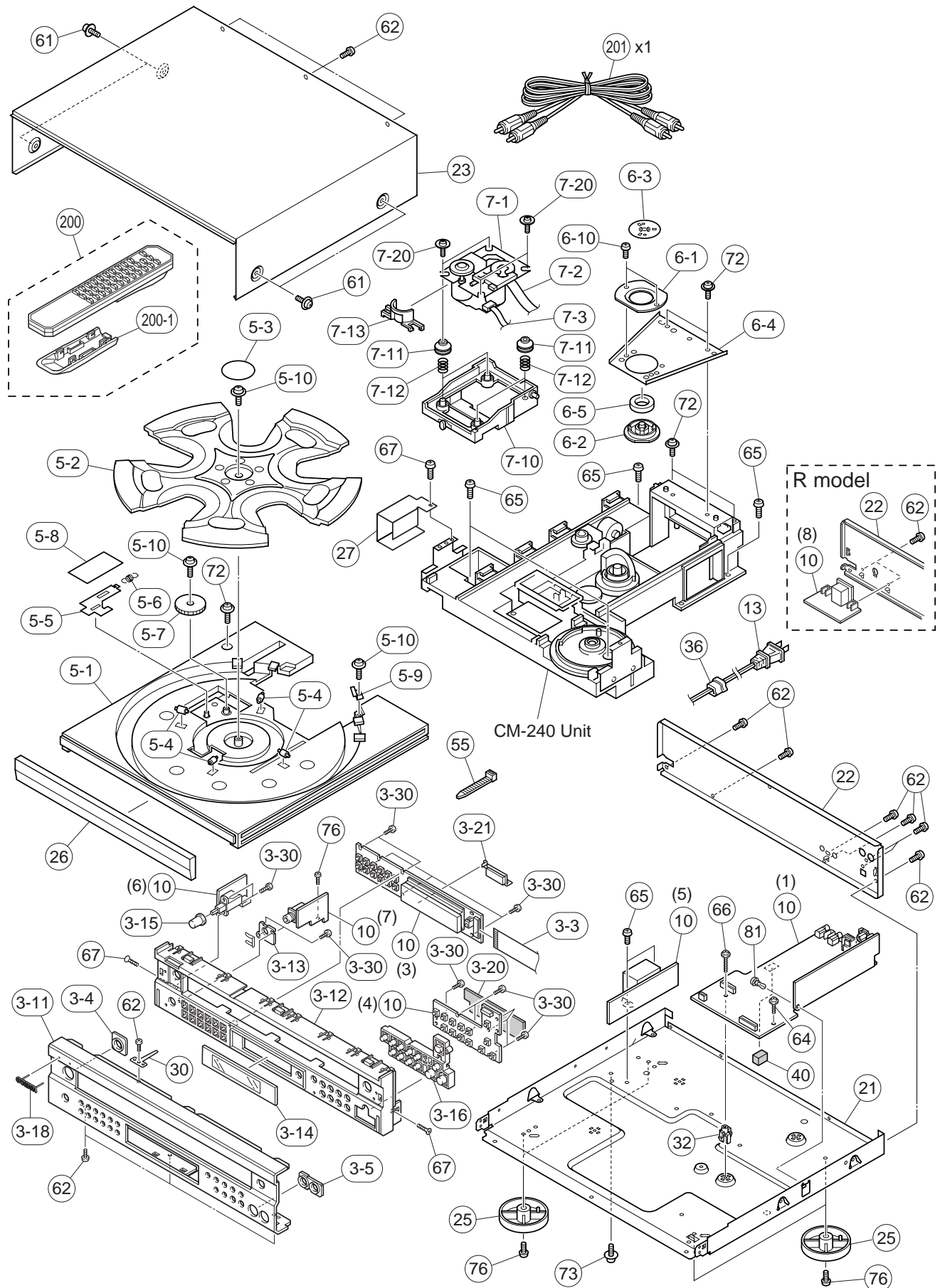
* New Parts

| Ref. No. | PART NO. | Description | Remarks | Markets |
|----------|----------|------------------------------|----------------|------------------------|
| * 22 | V6403400 | REAR PANEL | | |
| * 23 | V7354300 | TOP COVER | | (A) |
| 25 | VQ780300 | LEG | D60xH16 | |
| 25 | VQ982800 | LEG | D60xH16 | CDC-585BL 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-585/CDC-506/CDC-685/CDC-906

1 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) |

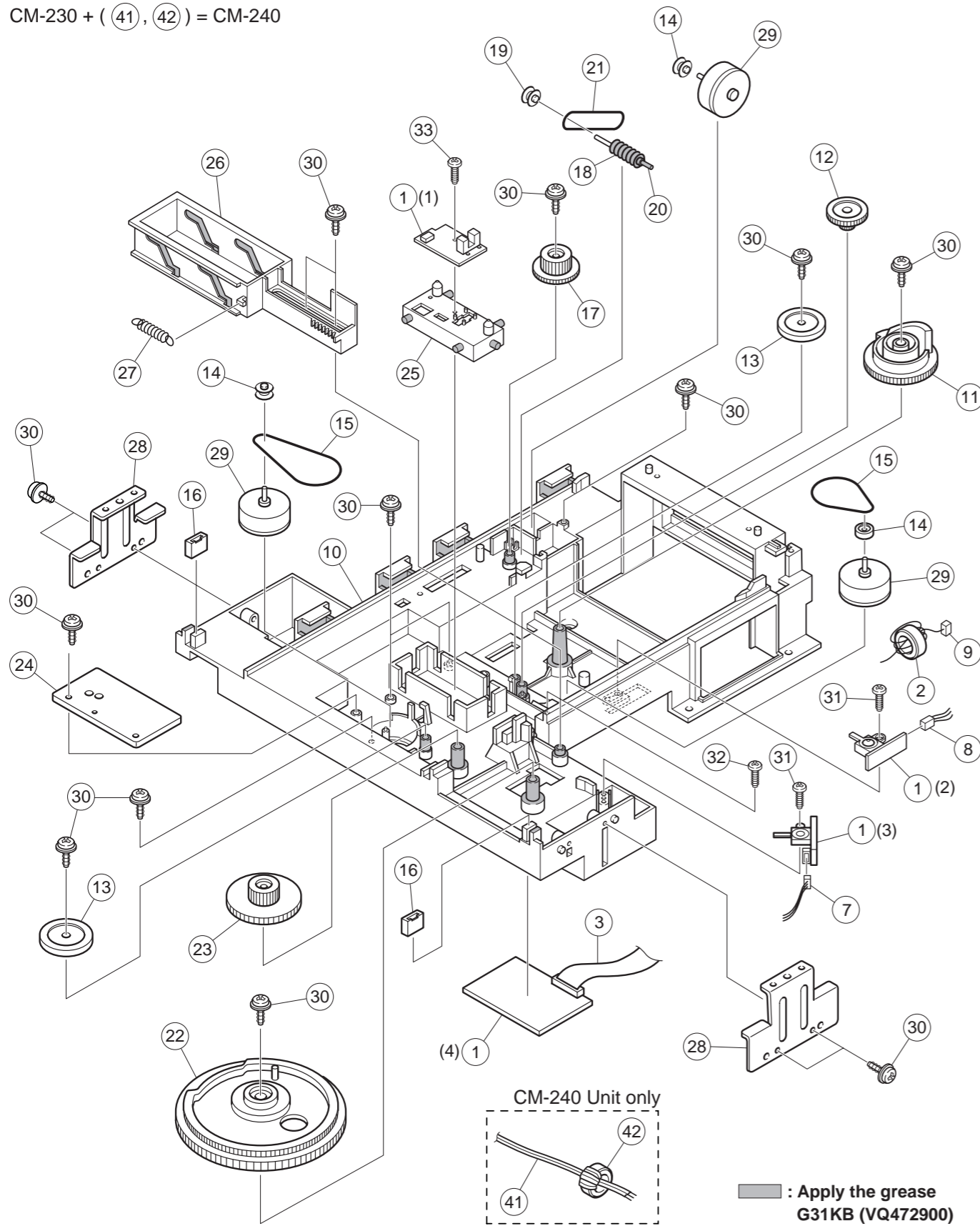
* New Parts

| Ref. No. | PART NO. | Description | Remarks | Markets |
|----------|----------|-------------|------------------------------|----------------------------------|
| △ * | 13 | VN363600 | POWER CORD ASS'Y | (G) |
| △ * | 13 | VV437300 | POWER CORD ASS'Y | (B) |
| △ * | 13 | VZ542500 | POWER CORD ASS'Y | (R) |
| * | 21 | V6305700 | CHASSIS | |
| * | 22 | V6403500 | REAR PANEL | CDC-685BL, TI (UC) |
| * | 22 | V6403600 | REAR PANEL | CDC-685BL, TI (R) |
| * | 22 | V6403700 | REAR PANEL | CDC-685BL, TI (A) |
| * | 22 | V6403800 | REAR PANEL | CDC-685BL, TI (BG) |
| * | 22 | V6403900 | REAR PANEL | CDC-906GP (UC) |
| * | 22 | V6404000 | REAR PANEL | CDC-906GP (A) |
| | 23 | V2151800 | TOP COVER | CDC-685TI |
| * | 23 | V7354300 | TOP COVER | CDC-685BL, 906GP |
| | 25 | VQ780300 | LEG | D60xH16 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

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

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



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

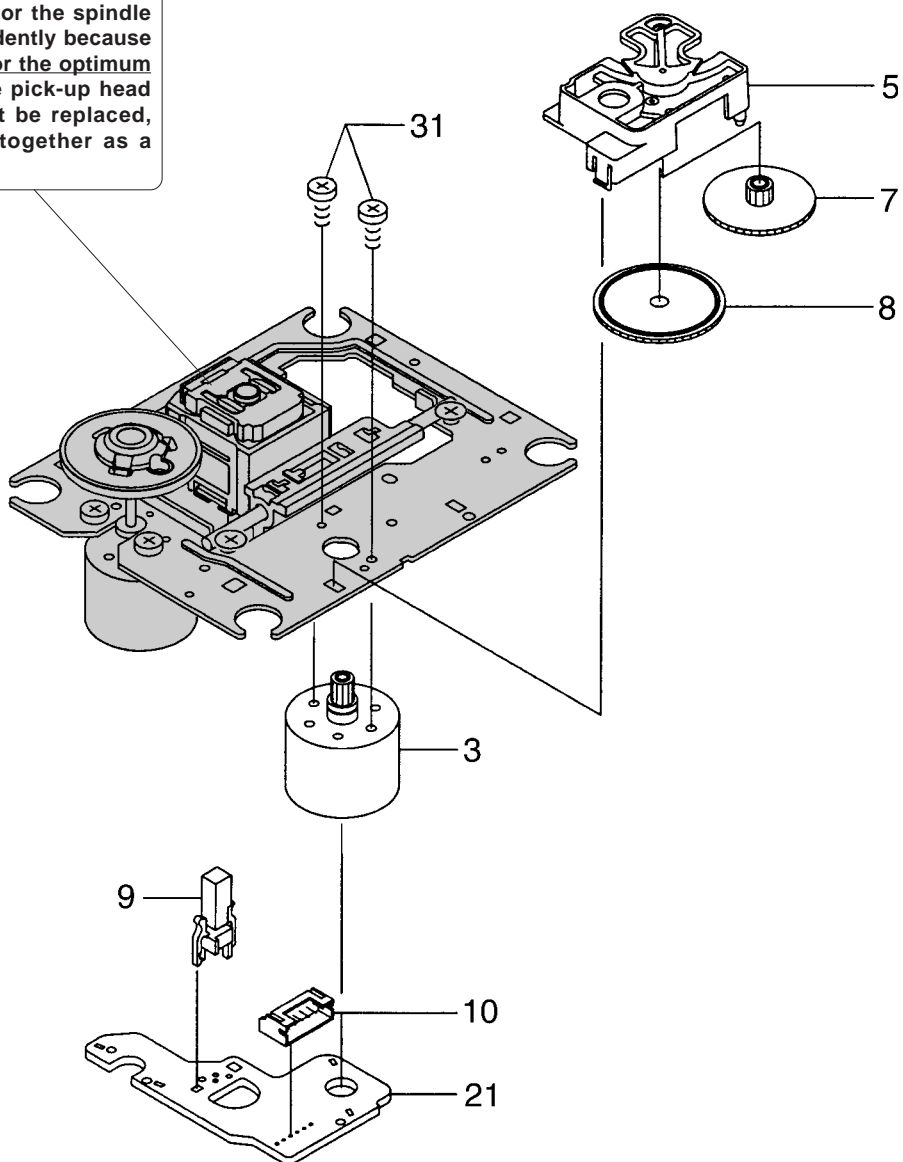
| Ref. No. | PART NO. | Description | Remarks | Markets |
|----------|----------|------------------------|-----------------|----------------|
| 1 | V3172600 | P.C.B. ASS'Y | CM | CM-230, CM-240 |
| * 2 | V6660800 | FERRITE CORE | F5 T19x10x10 | CM-230, CM-240 |
| 3 | V3340400 | CONNECTOR, FLAT CABLE | 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

1 ■ EXPLODED VIEW (PU Mecha. Unit)

Note :

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

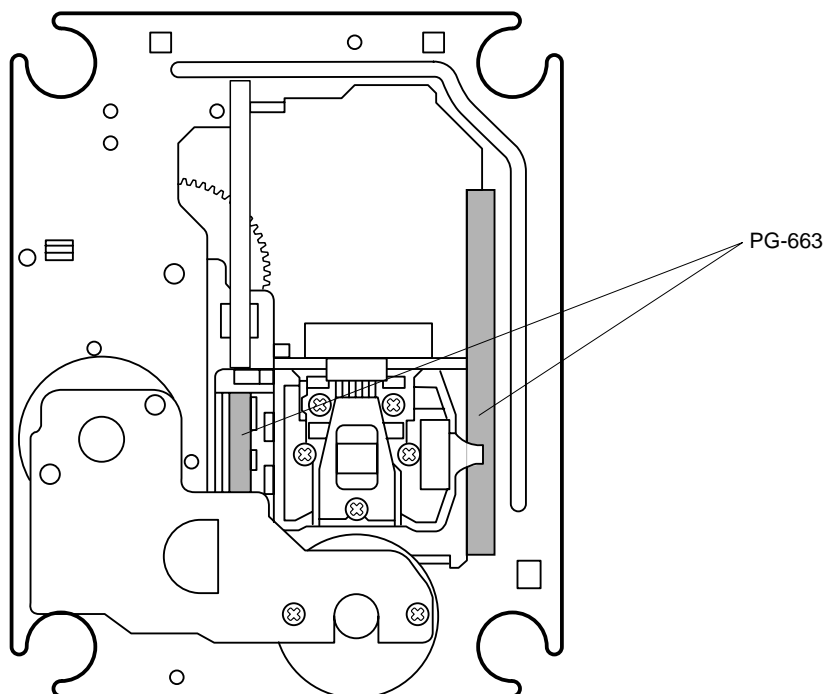
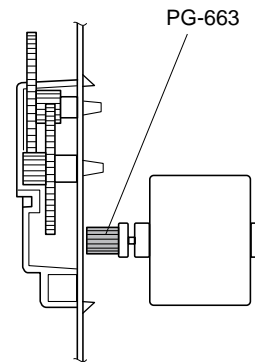
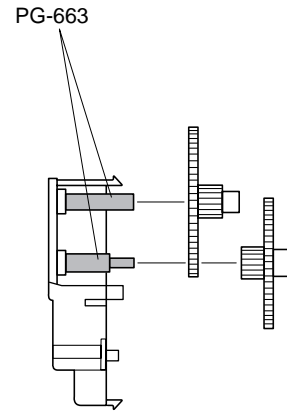
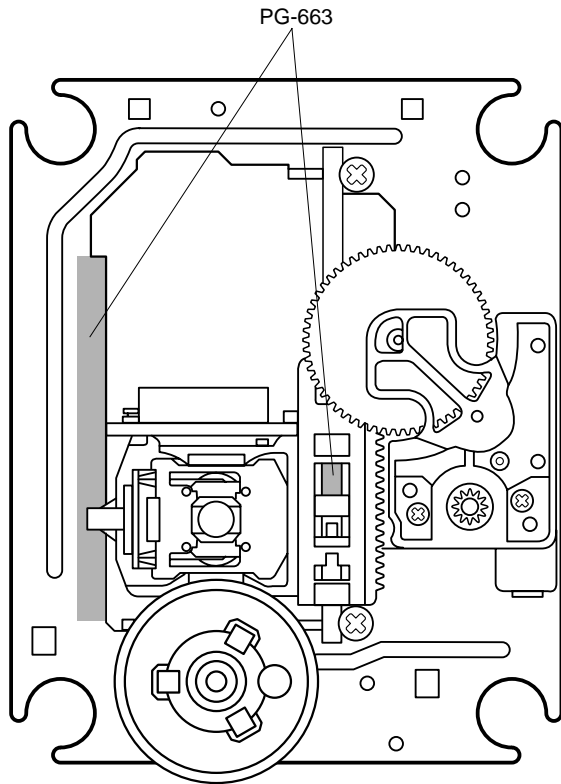


| Ref. No. | PART NO. | Description | Remarks | Markets |
|----------|----------|------------------|-----------|---------------|
| | V3175200 | PU MECHA. UNIT | DA11T3 | |
| 3 | XX702580 | SLED MOTOR ASS'Y | 6.0V | 1EA0M10A09700 |
| 5 | XX702590 | COVER, GEAR | | 1EA2121A20000 |
| 7 | XX702610 | GEAR,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

* New Parts

GREASE APPLICATION DIAGRAM (PU Mechanism)

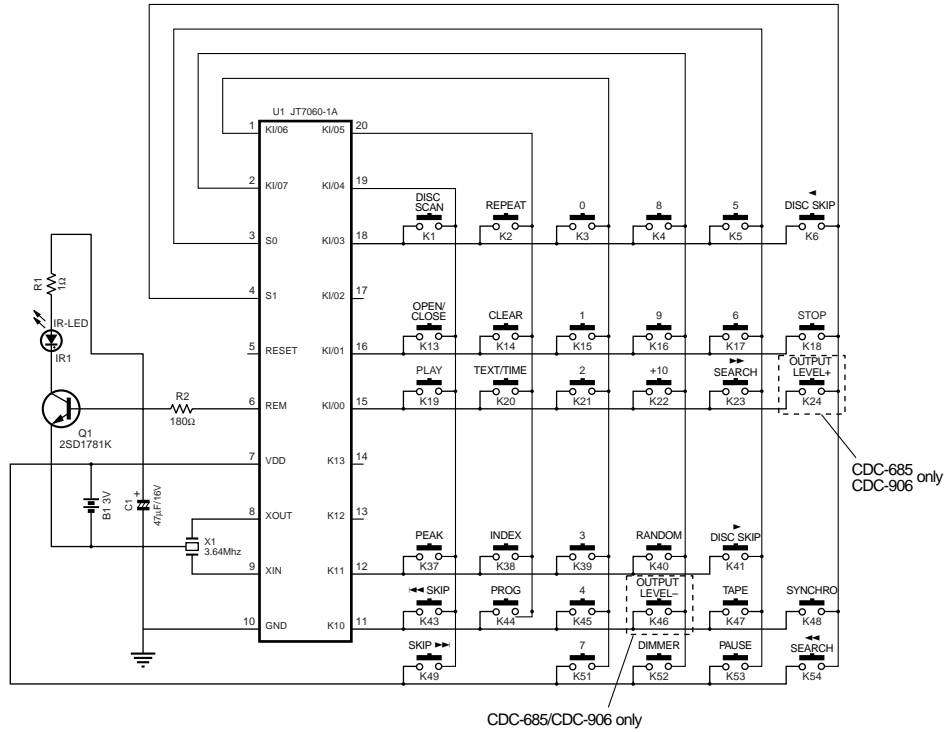
| |
|----------------------------------|
| Apply the grease |
| Molykote PG-663 (P/No. AAX01170) |



1

REMOTE CONTROL TRANSMITTER SCHEMATIC DIAGRAM

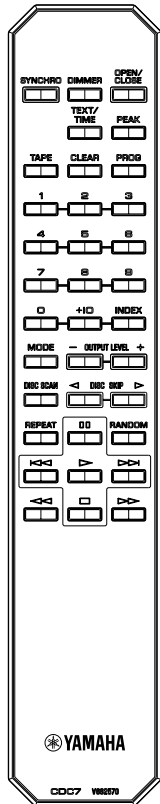
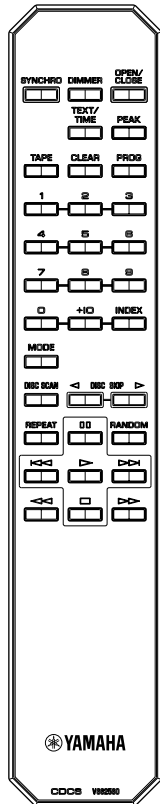
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4

● CDC-585/CDC-506

● CDC-685/CDC-906



5

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

6

CDC-685 only
CDC-906

7

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 | | | |

1/4W Type
HJ35 ○○○○

1/6W Type
HF85 ○○○○