

DENON

Hi-Fi Component

SERVICE MANUAL

MODEL DCD-S10

MODEL DCD-3000

STEREO CD PLAYER



DCD-S10



DCD-3000



— TABLE OF CONTENTS —

| | |
|---|--------|
| OPERATING INSTRUCTIONS | 2-9 |
| SPECIFICATIONS | 10 |
| DISASSEMBLY | 11 |
| ADJUSTMENT | 12-15 |
| HEAT RUN MODE FUNCTION | 16 |
| JUDGMENT STANDARDS FOR OPTICAL PICK-UP REPLACEMENT | 16-20 |
| PARTS LIST OF P.W.BOARD | 21-27 |
| IC TERMINAL FUNCTION | 28-31 |
| SEMICONDUCTORS | 32-35 |
| EXPLODED VIEW (DCD-S10 Europe, U.S.A. & Canada Models) | 36 |
| PARTS LIST OF EXPLODED VIEW | 37, 38 |
| EXPLODED VIEW (DCD-S10 Asia Model) | 39 |
| EXPLODED VIEW (DCD-3000 Europe, U.S.A. & Canada and Multi-Voltage Models) | 40 |
| PARTS LIST OF EXPLODED VIEW | 41 |
| PARTS LIST OF FG-76/77 MECHANISM UNIT | 42 |
| EXPLODED VIEW OF FG-76/77 MECHANISM UNIT | 42 |
| P.W.BOARD UNIT ASSY | 43-45 |
| WIRING DIAGRAM | 46 |
| SCHEMATIC DIAGRAM-1/3, 2/3, 3/3 | 47-49 |

NIPPON COLUMBIA CO., LTD.

IMPORTANT TO SAFETY

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

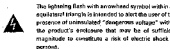
CAUTION:

1. Handle the power supply cord carefully. Do not damage or deform the power supply cord. If it is damaged or abraded, it may cause electrical shock or malfunction when used. When removing from wall outlet, be sure to remove by holding the plug attachment and not by pulling the cord.
2. Do not open the top cover. In order to prevent electric shock, do not open the top cover, if problem occurs, contact your DENON DEALER.
3. Do not place anything inside. Do not place metal objects or small objects inside the CD player. Electric shock or malfunction may result.

Please record and retain the Model name and serial number of your set shown on the rating label.
Model No. 9CD-5101900 Serial No.



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with crossed symbol within an equilateral triangle is intended to alert the user of the presence of unenergized "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

NOTE:

This CD player uses the semiconductor laser. To allow you to enjoy music in a better operation, it is recommended to use inside a room of 15°C (59°F) to 35°C (95°F).

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.

NOTE:

This unit may cause interference to radio and television reception if it is not operated in strict accordance with the OPERATING INSTRUCTIONS.

This unit complies with Class B computing device rules in accordance with the specifications in Subpart J of Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. If the unit does cause interference to any radio or television reception, try to reduce it by one or more of the following means:

- a) Turn the other unit to improve reception
- b) Move the unit
- c) Move the unit away from other sets
- d) Plug this unit respectively into a different AC outlet

* This is extra in accordance with Section 15.108 of the FCC Rules.

* FOR U.S.A. & CANADA MODEL ONLY

CAUTION

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR OTHER OUTLET UNLESS THE SLICES CAN BE FULLY INSERTED TO PREVENT SLICE EXPOSURE.

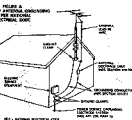
* POUR LES MODELES AMERICAINS ET CANADIENS UNIVERSEMENT

ATTENTION










POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT EN UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

SAFETY INSTRUCTIONS

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Water and Moisture - The appliance should not be used near water - for example, near a bathtub, washbasin, kitchen sink, laundry tubs, in a wet basement, or near a swimming pool, and the like.
6. Cords and Strands - The appliance should be used only with a cord or stand that is recommended by the manufacturer.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
7. Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation opening; or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. Grounding or Polarization - Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.
12. Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
14. Cleaning - The appliance should be cleaned only as recommended by the manufacturer.
15. Power Lines - An outdoor antenna should be located away from power lines.
16. Outdoor Antenna Grounding - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.
17. Noise Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
18. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
19. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
20. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.



NOTE ON USE/OBSERVATIONS RELATIVES A L'UTILISATION/NOTAS SOBRE EL USO

| | | |
|--|--|---|
|  <ul style="list-style-type: none"> • Avoid high temperatures. Allow for sufficient heat dispersion when installed on a rack. • Éviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. • Evite altas temperaturas. Permítele la suficiente dispersión del calor cuando esté instalado en la consola. |  <ul style="list-style-type: none"> • Keep the set free from moisture, water, and dust. • Protéger l'appareil contre l'humidité, l'eau et la poussière. • Mantenga el equipo libre de humedad, agua y polvo. |  <ul style="list-style-type: none"> • Do not let foreign objects in the set. • Ne pas laisser des objets étrangers dans l'appareil. • No deje objetos extraños dentro del equipo. |
|  <ul style="list-style-type: none"> • Handle the power cord carefully. Hold the plug when unplugging the cord. • Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. • Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía. |  <ul style="list-style-type: none"> • Unplug the power cord when not using the set for long periods of time. • Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes. • Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo. |  <ul style="list-style-type: none"> • Do not let insects, worms, and termites come in contact with the set. • Ne pas mettre en contact des insectes, du vermine et un termites avec l'appareil. • No permita el contacto de insectos, gusanos y dilayentes con el equipo. |
|  <ul style="list-style-type: none"> • Handle the power cord carefully. Hold the plug when unplugging the cord. • Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. • Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía. |  <p>*[For sets with ventilation holes]</p> <ul style="list-style-type: none"> • Do not obstruct the ventilation holes. • Ne pas obstruer les trous d'aération. • No obstuya los orificios de ventilación. |  <ul style="list-style-type: none"> • Never disassemble or modify the set in any way. • Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre. • Nunca desarme o modifique el equipo de ninguna manera. |

Thank you for purchasing this DENON Compact Disc Player. Please read the operating instructions thoroughly in order to acquaint yourself with the CD player and achieve maximum satisfaction from it.

FEATURES

The DCD-510/3000 is a CD player equipped with DENON's unique advanced super-linear converter which eliminates loss of sound quality in the PCM playback section, plus carefully selected parts that reproduce all the sounds of the studio or hall where the compact disc was recorded with high performance and rich master expression.

(1) Utilize signal reproduction using a newly developed ALPHA processor

1. High speed interpolation by the newly developed ALPHA processor recovers the data below the USB (least significant bit) lost upon recording to provide smooth waveform reproduction.
2. The original signals, including such unusual waveforms as impulse response, can also be reproduced with the ringing.
3. The effects of ALPHA processing are particularly noticeable at low levels, such as when music gently fades out or gradually emerges from total silence.

(2) Real 20 bit D.A.C.

The DCD-510/3000 uses a new "S.L.I.C." (super linear converter) circuit in effect eliminating zero cross distortion, the main cause of loss of sound quality in the PCM playback section. Together with a real 20 bit digital/analog converter with excellent resolution, it greatly improves music reproducibility, especially at low volumes. In addition, two digital/analog converters are used for each channel, and the 8-tines oversampling further refines tone and improves resolution to recreate sound fields with rich nuanced expression. (3) Bravely power source The DCD-510/3000 uses a large transformer with independent coils for the digital servo circuitry and audio circuitry. In conjunction with a high capacity smooth capacitor, this offers power with room to spare.

— TABLE OF CONTENTS —

| | |
|--|--------|
| FEATURES | 5 |
| NAMES AND FUNCTIONS OF PARTS | 6, 7 |
| CONNECTOR | 8 |
| OPENING AND CLOSING THE DISC HOLDER AND LOADING A DISC | 9 |
| NORMAL CD PLAYBACK | 9 |
| ADVANCED CD PLAYBACK | 10-14 |
| TIMER-CONTROLLED PLAYBACK | 10 |
| THE COMPACT DISC | 15 |
| INSTALLATION PRECAUTIONS | 16 |
| TROUBLESHOOTING | 15 |
| PLAYBACK USING THE REMOTE-CONTROL UNIT | 16, 17 |
| SPECIFICATIONS | 18 |

Please check to make sure the following items are included with the main set in the cartons:

- | | |
|--|---|
| (1) Operating Instructions | 1 |
| (2) Connection Cord | 1 |
| (3) Remote Control Unit (RC-205 (ICD-510)) | 1 |
| RC-352 (ICD-3000) | 1 |
| (4) RIP-AA Dry Cell Battery | 2 |
| (5) AC Power Cord (Multi-Voltage model only) | 1 |

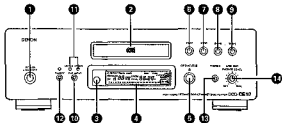
• Line Voltage Selection (for multiple voltage model only)

- The desired voltage may be set with the VOLTAGE SELECTOR knob on the rear panel, using a screwdriver.
- Do not twist the VOLTAGE SELECTOR knob with excessive force as this may cause damage.
- If the VOLTAGE SELECTOR knob does not turn smoothly, please contact a qualified serviceman.

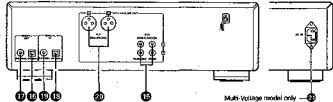
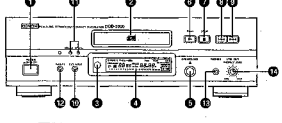


NAMES AND FUNCTIONS OF PARTS

DCD-510

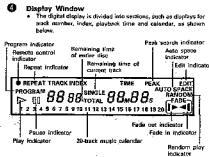


DCD-3000



Multi-Voltage model only

- 1 Power Switch (POWER)**
 - When the power is turned on, "PWR" appears at the track number display, and if no disc is loaded, "DISC-0000" appears on the number display and the calendar lights.
 - If a disc is loaded when the power is turned on, it is inverted seconds the total number of tracks on the disc appears at the track number display, the total time appears at the time display, and the numbers on the calendar display light up to the total number of tracks on the disc, then playback starts.
- 2 Disc Holder**
 - This is where the disc is loaded.
 - Press the disc holder open/close button () to open and close the disc holder.
 - The disc holder is also closed if the play button (PLAY) is pressed.
- 3 Remote Control Sensor (REMOTE SENSOR)**
 - This is the sensor for the wireless remote control signals.
 - For remote control, point the wireless remote control unit towards this sensor.
 - When a signal is transmitted from the remote control unit, the remote control indicator in the display () will light up briefly.



- 4 Disc Holder Open/Close Button () OPEN/CLOSE)**
 - Press this to open and close the disc holder ().
 - When pressed, the disc holder () opens, where pressed again, the disc holder () closes.
 - If a disc is loaded, the total number of tracks on the disc and the total playing time appear at the display window () several seconds after the disc holder () is closed.
- 5 Play Button (PLAY)**
 - Press this button to start playback of a disc.
 - When this button is pressed, D is displayed, and the track number being played is displayed together with the elapsed playback time of the track.
 - Tracks are shown on the calendar display. Once a track has been played, the corresponding track number goes out on the calendar display.
- 6 Stop Button (STOP)**
 - Press this button to stop playback.
 - The disc will stop rotating, and the number of tracks and total playing time of the disc are displayed on the TRACK NO. and TIME displays, respectively.
 - In case programmed playback is engaged when the button is pressed, the number of tracks and total playing time of the program are displayed.
- 7 Automatic Search Reverse Button ()**
 - Press this button to return the pickup to the beginning of the present track. From again to return to other tracks.
 - By pressing the button a number of times, the pickup will move back the corresponding number of tracks.
- 8 Automatic Search Forward Button ()**
 - Press this button to move the pickup forward to the beginning of the next track. Press again to move ahead to other tracks.
 - By pressing the button a number of times, the pickup will advance the corresponding number of tracks.
- 9 Input Selector Switches (EXT. INPUT)**
 - Use these switches to select the digital signals, input to the digital input on the rear panel.
 - The input signal to use on the CD player when the power is turned on. Press this switch to change the input signal in the following order: CD player - CD/ANALOG - OPTICAL - CD player
 - Digital audio signals with error sampling frequency (25kHz, 44.1kHz and 48kHz) can be connected to this unit's digital input.
 - The sampling frequency of the digital audio signals of the digital input selected with the input selector is shown on the display (LED, 44 or 48).
 - The sampling frequency is not displayed if no external input is connected.
 - The input indicator flashes at this time.
- 10 Input Indicators (COAXIAL/OPTICAL)**
 - The LEDs (light-emitting diodes) light to indicate the digital input jack selected with the input selector switch (). The sound of the main unit is selected when all the LEDs are off.
- 11 Phase Inverter Switch (INVERT)**
 - Press this to invert the phase of the output signals from output jacks () and ().
 - The LED light-emitting diodes light when the inverted output mode is selected.
- 12 Headphones Jack (PHONES)**
 - Use this jack to plug in headphones (headphones are sold separately).

- 13 Volume Adjust Jack (LINE OUT/PHONES)**
 - Use this to adjust the output level (before) of the headphones or the line out (VARIABLE) output level.
 - The operation is also possible using the included remote control UNIT. (Refer to Page 17.)
- 14 Output Terminal (FIXED and VARIABLE)**
 - Connect these to the amplifier's input jacks. (Refer to page 8.)
- 15 Digital Output Jack (OPTICAL)**
 - Digital data is output in optical form from this jack.
 - Connect your nearest Desktop Computer Center or office for information on the optical fiber cable to be used for connection.
- 16 Digital Output Jack (COAXIAL)**
 - The jack outputs digital data.
 - We recommend using a 75-ohm pin cord (available in stores) for connections.
- 17 Digital Input Jack (OPTICAL)**
 - Digital data is input from this jack.
- 18 Digital Input Jack (COAXIAL)**
 - Digital data is input to this jack.
- 19 Analog Output Jacks (BALANCED) (Cannon XLR-3-32 type)**
 - Use these jacks for connection to the amplifier's balanced input jacks (600 Ohm; input impedance).

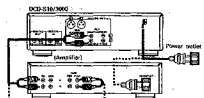
Continuous Operation
If the automatic search reverse button (), the automatic search forward button (), are held in, the function of that button will be repeated.

AC INPUT terminal (Multi-Voltage model only)
Connect the included AC Power cord to this terminal.

CONNECTION

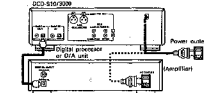
(1) Connections to the Output Jacks (FIXED and VARIABLE)

Using the included pin cords, connect the left (L) and right (R) output jacks (FIXED and VARIABLE) on the DCD-S103000 to the left (L) and right (R) CD, AUX, or TAPE PLAY input jacks on an amplifier. There are two types of output jacks. The input is variable for the VARIABLE jacks, and fixed for the FIXED jacks. If you want to be able to control the output level on the DCD-S103000, use the VARIABLE jacks.



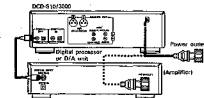
(2) Connections to the Digital Optical Output Jack (DIPITAL)

Use an optical fiber cable to connect the digital optical output jack on the DCD-S103000 to the optical input jack on a digital processor or D/A unit.



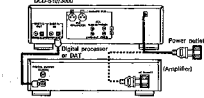
(3) Connections to the Digital Input Jack (DIPITAL)

Use a 75 Ω (ohm) pin cord to connect the digital input jack (DIPITAL) of the DCD-S103000 to the digital input jack (DIPITAL) of a digital processor or D/A unit, available in stores.



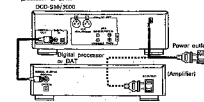
(4) Connections to the Digital Input Jack (OPTICAL)

Use an optical fiber cable to connect the digital optical input jack on the DCD-S103000 to the optical output jack on a digital processor or D/A unit.



(5) Connections to the Digital Input Jack (COAXIAL)

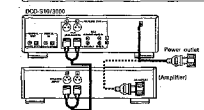
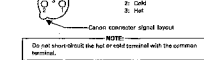
Use a 75 Ω (ohm) pin cord to connect the digital input jack (COAXIAL) of the DCD-S103000 to the digital output jack (COAXIAL) of a digital processor or D/A unit.



(6) Connections to the Analog Output Jack (BALANCE)

Connect as shown on the diagram using a Canon connector (SLR type) cord, available in stores.

• Canon connector signal layout



Connection Precautions

- Before proceeding with connections or disconnections of cables and power cords, be sure to turn all systems completely off.
- Ensure that all cables are connected properly to the L (left) and R (right) jacks.
- Insert plugs fully into the terminals.
- Connect the output jacks to the amplifier CD, AUX or TAPE PLAY input jacks.

OPENING AND CLOSING THE DISC HOLDER AND LOADING A DISC

Opening and closing the disc holder (This operation only works while the power is on.)

1. Press the power switch (POWER) to turn on the power.
2. Press the operation button 1 (OPEN/CLOSE).

How to load a disc

- Make sure the disc holder is completely open.
- Hold the disc by the edges and place it on the disc tray. (Do not touch the signal surface, i.e. the shiny side.)
- When using 12 cm diameter discs, make sure the outer edge matches the tray guide (see Figure 1), and when using CD singles (8 cm diameter) match the outer edge with the lower tray guide (see Figure 2).
- Press the open/close button 1 (OPEN/CLOSE) to close the disc holder.
- When the disc holder is closed, the disc is read and after a few seconds the number of tracks and total playing time are displayed on the TRACK NO. and TIME displays, respectively.
- When the disc holder is open and a disc is held, you may also press the play (PLAY) button to show the disc holder. If the play button (PLAY) is pressed, playback will start immediately upon the disc contents having been read.

Fig. 1 Tray guide for 12 cm disc



Fig. 2



Caution

- If your finger should get caught in the disc holder when it closes, press the open/close button 1 (OPEN/CLOSE).
- Do not place any foreign objects on the disc tray, and do not place more than one disc on the tray at a time. Otherwise malfunction may occur.
- Do not push in the disc tray forcefully when the power is off as this may cause malfunction and damage the CD player.

NORMAL CD PLAYBACK

(1) Starting Playback



1. Turn the power switch on and load the disc.
2. Press the play button (PLAY).
- The number of the track currently playing, the index number, and the elapsed time, etc., are displayed.

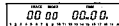
(2) Stopping Playback



1. Press the stop button (STOP).
- The stop mode is set automatically once all tracks on the disc are played.

NOTE:

- If no disc is loaded or if the disc is loaded upside-down, the track numbers, index, and time displays will all read zero, and the error indicator will light.



- If the information on the non-readable side of the disc cannot be read properly due to dirt or scratches, the display will be as shown below, and the number of tracks and remaining time per track will not be displayed. Also, the search operation may take longer than usual.



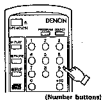
When data cannot be read properly



ADVANCED CD PLAYBACK

1. Playing a Specific Track

Direct Search
(Remote control only)



(Number buttons)

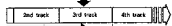
- Use the number buttons and the +10 button to input the number of the desired track. For example, to play the fourth track press **[4]**, and to after the 13th track press **[3]**, **[3]**, and **[0]**. The beginning of the track is found and playback starts.

2. Moving to Following Tracks

Automatic Search



Press the automatic search forward button **[FF]**.



- Press the automatic search forward button **[FF]**.
- If the automatic search forward button **[FF]** is pressed again during the search operation, the pickup moves on to the next track, etc.

3. Returning to the Beginning of the Current Track

Automatic Search



Press the automatic search reverse button **[RR]**.

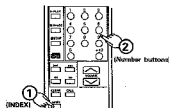


- Press the automatic search reverse button **[RR]**.
- If the automatic search reverse button **[RR]** is pressed again during the search operation, the pickup returns on to the previous track, etc.

4. Finding Sections Within a Track

Index Search
(Remote control only)

- Use this function to start playback from certain sections within a track divided by index numbers.



(INDEX)

(Number buttons)

- Press the **INDEX** button. "I" appears at the TRACK NO. display.
- Use the number buttons to specify the track number. "I" now appears at the INDEX display; input the desired index number. Playback starts at that time. For example, to start listening from index number 2 on track 3, press **INDEX**, **3** and **2**.

Indexes

- Indexes are numbers which are assigned to sections within a track. Check the disc's explanatory notes for the index numbers.
- If you make an index search for an index number that is not on the disc, playback will start from the last index number on the track.

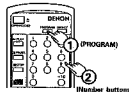
5. Playing Specific Tracks in a Specific Order

Programmed Play

- With this function, you can choose any of the tracks on the disc and program them to play in any order.
- Programming is possible with the disc holder open.
- Up to 20 tracks can be programmed.
- The programmed tracks are shown on the selector.

(1) Programming

(Remote control only)



(PROGRAM)

(Number buttons)

- The **PROGRAM** indicator lights when the program button **[PROGRAM]** is pressed. Next, use the number buttons and the +10 button to program the tracks.
- To program tracks 3, 12, and 7, for example, press **[PROGRAM]**, **[0]**, **[3]**, **[1]**, and **[0]**.

The track number lights on the selector each time a track is programmed. The number of tracks programmed is displayed at the track display, and the total playing time for the programmed tracks is indicated at the time display. After the tracks are programmed, the total number of programmed tracks is displayed at the track number display, and the total playing time for the programmed tracks is indicated at the time display.

(2) Overriding the Programmed Tracks

(Remote control only)



(CALL)

- Press the **CALL** button. The programmed tracks are displayed in order on the TRACK NO. display each time the **CALL** button is pressed.

(3) Playing the Programmed Tracks

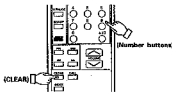


(PLAY)

- Press the **(PLAY)** button to play the tracks in the programmed order.

(4) Correcting Programs

(Remote control only)



(CLEAN)

(Number buttons)

- To correct a programmed track, first press the **CLEAN** button, then program the correct track.
- The last track programmed is replaced with the correct track.
- To alter a track in the middle of the program, use the **CALL** button to call out that track, then press the **CLEAN** button to clear it from the program.

(5) Clearing the Entire Program

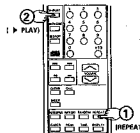
- Press the **DIRECT** button to clear the entire program. The entire program can also be cleared by pressing the **OPEN/CLOSE** button.
- If the **DIRECT** button is pressed during programmed playback, the program mode is direct and normal playback continues from that track on.

NOTE

- If the programming operation is performed in the play or pause mode, the correct track is programmed as the first track in the program. Other programs can be added, but the number of programmed tracks and playing time will not be displayed.
- Direct search is not possible during programmed playback. Pressing the number buttons adds tracks to the end of the program.
- Programming is not possible when the disc holder is open. A track number greater than the number of tracks on the disc can be set in the program, but it will automatically be cleared from the program before playback starts.
- The remaining time per track can only be displayed for the first 22 tracks on the disc.
- The total program time and remaining program time as well will not be displayed if tracks numbers greater than 20 are programmed.

6. Playing All Tracks Repeatedly

Repeat Playback
(Remote control only)

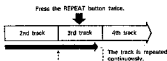
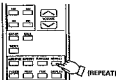


(▶ PLAY)

(REPEAT)

- Press the **REPEAT** button. The **REPEAT** indicator lights.
- The operation is the same whether button **[▶]** or **[▶]** is pressed first.
- The one-track-repeat mode is set if the **REPEAT** button is pressed again during repeat playback.
- The direct-repeat mode is set even if the **REPEAT** button is pressed during playback.
- To cancel the repeat mode, press the **REPEAT** button twice.
- If the **REPEAT** button is pressed during programmed playback, the tracks are repeated in the programmed order.

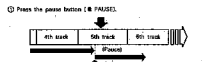
1 Playing a Single Track Repeatedly (Remote control only)



- Press this button when you hear a track you want to play repeatedly.
- Press the REPEAT button twice during playback. The REPEAT indicator lights, and if you are at least number 200 feet, that number appears on the calculator display and that track is played repeatedly.
- For track numbers 21 and above, the track number is not displayed on the calculator display but the one-track repeat mode will function.
- If the REPEAT button is pressed twice in the stop mode, track number 1 appears on the calculator display and one-track repeat is possible. Press the PLAY button to start playback.
- Press the REPEAT button once again to cancel the one-track repeat mode. The display and playback return to normal.

2 Stopping Instantly During Playback (Remote control only)

- Playback can be stopped momentarily but resumed from the same point.



- Press the play button (▶ PLAY) or the pause button (⏸ PAUSE). To resume playback, press either the play button (▶ PLAY) or the pause button (⏸ PAUSE).

3 Finding a Track While Listening at High Speed (Remote control only)

- You can skip through the disc while listening at high speed. This function comes in handy for finding a certain part in the middle of a long track and starting playback from there.
- Once you find the desired position using the manual search operation, release the manual search forward button (▶▶) or manual search reverse button (◀◀) to start normal playback.

(I) Manual Search Forward



Hold in the manual search forward button (▶▶)

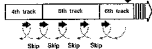


- During playback, press and hold in the manual search forward button (▶▶) to skip through the disc while listening at high speed.
- The number of the track being skipped through the index, number, and the elapsed time for that track are indicated on the display window.
- In the stop mode, the disc rotates at about three times the speed as during the play mode, but no sound is heard.
- When the end of the last track is reached while pressing the manual search forward button (▶▶), "2" appears on the display window and the manual search operation is stopped.
- To reverse playback, press the manual search reverse button (◀◀). To do another operation once the "2" disappears from the display.

(II) Manual Search Reverse



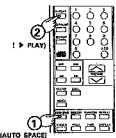
Hold in the manual search reverse button (◀◀)



- During playback, press and hold in the manual search reverse button (◀◀) to skip through the disc while listening at high speed.
- The display is the same as during the manual search forward operation.
- In the stop mode, the disc rotates at about three times the speed as during the play mode, but no sound is heard.
- When the beginning of the first track is reached while pressing the manual search reverse button (◀◀), "1" appears on the display window and the manual search operation is stopped.
- To resume playback, press the manual search forward button (▶▶) to do another operation once the "1" disappears from the display.

(III) Inserting Blanks Between Tracks (Remote control only)

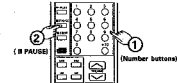
- This function inserts blank space between tracks, making editing easier.



- The AUTO SPACE indicator lights when the auto space button is pressed.
- Press the play button (▶ PLAY) to start playback. When the end of a track is reached, a blank space of approximately 4 seconds is inserted before the beginning of the next track.
- Press the auto space button again to turn the auto space function off.

(IV) Pausing At the Beginning of a Track After Searching (Remote control only)

- Direct Search
- Pressing at the beginning of a track found with the direct search operation comes in handy for searching tracks.



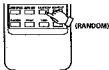
- Use the number buttons to set the desired track.
- Press the power button (⏹ PAUSE).
- To start playback, press either the play button (▶ PLAY) or the pause button (⏸ PAUSE).

(V) Program Search (Remote control only)

- Press the power button (⏹ PAUSE) after programming tracks. The beginning of the first track in the program is found and the disc is played there.

(VI) Playing Tracks in Random Order (Remote control only)

- All of the tracks recorded on the disc can be played once in random order.



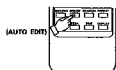
- When the random button (RANDOM) is pressed, the RANDOM indicator lights and random playback starts automatically.
- If the random button (RANDOM) is pressed when tracks are programmed, only the programmed tracks are played in random.
- If the random button (RANDOM) is pressed when the repeat function is set, all tracks will be played through once in random order. After which all tracks will be played through again in different order, and so on.
- During the search operation, the track numbers from the disc to the last track on the disc are displayed in rapid succession on the track number display, so you cannot tell what track is going to be played next until playback begins.

NOTE:

- The total remaining time is not displayed during the random mode.
- The auto edit mode is cancelled if the random button (RANDOM) is pressed during the random mode.

(VII) Edit Recording on Side A and End of the Tape (Edit function)

- Auto Edit Function (AUTO EDIT) (Remote control only)
- The auto edit function automatically divides the track on the compact disc into sides A and B, with the duration of the beginning of a track in each as the disc's total playing time is divided as close as possible by one half.



- When the AUTO EDIT button is pressed in the stop condition, the total play time of side A (the first half) and the track numbers for the program are displayed for about 5 seconds. Then, the side B total time information is similarly displayed after which the player automatically pauses at the beginning of the first track of side A. EDIT and PROGRAM will be lit on the display at this time.
- Pressing the play button (▶ PLAY) or the pause button (⏸ PAUSE) will start the play mode. When side A has finished playing, the player will pause at the beginning of the first track on side B.
- Pressing the play button (▶ PLAY) or the power button (⏹ PAUSE) again will start the play mode. When side B has finished playing, the player automatically stops.

① Fading Out or Fading In at the

Desired Location: **Fade Function**
(Manual control only)

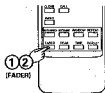
(1) Fading out and fading in is possible at the desired position during play.

Manual Fade
(Manual control only)

② Fade In

When the fade button (FADE IN) is pressed during play, fade out will be automatically for about 8 seconds. FAD will light up during the operation and 1 sec. will flash. When fade out is completed the player will automatically pause.

(2) Fade In
When the fade button (FADE IN) is pressed from the pause mode, the player will start playing and fade in will be possible for about 8 seconds. FAD will light up during the operation and (FAD IN) will flash.



(3) Set the Fade Out Time to Advance (TIME FADE)

(Remote control only)

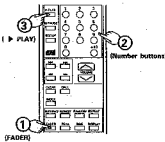
(3) When the fade button (FADE IN) is pressed in the stop mode, the FADE indicator (FAD) will light up. TIME will appear as -M-5, and the player will wait for the input of the fade out time.

(4) Input the fade out time with the 0-9 numeric buttons.

(5) Pressing the play button (▶ PLAY) will start the play time and the FADE indicator (FAD) will light up.

(6) The (▶) indication will start flashing 3 seconds before the specified fade out time and then the fade out will begin. The fade out will end at the specified time and the player will automatically pause.

The time fade function will be cancelled if an auto search or manual search is performed during playback.



(4) To Search for the Peak Level

Peak Search
(Remote control only)

(4) The player searches for the peak position and plays a few seconds either side of the point repeatedly. This is convenient for making recording adjustments on the tape recorder.



(5) When the peak search button (PEAK) is pressed in the stop mode, the PEAK indicator will flash and the player will search for the portion having the peak level.

(6) After the search, the PEAK indicator lights up and a few seconds either side of the peak level point are played back repeatedly. This is convenient for making recording adjustments on the tape recorder.

(7) To cancel the peak search, press the stop (■ STOP) button.

(8) When the play button (▶ PLAY) or the pause button (⏸ PAUSE) is pressed during peak search, or while playing the peak portion back repeatedly, the player will go to the beginning of the first track the first track of the program for program advance, or the track that was first indicated in the time advance and begin playback from there if the play button was pressed or enter the pause mode if the pause button was pressed.

NOTE:

• The peak search function reads the level of the disc from the beginning of the disc to the end at a fixed interval and regards the maximum value that was read as the peak.

• Peak search takes a little time for disc search.

• The peak portion may change each time the disc is read and there may be a slight difference in the actual peak level, but also this difference will be slight and there will be no adverse effects on the adjustment of the recording level.

• The time fade function is cancelled when the peak search operation is performed. To use the time fade function, set to the stop mode then reset the function.

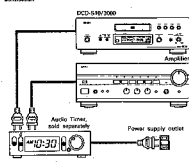
• Besides other than the operation button (▶ PLAY), (⏸ PAUSE), (■ STOP) button will use function during peak search or repeat play of the peak portion.

TIMER-CONTROLLED PLAYBACK

■ Operation

1. Turn on the power of all system components.
2. Set the input selector on the amplifier to correspond to the inputs the CD player is connected to.
3. Make sure a disc has been loaded in the disc holder.
4. Check the time on the timer and then set the desired turn-on time.
5. Turn the audio driver ON.
6. Power is turned off automatically in all components connected to the timer.
7. When the preset turn-on time is reached, power is turned on in the system components, and CD playback starts from the first track.

■ Connection



INSTALLATION PRECAUTIONS

The CD player uses a microprocessor for controlling internal electronic circuits. In the event that the interference is caused by a laser or TV is turned on, although optimum interference could occur either in the sound from the laser or the picture of the TV. To avoid this, please take the following precautions:

- Keep the CD player as far away from the laser or TV as possible.
- Keep the power cable and connecting cable of the CD player separate from the antenna wires of the laser and TV.
- Interference is particularly likely to occur when an indoor antenna or a 300 Ω twin feeder cable is used. Thus, use of an outdoor antenna and 75 Ω twin coaxial cable is strongly recommended.

TROUBLESHOOTING

If the CD player does not seem to be functioning properly, check the following:

- Disc holder does not open or close.
 - Is the power on?
 - Is the disc inserted correctly?
- When a disc is loaded, **CHANGES** is displayed.
 - Is the disc loaded properly? See page 9
 - Is the disc dirty or scratched? See page 10
 - Is the disc dirty or scratched? See page 10
- There is no sound, or it is fluctuating.
 - Is the output level properly connected to the amplifier? See page 6
 - Have the amplifier controls been set correctly? See page 6
- Volume is low.
 - Is volume setting level volume buttons on remote control set correctly? See page 17

THE COMPACT DISC

1. Precautions on handling compact discs

- Do not allow fingerprints, oil or dust on the surface of the compact disc. If the signal surface is dirty, wipe it off with a soft, dry cloth. Wipe in circular motions from the center out.
- Do not use water, benzene, thinner, record sprays, electrostatic proof chemicals, or alcohol-treated cloths to clean discs.
- Always use care when handling discs to prevent damaging the surface, in particular when removing a disc from the case and returning it.
- Do not bend compact discs.
- Do not apply heat to compact discs.
- Do not damage the hole in the center of the disc.
- Do not write on the disc and do not scratch any labels.
- Condensation will form on the disc surface if it is brought into a warm room from a cold area, such as outdoors during winter. Wait until the condensation disappears. Never dry discs with hair-dryers, etc.

2. Precautions on storage

- After playing a disc, always return it to its case.
- Keep discs in the case when they are not to be played. This will protect them from dust and dirt and prolong their service life.
- Do not store discs in the following places:
 - 1) Places exposed to direct sunlight for a considerable time.
 - 2) Places subject to accumulation of dust or high humidity.
 - 3) Places exposed to high temperatures, such as close to heating outlets.



300 Ohm feeder cable 75 Ohm coaxial cable

A specific section of the disc will not play.

• Is the disc dirty or scratched? See page 10

Programmed playback does not work.

• Have programming been properly done? See pages 10, 11 and 17

Incorrect operation when buttons on the remote control are pressed.

• Is the remote control lock being operated? See page 16

• Is the remote control lock being operated? See page 16

• Are there obstructions blocking the ray? See page 16

• Is the remote control sensor exposed to strong light? See page 16

• Are the batteries exhausted? See page 16

PLAYBACK USING THE REMOTE CONTROL UNIT

The necessary RC-253/RC-252 remote control unit can be used to control the CD player from a convenient distance.

(1) Inserting the dry cell batteries

- Remove the battery cover on the back of the remote control unit.



- Insert two R6P (standard size AA) dry cell batteries with correct polarity as indicated inside the battery compartment.



- Replace the battery cover.

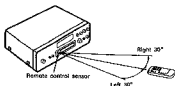


Notes on the Batteries

- The remote control unit uses standard size AA dry cell batteries.
- The batteries will need to be replaced approximately once a year. Replacement may be necessary earlier depending on how much the remote control unit is used.
- If, in less than a year from the time new batteries were inserted, the remote control fails to operate the CD player from a near-by position, it is time to replace the batteries.
- Insert the batteries properly, following the polarity diagram inside the battery compartment. In other words make sure (+) and (-) terminals are properly aligned.
- Batteries are prone to damage and bulging. Therefore:
 - Do not combine new batteries with used ones.
 - Do not combine different types of batteries.
 - Do not jamper opposite poles of the batteries, even when to be used.
 - Break them open not against of them to open fire.
- If the remote control unit is not to be used for a long period of time, remove the batteries from the unit.
- If the batteries have leaked, remove any traces of battery fluid from the battery compartment, wiping thoroughly with a dry cloth. Then insert new batteries.

(2) Directions for Use

- Consult the remote control unit while pointing it towards the remote control sensor on the CD player face below.



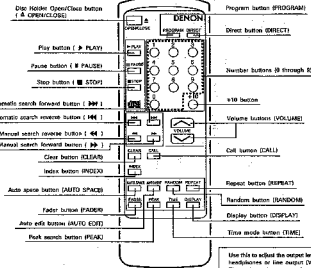
When a remote control signal is received, the remote control indicator on front of the CD player lights briefly.

- The remote control unit can be used at a distance up to 3 meters in a straight line from the CD player. This distance decreases if there are obstructions blocking the signal path or when the remote control unit is operated at an angle from the remote control sensor.
- The buttons on the remote control unit have identical functions with those on the CD player.
- However, the following functions cannot be remote controlled: Power ON/OFF.

Caution as Use

- Do not press the operation buttons on the main unit and on the remote control unit simultaneously, as this will result in malfunction.
- The remote control unit may not operate properly if the remote control sensor is exposed to direct sunlight or strong artificial lighting, or if there is an object between the remote control unit and the remote control sensor.

REMOTE CONTROL UNIT RC-253/RC-252



Setting to the Program Mode

- For program search, press the PROGRAM button more than the number buttons (0 through 9 and -10).
- The remote control unit is normally set to the direct mode.

Program button (PROGRAM)
Direct button (DIRECT)
Number buttons (0 through 9)
VIB button
Volume button (VOLUME)
Call button (CALL)
Repeat button (REPEAT)
Random button (RANDOM)
Display button (DISPLAY)
Time mode button (TIME)

Use this to adjust the output level (VOLUME) of the headphones or line output (VARIABLE).
The volume increases when the +1 button is pressed, decreases when the -1 button is pressed.

Display Button (DISPLAY)

- Press this button to change the brightness of the display.
- Press once to make the display 2/3 as bright as normal.
- Press again to make the display 1/3 as bright as normal.
- Press once again to turn the entire display off during playback and all but the track number off to any other mode.

Direct Search

Normally, direct search is possible simply by pressing the desired number button.

- Program Search (During playback, the track which is currently playing is programmed as the 1st track.)**
Press the PROGRAM button, then press the number buttons.
For example, to program tracks number 2, 11, and 5, press PROGRAM → 2 → 11 and 1 → 5.

To cancel the program, press the DIRECT button.

Inputting the Track Numbers

For track numbers below 9, simply press the corresponding button. For track numbers of 10 and greater, press the +10 then the number buttons.
For example, for track number 22 press +10 twice then 2.

Volume

The volume control on the unit will operate when the volume buttons are pressed. The volume can be checked by looking at the position of the control.

SPECIFICATIONS

AUDIO

| | |
|------------------------|--|
| No. of Channels: | 2 channels |
| Frequency Response: | 2 ~ 20,000 Hz |
| Dynamic Range: | 100 dB |
| Signal-to-noise Ratio: | 115 dB |
| Harmonic Distortion: | 0.0018% (1 kHz) |
| Separation: | 110 dB (1 kHz) |
| Wow & Flutter: | Below measurable limit: (±0.001% W, peak) |
| Output Voltage: | FIXED 2.0 V VARIABLE 0~2.0 V |
| DISCS | Compact Disc format |

GENERAL CHARACTERISTICS

| | |
|--------------------|--|
| Power Supply: | Voltage and frequency are shown on rating label. |
| Power Consumption: | 22 W |
| Dimensions: | 434 (W) x 135 (H) x 340 (D) mm (17-3/32" x 5-5/16" x 13-25/64") |
| Weight: | DCD-S10 10.0 kg (22 lbs 5oz) DCD-3000 8.0 kg (17 lbs 64oz) |

FUNCTIONS AND DISPLAY

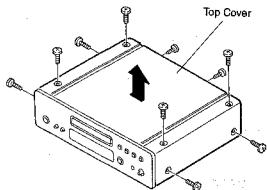
| | |
|------------------------|--|
| Functions: | Direct selection, automatic search, programmed playback, repeat playback, manual search, auto space, time mode, auto edit, index search, fader, peak search. |
| Display: | Track number, time, music calendar, and engaged modes |
| Others: | Headphones jack |
| REMOTE CONTROL UNIT | DCD-S10 RC-253 DCD-3000 RC-252 |
| Remote Control System: | Infrared pulse system |
| Power Supply: | 3 V DC; two R6P (standard size AA) dry cell batteries |
| External Dimensions: | 60 (W) x 177 (H) x 18 (D) mm (2-23/64" x 6-31/32" x 45/64") |
| Weight: | 120 g (26 oz) (including batteries) |

* Design and specifications are subject to change without notice in the course of product improvement.

DISASSEMBLY

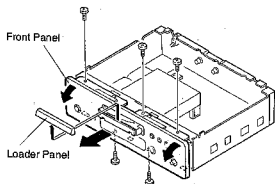
1. Top Cover

Remove 2 screws from rear side and 4 screws from both sides. Remove 4 upper screws and detach the Top Cover as show as arrow.



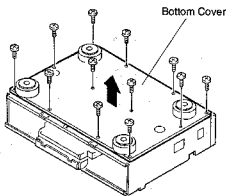
2. Front Panel

Pull out Loader Panel, remove 3 upper screws and 2 below screws, then detach the Front Panel as show as arrow.



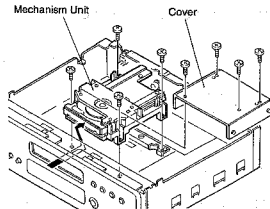
3. Bottom Cover

Remove 12 screws from bottom side, and detach Bottom Cover.



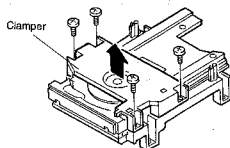
4. Mechanism Unit

Remove 4 screws and detach the Cover, then remove 4 screws and detach the Mechanism Unit as show as arrow.



5. Clamper

Remove 4 screws and detach the Clamper.



ADJUSTMENT

A microcomputer employed in this unit has a service program built-in so as to perform each servo confirmation easier with the operation buttons.

Also, the unit adopted with digital servo makes focus gain and tracking gain adjustments in automatic manner.

1. Actuating the Service Program

- Close the disc holder and turn OFF the power switch.
- Short-circuit Pin ⑥ of TP102(SWOP) and Pin ②(GND) of PWB(Main Unit).
Note: Do not touch the other pins.
- Turn ON the power switch.
(Service program actuates and the display shows TRACK No. 01)

(Caution)

- When service program actuates, the operation buttons will not function normal operation mode.
- Open the loader and load the adjustment disc.

2. Operational Function at a Time Service Program Actuation

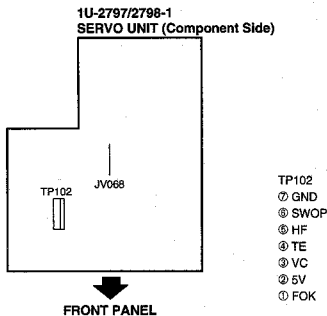
| Button Operation | Function | Description |
|------------------|--|--|
| ▲ OPEN/CLOSE | Opens/closes disc holder. | <ul style="list-style-type: none"> Open/close operation should be performed while disc fun is in stop. The other keys should be operated after open/close operation is finished. |
| ■ STOP | Stops system operation. | <ul style="list-style-type: none"> TRACK No. display becomes 01. Press it when adjustment is completed or attempting readjustment. |
| ▶ PLAY | Focus servo actuates and disc runs. | <ul style="list-style-type: none"> Press it for tracking adjustment. When completed action, TRACK No. display becomes 02. |
| ▶▶ | Actuates focus servo, tracking servo, slide servo and spindle servo. | <ul style="list-style-type: none"> When PLAY button is pressed, tracking servo and slide servo actuate. When completed action, TRACK No. display becomes 03. |
| EXT. INPUT | Displays a result of automatic focus gain adjustment. | <ul style="list-style-type: none"> After completed PAUSE button action, pressing Button 1 of 10-key indicates a result of automatic focus gain adjustment. After action is completed, Display shows: TRACK INDEX TIME 03 1- 11.111/15 TIME display shows the value of automatic adjustment Displays: 0 1:27₅ - 00:00₁₅ or EE:01₅ |
| ◀◀ | Displays a result of automatic tracking gain adjustment. | <ul style="list-style-type: none"> After completed PAUSE button action, pressing Button 2 of 10-key indicates a result of automatic tracking gain adjustment. After action is completed, Display shows: TRACK INDEX TIME 03 2- 11.111/15 TIME display shows the value of automatic adjustment. Displays: 0 1:27₅ - 00:00₁₅ or EE:02₅ |
| Other Buttons | Unable to obtain normal function. | <ul style="list-style-type: none"> Never attempt to operate the buttons other than the above. If the buttons are erroneously pressed, promptly turn OFF the power switch. |

(Caution)

- During the service program is in operation, do not use remote control.

3. Confirming Method

- (1) Required Measuring Equipment and Implement
- Dual-trace oscilloscope
 - Test disc: CA-1094 "Yasuko TOMITA" or CO-76143 "W.A. Mozart"
- (2) Check Point



Note: About the difference of test point between Analog Servo (DCD815, etc.) and Digital Servo (DCD-S10/3000).

| Analog Servo | | | Digital Servo |
|--------------|--------|---|---------------|
| TP101 | TP102 | | TP102 |
| ⑥ TEI | ⑤ 5V | | ⑦ GND |
| ⑤ VC | ⑤ NC | ➔ | ⑥ SWOP |
| ④ FOK | ④ SWOP | | ⑤ HF |
| ③ TEO | ③ SWCL | | ④ TE |
| ② FEI | ② GND | | ③ VC |
| ① FEO | ① HF | | ② 5V |
| | | | ① FOK |

As described above, test points of CD player have changed from this model (DCD-S10/3000), when replacement is required for pick-up according to the pick-up replacement standard, please use the test points as follows.

| Analog Servo | | Digital Servo |
|---------------------|---|---------------------|
| FOK (Pin4 of TP101) | ➔ | FOK (Pin1 of TP102) |
| FEO (Pin1 of TP101) | ➔ | FE (JV068) |
| TEO (Pin3 of TP101) | ➔ | TE (Pin4 of TP102) |
| HF (Pin1 of TP102) | ➔ | HF (Pin5 of TP102) |
| VC (Pin5 of TP101) | ➔ | VC (Pin3 of TP102) |

(3) Confirming Procedure

- Actuate the service program.
- Check the value of automatic focus gain adjustment.
- Check the value of automatic tracking gain adjustment.
- Check for tracking offset.
- Execute the service program and return the mode to normal operation (turn ON the power switch in normal manner).
- Check for HF level.

(4) Confirming Focus Gain

Confirm the following items.

- Press **▶▶** button. (TRACK No. indication **03**)
- Press **EXT. INPUT** button. (INDEX No. indication **1-**)
- Check for automatic adjustment value.
Automatic adjustment value: 01M27S ~ 00M81S (Test disc: CA-1094)
01M27S ~ 00M77S (Test disc: CO-76143)

Note: As there may have a possibility of abnormality in pick-up when adjustment value is less than EE_M01S or 00M80S (CA-1094), 00M76S (CO-76143), execute the confirmation for pick-up according to pick-up replacement standard.

If there is no abnormality in pick-up as described in pick-up replacement standard notes, no problem will occur for disc playback even though the automatic adjustment value is less than EE_M01S or 00M80S (CA-1094), 00M76S (CO-76143).

(5) Confirming Tracking Gain

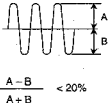
Confirm the following items.

- Press **▶▶** button. (TRACK No. indication **03**)
- Press **◀◀** button. (INDEX No. indication **2-**)
- Check for automatic adjustment value.
Automatic adjustment value: 01M27S ~ 00M35S (Test disc: CA-1094)
01M27S ~ 00M31S (Test disc: CO-76143)

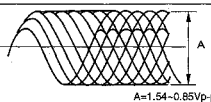

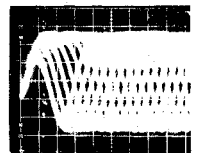
Note: As there may have a possibility of abnormality in pick-up when adjustment value is less than EE_M02S or 00M34S (CA-1094), 00M30S (CO-76143), execute the confirmation for pick-up according to pick-up replacement standard.

If there is no abnormality in pick-up as described in pick-up replacement standard notes, no problem will occur for disc playback even though the automatic adjustment value is less than EE_M01S or 00M34S (CA-1094), 00M30S (CO-76143).

(6) Tracking offset (E/F Balance)

| Oscilloscope | | | Check | Step |
|--------------|------------|--|--|------|
| V | H | (Oscilloscope) | | |
| 0.1V/div | 1-2 ms/div |  $\frac{A - B}{A + B} < 20\%$ | <ol style="list-style-type: none"> Push ▲ OPEN/CLOSE and load disc holder reference disk. Push ▲ OPEN/CLOSE and close disc holder. Push ▶ PLAY to turn disc. (Displays track number 02) Short (+)(-) of oscilloscope and check the base line. Confirm that upper and lower amplitude of the waveform is symmetric against 0V. | |

(7) HF level

| Oscilloscope | | Check | Step |
|--|------------------------------|---|--|
| Connection | | | |
| <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> 1U-2797/2798-1 Servo Unit TP102-Ⓞ (HF) ○ TP102-Ⓞ (VC) ○ </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Probe 10 : 1 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Oscilloscope ○ + ○ - </div> </div> | | | |
| V | H | (Oscilloscope) | |
| 50mV/div or 20mV/div | 0.2μs/div or 0.5μs/div |  | <ol style="list-style-type: none"> 1. Push  (Displays track number 03) 2. Check HF level of oscilloscope. 3. Confirm that the waveform is in good shape. (∅ pattern in center must be able to discriminate clearly.) |
| <ul style="list-style-type: none"> • Set input mode to ALTERNATE or CHOPPER. | |  | |

HEAT RUN MODE FUNCTION

Heat Run Mode

(1) To activate

While hold pushing PLAY and **⏮** keys simultaneously, turn the unit power on. The remote control sensor indicator will light to show that the unit is shifted in Heat Run mode.

Be sure to load the disc previously.

Press the disc holder open/close button (**⏏** OPEN/CLOSE) to cancel Heat Run mode.

★ This mode functions only for a disc with 21 pieces of music or more. For a disc with 20 pieces of music or lesser, please do not use.

(2) Operation

During the Heat Run mode to shift the unit in Play mode makes the unit replays from the first music after opens the loader once and re-closes it when finish playing the last track (comes into lead out).

Hereafter, operates open/close of loader, servo on, reading of TOC, and playing repeatedly, and repeats playing the two tracks; the first and the last ones.

(3) Error Message

When the system error occurs while in Heat Run mode, the following error message will display on the Track No. indicator and stops operation.

1. E1

At the time of Focus Servo does not activate.

2. E2

When unable to detect synchronous pattern however the disc is in rotating. (GFS does not drive.)

3. E3

No synchronous pattern can be detected while in Play mode. (No GFS drives.)

4. E4

When TOC is unreadable in despite of servo is activated.

5. E5

In case of loader malfunctions. (Unable to turn on the switch.)

6. E6

The inner circle switch of Pick-up does not turn off.

7. E7

The inner circle switch of Pick-up does not turn on.

★ The number of operation up to the stop will be displayed on the minute and second portion of the indicator.

JUDGMENT STANDARDS FOR OPTICAL PICK-UP REPLACEMENT

1. PICK-UP REPLACEMENT

The pick-up (PU) replacement must be executed on checking the following 4 items and found the abnormality in the PU. Also, refer to following pages.

(1) Judgment by confirming of Focus Search.

(Cause of PU abnormality: Focus search does not function from pick-up laser)

(2) Judgment by Changing of PU due to Focus Error Signal V_{FE} .

(Cause of PU abnormality: No proper emission of focus error signal (S-curve) V_{FE})

(3) Judgment by Changing of PU due to Tracking Error Signal V_{TE} .

(Cause of PU abnormality: No proper emission of tracking error signal (Traverse wave) V_{TE})

(4) Judgment by Changing of PU due to HF level V_{HF}

(Cause of PU abnormality: No proper emission of HF wave)

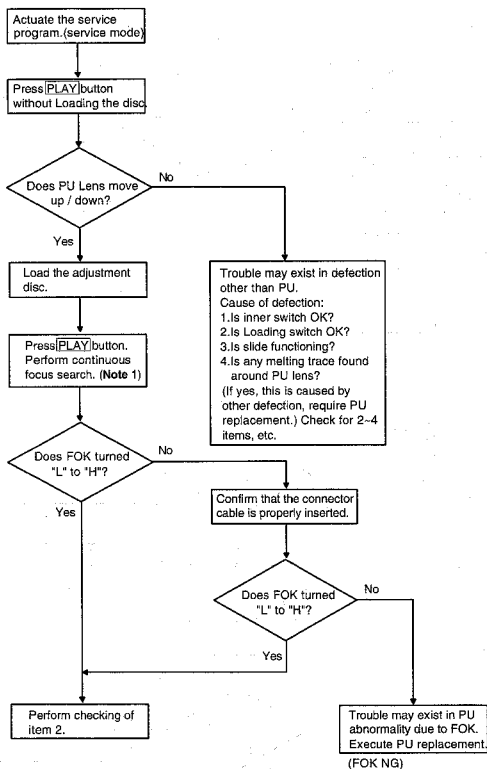
2. ABOUT USING DISK

Using Yasuko TOMITA disc (disc No. CA-1094) or w. A. Mozart (disc No. CO-76143)

3. PICK-UP REPLACEMENT OF OTHER CAUSE

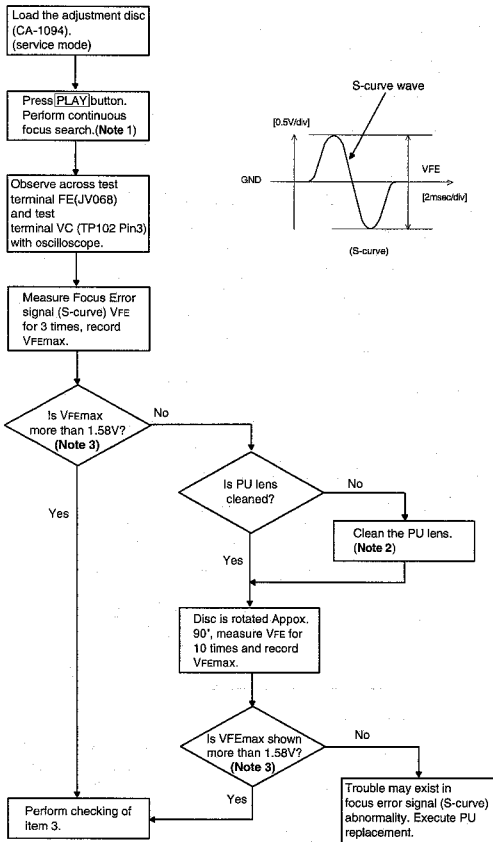
If it happens case of another PU change except for over checking items, please execute PU replacement.

1. Judgement by Confirming of Focus Search (Check for focus searching of PU Lens)



Note 1: Press [PLAY] button continuously in FOK measure.

2. Judgement by Changing of PU due to Focus Error signal (S-curve) VFE (check for proper S-curve)

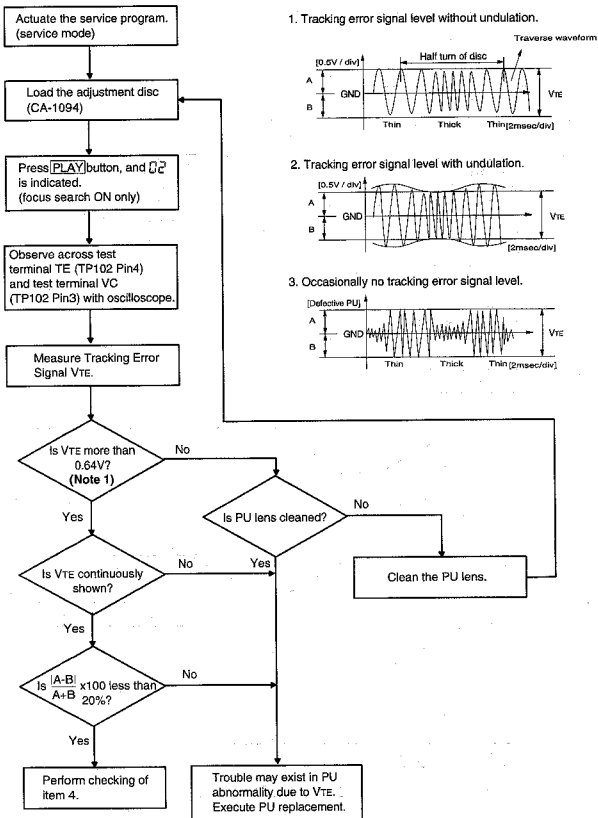


Note 1: Press [PLAY] button continuously in VFE measure.

Note 2: Clean the lens with-moistened cleaning paper without applying an excessive force to the lens.

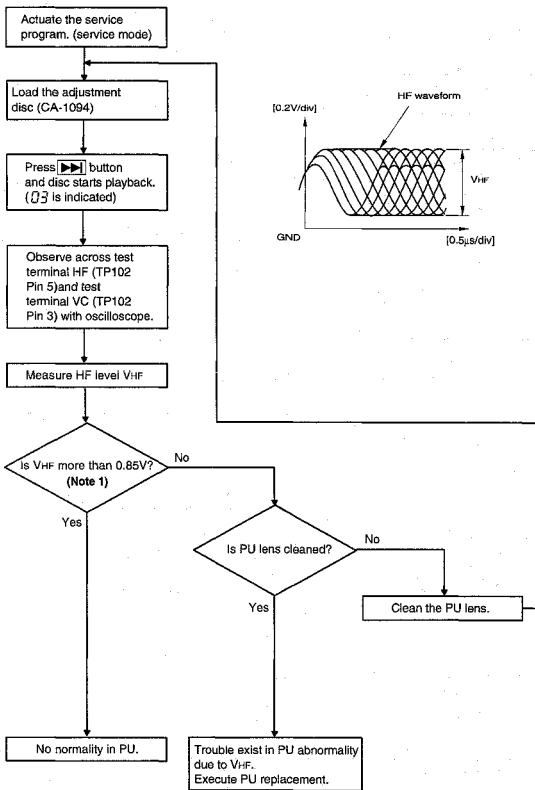
Note 3: When using the Test disc CO-76143 value are 1.67V.

3. Judgement by changing of PU due to Tracking Error Signal VTE (check for proper Traverse wave)



Note 1: When using the Test disc CO-76143 value are 0.70V.

4. Judgement by changing of PU due to HF level V_{HF} (check for proper HF wave)



Note 1: When using the Test disc CO-76143 value are 0.85V.

NOTE FOR PARTS LIST

- Part indicated with the mark * * are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate *1* and *1* (1) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark *★* is not illustrated in the exploded view.
- Not including Carbon Film $\pm 5\%$, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:

Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

| Ex: | RN | 14K | 2E | 182 | G | FR | Others |
|-----|------------------|-----------------------|-------|------------|-----------------|----|----------------------|
| | Type | Shape and performance | Power | Resistance | Allowable error | | |
| RD | Carbon | 2B | 1/6W | F | $\pm 1\%$ | P | Pulse-resistant type |
| RC | Composition | 2E | 1/4W | D | $\pm 2\%$ | NB | Low noise type |
| RS | Metal oxide film | 2H | 1/2W | J | $\pm 5\%$ | NB | Non-burning type |
| RW | Winding | 3A | 1W | K | $\pm 10\%$ | FR | Fuse-resistor |
| RI | Metal film | 3D | 2W | M | $\pm 20\%$ | F | Lead wire forming |
| RIK | Metal structure | 3F | 3W | | | | |
| | | 3H | 5W | | | | |

● Resistance

$1 \quad \underline{8} \quad \underline{2} \Rightarrow 1800 \text{ ohm} = 1.8 \text{ k}\Omega$
Indicates number of zeros after effective number.
2-digit effective number.

• Units: ohm

$1 \quad \underline{R} \quad \underline{2} \Rightarrow 1.2 \text{ ohm}$
1-digit effective number.
2-digit effective number, decimal point indicated by R.

• Units: ohm

● Capacitors

| Ex: | CE | D4W | 1H | 2R2 | M | BP | Others |
|-----|----------------------------|-------|----------------------------|----------|-----------------------|----|-----------------------------|
| | Type | Shape | Dielectric and performance | Capacity | Allowable error | | |
| CE | Aluminum foil electrolyte | 0J | 6.3V | F | $\pm 1\%$ | HG | High stability type |
| CA | Aluminum oxide electrolyte | 1A | 10V | G | $\pm 2\%$ | BP | Non-polar type |
| CS | Tantalum electrolyte | 1C | 18V | J | $\pm 5\%$ | HR | Ripple-resistant type |
| OD | Film | 1E | 25V | K | $\pm 10\%$ | DL | For charge and discharge |
| OK | Ceramic | 1V | 35V | M | $\pm 20\%$ | HF | For assuring high frequency |
| OC | Ceramic | 1H | 50V | Z | $\pm 80\%$ | U | UL part |
| CP | Oil | 2A | 100V | | -30% | C | CBA part |
| CM | Misc. | 3B | 125V | P | $\pm 100\%$ | W | UL-CBA type |
| CF | Metallized | 2C | 180V | | -0% | F | Lead wire forming |
| CH | Metallized | 2D | 200V | D | $\pm 0.25\mu\text{F}$ | | |
| | | 2E | 250V | O | $\pm 0.5\mu\text{F}$ | | |
| | | 2H | 500V | A | Others | | |
| | | 2J | 630V | | | | |

● Capacity (electrolyte only)

$2 \quad \underline{2} \quad \underline{2} \Rightarrow 2200\mu\text{F}$
Indicates number of zeros after effective number.
2-digit effective number.

• Units: μF

$2 \quad \underline{R} \quad \underline{2} \Rightarrow 2.2\mu\text{F}$
1-digit effective number.
2-digit effective number, decimal point indicated by R.

• Units: μF

● Capacity (except electrolyte)

$2 \quad \underline{2} \quad \underline{2} \Rightarrow 2200\text{pF} = 0.0022\mu\text{F}$
(More than 2) — Indicates number of zeros after effective number.
2-digit effective number.

• Units: μF

$2 \quad \underline{2} \quad \underline{1} \Rightarrow 220\text{pF}$
(0 or 1) — Indicates number of zeros after effective number.
2-digit effective number.

• Units: μF

• When the dielectric strength is indicated in AC, "AC" is included after the dielectric strength value.

PARTS LIST OF P. W. BOARD

1U-2798 DIGITAL SERVO UNIT

(1U-2798: DCD-3000, DCD-S10 Europe Model)

(1U-2798D: DCD-3000, DCD-S10, U.S.A. & Canada Models)

(1U-2798B: DCD-3000 Multi-Voltage model)

| Ref. No. | Part No. | Part Name | Remarks | Ref. No. | Part No. | Part Name | Remarks |
|---|--------------|--------------------------------------|-------------------|----------|--------------|--|--------------------|
| SEMICONDUCTORS GROUP | | | | | | | |
| IC101 | 262 1879 003 | IC CXD2515Q | | R118 | 247 0009 901 | Chip Resistor 4.7k Ω hm 1/10W | RM73B-472J |
| IC102 | 263 0909 906 | IC BA6392FP | | R120 | 247 0009 901 | Chip Resistor 4.7k Ω hm 1/10W | RM73B-472J |
| IC103 | 263 0565 007 | IC BA15218 | | R121 | 247 0011 944 | Chip Resistor 47k Ω hm 1/10W | RM73B-473J |
| IC104 | 262 0910 002 | IC YM3623B | | R122 | 247 0009 956 | Chip Resistor 7.5k Ω hm 1/10W | RM73B-752J |
| IC105 | 263 0565 007 | IC BA15218 | | R123 | 247 0008 999 | Chip Resistor 4.3k Ω hm 1/10W | RM73B-432J |
| IC110,111 | 262 1641 901 | IC HD74HC157FP | | R124 | 247 0005 989 | Chip Resistor 220k Ω hm 1/10W | RM73B-221J |
| IC201 | 262 2111 003 | IC M38173M6-292FP | | R126 | 247 0018 906 | Chip Resistor 0 Ω hm 1/10W | RM73B-0R0K |
| IC202 | 262 1265 002 | IC TC74HCU04P | | R127 | 247 0018 906 | Chip Resistor 0 Ω hm 1/10W | RM73B-0R0K |
| IC300 | 262 1869 000 | IC SM5845AF | | R128 | 247 0008 960 | Chip Resistor 3.3k Ω hm 1/10W | RM73B-332J |
| IC350 | 263 0615 902 | IC BA15218F | | R129 | 247 0007 974 | Chip Resistor 1.3k Ω hm 1/10W | RM73B-132J |
| IC400 | 263 0516 001 | IC NJM7812FA | Regulator +12V | R130 | 247 0014 967 | Chip Resistor 1M Ω hm 1/10W | RM73B-105J |
| IC401 | 263 0539 004 | IC NJM79M12FA | Regulator -12V | R131 | 247 0012 927 | Chip Resistor 100k Ω hm 1/10W | RM73B-104J |
| IC402 | 263 0793 002 | IC NJM7805FA(S) | Regulator +5V | R132 | 247 0009 998 | Chip Resistor 11k Ω hm 1/10W | RM73B-113J |
| IC403 | 263 0809 006 | IC NJM7805FA(S) | Regulator +5V | R133 | 247 0008 960 | Chip Resistor 3.3k Ω hm 1/10W | RM73B-332J |
| IC406,407 | 268 0074 904 | IC Protector ICP-N20 | | R135 | 247 0008 960 | Chip Resistor 3.3k Ω hm 1/10W | RM73B-332J |
| IC409 | 263 0652 907 | IC PST529C | | R136 | 247 0007 945 | Chip Resistor 1k Ω hm 1/10W | RM73B-102J |
| TR101 | 274 0036 905 | Transistor 2SD468(C) | | R138 | 247 0008 998 | Chip Resistor 11k Ω hm 1/10W | RM73B-113J |
| TR102 | 272 0025 907 | Transistor 2SB562(C) | | R144,145 | 247 0012 943 | Chip Resistor 120k Ω hm 1/10W | RM73B-124J |
| TR103 | 269 0026 900 | Transistor RN2202(10K-10K) | Built in Resistor | R146 | 247 0005 989 | Chip Resistor 220k Ω hm 1/10W | RM73B-221J |
| TR111 | 274 0036 905 | Transistor 2SD468(C) | | R147 | 247 0010 929 | Chip Resistor 13k Ω hm 1/10W | RM73B-153J |
| TR112 | 272 0025 907 | Transistor 2SB562(C) | | R148 | 247 0010 916 | Chip Resistor 13k Ω hm 1/10W | RM73B-133J |
| TR119 | 272 0025 907 | Transistor 2SB562(C) | | R149 | 244 2051 949 | Metal oxide film 1 ohm 10W (Non-sounding type) | RS1483A100R10B5(S) |
| TR120 | 274 0036 905 | Transistor 2SD468(C) | | R151 | 247 0009 956 | Chip Resistor 7.5k Ω hm 1/10W | RM73B-752J |
| TR350 | 273 0303 910 | Transistor 2SC1740S(S) | | R161 | 247 0012 985 | Chip Resistor 180k Ω hm 1/10W | RM73B-184J |
| TR401 | 272 0025 907 | Transistor 2SB562(C) | | R162 | 247 0011 999 | Chip Resistor 75k Ω hm 1/10W | RM73B-753J |
| TR402,403 | 269 0025 901 | Transistor RN1202(10K-10K) | Built in Resistor | R182 | 247 0003 949 | Chip Resistor 220hm 1/10W | RM73B-220J |
| D101,102 | 276 0432 903 | Diode 1S2270A | | R202 | 247 0007 945 | Chip Resistor 1k Ω hm 1/10W | RM73B-102J |
| D107 | 276 0432 903 | Diode 1S2270A | | R206,207 | 247 0007 945 | Chip Resistor 1k Ω hm 1/10W | RM73B-102J |
| D203 | 276 0432 903 | Diode 1S2270A | | R209 | 247 0004 977 | Chip Resistor 75ohm 1/10W | RM73B-750J |
| D402,403 | 276 0553 905 | Diode 1SR35-200A | | R214,215 | 247 0012 943 | Chip Resistor 120k Ω hm 1/10W | RM73B-124J |
| D404 | 276 0466 908 | Zener Diode HZ57C-1 | 7V | R216 | 247 0012 927 | Chip Resistor 100k Ω hm 1/10W | RM73B-104J |
| D405 | 276 0484 906 | Zener Diode HZ533-1 | 33V | R217 | 247 0005 989 | Chip Resistor 220ohm 1/10W | RM73B-221J |
| D410-417 | 276 0553 905 | Diode 1SR35-200A | | R218 | 247 0004 922 | Chip Resistor 470hm 1/10W | RM73B-470J |
| RESISTORS GROUP (Not Included Carbon Film $\pm 5\%$ 1/4W) | | | | | | | |
| R001,002 | 247 0018 905 | Chip Resistor 0 Ω hm 1/10W | RM73B-0R0K | R219 | 247 0012 927 | Chip Resistor 100k Ω hm 1/10W | RM73B-104J |
| R003,004 | 247 0009 914 | Chip Resistor 5.1k Ω hm 1/10W | RM73B-512J | R225 | 247 0004 977 | Chip Resistor 75ohm 1/10W | RM73B-750J |
| R005,006 | 247 0018 905 | Chip Resistor 0 Ω hm 1/10W | RM73B-0R0K | R300-302 | 247 0007 945 | Chip Resistor 1k Ω hm 1/10W | RM73B-102J |
| R007 | 247 0009 914 | Chip Resistor 5.1k Ω hm 1/10W | RM73B-512J | R350-355 | 247 0008 985 | Chip Resistor 10k Ω hm 1/10W | RM73B-103J |
| R101-103 | 247 0009 985 | Chip Resistor 10k Ω hm 1/10W | RM73B-103J | R356 | 244 2043 937 | Metal oxide film 10 ohm 10W (Non-sounding type) | RS1483A100R10B5(S) |
| R109 | 247 0011 902 | Chip Resistor 33k Ω hm 1/10W | RM73B-333J | R357 | 247 0008 915 | Chip Resistor 2k Ω hm 1/10W | RM73B-202J |
| R114 | 247 0005 976 | Chip Resistor 200ohm 1/10W | RM73B-201J | R358 | 247 0013 984 | Chip Resistor 470k Ω hm 1/10W | RM73B-474J |
| R115 | 247 0003 949 | Chip Resistor 22ohm 1/10W | RM73B-220J | R359 | 247 0009 956 | Chip Resistor 7.5k Ω hm 1/10W | RM73B-752J |
| R116 | 247 0012 956 | Chip Resistor 130k Ω hm 1/10W | RM73B-134J | R360 | 247 0009 985 | Chip Resistor 10k Ω hm 1/10W | RM73B-103J |
| | | | | R361 | 247 0010 987 | Chip Resistor 27k Ω hm 1/10W | RM73B-273J |
| | | | | R362 | 247 0014 967 | Chip Resistor 1M Ω hm 1/10W | RM73B-105J |
| | | | | R363 | 247 0013 913 | Chip Resistor 240k Ω hm 1/10W | RM73B-244J |
| | | | | R365-368 | 247 0014 967 | Chip Resistor 1M Ω hm 1/10W | RM73B-105J |

| Ref. No. | Part No. | Part Name | Remarks | Ref. No. | Part No. | Part Name | Remarks |
|-------------------------|--------------|----------------------------------|------------------|--------------------|--------------|----------------------------------|--------------------|
| R406 | 247 0009 965 | Chip Resistor 10kohm 1/10W | RM73B-103J | C405 | 257 0014 935 | Ceramic(Chip) 0.1 μ F/25V | CK73F1E104Z |
| R407 | 247 0014 967 | Chip Resistor 1Mohm 1/10W | RM73B-105J | C405,407 | 254 4319 792 | Electrolytic 4700 μ F/25V | CE04W1E472MC(ASF) |
| R409 | 247 0005 989 | Chip Resistor 220ohm 1/10W | RM73B-221J | C409 | 254 4367 906 | Electrolytic 47 μ F/63V | CE04W1J470M(ASF) |
| R411 | 247 0006 962 | Chip Resistor 470ohm 1/10W | RM73B-471J | C413,414 | 254 4313 989 | Electrolytic 33 μ F/50V | CE04W1H330M(ASF) |
| R412 | 247 0009 914 | Chip Resistor 5.1kohm 1/10W | RM73B-512J | C416 | 257 0003 988 | Ceramic(Chip) 47pF/50V | CC73L1H470J |
| R413 | 247 0006 962 | Chip Resistor 470ohm 1/10W | RM73B-471J | C423 | 257 0014 935 | Ceramic(Chip) 0.1 μ F/25V | CK73F1E104Z |
| R415 | 247 0014 967 | Chip Resistor 1Mohm 1/10W | RM73B-105J | C424 | 257 0009 966 | Ceramic(Chip) 0.0047 μ F/50V | CK73B1H472K |
| R416 | 247 0007 945 | Chip Resistor 1kohm 1/10W | RM73B-102J | C425,426 | 257 0002 921 | Ceramic(Chip) 10pF/50V | CC73L1H100D |
| R420 | 247 0009 965 | Chip Resistor 10kohm 1/10W | RM73B-103J | C427 | 256 1035 091 | Ceramic 1 μ F/50V | CF93A1H105J |
| R423,424 | 247 0009 965 | Chip Resistor 10kohm 1/10W | RM73B-103J | C440,441 | 257 0014 935 | Ceramic(Chip) 0.1 μ F/25V | CK73F1E104Z |
| R431 | 247 0009 965 | Chip Resistor 10kohm 1/10W | RM73B-103J | C442 | 257 0012 986 | Ceramic(Chip) 0.01 μ F/50V | CK73F1H103Z |
| R440,441 | 247 0009 965 | Chip Resistor 10kohm 1/10W | RM73B-103J | C443-448 | 257 0014 935 | Ceramic(Chip) 0.1 μ F/25V | CK73F1E104Z |
| R442 | 247 0012 927 | Chip Resistor 100kohm 1/10W | RM73B-104J | C463 | 257 0007 900 | Ceramic(Chip) 0.001 μ F/50V | CC73L1H102J |
| R443 | 247 0009 965 | Chip Resistor 10kohm 1/10W | RM73B-103J | C475,476 | 253 9039 906 | Ceramic 0.1 μ F/25V | CK45-1E104Z |
| R445 | 247 0007 945 | Chip Resistor 1kohm 1/10W | RM73B-102J | OTHER PARTS | | | |
| R460-463 | 247 0007 945 | Chip Resistor 1kohm 1/10W | RM73B-102J | X101 | 399 0165 007 | Crystal Resonator | (16.9344MHz) 1 |
| R483 | 247 0009 914 | Chip Resistor 5.1kohm 1/10W | RM73B-512J | X200 | 399 0165 007 | Crystal Resonator | (16.9344MHz) 1 |
| R484 | 247 0005 905 | Chip Resistor 100ohm 1/10W | RM73B-101J | PT300 | 231 8063 009 | :Pulse Trans | 1 |
| R705 | 247 0007 945 | Chip Resistor 1kohm 1/10W | RM73B-102J | JK001,302 | 204 8178 028 | 1P Pin Jack | 2 |
| R491,492 | 244-2043 940 | Metal Dials 2.2kohm 1W | RS1HBA2221B(SFS) | SW/BV | | | |
| CAPACITORS GROUP | | | | U18,19 | 212 1116 503 | Voltage Selector | Mult. Voltage only |
| C101 | 257 0014 935 | Ceramic(Chip) 0.1 μ F/25V | CK73F1E104Z | U304 | 269 0097 007 | Optical Connector (IN) | (GP1F32R) 1 |
| C103 | 254 4356 713 | Electrolytic 100 μ F/50V | CE04W1H010M(ARS) | U305 | 269 0098 006 | Optical Connector (OUT) | (GP1F32T) 1 |
| C105 | 257 0014 935 | Ceramic(Chip) 0.1 μ F/25V | CK73F1E104Z | CB101 | 205 0321 014 | 5P Connector Base (RED) | 1 |
| C106 | 254 4254 938 | Electrolytic 47 μ F/16V | CE04W1C470M(SME) | CB102 | 205 0343 058 | 5P Connector Base (KR-PH) | 1 |
| C107-109 | 257 0004 961 | Ceramic(Chip) 100pF/50V | CC73L1H101J | CB103 | 205 0892 004 | 12P FFC Connector Base (P=1) | 1 |
| C112 | 254 4254 925 | Electrolytic 33 μ F/16V | CE04W1C330M(SME) | CB201 | 205 0736 063 | 35P FFC Connector Base | 1 |
| C119 | 257 0009 940 | Ceramic(Chip) 0.0033 μ F/50V | CK73B1H332K | CB202 | 205 0343 032 | 3P Connector Base (KR-PH) | 1 |
| C120 | 257 0014 935 | Ceramic(Chip) 0.1 μ F/25V | CK73F1E104Z | CB401 | 205 0711 061 | 15P TBG Connector Base | 1 |
| C121 | 257 0011 941 | Ceramic(Chip) 0.022 μ F/25V | CK73B1E223K | CB412 | 205 0233 087 | 8P EH Connector Base | 1 |
| C122 | 257 0005 944 | Ceramic(Chip) 220pF/50V | CC73L1H221J | CB414,415 | 205 0653 036 | 3P VH Connector Base | 2 |
| C124 | 257 0006 969 | Ceramic(Chip) 680pF/50V | CC73L1H681J | CB501 | 205 0233 087 | 8P EH Connector Base | 1 |
| C125 | 257 0010 997 | Ceramic(Chip) 0.056 μ F/50V | CK73B1H563K | CB800 | 205 0581 001 | 2P VH Connector Base | 1 |
| C126 | 257 0007 942 | Ceramic(Chip) 0.0015 μ F/50V | CC73L1H152J | CB803 | 205 0581 001 | 2P VH Connector Base | 1 |
| C127 | 257 0005 944 | Ceramic(Chip) 220pF/50V | CC73L1H221J | | 204 2745 004 | 7P PH Connector Cord | 1 |
| C128 | 257 0011 909 | Ceramic(Chip) 0.01 μ F/25V | CK73B1E103K | TP102 | 205 0190 078 | 7P NH Connector Base | 1 |
| C131 | 257 0011 909 | Ceramic(Chip) 0.01 μ F/25V | CK73B1E103K | | 417 0476 036 | Radiator | for IC400, 403 |
| C132,133 | 257 0002 921 | Ceramic(Chip) 10pF/50V | CC73L1H100D | | 471 3304 015 | Blind Screw 3x8 | 4 |
| C135 | 257 0009 937 | Ceramic(Chip) 0.0027 μ F/50V | CK73B1H272K | | 417 0476 010 | Radiator | for IC401, 402 |
| C141 | 254 4258 905 | Electrolytic 4.7 μ F/35V | CE04W1V4R7M(SME) | | 412 2160 028 | Common Plate | 1 |
| C174 | 257 0014 935 | Ceramic(Chip) 0.1 μ F/25V | CK73F1E104Z | | 461 0415 007 | Rubber Sheet | 3 |
| C204 | 257 0002 921 | Ceramic(Chip) 10pF/50V | CC73L1H100D | | 415 0366 043 | UL Tube (#2) Clear | 1 |
| C207 | 254 4260 948 | Electrolytic 1 μ F/50V | CE04W1H010M(SME) | | 461 0767 001 | Rubber Sheet | 1 |
| C301 | 257 0014 935 | Ceramic(Chip) 0.1 μ F/25V | CK73F1E104Z | | | | |
| C350 | 257 0011 909 | Ceramic(Chip) 0.01 μ F/25V | CK73B1E103K | | | | |
| C351 | 257 0004 961 | Ceramic(Chip) 100pF/50V | CC73L1H101J | | | | |
| C352-354 | 257 0014 935 | Ceramic(Chip) 0.1 μ F/25V | CK73F1E104Z | | | | |
| C401,402 | 254 4356 771 | Electrolytic 3300 μ F/50V | CE04W1H332M(ARS) | | | | |
| C403,404 | 254 4313 989 | Electrolytic 33 μ F/50V | CE04W1H332M(ASF) | | | | |

1U-2797M DIGITAL SERVO UNIT ASS'Y (DCD-S10 Asia model only)

| Ref. No. | Part No. | Part Name | Remarks | Ref. No. | Part No. | Part Name | Remarks |
|--|--------------|-----------------------------|-------------------|-----------------|-------------------------|---|-----------------------------|
| SEMICONDUCTORS GROUP | | | | | | | |
| IC101 | 262 1879 003 | IC CXD2515Q | | R122 | 247 0009 956 | Chip Resistor 7.5kohm 1/10W | RM73B-752J |
| IC102 | 263 0909 906 | IC BA6392FP | | R123 | 247 0009 999 | Chip Resistor 4.3kohm 1/10W | RM73B-432J |
| IC103 | 263 0565 007 | IC BA1521B | | R124 | 247 0005 989 | Chip Resistor 220ohm 1/10W | RM73B-221K |
| IC104 | 262 0910 002 | IC YM3623B | | R126 | 247 0018 905 | Chip Resistor 0ohm 1/10W | RM73B-0R0K |
| IC105 | 263 0565 007 | IC BA1521B | | R127 | 247 0011 915 | Chip Resistor 96kohm 1/10W | RM73B-963J |
| IC110,111 | 262 1641 901 | IC HD74HC157FP | | R128 | 247 0009 960 | Chip Resistor 3.3kohm 1/10W | RM73B-332J |
| JC201 | 262 2111 003 | IC M38173M6-292FP | | R129 | 247 0007 974 | Chip Resistor 1.3kohm 1/10W | RM73B-132J |
| IC202 | 262 1265 002 | IC TC74HCJ04P | | R130 | 247 0014 967 | Chip Resistor 1Mohm 1/10W | RM73B-105J |
| IC300 | 262 1869 000 | IC SM5845AF | | R131 | 247 0012 927 | Chip Resistor 100kohm 1/10W | RM73B-104J |
| IC350 | 263 0615 902 | IC BA15218F | | R132 | 247 0009 998 | Chip Resistor 11kohm 1/10W | RM73B-113J |
| IC400 | 263 0516 001 | IC NJM7812FA | Regulator +12V | R133 | 247 0008 960 | Chip Resistor 3.3kohm 1/10W | RM73B-332J |
| IC401 | 263 0539 004 | IC NJM79M12FA | Regulator -12V | R136 | 247 0007 945 | Chip Resistor 1kohm 1/10W | RM73B-102J |
| IC402 | 263 0793 002 | IC NJM7806FA(S) | Regulator +6V | R138 | 247 0009 996 | Chip Resistor 11kohm 1/10W | RM73B-113J |
| IC403 | 263 0809 006 | IC NJM7805FA(S) | Regulator +5V | R144,145 | 247 0012 943 | Chip Resistor 120kohm 1/10W | RM73B-124J |
| IC406,407 | 268 0074 904 | IC Protector ICP-N20 | | R146 | 247 0005 989 | Chip Resistor 220ohm 1/10W | RM73B-221J |
| IC409 | 263 0652 907 | IC P5T529C | | R147 | 247 0010 929 | Chip Resistor 15kohm 1/10W | RM73B-153J |
| | | | | R148 | 247 0010 916 | Chip Resistor 13kohm 1/10W | RM73B-133J |
| TR101 | 274 0036 906 | Transistor 2SD468(C) | | R149 | 244 2051 945 | Metal oxide film 1 ohm 1/10W (Non-burning type) | RS1485A100NBS(S) |
| TR102 | 272 0025 907 | Transistor 2SB562(C) | | R151 | 247 0009 956 | Chip Resistor 7.5kohm 1/10W | RM73B-752J |
| TR103 | 269 0026 900 | Transistor RN2202(10K-10K) | Built In Resistor | R161 | 247 0012 985 | Chip Resistor 160kohm 1/10W | RM73B-164J |
| TR111 | 274 0036 905 | Transistor 2SD468(C) | | R162 | 247 0011 999 | Chip Resistor 75kohm 1/10W | RM73B-753J |
| TR112 | 272 0025 907 | Transistor 2SB562(C) | | R192 | 247 0003 949 | Chip Resistor 22ohm 1/10W | RM73B-220J |
| TR119 | 272 0025 907 | Transistor 2SB562(C) | | R202 | 247 0007 945 | Chip Resistor 1kohm 1/10W | RM73B-102J |
| TR120 | 274 0036 905 | Transistor 2SD468(C) | | R205,207 | 247 0007 945 | Chip Resistor 1kohm 1/10W | RM73B-102J |
| TR350 | 273 0303 910 | Transistor 2SC1740(S) | | R209 | 247 0004 977 | Chip Resistor 75ohm 1/10W | RM73B-750J |
| TR401 | 272 0025 907 | Transistor 2SB562(C) | | R214,215 | 247 0012 943 | Chip Resistor 120kohm 1/10W | RM73B-124J |
| TR402,403 | 269 0025 901 | Transistor RN1202(10K-10K) | Built In Resistor | R216 | 247 0012 927 | Chip Resistor 100kohm 1/10W | RM73B-104J |
| D101,102 | 276 0432 903 | Diode 1SS270A | | R217 | 247 0005 989 | Chip Resistor 220ohm 1/10W | RM73B-221J |
| D107 | 276 0432 903 | Diode 1SS270A | | R218 | 247 0004 922 | Chip Resistor 47ohm 1/10W | RM73B-470J |
| D203 | 276 0432 903 | Diode 1SS270A | | R219 | 247 0012 927 | Chip Resistor 100kohm 1/10W | RM73B-104J |
| D402,403 | 276 0553 905 | Diode 1SR35-200A | | R225 | 247 0004 977 | Chip Resistor 75ohm 1/10W | RM73B-750J |
| D404 | 276 0468 908 | Zener Diode HZ57C-1 | 7V | R300-302 | 247 0007 945 | Chip Resistor 1kohm 1/10W | RM73B-102J |
| D405 | 276 0484 906 | Zener Diode HZ533-1 | 33V | R350-355 | 247 0009 985 | Chip Resistor 10kohm 1/10W | RM73B-103J |
| D410-421 | 276 0553 905 | Diode 1SR35-200A | | R366 | 244 2041 947 | Metal oxide film 10 ohm 1/10W (Non-burning type) | RS1485A100NBS(S) |
| RESISTORS GROUP (Not Included Carbon Film ±5% 1/4W) | | | | | | | |
| R001,002 | 247 0018 905 | Chip Resistor 0ohm 1/10W | RM73B-0R0K | R357 | 247 0008 915 | Chip Resistor 2kohm 1/10W | RM73B-202J |
| R003,004 | 247 0009 914 | Chip Resistor 5.1kohm 1/10W | RM73B-512J | R358 | 247 0013 984 | Chip Resistor 470kohm 1/10W | RM73B-474J |
| R005,006 | 247 0018 905 | Chip Resistor 0ohm 1/10W | RM73B-0R0K | R359 | 247 0009 956 | Chip Resistor 7.5kohm 1/10W | RM73B-752J |
| R007 | 247 0009 914 | Chip Resistor 5.1kohm 1/10W | RM73B-512J | R360 | 247 0009 985 | Chip Resistor 10kohm 1/10W | RM73B-103J |
| R101-103 | 247 0009 985 | Chip Resistor 10kohm 1/10W | RM73B-103J | R361 | 247 0010 987 | Chip Resistor 27kohm 1/10W | RM73B-273J |
| R109 | 247 0011 902 | Chip Resistor 33kohm 1/10W | RM73B-333J | R362 | 247 0014 967 | Chip Resistor 1Mohm 1/10W | RM73B-105J |
| R114 | 247 0005 976 | Chip Resistor 200ohm 1/10W | RM73B-201J | R363 | 247 0013 913 | Chip Resistor 240Kohm 1/10W | RM73B-244J |
| R115 | 247 0003 949 | Chip Resistor 22ohm 1/10W | RM73B-220J | R365-368 | 247 0014 967 | Chip Resistor 1Mohm 1/10W | RM73B-105J |
| R116 | 247 0012 956 | Chip Resistor 130kohm 1/10W | RM73B-134J | R406 | 247 0009 985 | Chip Resistor 10kohm 1/10W | RM73B-103J |
| R118 | 247 0009 901 | Chip Resistor 4.7kohm 1/10W | RM73B-472J | R407 | 247 0014 967 | Chip Resistor 1Mohm 1/10W | RM73B-105J |
| R120 | 247 0009 901 | Chip Resistor 4.7kohm 1/10W | RM73B-472J | R409 | 247 0005 989 | Chip Resistor 220ohm 1/10W | RM73B-221J |
| R121 | 247 0011 944 | Chip Resistor 47kohm 1/10W | RM73B-473J | R411 | 247 0006 962 | Chip Resistor 47ohm 1/10W | RM73B-471J |
| | | | | R412 | 247 0009 914 | Chip Resistor 5.1kohm 1/10W | RM73B-512J |
| | | | | R413 | 247 0006 982 | Chip Resistor 470ohm 1/10W | RM73B-471J |

| Ref. No. | Part No. | Part Name | Remarks | Ref. No. | Part No. | Part Name | Remarks | |
|------------------|--------------|-----------------------------|--------------------|-------------|--------------|-----------------------------|--------------------|-----|
| R415 | 247 0014 987 | Chip Resistor 1Mohm 1/10W | RM73B-105J | C423 | 257 0014 935 | Ceramic(Chip) 0.1μF/25V | CK73F1E104Z | |
| R416 | 247 0007 945 | Chip Resistor 1kohm 1/10W | RM73B-102J | C424 | 257 0009 966 | Ceramic(Chip) 0.0047μF/50V | CK73B1H472K | |
| R420 | 247 0009 985 | Chip Resistor 10kohm 1/10W | RM73B-103J | C425,426 | 257 0002 921 | Ceramic(Chip) 10pF/50V | CC73L1H100D | |
| R423,424 | 247 0009 985 | Chip Resistor 10kohm 1/10W | RM73B-103J | C427 | 256 1035 091 | Ceramic 1μF/50V | CF93A1H105J | |
| R431 | 247 0009 985 | Chip Resistor 10kohm 1/10W | RM73B-103J | C431,432 | 254 4446 720 | Electrolytic 2.2μF/50V | CE04W1H29MC(ARSAG) | |
| R440,441 | 247 0009 985 | Chip Resistor 10kohm 1/10W | RM73B-103J | C440 | 257 0014 935 | Ceramic(Chip) 0.1μF/25V | CK73F1E104Z | |
| R442 | 247 0012 927 | Chip Resistor 100kohm 1/10W | RM73B-104J | C441,442 | 255 6167 000 | Polystyrol 0.01μF/125V | CO09S2B103K(B) | |
| R443 | 247 0009 985 | Chip Resistor 10kohm 1/10W | RM73B-103J | C443-448 | 257 0014 935 | Ceramic(Chip) 0.1μF/25V | CK73F1E104Z | |
| R445 | 247 0007 945 | Chip Resistor 1kohm 1/10W | RM73B-102J | C463 | 257 0007 900 | Ceramic(Chip) 0.001μF/50V | CC73L1H102J | |
| R460-463 | 247 0007 945 | Chip Resistor 1kohm 1/10W | RM73B-102J | C491 | 255 4235 934 | Film 0.01μF/100V | CQ93P2A103J(NHf) | |
| R483 | 247 0009 914 | Chip Resistor 5.1kohm 1/10W | RM73B-512J | | | | | |
| R484 | 247 0005 905 | Chip Resistor 100ohm 1/10W | RM73B-101J | | | | | |
| R705 | 247 0007 945 | Chip Resistor 1kohm 1/10W | RM73B-102J | | | | | |
| R491,492 | 244 2043 940 | Metal Oxide 2.2kohm 1W | RS4MB3A222J(BS)(S) | | | | | |
| CAPACITORS GROUP | | | | OTHER PARTS | | | | Qty |
| C101 | 257 0014 935 | Ceramic(Chip) 0.1μF/25V | CK73F1E104Z | X101 | 399 0165 007 | Crystal Resonator | (16.934MHz) | 1 |
| C103 | 254 4486 706 | Electrolytic 1000μF/6.3V | CE04WJ0102MC(ARD) | X200 | 399 0165 007 | Crystal Resonator | (16.934MHz) | 1 |
| C105 | 257 0014 935 | Ceramic(Chip) 0.1μF/25V | CK73F1E104Z | PT300 | 231 8063 009 | Pulse Trans | | 1 |
| C106 | 254 4254 938 | Electrolytic 47μF/16V | CE04W1C470M(SME) | JK301,302 | 204 8178 028 | 1P Pin Jack | | 2 |
| C107-108 | 257 0004 961 | Ceramic(Chip) 100pF/50V | CC73L1H101J | U304 | 269 0097 007 | Optical Connector (IN) | (GP1F32R) | 1 |
| C112 | 254 4254 925 | Electrolytic 33μF/16V | CE04W1C330M(SME) | U305 | 269 0098 006 | Optical Connector (OUT) | (GP1F32T) | 1 |
| C119 | 257 0009 940 | Ceramic(Chip) 0.0033μF/50V | CK73B1H332K | CB101 | 205 0321 054 | 5P Connector Base (RED) | | 1 |
| C120 | 257 0014 935 | Ceramic(Chip) 0.1μF/25V | CK73F1E104Z | CB102 | 205 0343 058 | 5P Connector Base (KR-PH) | | 1 |
| C121 | 257 0011 941 | Ceramic(Chip) 0.022μF/25V | CK73B1E223K | CB103 | 205 0892 004 | 12P FFC Connector Base (P=) | | 1 |
| C122 | 257 0005 944 | Ceramic(Chip) 220pF/50V | CC73L1H221J | CB201 | 205 0736 063 | 35P FFC Connector Base | | 1 |
| C124 | 257 0006 969 | Ceramic(Chip) 680pF/50V | CC73L1H681J | CB202 | 205 0343 032 | 3P Connector Base (KR-PH) | | 1 |
| C125 | 257 0010 997 | Ceramic(Chip) 0.056μF/50V | CK73B1H563K | CB401 | 205 0711 091 | 15P TBG Connector Base | | 1 |
| C126 | 257 0007 942 | Ceramic(Chip) 0.0015μF/50V | CC73L1H152J | CB410 | 205 0190 036 | 3P/NH Connector Base | | 1 |
| C127 | 257 0005 944 | Ceramic(Chip) 220pF/50V | CC73L1H221J | CB411 | 205 0190 005 | 6P NH Connector Base | | 1 |
| C128 | 257 0011 909 | Ceramic(Chip) 0.01μF/25V | CK73B1E103K | CB412 | 205 0233 087 | 8P EH Connector Base | | 1 |
| C131 | 257 0011 909 | Ceramic(Chip) 0.01μF/25V | CK73B1E103K | CB414,415 | 205 0653 036 | 3P VH Connector Base | | 2 |
| C132,133 | 257 0002 921 | Ceramic(Chip) 10pF/50V | CC73L1H100D | CB501 | 205 0233 087 | 8P EH Connector Base | | 1 |
| C135 | 257 0009 937 | Ceramic(Chip) 0.0027μF/50V | CK73B1H272K | CB800 | 205 0606 025 | 2P Wrapping Terminal | | 1 |
| C141 | 254 4258 905 | Electrolytic 4.7μF/35V | CE04W1V47M(SME) | CB801,802 | 205 0581 001 | 2P VH Connector Base | | 2 |
| C174 | 257 0014 935 | Ceramic(Chip) 0.1μF/25V | CK73F1E104Z | CB803 | 205 0581 001 | 2P VH Connector Base | | 1 |
| C204 | 257 0002 921 | Ceramic(Chip) 10pF/50V | CC73L1H100D | | 204 2745 004 | 7P PH Connector Cord | | 1 |
| C207 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010M(SME) | TP102 | 205 0190 078 | 7P NH Connector Base | | 1 |
| C301 | 257 0014 935 | Ceramic(Chip) 0.1μF/25V | CK73F1E104Z | | 417 0476 010 | Radiator | for IC400,403 | 2 |
| C350 | 257 0011 909 | Ceramic(Chip) 0.01μF/25V | CK73B1E103K | | 471 3304 015 | Bind Screw 3x8 | | 4 |
| C351 | 257 0004 961 | Ceramic(Chip) 100pF/50V | CC73L1H101J | | 417 0476 036 | Radiator | for IC401,402 | 2 |
| C352-354 | 257 0014 935 | Ceramic(Chip) 0.1μF/25V | CK73F1E104Z | | 412 2160 031 | Common Plate (CU 0.8) | | 1 |
| C401,402 | 254 4356 771 | Electrolytic 3300μF/50V | CE04W1H332M(CARS) | | 461 0415 007 | Rubber Sheet | | 5 |
| C403,404 | 254 4356 742 | Electrolytic 4700μF/50V | CE04W1H471(A)RS) | | 415 0366 043 | UL TUBE (#2) Clear | | 1 |
| C405 | 257 0014 935 | Ceramic(Chip) 0.1μF/25V | CK73F1E104Z | | 461 0767 001 | Rubber Sheet | | 1 |
| C406,407 | 254 4319 792 | Electrolytic 4700μF/25V | CE04W1E472MC(ASF) | | | | | |
| C409 | 254 4367 906 | Electrolytic 47μF/63V | CE04W1J470M(ASF) | | | | | |
| C413,414 | 254 4313 989 | Electrolytic 33μF/50V | CE04W1H330M(ASF) | | | | | |
| C416 | 257 0003 988 | Ceramic(Chip) 47pF/50V | CC73L1H470J | | | | | |
| C420,421 | 256 1054 001 | Metalized 0.1μF/50V | CF93B1H105K(GSG) | | | | | |

1U-2796 AUDIO UNIT ASS'Y
(1U-2796: DCD-3000 Europe, U.S.A. & Canada and Multi-Voltage Models)
(1U-2796A: DCD-S10 Europe, U.S.A. & Canada models)
(1U-2796M: DCD-S10 Asia Model.)

| Ref. No. | Part No. | Part Name | Remarks | Ref. No. | Part No. | Part Name | Remarks |
|---|--------------|-----------------------------|-------------------|-------------------------|--------------|--------------------------------|---------------------|
| SEMICONDUCTORS GROUP | | | | CAPACITORS GROUP | | | |
| IC301-304 | 262 1837 016 | IC :PCM1702P-J | | C057 | 253 9039 906 | Ceramic 0.1 μ F/25V | CK45-1E104Z |
| IC309.310 | 263 0655 007 | IC BA15218 | | C321-324 | 254 4356 027 | Electrolytic 22 μ F/50V | CE04W1H220M(ARS) |
| IC309.310 | 263 0960 006 | *IC OP275GP | Asia model only | C325-332 | 254 4313 918 | Electrolytic 10 μ F/50V | CE04W1H100M(ASF) |
| IC311-318 | 262 0864 006 | IC μ PC4570C | | C333-340 | 254 4356 713 | Electrolytic 100 μ F/50V | CE04W1H101MC(ARS) |
| IC311.312 | 263 0836 008 | IC SSM2139 | Asia model only | C343-346 | 254 4356 742 | Electrolytic 470 μ F/50V | CE04W1H471(ARS) |
| IC313.314 | 263 0360 008 | :ICNE5532 | Asia model only | C347-350 | 254 4347 052 | Electrolytic 2.2 μ F/50V | CE04W1H2R2M(ARSA) |
| IC315-318 | 263 0205 008 | IC NJM2041DD | Asia model only | C351 | 254 4256 852 | Electrolytic 220 μ F/25V | CE04W1E221M(SME) |
| IC355.356 | 263 0432 907 | IC NJM79L05A | Regulator +5V | C351 | 254 4488 704 | Electrolytic 220 μ F/25V | CE04W1E221MC(ARD) |
| IC357.358 | 263 0722 905 | IC NJM79L05A | Regulator -5V | C353-356 | 255 4235 921 | Film 270pF/100V | DCD-S10 Asia only |
| IC501 | 263 0995 004 | IC NJM4556AD | | C353-356 | 255 6175 047 | Polystyrol 270pF/125V | CQ09S2B271KF(B) |
| IC801 | 499 0254 004 | Remote Sensor GPIU571 | | C357-360 | 255 4235 918 | Film 100pF/100V | CQ09S2A101J(NH) |
| IC901.902 | 263 0655 007 | IC BA15218 | | C357-360 | 255 6175 034 | Polystyrol 100pF/125V | CQ09S2B101KF(B) |
| TR351 | 269 0026 900 | Transistor RN2202 (10K-10K) | Built in Resistor | C371.372 | 255 4232 911 | Film 180pF/100V | CQ09S2A181J(NH) |
| TR352 | 269 0025 901 | Transistor RN1202 (10K-10K) | Built in Resistor | C371.372 | 255 6175 016 | Polystyrol 80pF/125V | CQ09S2B181KF(B) |
| TR353 | 269 0026 900 | Transistor RN2202 (10K-10K) | Built in Resistor | C373.374 | 255 4232 908 | Film 820pF/100V | DCD-S10 Asia only |
| TR500.501 | 273 0253 918 | Transistor 25C2878 (A/B) | | C373.374 | 255 6175 021 | Polystyrol 820pF/125V | CQ09S2B821KF(B) |
| TR801.802 | 269 0025 901 | Transistor RN1202 (10K-10K) | Built in Resistor | C375-380 | 255 4237 903 | Film 0.0027 μ F/100V | CQ09S2A181J(NH) |
| TR804 | 269 0025 901 | Transistor RN1202 (10K-10K) | Built in Resistor | C375.380 | 255 6175 005 | Polystyrol 0.0027 μ F/125V | CQ09S2B272KF(B) |
| TR901-909 | 273 0253 918 | Transistor 25C2878 (A/B) | | C381-388 | 254 4356 713 | Electrolytic 100 μ F/50V | DCD-S10 Asia only |
| D351-354 | 276 0432 903 | Diode 1SS270A | | C389.390 | 255 6167 000 | Polystyrol 0.01 μ F/125V | CE04W1H101MC(ARS) |
| D805-807 | 276 0432 903 | Diode 1SS270A | | C391.392 | 256 1045 007 | Metallized 1 μ F/63V | CQ09S2B103K(BA) |
| D818.819 | 276 0432 903 | Diode 1SS270A | | C503 | 254 4254 776 | Electrolytic 470 μ F/16V | DCD-S10 Asia only |
| LD801.802 | 393 9416 906 | LED SEL-2810D | | C503 | 254 4487 705 | Electrolytic 470 μ F/16V | CE04W1C471MC(ARD) |
| LD804 | 393 9419 905 | LED SEL-2810D | | C504 | 254 4254 792 | Electrolytic 2200 μ F/16V | (DCD-S10 Asia only) |
| RESISTORS GROUP (All carbon film resistor is DCD-S10 Asia model only.) | | | | C504 | 254 4452 714 | Electrolytic 2200 μ F/16V | CE04W1C222MC(SME) |
| R335.336 | 241 2471 962 | Carbon Film 10kohm 1/4W | RD14B2E100J(PSNB) | C504 | 254 4452 714 | Electrolytic 2200 μ F/16V | CE04W1C222MC(ASF) |
| R337.338 | 241 2427 923 | Carbon Film 100kohm 1/4W | RD14B2E104J(PSNB) | C807 | 253 9036 909 | Ceramic 0.1 μ F/25V | (DCD-S10 Asia only) |
| R351 | 241 2424 984 | Carbon Film 10kohm 1/4W | RD14B2E103J(PSNB) | C901-904 | 254 4356 739 | Electrolytic 47 μ F/50V | CK45-1E104Z |
| R353 | 241 2423 956 | Carbon Film 3kohm 1/4W | RD14B2E302J(PSNB) | C905-908 | 255 4232 924 | Film 39pF/100V | CE04W1H470MC(ARS) |
| R354 | 241 2419 999 | Carbon Film 91ohm 1/4W | RD14B2E91J(PSNB) | C909-912 | 255 4232 937 | Film 0.001 μ F/100V | CQ09S2A360J(NH) |
| R355 | 241 2422 944 | Carbon Film 11kohm 1/4W | RD14B2E102J(PSNB) | | | | CQ09S2A102J(NH) |
| R361-364 | 241 2421 929 | Carbon Film 330ohm 1/4W | RD14B2E331J(PSNB) | | | | |
| R365-372 | 241 2422 944 | Carbon Film 11kohm 1/4W | RD14B2E102J(PSNB) | | | | |
| R373-376 | 241 2423 972 | Carbon Film 3.6kohm 1/4W | RD14B2E362J(PSNB) | | | | |
| R377-380 | 241 2423 927 | Carbon Film 2.2kohm 1/4W | RD14B2E222J(PSNB) | | | | |
| R381.382 | 241 2424 942 | Carbon Film 6.8kohm 1/4W | RD14B2E682J(PSNB) | | | | |
| R383.384 | 241 2423 972 | Carbon Film 3.6kohm 1/4W | RD14B2E362J(PSNB) | | | | |
| R385.386 | 241 2422 973 | Carbon Film 1.3kohm 1/4W | RD14B2E132J(PSNB) | | | | |
| R387.388 | 241 2423 943 | Carbon Film 2.7kohm 1/4W | RD14B2E272J(PSNB) | | | | |
| R389-392 | 241 2424 900 | Carbon Film 4.7kohm 1/4W | RD14B2E472J(PSNB) | | | | |
| R811-814 | 241 2424 942 | Carbon Film 6.8kohm 1/4W | RD14B2E682J(PSNB) | | | | |
| R815 | 241 2418 945 | Carbon Film 22ohm 1/4W | RD14B2E220J(PSNB) | | | | |
| R816 | 241 2415 919 | Carbon Film 47ohm 1/4W | RD14B2E470J(PSNB) | | | | |
| R999.999 | 241 2427 923 | Carbon Film 100kohm 1/4W | RD14B2E104J(PSNB) | | | | |
| VR300 | 211 0544 111 | Variable Resistor 20Kohm | V1620V20FA203M | | | | |
| | | | | OTHER PARTS | | | |
| | | | | RLS01 | 214 0127 003 | Relay (RY-12W) | Qty |
| | | | | | | | 2 |
| | | | | SW800 | 212 0101 006 | Power Switch (TV-S) | 1 |
| | | | | | | | 1 |
| | | | | | 212 5004 907 | Tact Switch | 7 |
| | | | | JK403.404 | 204 9406 017 | 1P Pin Jack | 2 |

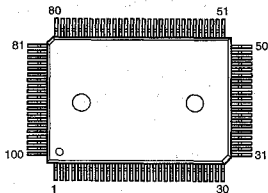
1U-2836A SERVO AMP UNIT ASS'Y
 (This unit is common in all models and
 Ser. No. 501 **** and after.)

| Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|-----------|--------------|---------------------------|------------------------|------|
| JK405 | 204 8285 009 | 4P RCA Pin Jack (EMI) | Except DCD-S10 Asia | 1 |
| PJ301 | 204 8322 007 | Head Phone Jack | | 1 |
| FL801 | 363 4095 007 | FL Tube | (FIP10SM6) | 1 |
| CB301 | 204 2447 014 | 8P PH-SAN Shield Cord | | 1 |
| CB400 | 205 0711 061 | 15P TBG Connector Base | | 1 |
| CB401,402 | 205 0581 001 | 2P VH Connector Base | DCD-S10 Asia only | 2 |
| CB404,405 | 205 0653 036 | 3P VH Connector Base | | 2 |
| CB406 | 205 0343 061 | 6P Connector Base (KR-PH) | | 1 |
| CB805 | 205 0736 083 | 35P PFC Connector Base | | 1 |
| CB900 | 205 0581 001 | 2P VH Connector Base | | 1 |
| CC301 | 205 0343 087 | 8P Connector Base (KR-PH) | | 1 |
| CC302 | 203 4650 039 | 3P PH-SAN Connector Cord | | 1 |
| CN901 | 205 0343 061 | 6P Connector Base (KR-PH) | | 1 |
| CN902,903 | 205 0428 009 | 3P Cannon Connector | | 2 |
| | 415 0299 000 | Condenser Cover | for C900 | 1 |

| Ref. No. | Part No. | Part Name | Remarks |
|--|--------------|----------------------------|-------------------|
| SEMICONDUCTORS GROUP | | | |
| IC901 | 263 0565 007 | IC BA15218 | |
| TR901 | 269 0025 901 | Transistor RN1202 | Built in resistor |
| RESISTORS GROUP (Not Included Carbon Film ±5% 1/4W type. Refer to the Schematic diagram for those parts.) | | | |
| CAPACITORS GROUP | | | |
| C901 | 253 2293 834 | Ceramic Cap. 100pF/50V | CK45B1H101K |
| C902 | 256 1035 907 | Metallized Cap. 0.18μF/50V | CF93A1H184J |
| OTHER GROUP | | | |
| | | (P.W. board) | (1) |
| CB901 | 205 0343 074 | 7P Conn. Base (KR-PH) | 1 |
| | 001 0018 082 | Vinyl Wire | L=40 1 |
| | 001 0164 020 | Vinyl Wire | L=140 1 |

IC TERMINAL FUNCTION

CXD2515Q (IC101)

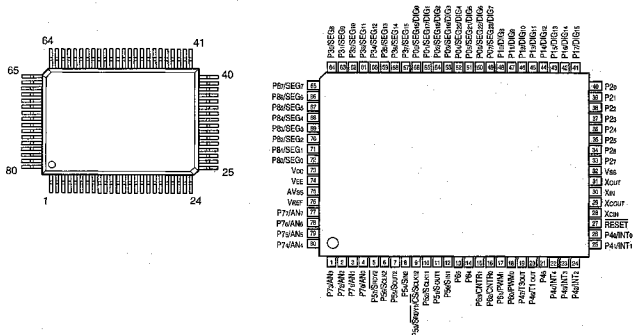


CXD2515Q Terminal Function

| Pin No. | Symbol | I/O | Terminal Function |
|---------|------------------|-----|--|
| 1 | SRON | O | Sted drive output. |
| 2 | SRDR | O | Sted drive output. |
| 3 | SPON | O | Sted drive output. |
| 4 | TFDR | O | Tracking drive output. |
| 5 | TRON | O | Tracking drive output. |
| 6 | TRDR | O | Tracking drive output. |
| 7 | TFON | O | Tracking drive output. |
| 8 | FFDR | O | Focus drive output. |
| 9 | FRON | O | Focus drive output. |
| 10 | FRDR | O | Focus drive output. |
| 11 | FFON | O | Focus drive output. |
| 12 | VCOO | O | Oscillation circuit output for analog EFM PLL. |
| 13 | VCOI | I | Oscillation circuit input for analog EFM PLL. f _{LOCK} =6.8436MHz. |
| 14 | TEST | I | Test terminal, normally GND. |
| 15 | V _{SS} | — | Digital GND. |
| 16 | TES2 | I | Test terminal, normally GND. |
| 17 | TES3 | I | Test terminal, normally GND. |
| 18 | PDO | O | Charge pump output for analog EFM PLL. |
| 19 | VPCO | O | PLL charge pump output for variable pitch. |
| 20 | VCKI | I | Clock input from external VCO for variable pitch. f _{CENTER} =16.9344MHz. |
| 21 | AV _{DD} | — | Analog power supply. |
| 22 | IGEN | I | Current source reference resistor connecting terminal for OP amplifier. |
| 23 | AV _{SS} | — | Analog GND. |
| 24 | ADII | I | A/D converter input terminal. |
| 25 | ADIO | O | OP amplifier output terminal. |
| 26 | RFDC | I | RF signal input. Input range 2.15~5.0V (at V _{DD} =AV _{DD} =5.0V). |
| 27 | TE | I | Tracking error signal input. Input range 2.5V±1.0V (at V _{DD} =AV _{DD} =5.0V). |
| 28 | SE | I | Sted error signal input. Input range 2.5V±1.0V (at V _{DD} =AV _{DD} =5.0V). |
| 29 | FE | I | Focus error signal input. Input range 2.5V±1.0V (at V _{DD} =AV _{DD} =5.0V). |
| 30 | VC | I | Mid-point voltage input terminal. |
| 31 | FILO | O | Filter output for master PLL. |
| 32 | FILI | I | Filter input for master PLL. |
| 33 | PCO | O | Charge pump output for master PLL. |
| 34 | CLTV | I | VCO control voltage input for master. |
| 35 | AV _{SS} | — | Analog GND. |
| 36 | RFAC | I | EFM signal input. |
| 37 | BIAS | I | Asymmetry circuit constant current input. |
| 38 | ASYI | I | Asymmetry compare voltage input. |
| 39 | ASYO | O | EFM full swing output. (L=V _{SS} , H=V _{DD}). |
| 40 | AV _{DD} | — | Analog power supply. |

| Pin No. | Symbol | I/O | Terminal Function |
|---------|--------|-----|---|
| 41 | Vcc | — | Digital power supply. |
| 42 | ASVE | I | Asymmetry circuit ON/OFF (L=OFF, H=ON). |
| 43 | PSSL | I | Audio data output mode shifting input. L to serial output, H to parallel output. |
| 44 | WDCK | O | 48-bit slot D/A interface. Word clock f=2Fs. |
| 45 | LRCK | O | 48-bit slot D/A interface. LR clock f=Fs. |
| 46 | DA16 | O | DA16 output at PSSL=1. Serial data of 48-bit slot at PSSL=0. |
| 47 | DA15 | O | DA15 output at PSSL=1. Bit clock of 48-bit slot at PSSL=0. |
| 48 | DA14 | O | DA14 output at PSSL=1. Serial data of 64-bit slot at PSSL=0. |
| 49 | DA13 | O | DA13 output at PSSL=1. Bit clock of 64-bit slot at PSSL=0. |
| 50 | DA12 | O | DA12 output at PSSL=1. LR clock of 64-bit slot at PSSL=0. |
| 51 | DA11 | O | DA11 output at PSSL=1. GTOP output at PSSL=0. |
| 52 | DA10 | O | DA10 output at PSSL=1. XUGF output at PSSL=0. |
| 53 | DA09 | O | DA09 output at PSSL=1. XPCLK output at PSSL=0. |
| 54 | DA08 | O | DA08 output at PSSL=1. GFS output at PSSL=0. |
| 55 | DA07 | O | DA07 output at PSSL=1. RFCK output at PSSL=0. |
| 56 | DA06 | O | DA06 output at PSSL=1. C2PO output at PSSL=0. |
| 57 | DA05 | O | DA05 output at PSSL=1. XRAOF output at PSSL=0. |
| 58 | DA04 | O | DA04 output at PSSL=1. MNT3 output at PSSL=0. |
| 59 | DA03 | O | DA03 output at PSSL=1. MNT2 output at PSSL=0. |
| 60 | DA02 | O | DA02 output at PSSL=1. MNT1 output at PSSL=0. |
| 61 | DA01 | O | DA01 output at PSSL=1. MNT0 output at PSSL=0. |
| 62 | XTAI | I | XTai oscillation circuit input. 16.9344MHz or 33.8688MHz input. |
| 63 | XTAO | O | XTai oscillation circuit output. |
| 64 | XTSL | I | XTai selection input terminal. L at X'tai for 16.9344MHz, at 33.8688MHz turns to H. |
| 65 | Vss | — | Digital GND. |
| 66 | FST1 | I | 2/3 divided input of terminals 62 and 63. |
| 67 | FST0 | O | 2/3 divided input of terminals 62 and 63. Unvarying by variable pitch. |
| 68 | C4M | O | 4.2366MHz output. Simultaneously varies when variable pitched. |
| 69 | C16M | O | 16.9344MHz output. Simultaneously varies when variable pitched. |
| 70 | MD2 | I | Digital-out ON/OFF control terminal (L=OFF, H=ON). |
| 71 | DOUT | O | Digital-out output terminal. |
| 72 | EMPH | O | Emphasis mode output of playback disc (L at without emphasis, H at emphasized). |
| 73 | WFCK | O | WFCK output. |
| 74 | SCDR | O | Subcode sync output terminal (H at detecting either one of SO or SI subcode sync). |
| 75 | SBSO | O | Serial output of sub P-W. |
| 76 | EXCK | I | Clock input for SBSO read out. |
| 77 | SQSO | O | SubQ 80-bit output. PCM peak data, level data 16-bit output. |
| 78 | SQCK | I | Clock input for SQSO read out. |
| 79 | MUTE | I | Mute shifting terminal (H to mute). |
| 80 | SENS | O | SENS output. Outputs to CPU. |
| 81 | XRST | I | System reset (L to reset). |
| 82 | DIRC | I | Used for at-track jump. |
| 83 | SCLK | I | Clock for SENS serial data reading. |
| 84 | DFSW | I | DFCT shifting terminal (H to DFCT countermeasure circuit OFF). |
| 85 | ATSK | I | Anti-shock terminal. |
| 86 | DATA | I | Serial data input from CPU. |
| 87 | XLAT | I | Latch input from CPU. |
| 88 | CLOCK | I | Serial data transfer clock input from CPU. |
| 89 | COUT | O | Number of track count signal output. |
| 90 | Vcc | — | Digital power supply. |
| 91 | MIRR | O | Mirror signal output. |
| 92 | DFCT | O | Defect signal output. |
| 93 | FOK | O | Focus OK output. |
| 94 | FSW | O | Output filter shifting output of spindle motor. |
| 95 | MON | O | ON/OFF control output of spindle motor. |
| 96 | MDP | O | Servo control of spindle motor. |
| 97 | MDS | O | Servo control of spindle motor. |
| 98 | LOCK | O | Sampling GFS with 460Hz and outputs H at GFS is H. Outputs L when continuously 8 times L. |
| 99 | SSTP | I | Terminal for inner most circle detection signal of disc. |
| 100 | SFDR | O | Sled drive output. |

M38173M6-292FP (IC201)



M38173M6-292FP Terminal Function

| Pin No. | Terminal Name | Symbol | I/O | TY | OP | AC | IN | Terminal Function |
|---------|---------------|-------------|-----|----|----|----|-----|---|
| 1 | P73 | DMUTE | O | A | — | H | H | Digital mute signal (H: ON, L: OFF). |
| 2 | P72 | AMUTE | O | A | — | H | H | Analog mute signal (H: ON, L: OFF). |
| 3 | P71 | VRUP | O | A | — | L | H | Electrical-drive variable resistor up output. |
| 4 | P70 | VRDN | O | A | — | L | H | Electrical-drive variable resistor down output. |
| 5 | P57 | INVERT | O | B | — | L | H | Audio inverting output (L: negative, H: positive) |
| 6 | P56 | FDATA | O | B | — | — | H | Data for NPC SM5845 control. |
| 7 | P55 | CLK | O | B | — | — | H | Clock for NPC SM5845 control. |
| 8 | P54 | FLAT | O | B | — | L | H | Latch for NPC SM5845 control. |
| 9 | P53 | INMOST | I | B | — | L | (H) | INMOST SW inner circle detection switch. |
| 10 | P52 | SQCK | O | B | — | — | H | SUB code Q data reading clock. |
| 11 | P51 | MODEL | I | B | — | — | H | H: DCD 3000, L: DCD1015 |
| 12 | P50 | SUBQ | I | B | — | H | (H) | SUB code Q data input. |
| 13 | P65 | DIRC | O | A | — | L | H | DIRC output (CXA1372). |
| 14 | P64 | FOK | I | A | — | H | (H) | FOK input (CXA1372). |
| 15 | P63 | GFS | I | A | — | H | (H) | GFS input (CXA1372). |
| 16 | P62 | SENSE | I | A | — | H | (H) | Sense input (CXA1372, CXA2515). |
| 17 | P61 | CLK | O | A | — | — | H | Control clock output (CXA1372, CXD2515). |
| 18 | P60 | DATA | O | A | — | — | H | Control data output (CXA1372, CXD2515). |
| 19 | P47 | XLT | O | A | — | L | H | Control latch output (CXA1372, CXD2515). |
| 20 | P46 | LASW | O | A | — | H | L | Laser drive signal. |
| 21 | P45 | SCLK | O | A | — | — | L | SUB setting value read clock output. |
| 22 | P44 | STEP | O | A | — | — | — | Electron variable resistor gain setting clock output. |
| 23 | P43 | E. VR. UP | — | A | — | — | H | Electron variable resistor up output. |
| 24 | P42 | E. VR. DOWN | O | A | — | — | H | Electron variable resistor down output. |
| 25 | P41/INT1 | SCOR | I | A | — | L | (H) | Interrupt from SUB code. |

I/O: I/O
 TY: Type
 OP: Option
 AC: Action
 IN: Initialize

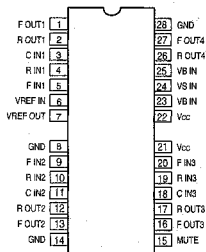
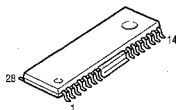
Type: A: Standard
 B: N-ch Open drain
 C: P-ch Open drain (high voltage proof)

| Pin No. | Terminal Name | Symbol | I/O | TY | OP | AC | IN | Terminal Function |
|---------|---------------|----------|-----|-----|-----|-----|-----|--|
| 26 | P4QINT0 | RIN | I | A | --- | L | (H) | Interrupt from remote control. |
| 27 | RESET | RST | I | --- | --- | L | --- | Reset signal input. |
| 28 | XCIN | LROCK | I | --- | --- | --- | --- | SUB clock input for LROCK. |
| 29 | XCOUJ | NC | O | --- | --- | --- | --- | Open. |
| 30 | XIN | XIN | I | --- | --- | --- | --- | XTAL 4.23 MHz. |
| 31 | XOUT | XOUT | O | --- | --- | --- | --- | XTAL 4.23 MHz. |
| 32 | VSS | GND | I | --- | --- | --- | --- | GND |
| 33 | P27 | MAINS | O | A | --- | H | H | Alpha 1 ON/OFF H: ON, L: OFF. |
| 34 | P26 | SHFTN | O | A | --- | L | H | Bit shift ON/OFF H: OFF, L: ON. |
| 35 | P25 | ADEEN | O | A | --- | L | H | Alpha 2 ON/OFF H: OFF, L: ON. |
| 36 | P24 | AGCNTL | O | A | --- | H | L | Auto gain control, H: auto adjustment. |
| 37 | P23 | OPEN | O | A | --- | L | H | Loader open signal. |
| 38 | P22 | CLOSE | O | A | --- | L | H | Loader close signal. |
| 39 | P21 | MD2 | O | A | --- | H | H | Digital out ON/OFF signal, H: ON. |
| 40 | P20 | CD/AUX | O | A | --- | --- | --- | DA input source selection output, H: AUX, L: CD. |
| 41 | P17 | G2 | O | C | PD | H | L | Grid terminal (display indication). |
| 42 | P16 | G3 | O | C | PD | H | L | Grid terminal (display indication). |
| 43 | P15 | G4 | O | C | PD | H | L | Grid terminal (display indication). |
| 44 | P14 | G5 | O | C | PD | H | L | Grid terminal (display indication). |
| 45 | P13 | G6 | O | C | PD | H | L | Grid terminal (display indication). |
| 46 | P12 | G7 | O | C | PD | H | L | Grid terminal (display indication). |
| 47 | P11 | G8 | O | C | PD | H | L | Grid terminal (display indication). |
| 48 | P10 | G9 | O | C | PD | H | L | Grid terminal (display indication). |
| 49 | P07 | G1 | O | C | PD | H | L | Grid terminal (display indication). |
| 50 | P08 | G10 | O | C | PD | H | L | Grid terminal (display indication). |
| 51 | P05 | FOCUS | O | C | PD | L | H | Focus error offset, L: Focus search. |
| 52 | P04 | l | O | C | PD | H | L | Segment terminal (display indication). |
| 53 | P03 | k | O | C | PD | H | L | Segment terminal (display indication). |
| 54 | P02 | j | O | C | PD | H | L | Segment terminal (display indication). |
| 55 | P01 | i | O | C | PD | H | L | Segment terminal (display indication). |
| 56 | P00 | a | O | C | PD | H | L | Segment terminal (display indication). |
| 57 | P37 | b | O | C | PD | H | L | Segment terminal (display indication). |
| 58 | P36 | f | O | C | PD | H | L | Segment terminal (display indication). |
| 59 | P35 | g | O | C | PD | H | L | Segment terminal (display indication). |
| 60 | P34 | e | O | C | PD | H | L | Segment terminal (display indication). |
| 61 | P33 | d | O | C | PD | H | L | Segment terminal (display indication). |
| 62 | P32 | h | O | C | PD | H | L | Segment terminal (display indication). |
| 63 | P31 | c | O | C | PD | H | L | Segment terminal (display indication). |
| 64 | P30 | OPTICAL | O | C | --- | --- | L | Optical output, H: OPT, L: COAX. |
| 65 | P87 | SER2 | I | C | --- | --- | --- | Digital input for Is detection input 2. |
| 66 | P86 | SER1 | I | C | --- | --- | --- | Digital input for Is detection input 1. |
| 67 | P85 | ERR | I | C | --- | --- | --- | Digital input for error input. |
| 68 | P84 | DEP | I | C | --- | --- | --- | Digital input for emphasis ON/OFF input. |
| 69 | P83 | K4 | I | C | --- | H | (H) | Key input 4 |
| 70 | P82 | K3 | I | C | --- | H | (H) | Key input 3 |
| 71 | P81 | K2 | I | C | --- | H | (H) | Key input 2 |
| 72 | P80 | K1 | I | C | --- | H | (H) | Key input 1 |
| 73 | VCC | +5V | I | --- | --- | --- | --- | +5V |
| 74 | VEE | -30V | I | --- | --- | --- | --- | Power supply for FIP drive |
| 75 | AVSS | GND | I | --- | --- | --- | --- | GND |
| 76 | VREF | +5V | I | --- | --- | --- | --- | +5V |
| 77 | P77 | OPT LED | O | A | --- | H | L | Optical LED drive output. |
| 78 | P76 | COAX LED | O | A | --- | H | L | COAX LED drive output. |
| 79 | P75 | SWCL | I | A | --- | L | (L) | Close detection switch. |
| 80 | P74 | SWOP | I | A | --- | L | (L) | Open detection switch. |

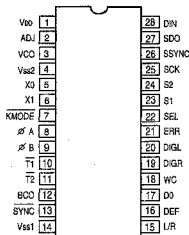
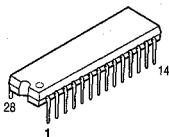
SEMICONDUCTORS

● IC's

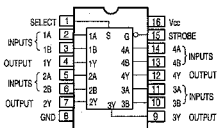
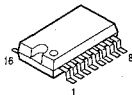
BA6392FP (IC102)



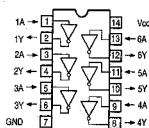
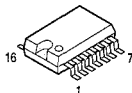
YM3623B (IC104)



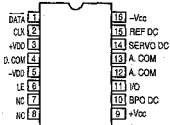
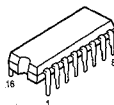
HD74HC157FP (IC110, 111)



TC74HCU04AP (IC202)



PCM1702P-J (IC301-304)



BA15218
(IC103, 105, 309, 310, 901)
OP275GP (IC309, 310)
SSM2139 (IC311, 312)
NE5532 (IC313, 314)

DCD-S10
Asia model only



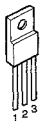
NJM2041DD (IC315-318) DCD-S10 Asia model only
NJM4556AD (IC501)
 μ PC4570C (IC311-318)



BA15218F (IC350)

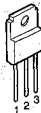


NJM7812FA (IC400)



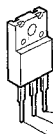
1: Input
2: GND
3: Output

NJM79M12FA (IC401)



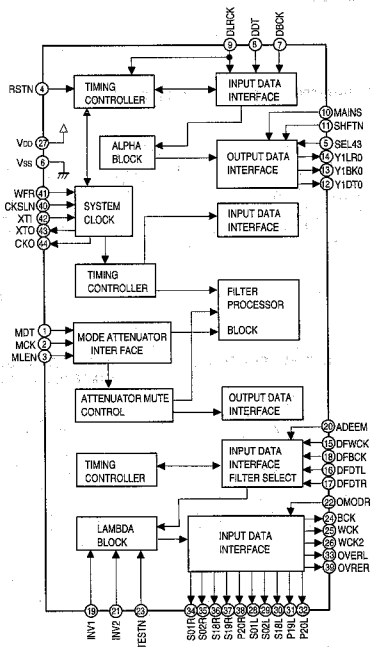
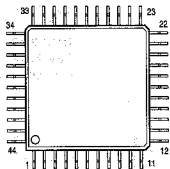
1: GND
2: Output
3: Input

NJM7805FA (S) (IC403)
NJM7806FA (S) (IC402)

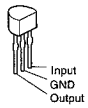


1: Output
2: GND
3: Input

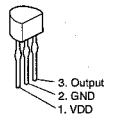
SM5845-AF (IC300)



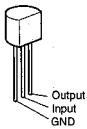
NJM78L05A
(IC355, 356)



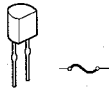
PST529C
(IC409)



NJM79L05A
(IC357, 358)



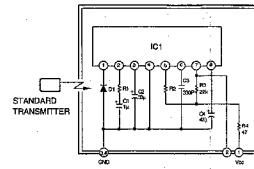
● **IC PROTECTOR**
ICP-N20 (IC406, 407)



● **OTHER**
GP1U571 (Remote Control Receiver)
(IC801)



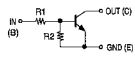
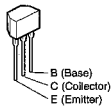
1. Vcc
2. Output
3. GND
4. Case Fin
5. Case Fin



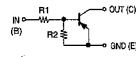
- IC1 : CX20106A Chip
- D1 : PIN Photodiode Chip
- C1,C2,C4 : Aluminum Electrolytic Capacitor
- C3 : SL Characteristic ±5%
- R1 : Gain control resistor
- R2 : fo control resistor (Using ±1%)
- R (Other than above items) : ±5%

● **TRANSISTORS**

RN1202 (10K-10K) NPN Type
RN2202 (10K-10K) PNP Type
(BUILT IN RESISTOR)

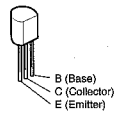


| | R1 | R2 |
|--------|--------|--------|
| RN1202 | 10kohm | 10kohm |

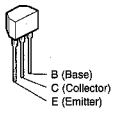


| | R1 | R2 |
|--------|--------|--------|
| RN2202 | 10kohm | 10kohm |

2SB562 (C)
2SC2878 (A/B)
2SD468 (C)



2SC1740S (S)



● **DIODES**

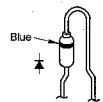
HZS7C-1
HZS33-1



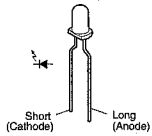
1SS270A



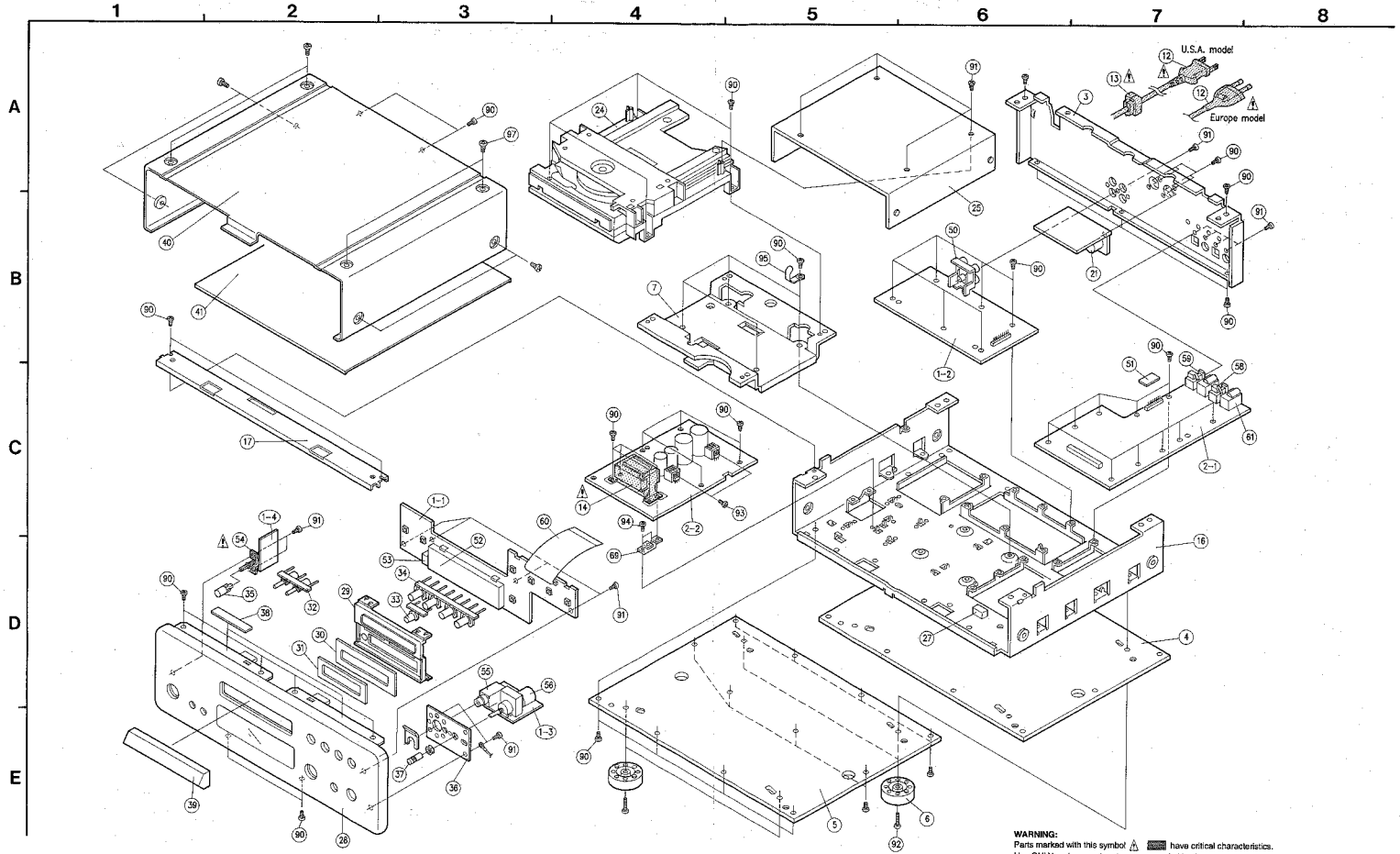
1SR35-200A



SEL2810R (Red)
SEL2810D (Amber)



EXPLODED VIEW (DCD-S10 Europe, U.S.A. & Canada Models)



WARNING:
Parts marked with this symbol ▲ have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

(DCD-S10 Asia Model)

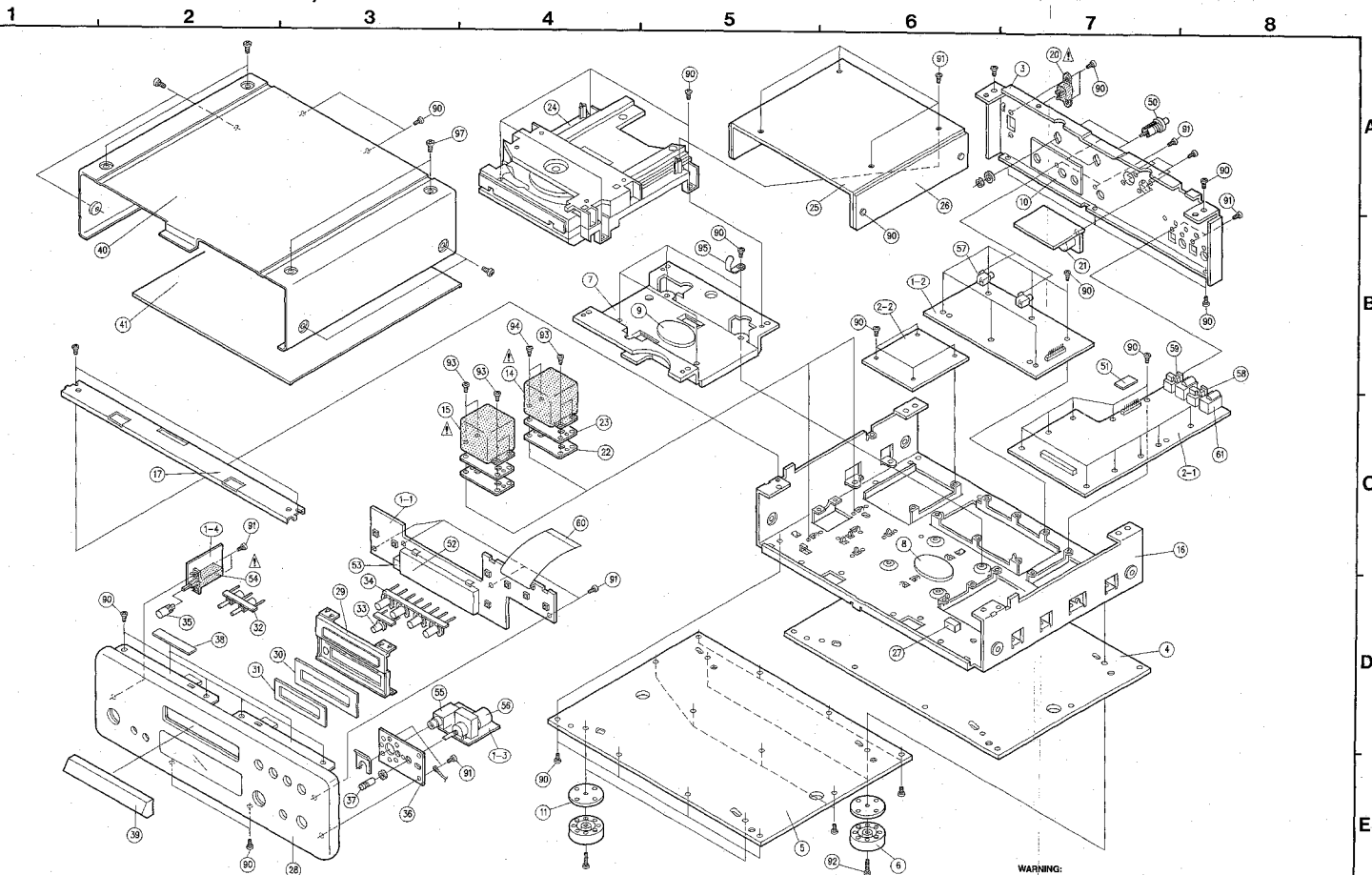
| Ref. No. | Part No | Part Name | Remarks | Qty | Ref. No. | Part No | Part Name | Remarks | Qty | | | | | |
|----------|--------------|-----------------------------|------------|-----|---|--------------|----------------------------|--------------|-----|-----|--------------|-------------------|-------------|----|
| 1 | 1U-2798 M | Audio P.W.B. Assy | | 1s | 62 | 1U-2836 A | Servo Amp. P.W.B. Assy | | 1s | | | | | |
| 1-1 | — | Display Unit | | (1) | ★ 63 | 214 0127 003 | Relay (RY-12W) | RL301 | 1 | | | | | |
| 1-2 | — | Audio Unit | | (1) | ★ 64 | 513 1606 006 | Power Trans Label (A) | | 1 | | | | | |
| 1-3 | — | Head Phone Unit | | (1) | ★ 65 | 513 1607 005 | Power Trans Label (B) | | 1 | | | | | |
| 1-4 | — | Power Switch Unit | | (1) | ★ 66 | 125 0078 001 | Squara Washer | | 2 | | | | | |
| 1-5 | — | Balance Out Unit | | (1) | ★ 67 | 513 2289 043 | Rating Sheet | | 1 | | | | | |
| 2 | 1U-2797 M | Digital Servo P.W.B. Assy | | 1s | ★ 68 | 513 1220 000 | Caution Label | Bottom Cover | 1 | | | | | |
| 2-1 | — | Servo Unit | | (1) | ★ 69 | 412 3956 008 | Trans Bracket | | 1 | | | | | |
| 2-2 | — | Power Supply Unit | | (1) | | | | | | | | | | |
| 3 | 105 1170 001 | Rear Panel | | 1 | 90 | 473 8034 001 | Screw 3x8 CBTS(B)-CU | | 48 | | | | | |
| 4 | 105 1152 100 | Inside Bottom | | 1 | 91 | 473 7518 104 | Screw 3x10 CBTS(P)-CU | | 18 | | | | | |
| 5 | 105 1151 211 | Bottom Cover | | 1 | 92 | 473 7007 026 | Screw 4x16 CBTS(S)-B | Black | 4 | | | | | |
| 6 | 104 0267 006 | Foot Assy | | 4 | 93 | 473 7508 017 | Screw 3x10 CBTS(S)-B | Black | 6 | | | | | |
| 7 | 412 2843 400 | Mecha Fix Bracket | | 1 | 94 | 473 7002 021 | Screw 3x8 CBTS(S)-B | Black | 2 | | | | | |
| 8 | 129 0214 003 | Bass Rubber (l) | | 1 | 95 | 445 0048 016 | Cord Holder | L=50 | 2 | | | | | |
| 9 | 129 0215 002 | Bass Rubber (s) | | 1 | 96 | — | — | | | | | | | |
| 10 | 412 3992 101 | Pin Jack Damper | | 1 | 97 | 471 6043 008 | Special Screw | | 8 | | | | | |
| 11 | 129 0212 005 | Foot Damper | | 4 | 98 | 471 3830 000 | Screw 3x6 CBS-CU | | 4 | | | | | |
| 14 | 233 6171 003 | Power Trans (Audio) | | 1 | PACKING & ACCESSORIES (not Included EXPLODED VIEW) | | | | | | | | | |
| 15 | 233 6172 008 | Power Trans (Digital) | | 1 | | | | | | | | | | |
| 16 | 411 1317 219 | Chassis | | 1 | | | | | | | | | | |
| 17 | 411 1318 014 | Front Angle | | 1 | | | | | | | | | | |
| 18 | — | — | | 1 | | | | | | | | | | |
| 20 | 203 3962 003 | AC Inlet | | 1 | | | | | | 151 | 505 0131 076 | Cabinet Cover | | 1 |
| 21 | 205 0428 009 | 3P Cannon Connector | CN902,903 | 2 | | | | | | 152 | 504 0092 060 | Styrene Paper | For AC Cord | 1 |
| 22 | 129 0213 004 | Trans Damper | | 2 | | | | | | 153 | 503 9275 102 | Cushion | | 2 |
| 23 | 412 3957 007 | Trans Plate | | 2 | | | | | | 154 | 501 1860 056 | Carton Case | | 1 |
| 24 | 337 0041 000 | CD Mecha Unit (FG-77) | | 1 | | | | | | 155 | GEN 3032 -3 | Envelop Sub. Assy | | 1s |
| 25 | 412 3866 108 | Mecha Cover | | 1 | 155-1 | 505 0036 030 | Poly Cover | | (1) | | | | | |
| 26 | 441 1706 007 | Mecha Cover Damper | | 2 | 155-2 | 511 2721 007 | Operating Instructions (3) | | (1) | | | | | |
| 27 | 461 0889 015 | Cushion (T:15) | | 1 | 155-3 | 511 2722 006 | Operating Instructions | | (1) | | | | | |
| 28 | 144 2426 100 | Front Panel Assy | | 1 | 155-4 | 204 8121 004 | 2P Pin Cord | | (1) | | | | | |
| 29 | 146 1542 216 | FL Holder | | 1 | 155-5 | 399 0263 006 | Remote Control Unit | RC-253 | (1) | | | | | |
| 30 | 143 0919 207 | Window | | 1 | 155-6 | 202 0644 002 | AC Plug Adaptor | | (1) | | | | | |
| 31 | 144 2450 000 | Display Frame | | 1 | 155-7 | 205 2130 000 | AC Cord W/Con & Plug | | (1) | | | | | |
| 32 | 113 1708 102 | Input Button Assy | | 1 | 155-8 | 511 2773 000 | Notice Sheet | | (1) | | | | | |
| 33 | 113 1709 004 | OP/CL Button Assy | | 1 | 156 | 513 9111 001 | Color Label (Gold) | | 2 | | | | | |
| 34 | 113 1710 006 | Function Button Assy | | 1 | | | | | | | | | | |
| 35 | 113 9303 101 | Power Button Assy | | 1 | | | | | | | | | | |
| 36 | 412 3935 003 | Headphone Bracket | | 1 | | | | | | | | | | |
| 37 | 113 1713 100 | Headphone Button Assy | | 1 | | | | | | | | | | |
| 38 | 129 0140 151 | Rubber Sheet | T: 2.0 | 2 | | | | | | | | | | |
| 39 | 144 2436 150 | Loader Panel Assy | | 1 | | | | | | | | | | |
| 40 | 102 9048 000 | Top Cover | | 1 | | | | | | | | | | |
| 41 | 441 1709 006 | Top Cover Damper | | 1 | | | | | | | | | | |
| 50 | 204 9801 006 | 1p Pin Jack | | 2 | | | | | | | | | | |
| 51 | 205 0711 091 | 15P TBG-S Connector | CB400, 401 | 2 | | | | | | | | | | |
| 52 | 393 4095 007 | E.L. Tube FIP105M6 | FL801 | 1 | | | | | | | | | | |
| 53 | 499 0264 004 | Remocen Sensor GP1U571 | IC801 | 1 | | | | | | | | | | |
| 54 | 213 1101 006 | Power Switch | SW1900 | 1 | | | | | | | | | | |
| 55 | 204 8322 007 | Headphone Jack | PJ301 | 1 | | | | | | | | | | |
| 56 | 211 0544 111 | Variable Resistor 20kohm | VR300 | 1 | | | | | | | | | | |
| 57 | 204 8406 017 | 1P Pin Jack | JK403,404 | 2 | | | | | | | | | | |
| 58 | 269 0098 006 | Optical Connector (GP1F32T) | Out U305 | 1 | | | | | | | | | | |
| 59 | 269 0097 007 | Optical connector (GP1F32R) | In U304 | 1 | | | | | | | | | | |
| 60 | 009 0090 033 | 35P FFC Cable | L=145 | 1 | | | | | | | | | | |
| 61 | 204 8178 028 | 1P Pin Jack | JK301,302 | 2 | | | | | | | | | | |

PARTS LIST OF EXPLODED VIEW (DCD-S10 Europe, U.S.A. & Canada Models)

| Ref. No. | Part No | Part Name | Remarks | Q'ty | Ref. No. | Part No | Part Name | Remarks | Q'ty |
|----------|--------------|----------------------------|------------------------|------|---|--------------|-----------------------------|-----------------------------|------|
| 1 | 1U-2796 A | Audio P.W.B. Ass'y | | 1s | 54 | 212 1101 006 | Power Switch (T)-5 | SW200 | 1 |
| 1-1 | — | Display Unit | | (1) | 55 | 204 8322 007 | Headphone Jack | PJ301 | 1 |
| 1-2 | — | Audio Unit | | (1) | 56 | 211 0544 111 | Variable Resistor 20kohm | VR300 | 1 |
| 1-3 | — | Head Phone Unit | | (1) | 57 | — | — | — | 1 |
| 1-4 | — | Power Switch Unit | | (1) | 58 | 269 0098 006 | Optical Connector (GP1F32T) | Out U305 | 1 |
| 1-5 | — | Balance Out Unit | | (1) | 59 | 269 0097 007 | Optical connector (GP1F32R) | In U304 | 1 |
| 2 | 1U-2798 | Digital Servo P.W.B. Ass'y | Europe model | 1s | 60 | 009 0090 033 | 35P FFC Cable | L-145 | 1 |
| | 1U-2798 D | Digital Servo P.W.B. Ass'y | U.S.A. & Canada models | 1s | 61 | 204 8178 028 | 1P Pin Jack | JK301,302 | 2 |
| 2-1 | — | Servo Unit | | (1) | 62 | 1U-2836 A | Servo Amp. P.W.B. Ass'y | | 1s |
| 2-2 | — | Power Supply Unit | | (1) | 63 | 214 0127 003 | Relay (RY-12W) | RL301 | 1 |
| 3 | 105 1150 128 | Rear Panel | | 1 | 64 | 513 1381 004 | Manufac. Date Label | U.S.A. & Canada models only | 1 |
| 4 | 105 1152 100 | Inside Bottom | | 1 | 65 | 513 0772 009 | UL Label | U.S.A. & Canada models only | 1 |
| 5 | 105 1151 208 | Bottom Cover | | 1 | 66 | LL-6442 8 | CSA Label | U.S.A. & Canada models only | 1 |
| 6 | 104 9044 000 | Font Ass'y | | 4 | 67 | 513 2337 015 | Rating Sheet | Europe model | 1 |
| 7 | 412 2843 400 | Mecha Bracket Ass'y | | 1 | 68 | 513 2301 038 | Rating Sheet | U.S.A. & Canada models only | 1 |
| 8 | — | — | | — | 69 | 513 1220 000 | Caution Label | | 1 |
| 9 | — | — | | — | 70 | 412 3956 008 | Trans Bracket | | 1 |
| 10 | — | — | | — | 71 | 122 0196 007 | Sheet (Double Circle) | | 2 |
| 11 | — | — | | — | 72 | 513 2141 007 | Caution Label | U.S.A. & Canada models only | 1 |
| 12 | 206 2089 106 | AC Cord | Europe model | 1 | 73 | 513 2055 002 | Laser Caution | Europe model only | 1 |
| 12 | 206 2110 004 | AC Cord | U.S.A. & Canada models | 1 | 74 | 513 0985 003 | Inst. Label | Europe model only | 1 |
| 13 | 445 0066 008 | Cord Bush | | 1 | 74 | 412 3989 004 | SEMKO Bracket | Europe model only | 1 |
| 14 | 203 8628 006 | Power Trans | U.S.A. & Canada models | 1 | 90 | 473 7002 021 | Screw 3x8 CBTS(S)-B | Black | 57 |
| 14 | 253 8151 816 | Power Trans | Europe model | 1 | 91 | 473 7508 017 | Screw 3x10 CBTS(P)-B | Black | 17 |
| 16 | 411 1317 219 | Chests | | 1 | 92 | 473 7007 013 | Screw 4x10 CBTS(S)-B | Black | 4 |
| 17 | 411 1318 014 | Front Angle | | 1 | 93 | 471 3304 015 | Screw 3x8 CBS-Z | | 4 |
| 18 | — | — | | — | 94 | 473 7005 073 | Screw 3x5 CBTS(S)-Z | | 4 |
| 19 | — | — | | — | 95 | 445 0048 016 | Cord Holder | L=50 | 2 |
| 20 | — | — | | — | 96 | — | — | | — |
| 21 | 205 0428 009 | 3P Cannon Connector | CN802,903 | 2 | 97 | 471 9043 008 | Special Screw | | 8 |
| 22 | — | — | | — | PACKING & ACCESSORIES (not included EXPLODED VIEW) | | | | |
| 23 | — | — | | — | 151 | 505 0131 078 | Cabinet Cover | | 1 |
| 24 | 337 0041 000 | CD Mecha Unit (FG-77) | | 1 | 152 | 504 0092 060 | Styrene Paper | For AC Cord | 1 |
| 25 | 412 2866 108 | Mecha Cover | | 1 | 153 | 503 9275 102 | Cushion | | 2 |
| 26 | — | — | | — | 154 | 501 1860 027 | Carton Case | | 1 |
| 27 | 461 0889 015 | Cushion (T-15) | | 1 | 155 | 515 0690 006 | DEL Warranty Home | U.S.A., Canada only | 1 |
| 28 | 144 2428 100 | Front Panel Ass'y | | 1 | 156 | 517 0102 040 | UPC Label | U.S.A., Canada only | 1 |
| 29 | 146 1542 216 | FL Holder | | 1 | 157 | GEN 3032 | Envelope Sub. Ass'y | Europe model | 1s |
| 30 | 143 0919 207 | Window | | 1 | 157 | GEN 3032-6 | Envelope Sub. Ass'y | U.S.A. & Canada models | 1s |
| 31 | 144 2450 000 | Display Frame | | 1 | 157-1 | 505 0038 030 | Poly Cover | | 1 |
| 32 | 113 1708 102 | Input Button Ass'y | | 1 | 157-2 | 511 2718 007 | Operating Instructions (5) | Europe, U.K. only | 1 |
| 33 | 113 1709 004 | OP/CL Button Ass'y | | 1 | 157-3 | 511 2721 007 | Operating Instructions (3) | | 1 |
| 34 | 113 1710 006 | Function Button Ass'y | | 1 | 157-4 | 204 8121 004 | :2P Pin Cord | | 1 |
| 35 | 113 9303 101 | Power Button Ass'y | | 1 | 157-5 | 399 0283 006 | Remote Control Unit | RC-253 | 1 |
| 36 | 412 3935 003 | Headphone Bracket | | 1 | 158 | 513 9111 001 | Color Label (Gold) | | 2 |
| 37 | 113 1713 100 | Headphone Button Ass'y | | 1 | 159 | 513 8253 025 | Approval Mark | Europe model only | 1 |
| 38 | 129 0140 151 | Rubber Sheet | T: 2.0 | 2 | | | | | |
| 39 | 144 2436 150 | Loader Panel Ass'y | | 1 | | | | | |
| 40 | 102 9048 000 | Top Cover | | 1 | | | | | |
| 41 | 441 1709 006 | Top Cover Damper | | 1 | | | | | |
| 50 | 204 8295 009 | 4P PCA Pin Jack | JK405 | 1 | | | | | |
| 51 | 205 0711 091 | 15P TBG-S Connector | CB400,401 | 2 | | | | | |
| 52 | 393 4095 007 | F.L. Tube FIP10SM6 | FL601 | 1 | | | | | |
| 53 | 499 0264 004 | Remocon Sensor GP1U571 | IC801 | 1 | | | | | |

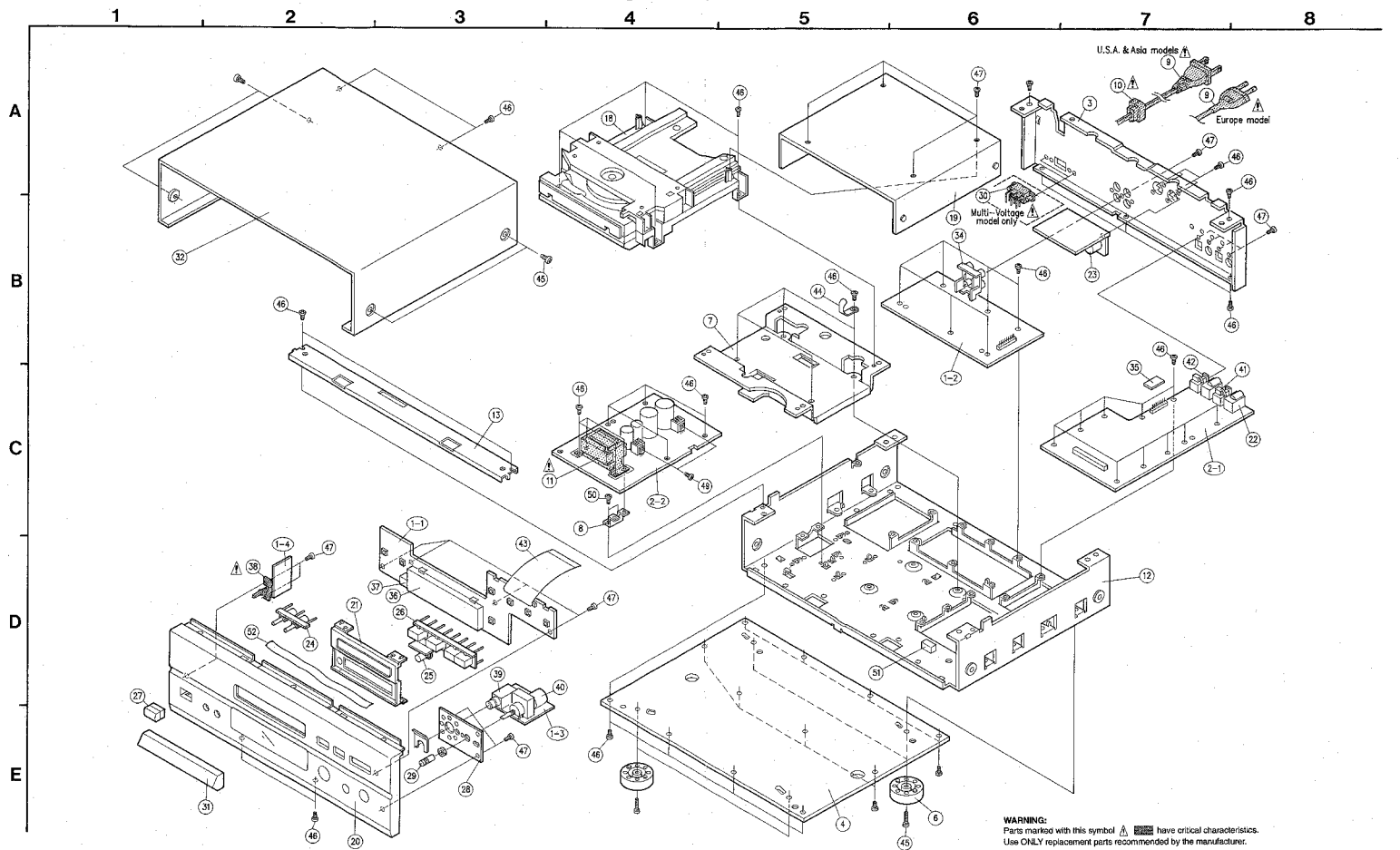
NOTE: (Gold) in the Remarks column refers to models with Gold front panels.

EXPLODED VIEW (DCD-S10 Asia Model)



WARNING:
 Parts marked with this symbol  have critical characteristics.
 Use ONLY replacement parts recommended by the manufacturer.

EXPLODED VIEW (DCD-3000 Europe, U.S.A. and Canada and Multi-Voltage Models)



WARNING:
Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

PARTS LIST OF EXPLODED VIEW

(Model DCD-3000 EUROPE, U.S.A. & Canada, and Multi-Voltage Models)

| Ref. No. | Part No | Part Name | Remarks | Q'ty | Ref. No. | Part No | Part Name | Remarks | Q'ty |
|---|--------------|-----------------------------|----------------------------------|------|----------|--------------|---------------------------|----------------------------------|------|
| 1 | 1U-2796 | Audio P.W.B. Assy | | 1s | 45 | 473 7007 000 | Screw 4-8 CBTS (S)-B | Black | 8 |
| 1-1 | — | Display Unit | | (1) | 46 | 473 7002 021 | Screw 3-8 CBTS (S)-B | Black | 50 |
| 1-2 | — | Audio Unit | | (1) | 47 | 473 7508 017 | Screw 3-10 CBTS (P)-B | Black | 17 |
| 1-3 | — | Head Phone Unit | | (1) | 49 | 471 3304 015 | Screw 3-8 CBS-Z | | 4 |
| 1-4 | — | Power Switch Unit | | (1) | 50 | 473 7005 073 | Screw 3-6 CBTS (S)-Z | | 4 |
| 1-5 | — | Balance Out Unit | Multi-Voltage model | (1) | 51 | 481 0889 002 | Cushion (7-10) | | 1 |
| 2 | 1U-2798 | Digital Servo P.W.B. Assy | Europe model | 1s | 52 | 122 0167 113 | Top Cover Spacer | | 1 |
| 2-1 | 1U-2798D | Digital Servo P.W.B. Assy | U.S.A. & Canada models | 1s | * 53 | 113 2536 A | Servo Amp. P.W.B. Assy | | 1s |
| 2-2 | 1U-2798S | Digital Servo P.W.B. Assy | Multi-Voltage model | 1s | * 54 | 214 0127 003 | Relay (RY-12W) | RL301 | 1 |
| 3 | 105 1150 131 | Rear Panel | Multi-Voltage model | 1 | * 55 | 125 0077 002 | Spacer | 10x160 | 1 |
| 3 | 105 1150 102 | Rear Panel | Europe, U.S.A. and Canada models | 1 | * 56 | 129 0222 006 | Rubber Spacer | T4 | 1 |
| 4 | 105 1152 100 | Inside Bottom | | 1 | * 57 | 122 0196 007 | Sheet | | 2 |
| 6 | 104 0180 112 | Foot Assy | | 4 | * 100 | 513 2065 002 | Laser Caution Label | Europe, U.S.A. and Canada models | 1 |
| 7 | 412 2812 402 | Mecha Fix Bracket | | 1 | * 101 | 513 1220 000 | Caution Label | | 1 |
| 8 | 412 3868 008 | Trana Bracket | | 1 | * 102 | 513 2301 041 | Ratling Sheet | U.S.A. model | 1 |
| 9 | 209 8099 106 | AC Cord | Multi-Voltage model | 1 | | 513 2337 002 | Ratling Sheet | Europe model | 1 |
| 9 | 209 2110 004 | AC Cord | U.S.A. & Canada models | 1 | | 513 2374 007 | Ratling Sheet | Multi-Voltage model | 1 |
| 9 | 209 8099 106 | AC Cord | Europe model | 1 | * 103 | 513 2141 007 | Caution Label | U.S.A. & Canada models | 1 |
| 10 | 445 3955 085 | Cart Sheet | | 1 | * 104 | 513 0772 006 | UL Label | U.S.A. & Canada models | 1 |
| 11 | 263 9167 016 | Power Trans | Europe model | 1 | * 105 | LL-6442 B | CSA Label | U.S.A. & Canada models | 1 |
| 11 | 153 2682 006 | Power Trans | U.S.A. & Canada models | 1 | * 106 | 513 1381 004 | Manufac. Date Label | U.S.A. & Canada models | 1 |
| 11 | 233 8152 019 | Power Trans | Multi-Voltage model | 1 | * 107 | 513 1286 002 | Fuse Caution Label | U.S.A. & Canada models | 1 |
| 12 | 411 1317 206 | Chassis | | 1 | * 108 | 513 0985 003 | Inst. Label | Europe, Multi-Voltage models | 1 |
| 13 | 411 1318 001 | Front Angle | | 1 | * 109 | 513 8253 025 | Approval Mark | Europe model | 1 |
| 18 | 337 0039 009 | CD Mecha Unit (FG-76) | | 1 | * 110 | 515 8030 040 | Presel Label 230V | Multi-Voltage model | 1 |
| 19 | 412 3866 111 | Mecha Cover | | 1 | | | | | |
| 20 | 144 2426 102 | Front Panel Assy | | 1 | | | | | |
| 21 | 146 1542 203 | FL Holder | | 1 | | | | | |
| 22 | 204 8178 026 | 1p Pin Jack | JK301,302 | 2 | | | | | |
| 23 | 205 0428 006 | 3P Cannon Connector | CN602,603 | 2 | | | | | |
| 24 | 113 1705 008 | Input Button Assy | | 1 | | | | | |
| 25 | 113 1705 024 | OP/DL Button Assy | | 1 | | | | | |
| 26 | 113 1706 007 | Function Button Assy | | 1 | | | | | |
| 27 | 113 1705 000 | Power Button Assy | | 1 | | | | | |
| 28 | 412 3935 003 | Headphone Bracket | | 1 | | | | | |
| 28 | 113 1713 113 | Headphone Button Assy | | 1 | | | | | |
| 29 | 512 1116 002 | Relay/Solenoid | SV929 | 1 | | | | | |
| 29 | 512 1116 002 | Relay/Solenoid | Multi-Voltage model | 1 | | | | | |
| 31 | 144 2436 105 | Loader Panel Assy | | 1 | | | | | |
| 32 | 102 0656 009 | Top Cover | | 1 | | | | | |
| 34 | 204 8265 009 | 4P RCA Pin Jack | JK405 | 1 | | | | | |
| 35 | 205 0711 091 | 15P TBG-S Connector | CB400,401 | 2 | | | | | |
| 36 | 393 4064 007 | FL Tube FIP105M6 | FL801 | 1 | | | | | |
| 37 | 499 0284 004 | Remocon Sensor GP1U571 | IC801 | 1 | | | | | |
| 38 | 212 1431 006 | Power Switch | SV900 | 1 | | | | | |
| 39 | 204 8322 007 | Headphone Jack | | 1 | | | | | |
| 40 | 211 0544 111 | Variable Resistor 20kohm | | 1 | | | | | |
| 41 | 269 0696 006 | Optical Connector (GP1F32T) | Out U305 | 1 | | | | | |
| 42 | 269 0697 007 | Optical Connector (GP1F32P) | In U304 | 1 | | | | | |
| 43 | 009 0690 033 | 3SP PFC Cable | L=145 | 1 | | | | | |
| 44 | 445 0048 016 | Cord Holder | L=50 | 2 | | | | | |
| PACKING & ACCESSORIES (not included EXPLODED VIEW) | | | | | | | | | |
| | | | | | 151 | 535 0151 076 | Cabinet Cover | | 1 |
| | | | | | 152 | 534 0082 060 | Styrene Paper | For AC Cord | 1 |
| | | | | | 153 | 503 9275 102 | Question | | 2 |
| | | | | | 154 | 501 1860 001 | Carton Case | | 1 |
| | | | | | 155 | 515 0690 006 | DEL Warranty Home | U.S.A.,Canada only | 1 |
| | | | | | 156 | 517 0102 037 | UPC Label | U.S.A.,Canada only | 1 |
| | | | | | 157 | GEN 3032 - | Envelop Sub. Assy | Europe model | 1s |
| | | | | | | GEN 3032 -2 | Envelop Sub. Assy | U.S.A. & Canada models | 1s |
| | | | | | | GEN 3032 -3 | Envelop Sub. Assy | Multi-Voltage model | 1s |
| | | | | | 157-1 | 505 0038 030 | Poly Cover | | (1) |
| | | | | | 157-2 | 511 2719 007 | Operating Instructions(5) | Europe,U.K. only | (1) |
| | | | | | 157-3 | 511 2721 007 | Operating Instructions(3) | | (1) |
| | | | | | 157-4 | 511 2722 006 | Operating Instructions | Multi-Voltage only | (1) |
| | | | | | 158-5 | 204 8121 004 | :2P Pin Cord | | (1) |
| | | | | | 158-6 | 989 0280 009 | :Remote Control Unit | RC-252 | (1) |
| | | | | | 157-7 | - | Dry Battery | R06P/AAUM-3 | (2) |
| | | | | | 201 3961 | 206 0049 004 | AC Plug Adaptor | 1AEP-10A/EP-1506E | |

NOTE: (301) in the Remarks column refers to models with Gold front panel.

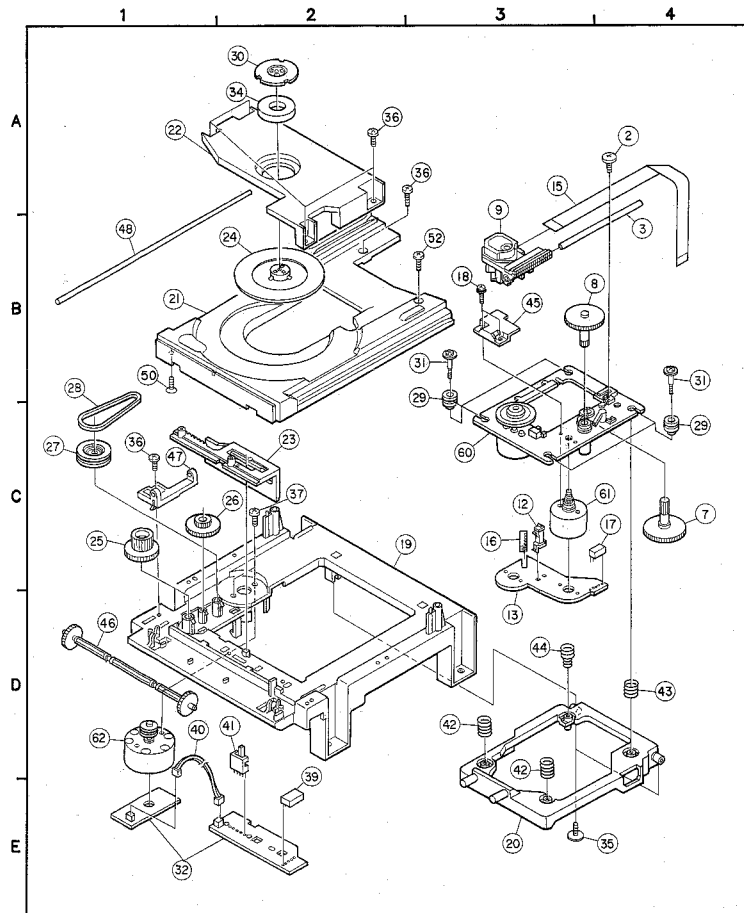
PARTS LIST OF FG-76/77 MECHANISM UNIT

FG-76 Part No. 337 0039 009 for DCD-3000

FG-77 Part No. 338 0041 000 for DCD-S10

| Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|----------|--------------|------------------------|----------------|------|
| 2 | 9KA 90H0 06 | FS Fixing Screw | | 1 |
| 3 | 9KA 90H0 05 | Feed Shaft | | 1 |
| 7 | 9KA 90G0 17 | Drive Gear (A) | | 1 |
| 8 | 9KA 90G0 18 | Drive Gear (B) | | 1 |
| 9 | 9B6 01S1 009 | Laser P.U | | 1 |
| 12 | 9KS 01W1 47 | Last Switch | | 1 |
| 13 | 9KA 85P0 09 | Motor P.W.B. | | 1 |
| 15 | 009 00S1 001 | 12P FFC Cable | | 1 |
| 16 | 443 10S3 006 | FFC Bush | | 1 |
| 17 | 9KA 82G2 53 | SSB-PH Connector Base | | 1 |
| 18 | 9KM 20S0 04 | Screw 2x4 (Sems) | | 2 |
| 19 | 411 1319 301 | Mecha. Chassis | | 1 |
| 20 | 9KA 85G0 20 | Mecha. Frame (FG70) | | 1 |
| 21 | 431 0363 219 | Loader 76 | model DCD-3000 | 1 |
| 22 | 431 0363 205 | Loader 77 | model DCD-S10 | 1 |
| 22 | 412 3943 202 | Clamper Holder | | 1 |
| 23 | 9KA 4G00 5A | UD Plate Gear (FG70) | | 1 |
| 24 | 421 0710 203 | Clamper (F) | | 1 |
| 25 | 9KA 85S0 07 | Ratay Gear (A) | | 1 |
| 26 | 9KA 4G00 6A | Ratay Gear (B) | | 1 |
| 27 | 9KA 85G0 09 | Ratay Gear (C) | | 1 |
| 28 | 9KA 85G0 10 | Gear Bolt (F) | | 1 |
| 29 | 9KA 85G0 30 | Damper (FG40) | | 4 |
| 30 | 9KA 85P0 07 | Clamper Plate (F) | | 1 |
| 31 | 9KA 85H0 01 | Screw (F) | | 4 |
| 32 | 9KA 85P0 05 | Motor P.W.B. (FG-70) | | 1 |
| 34 | 9KA 82G0 57 | Magnet | | 1 |
| 35 | 9KA 92H0 01 | Special Screw 3x8 | | 2 |
| 36 | 9KB 30B0 08 | Screw 3x8 Balind | | 6 |
| 37 | 9KM 26BK 04 | Screw 2.6x4 Balind | | 2 |
| 39 | 9KA 82G3 08 | SSB-PH (Red) | | 1 |
| 40 | 9KA 85G0 27 | C/WZ (FG70) | | 1 |
| 41 | 9KS 01W1 48 | OP/C.L Switch (SSS-12) | | 1 |
| 42 | 9KA 85S0 04 | Spring (D) | | 2 |
| 43 | 9KA 85S0 02 | Spring (B) | | 1 |
| 44 | 9KA 85S0 03 | Spring (C) | | 1 |
| 45 | 9KA 85G0 33 | Gear Guide | | 1 |
| 46 | 424 0246 109 | Loader Gear | | 1 |
| 47 | 412 3944 308 | Holder | | 1 |
| 48 | 431 0384 001 | Slide Shaft | | 1 |
| 50 | 9KH 30PK 08 | Screw 3x8 CPS | | 1 |
| 52 | 9KB 30PK 10 | Screw 3x10 Balind | | 1 |
| 60 | 9KA 85A0 14 | Spindle Motor Ass'y | | 1s |
| 81 | 9KA 85A0 08 | Feed Motor Ass'y | | 1s |
| 82 | 9KA 85A0 05 | Loading Motor Ass'y | | 1s |

EXPLODED VIEW OF FG-76/77 MECHANISM UNIT



P.W. BOARD UNIT ASS'Y

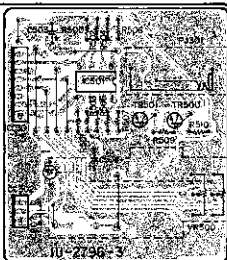
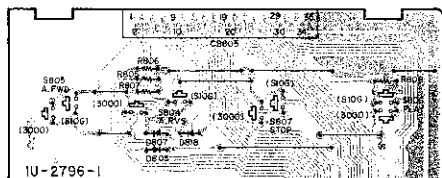
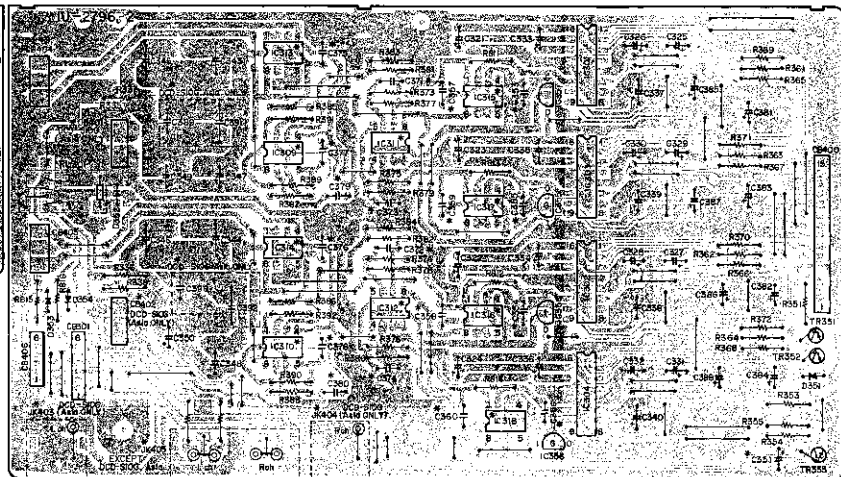
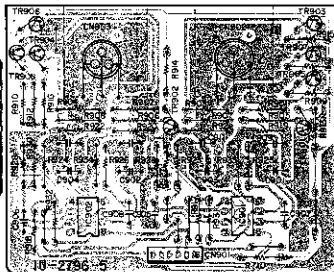
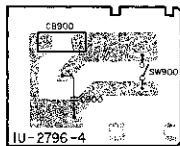
1 2 3 4 5 6 7 8

1U-2796 AUDIO UNIT

1U-2796 DCD-3000 Europe, U.S.A. & Canada and Multi-Voltage Models

1U-2796A DCD-S10 Europe, U.S.A. & Canada Models

1U-2796M DCD-S10 Asia Model

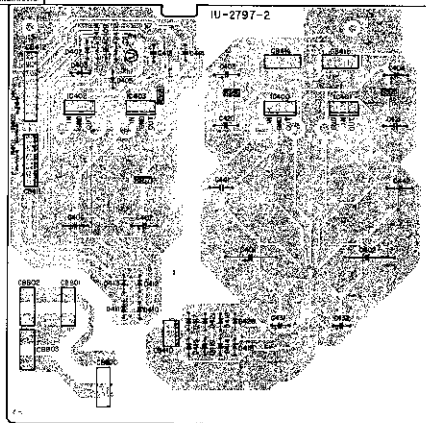
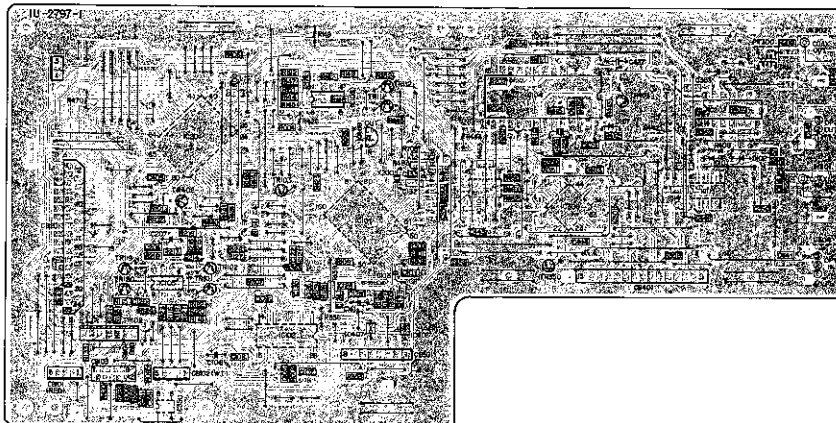


| # | Unit No. | IC26-010 | IC31-012 | IC31-014 | IC31-018 | CS1 | CS3-356 | CS7-360 | CS71-372 | CS73-374 | CS75-386 | CS8-396 | CS9-392 | CS3 | CS4 | JK103-024 | JK105 | CB101-102 | RS3-999 |
|----------|-----------------|----------|----------|----------|----------|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------|---------|----------------|-----------------|-----------|-------------|-----------|----------------------------------|
| DCD-3000 | Europe | 1U-2796 | µPC4370C | µPC4570C | µPC4570C | 220µF/25V (SME) | 270µF/100V (SME) | 100µF/100V Film | 180µF/100V Film | 180µF/100V Film | 5.0µF/100V Film | — | — | 4.7µF/5V (SME) | 220µF/16V (SME) | — | 4P Pin Jack | — | Carbon Film |
| | U.S.A. & Canada | 1U-2796 | µPC4370C | µPC4570C | µPC4570C | 220µF/25V (SME) | 270µF/100V (SME) | 100µF/100V Film | 180µF/100V Film | 180µF/100V Film | 5.0µF/100V Film | — | — | 4.7µF/5V (SME) | 220µF/16V (SME) | — | 4P Pin Jack | — | Carbon Film |
| | Multi-Voltage | 1U-2796 | µPC4570C | µPC4570C | µPC4570C | 220µF/25V (SME) | 270µF/100V Film | 100µF/100V Film | 180µF/100V Film | 180µF/100V Film | 5.0µF/100V Film | — | — | 4.7µF/5V (SME) | 220µF/16V (SME) | — | 4P Pin Jack | — | Carbon Film |
| DCD-S10 | Europe | 1U-2796A | µPC4370C | µPC4570C | µPC4570C | 220µF/25V (SME) | 270µF/100V (SME) | 100µF/100V Film | 180µF/100V Film | 180µF/100V Film | 5.0µF/100V Film | — | — | 4.7µF/5V (SME) | 220µF/16V (SME) | — | 4P Pin Jack | — | Carbon Film |
| | U.S.A. & Canada | 1U-2796A | µPC4370C | µPC4570C | µPC4570C | 220µF/25V (SME) | 270µF/100V (SME) | 100µF/100V Film | 180µF/100V Film | 180µF/100V Film | 5.0µF/100V Film | — | — | 4.7µF/5V (SME) | 220µF/16V (SME) | — | 4P Pin Jack | — | Carbon Film |
| | Asia model | 1U-2796M | µPC7059 | SM7119 | NE527 | 220µF/25V (SME) | 270µF/100V Polymer | 100µF/100V Polymer | 180µF/100V Polymer | 180µF/100V Polymer | 5.0µF/100V Polymer | — | — | 4.7µF/5V (RPN) | 220µF/16V (SME) | — | 4P Pin Jack | — | Carbon Film Con Base 1 (TR30) |

A
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1 2 3 4 5 6 7 8

1U-2797 DIGITAL SERVO UNIT (DCD-S10 Asia Model only)



A

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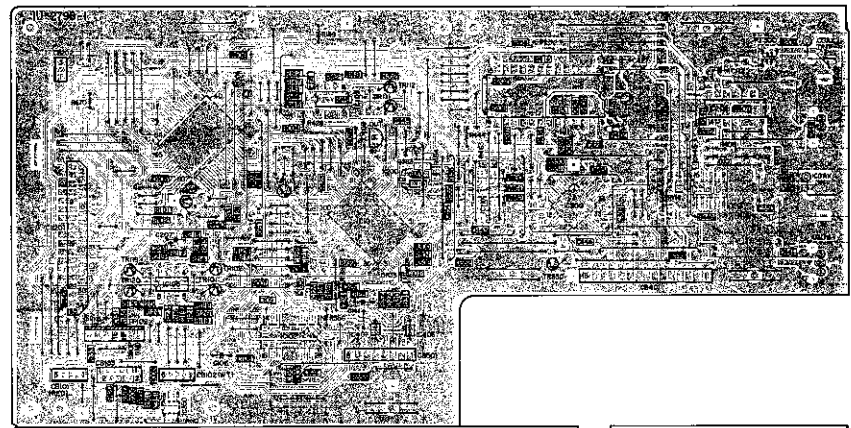
E

1 2 3 4 5 6 7 8

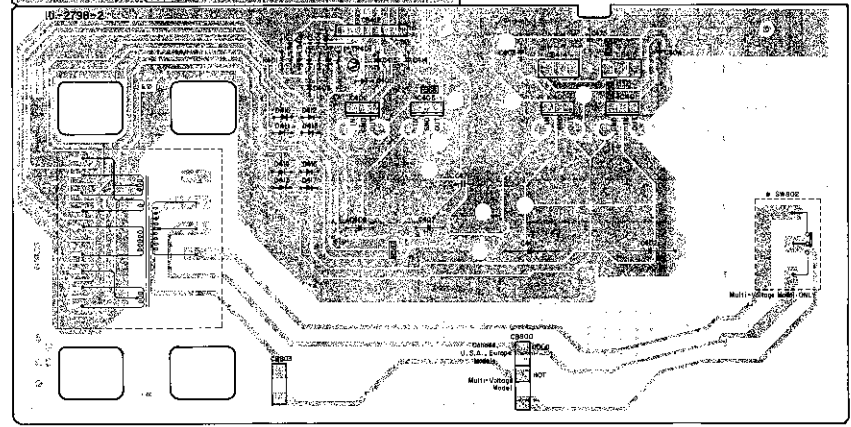
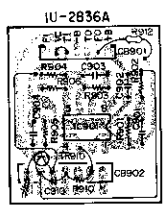
1U-2798 DIGITAL SERVO UNIT

1U-2798 DCD-3000, DCD-S10 Europe Models
 1U-2798D DCD-3000, DCD-S10 U.S.A. & Canada Models
 1U-2798B DCD-3000 Multi-Voltage Model

| | Unit No. | SW982 |
|----------|-----------------|----------|
| DCD-S10 | Europe | 1U-2798 |
| | U.S.A. & Canada | 1U-2798D |
| DCD-3000 | Europe | 1U-2798 |
| | U.S.A. & Canada | 1U-2798D |
| | Multi-voltage | 1U-2798B |



1U-2836A SERVO AMP UNIT

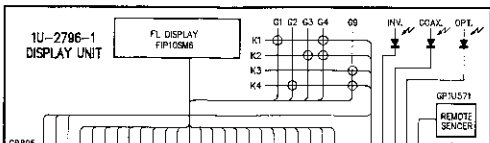


A
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D
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WIRING DIAGRAM

1 2 3 4 5 6 7 8

| | | UNIT NO. | | |
|----------|-----------------|--------------------|--------------------|----------------|
| | | AUDIO/DISPLAY UNIT | DIGITAL/SERVO UNIT | SERVO AMP UNIT |
| DCD-S10 | Asia | 1U-2796M | 1U-2797M | 1U-2836A |
| | Europe | 1U-2796A | 1U-2798 | 1U-2836A |
| | U.S.A. & Canada | 1U-2796A | 1U-2798D | 1U-2836A |
| DCD-3000 | Multi-Voltage | 1U-2796 | 1U-2798B | 1U-2836A |
| | Europe | 1U-2796 | 1U-2798 | 1U-2836A |
| | U.S.A. & Canada | 1U-2796 | 1U-2798D | 1U-2836A |



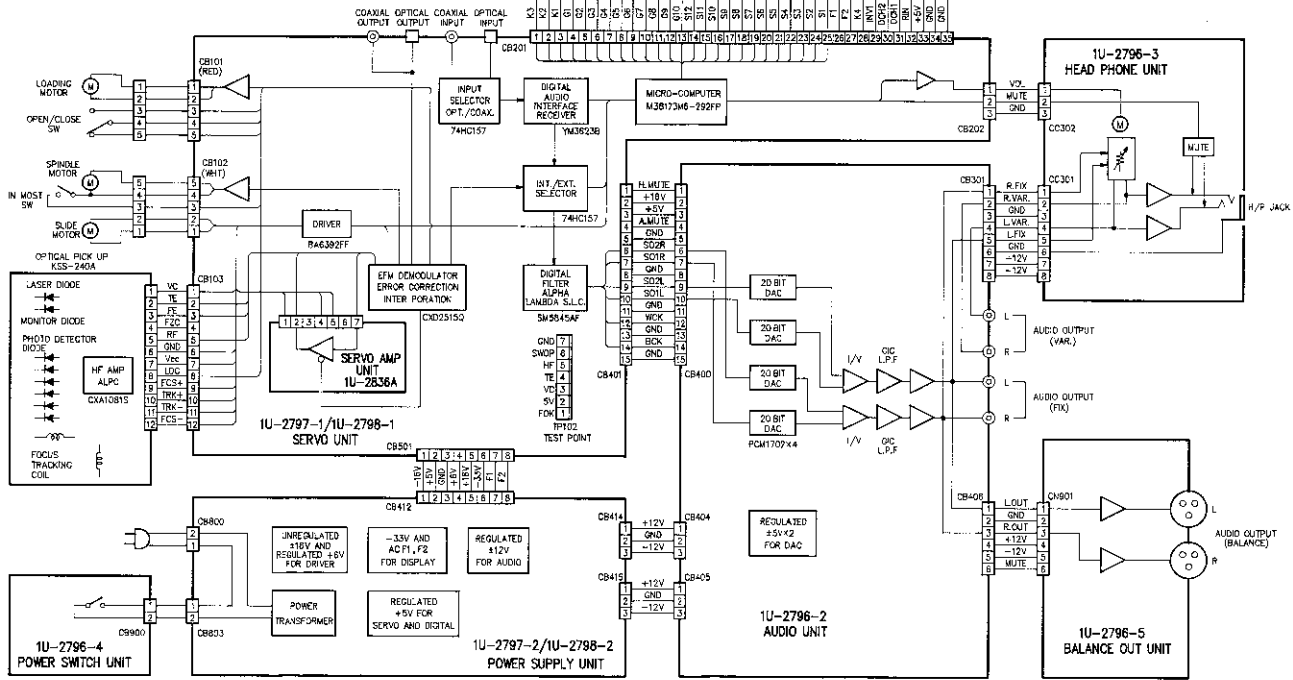
A

B

C

D

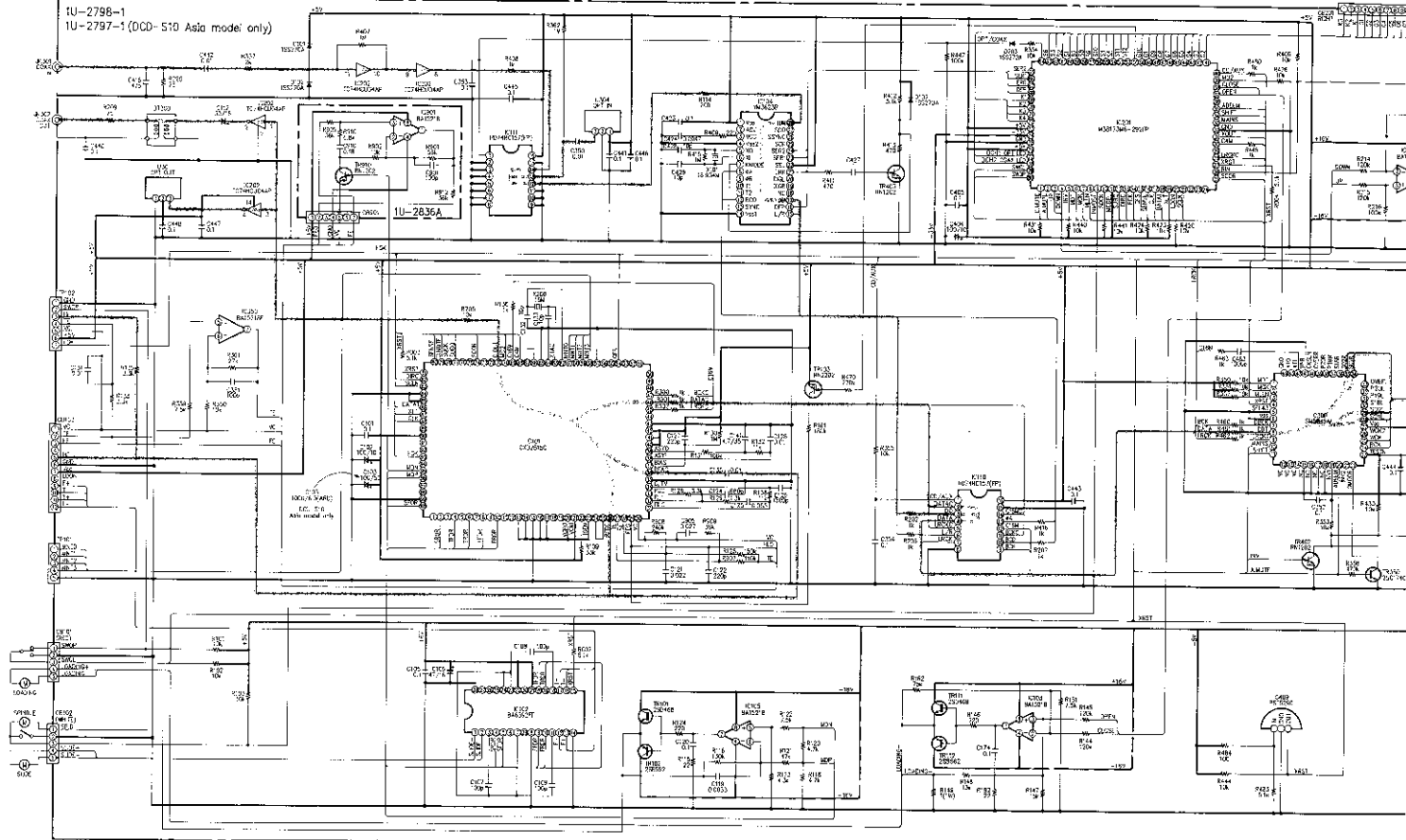
E



SCHEMATIC DIAGRAM-1/3

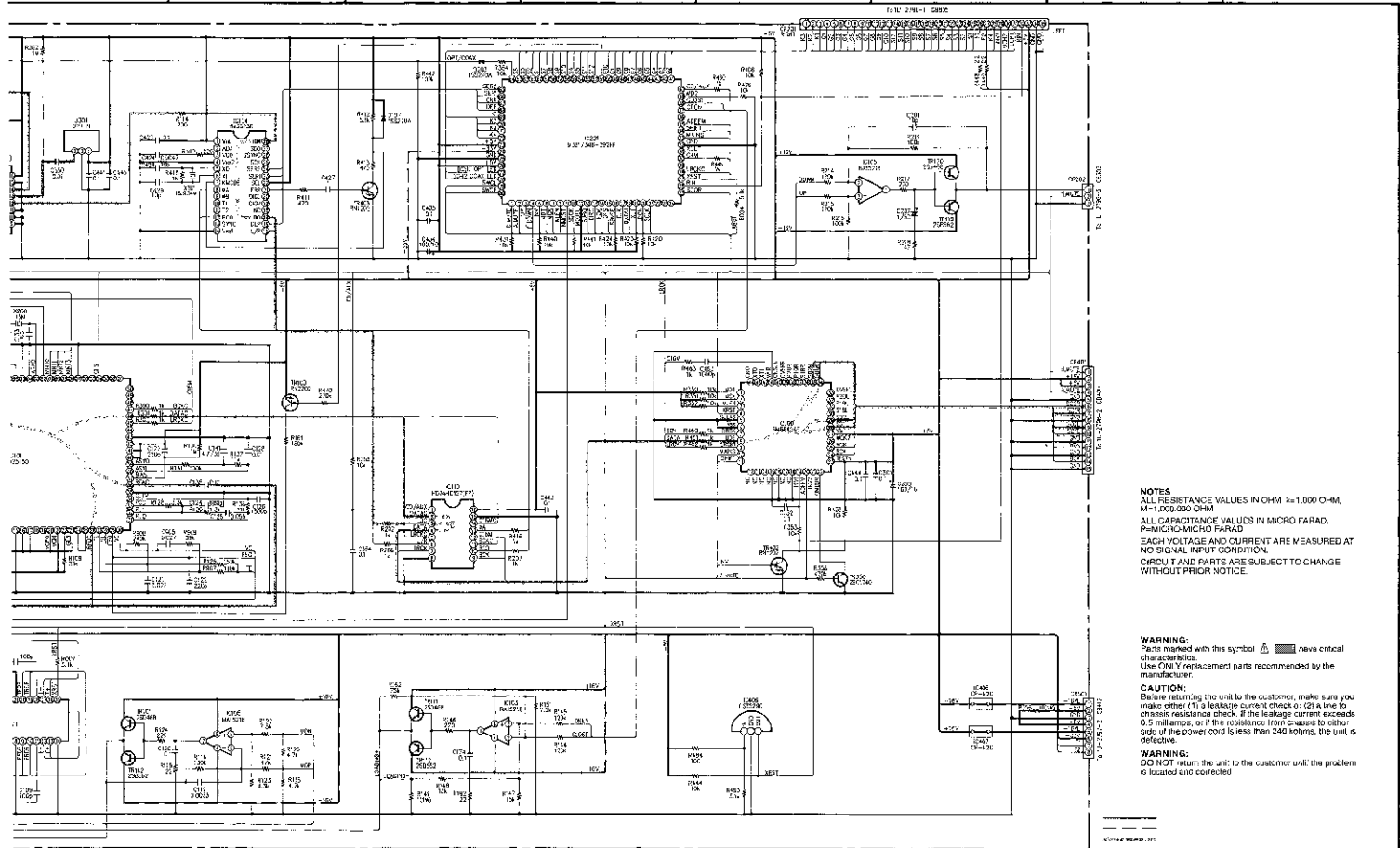
1 2 3 4 5 6 7 8

1U-2798-1
1U-2797-1 (DCD-510 Asia mode only)




4 5 6 7 8 9 10 11

FIG. 2769-1 (28X)



NOTES
 ALL RESISTANCE VALUES IN OHM = 1,000 OHM,
 M = 1,000,000 OHM
 ALL CAPACITANCE VALUES IN MICRO FARAD,
 P = PICO-MICRO FARAD
 EACH VOLTAGE AND CURRENT ARE MEASURED AT
 NO SIGNAL INPUT CONDITION.
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE
 WITHOUT PRIOR NOTICE.

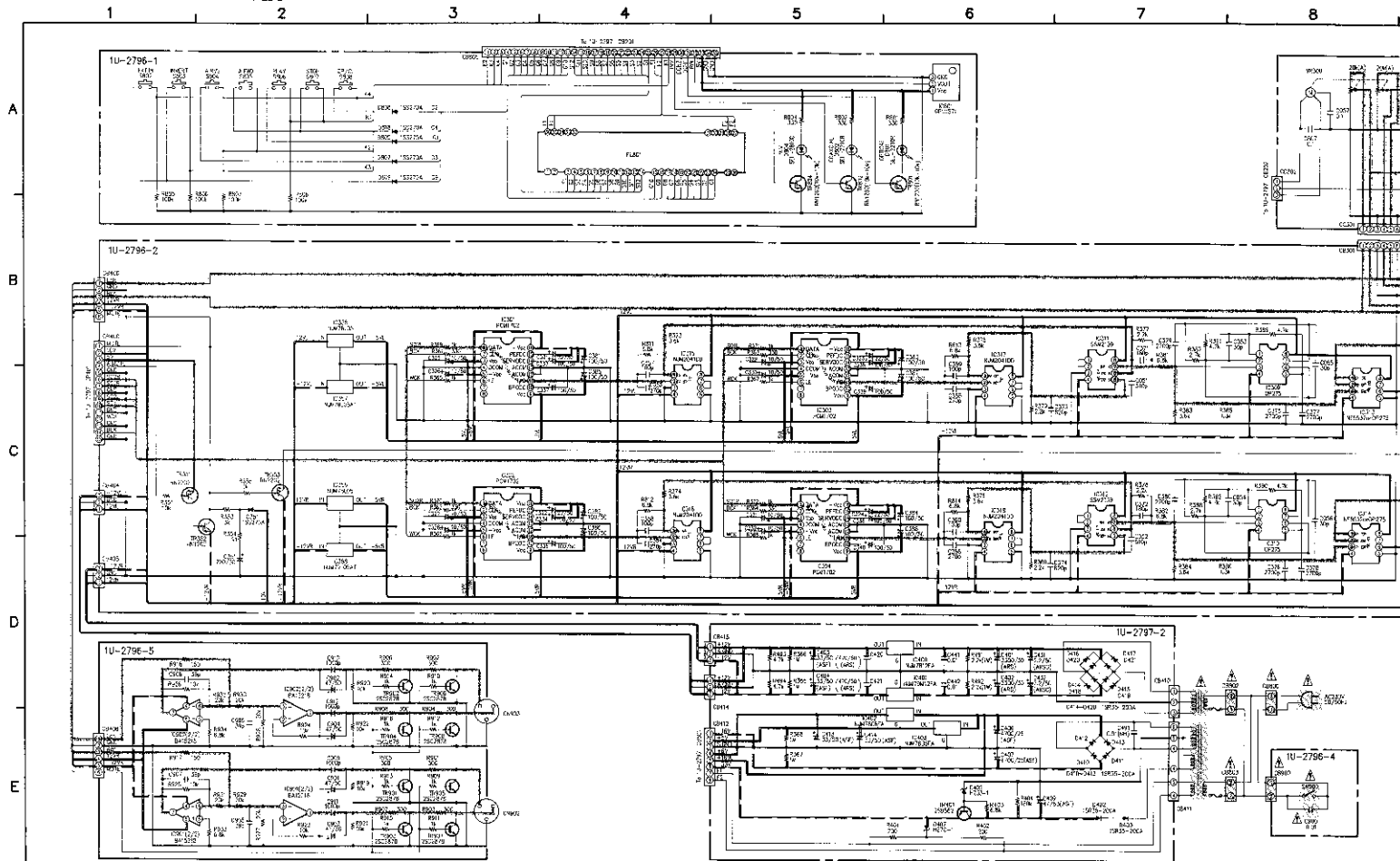
WARNING:
 Parts marked with this symbol  have critical characteristics.
 Use ONLY replacement parts recommended by the manufacturer.

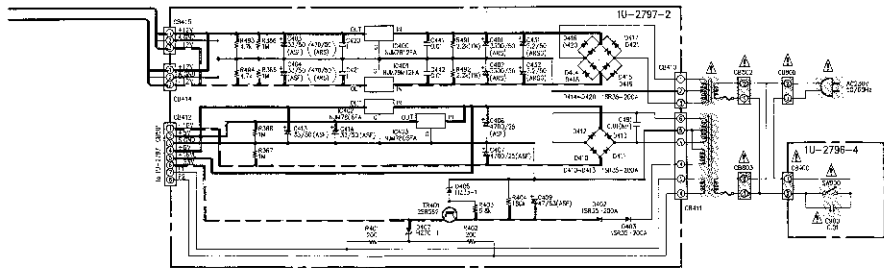
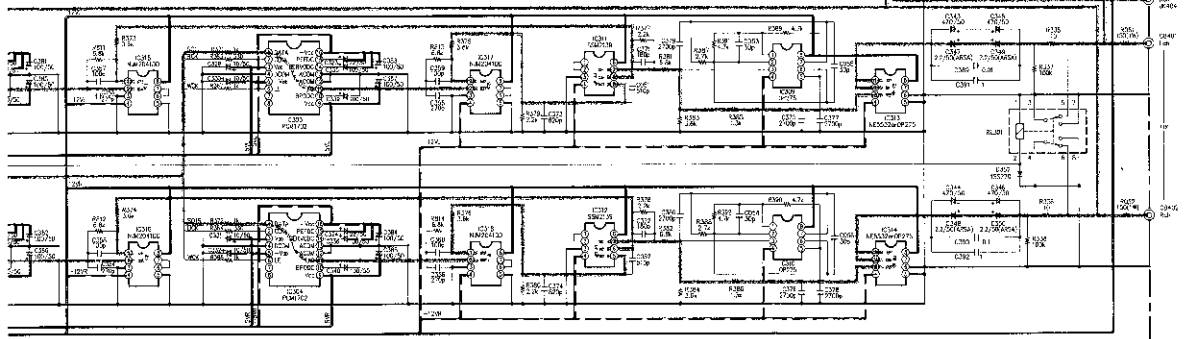
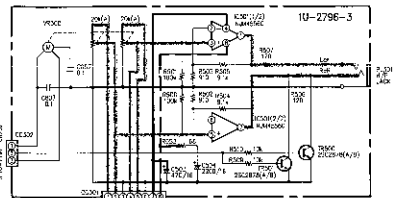
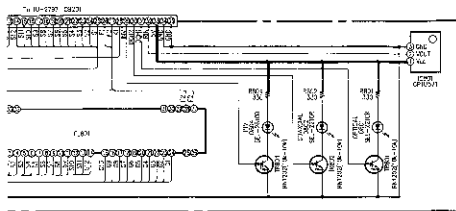
CAUTION:
 Before returning the unit to the customer, make sure you make other (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamperes, or if the resistance from chassis to either side of the power cord is less than 240 kohms, the unit is defective.

WARNING:
 DO NOT return the unit to the customer until the problem is located and corrected.


A
 B
 C
 D
 E

SCHEMATIC DIAGRAM-2/3





NOTES
 ALL RESISTANCE VALUES IN OHM >= 1,000 OHM,
 <= 100,000 OHM
 ALL CAPACITANCE VALUES IN MICRO-FARAD.
 P=MICRO-MICRO-FARAD
 EACH VOLTAGE AND CURRENT ARE MEASURED AT
 NO SIGNAL INPUT CONDITION.
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE
 WITHOUT PRIOR NOTICE

WARNING:
 Parts marked with this symbol  have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

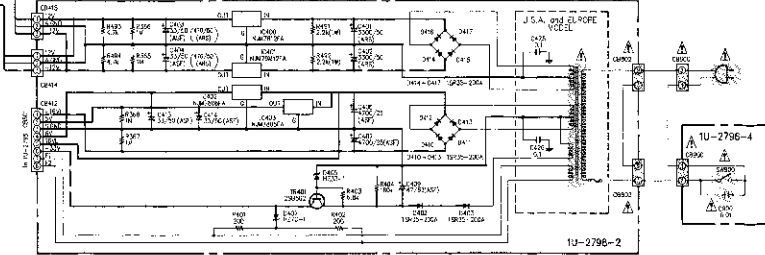
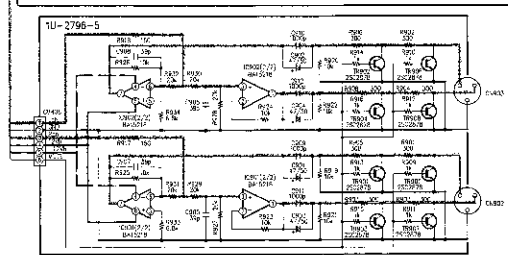
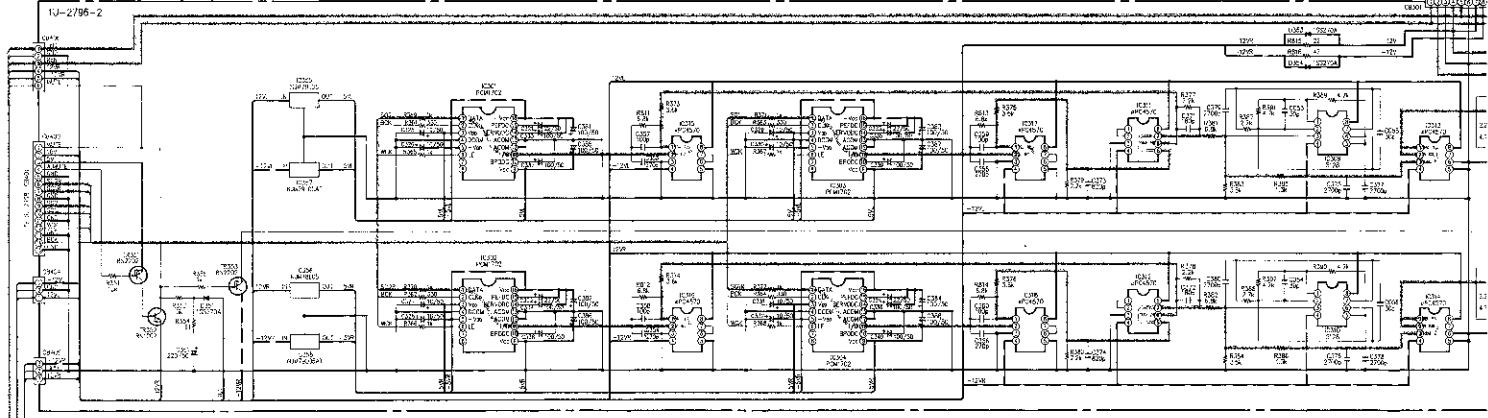
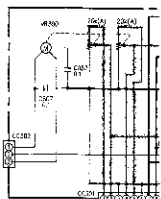
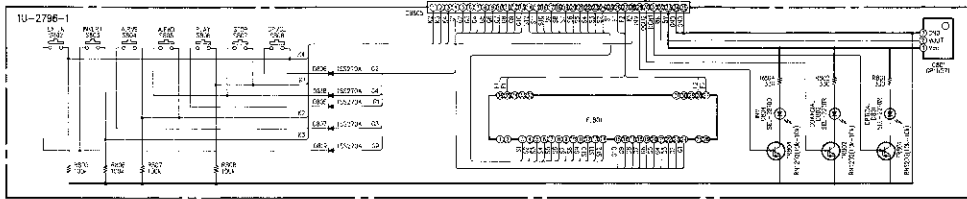
CAUTION:
 Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 millamps, or if the resistance from chassis to either side of the power cord is less than 250 kilohms, the unit is defective.

WARNING:
 DO NOT return the unit to the customer until the problem is located and corrected.

— 10 LINE
 --- 5 LINE
 - - - 500M. LINE

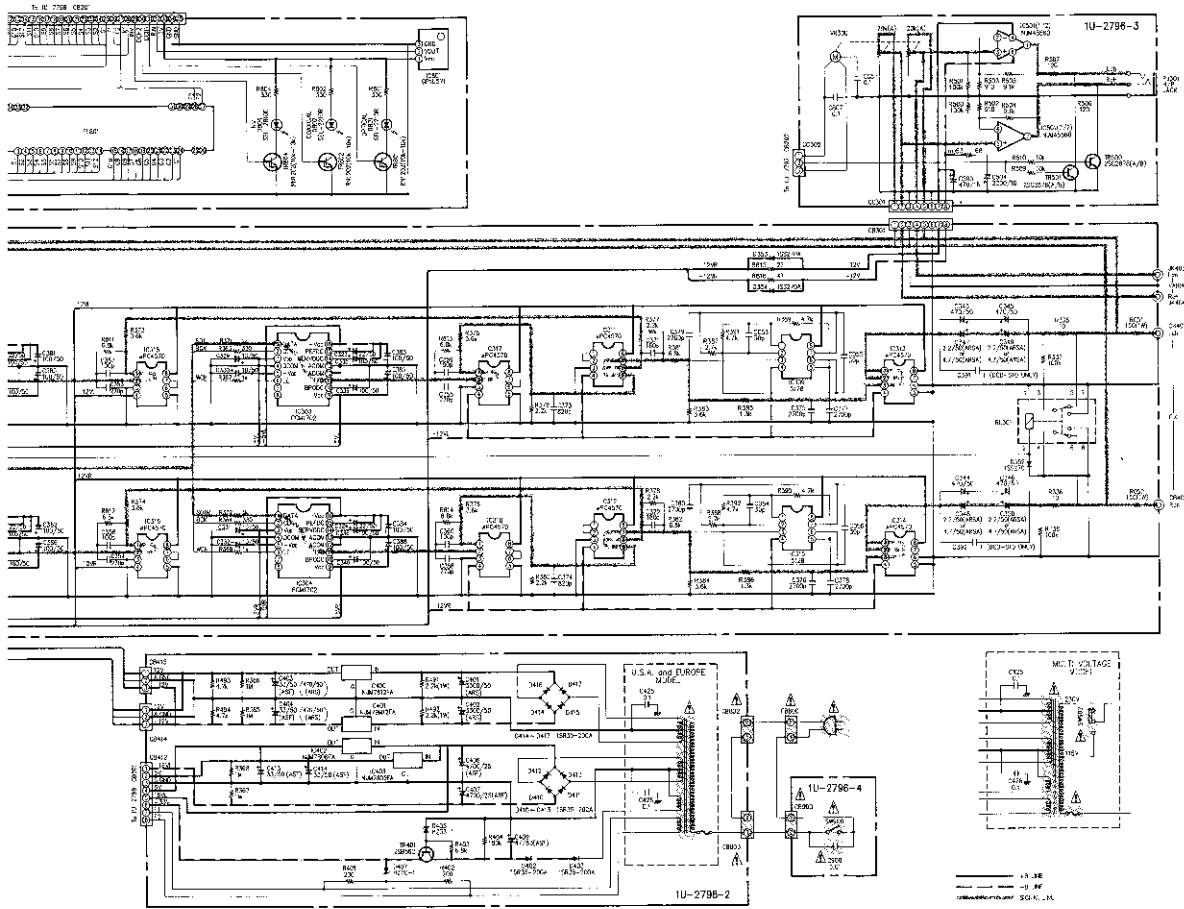
SCHEMATIC DIAGRAM-3/3

1 2 3 4 5 6 7 8



TU-2796-2

4 5 6 7 8 9 10 11



NOTES
 ALL RESISTANCE VALUES IN OHM, K-1,000 OHM,
 M-1,000,000 OHM
 ALL CAPACITANCE VALUES IN MICRO FARAD
 P=PICTO-MICRO FARAD
 EACH VOLTAGE AND CURRENT ARE MEASURED AT
 NO SIGNAL INPUT CONDITION.
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE
 WITHOUT NOTICE

WARNING:
 Parts marked with this symbol ▲ □ have critical characteristics.
 Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
 Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 mAamps, or if the response from chassis to either side of the power cord is less than 240 kilohms, the unit is defective.

WARNING:
 DO NOT return the unit to the customer until the problem is located and corrected.

A
 B
 C
 D
 E