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# CD-33

## OWNER'S MANUAL

## FEATURES

1. 19" rack mountable high performance dual CD player and separate 19" rack mountable dual controller.
2. A maximum  $\pm 12\%$  pitch adjustment is possible with the pitch adjustment fader ( $\pm 8\%$ ) and additional FINE mode position ( $\pm 4\%$ ). The FINE mode permits an additional  $\pm 4\%$  adjustment over the full travel of the pitch adjustment fader, making possible accurate matching of the beats between songs.
3. A maximum of 10 songs can be programmed by any combination of the players in PROGRAM mode.
4. The CD-33 is designed to memorize programs into 9 files (10 songs in each file).
5. The time elapsed, time remaining and total disc time remaining can be displayed in three different modes, facilitating song programming and accurate cueing of phrases as desired.
6. The time lag between starting operation and the beginning of the song is minimized by the high performance mechanism and BLANK PASS function. Also the CD-DJ2 is designed to skip non-signal intervals at the beginning of each song automatically minimizing the time lag between songs.
7. Pick up skipping is prevented by the use of the world's first double suspension system. This shock/vibration proof design isolates the player from low frequency vibrations.

8. A special internal service mode displays an error code on the digital display to allow for quick analysis and correction by the user.
9. Removable feet allow for table top use or standard 19" rack mounting.

## **IMPORTANT**

To prevent electric shock, do not remove cover. No user serviceable parts, refer servicing to qualified personnel.

Always disconnect all the equipment from the main supply when disconnecting the signal leads.

The power cord should be connected last. Make sure that the power switch is off when connecting. Disconnect from AC supply when equipment is not used for an extended period of time.

## **WARRANTY**

Warranty might vary from country to country. Each distributor has their own warranty system in accordance with the country or state regulations.

## **PRECAUTIONS**

Please read these instructions before operating this unit.

### **\* Humidity and Dust**

Avoid use where there is high humidity and dust which may cause damage to internal parts.

### **\* Temperature**

Avoid use in hot (over  $35^{\circ}\text{C}$ ) and cold (below  $5^{\circ}\text{C}$ ) locations. Keep the unit away from extreme direct heat such as direct sunlight, heating radiators, or closed vehicles.

### **\* KEEP AWAY FROM LIQUIDS.**

Do not stand vessels containing liquids on or near the equipment. If liquid does happen to enter equipment, disconnect the power cord from the power outlet immediately.



## CAUTION

**RISK OF ELECTRIC SHOCK  
DO NOT OPEN**



**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 arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "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 to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## WARNING

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,  
DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

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**CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE  
OF PLUG TO WIDE SLOT, FULLY INSERT.**

**ATTENTION: POUR ÉVITER LES CHOCs ÉLECTRIQUES, INTRODUIRE  
LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPON-  
DANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.**

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### LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

**"CAUTION—USE OF CONTROLS OR ADJUSTMENTS OR PERFOR-  
MANCE OF PROCEDURE OTHER THAN THOSE SPECIFIED  
HEREIN MAY RESULT IN HAZARDOUS RADIATION  
EXPOSURE."**

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### NOTE TO CATV SYSTEM INSTALLER:

This reminder is provided to call the CATV (Cable - TV) system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specified that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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# IMPORTANT SAFEGUARDS

## READ BEFORE OPERATING EQUIPMENT

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

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. **Cleaning** — Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. **Attachments** — Do not use attachments not recommended by the video product manufacturer as they may cause hazards.
7. **Water and Moisture** — Do not use this video product near water — for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. **Accessories** — Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. **Ventilation** — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface. This video product should never be placed near or over a radiator or heat register. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. **Power Sources** — This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.

11. **Grounding or Polarization** — This video product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.



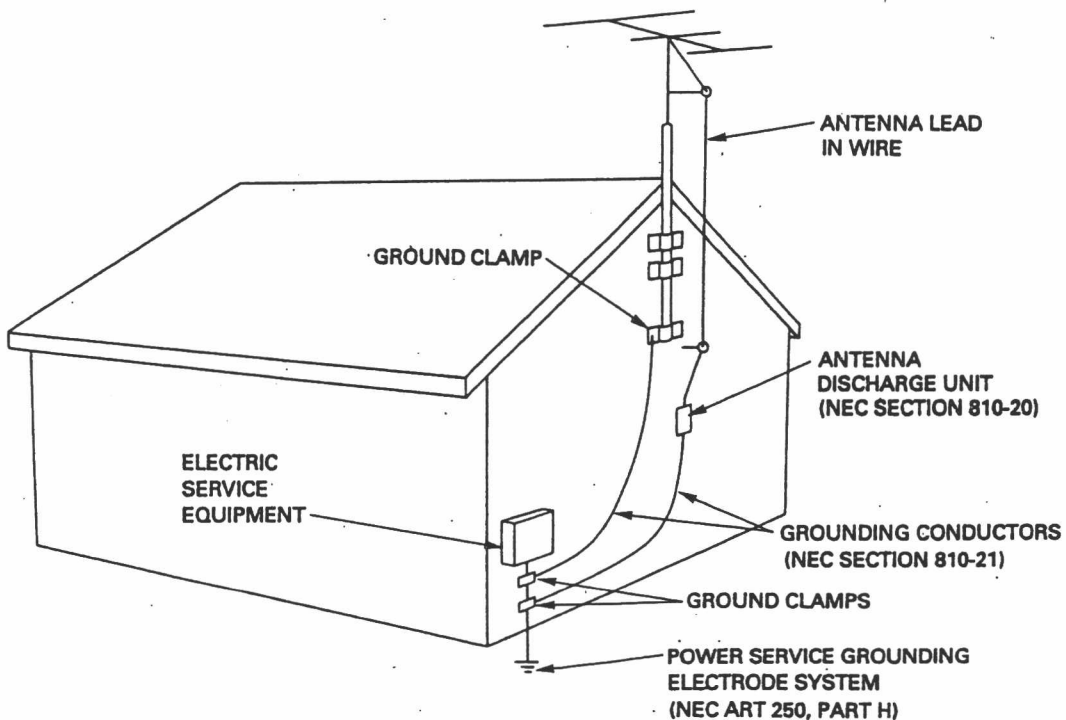
AC POLARIZED PLUG

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.
13. **Protective Attachment Plug** — The appliance is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.
14. **Outdoor Antenna Grounding** — If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and buildup static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect 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 1.
15. **Lightning** — For added protection for this video product receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.
16. **Power Lines** — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
17. **Overloading** — Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
18. **Object and Liquid Entry** — Never push objects of any kind into this video product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product.

19. Servicing — Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
20. Damage Requiring Service — Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - a. When the power-supply cord or plug is damaged.
  - b. If liquid has been spilled, or objects have fallen into the video product.
  - c. If the video product has been exposed to rain or water.
  - d. If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
  - e. If the video product has been dropped or the cabinet has been damaged.
  - f. When the video product exhibits a distinct change in performance — this indicates a need for service.
21. Replacement Parts — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
22. Safety Check — Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.
23. Carts and Stands — The appliance should be used only with a cart or stand that is recommended by the manufacturer.
24. 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.

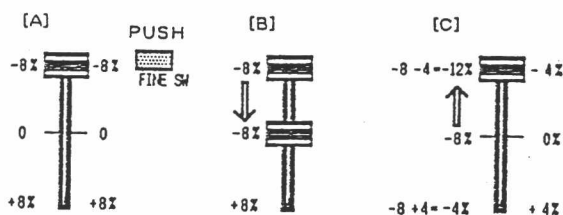


**FIGURE 1**  
**EXAMPLE OF ANTENNA GROUNDING ACCORDING TO**  
**NATIONAL ELECTRICAL CODE INSTRUCTIONS**  
**CONTAINED IN ARTICLE 810-"RADIO AND TELEVISION EQUIPMENT"**



**NEC - NATIONAL ELECTRICAL CODE**





## ⑥ STICK CONTROLLER

With this STICK CONTROLLER, three functions are controlled.

- a. Pitch bend function (stick up: (-) direction, stick down: (+) direction).

The stick is moved up or down to momentarily change the pitch speed. When the stick is in the center position, the player returns to the pitch which is set by (5) PITCH FADER. This allows the DJ to sync or adjust the music tempo smoothly.

NOTE; When the pitch is set at either maximum position ( $\pm 8\%$ ) with (5) PITCH FADER, the pitch bend will function in the opposite direction only.

- b. Scan function (stick left: reverse direction, stick right: forward direction).

The stick is moved left or right to change the playback speed from 4 times to 16 times normal speed. It is used for searching for an approximate point, when the unit is in PLAY mode.

- c. Search function (stick left: reverse direction, stick right: forward direction).

The stick is moved left or right to search in 1-70 frame units when the unit is in PAUSE mode or MONITOR mode.

NOTE; The data of CD is written with 75 frame per second.

NOTE; With the STICK CONTROLLER, the disc can be searched/scanned from a minimum of 1 frame (0.013 sec.) unit to a maximum of 16 times normal speed permitting quick and accurate cuing. Also, PITCH BEND function permits instant pitch change.

- ⑦ Select buttons "A, B, 1 thru 0" - used to program the player memory for playback by pressing either the A or B button and then assigning the track number (order of songs) by pressing any of the 10 number buttons in the sequence desired.

Example:

To assign the third track of a disc in A player into the memory, press A and 3 together.

Additional selections (up to 10 total) can be programmed in the same manner.

- ⑧ Function button, " $\gg|$ " - used for skipping to the starting point of the next track number of times pressed determines number of tracks skipped ahead.

- ⑨ Function button, " $| \ll$ " - used for skipping backwards to the starting point of the current track (one press). Pressing twice returns to the starting point of the previous track.

- ⑩ "DIS A", "DIS B" function buttons - used to change the display mode of the corresponding player.

A) "Track R"emaining - remaining time of current track (unit turns on in this mode).

B) "Track E"lapsed - Time of play current track to current point.

C) "Total R"emaining - remaining time of total disc. Note-corresponding LED will light

for mode selected. Digital time and bar graph display will also change to correspond.

- ⑪ "CONT" function button - used to allow player to continue (resume) regular operation.

- ⑫ "PGM" function button - used to enter program mode. The CD-33 can be programmed for a maximum of 10 tracks with a combination of either player A or B. (See SELECT button, 10 numbered buttons for operation.)

- ⑬ "CHECK" button - used to check the contents of the program. The order of the program selections (up to 10) will be flashed on the digital display in 2 sec intervals when the button is pressed.

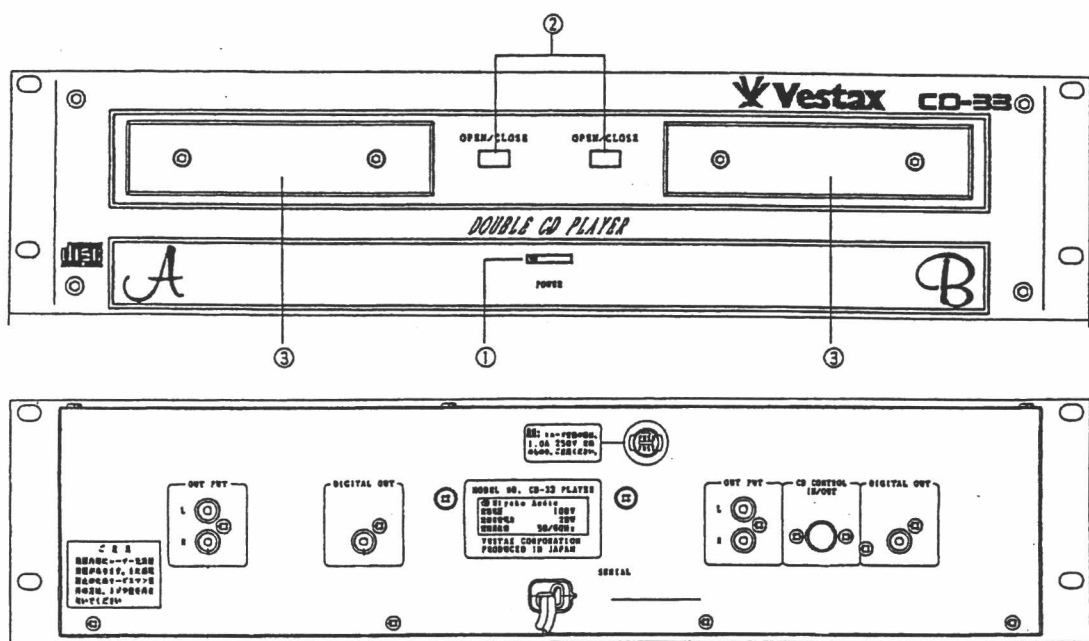
- ⑭ "MEMORY" button - used to store different memory programs by file number - up to a maximum of 9 files.

Note-memory will be lost if power is disconnected for more than 1 week. Turn power on occasionally to keep memory

activated.

- ⑮ "RECALL" button-  
used to check the contents of the  
file memory. The order of the  
file memory (up to 9 files) will  
be available when the RECALL  
button is pressed. The selected  
file can be reviewed as in the  
PROGRAM memory. See OPERATIONS  
for procedure.

- ⑯ TRACK ELAPSED LED.  
⑰ TRACK REMAIN LED.  
⑱ TOTAL REMAIN LED.  
⑲ CONTINUE LED.  
⑳ PROGRAM LED.  
㉑ FINE LED.  
㉒ PLAYER LED. A. B.  
㉓ DISPLAY  
㉔ TRACK REMAIN BAR LED.  
㉕ CONTROL IN/OUT A. B.



#### PLAYER-

- 1) Main "POWER" switch-  
used to switch power for both  
player and controller units.
- 2) "OPEN/CLOSE" button-  
used to open and close corre-  
sponding disc tray for players  
A and B.
- 3) "A, B" disc tray-  
holds CD disc in corresponding  
player.



## OPERATION

### 1) *PLAYBACK-*

(Same for player A or B)

- a) Turn on by pressing the main POWER switch.
- b) Press OPEN/CLOSE button. Tray will slide open.
- c) Insert a CD disc (with disc label up) into tray.
- d) Close the disc tray by pressing the OPEN/CLOSE button again, or the STOP button, or the PLAY button.  
(The CD disc starts spinning and the laser head reads the disc table of contents and stops at the beginning of the first track. If the PLAY button was pressed, it begins to play back immediately).
- e) Press PLAY button. (Starts playback from the first track immediately. Remaining time of the playing track will be shown on the digital display in minutes and seconds.)
- f) Press STOP button to stop playback at any time. Press PLAY button again to restart playback.
- g) The player stops automatically when playback ends at the end of a disc.
- h) Press the OPEN/CLOSE button, after playback ends, to remove the discs.

### 2) *TRACK ACCESS PLAY-*

to assign the song number and start playback.

- a) Assign the player to be used with the player select button A or B.
- b) Assign the order of tracks with the numerical select buttons (up to 10 songs). Order will be shown in the digital display. Player A or B must be entered with each track number.
- c) Press PLAY button.

### 3) *SEARCHING-*

to search for a desired playback point with the SCAN dial.

- a) Press PLAY button.
- b) Search for the desired playback track with the SCAN dial.  
Turning clockwise scans forward, turning counterclockwise scans in reverse. Scanning can be done at 2 to 16 times normal speed in either direction, depending on the rotation of the SCAN dial.

Note-SCAN search may also be done in the STOP mode.

- c) Searching can also be accomplished by spinning the JOG dial in the appropriate direction while watching the digital display and listening to the playback sound.  
Jogging can be done from 1 to 30 frames in either direction depending on the rotation of the JOG dial. MONITOR button must be pressed before JOG dial is operational. (Player LED flashes in the monitoring mode when player is in the PLAY function). Jogging is normally done in the STOP mode.

Note-MONITOR button must be pressed for JOG dial to operate.

- d) Press PLAY button. Playback starts immediately.

#### 4) PROGRAM MODE-

for programming the memory for playback from both players in any combination up to 10 songs.

- a) Press PGM button. Program LED flashes and is shown in the digital display on A side.
- b) Assign the desired player to be programmed by pressing A or B select buttons.
- c) Assign the desired track to be programmed by pressing the appropriate numerical select buttons.
- d) By repeating steps b) and c), up to 10 songs can be programmed by using a combination of A and B and numerical buttons.
- e) Playback will begin immediately when the PLAY button is pressed on the correct player for the first track selection in the program order.
- f) Press CHECK button when checking the contents of the program. The order of the programmed songs will be flashed on the digital display in two second intervals.
- g) Program mode will be released when CONT (continue) button is pressed or disc tray OPEN/CLOSE is pressed.
- h) Correction to the program entry can be made by pressing the STOP button when the wrong track or player button is pressed. Then re-enter program mode by pressing CONT (continue) button. Then re-enter the correct track or player button. Complete the rest of the programming.
- i) Press PLAY button-The program will be played back as programmed in consecutive order. The PLAY button of the player (A) or (B) for the first selected track in the program, must be pressed in order to start playback at the beginning of the program.

KEY OPERATION			DISPLAY
1st	A 2	PLAYER A TRACK 2	2 P-01
2nd	B 6	PLAYER B TRACK 6	6 P-02
3rd	A 8	PLAYER A TRACK 8	8 P-03
	*	*	*
	*	*	*
10th	B 3	PLAYER B TRACK 3	10 P-10

#### 5) MEMORY MODE-

for programming the memory to hold programs of up to 10 songs in up to 9 files (total 90 selections).

- a) To program memory:
  - 1) Follow steps a) thru d) of PROGRAM MODE instructions.
  - 2) Press MEMORY button when the individual program is completed. "F" mark will start flashing on the digital display for 10 seconds.
  - 3) Assign a file number from 1 thru 9, using the numerical select buttons while the "F" is flashing (within 10 seconds). The memory mode is released automatically when the "F" flashing stops. The program is now filed in the memory in the file number you have selected.
- b) Follow steps 1 thru 3 to add additional files (up to 9 total). Blank cards are provided for you to note title of discs, side of player used and track information so that you can reload the player correctly for each program playback.
- c) To recall the file:
  - 1) Press RECALL button. The "F"

mark will begin flashing.

- 2) Input the assigned file number from 1 to 9 with the numerical select buttons while the "F" mark is flashing. The desired file will be recalled for use when the flashing stops. Then press CHECK to have the display flash each selection in order of the program. The unit will automatically return to the beginning of the program selected. Remember to place the correct disc in the correct side of the player for correct playback of the memory.

Note-Memory will be lost if power is disconnected for more than one week. Turn power on occasionally to keep memory activated.

#### 6) *MONITOR CLUE-*

##### *- Multiple Discs-*

monitor cuing can be done between player A and B (separate discs are required).

- a) Begin normal playback of one player.
- b) Disc in second player can be "cued up" by pressing the "▶▶|" (NEXT) function button on the second player. One push will cue disc to start of next song, two pushes to start of two songs ahead, etc.
- c) Disc in second player can be "cued back" by pressing the "|◀◀" (PREVIOUS) function button on the second player. One push will cue disc to start of current song, two pushes to start of previous song, etc.
- d) Disc on second player can be searched to a specific spot in a song by using the combination of MONITOR switch, SCAN dial or JOG dial (of the second player) while the original player is in normal playback operation

(live).

- e) NOTE-All cue operations must be done with controls of player not in playback mode. Otherwise your live on air performance will be effected. Monitored (cue) signal will be heard thru the headphone monitor of your mixer.

#### SERVICE MODE-

The CD- 33 is programmed with an internal "sense and diagnose system. "If a service problem is sensed, then the user will be advised by an error code shown on the digital display.

Following is a list of the error codes possible:

##### Detail of Service

<u>Display</u>	<u>Problem</u>	<u>Action Required</u>
E-01	Focus error-pick up cannot read disc information:	Check for correct insertion of disc in tray (insert label up).
E-02	Table of contents read error	Check disc for scratches, dirt, fingerprints on the disc surface towards the inside diameter.
E-03	Pick up limit error-occurred in the operating position	Recheck for correct loading of disc by opening/closing of tray.
NOTE: If this does not clear the problem, then there is a possible mechanical malfunction. Return the unit to the nearest service center for repair.		
E-04	Search error-cannot locate track assign	Check the disc for scratches, dirt, fingerprints on the disc surface.

#### 7) *BLANK PASS function-*

the CD- 33 is designed to minimize the time lag between starting operation and the

beginning of the song, as well as the between songs non-signal interval. These non-signal times may be 3 to 5 seconds in duration. However, in a few cases, on certain discs, the CD-33 will not skip the entire interval. For these special cases, the user will have to select the starting point by use of the MONITOR switch and JOG dial.

### CD-33 SPECIFICATIONS

Type	: Twin Mechanism Compact Disc Player System
Available Disc	: Standard Compact Disc 12cm and 8cm
<b>TRANSPORT PLAYER</b>	
Quantization	: 16bit linear
Sampling Frequency	: 44.1KHz at normal speed
Error Correcting System	: CIRC
Harmonic Distortion	: Less than 0.03%
Frequency Response	: 10Hz~20KHz $\pm 1$ dB
Signal To Noise Ratio	: More than 96dB
WOW-Flutter	: Less than measured limit
Mechanism Mount System	: Double shock absorber (rubber $\times 4$ , spring+rubber $\times 4$ )
Output Level	: 2.0V (RMS)
<b>CONTROL UNIT</b>	
Tune Select	: 10 Key switch
Stick Control	: Scan ; $\times 4 \sim 16$ times Search ; 1 Flame~70 Flames Pitch Band ; $\pm 8\%$
Pitch Control	: $\pm 12\%$
Program Memory	: Up to 9 program files of 10 selections
<b>ACCESSORIES</b>	
CD Control cable	: 2.5m
Audio cable	: 1.5m $\times$ 2 pcs
Option parts	: Control Cable ; 5m
Dimensions (W $\times$ H $\times$ D) Weight	: Transport Player 483 $\times$ 111 $\times$ 233mm 19" $\times$ 4 3/8" $\times$ 9 1/4" 13.3lbs. 6.0kgms.
	Control Unit 488 $\times$ 88 $\times$ 130mm 19" $\times$ 3 1/2" $\times$ 5 1/8" 5.5lbs. 2.5kgms.



2-37-1, KAMIUMA, SETAGAYA-KU  
TOKYO, 154 JAPAN  
TEL: 03 (3412) 7011 FAX: 03 (3412) 7013