



Professional Dual CD Player

CDX-15

OWNER'S MANUAL

VESTAX CORPORATION

2-37-1 Kamiyama, Setagaya-ku, Tokyo 154-0011 Japan
Phone:03-3412-7011 Fax:03-3412-7013

VESTAX America

2750C 29th Ave Suite. 115 Hollywood. FL33020
Phone:303-766-5269 Fax:303-766-2196
E-mail:vestax-corporation@msn.com

VESTAX (Europe)Ltd.

18 st.Christophers Road, Haslemere,Surrey GU 27 1 DQ England.
Phone:(0)1428-653117 Fax:(0)1428-661021

CONGRATULATIONS!

Thank you for purchasing the VESTAX CDX-15, DUAL CD PLAYER. Please read this owner's manual carefully before you start to use the machine, so that you will fully understand all of the special features and enjoy the full use of the product.

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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.

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

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

ATTENTION : POUR EVITER LES CHOCs ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the Instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

NOTE

Changes or modifications may cause this unit to fail to comply with Part 15 of the FCC Rules and may void the user's authority to operate the equipment.

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

IMPORTANT

This apparatus is fitted with an approved moulded 13 Amp plug. To change a fuse in this type of plug proceed as follows:

1. Remove fuse cover and fuse.
2. Fix new fuse which should be a BS1362 5A. A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place. If the mains plug contains a fuse, this should have a value of 5A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

NOTE

The severed plug must be destroyed to avoid a possible shock hazard it be inserted into a 13A socket elsewhere.

**CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE KLASS 1
LASERAPPARAT**

HOW TO CONNECT A PLUG

The wires in the mains lead are coloured in accordance with the following code:

BLUE-"NEUTRAL"("N")

BROWN-"LIVE"("L")

1. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.
2. The BROWN wire must be connected to the terminal which is marked with the letter "L" or coloured RED.
3. Do not connect either wires to the earth terminal in the plug which is marked by the letter "E" or by the safety earth symbol or coloured green or green-and-yellow.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead-not simply over the two wires.

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 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 product manufacturer as they may cause hazards.
7. Water and Moisture-Do not use this 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 product on an unstable cart, stand, tripod, or table. The 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 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 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 product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This 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 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.
11. Grounding or Polarization-This 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 safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If this should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the 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. Lightning-For added protection for this product during lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges.
15. Overloading-Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

16. Object and Liquid Entry-Never push objects of any kind into this 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 product.
17. Servicing-Do not attempt to service product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified personnel.
18. Damage Requiring Service-Unplug this 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 product.
 - c. If the product has been exposed to rain or water.
 - d. If the 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 product to its normal operation.
 - e. If the product has been dropped or cabinet has been damaged.
 - f. When the product exhibits a distinct change in performance-this indicates need for service.
19. 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 parts. Unauthorized substitutions may result in fire, electric shock or other hazards.
20. Safety Check-Upon completion of any service or repairs to product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
21. Carts and Stands-The appliance should be used only with a cart stand that is recommended by manufacturer.
22. 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.



FEATURES

The combination of a 10 second buffer memory and the shockproof mechanism support system prevents the CDX-15 from skipping caused by physical and acoustic vibration. This feature enables the CDX-15 to be used in any situation, such as professional, club or mobile application.

CD mixing can be done without an external mixer by using the built-in crossfader. The CD signal can be monitored through headphones without reproduction from the Master output, by using the monitor select switch.²⁰

Last stop position can be recalled instantly for re-play with the Cue button.

+/-10% pitch control fader is provided for quick and accurate beat matching.

Dual function joystick is provided for easy cueing and pitch bending.

Single / All repeat switch enables repeat play of either one song or the whole CD. Top loading type dual CD Player system features combined high performance CD Players and controllers.

BEFORE USE

Notes on the Compact Disc (CD)

The surface which is glossy like a rainbow is the front side of the CD, and the surface where the label information is printed is the back side.

Unlike conventional analog disk turntables, the CD player reads information from the disc by applying laser beam, in place of a stylus, on the front surface. Consequently, the performance of CD discs will not degrade after repeated use like conventional analog disks.

Handle the CD disc carefully so as not to damage the front surface.

To maintain the CD disc flawless, do not place it in the following locations.

In a place subject to direct sunlight or near a heat source such as a room heater.

In a place subject to excessive moisture or dirt.

In a place which may be subject to rain, for example near a window.

Keep the disc surface always clean.

UP to about 6 billion items of data are recorded on the Cd disc surface. When cleaning the disc surface, always use a specialized CD cleaner product and wipe in the direction as shown below.



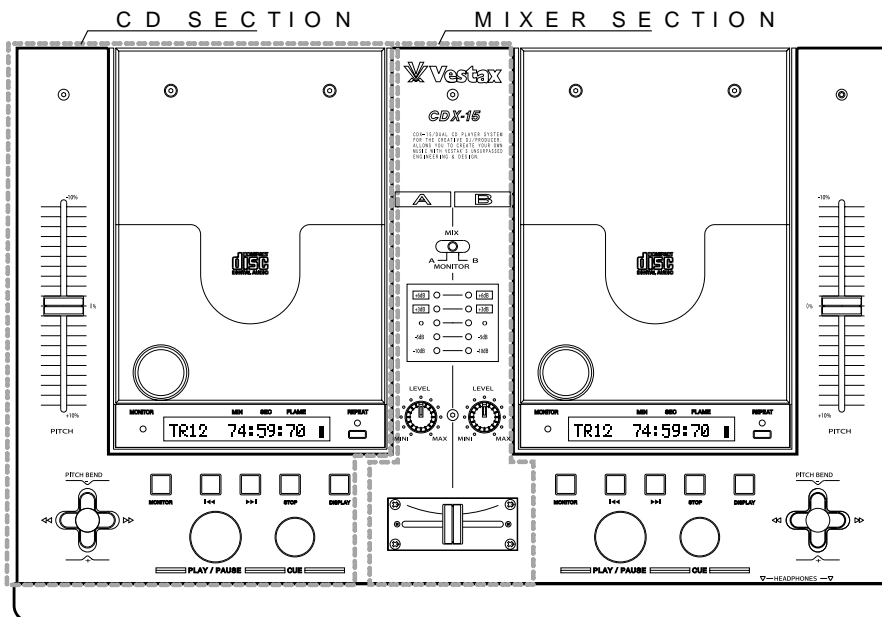
Wipe in the radial direction.



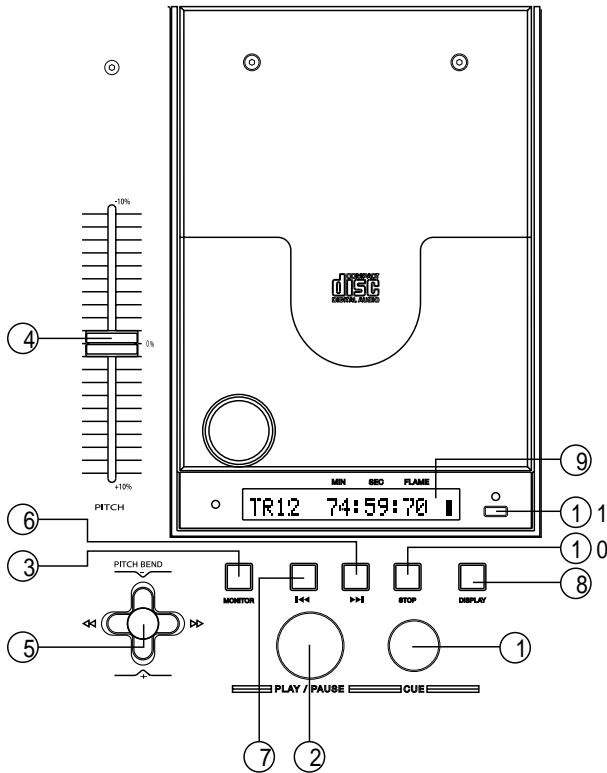
Do not wipe in the circumference direction.

Never use record cleaner designed for conventional analog disks, for this may degrade the CD disc surface. Always store disc properly in the case.

FUNCTIONS



CD SECTION



PITCH ADJUSTMENT FADER

Used to adjust the play back pitch (speed) by +/-10% to match the tempo of the music.

CUE BUTTON

The last pause position is always memorised and can be called up by pressing cue button. This function is useful for instant cueing, the same position can be recalled and played back with a single quick action.

Memory of the cue point will be lost or reset when any of the following operations are done.

- [1] Power is turned off.
- [2] The CD is paused and played another position. This position will then be memorised as the new cue point.
- [3] The STOP button is pressed.
- [4] The CD cover is opened.

PLAY/PAUSE BUTTON

This button is used to start and pause the CD. When the CD is left in pause mode for more than ten minutes, the CD mechanism is automatically set to STANDBY MODE and the CD stops spinning. When the PLAY/PAUSE button is pressed in STANDBY MODE, the CD mechanism is reset to PAUSE mode at the last CUE point if the cue point has been set previously, or at the starting position of the first song if the cue point has not been set.

NOTE

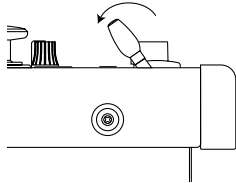
When the CDX-15 is set to PAUSE with monitor mode on, it generates the loop sound between the paused position and four frames before the paused position.

STICK CONTROLLER

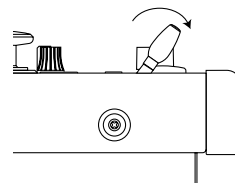
The following three functions can be controlled with STICK CONTROLLER,

[1] Pitch bend function

The play back speed can be increased or decreased momentary by moving the STICK CONTROLLER up or down. When the stick is set to centre position, the CDX-15 plays back at the pitch set by (4) PITCH ADJUSTMENT FADER. This unique function allows DJs to synchronise the music or adjust the tempo smoothly.



stick up The pitch (speed) decreases down to -20%



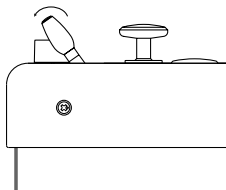
stick down The pitch (speed) increases up to +20%

NOTE

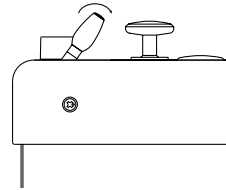
The adjustable range of the STICK CONTROLLER is +/-20% regardless the position of PITCH ADJUSTMENT FADER.

[2] Scan function

When the STICK CONTROLLER is moved to the left or right on PLAY BACK mode, the CDX-15 scans back or forward at 4 to 10 times (dependant on the angle) of the normal speed. It is used for searching for an approximate position to play back from.



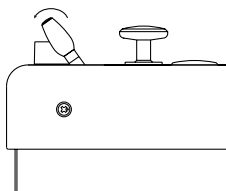
stick left Scans backwards.



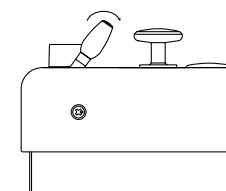
stick right Scans forward.

[3] Search function

The stick is moved left or right to search in 1-75 frame units in PAUSE mode or MONITOR mode.



stick left Scans backward.



stick right Scans forward.

The data on a CD is written at 75 frames per second.

NEXT BUTTON

Used for skipping forward to the starting point of the next track. The number of times pressed determines the number of tracks skipped ahead.

PREVIOUS BUTTON

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. Pressing additional times will return to the corresponding previous tracks.

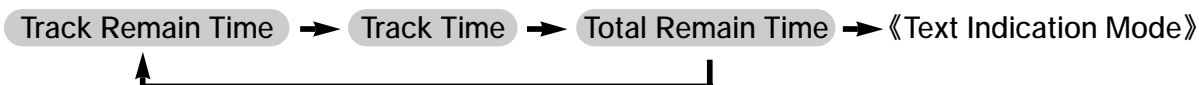
DISPLAY BUTTON

Pressing this button each time, the display changes the mode to the following figures.

[1] Time Indication Mode

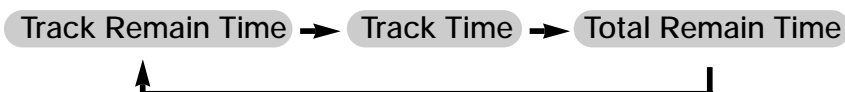
CD WITH TEXT DATA

When the DISPLAY BUTTON is pressed, the display mode changes from Total Remain Time to Track Time, then to Total Remain Time. When the button is pressed one more time from Total Remain Time, the mode is changed back to text Indication Mode.



CD WITHOUT TEXT DATA

When the CD has no text data, the display mode changes through only three modes, Track Remain Time, Track Time and Total Remain Time.



[2] Text Indication Mode

In Text Indication Mode, the LCD display shows the album information when the CD is in STOP or track information in PLAY or PAUSE. The information changes to the next (Track Title > Track Artist > Track Songwriter, etc.) every time the DISPLAY BUTTON is pressed. After the last information, the display mode returns to Track Remain Time.

TRACK information (in PLAY / PAUSE Mode)

Information	Indication on display
Track Tittle	" Track Title "
Track Artist	" Performer "
Track Songwriter	" Songwriter "
Track Composer	" Composer "
Track Arranger	" Arranger "
Track Message	" Message "

<< Track Remain Time >>

Album information (in STOP Mode)

Information	Indication on display
Album Tittle	" album Title "
Album Artist	" Performer "
Album Songwriter	" Songwriter "
Album Composer	" Composer "
Album Arranger	" Arranger "
Album Message	" Message "

<< Track Remain Time >>

DISPLAY

Indicates motion status, track numbers, times, frames, texts, shock-proof memory status.

[1] Indications of motion status

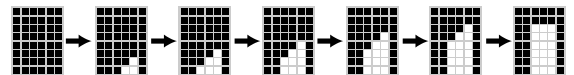
Indication on the display	Status Vestax CDX-15 on initial setting
Door Open	The door of CDX-15 is open
TOC Reading	TOC data is being read
No Disc	No CD is placed on the CD tray
TOC Error	TOC data cannot be read (bad quality CD)
Read Error	AUDIO data cannot be read (bad quality CD)
NO Audio Disk	CD has no AUDIO data

[2] TRACK NUMBER, TIME, FRAME

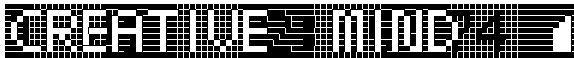


[4] Indication of shock proof memory status

The amount of the data in the shock-proof memory is shown as the fig.



[3] TEXT



The shock-proof memory data will be cleared when any of the following operations are done.

- STOP BUTTON is pressed
- The DOOR is opened
- FF/REW function is activated
- Search function is activated
- Setting MONITOR ON in PAUSE mode

The CDX-15 only stores the data into shock-proof memory in PLAY mode or PAUSE mode with MONITOR SWITCH off.

STOP BUTTON

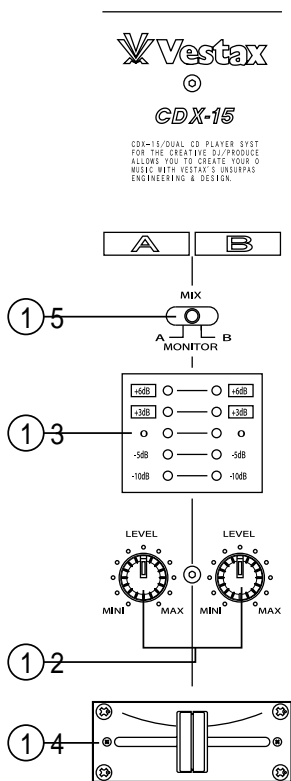
Used to stop the CD spinning.

REPEAT BUTTON

Used to activate REPEAT mode. All Repeat (play the next song and then repeat the whole CD) is selected by pressing this button once. Single Repeat (repeat current song only) is selected by pressing one more time. Repeat Off is selected by one more push, followed by All Repeat with another push.



MIXER SECTION



MONITOR SELECT SWITCH

Used to select the program channel for headphone monitoring. The signal of the selected PGM channel can be monitored from the left side of the headphones. The signal being output can be monitored from the right side. In the centre position, MIX is selected, the master signal can be monitored in stereo.

LEVEL VOLUME (PGM A, PGM B)

Used to adjust the input level of each program.

INPUT LEVEL METER

The LED level meters indicate the input signal level of each PGM channel.

Please adjust the input level so that 0dB LED lights on peak.

CROSSFADER

The signal of PGM1 can be monitored when the cross fader is set to the left side. The signal of PGM2 can be monitored when the cross fader is set to the right side. When the cross fader is set in the middle, both programs can be monitored.

The cross fader of the CDX-15 is a user-replaceable fader for ease of replacement. When the cross fader is worn out, please replace it with the optional replacement fader, CF-R.

How to replace the fader

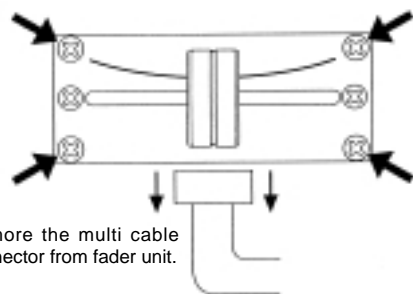
Remove the fader knob and four screws securing the fader panel.

Remove the fader unit.

Remove the multi-cable connector from the fader unit carefully.

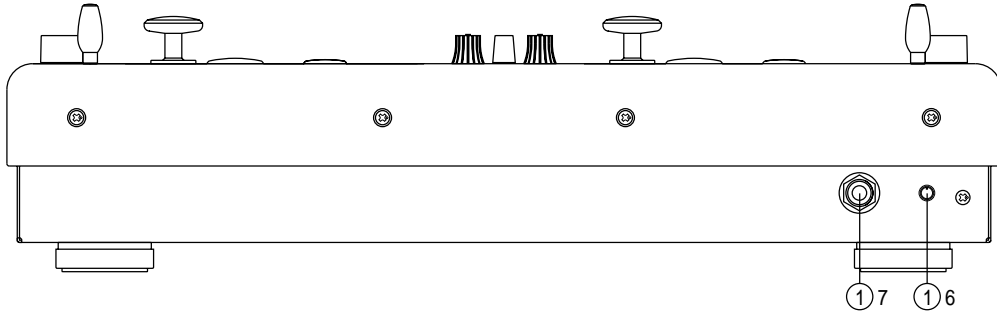
Insert the multi-cable connector to the new fader unit.

Place the fader unit and secure it with four screws.



Remove the multi cable connector from fader unit.

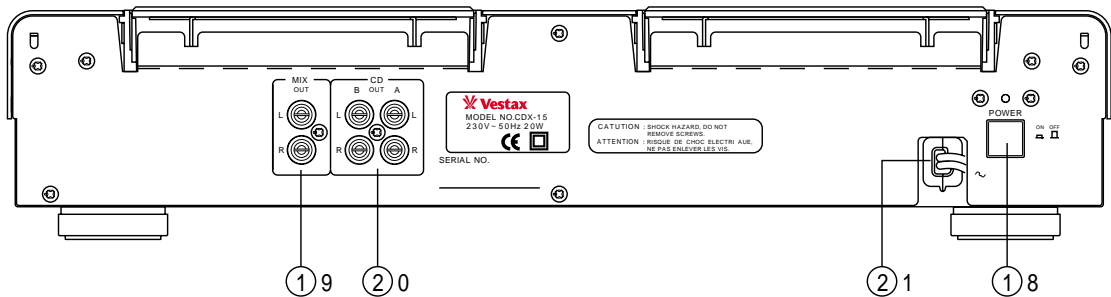
Remove four screws



HEADPHONE LEVEL
Adjusts the headphone output level.

HEADPHONE JACK
Connect the headphones to this jack. Headphones with its impedance from 8 ohm to 600 ohm can be used.

REAR PANEL



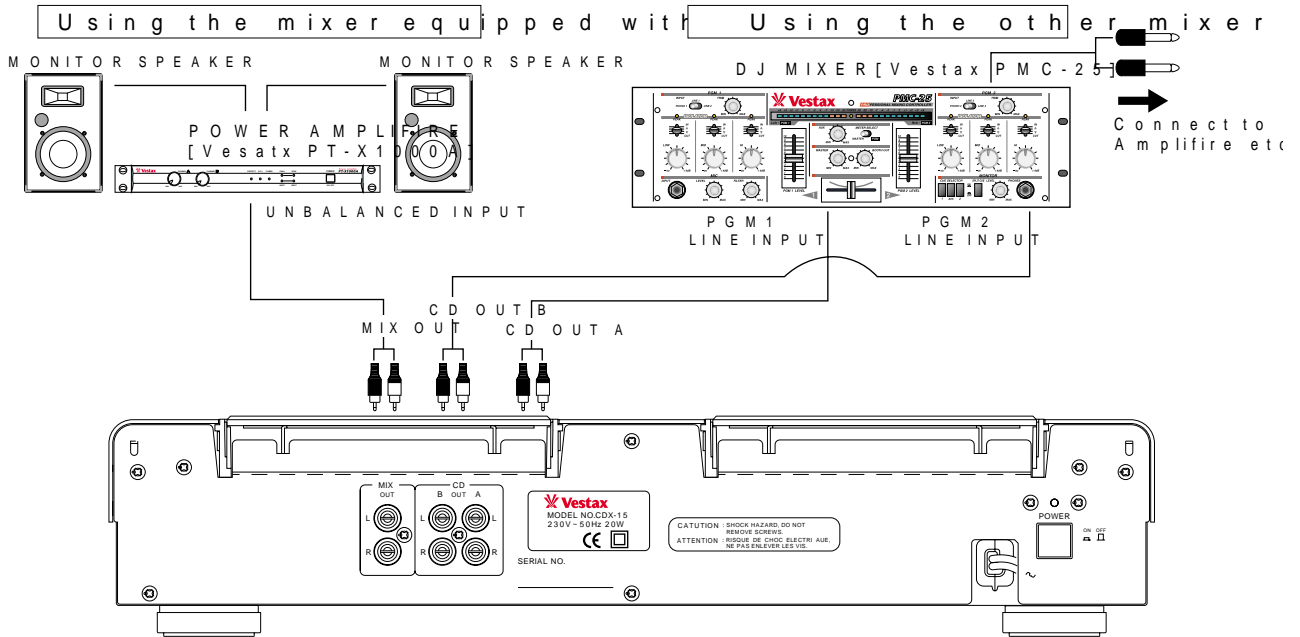
POWER SWITCH
Please ensure that the volume level of the power amplifier is at minimum position when the POWER SWITCH is turned on or off.

MIX OUT JACK
Connect to the input of a power amplifier.

CD OUT JACK
The output jack for the play back signal of each CD. Any of the mixer functions do not effect the signal from this jack.

21 AC CORD

CONNECTION EXAMPLE



OPERATION (Same for Player A and B)

NORMAL PLAYBACK

- [1] Turn the power on by pressing the POWER switch.
- [2] Open the CD door and place the disc into the centre shaft until the ball chucking holds the CD with a click. Close the CD door.



CD disc starts spinning and the laser pick-up reads the table of contents. Then pauses at the beginning of the first track.

- [3] Press PLAY/PAUSE button.



Starts playback from the first track immediately. Remaining time of the playing track will be shown on the digital display in minutes, seconds and frames.

- [4] Press NEXT button to skip to the next track.



Stop playing current track and starts playing back from the beginning of next track.

- [5] Press PLAY/PAUSE button to stop playback. Press PLAY/PAUSE button again to re-start playback.
- [6] Press STOP button when the CD is not played for a while. This prevents the laser pick up from wearing out. The CDX-15 starts playing back from the beginning of the track when PLAY BUTTON is pressed once again.

STANDBY MODE

In case the player is kept in PAUSE mode for over ten minutes, the CDX-15 stops spinning automatically and is set to STANDBY MODE in order to protect the CD mechanism from wearing out. STANDBY MODE is cancelled if any of the following is done.

- Pressing PLAY/PAUSE button.
- Pressing CUE button.
- Pressing STOP button.
- Pressing NEXT button.
- Pressing PREVIOUS button.
- Opening the top door.

- [7] Open the top door and pull out the disc.

BASIC OPERATION FOR DJ PLAY

- [1] Start to play back by pressing PLAY/PAUSE button.
- [2] Set MONITOR mode by pressing MONITOR button.
- [3] Search for the approximate position to start by moving the STICK CONTROLLER left or right.
- [4] Set PAUSE mode by pressing PLAY/PAUSE BUTTON and press MONITOR button.



Repeat sound of pause point can be monitored in 4 frame cycles.

- [5] Now the STICK CONTROLLER is set to the SEARCH mode. The exact start position can be searched by moving the STICK CONTROLLER.
- [6] Press MONITOR button after the start position is accurately set.



Repeat sounds stops.

- [7] Play back by pressing PLAY/PAUSE button again.
- [8] Adjust the pitch by using PITCH CONTROL FADER and STICK CONTROLLER to match the tempo with the other music.

SPECIFICATIONS

Total Power requirement	115V/230V AC, 20W
Weight	7.5kg
Dimensions (W+H+D)	442(W)+289(W)+890(H)
Accessory	owners manual

CD SECTION

Quantization:	16bit linear
Sampling Frequency	44.1kHz
Digital Filter	8 times over sampling
Shock Proof Memory	16Mbit, 10sec
Error Correcting System	CIRC
Harmonic Distortion	Less than 0.008%
Frequency response	20Hz 20KHz =81}1.5dB
Signal To Noise Ratio	More than 96dB
Channel Separation	More than 85dB
CD OUT	2Vrms
Mechanism Mount:	Ball chucking top mount CD mechanism

MIXER SECTION

Frequency Response	20Hz 20kHz =81}2dB (MIX OUT)
Cross Talk	60dB
Signal To Noise Ratio	90dB
Headphone Level	1.2Vrms (33(c) Load)





Vestax Corporation 1-18-6 Wakabayashi, Setagaya-ku, Tokyo 154-0023 Japan
Telephone : 81-(0)3-3412-7011 Fax : 81-(0)3-3412-7013. www.vestax.jp

**This is to certify that the product subsequently referred to
was designed and manufactured in conformity with the
following EC directives;**

89/336/EEC (EMC)

73/23/EEC (LVD)

Model type : Professional CD Player

Model Description : Dual CD Player

Model Number : CDX-15

Applicable Standards : EN55013:1990+A12:1994+A13:1996 Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment (including amendments A12:1994 and A13:1996) (CISPR13:1975/Amdt1:1983, modified)
EN50082-1:1997 Electromagnetic compatibility-Generic immunity standard Part1:Residential, commercial and light industry
EN60065:1993 Safety requirements for mains operated electronic and related apparatus for household and similar general
EN60065:1998 Safety requirements for mains operated electronic and related apparatus for household and similar general

Date : Wednesday, December 19, 2001

Place of issue : Vestax Corporation, 1-18-6 Wakabayashi, Setagaya-ku,
Tokyo 154-0023 Japan

**Manufacturers Authorized
Signature :**

Function of Signatory :

Masaaki Shiomi

Director