Featuring:

Sampling

CDI-500 Mp3™

User Guide
and Reference Manual

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## CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAFETY REGULATIONS</td>
<td>3</td>
</tr>
<tr>
<td>ELECTRICAL PRECAUTIONS</td>
<td>4</td>
</tr>
<tr>
<td>SAFETY INSTRUCTIONS</td>
<td>5</td>
</tr>
<tr>
<td>VOLTAGE SELECTOR</td>
<td>5</td>
</tr>
<tr>
<td>UNPACKING</td>
<td>6</td>
</tr>
<tr>
<td>CUSTOMER SUPPORT</td>
<td>6</td>
</tr>
<tr>
<td>FEATURES</td>
<td>7</td>
</tr>
<tr>
<td>SET-UP INSTALLATION</td>
<td>8</td>
</tr>
<tr>
<td>FUNCTIONS AND CONTROLS</td>
<td></td>
</tr>
<tr>
<td>MAIN UNIT</td>
<td>9</td>
</tr>
<tr>
<td>LCD DISPLAY</td>
<td>14</td>
</tr>
<tr>
<td>BASIC OPERATIONS</td>
<td></td>
</tr>
<tr>
<td>LOADING EJECTING DISC</td>
<td>16</td>
</tr>
<tr>
<td>SELECTING TRACKING</td>
<td>16</td>
</tr>
<tr>
<td>STARTING PLAYBACK</td>
<td>17</td>
</tr>
<tr>
<td>PAUSING PLAYBACK</td>
<td>17</td>
</tr>
<tr>
<td>FRAME SEARCH</td>
<td>17</td>
</tr>
<tr>
<td>TRACK SCANNING (FAST FWD/FAST REV)</td>
<td>18</td>
</tr>
<tr>
<td>SETTING AND STORING CUE POINTS</td>
<td>18</td>
</tr>
<tr>
<td>CREATING A SEAMLESS LOOP</td>
<td>19</td>
</tr>
<tr>
<td>USING THE BUILT-IN SAMPLER</td>
<td>21</td>
</tr>
<tr>
<td>USING THE BANK BUTTONS</td>
<td>23</td>
</tr>
<tr>
<td>BANK PROGRAMMING</td>
<td>23</td>
</tr>
<tr>
<td>CHANGING TIME DISPLAY</td>
<td>24</td>
</tr>
<tr>
<td>SYSTEM MEMORY</td>
<td>24</td>
</tr>
<tr>
<td>JOG WHEEL SENSITIVITY</td>
<td>25</td>
</tr>
<tr>
<td>CREATING A BOP EFFECT</td>
<td>25</td>
</tr>
<tr>
<td>PITCH ADJUSTMENTS</td>
<td></td>
</tr>
<tr>
<td>PITCH SLIDER</td>
<td>26</td>
</tr>
<tr>
<td>PITCH BENDING</td>
<td>27</td>
</tr>
<tr>
<td>BUILT-IN EFFECTS</td>
<td></td>
</tr>
<tr>
<td>SCRATCH/SKID</td>
<td>29</td>
</tr>
<tr>
<td>FILTER/PHASE</td>
<td>30</td>
</tr>
<tr>
<td>ECHO/FLANGER/ROBOT</td>
<td>30</td>
</tr>
<tr>
<td>TRANS/PAN</td>
<td>31</td>
</tr>
<tr>
<td>CHANGING PARAMETERS</td>
<td>31</td>
</tr>
<tr>
<td>ACCESSING Mp3 FOLDERS</td>
<td>32</td>
</tr>
<tr>
<td>FLIP-FLOP™</td>
<td>34</td>
</tr>
<tr>
<td>WARRANTY</td>
<td>35</td>
</tr>
<tr>
<td>SPECIFICATIONS</td>
<td>36</td>
</tr>
</tbody>
</table>
IMPORTANT SAFETY ITEMS FOR U.S.A. & CANADA MODEL ONLY

NOTE:
This CD player uses a semiconductor laser. It is recommended for use in a room at the following temperature: 41°F - 95°F / 5°C - 35°C

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS CD PLAYER TO WATER OR MOISTURE

CAUTION:
1. Handle the power supply cord carefully. Do not damage or deform; it may cause electric shock or malfunction when used. Hold plug attachment when removing from wall outlet. Do not pull on the cord.
2. To avoid electric shock, do not open the top cover when the unit is plugged in. If problems occur with the unit, call your local American Audio® dealer.
3. Do not place metal objects or spill liquid inside the CD player. Electric shock or malfunction may occur.

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE CAREFULLY INSERTED TO PREVENT BLADE EXPOSURE

CAUTION:
USE OF CONTROLS OR ADJUSTMENTS 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.

Please carefully read and understand the instructions in this manual thoroughly before attempting to operate this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Take special care to follow all warning symbols and labels both on the unit and printed in this manual. Also, Please keep this manual with the unit, for future reference.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER RACK. THERE ARE NO USER SERVICEABLE PARTS INSIDE REFER SERVICE TO YOUR AUTHORIZED American Audio DEALER.

The lightning flash with an arrow triangular symbol is intended to alert the user to the presence of non insulated “dangerous voltage” within the products enclosure, and may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point triangular symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the user manual accompanying the CD player.

ATTENTION: POUR PREVENIR LES CHOC ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREEES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.
## ELECTRICAL SAFETY PRECAUTIONS

**Power-supply cords**—If the product has been dropped or damaged in a way that may be of sufficient magnitude to constitute a risk of electric shock to persons, DO NOT OPEN. There are no user serviceable parts inside. Refer servicing to qualified American Audio® service technicians.

**ATTACHMENTS**—Do not use attachments not recommended by the product manufacturer as they may cause hazards.

**WATER AND MOISTURE**—Do not use this product near water—for example, near a bathtub, washbowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

**ACCESSORIES**—Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer’s instructions, and should use a mounting accessory recommended by the manufacturer.

**CART**—A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

**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. 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 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.

**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 product dealer or local power company.

**LOCATION**—The appliance should be installed in a stable location.

**NONUSE PERIOD**—The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

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## IMPORTANT SAFETY INSTRUCTIONS

**READ INSTRUCTIONS**—All the safety and operating instructions should be read before the product is operated.

**RETAIN INSTRUCTIONS**—The safety and operating instructions should be retained for future reference.

**HEED WARNINGS**—All warnings on the product and in the operating instructions should be adhered to.

**FOLLOW INSTRUCTIONS**—All operating and use instructions should be followed.

**CLEANING**—The product should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.

**ATTACHMENTS**—Do not use attachments not recommended by the product manufacturer as they may cause hazards.

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**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 product dealer or local power company.

**LOCATION**—The appliance should be installed in a stable location.

**NONUSE PERIOD**—The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

**GROUNDING OR POLARIZATION**
- If this product is equipped with a polarized alternating current line plug, a plug having one blade wider than the other, it will fit into the 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.
- If this product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin, it will fit into the outlet only one way. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

**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 product.

**OUTDOOR ANTENNA GROUNDING**—If an outside antenna or cable system is connected to the product, be sure the antenna or cable 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 1.

**LIGHTNING**—For added protection for this product 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 product due to lightning and power-line surges.

**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.

**OVERLOADING**—Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

**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.

**SERVICING**—Do not attempt service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

**DAMAGE REQUIRING SERVICE**—Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- 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.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance—this indicates a need for service.

**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.

**SAFETY CHECK**—Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

**WALL OR CEILING MOUNTING**—The product should not be mounted to a wall or ceiling.

**HEAT**—The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.
I. Read Instructions - All the safety and operating instructions should be read before the CD Player is operated. The safety and operating instructions should be saved for future reference.

2. Heed Warnings - All warnings on the CD Player and in the operating instructions should be adhered to.

3. Water and Moisture - The player should not be used near water - for example, near a bath tub, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.

4. Ventilation - The CD Player should be situated so that its location or position does not interfere with its proper ventilation. For example, the CD player should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

5. Heat - The CD player should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

6. Power Sources - The CD player should be connected to a power supply only of the type described in the operating instructions or as marked on the CD Player.

7. Servicing - The user should not attempt to service the CD Player beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel. The Player should be serviced by qualified service personnel when:
   A. The power-supply cord or the plug has been damaged.
   B. Objects have fallen, or liquid has been spilled into the CD Player.
   C. The CD Player has been exposed to rain or water.
   D. The CD Player does not appear to operate normally or exhibits a marked change in performance.

Line Voltage Selection

- The desired voltage may be set with the VOLTAGE SELECTOR switch on the rear panel (using a flat head screw driver).
- Do not force the VOLTAGE SELECTOR switch as this may cause damage
- If the VOLTAGE SELECTOR switch does not move smoothly, please contact a qualified service technician.

The serial and model number for this unit is located on the rear panel. Please write down the numbers here and retain for future reference.

Model No.__________________________
Serial No.__________________________

Purchase Notes:

Date of Purchase_____________________
Dealer Name________________________
Dealer Address_______________________
Dealer Phone________________________

INTRODUCTION

Introduction:
Congratulations and thank you for purchasing the American Audio® CDI-500 Mp3™ CD player. This CD player is a representation of American Audio’s continuing commitment to produce the best and highest quality audio products possible at an affordable price. Please read and understand this manual completely before attempting to operate your new CD player. This booklet contains important information concerning the proper and safe operation of your new CD player.

Customer Support:
American Audio® provides a toll free customer support line, to provide set up help and answer any question should you encounter problems during your initial set up or operation. You may also visit us on the web at www.AmericanAudio.us for any comments or suggestions. Service Hours are Monday through Friday 8:00 a.m. to 4:30 p.m. Pacific Standard Time.

Voice:  (800) 322-6337
Fax:   (323) 582-2610
E-mail:  support@americandaudio.us
To purchase parts online visit http://parts.americandj.com

Caution! There are no user serviceable parts inside this CD player. Do not attempt any repairs yourself, without being instructed to do so by an authorized American Audio service technician. Doing so will void your manufactures warranty. In the unlikely event your CD player may require service, please contact American Audio® customer support.

Do not discard the packing carton in the trash. Please recycle when ever possible.

SET-UP PRECAUTIONS

Please be sure to make any connections before plugging the CD player in to an electrical outlet. All fader and volume controls should be set to zero or minimum position, before the CD player is switched on. If the CD player has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch on the CD player immediately. The arising condensation of water might damage your device. Leave the device switched off until it has reached room temperature.

Operating Determinations:
• When installing this CD player, please make sure that the device is not exposed or will not be exposed to extreme heat, moisture or dust!
• Do not operate the CD player in extremely hot (more than 30°/100°F) or extremely cold (less than 5°C/40°F) surroundings.
• Keep the unit out of direct sunlight and away from heaters.
• Operate the CD player only after becoming familiar with its' functions. Do not permit operation by persons not qualified for operating the unit. Most damages are the result of unprofessional operation.
FADER “Q” START CONTROL: This feature is used in conjunction with most American Audio® and American DJ® audio mixers that also feature “Fader Q Start” control. For best results use this feature with two (2) CDI-500 Mp3™ players. Connect your CDI-500 Mp3 as described in the set-up section of this manual. After set up is completed load your players. By moving the mixer’s crossfader from left to right you can start and pause your CDI-500 Mp3™ playback functions. For example, when using two (2) CDI-500 Mp3™ players and a Fader “Q” Start mixer, if your mixer’s crossfader is all the way to the left (player one is playing, player two is in cue or pause mode), and you move the fader at least 20% to the right, player two (2) will begin to play and player one (1) will return to cue mode. When the crossfader is to the right, and you move it 20% to the left, player one (1) will begin to play and player two (2) will return to its’ cue point. You can create great effects similar to scratching with this feature. After storing cue points on each side of the CD player, different songs or samples may quickly be recalled by moving the mixer crossfader back and forth. New cue points can be easily selected on the CDI-500 Mp3™ player (see setting cue points page 17). “Q” Start control is easy to use and mastering this feature will help you create amazing effects with your music. Note: For proper “Q” Start operation be sure your mixers “Hamster” setting are set to 1/2 (Normal Setting).

FLIP-FLOP: This feature is used in conjunction with American Audio® mixers that also feature Fader “Q” Start. For FLIP-FLOP results you must use two (2) CDI-500 Mp3™ players. Connect your CDI-500 Mp3’s as described in the set-up section of this manual. This feature will start the next player once one (1) player has ended. For example, if player one (1) is playing a disc and it ends, player two (2) will instantly begin to play. You may set FLIP-FLOP to play track to track or disc to disc. For more information on this feature, see FLIP-FLOP™ on page 33.

MEMORY BACKUP: The CDI-500 Mp3™ has a five (5) year memory back-up, that will save your setting in case the power supply is accidentally disconnected. CDI-500 Mp3™ will remember your last setting (repeat, SGL, CTN, and effect parameters) even if you disconnect your main power. The CDI-500 Mp3™ will store your cue points and samples in memory if you accidentally eject a disc or shut off the power. See memory on page 24.

PROGRAMMABLE CUE POINTS: The CDI-500 Mp3™ has three BANK BUTTONS (12). 500 Cue points can be stored in each of the BANK BUTTONS (12), for a total of 1500. These cue points can be stored into the unit’s internal memory and may be recalled at any time. See setting “Cue Points” on page 18.

SLEEP MODE: The CDI-500 Mp3’s laser and pick-up assembly will power down after 15 minutes of inactivity (when in pause or cue mode). This will lengthen the life of your motor drive and laser. To initialize the player, just press the cue or play buttons.
1. Checking the Contents
   Be sure your CDI-500 Mp3™ was shipped with the following:
   1) CDI-500 Mp3™ Professional CD player.
   2) Operating instructions (this booklet).
   3) One (1) set of RCA cables.
   4) One (1) 1/8” mini plug.
   5) Warranty card.

2. Installing the Units
   Place your unit on a flat surface or mount it in a flat surface case

3. Connections
   1) Be sure the power is disconnected.
   2) Connect the included RCA cable from your CDI-500 Mp3™ outputs to the inputs on your mixer.
   3) Use the supplied 1/8” mini plug cable to connect your CDI-500 Mp3™ to a mini jack connection (A or B) on a compatible American Audio® or American DJ® “Fader Q Start” mixer. (This will enable the Fader “Q” Start function)

CAUTION:
• Be sure to use the supplied mono 1/8" control cables. Using other types of cable may result in unit damage
• To avoid severe damage to the unit, be sure the power is off when making connections to the unit.

CAUTION:
• The player will work normally when the main unit is mounted with the front panel within 15 degrees of the vertical plane. If the unit is tilted excessively, discs may not be loaded or unloaded properly. (Figure 1)

CAUTION:
• The LCD is designed to be clearly visible within the angles shown in Figure 2. Mount the control unit so that the visual angle is within this range.
A. TOP UNIT CONTROLS (FIGURE 3)

1. PITCH PERCENTAGE SELECTOR - Press this button to choose any pitch range percentages of 4%, 8%, 16%, and 100%. See page 26 for more details.

2. TEMPO LOCK FUNCTION - This button activates the TEMPO LOCK function. This function allows you to use the PITCH SLIDER to speed up or slow down playback speed without altering the tonal pitch of the track. When this function is not engaged the original tonal pitch of the track will be altered giving you the "chipmunk" effect when a track is played at a high rate of speed, or the "James Earl Jones" effect when a track is slowed to much.

3. PITCH ON/OFF BUTTON - This button is used to turn the PITCH SLIDER (7) function on and off. The pitch percentage can be changed between 4%, 8%, 16% and 100%. 4% will allow the least amount of pitch manipulation and 100% will allow the most amount of pitch manipulation. To adjust to the different values please see page 26.

4. BEAT SELECT BUTTONS - These buttons' are used to select the delay time of an effect to the beat of music. The beat delay ratios are 1/4, 1/2, 3/4, 1/1, 2/1, and 4/1.

   NOTE: A effect must be selected to set a delay time.

5. TIME BUTTON - The TIME button will switch the time value described in the TIME METER between ELAPSED PLAYING TIME, TRACK REMAINING TIME, and TOTAL REMAINING TIME. Hold this button down for 1 second to activate the AUTO BPM Mode.

6. TAP BUTTON - This button is used to override and manually set a tracks BPM. Occasionally the
built-in BPM meter may not function as desired. This button allows you to override the internal beat clock and manually set a tracks BPMs. To manually set the BPMs; tap this button a few times to a tracks heavy down beat, the unit will automatically calculate your tapping and translate it into a tracks BPM. The BPM readout is then displayed in the LCD (30). To return to the automatic BPM counter, press and hold down the BPM BUTTON for at least 2 seconds and then release.

7. PITCH SLIDER - This slider is used to adjust the playback pitch percentage. The slider is a set adjustment and will remain set until the pitch slider is moved or the pitch function has been turned off. This adjustment can be made with or without a disc in the drive. The pitch adjustment will remain even if a disc has been removed and will reflect on any other disc loaded into the player. That is to say, if you set a +2% pitch on one disc, remove that disc and load another, that disc too will have a +2% pitch. The amount of pitch being applied will be displayed in the LCD (30).

8. REVERSE - This button activates reverse play mode. This function will play your track or sample in reverse. All pitch and effect functions will operate normally in this mode.

9. BOP BUTTON - During play mode, pressing the BOP button will instantly return play to the last set cue point without interruption of music. Use this function to create a stutter effect.

10. SGL/CTN - This function allows you to choose between single track play or continuous track play (all tracks in order). This function also operates in FLIP-FLOP mode.

11. (-) PITCH BEND BUTTON - The (-) pitch bend function creates a momentary “Slow Down” in the CD’s BPM’s (Beats per minute) while it is playing. This will allow you to match the beats between two playing CD’s or other playing music source. Remember, this is a momentary function. When you remove your finger from the pitch button, the BPM’s will automatically return to PITCH SLIDER’S (7) pitch value. Holding down this button will give a maximum of -100% pitch. Use this function to slow to another playing music source. Be sure to notice that this function is a momentary pitch adjustment, for a more precise adjustment use the PITCH SLIDER (7) to match the BPM’s with another playing music source.

(+ ) PITCH BEND BUTTON - The (+) pitch bend function creates a momentary “BUMP” in the CD’s BPM’s (Beats per minute) while it is playing. This will allow you to match the beats between two playing CD’s or any other music source. Remember, this is a momentary function. When you remove your finger from this button, the BPM’s will automatically return to the PITCH SLIDER’S (7) selected pitch. Holding down this button will give a maximum of +100% pitch.

12. BANK PROGRAM BUTTON - This function will allow you to program a sequence of up to 12 saved samples. See page 23 for more information.

13. JOG WHEEL/EFFECTS PLATTER - This wheel has three functions;
A. The jog wheel will act as a frame search control when the CD is in pause or cue mode, allowing you to set a cue point.
B. The wheel also works as a pitch bend during playback. Turning the wheel clockwise will increase the pitch percentage up to 100%, and turning the wheel in the counter-clockwise direction will decrease the pitch percentage down to -100%. The pitch bend will be determined on how long you turn the jog wheel continuously.
C. The jog wheel will also control the bop function and a speed effect when the jog wheel effect function is activated, see page 24.

14. CD LED - This LED will light up when a CD is loaded and the player is ready for use.

15. EJECT FUNCTION - Pressing this will eject the CD. The eject function will only when the unit is in cue or pause mode, this is to prevent accidentally ejecting the disc when in play mode.
16. MEMORY BUTTON - This button allows you to program up to three (3) cue points or three (3) samples into the three BANK BUTTONS (12). The samples or cue points can then be recalled at any time even when the disc has been removed and replaced at a later time. See System Memory on page 24.

17. PLAY/PAUSE BUTTON - Each press of the PLAY/PAUSE BUTTON causes the operation to change from play to pause or from pause to play. While in play mode the green play LED will glow, and while in pause mode the green play LED will flash.

18. SAMPLER BUTTON - This is used to activate the sampler function. When this function is activated a created sample will play in a continuous loop mode.

19. EFFECTS AND HOLD BUTTON -
   - SCRATCH/SKID BUTTON - This button is used to activate and deactivate either the Scratch or Skid effect. See built-in effects on page 29.
   - FILTER/PHASE BUTTON - This button is used to activate and deactivate either the Filter or Phase effect. See built-in effects on page 30.
   - HOLD BUTTON - This button allows you to set and lock any new parameters you set to the effects. The button LED will glow red when the hold function is activated. If the hold function is not selected any changes to the effect parameters will be momentary.
   - ECHO/FLANGER EFFECT - This button is used to activate and deactivate either the Echo or Flanger effect. See built-in effects on page 30.
   - TRANS/PAN EFFECT - This button is used to activate and deactivate either the Trans or Pan effect. See built-in effects on page 31.

20. CUE - Pressing the CUE button during playback immediately pauses playback and returns the track to the last set cue point (see setting a CUE POINT, page 18). The blue CUE BUTTON LED will glow when the unit is in cue mode. The LED will also flash every time a new CUE POINT is set. The CUE button can be held down to momentarily play the CD. When you release the CUE button it instantly returns to the CUE POINT. You can also tap the CUE button to create a BOP EFFECT (for definition of BOP EFFECT, see page 24).

21. FX SEL. (SELECT) BUTTON - The effects are located on two different layers. This button allows you to select an effect on a different layer.

22. RELOOP BUTTON - If a SEAMLESS LOOP has been made (see setting a SEAMLESS LOOP on page 19), but the CD Player is not actively in SEAMLESS LOOP mode (a loop is not playing), pressing the RELOOP BUTTON will instantly reactivate the SEAMLESS LOOP mode. To exit the loop, press the OUT BUTTON (24). LOOP and RELOOP will appear in the LCD DISPLAY (30) when the RELOOP function is available.

23. PARAMETER/FOLDER BUTTON - Use this button to switch between the Parameter function, or the Folders and Tracks on a Mp3 disc.
   - Parameters - When the Parameter LED is lit, you are able to adjust the time value and ratio value, by turning their designated knobs.
   - Folders - When the Folder LED is lit, you may search through the music folders and tracks on a Mp3 disc by turning their designated knobs.

24. OUT BUTTON - This button is used to set the ending point of a loop. A loop is started by pressing the IN BUTTON (26), and pressing the OUT BUTTON to set the loop ending point. The loop will continue to play until the OUT BUTTON is pressed once again.

25. PARAMETER RATIO/TRACK SEARCH KNOB - This knob is used to either adjust the parameter ratio value or search through the tracks on a cd or Mp3 disc.

26. SEAMLESS LOOP IN BUTTON - “CUE ON THE FLY” - This function allows you to set a CUE POINT (see CUE POINT page 18) without music interruption (“on the fly”). This button also sets the starting point of a seamless loop (see
SEAMLESS LOOP).

27. ➤➤➤ TRACK BUTTON - This button is used to select a track. Tapping this button will forward skip to the next track, holding down this button will rapidly forward skip through the tracks.

    ◀◀◀ TRACK BUTTON - This button is used to select a track. Tapping this button will back skip on track, holding down this button will rapidly BACK SKIP through the tracks.

28. SEARCH KNOB - This knob has four forward and four reverse speed positions allowing you to quickly scan through tracks. The more you turn the knob in either direction, the faster your search.

29. PARAMETER TIME/FOLDER SEARCH KNOB - This knob is used to either adjust the parameter time value or search through the folders on a Mp3 disc.

30. LCD DISPLAY - This high quality LCD display indicates all the functions, as they are occurring. This display is viewable at several comfortable angles (see page 8). The display ICONS will be explained in the section D.
B. REAR PANEL (FIGURE 4)

31. VOLTAGE SELECTOR - Because power supplies vary from location to location we have incorporated a selectable voltage switch. This switch can select a voltage input of 120v~60Hz or 230v~50Hz. Always disconnect the power plug before changing the voltage. **DUAL VOLTAGE MODELS ONLY**

32. POWER CONNECTOR - This connection is used to connect your main power. Be sure that your local power matches the unit’s required power.

33. POWER BUTTON - This button is used to turn your unit’s power on and off.

34. CUE MINI JACK - Connect the supplied mini-plug from CUE JACK on the rear of your unit to a compatible American Audio® mixer’s CONTROL out. This feature is only available on American Audio’s “Q” series mixers.

35. DIGITAL OUT - Use this connection to create near perfect copies of your disc to a Mini disc, CD-R, or any other digital recording device.

36. AUDIO OUT R & L - Audio out signals. Connect stereo RCA cable from AUDIO OUT to a mixer’s LINE input.

C. FRONT PANEL (FIGURE 5)

37. CD SLOT POWER INDICATOR - This is the main power LED. This extremely bright Indigo LED will also aid in locating the CD slot in dark and club situations.
D. LCD DISPLAY PANEL (FIGURE 6)

38. **RELOOP INDICATOR** - Appears when LOOP is engaged or ready to be engaged.

39. **EFFECT INDICATOR** - Appears when any effect is engaged.

40. **POWER TOUCH SENSITIVE INDICATOR** - Appears when anything touches the jog wheel.

41. **CD DIRECTION INDICATOR** - Indicates the direction the CD is rotating. Counter-Clockwise rotation means the CD is playing in reverse.

42. **PLAY/PAUSE INDICATOR** - Either the play or pause indicator will glow depending which mode you are in.

43. **CUE INDICATOR** - This indicator will glow when the unit is in CUE mode and will flash every time a new CUE POINT is set.

44. **MP3 INDICATOR** - This will indicate that a Mp3 disc is loaded in the drive.

45. **PARAMETER/BPM INDICATOR** - Indicates the BPM of a track, or the Parameter Time or Ratio percentage of a sample.

46. **TIME BAR INDICATOR** - This bar gives a visual approximation of a track’s or disc’s time. This bar will begin to flash when a track is ending. The flashing bar is great reminder, that time is running out to get that next track ready to go.

47. **TIME METERS** - These indicators will detail the current Minutes, Seconds, and Frames. The meter will display either the elapse, total, or remaining time of a track or the entire disc. The display time will depend on the selected time function. The selected time function will be displayed above the TIME METER as either **REMAINING TRACK TIME (48) OR ELAPSED TRACK NAME**.

48. **CHARACTER DISPLAY** - This will display the name of the track and album when a Mp3 disc is loaded.

49. **TOTAL/REMAIN INDICATOR** - When TOTAL is indicated in the **LCD DISPLAY (30)** the **TIME DESCRIBED (47)** in the **LCD (30)** will define the total disc remaining time. When **REMAIN** is indicated in the **LCD DISPLAY (30)** the **TIME DESCRIBED (47)** in the **LCD** will define the current track’s remaining time.

50. **TRACK/FOLDER DISPLAY** - This indicator describes which track or folder is currently cued or is playing.

51. **FOLDER/TRACK INDICATOR** - This indicator shows you if you are looking at the track number or the folder number.

52. **CD INDICATOR** - This will indicate a CD disc
is loaded into the player.

53. PITCH INDICATOR - Indicator will light up when the Pitch is activated.

54. TEMPO LOCK - This will indicate the Tempo Lock function is active.

55. SINGLE INDICATOR - This indicates that the CD drive is in single play mode, the track will play once and return to CUE mode. If the single indicator is not on the unit is in continuous mode. In continuous mode the drive will play all the remaining tracks on the disc. Once the remaining tracks have ended the unit will return to cue mode.

56. AUTO BPM - This will indicate that the AUTO BPM counter is active.

57. AUTO CUE - This will indicate if the Auto Cue is on or off. Press and hold the SGL/CTN (10) for 1 sec. to turn the Auto Cue function on and off.

58. LOOP - This icon will flash when you are in loop mode. This icon will glow when a loop has been created but is not actively playing.
BASIC OPERATIONS

1. LOADING/EJECTING DISCS
The CDI-500 Mp3™ can only play regular 5 inch CDs. 3 inch, odd shaped, and oval CDs are not compatible. When loading a CD into the player always hold the disc by it edge. Load the disc label side up and slide it in the disc slot. Never touch the signal surface (the glossy side). To remove a disc from the slot press the EJECT BUTTON (15).

CAUTION:
• NEVER attempt to insert any other objects beside 5" CD in the disc slot.
• NEVER attempt to insert more than one disc at a time. Doing so may result in severe damage to your unit.
• DO NOT force a disc into the slot when the power is off, this may damage the drive system.

2. SELECTING TRACKS
Select a desired track by using either of the two TRACK BUTTONS (27) or by turning the TRACK KNOB (25). Tapping the TRACK BUTTONS (27) or turning the TRACK KNOB (25) once will select either the next higher or lower track. You may hold down the TRACK BUTTONS (27) or turn and hold the TRACK KNOB (25) to change tracks continuously at a faster speed. If you are using the TRACK BUTTONS (27) to select a new track during playback (a track is already in play mode) the new track you selected will immediately begin playback as soon as the search operation is completed.
3. STARTING PLAYBACK - Figure 11
Insert an audio CD as described on page 15 (LOADING/EJECTING DISCS). Pressing the PLAY/PAUSE BUTTON (17) with an audio CD loaded will immediately start playback. The PLAY (42) indicator will glow as soon as playback begins. The point at which playback starts (cue point) will automatically be stored in the memory as the cue point. The unit will return to this cue point (the point at which playback started) when the CUE BUTTON (20) is pressed.

4. AUTO CUE
This function will automatically set a cue point to the first audio source when a CD is inserted. The first set cue point will always be the beginning of track 1. If a new track is selected before the PLAY BUTTON (17) is pressed, a new CUE POINT will be set to reflect the new starting point.

5. STOPPING PLAYBACK - Figures 10 & 11
Stopping playback will not stop the drive mechanism, but merely pause or cue the track, this functions allows the unit to begin play instantly. The drive mechanism will only stop if a disc is ejected or the unit has gone in to sleep mode. There are two ways to stop (pause) playback:
1) Press the PLAY/PAUSE BUTTON (17) during playback. This will pause playback at the exact same point the PLAY/PAUSE BUTTON (17) was pressed.
2) Press the CUE BUTTON (20) during playback. This will pause playback and return the track to the last set cue point.

6. PAUSING - Figure 10
This function pauses playback at the exact same point the PLAY/PAUSE BUTTON (17) was pressed. Pressing the PLAY/PAUSE BUTTON (17) will switch between play and pause modes. When the unit is in pause mode the PAUSE INDICATOR (42) in the LCD DISPLAY (30) will glow. The green PLAY/PAUSE BUTTON (17) LED will also begin to flash repeatedly.

7. FRAME SEARCH
This feature allows you to scroll through a track frame by frame, allowing you to find and set a starting cue, sample, or loop point. To use the scroll function you must first be in Pause Mode (see section 6) or Cue Mode (see section 5). Once you are in Pause or Cue mode, turn the JOG WHEEL (13) to scroll through the track (Figure 12). Turning the wheel in a clockwise direction will advance the frame search and turning the wheel in a counter-clockwise direction rewinds the frame search. When you use the JOG WHEEL (13) the monitor (headphone level) function allows you to here what you are scrolling through. Once you reach your desired starting point you can set a cue (starting) point by pressing the PLAY/PAUSE BUTTON (17) as in Figure 10. Pressing the CUE BUTTON (20) as in Figure 11 will now return you to the point you just set.

8. SCANNING (FAST FORWARD / FAST REVERSE)
This function gives you a fast search through a disc or track. Turn the SEARCH KNOB (28) in clockwise direction for fast forward or turn the wheel counterclockwise for fast reverse. You can scan in four different forward and four different reverse speeds depending on how much you rotate the knob.

9. SETTING and STORING a CUE POINT:
Setting A Cue Point:
A cue point is the exact point playback will begin when the PLAY/PAUSE BUTTON (17) is pressed. You may set your cue points anywhere on a disc or in a track. You may set up to five independent cue points per disc. Four cue points are stored in the BANK BUTTONS 1-3 (12) and one is shared by the IN BUTTON (26) and the CUE BUTTON (20). There are two (2) ways to set and create a CUE point as detailed in figures 14 and 15.

1) You may press the IN BUTTON (26) on the fly (while the disc is playing). This will set a CUE Point without music interruption. Pressing the CUE BUTTON (20) will now return you to the same point that you pressed the IN BUTTON (26). You may now store this CUE Point in any of the BANK BUTTONS 1-3 (12).

2) You may also use the JOG WHEEL (13) to set a cue point. While a disc is in PAUSE or CUE mode, use the JOG WHEEL (13) to scroll through a track to find your desired starting point. Once you have found your desired position press the PLAY BUTTON (17) to set your cue point. Pressing the CUE BUTTON (20) or the IN BUTTON (26) will now return you to this exact point.
Storing A Cue Point:
Once you have set your CUE Point by one of the two means listed on page 18, you may store your cue point in one of the BANK BUTTONS (12). Once you store this cue point in memory you may recall it at any time and you may even recall memory if the disc has been removed or power had been disconnected, see SYSTEM MEMORY on page 24. You may store a maximum of four cue points per a disc and maximum of 508 cue points can be saved in unit’s memory. Either a CUE POINT or a SAMPLE (See creating a sample loop on page 19 and 20) can be stored into a BANK BUTTON (12) not both. To Store a cue point:
1) Create a Cue Point by one of the two means listed on page 18. Press the MEMORY BUTTON (16), as in Figure 16. The yellow Memory Cue LED will glow indicating the store memory function has been activated. You may now press any one of the three BANK BUTTONS (12) to store your cue point into memory (Figure 17). After pressing one of the BANK BUTTONS (12), the corresponding Bank Button LED will flash briefly. The LED on the the BANK BUTTON (12) will remain lit indicating either a sample or cue point is stored in memory. The yellow Memory LED will turn off.

2) Repeat the above steps to store up to three more Cue Points. Once your three cue points have been stored you may access them at any time. During playback the cue points will instantly start playback from that point without any music interruption. Please note in order to access these cue point, the disc used to create the cue points must be loaded in the drive.

10. CREATING AND PLAYING A SEAMLESS LOOP
A seamless loop is a sound loop that plays continuously without sound interruption. You can use this loop to create dramatic effect in your mixing. This loop has no time limit and you could actually loop the entire length of disc. You create a seamless loop between two continuous points of a disc.

1) Press PLAY/PAUSE BUTTON (17) to activate playback mode.

2) Press the IN BUTTON (26). This will set the starting point of the SEAMLESS LOOP. The IN BUTTON (26) LED will flash then glow.
3) Press the **OUT BUTTON (24)** to set the ending point for your **SEAMLESS LOOP** (Figure 20). The **IN BUTTON (26)** and **OUT BUTTON (24)** LEDs will immediately begin to flash rapidly, indicating the **SEAMLESS LOOP** mode has been activated.

**LCD LOOP INDICATORS** - During a seamless loop, the **LOOP (58)** and **RELOOP (38) INDICATORS** will turn on in the **LCD DISPLAY (30)** indicating a loop is active.

**EXITING A LOOP** - To exit a **SEAMLESS LOOP**, press the **OUT BUTTON (24)**. The **IN BUTTON (26)** and **OUT BUTTON (24)** LEDs will remain on, but will stop flashing. Music playback will resume normal play. The **IN BUTTON (26)** and **OUT BUTTON (24)** LEDs will remain on to remind you that a loop is stored in memory.

**REPLAY LOOP** - The **RELOOP (22)** function allows you to return to your stored loop at any time. The **IN BUTTON (26)** and **OUT BUTTON (24)** LEDs will indicate a loop is stored in memory, and may be played at any time. To replay the loop, press the **RELOOP BUTTON (22)**. The **IN BUTTON (26)** and **OUT BUTTON (24)** LEDs will again begin to flash indicating **SEAMLESS LOOP** mode has been activated and your stored loop will immediately begin to play.

**Please note:** Only the ending point of the loop may be edited. You may make your loop shorter or longer. Before you can edit your seamless loop you obviously must first create a seamless loop to edit. If you haven’t created a **SEAMLESS LOOP**, follow the instructions in step 10 to create a loop. If a **SEAMLESS LOOP** has already been created, press the **RELOOP BUTTON (22)** to activate your **SEAMLESS LOOP** (Figure 22) if it is not already activated. To edit your seamless loop’s ending point:

1) Press the **OUT BUTTON (24)** to return to normal play from the loops cue point. (Figure 21). This will disengage the **SEAMLESS LOOP** mode and allows you to edit the loops ending point.

2) Press the **OUT BUTTON (24)** again when you reach your new ending point (Figure 21).

   - **FOR A SHORTER LOOP:** Press the **OUT BUTTON (24)** at sooner point in the track (Figure 21).
   - **FOR LONGER LOOP:** Press the **OUT BUTTON (24)** at later point in the track (Figure 21).
11. Using the Built In Sampler:
Your CDI-500 Mp³™ comes with an advanced built in sampler. You may store up to three samples in the three BANK BUTTONS (12). Once again please note you may only store either a CUE POINT or a SAMPLE into a BANK BUTTON (12), not both. Your sample can be a maximum of 5.5 seconds in length. A sample can be recalled while a CD is playing, while the CD drive is in PAUSE MODE, you may even play a sample when the CD has been removed. You may play your sample at anytime without music interruption. If you play your sample when the unit is already in playback mode you sample will over lap the current music source. You can also play your sample once or in a continuous loop. As with cue points you may store approximately 1500 (500 x 3) samples in a drives memory (depending on available memory). The MEMORY BUCKET on the LCD DISPLAY (30) will approximate the remaining memory.

To create a sample:
1) Initialize a loop (see creating a seamless loop on page 18 and 19). If your loop is longer than 5.5 seconds it can not be stored as a sample and will stored as a Cue Point.

2) Press the MEMORY BUTTON (16). The MEMORY BUTTON (16) green LED will glow indicating memory is ready to be stored.

3) Select one of the three BANK BUTTONS (12) you wish to store your loop in and press that button.

4) The yellow MEMORY BUTTON (16) LED will turn off, when your sample is locked into memory.

5) At this point your sample has been stored into memory. The original loop you used to create the sample will remain playing until the OUT BUTTON (24) is pressed (Figure 25).

6) Your sample can now be recalled at any time even when the unit is in PAUSE MODE. To recall the sample be sure the sample function is on, by pressing the SAMPLE BUTTON (18). The yellow sample button LED will turn on. To play your sample in a continuous loop leave the sample function on. To play your sample just once, turn the sample function off immediately after initiating your sample. With the sample function on the sample will continue to play until the sample function is turned off.

7) Important Notice: If you try to activate your sample without turning the sample function on, the BANK BUTTON (12) will act as a cue point!
BASIC OPERATIONS (CONT.)

Changing the Sample Parameters:
Changing the sample parameters allows you to change the sample’s volume (SV) and pitch (SP). A higher value will increase the pitch percentage or volume. It’s important to understand that the pitch value is basically a speed adjustment and has nothing to do with tonal quality. The values can be either a momentary change or set adjustment. The sample values are changed in three easy steps, while in sample playback mode:

Changing the Sample Parameters - Speed
While a sample is playing push the PARAMETER TIME KNOB (29). One tap will display a percentage in the LCD DISPLAY (30). Turning the knob in a clockwise direction will increase your pitch. Turning the knob in a counter-clockwise direction will decrease the parameters value.

Changing the Sample Parameters - Volume
While a sample is playing push the PARAMETER/FOLDER BUTTON (so that the Parameter LED is lit. Now push the PARAMETER RATIO KNOB (25). One tap will display a percentage in the LCD DISPLAY (30). Turning the knob in a clockwise direction will increase the volume. Turning the knob in a counter-clockwise direction will decrease the parameters value.

Changing the Sample Parameters - Hold Function
Hold Function - This mode will allow you to save and lock your parameter adjustments, if the hold function is not activated before you set your parameters, your parameter adjustments will be momentary. If you select the HOLD BUTTON (19) all parameters will remain until changed again or power is shut off, unless they are stored in to the unit’s memory.
12. BANK BUTTONS (12):
These buttons are used to store your samples and cue points. Only a sample or a cue point can be stored into each of these four banks. When a sample is stored in of the banks you may use the sample starting point as a cue point. The BANK BUTTONS instantly recall and play any of your stored samples or cue points without interrupting music playback. When in sample mode, (see "Using the Built-In Sampler" on page 20) and during playback, pressing any of the BANK BUTTONS that stores a sample, will immediately begin to play that sample without interruption of music. If the unit is in sample mode and the drive is not in playback mode, pressing any of the BANK BUTTONS that stores a sample, will immediately begin to play that sample.

13. BANK PROGRAM BUTTON (12):
Once you store samples in the three (3) Bank Buttons, the CDI-500 Mp3 can be programmed to play the stored samples in a desired order. You can program the three (3) banks up to 12 times. The programmed samples can be played in your desired order without interrupting music playback. The programmed samples can be played when the player is in Pause mode and even when the disc has been removed. If the unit is in sample mode and the drive is not in playback mode, pressing any of the BANK BUTTONS that stores a sample, will immediately begin to play that sample.

To program samples:
1) Once you have one or more samples stored. Press the BANK PROGRAM BUTTON (12). The CHARACTER DISPLAY (48) will now display BANK P 1.

2) Program your Banks (Samples) in your desired order. EXAMPLE: Bank 3; Bank 1; Bank 2; Bank 3; Bank 3; Bank 1. To end programming, press the BANK PROGRAM BUTTON (12).

3) To play your programmed samples, press the SAMPLE BUTTON (18) then press the BANK PROGRAM BUTTON (12).
14. CHANGING THE TIME DISPLAY (47)/TIME BAR (46):
During normal playback, pressing the TIME BUTTON (5), will change the time display information (47 & 46) in the LCD (30). The following is a breakdown of the time settings and their definitions:

1) **ELAPSED** - This describes the time in the LCD (47) as the current TRACKS elapsed running time.
2) **REMAIN** (49) - This describes the time in the LCD (47) as the current TRACKS remaining running time.
3) **TOTAL REMAIN** (49) - This describes the time in the LCD (47) as the disc total remaining running time.

**Figure 33**

**TIME BAR INDICATOR (46)** - Details the time defined in the TIME METER (47) as a visual bar icon. As with the TIME METER (47) this bar is also dependent on the selected time function [TOTAL REMAIN (49), REMAIN (49) OR ELAPSED]. This bar will begin to flash when a track is ending regardless of which time function you are in. Use the flashing bar as a visual reminder that a track is ending.

15. SYSTEM MEMORY:
The CDI-500 Mp3 comes with an incredible memory system. The CDI-500 Mp3™ can memorize virtually every customized setting for a particular CD. The unit can memorize all customized effect parameters, cue points, and samples used on a particular disc. To store all your setting for a CD, press and hold down the MEMORY BUTTON (16) for at least three seconds. When the memory has been stored properly the yellow MEMORY LED (16) will flash then turn off. The memory is full the outline of the MEMORY BUCKET in the LCD (30) will disappear.

16. RECALL FLASH MEMORY:
The CDI-500 Mp3 can store all your programmed cue points and effect parameters in to memory. These setting may be recalled at any time, even when a disc has been removed and loaded at a later time. To recall the memory on a specific disc; 1) Be sure a CD is not loaded in to the drive. 2) Press the MEMORY BUTTON (16) down until the yellow memory LED begins to flash. 3) Insert the CD. *RECALL* will appear in the LCD (30) while the memory is being installed and the yellow MEMORY BUTTON (16) LED will turn off.

17. CLEAR ALL MEMORY:
You may clear the system memory at any time. This will erase all your programmed memory and restore the unit to it’s default settings. To clear the memory: While main power is turned off, turn the SEARCH KNOB (28) in a counter-clockwise direction. While the search knob is turned in a counter-clockwise direction turn main power on. The LCD (30) will flash three times and default memory will be restored.

18. FIRMWARE VERSION DISPLAY:
You may display the units firmware version. Firmware is the units internal programming code. To view the firmware version: While main power is turned off, turn the SEARCH KNOB (28) in a clockwise direction. While the search knob is turned in a clockwise direction turn main power on. The firmware version will appear in the LCD (30) as long as the search wheel is held in the clockwise postion.
TOUCH SENSITIVE JOG WHEEL/BOP EFFECT

**JOG WHEEL TOUCH SENSITIVITY:** This function works with the SCRATCH effects. This function allows the play and cue commands to be controlled by tapping on the touch sensitive jog wheel.

**ADJUSTING JOG WHEEL TOUCH SENSITIVITY:** The degree of sensitivity can be adjusted to make it more or less sensitive. Press and hold the PITCH ON/OFF BUTTON (3), as your holding this button down turn the TIME or RATIO KNOBS (29 & 25) clockwise. The LCD (30) will display the degree of sensitivity. The range of sensitivity is from -20 to +20.

**RESET JOG WHEEL TOUCH SENSITIVITY:** If the touch sensitivity does not seem to work, you can reset the touch sensitivity. Make sure the the power is "off" on the unit, and press and hold the PITCH ON/OFF BUTTON (3), as your holding this button down turn the power "on". **When you are doing this do not touch the jog wheel at all!** The LCD (30) will display the degree of sensitivity, it will reset the value automatically. Once it displays the sensitivity value you may release the PITCH ON/OFF BUTTON (3).

**BOP EFFECT:** The Bop Effect is a stutter effect that is similar to turntable scratching. You can use this effect to create tricks in your mixing.

**ACTIVATING TOUCH SENSITIVITY:** Before you can use the JOG WHEEL (13) to control the play and cue commands you must first activate the jog wheel touch sensitivity. To activate the touch sensitivity mode, be sure the FX SELECT LED is glowing green. Once the FX SELECT LED is glowing green, press and hold the SCRATCH BUTTON (19) until it begins to flash red repeatedly. This will activate touch sensitivity mode.

**IN PLAYBACK MODE:** While in play mode and when the touch sensitivity function is active, the JOG WHEEL (13) can be used to return the unit to last cue point. Simply touch the JOG WHEEL (13) and unit will immediately return to the last set cue point and playback without music interruption. Essentially the JOG WHEEL (13) becomes a BOP EFFECT.

**IN CUE MODE:** While in cue mode and when the touch sensitivity function is active, tapping on the JOG WHEEL (13) can be used to start playback. The unit will continue to playback until the JOG WHEEL (13) is released. Once the JOG WHEEL (13) is released the unit will return to the last cue point.
1. PITCH SLIDER (7):
This function will increase or decrease the tracks playback speed or "PITCH." The maximum pitch percentage manipulation in this function is +/-100%. The PITCH SLIDER is used to decrease or increase the playback pitch. If the slider is moved up (towards the top of the unit) the pitch will decrease, if the slider is moved down (towards the bottom of the unit) the pitch will increase. The PITCH SLIDER adjustment can be changed to range from +/-4%, +/-8%, +/-16%, or +/-100% (See changing "PITCH SLIDER PERCENTAGE RANGE" on the next page). The pitch adjustments will effect normal playback and loops only when the PITCH ON/OFF BUTTON (3) is turned on. The pitch adjustments will not affect your samples.

Activating the Pitch Slider (7): To activate the PITCH SLIDER (7) you must turn on the pitch adjustment function. Press the ON/OFF BUTTON (3) located at the top right of the unit. The ON/OFF BUTTON (3) LED will glow when the function is activated. If the pitch function is not activated the PITCH SLIDER (7) will not function.

Using the Pitch Slider (7): Be sure the pitch function has been activated as described above. To use the PITCH SLIDER (7) slide the slider up and down. Down will increase the pitch and up will decrease the pitch.
2. PITCH BENDING:
Unlike the PITCH SLIDER (7) adjustment this function will momentarily increase or decrease a track's speed during playback. There are two ways to operate this function, with the (-) & (+) PITCH BUTTONS (11) or with the JOG WHEEL (13). The maximum pitch bend percentage allowed is +/- 100%. The pitch bend function will work in conjunction with the PITCH SLIDER'S (7) pitch setting. For example, if the PITCH SLIDER (7) is set to a 2% pitch gain the pitch bending process will begin at 2% and will continue to the maximum of +/- 100%.

NOTE: A -100% pitch manipulation will stop playback entirely.

Holding down or tapping on the (-) PITCH BEND BUTTON (11) will provide a slow down in the playback pitch.

Holding down or tapping on the (+) PITCH BEND BUTTON (11) will provide a speed bump in the playback pitch.

PITCH BEND BUTTONS (11):
The (+) PITCH BEND BUTTON (11) will increase track playback speed and the (-) PITCH BEND BUTTON (11) will decrease track playback speed. The extent to which the speed changes is proportionate to the amount of time the button is pressed. For example, if the (+) PITCH BEND BUTTON (11) is held down continuously as in figure 42, the disc speed will increase and will continue to increase until it reaches a maximum of 100% speed gain. When you release the (+) PITCH BEND BUTTON (11) the disc speed will automatically return to its previous set speed.
3. JOG WHEEL (13):
The JOG WHEEL will temporarily bend the pitch if a track is in playback mode. Rotating the wheel in a clockwise direction will increase your track pitch and rotating the wheel in a counter-clockwise direction will decrease your track pitch. The speed you rotate the JOG WHEEL will determine pitch bend percentage (%). For example, if the JOG WHEEL is continuously turned in a counter-clockwise direction the playback speed will steadily decrease and will continue to decrease until playback reaches a maximum of -100% and playback stops entirely. When you stop turning the JOG WHEEL the disc speed will automatically return to its previous set speed.

**NOTE:** To use the JOG WHEEL in a pitch bend function when the SCRATCH EFFECT (19) is activated you must use the outer ring of the jog wheel where the clear rubber insulator is attached.

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FINE TUNE BPM

This feature lets you fine tune and lock the BPM’s of the current playing track.

1. Press and hold the TAP BUTTON (6) and then turn the PARAMETER TIME KNOB (29) to Fine Tune the BPM of the current track. Once you have fine tuned the BPM, it will be locked and can only be changed by pressing and holding the TAP BUTTON for 2 secs.

**NOTE:** If you leave the adjusted BPM count as is, it will carry over to the next song.
BUILT-IN EFFECTS

The CDI-500 Mp3™ comes with nine built-in effects. These effects can be used one at a time or you may choose to overlap the effects and use up to four at a time. The Built-in effects include Scratch, Skid, Filter, Phase, Flanger, Echo, Robot, Pan, and Trans. It is important to understand that only one effect per an effect bank can be turned on at one time, but all four effects banks can be used at a time. FOR EXAMPLE: the Flanger, Echo, and Robot are all stored in the same effects bank but only one can be used at a time. You can choose to use the effects with their default parameters or you may choose to customize each effect by changing the parameters. The parameter values for all the effects will range. Some effects will have more adjustable parameters than others. The parameters have two adjustable values, PR (Parameter Ratio) and PT (Parameter Time). All parameters will be reset to there default values when power is shut off!

FX SELECT: The FX SELECT BUTTON (19) allows you to toggle back and forth between the two effects banks. When the FX SELECT BUTTON (19) LED is glowing green you have access to the top bank of effects which include; scratch, filter, echo, robot, and trans. When the FX SELECT (19) LED is glowing blue you have access to the bottom bank of effects which include; skid, phase, flanger, and pan. To toggle to the next bank of effects press the FX SELECT BUTTON (19) again so that the FX SELECT (19) LED is glowing green.

BEAT SELECT BUTTONS (4): These buttons access the preset banks for the parameters. All effects synchronized to the beat. Each effect has a set of six built-in presets and one user programmable preset. These presets are accessed by the BEAT SELECT BUTTONS (4). To toggle between the banks tap on the arrow buttons. The chart on the side defines the presets.

<table>
<thead>
<tr>
<th>BEAT SELECTION BANKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - Refreshes on 1/4 Beat</td>
</tr>
<tr>
<td>2 - Refreshes on 1/2 Beat</td>
</tr>
<tr>
<td>3 - Refreshes on 3/4 Beat</td>
</tr>
<tr>
<td>4 - Refreshes on 1/1 Beat (every full beat)</td>
</tr>
<tr>
<td>5 - Refreshes on 2/1 Beat (twice a beat)</td>
</tr>
<tr>
<td>6 - Refreshes on 4/1 Beat (four times a beat)</td>
</tr>
</tbody>
</table>

SCRATCH/SKID EFFECT: The Scratch Effect simulates real time turntable scratching. The Skid effect simulates the sudden platter stop of a turntable, like pressing the stop button on a turntable. When the Scratch Effect is activated the SCRATCH LED will flash green. Once the Scratch Effect has been activated the JOG WHEEL (13) may be used in the same fashion a turntable platter is used. Use the JOG WHEEL (13) to simulate the scratch motion on a turntable platter and to manipulate playback. When the skid effect is activated the turntable platter and to manipulate playback. When the skid effect is activated the SKID LED will flash blue. Both the Skid and Scratch time parameters can be adjusted from 0010 to 9990. 9990 will give you the longest Skid times. The Skid value ranges from a 10ms to ten seconds.
**FILTER/PHASE EFFECT:** The Filter and Phase effects tweak the original sound to add different tonal definition. When the Filter Effect is activated the FILTER LED will flash green, when the Phase Effect is selected the PHASE LED will flash blue.

**ROBOT EFFECT:** The Robot effect distorts the output to simulate a sci-fi robot voice. The Robot effect is activated in the echo parameters (see "Parameters" in the next section). To activate the Robot effect select the echo effect. After the Echo effect is activated turn the HOLD (19) function on. Use the PARAMETER TIME KNOB (21) and set the (PT) value to 0010. After "PT" value has been set, use the PARAMETER RATIO KNOB (25) to create the effect by turning it back and forth.

**FLANGER/ECHO/ROBOT EFFECT:** The Flanger effect distorts the output signal and creates an effect similar to the frequency phasing in and out of each other. The Echo effect adds an echo to your output signal. The Robot effect distorts the output to simulate a sci-fi robot voice. When the Flanger effect is selected the FLANGER LED will flash blue, when the Echo or Robot effect is selected the ECHO LED (19) will flash green.

**FLANGER EFFECT:** The Flanger effect distorts the output signal and creates an effect similar to frequencies phasing in and out of each other. The FLANGER Effect has two adjustable parameters, Parameter Time (PT) and Parameter Ratio (PR). The PT will adjust the Flanger Mode and The PR will adjust the Flanger Frequency Range (see "Parameters" in the next section).

**ECHO EFFECT:** The Echo effect adds an echo to your output signal. The Echo effect has two adjustable parameters, Parameter Time (PT) and Parameter Ratio (PR). The PR will adjust the length of the Echo (drop off time), and the PT will adjust the echo gap length (see "Parameters" in the next section). off time), and the PT will adjust the Echo gap length.
**BUILT-IN EFFECTS**

**TRANS/PAN EFFECT:** The Trans effect simulates a real-time mixer transformer effect. When the "Transformer" effect is activated the TRANS LED will flash green, when the "Pan" effect is selected the PAN LED will flash blue. The Pan effect allows you to pan the output from the left channel to the right channel.

**TRANS EFFECT:** The Trans effect has two adjustable parameters, Parameter Time and Parameter Ratio. The PT will adjust the Trans Speed and The PR will adjust the Trans Audio Length. The lower the PT value the faster the Trans effect (PT 0500 = 1/2 second, PT 1000 = 1 second).

**PAN EFFECT:** The Pan effect uses the PT value to pan left to Right. PT 0500 is the default setting which is center pan. The Pan Value ranges from 10ms to ten seconds.

**PARAMETERS:**

All the effects have adjustable parameters. The parameters change the way the effects will react. To enter the parameter menus for any of the effects, press and turn either of the two **PARAMETER KNOBS (25 OR 29)**. When the parameter mode is selected the time display in the **LCD (30)** will change to indicate the parameter you are adjusting. All effects except the pan effect have two adjustable parameters. **PARAMETER TIME (29)** and **PARAMETER RATIO (25)**. Use these knobs to customize the effects to your liking.

**HOLD BUTTON:** Use the **HOLD BUTTON (19)** to lock your customized parameters. If the hold button is not activated any changes to your parameters will be momentary. To activate the hold function press the **HOLD BUTTON (19)** as in figure 50. When the hold function becomes activated, the hold button will begin to glow red.
ACCESSING MP3 FOLDERS

ACCESS MP3 FOLDERS:

Use this function to access the different folders (files) located on your Mp3 disc.

1) Press the PARAMETER/FOLDER BUTTON (23) so that the FOLDER LED lights up. The Folder name should appear in the CHARACTER DISPLAY (48) and the Folder number will appear in the FOLDER INDICATOR (51). See page 14.

2) Now, turn the FOLDER KNOB (29) clockwise to scroll forward through the folders or turn it counter clockwise to scroll backwards through the folders.
ADVANCED TRACK SEARCH

Use this function to locate a specific track on a MP3 disc, while another track is playing at the same time.

1. Press the PARAMETER/FOLDER BUTTON (23) for 1 sec. to enter advance track search mode.
2. When this mode is active, the PARAMETER/FOLDER LED will blink, and the LCD will display the track name.

3. You can now turn either the FOLDER KNOB (29) to choose a MP3 Folder or turn the TRACK KNOB (25) to search through the MP3 tracks.
4. When you found your desired track, press the FOLDER KNOB (29), and the LCD will now display "SEARCHING.....".
5. The LCD will then display "FOUND!!", when your selection is located.

6. When "FOUND!!" is displayed in LCD, press the PARAMETER/FOLDER KNOB (23) to begin playback of your selected track. If you want to cancel Advanced Track Search without making any changes press the PARAMETER/FOLDER BUTTON (23).
FLIP-FLOP™

This feature is a kind of “auto pilot”. When you are using two CDI-500 Mp3™ players and an American Audio® “Q” Deck™ mixer, you can have one player begin playback when the other ends. You can “Flip-Flop™” single tracks, the entire disc, or a combination of the two.

To FLIP-FLOP™ single tracks:
1) Connect your system as described in the connection section on page 8.
2) Set your American Audio® “Q” Deck™ mixer’s crossfader to the center position.
3) Set your two CDI-500 Mp3s™ to playback in single mode, SINGLE (55) should be indicated in the LCD (30).
4) Load your two CDI-500 Mp3s™ with audio discs.
5) After they have both cued, press the PLAY/PAUSE BUTTON (17) on one player to begin playback.
6) After the first player’s single track has ended the second player’s track will immediately begin playback.
7) FLIP-FLOP™ will continue until you stop it or power is interrupted.

To Flip-Flop entire CDs:
Be sure your players are both in continuous play mode, make sure SINGLE MODE (55) does not appear in the LCDS (30) of both players. Follow all directions for single track FLIP-FLOP™ above. When one player’s disc ends the other player will immediately begin playback.

Note: You may combine FLIP-FLOP™ single and continuous playback modes by selecting either single or continuous playback on your units.

Connecting your CDI-500 Mp3™ to an American Audio® or an American DJ® “Q” Deck™ mixer for “Flip-Flop™” control: Be sure to connect 1/8” mono mini plugs from the control connection on the rear of your CDI-500 Mp3™ to the 1/8” control jack on the rear of American Audio® “Q” series mixer. That’s it, you’ll be set for FLIP-FLOP™.

Sample "Q" Start Set-Up. This set-up will allow "Q" start function and Flip-Flop™ function to operate. Be sure to use 1/8” mono mini plugs only.
**WARRANTY**

**WARRANTY INFORMATION:** The CDI-500 MP3™ carries a ONE year (365 days) limited warranty. This warranty covers parts and labor. Please fill out the enclosed warranty card to validate your purchase and warranty. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Please contact American Audio® customer support at (800) 322-6337 for a R.A. number. All package not displaying a R.A. number on the outside of the package will be returned to the shipper.

**1-YEAR LIMITED WARRANTY**

A. American Audio® hereby warrants, to the original purchaser, American Audio® products to be free of manufacturing defects in material and workmanship for a period of 1 Year (365 days) from the date of purchase. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner’s responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the American Audio® factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, American Audio® will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, American Audio® shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.

C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which American Audio® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the American Audio® factory unless prior written authorization was issued to purchaser by American Audio®; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. During the period specified above, American Audio® will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of American Audio® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of American Audio®. All products covered by this warranty were manufactured after January 1, 1990, and bear identifying marks to that effect.

E. American Audio® reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by American Audio® in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer’s and or Dealer’s sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall American Audio® be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

G. This warranty is the only written warranty applicable to American Audio® Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.
SPECIFICATIONS

GENERAL
Model: American Audio® CDI-500 Mp3™ - Professional CD Player
Type: Tray loading, digital compact disc audio player.
Disc type: Standard size compact discs only (5 in/12 cm and 3 in/8 cm)
Applicable File Extensions for Mp3s: mp3, MP3, mP3, and Mp3
Pitch Range: Within +/- 4%, +/- 8%, +/- 16%, +/- 100%
Pitch Accuracy: 0.15%
Dimensions: 348mm (W) x 246mm (D) x 106mm (H)
Installation: Place on flat surface or mount in flat case
Weight: 8.2 Lbs. / 3.7 Kgs
Power supply: AC 115/230V, 50/60Hz
AC 100V, 50/60Hz (Japan)
AC 110V, 60Hz (Colombia)
AC 120V, 60Hz (U.S.A. and Canada)
AC 127V, 60Hz (Mexico)
AC 220V, 50Hz (Chile and Argentina)
AC 220V, 60Hz (Philippines and Korea)
AC 230V, 50Hz (Europe, New Zealand, South Africa, and Singapore)
AC 240V, 50Hz (Australia and U.K.)
Power consumption: 17W
Environmental conditions: Operational temperature: 5 to 35˚C (41 to 95˚F)
Operational humidity: 25 to 85% RH (no condensation)
Storage temperature: -20 to 60˚C (4 to 140˚F)
Accessories: Connecting RCA Cable (1 set for left and right channels)
Control 1/8" miniplugs type (3 feet)

AUDIO SECTION
Quantization: 16 bit linear per channel
Sampling rate: 44.1 kHz at normal pitch
Over sampling rate: 8 times
D/A conversion 16 bit
Frequency response: +/- 1 dB 20 Hz to 20,000 Hz
Output level: 1.4V +/- 1dB
Load impedance: 47k ohm or more

AUDIO CHARACTERISTICS (TEST DISC: TCD-782, LOAD=47 Kohm)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>NOMINAL</th>
<th>LIMIT</th>
<th>CONDITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output level</td>
<td>1.4Vrms +/- 0.5dB</td>
<td>1.4Vrms +/- 1dB</td>
<td>1KHz,0dB</td>
</tr>
<tr>
<td>Channel balance</td>
<td>within 0.2dB</td>
<td>within 1dB</td>
<td>1KHz,0dB</td>
</tr>
<tr>
<td>Frequency response</td>
<td>20Hz-20KHz, +/- 0.4dB</td>
<td>20Hz-20KHz, +/- 1dB</td>
<td>0dB Output</td>
</tr>
<tr>
<td>De-emphasis response</td>
<td>+/- 0.2dB</td>
<td>+/- 1dB</td>
<td>16KHz,-20dB</td>
</tr>
<tr>
<td>Channel separation*</td>
<td>90dB</td>
<td>85dB</td>
<td>1KHz,0dB</td>
</tr>
<tr>
<td>T.H.D. + NOISE*1</td>
<td>0.006%</td>
<td>0.01%</td>
<td>1KHz,0dB</td>
</tr>
<tr>
<td>S/N ratio (IHF-A)*2</td>
<td>120dB</td>
<td>90dB</td>
<td>1KHz,0dB</td>
</tr>
</tbody>
</table>

NOTE: 1* With 20KHz low pass filter. 2 With 20KHz low pass filter, "IHF-A" weighted

SEARCHING TIME (TEST DISC: TCD-792)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>NOMINAL</th>
<th>LIMITS</th>
<th>CONDITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short access time</td>
<td>2sec</td>
<td>4sec</td>
<td>Play next track</td>
</tr>
<tr>
<td>Long access time</td>
<td>4sec</td>
<td>6sec</td>
<td>Track 1 -&gt; Track 20</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Track 20 -&gt; Track 1</td>
</tr>
</tbody>
</table>

PLAYABILITY

<table>
<thead>
<tr>
<th>ITEM</th>
<th>NOMINAL</th>
<th>LIMIT</th>
<th>CONDITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interruption</td>
<td>1mm</td>
<td>0.7mm</td>
<td>TCD-725</td>
</tr>
<tr>
<td>Black dot</td>
<td>1mm</td>
<td>0.6mm</td>
<td>TCD-725</td>
</tr>
<tr>
<td>Finger prints</td>
<td>75um</td>
<td>65um</td>
<td>TCD-725</td>
</tr>
<tr>
<td>Eccentricity</td>
<td>140um</td>
<td>140um</td>
<td>TCD-712 W/O TRACK JUMP</td>
</tr>
<tr>
<td>Vertical deviation</td>
<td>1mm</td>
<td>0.5mm</td>
<td>TCD-731R</td>
</tr>
</tbody>
</table>

PICK-UP
System                     | Object lens drive system optical pick-up |
Object lens drive system    | 2 dimensional parallel drive |
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Tracking detection</th>
<th>3 spot beam detection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optical source</td>
<td>Semiconductor laser</td>
</tr>
<tr>
<td>Wave length</td>
<td>780nm</td>
</tr>
</tbody>
</table>

**NOTES:** Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.