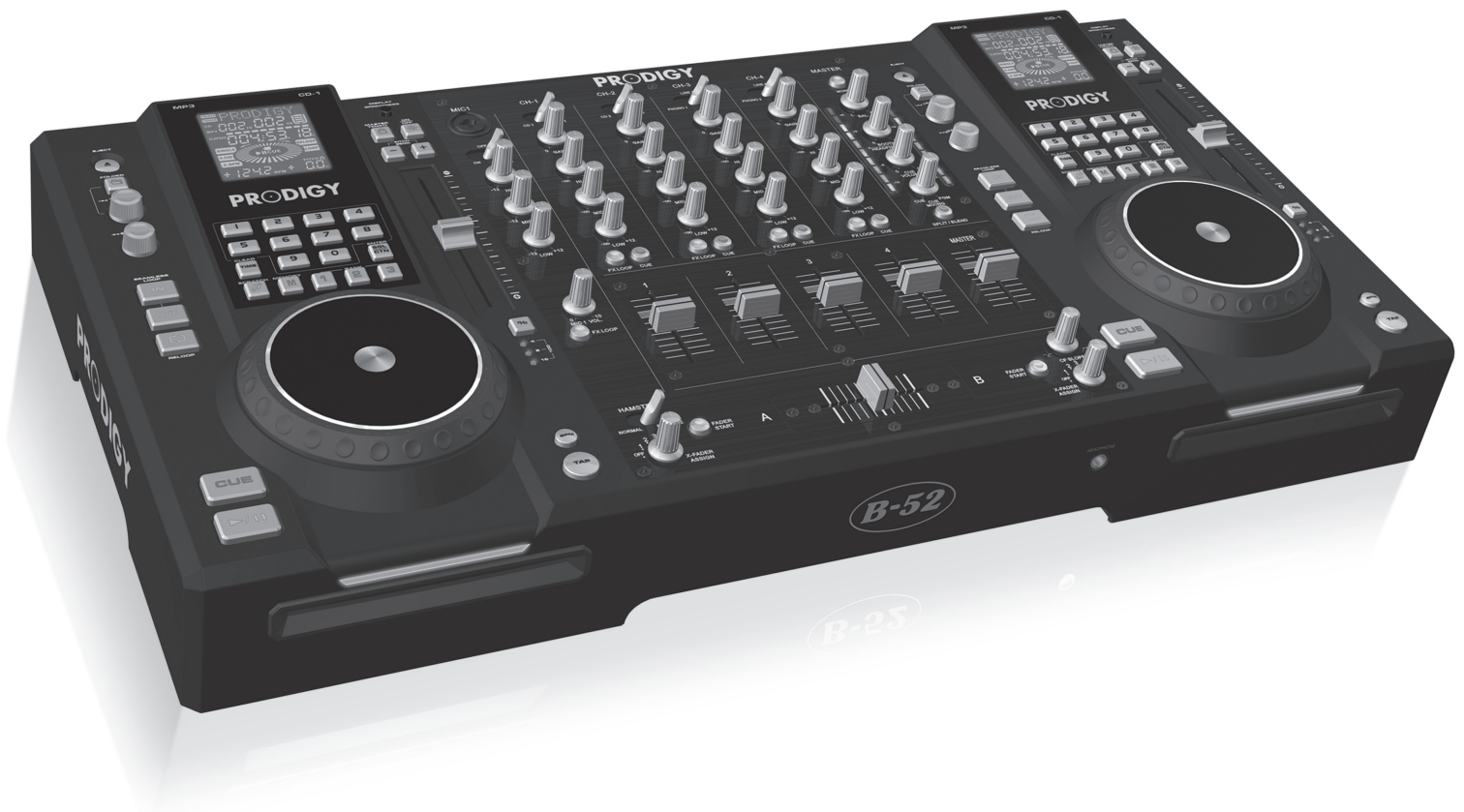


# **B-52** PRODIGY

Professional Dual CD-MP3 Player / 4-Channel VCA Mixer



- ✧ *Revolutionary DJ Workstation Design*
- ✧ *High Performance 4-Channel VCA Mixer*
- ✧ *Two Scratching CD/MP3 Players*

[www.PRODIGYFX.com](http://www.PRODIGYFX.com)

**INSTRUCTION AND USER'S MANUAL**



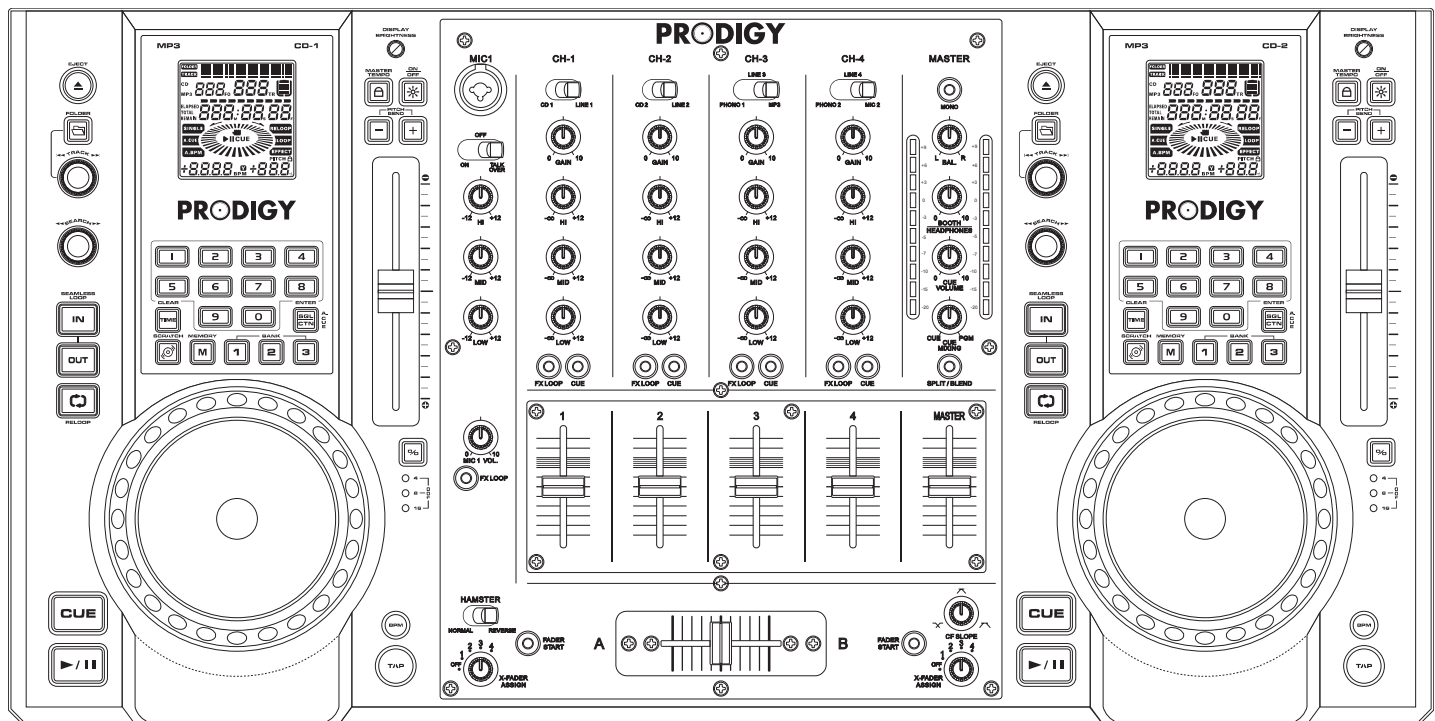
# CONTENTS

Introduction .....	3
Warnings and Symbols.....	4
Important Safety Instructions .....	5
Voltage, Unpacking, Usage.....	6
Customer Support, Set-up Guidelines .....	7
Connecting the Prodigy.....	8
Features .....	9
Workstation Functions.....	10
Customization and Memory .....	11-12
CD Player Controls.....	13-16
LCD Display .....	18-19
Mixer Controls and Functions .....	20-23
Front Panel.....	24
Rear Panel Controls and Connectors.....	25-26
Operations.....	27-30
Troubleshooting .....	31
Connecting 3rd Party Hardware .....	31
Specifications .....	32
Warranty .....	33
Contact B-52 Professional .....	36



PRECISION FOR YOUR PASSION

**PRODIGY**



# **WELCOME TO THE B-52 FAMILY**

**Thank you for purchasing the revolutionary Prodigy Professional DJ Workstation.**

The Prodigy is a state-of-the-art professional dual CD-MP3 player and VCA mixer combo. The Prodigy is a feature-laden DJ WorkStation ideal for compact disc replay and MP3 digital technology, offering music professionals - of virtually any level - the ultimate gigging solution.

The Prodigy is a complex and highly advanced electronic device. Please read this instruction manual thoroughly before using your Prodigy. Heed all warnings in this instruction manual and on the unit itself.

There are many features unique to the Prodigy. This instruction manual provides you with all the help needed to operate and utilize all the features of the Prodigy.

The Prodigy is an extremely versatile workstation and can easily be customized to suit all of your musical desires not just from gig to gig but from track to track.

The Prodigy allows you to adjust a wide variety of parameters on the fly. You can also memorize CUE points from the discs or MP3s you are playing and work them seamlessly into your performance.

It is imperative that you read and understand all the warnings in this manual regarding proper usage, service and safety. Failing to comply with any of these safety and operation warnings may void your warranty.

For more information about your Prodigy, log on to: <http://www.ProdigyFX.com> - [www.B-52Pro.com](http://www.B-52Pro.com) - or call our customer service support hotline (toll free) at 800-344-4384 or (+1) 323-277-4100.

**Thank you again for your purchase of the Prodigy.**



# IMPORTANT INFORMATION

Please keep this instruction manual for future reference and for the duration of you owning the Prodigy. Please carefully read and comprehend the instructions inside this user's manual before attempting to operate the Prodigy.

This instruction manual includes essential safety information regarding the use and maintenance of the Prodigy. Take special care to heed all warning symbols and signs inside this manual and those printed on the unit itself.



## WARNING

TO PREVENT FIRE OR SHOCK HAZARD, **DO NOT** EXPOSE THE PRODIGY UNIT TO WATER OR MOISTURE. DO NOT OPERATE NEAR ANY WATER SOURCE



## WHAT'S THE MEANING OF THIS?

*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*

- 1) Read these instructions.
- 2) Follow all instructions.
- 3) Keep these instructions.
- 4) Heed all warnings.
- 5) **DO NOT** turn on the Prodigy before connecting all other external devices.
- 6) Do not use the Prodigy near water. Be extra cautious when moving the Prodigy during rain or while transporting it over wet surfaces as water might splash onto the unit.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings and operate in accordance with manufacturer's instructions.
- 8) Do not install near heat sources such as radiators, stoves or other devices that may produce heat.
- 9) Do not defeat the safety purpose of the polarization or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched, particularly at the plug and the point where it exits the Prodigy.



## WHAT'S THE MEANING OF THIS?

*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 Prodigy*

- 11) Only use attachments / accessories specified by B-52 Professional.
- 12) Unplug the Prodigy during lightning storms and when not in use.
- 13) Refer all servicing to qualified personnel. Servicing may be required when the unit has been damaged in any way such as when power-cord or plug is damaged, liquid has been spilled into the unit, the unit has been exposed to moisture or rain, does not operate normally, or has been dropped.
- 14) To reduce the risk of fire or electric shock, do not expose the Prodigy to rain or moisture.
- 15) Moisture can damage the Prodigy and can cause corrosion of electrical contacts.
- 16) Keep the unit out of extended or intense direct sun light. No containers filled with any type of liquid should be placed on or near the Prodigy.

## WARNING



Handle the power supply cord with care. 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 power cord.





# IMPORTANT SAFETY PRECAUTIONS

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

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

**3. HEED WARNINGS** – All warnings on the appliance and in the operating instructions should be adhered to.

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

**5. WATER AND MOISTURE** – The appliance should not be used near water - for example, a bathtub, washbowl, kitchen sink, laundry tub, wet basement, or near a swimming pool, and the like.

**6. CARTS AND STANDS** – The appliance should be used only with a cart or stand that is recommended by the manufacturer.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



**7. WALL OR CEILING MOUNTING** – The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

**8. HEAT** – Appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

**9. POWER SOURCES** – This product should be operated only from the type of power source indicated on the rating label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer the operating instructions.

**10. GROUNDING OR POLARIZATION** – This product may be equipped with a polarized alternation-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

**11. 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 the cord in correspondence of plugs, convenience receptacles, and

the point where they exit from the appliance.

**12. CLEANING** – The appliance should be cleaned only as recommended by the manufacturer. Clean by wiping with a cloth slightly damp with water. Avoid getting water inside the appliance.

**13. FOR AC LINE POWERED UNITS** – Before returning repaired unit to user, use an ohm-meter to measure from both AC plug blades to all exposed metallic parts. The resistance should be more than 100,000 ohms.

**14. NON-USE PERIODS** – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

**15. OBJECT AND LIQUID ENTRY** – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

**16. DAMAGE REQUIRING SERVICE** – The appliance should be serviced by qualified service personnel when:

- A. The power-supply cord or the plug has been damaged; or
- B. Objects have fallen, or liquid has been spilled into the appliance; or
- C. The appliance has been exposed to rain; or
- D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
- E. The appliance has been dropped, or the enclosure damaged.

**17. SERVICING** – The user should not attempt any service to the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

**18. 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 not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is the manufacturer's instructions have been adhered to.

**19. ATTACHMENTS** – do not use attachments not recommended by the product manufacturer as they may cause hazards.

**20. 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.

**21. 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.

**22. 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.

**23. 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.



**CAUTION**  
DO NOT OPEN  
RISK OF ELECTRIC SHOCK



**CAUTION:** To reduce the risk of electric shock, do not remove any cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.



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

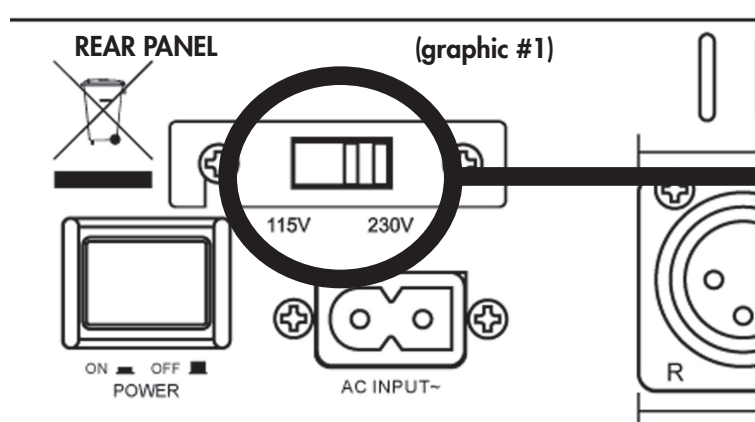


The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.

## CAUTION

To prevent electric shock, do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

# VOLTAGE SELECTOR



### LINE VOLTAGE SELECTION (graphic #1)

- The necessary line-in voltage may be set with the VOLTAGE SELECTOR switch on the rear panel of the Prodigy (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, contact a qualified service technician.

# UNPACKING YOUR WORKSTATION

Each Prodigy unit has been extensively tested and shipped in complete working order. Before unpacking your new workstation, examine the shipping packaging for any damage that may have occurred during transportation. If the carton appears to be damaged, thoroughly inspect your Prodigy for any external damage. Ensure all equipment necessary to operate the workstation has arrived intact. In the unlikely event the unit has been damaged or parts are missing, immediately contact our toll free customer support number - **800-344-4384** - for further instructions. Do not return the Prodigy to your dealer without first contacting our customer support center.

# USING YOUR WORKSTATION

Connect all external devices before plugging the Prodigy in to an electrical source. Set all fader and volume controls to zero or their default positions, before turning on the Prodigy. If the Prodigy has been exposed to any extreme temperature fluctuations (during transportation, in storage or at your venue), do not power up the unit immediately. The resulting condensation of water might damage your unit. Power up your Prodigy only when the unit has approximately reached room temperature.

### Operation factors:

- When setting up the Prodigy, ensure the unit is not exposed to, or will not be exposed to, extreme heat, moisture or dust.
- Do not operate the unit in excessively hot (more than 30°C/86°F) or extremely cold (less than 5°C/41°F) environments.
- Keep the unit out of direct sunlight and away from heat sources.
- Operate the Prodigy only after becoming familiar with its functions. Do not allow any other person to operate your Prodigy who is not experienced enough to use the unit. Damage often occurs as a result of unprofessional operation.



# **WE ARE HERE FOR YOU**

B-52 Professional offers a toll free customer support line to help answer any questions you have about your new Prodigy and its operation. Please visit us on the web at [www.ProdigyFX.com](http://www.ProdigyFX.com) or [www.B-52Pro.com](http://www.B-52Pro.com) to download this instruction manual in the event that you misplace your original version.

The B-52 Professional Customer Support Center is open from Monday to Friday 9am to 4:30pm US Pacific Standard Time.

TOLL FREE: 800-344-4384  
TELEPHONE: +1-323-277-4100  
FAX: +1-323-277-4108  
EMAIL: [Information@B-52Pro.com](mailto:Information@B-52Pro.com)  
[Service@B-52Pro.com](mailto:Service@B-52Pro.com)

**ALERT!** There are no user serviceable parts inside the Prodigy. Do not attempt to repair the Prodigy yourself, without being specifically instructed to do so by an authorized B-52 Professional technician. Attempting to service the Prodigy by yourself will immediately void your manufacturer's warranty. In the unlikely event your workstation requires servicing, please contact B-52 Professional customer support for further instructions. Please keep your packaging material as this will be required if sending your unit to the B-52 Professional Service Center for repairs.

## **IMPORTANT SET-UP GUIDELINES**

**TO ENSURE THE HIGHEST QUALITY OF MUSIC REPLAY, FOLLOW THESE GUIDELINES\*:**

1. Use high quality CD-R audio discs (they should conform to the standards of the Orange Book 2).
2. Use a high quality bit rate when burning discs (160kbps recommended).
3. Burn discs at the slowest speed possible to maximize playback quality. (i.e. 2x or 4x speed)

### **1. Checking the Contents**

Be sure your Prodigy was shipped with the following:

- 1) Prodigy
- 2) Operating instructions (this booklet).
- 3) Warranty and return card.

### **2. Installing the Prodigy**

Place your unit on a flat surface to ensure proper operation

### **3. Connections**

- 1) Connect master output balanced XLRs or unbalanced RCAs from your Prodigy outputs to the inputs on your sound system.
- 2) Ensure power is connected before turning on the unit.

**\* DISCLAIMER:** The Prodigy will operate normally with most CD-R and CD-RW formatted music discs but B-52 Professional cannot guarantee all CD-R and CD-RW formatted discs will operate normally and/or reproduce sound at the highest possible quality as there are many varieties of varying quality discs available for purchase.

**IMPORTANT:** The Prodigy will operate only when using 12cm (5") CD, CD-R and CD-RW discs. Do not put mini CDs, CD-R or CD-RW discs or specially shaped discs in your Prodigy. Misuse, aging or excessive scratches on CDs will also affect the ability of the Prodigy to successfully read discs.

**Continued Next Page**



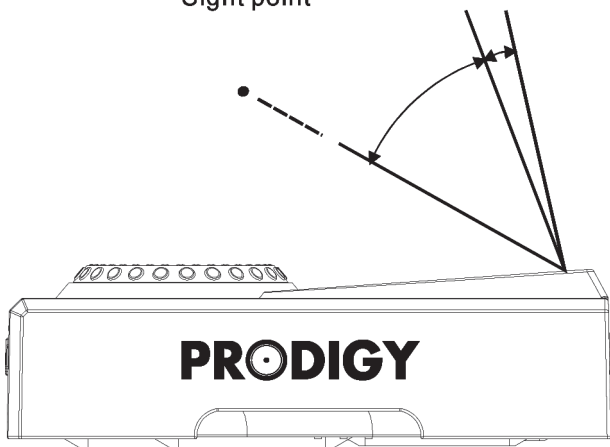
### WARNING:

- To avoid severe damage to the unit, be sure the power is off when connecting any and all external devices and accessories to the unit.

### WARNING:

- The Prodigy will work normally when the workstation is mounted with the front panel within 15° of the vertical plane. If the unit is tilted excessively, discs may not load or unload correctly.

Sight point

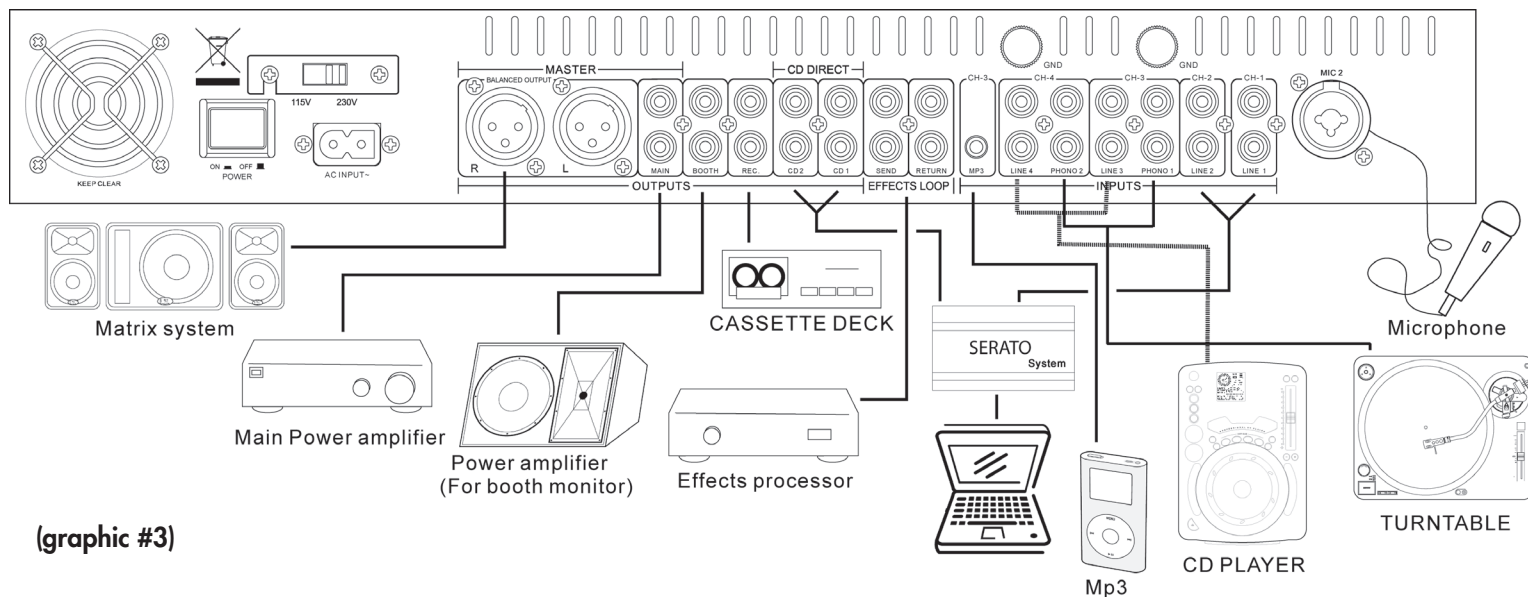


### WARNING: (graphic #2)

- The LCD is designed to be clearly visible within the angles shown (left). Mount or place the Prodigy so your visual angle is within this range.

## CONNECTING THE PRODIGY

This diagram (graphic #3) shows the basic connections to external devices available through the Prodigy workstation. This unit is extremely versatile and is a complete audio solution for music professionals.



(graphic #3)





# ALL THE FEATURES

## **CD/MP3 PLAYER FEATURES**

- Plays all formats of CD, CDRW and MP3 files with full functionality
- Dual mode touch sensitive jog wheel
- Seamless loop with on-the-fly access to loop editing
- Independent buffer memory anti-shock for each player
- Accurate 1/75<sup>th</sup> second frame search
- 1-bit digital-to-analog converters with 8-times over-sampling
- Integrated fader start and relay playback
- Pitch control & master tempo with up to +/- 100% shift range on CDs and up to +/- 16% on MP3
- Oversized high contrast green LCD display with wide viewing angle and brightness control
- True instant start for both CD and MP3 operations
- Easy MP3 file search by folder, file name, title or artist
- Dual mode scratching
- Auto BPM or manual TAP tempo
- Three hot cue points
- Three independent memory banks can remember up to 1500 cue points
- Slot loading transports with green LED illuminator
- Independent reset for each CD/MP3 player provides fail-safe disk jamming protection
- Built-in memory to save settings (memory is upgradeable)

## **VCA MIXER FEATURES**

- 4-channel VCA mixer with flexible input configurations
- 4 LINE, 2 PHONO, 1 MP3 and 2 XLR / 1/4" MIC inputs
- High-quality crossfader
- Effects loop with independent assign button on each channel
- Balanced master XLR outputs plus booth, master and record
- Hamster switch
- Rotary crossfader curve control
- 3-band EQ on each channel with  $-\infty$  to +12dB range
- Dual mode SPLIT/BLEND headphone monitoring
- 10 segment tri-colored LED metering on outputs
- Master MONO switch
- Voltage selectable power supply for worldwide use
- Analog direct CD outputs from CD players and line inputs on mixer allow using Serato™, Torq™ and other time code based systems\*

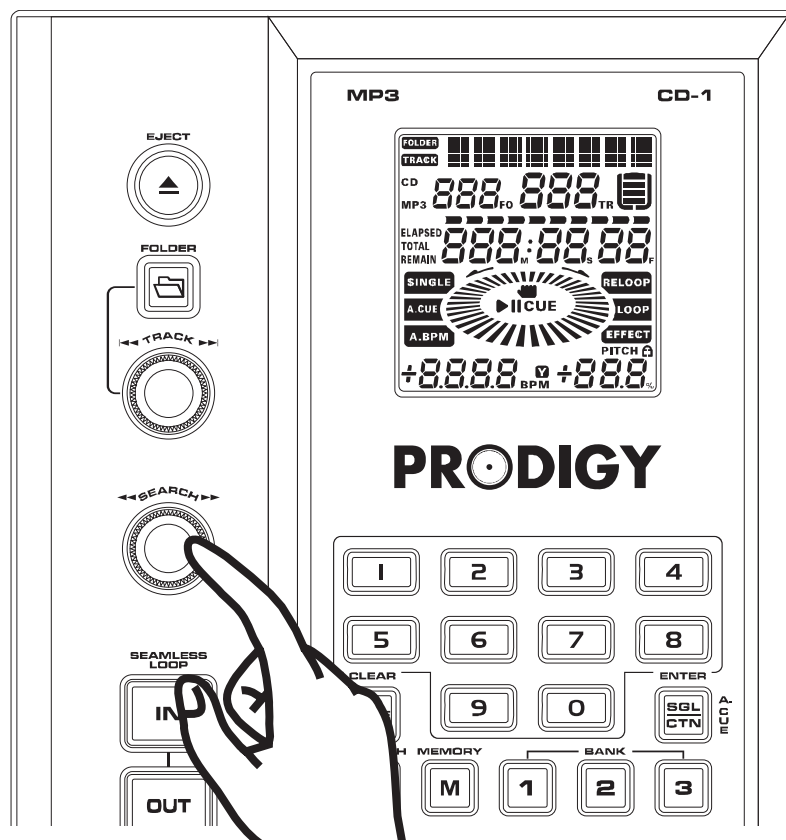
\* Serato and Torq are registered trademarks of their respective manufacturers

# WORKSTATION FUNCTIONALITY

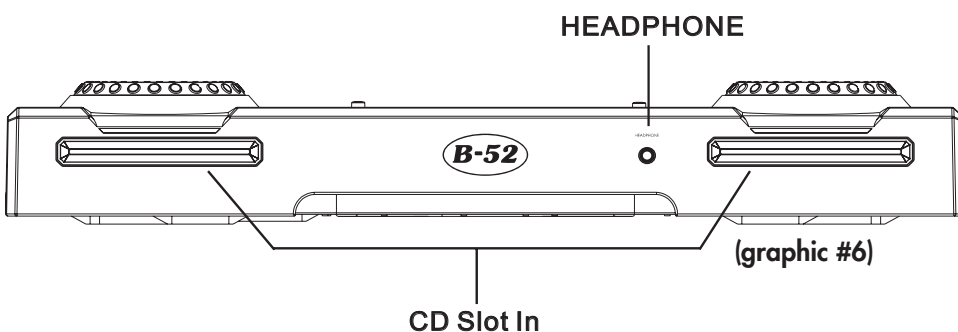
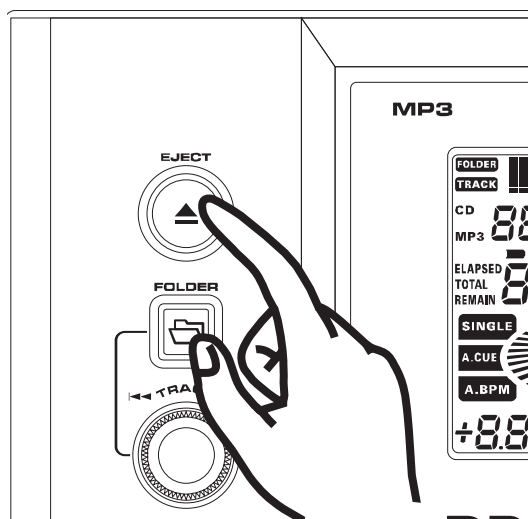
(graphic #4)

## MASTER RESET: (graphic #4)

With unit switched off, turn the SEARCH control located on the Left CD player completely counterclockwise. Hold it in this position and turn the unit ON using the power switch. The Left LCD will display <clearALL> on the top line. Once the <clearALL> line automatically disappears, release the SEARCH knob. The Left CD player has now been reset. Repeat the same procedure to reset the Right CD Player using the SEARCH control located on the Right CD player.



(graphic #5)



## IN THE UNLIKELY EVENT YOUR CD BECOMES STUCK:

The Prodigy is equipped with state-of-the-art slot-loading CD mechanisms (graphic #6). The Prodigy offers an emergency CD ejection procedure that ensures your gig won't stop in the unlikely event a CD becomes stuck in the unit or if the CD does not eject normally at any time during operation. If an error message is displayed on the LCD or if the CD fails to eject, press and hold the EJECT button for 5 seconds (graphic #5). Release the EJECT button once RESET is displayed. The individual CD player - left or right - will reset and the CD will automatically eject after a few seconds. This function operates independently of the other CD player and mixer, thus ensuring that your gig is uninterrupted.

- **NOTE:** In the unlikely event that the procedure described above should not remedy the situation, turn the unit off for 10 seconds to completely reset the Prodigy and then turn the unit back on.



# CUSTOMIZATION and MEMORY

Your Prodigy can be customized to produce virtually any sound you desire. Please follow these instructions below to help reach your goal.

**DISPLAY SETTINGS:** You can access SLEEP TIME, RUN TIME and STOP TIME settings by pressing TRACK knob while holding down the TIME button. You will see SLEEP on display. You can switch to RUN TIME and STOP TIME by turning TRACK knob by a click. To change either of them, press TRACK knob one more time once you see SLEEP, RUN TIME or STOP TIME on display. You will see current value on display; you can adjust it now by rotating TRACK knob. You can return to previous menu by pressing TRACK again or you can exit by pressing TIME knob. **(graphic #7)**

— **SLEEP TIME** is the time after which the CD player will go to SLEEP mode if no controls are operated. The default setting is 45 min. It can be adjusted from 0 min

to 120 minutes in 5-minute increments. “Zero” minutes equals “no sleep” but this decreases the life span of the CD lasers. Set a SLEEP TIME, such as 15 minutes, to maximize the lifespan of the unit’s lasers and CD mechanisms.

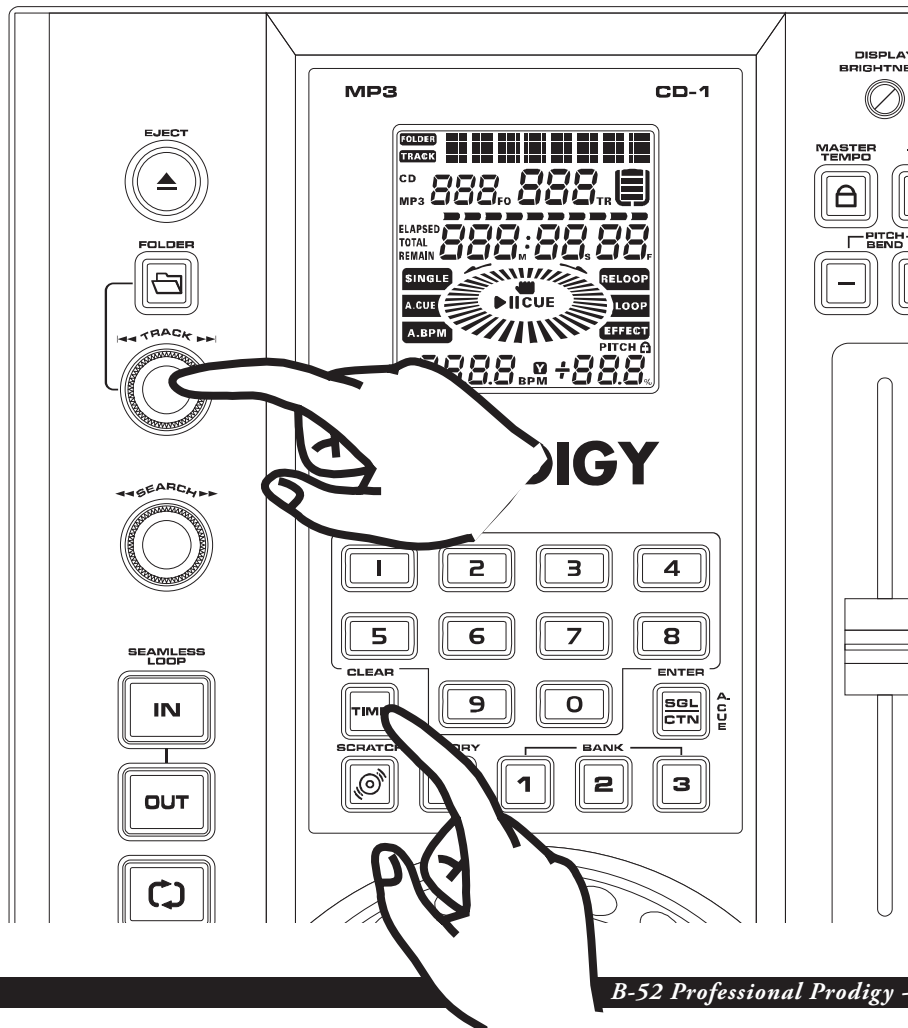
- **TIP:** If the CD player goes into SLEEP mode, you can return it to normal operation by pressing the CUE or PLAY buttons.

— **STOP TIME** indicates how long the running line on the LCD display stays still before it starts moving when new track is selected. Default is set to 1 second and can be adjusted from 0.5 seconds to 20 seconds in 0.5 second increments.

— **RUN TIME** is used to set the speed of running line, when a track’s info is displayed. Default is set to 400 msec (0.4 seconds), and can be adjusted from 20 msec to 1 sec in 20 msec increments.

**Continued Next Page**

(graphic #7)



# CUSTOMIZATION and MEMORY (cont.)

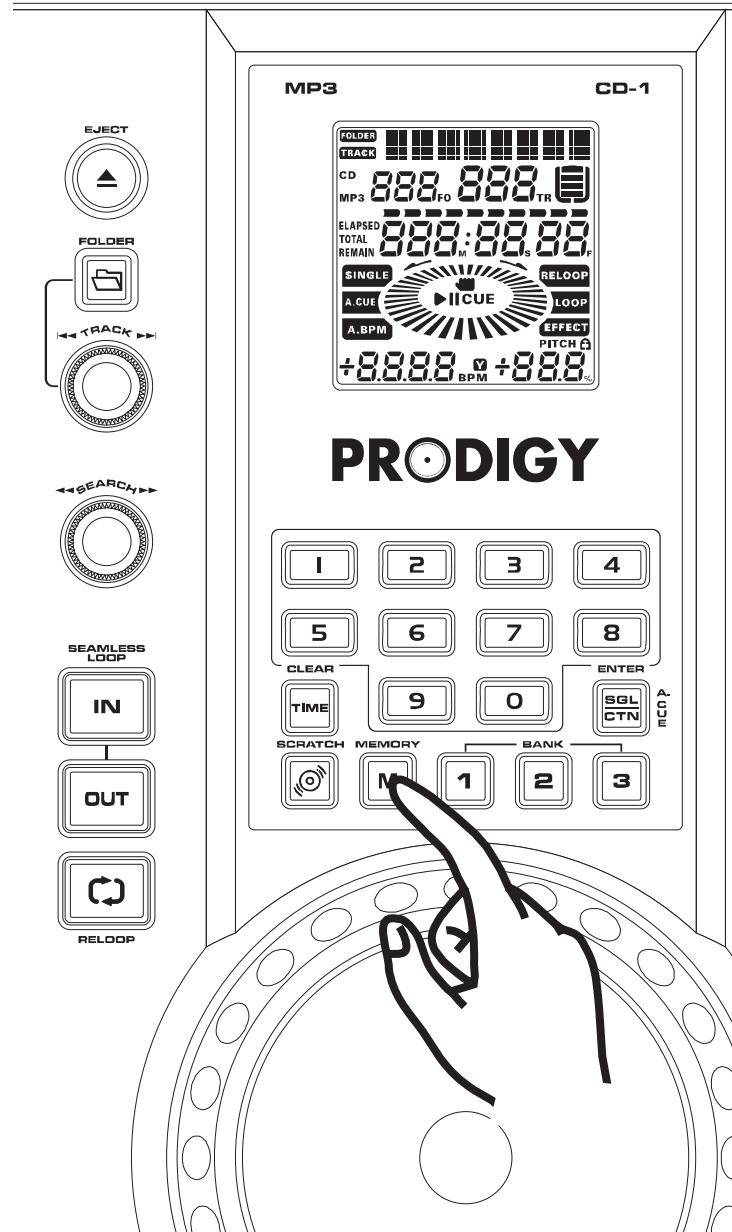
— **MEMORY BACK-UP:** The Prodigy has memory back-up, so when you turn the unit off, it keeps the parameters that you programmed into memory. To memorize these new parameters, press and hold the MEMORY button for two seconds, you will see SAVING flashing at the top of LCD display. Once this message disappears, CUE points, and the last mode (i.e. PITCH ON/OFF, PITCH %, SGL/CTN, AUTO CUE, time mode, MASTER TEMPO, EFFECTS ON/OFF, Sleep/Stop/Run time) are now saved **(graphic #8)**.

— **MEMORIZE and RECALL CUE MEMORY.** Your Prodigy comes with memory storage. You can keep CUE points assigned to the 3 memory banks in the CD players' memory even after the CDs are ejected. To commit CUE points to memory, press and hold the memory button for 2 seconds before ejecting the CD. You will see SAVING flashing at the top of the display. Once this message disappears, the CUE points are saved and they will be kept in CD player's memory even after CD was ejected. When you put a new CD in the player, you can memorize a new CUE points for this CD as well. When you want to play the first CD again, recall its memorized CUE points by momentarily pressing the MEMORY button before inserting that specific CD into the player. You will see a RECALL message on the display and then a READING message. All your memorized settings and CUE points can be now recalled from memory and ready to use.

- **NOTE:** It is the same procedure as MEMORY BACK-UP above, so in addition to memorizing CUE points it also MEMORIZES current settings.
- **NOTE:** You can memorize about 1500 total CUEs depending on the size of your unit's memory, 500 per bank. Once there is no space left in memory, you can still memorize new CUEs and settings for new CDs but data for oldest memorized CDs will be overwritten in the same sequence as it was recorded.
- **TIP:** You can erase the memory completely using the MASTER RESET procedure.

— **RECALL FIRMWARE VERSION.** You can check the firmware version of your CD player by pressing and holding the SCRATCH and TIME buttons together for 15 seconds.

(graphic #8)





# CD PLAYER AND DIRECT ACCESS CONTROLS

**1. EJECT BUTTON:** Press this button to eject a disc. The disc will not eject unless the player is in CUE or PAUSE mode; this is to prevent accidentally ejecting the disc when in play mode.

**2. FOLDER BUTTON:** Use to switch between FOLDER and TRACK modes. When the FOLDER button is lit with red LED, the CD player is in the FOLDER mode, otherwise it is TRACK mode.

- **NOTE:** In FOLDER mode you will see the number of the current folder on display and track number within this folder. In TRACK mode, the track number will be displayed as its number on the disc, not as its number within a folder.

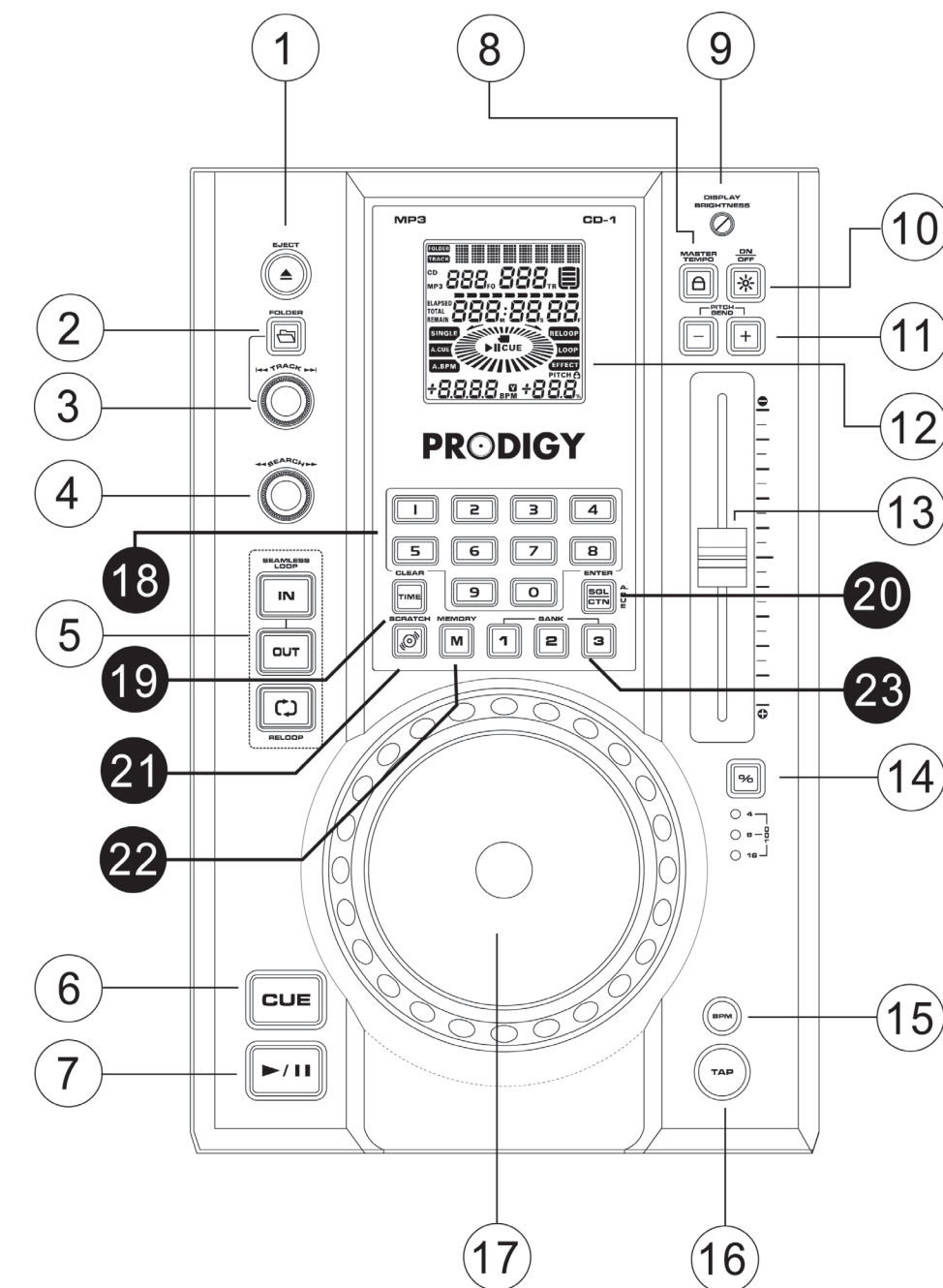
- **NOTE:** Many CDs don't have any folders on them; in this case 001 folder number will be displayed.

**3. TRACK KNOB:** Use this knob to select track or folder, depending on the mode.

- In TRACK mode, use to select a track. Turning track knob will navigate between tracks. Holding down and turning track knob will rapidly forward / back skip through the tracks by 10 tracks per click.

- In FOLDER mode, turning track knob will forward / back skip to tracks same as in TRACK mode but holding down and turning track knob will forward / back skip between folders.

- **TIP:** You can switch between displaying FILE NAME / TITLE / ARTIST for easy searching. To do this, press and hold the



TRACK button for about 2 seconds. You will see message FILENAME, TITLE, and ARTIST flashing on the display in sequence. Release the TRACK button when you see the information you want to keep on the display.

**4. SEARCH KNOB:** Use to search / fast-forward / fast-reverse within a track while it is playing. The Search knob has 4 forward and 4 reverse speed positions, allowing you to

**Continued next Page**





### From Previous Page

quickly scan through tracks. The more you turn the knob in either direction the faster you search.

### 5. SEAMLESS LOOP.

— **IN button:** Use to set a CUE point without interrupting music (cue-on-the-fly). This button also sets the starting point of a seamless loop.

— **OUT button:** Use this to set the ending point of a loop. A loop is started by pressing the IN button, pressing the OUT button sets the end point of the loop. The loop will continue to play until the OUT button is pressed again.

— **RELOOP button:** If the seamless loop IN and OUT points have been previously set 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. LOOP and RELOOP will appear in the LCD display when the reloop function is available. During play mode, pressing the RELOOP will instantly return play to the last set CUE point without interrupting the music.

- **TIP:** You may edit the end of the loop by pressing down the RELOOP button for 2 seconds. You will see the track time displayed at the top of the LCD. Use the JOG WHEEL to edit your loop. Once you set it, press the RELOOP or OUT buttons to exit. (see the operations section later in this manual for additional details).

- **TIP:** If you create a very short loop by moving the OUT point very close to IN point by editing

loop as described above, you will have BOP / stutter effect on your Prodigy.

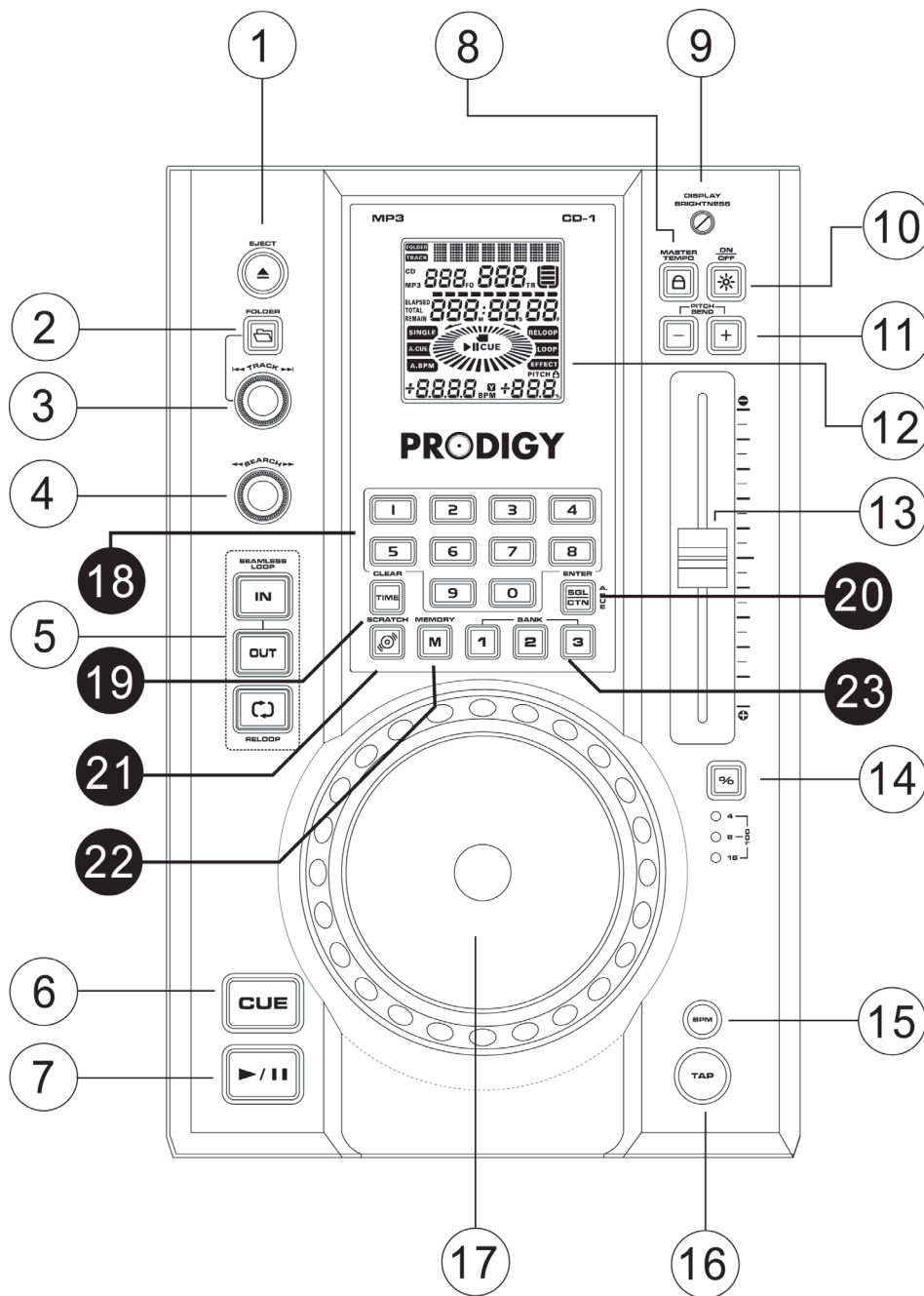
**6. CUE button:** Pressing the CUE button during playback immediately pauses playback and returns the track to the last set CUE point. The red CUE LED will light when the CD is at the cue point. When the CD is in pause mode and a cue point is set, pressing and holding the CUE

button will monitor cue.

- **TIP:** You can also use IN button to set a CUE point.

**7. PLAY/PAUSE button:** Press once to change from play to pause or from pause to play. The button will light green in play mode and flash green in pause mode.

**8. MASTER TEMPO:** Activates the tempo lock mode. Tempo lock mode allows speeding a record up or





slowing it down without altering the pitch of the music. When the tempo lock mode is selected, the button glows red. PITCH ON/OFF button must be turned ON to control the speed with the PITCH SLIDER.

- **TIP:** Holding down the MASTER TEMPO button and turning TRACK knob at the same time will scroll track info on a running line at the top of the display.

**9. DISPLAY BRIGHTNESS:** Use to adjust the brightness of the Prodigy's display.

**10. PITCH ON/OFF button:** Use to turn the PITCH SLIDER function on and off. When ON, the button will glow red.

**11. PITCH / BEND buttons:** Press these buttons to momentarily decrease (-) or increase (+) pitch to the desired value; pitch returns to the original value when the button is released. PITCH BEND will change the pitch within a range set by PITCH SELECT BUTTON (14).

- **TIP:** It will add to the pitch shift set by PITCH SLIDER, but not higher than a set range. Pressing and holding PITCH BEND buttons will change pitch to a maximum value within preset range. You will see a momentary change of BPM on display, but not a change in PITCH PERCENTAGE on the display, as the latter is reserved for PITCH SLIDER.

**12. LCD DISPLAY:** Provides you with a visual interface to monitor the Prodigy's complete operations.

**13. PITCH SLIDER:** Use to adjust the playback pitch within the range set by PITCH SELECT button (14). Also use to adjust the music tempo (playback speed) when MASTER TEMPO is activated.

**14. PITCH SELECT button (4%, 8%,**

**16%, 100%):** Press the button in order to change pitch adjustment and tempo control range to 4%, 8%, 16%, or 100%. Default is 8% range.

- **NOTE:** If you are playing MP3 records, you can only change pitch and master tempo within 4%, 8% or 16% range.

**15. BPM button:** Use to switch between auto BPM and manual BPM modes.

**16. TAP button:** Use the TAP button for manual adjustment of the BPM. Tap with your finger on the TAP button until the display shows a new BPM value.

- **TIP:** Pressing the TAP button deactivates AUTO BPM.

**17. JOG WHEEL:** The touch-sensitive jog wheel is the main multi-functional instrument which controls many functions of the CD players. Refer to the OPERATION section for more details.

Basically, the JOG WHEEL has four functions:

— THE JOG WHEEL will act as a frame search control when CD player is in the PAUSE or CUE mode, allowing you to set a CUE point with frame by frame precision.

— THE JOG WHEEL also works as a pitch bend during playback. Turning the wheel clockwise will increase pitch up to 100%, and turning the wheel in the counterclockwise direction will decrease pitch down to -100%. The pitch bend is based on how long you turn the jog wheel continuously.

— THE JOG WHEEL also controls the BOP function. While in a SCRATCH CUE mode, you can jump to CUE (IN) point by simply touching the WHEEL. When you touch, release and touch again JOG WHEEL fast, you simulate BOP effect.

Alternatively, while in a RELOOP mode, you can adjust OUT point of a loop by pressing RELOOP for two seconds and turning a WHEEL – you will see length of the loop on RUNNING LANE. If you make a loop very short, you get BOP / stutter effect.

— THE JOG WHEEL is also your scratch platter when SCRATCH button is activated. In SCRATCH CUE mode you can also use the WHEEL to jump to CUE point for scratching by simply touching top of the WHEEL.

**18. DIRECT ACCESS** 1 to 10 keypad, used for convenient access to the track you want. Just dial track number and press ENTER (SGL/CTN) to confirm. Pressing CLEAR (TIME) button will clear selected track. It will also clear if you don't press ENTER for few seconds.

- **TIP:** When you dial track number, you can see TOTAL number of tracks blinking on LCD display for your reference.

**19. TIME:** This button will switch the time shown on display between elapsed play time, track remaining time and total remaining time.

- **NOTE:** If you are playing MP3 records, you can only toggle between elapsed play time and track remaining time.

**20. SGL/CTN:** This button allows you to choose between single track playback and continuous track playback (all tracks in order). When SINGLE mode is activated, it will indicate on the display.

- **NOTE:** This button works as ENTER when you are in a DIRECT ACCESS mode.

- **TIP:** When FADER START is on, and SINGLE mode is activated and another CD player

**Continued next Page**



### From Previous Page

with CD in it is on PAUSE, this CD will start playing after current track of your CD ends.

- **TIP:** This button is also used to activate and deactivate AUTO CUE mode. To execute, press and hold SGL/CTN for one second every time you want to change this function. When the CD player is in AUTO CUE mode, it will indicate on the LCD display.

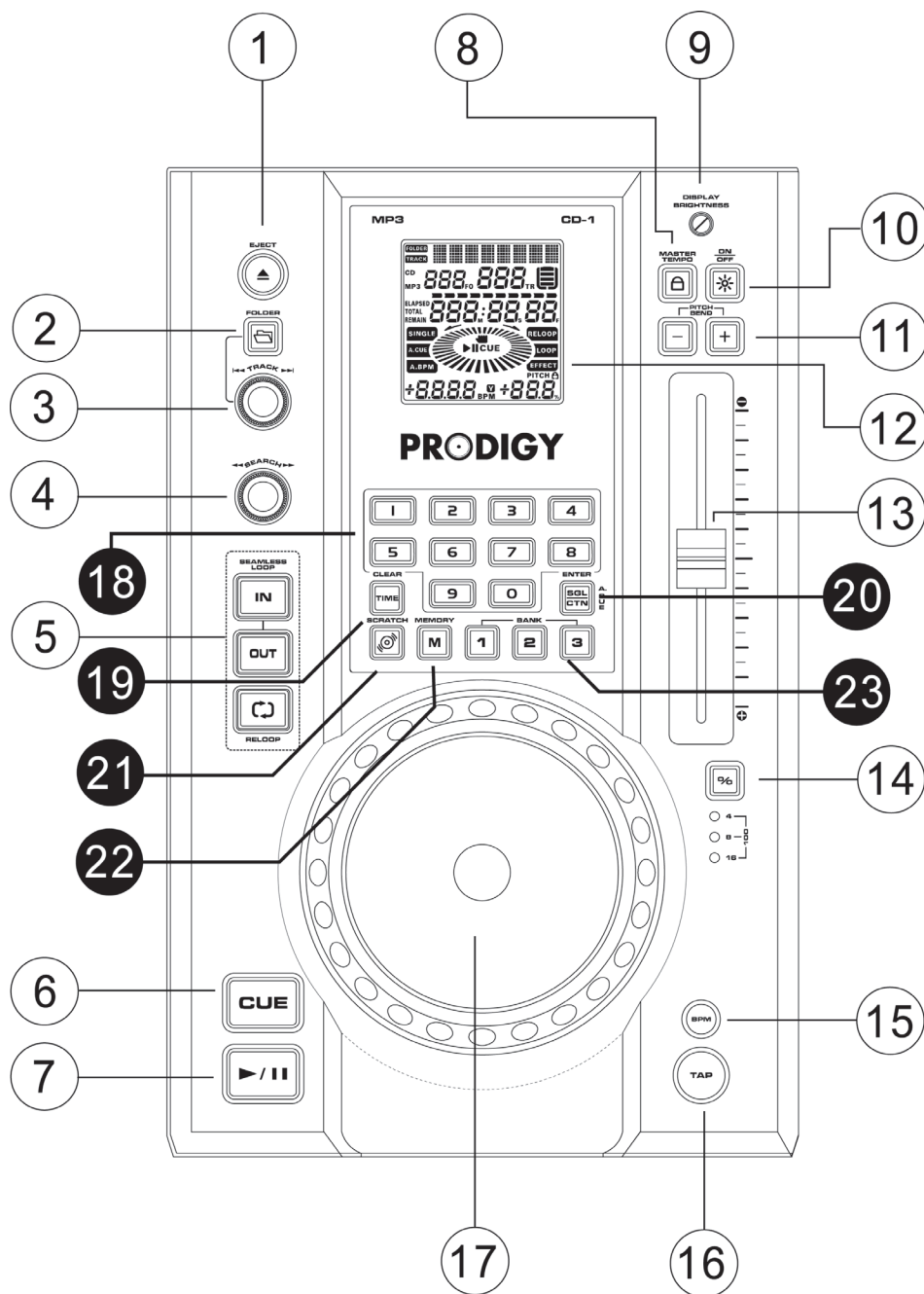
**21. SCRATCH:** Use this button to activate and deactivate the SCRATCH effect, the button will light green when SCRATCH button is pressed. You can use the JOG WHEEL now to scratch.

— **SCRATCH CUE** mode is activated when you press and hold SCRATCH button for 1 second, it will flash green. Touching the touch-sensitive JOG WHEEL in this mode will jump your music to CUE point for scratching.

— **SCRATCH CUE** in PLAY-BACK MODE: The JOG WHEEL can be used to return the music to the last CUE point. Simply touch the JOG WHEEL and it will immediately return to the last set CUE point and playback without music interruption.

— **SCRATCH CUE** IN PAUSE MODE: After you touched and released the WHEEL in a PAUSE mode, and you music stays paused at CUE point, you now can monitor your CUE point by touching the WHEEL again. Your music will be playing until you release the JOG WHEEL. Once the JOG WHEEL is released the unit will return to the last CUE point.

- **NOTE:** to deactivate either SCRATCH or SCRATCH CUE



mode press SCRATCH button momentarily again.

**22. MEMORY:** Use this button to enter memory mode. When the memory mode is set and the MEMORY LED is lit, press the desired BANK button to set a CUE point.

- **TIP:** You can also use the MEMORY button to memorize pre-set CUE points before ejecting CD, as well as the last play mode (i.e. time, single/

continuous, pitch select, etc.) by pressing the MEMORY button for 2 seconds.

- **TIP:** Once you have a perfect loop playing you can save it to one of the three memory banks. See Operations section of this manual for details.

**23. Three HOT CUE buttons:** These buttons memorize three CUE points. The recorded point will light, while the active point will flash.



# PRODIGY<sup>FX</sup>

Professional Dual CD-MP3 Player / VCA Mixer with Accutrack™

prod·i·gy [*prod-i-jee*]

1. A person having extraordinary talent or ability: a musical prodigy.
2. Something wonderful or marvelous; a wonder.
3. B-52's revolutionary DJ workstation.

We had only one choice when naming our ground-breaking, all-in-one professional DJ workstation. Introducing the most complete and innovative solution for the working DJ. The PRODIGYFX is a true reflection of its definition.



precision for your passion.

This piece is very well-built and fills a big hole in the DJ industry. The ProdigyFX is beautiful in appearance with a matte black finish, silver knobs, and graphics. Overall, I am extremely happy with this unit and many of my DJ's are, too. It has performed perfectly at our events and we haven't experienced any flaws in this system. Good job on your introductory unit, B-52—very well done!

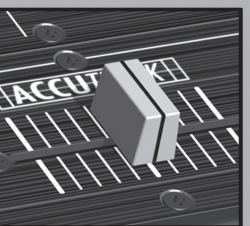
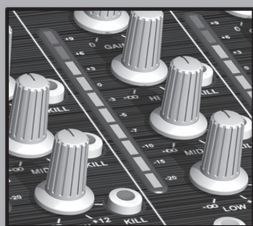
- Nate Sherwood & Jody Amos (DJ Times, August 2007)

In terms of engineering and layout, the Prodigy FX is fantastic. It's both "retro" and futuristic, built with the look, functionality and native feature set. It is a combination unit of the highest order, featuring high quality and ease of use. The price is a great value, compared to what you'd pay in money and time, buying and assembling all the individual items of this caliber, as well as the flight case to carry them in.

The Prodigy FX is smart...and did I mention it's also fun?

- Steve Sharp (Mobile Beat, July, 2007)

The PRODIGYFX elevates your performance to the next level. It features two scratching CD/MP3 players with touch sensitive jog wheels and a high performance 4-channel VCA mixer. The PRODIGYFX is loaded with an extraordinary feature set including a wide array of DSP effects with parameter controls (you can select up to 4 effects simultaneously), pitch control, master tempo, seamless loop, sampler, hot cues, integrated fader start, 3 MIC inputs – two with dedicated DSP reverb, Accutrack™ dual rail VCA crossfader with curve control, effects loop, IPR-independent power reset for each CD player and all of the necessary connections for integrating Serato Scratch Live™, Synchronscience TORQ™ and all other time coded systems.



\*Serato and Torq are trademarks of their respective owners

www.PRODIGY<sup>FX</sup>.com

800-344-4384



# LCD DISPLAY

**1. FOLDER/TRACK indicator:** Shows which information is on the running line at the top of display.

**2. CD indicator:** Indicates a CD is loaded in the slot drive.

**3. FOLDER NUMBER:**

Displays folder number when available and if the folder button is activated.

**4. MP3 indicator:** Displays when a CD has MP3 files on it.

**5. TIME bar:** Shows in graphic form either remaining or elapsed time, depending on the setting of the TIME button.

- **TIP:** Flashing bar indicates that track will end in less than 30 seconds, independent of which time (elapsed or remain) is indicated. Rapidly flashing bar indicates that track will end in less than 15 sec.

**6. ELAPSED, TOTAL REMAIN,**

**REMAIN:** Indicates the time shown on the display is ELAPSED, TOTAL REMAINING or single song REMAINING time.

**7. SINGLE:** Shows when the Prodigy is set to play just one track at a time. When this is not lit the CD will play continuously through all tracks. This function is controlled by SGL/CTN button.

**8. AUTO CUE:** Indicates if the Auto Cue is on or off. Press and hold the SGL/CTN for 1 second to turn the Auto Cue function on and off.

**9. AUTO BPM:** Indicates when AUTO BPM counter is activated.

**10. BPM indicator:** Displays BPM value of the music being played.

**11. CHARACTER DISPLAY:** This is

a multi functional display used to show different messages.

— It will display the name of the track and album, as well as the artist and file name when available on MP3 discs. When you switch to a new track, its file name (or title or artist's name) is displayed for a short moment, then runs till the end of the data and stays permanently until the next track. STOP and RUN time can be customized, see CUSTOMIZATION and MEMORY on PAGE 11.

— CHARACTER DISPLAY is also used for different messages such as EJECT, SAVING and many others.

**12. ANTI-SHOCK and**

**BUFFER indicator:** Memory status is represented on the display by a bucket being filled or emptied with horizontal bars.

— The bucket itself represents the CD player's capability to instant start, which depends on the state of the buffer memory. If the bucket is flashing, instant start is not available.

— Each bar within the bucket represents a portion of the anti-shock protection. There is up to 10 seconds of anti-shock available on each CD player.

**13. TRACK NUMBER:** Displays track number.

**14. MINUTE, SECOND, FRAME:**

Indicates time information for the current track.

**15. RELOOP:** Flashes to indicate that preset loop is playing.

**16. LOOP:** Indicates when both IN and OUT points for the loop have

been set and the CD player is ready to play a loop.

**17. EFFECT:** Displays that SCRATCH or SCRATCH CUE is activated.

**18. TEMPO LOCK:** Indicates when TEMPO lock function is active. MASTER TEMPO button is also illuminated in this mode.

**19. PITCH:** Shows the pitch percentage of the playing song.

**20. HAND:** Displays when the touch sensitive wheel can be used to control playback or scratch effects.

**21. CUE:** Lights when the unit is at a cue point.

**22. PAUSE:** Lights when the CD player is in pause or cue mode.

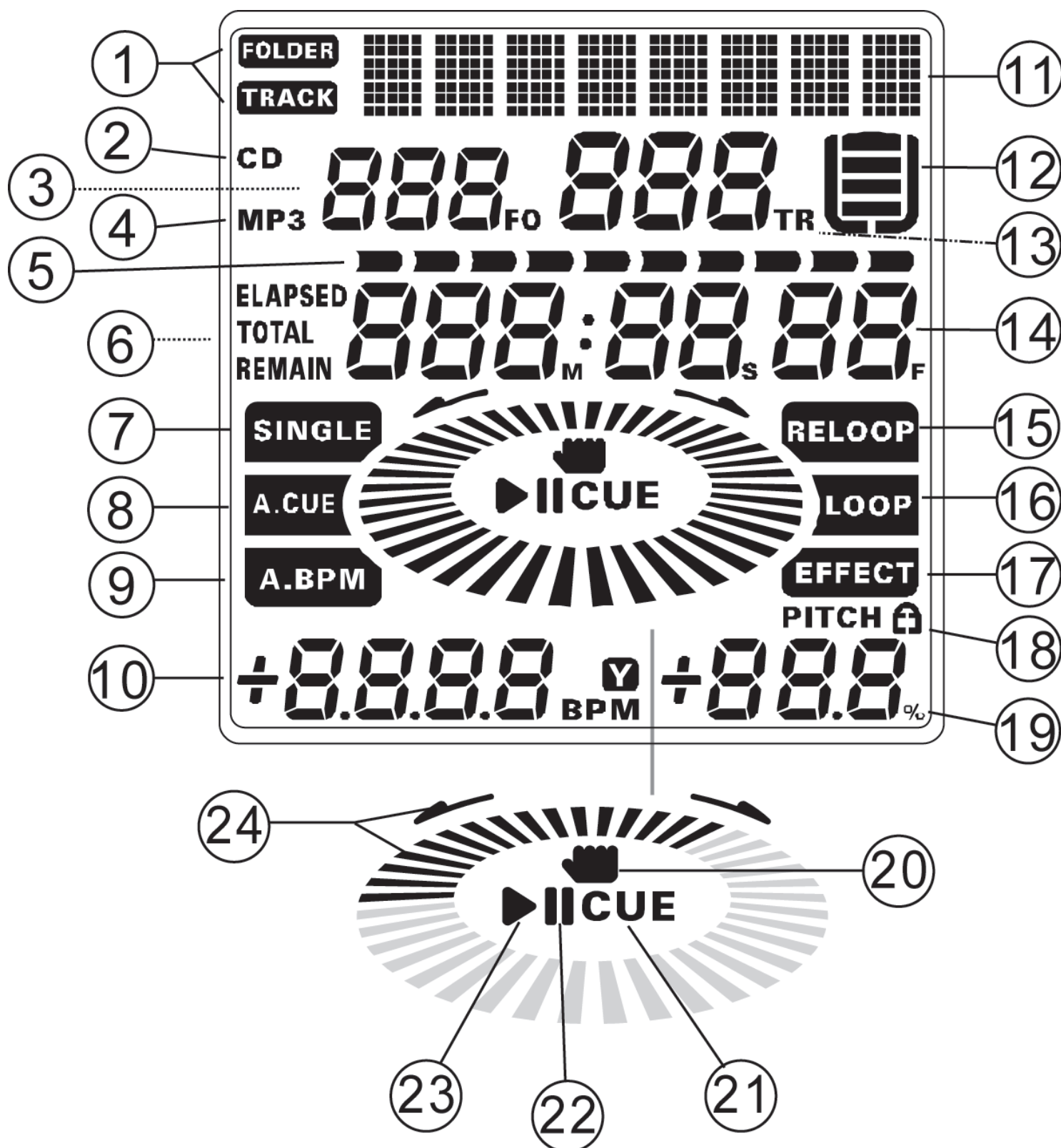
**23. PLAY:** Lights while the unit is playing a CD.

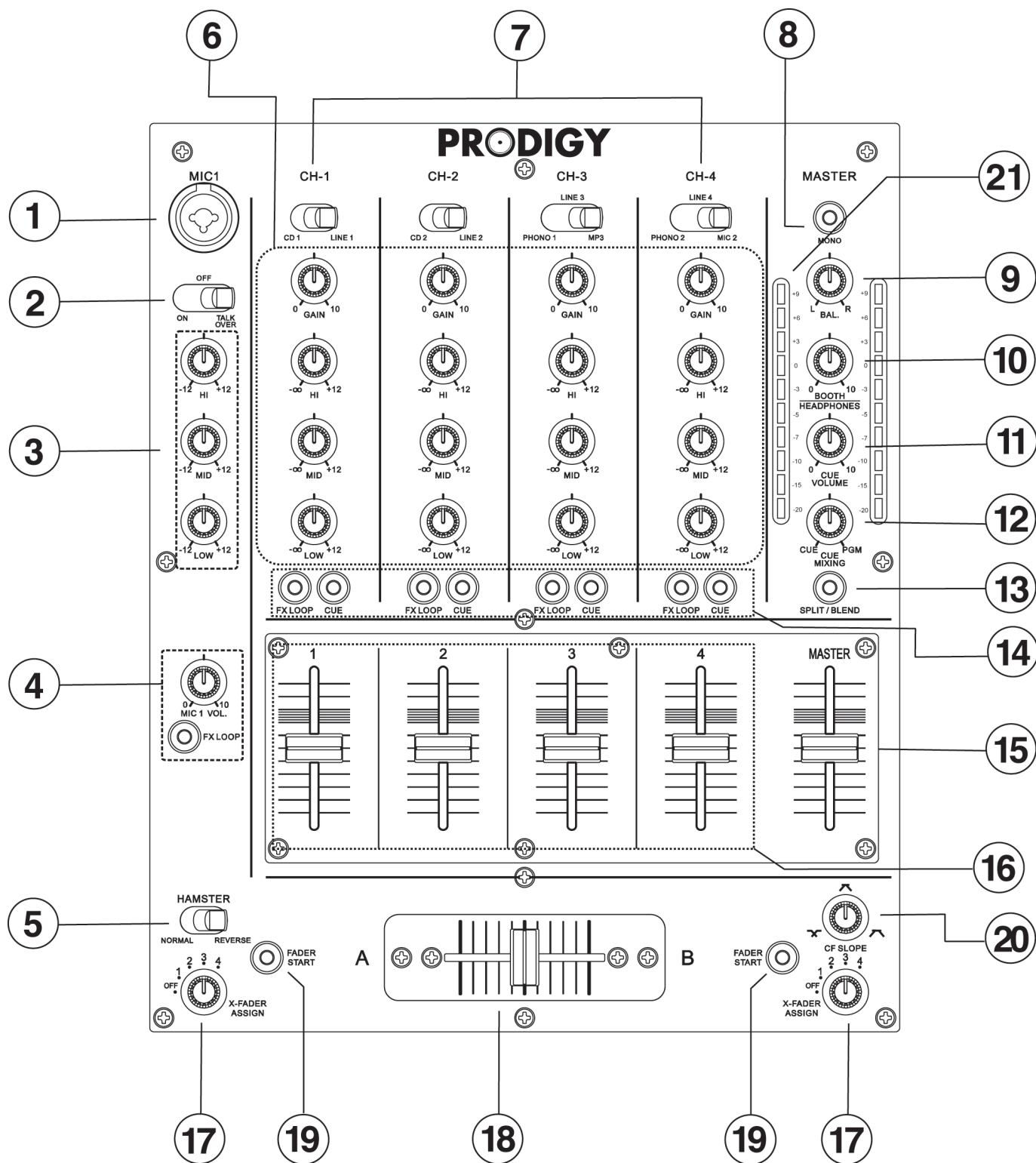
**24. CD DIRECTION:** Indicates direction and speed of CD rotation in graphic form.





# LCD DISPLAY







# MIXER CONTROLS AND FUNCTIONS

**1. MIC INPUT JACK:** Use to connect a DJ's microphone with either XLR or 1/4" TRS Jack connector.

**2. MIC ON/OFF/TALKOVER SWITCH:** Use to switch MIC1 on/off, or to activate TALKOVER. When switch is in the TALKOVER position, the MIC1 is on and the sound level for everything other than the MIC1 will be attenuated by 14dB.

**3. MIC EQ CONTROL:** Use to boost or cut the frequency response of MIC1 by up to +/- 12dB. Frequency response is flat when all three controls are at the center position.

- **HIGH:** Use to adjust treble.
- **MID:** Use to adjust mid frequencies.
- **LOW:** Use to adjust bass.

**4. CONTROLS FOR MIC1:**

- **VOLUME:** Use to adjust the volume of MIC1.
- **FX LOOP:** FX LOOP on/off. Use to route MIC1 to external effects processor connected to rear panel. Button illuminates when MIC is routed to external effects.

- **TIP:** If external effect processor is off or is not connected on the rear panel and supplied u-shaped jumpers are removed from the SEND/RETURN connectors for external processors, MIC1 will mute when this knob is activated, as the signal path is open. The Prodigy unit is shipped with these jumpers in place. Make sure to keep them and insert into the EXTERNAL EFFECTS SEND/RETURN connectors if you are not using an external processor.

**5. HAMSTER:** Use to reverse connection of the cross-fader by switching to REVERSE. Switch to NORMAL to return to normal connection.

**6. CONTROL KNOBS FOR CH1 to CH4:**

- **GAIN:** Adjusts gain of the input signal. Turn to the right to increase level or turn left to decrease level.

- **NOTE:** GAIN control does not reduce signal to zero in FCCW position, it will reduce it by 30dB. You can kill the signal completely with the slide channel's fader.

- **TIP:** Make sure not to set gain too high, so the inputs are not overloaded. If the inputs are overloaded, the mixer will begin to distort. If that happens, decrease the gain on the overloaded channel.

- **TIP:** Different records are recorded with different levels. Some recordings may produce unusually high output. Make sure to observe the output LEVEL METERS periodically when switching to a new track, and adjust channels' gain if necessary.

- **HIGH:** Use to adjust treble. At the center position, frequency response is flat. Turn to the right to increase amount of treble on the output up to +12dB; turn to the left to decrease amount of treble on the output up to zero (kill).

- **MID:** Use to adjust mid frequencies. At the center position the frequency response is flat. Turn to the right to increase the amount of mid frequencies on the output up to +12dB. Turn to the left to decrease the amount of mid frequencies on the output up to zero (kill).

- **LOW:** Use to adjust bass. At the center position the frequency response is flat. Turn to the right to increase the amount of bass on the output up to +12dB. Turn to the left to decrease the amount of bass on the output up to zero (kill).

**7. INPUT SELECTOR Switches:** These switches select which input sources, either Prodigy's CD players or external sources connected on the rear panel, are routed to channels 1-4.

- **CH-1:** Switches between CD1 and LINE1
- **CH-2:** Switches between CD2 and LINE2
- **CH-3:** Switches between PHONO1, LINE3 and MP3
- **CH-4:** Switches between PHONO2, LINE4 and MIC2

**8. MONO BUTTON:** Use to select either MONO or STEREO for master output.

**9. MASTER BALANCE:** Use to adjust the left-to-right balance of the master output.

**Continued next Page**



### From Previous Page

**10. BOOTH:** Use to adjust the level of the BOOTH outputs.

**11. CUE VOLUME:** Use to adjust volume of the headphones.

**12. CUE MIXING:** Use to control signal routing to the headphones. Turn all the way to the right to route the MASTER OUTPUT signal to the headphones. Turn all the way to the left for the sound from the channels with activated CUE to be routed to the headphones. At the center position, the signal level of the MASTER OUTPUT and signal from the channels with active CUE will be even.

- **NOTE:** Master output signal routed to headphones is tapped before MASTER FADER. CUE signals from channels 1-4 are tapped before channels' faders.

**13. SPLIT/BLEND:** Use to configure headphone section routing.

— **PRESS** the button to activate SPLIT mode and LED will light. In the SPLIT mode, mono CUE signals from the channels will route to the left ear and mono signal from MASTER OUTPUT will be routed to the right ear.

— **RELEASE** the button to activate BLEND mode and the LED will turn off. In the BLEND mode both the stereo signal from MASTER OUTPUT and the CUE signals from the channels will route to both ear cups of the headphones.

**14. FX LOOP:** Press to turn FX LOOP on or off. Use to route signal of the channel to external effects processor connected on the rear panel. The button will illuminate when channel's signal is routed to the external effects.

- **NOTE:** If the external effect processor is off or is not connected on rear panel and supplied jumpers are removed from SEND/RETURN connectors for external processor, signal will mute when this knob is activated, as the signal path is open. The Prodigy unit is shipped with these jumpers in place. Make sure to keep them and INSERT into EXTERNAL EFFECTS SEND/RETURN connectors if you don't use an external processor.

— **CUE BUTTON:** Use to direct this channel's signal to the headphones. The button will illuminate when the channel's signal is routed to the headphones.

**15. MASTER FADER:** Use to control the master output sound level.

- **TIP:** Signals from the channels selected with the ASSIGN switch will output proportionally to the

positions of both the channel fader and crossfader. Signals from all other channels will output proportionally to the positions of their channel faders only.

**16. INPUT FADERS (Channel Faders):** Adjusts the volume for CH1 to CH4.

**17. X-FADER ASSIGN:** Use to select which channels are assigned to A and B positions of the crossfader.

— **1 to 4:** Select the channel (CH1 to CH4) assigned to A and B. Channels not assigned to A or B will be directed to the output without passing through the crossfader.

— **OFF:** Select to disengage the crossfader.

- **TIP:** Use HAMSTER switch to instantly reverse connection of the crossfader to A and B.

**18. CROSS FADER (X-fader):** Use to mix sound of the sources set to A or B by the ASSIGN switch to the MASTER OUTPUT.

- **NOTE:** Your Prodigy is equipped with high quality X-fader and channel and master faders for great performance and long service life. The X-fader and channel faders control sophisticated VCA-based circuitry for consistent and precise operation.

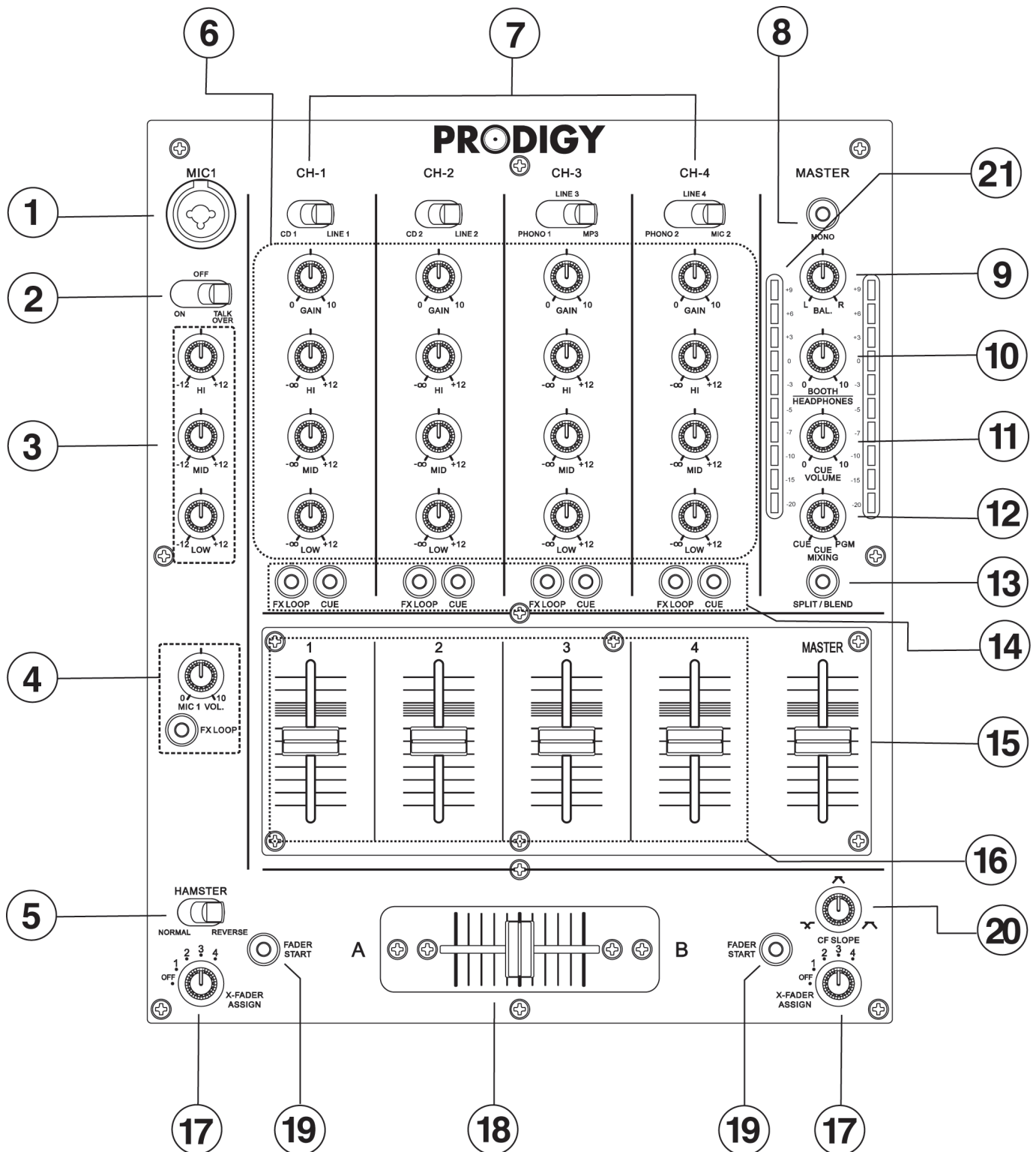
**19. FADER START:** Press to activate FADER START. When FADER START knobs are pressed and lit, FADER START mode is active. With both CD players playing music, moving X-fader to the left will return right (opposite) CD player to the last set CUE point. If you didn't set a CUE point, it will return to the starting point of the current track. Moving X-fader to the right position will do the same for the left CD player.

- **NOTE:** Setting CF SLOPE knob into the FCW (full to the right) position will produce the most effective results in FADER START mode.

• **TIP:** If your CD players are in a SINGLE play mode and the FADER START mode is active and one of CD players is paused, it will start playing automatically when track on the other CD player ends.

• **TIP:** You may also use the AUTO CUE SCRATCH mode to activate fader start. To activate this mode press and hold the SCRATCH button until it flashes green. Touching the JOG WHEEL will act as a fader start.

**20. CF SLOPE:** Use to adjust the "shape" of the X-fader response from a gentle curve for smooth, long running



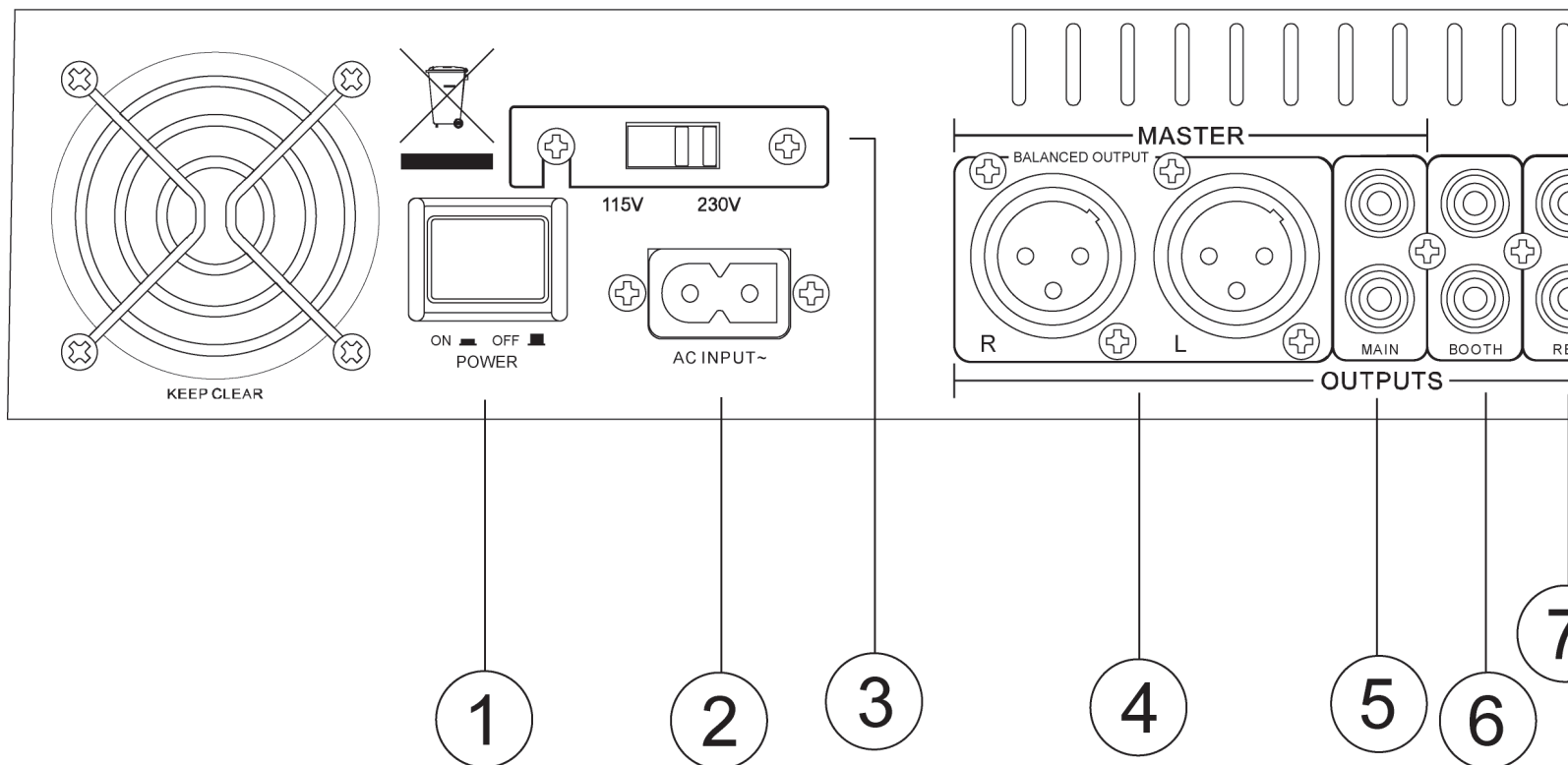
fades (FCCW), to the steep pitch required for top performance cut and scratch effects (FCW).

**21. OUTPUT LEVEL METERS:** Displays the level on output of the mixer with wide range of -20dB to +9dB.

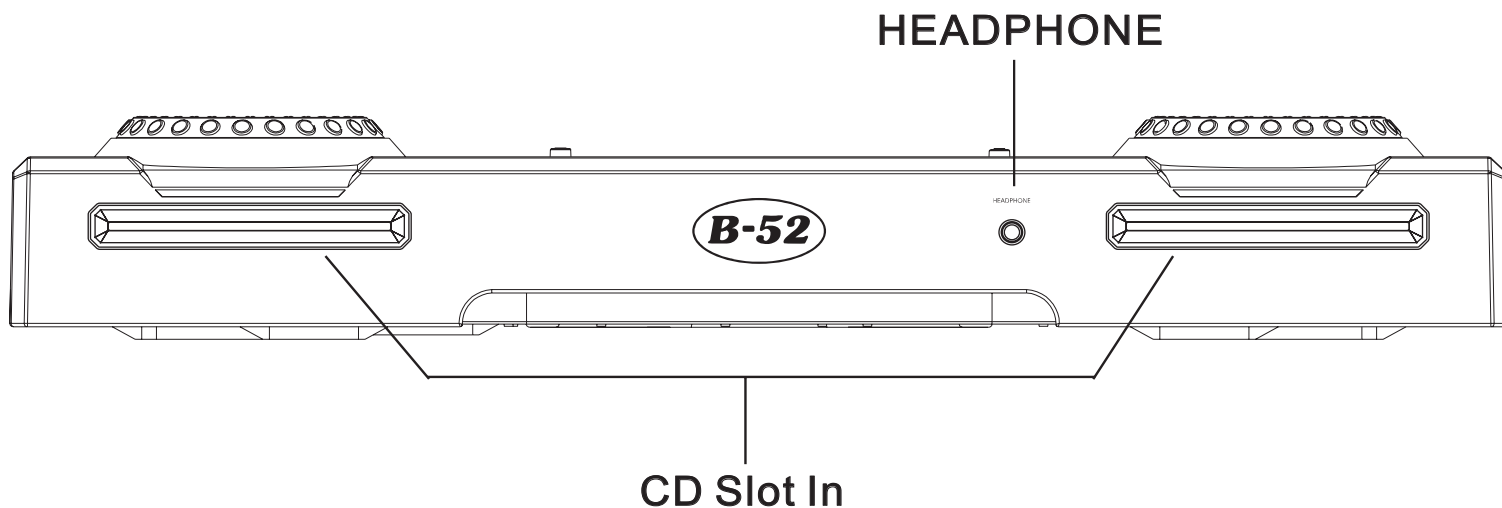
• **TIP:** Make sure the red LEDs (+6/+9dB) do not light constantly. This indicates that the output is over-

loaded and will produce gross distortion. If this happens, attenuate the signal using channels' gain controls and faders and master fader. Try channels' gain control first to reduce the signal overloading of input stages.





## FRONT PANEL



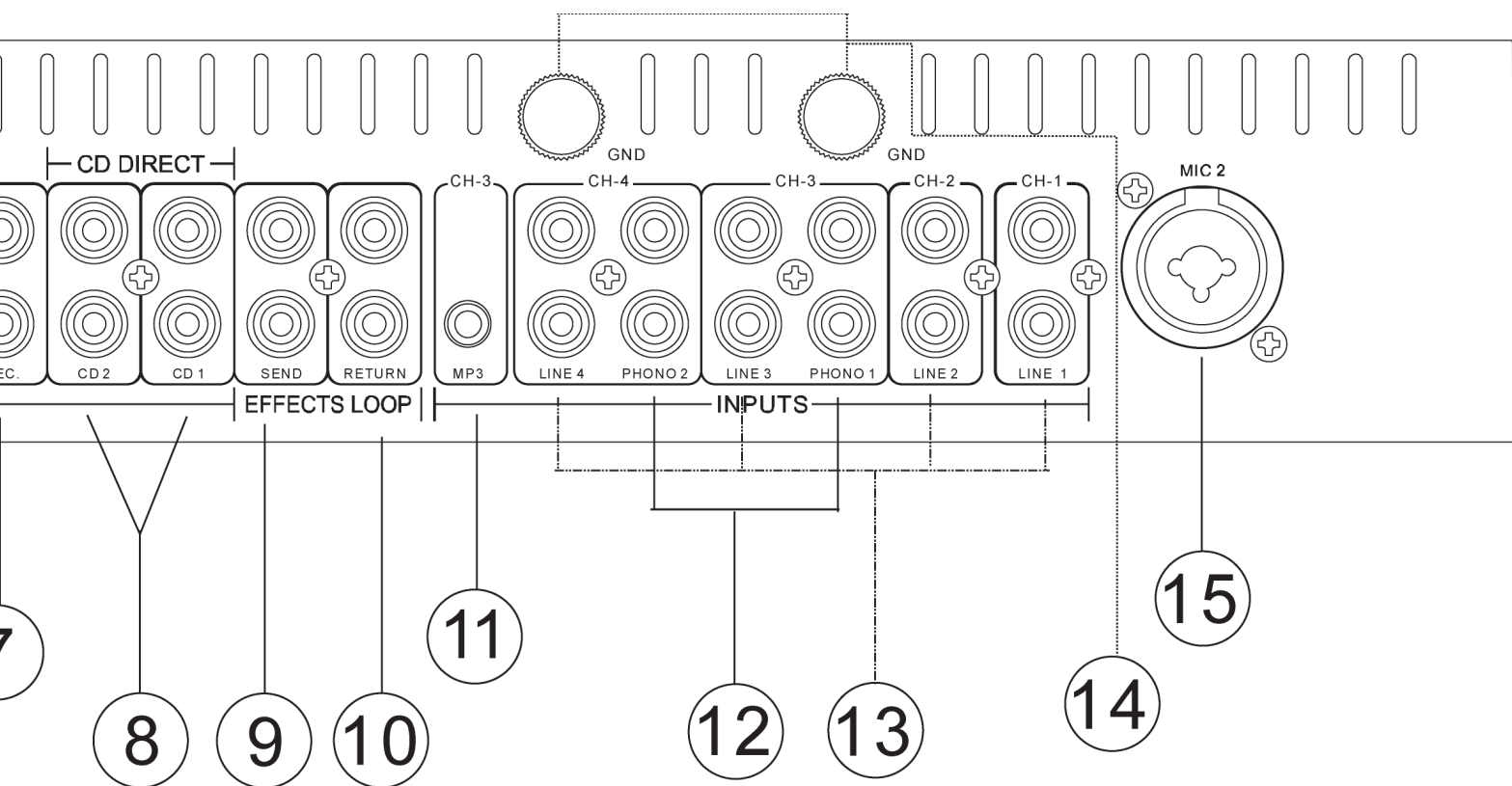
**HEADPHONE:** Connect your headphones with a 1/4" TRS stereo Jack to this output.

**CD SLOT:** Slots to load your CDs into. The slots are illuminated with a green line so you can locate them easily.

- **NOTE:** CDs must be inserted into SLOTS without force. The SLOTS will allow some angle

variation when a CD is being inserted, but you should hold the CD in horizontal position while feeding it into the CD player.

- **NOTE:** Your Prodigy unit is made to work with standard 12cm CDs; it will not accept 8cm CDs or CDs with special shapes.



## REAR PANEL CONTROLS & CONNECTIONS

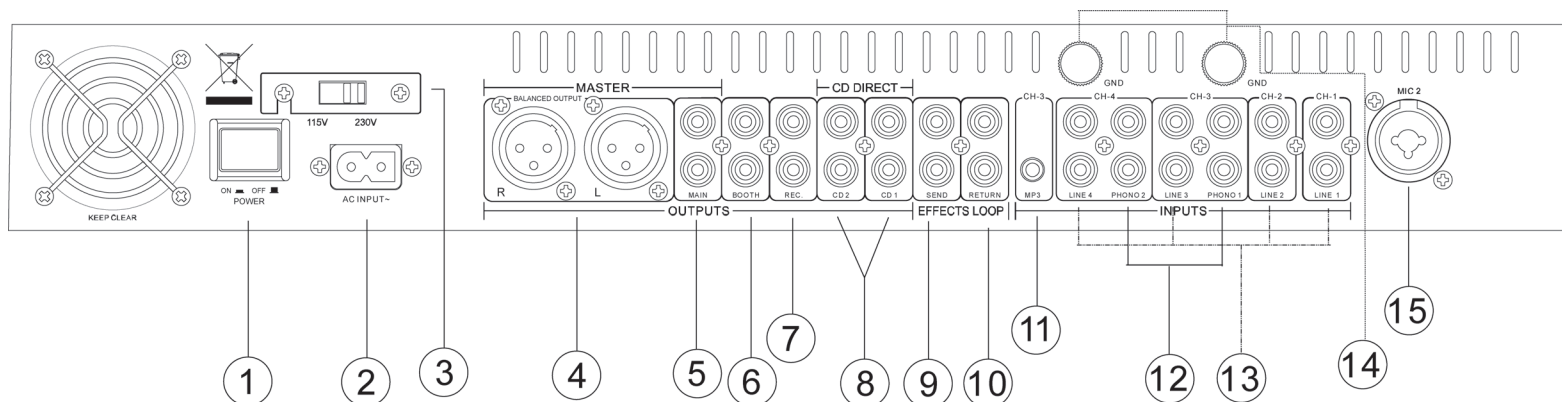
- 1. POWER SWITCH:** Turns the unit on and off.
- 2. AC CONNECTION:** Plug the power cable in here.
- 3. AC VOLTAGE SELECTOR:** 115Vac and 230Vac switch. Your Prodigy unit ships with the AC VOLTAGE SELECTOR switch set for your country's AC line voltage and with the appropriate power cord. If you moved your Prodigy to another country, make sure to set the proper AC line voltage using the VOLTAGE SELECTOR switch. Use a powercord approved for your new location.
- 4. MASTER XLR OUTPUT JACKS:** Connect to balanced inputs of your B-52 Matrix system or to any power amplifier using balanced cables with XLR connectors.
  - **NOTE:** Your Prodigy comes with rubber plugs inserted into the MASTER OUTPUT XLR connectors. Always insert / replace these rubber plug when the XLR cables are not connected. Do not permanently remove these rubber plugs from the unit.
- 5. MASTER UNBALANCED RCA OUTPUT JACKS:** Connect to unbalanced inputs of your mixer or amplifier using audio cables with RCA connectors.
- 6. BOOTH OUTPUT JACKS:** Connect to inputs of your active monitors using cables with RCA connectors.

- 7. REC OUTPUT JACKS:** Connect to the inputs of your recorder using audio cables with RCA connectors. These outputs provide the same signal as MASTER OUTPUTs, but they are not influenced by the master volume, master balance and MONO/STEREO switch.
- 8. CD DIRECT OUTPUT JACKS:** These are analog outputs from the left and right CD players. You can connect them to the external mixer or amplifier.
  - **NOTE:** You can use these outputs to connect your unit to SERATO™, TORQ™ or similar systems with time-coded CDs. If you connect these outputs to SERATO™ or TORQ™ then you must connect the analog outputs of SERATO™ or TORQ™ to LINE1 and LINE2 inputs and switch channels 1 and 2 to LINE1 and LINE2 inputs respectively. You then can use the Prodigy FX CD players to control SERATO™ or TORQ™.
  - **TIP:** If you are playing a time-coded CD for SERATO™ or TORQ™, don't switch channels 1 and 2 to CD1 and CD2 positions, they will not play properly.

- 9. EFFECTS LOOP / SEND (OUTPUT):** Connect to

Continued next Page

# REAR PANEL CONTROLS



### From previous page

the input terminal of the external effects processor.

**10. EFFECTS LOOP / RETURN (INPUT):** Connect to the output terminal of the external effects processor.

- **NOTE:** Your Prodigy comes with wire jumpers inserted between left and right channels' SEND/RETURN connectors. If external effect processor is off or is not connected to the rear panel and supplied jumpers are removed from SEND/RETURN connectors for an external processor, the signal will mute on the channels on which FX LOOP knobs are activated, as signal path is open. Make sure to keep these jumpers and insert them into the EXTERNAL EFFECTS' SEND / RETURN connectors when you are not using an external processor.

**11. MP3:** Connect this 3.5mm mini Jack to the out-

puts of your MP3 player (or other similar stereo source) using audio cables with 3.5mm plugs.

**12. PHONO INPUT JACKS:** Connect to the outputs of your vinyl turntables with phono (RIAA) stage using magnetic (MM) cartridge.

**13. LINE INPUT JACKS:** Connect to the outputs of your line-level signal sources using audio cables with RCA connectors.

**14. PHONO GROUND SCREW:** Connect the ground wire from a turntable to these terminals when using vinyl turntable signal sources. This will help in eliminating hum and buzz.

- **NOTE:** It is not a safety earth ground terminal.

**15. MIC COMBO INPUT (for MIC2):** Use to connect microphone with either an XLR or 1/4" TRS Jack connector to CH-4 input.



# OPERATING YOUR WORKSTATION

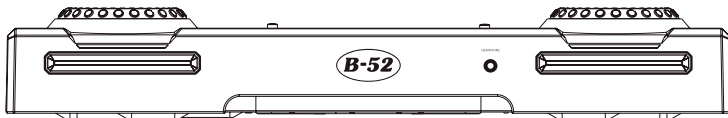
In this section you will find helpful information about operating the Prodigy and how to maximize all of the features provided.

This section will provide you information about the basic operations of the Prodigy as well as the advanced features.

The Prodigy will give you ultimate control over your music. It has a vast amount of unique features and several of its operation modes are not obvious until you know they are exits. This section will help you navigate all of the controls and features of the Prodigy. Read this section thoroughly and you will be well on the way to mastering your Prodigy.

Don't forget to visit [www.ProdigyFX.com](http://www.ProdigyFX.com) periodically for updates and other information. You will also find downloadable version of this instruction manual as well as other hints, tips and FAQs.

## SO LET'S GET STARTED:



— The Prodigy only plays 12cm compact discs (CDs). Do not attempt to insert any other types of discs into the Prodigy CD slots, such as 8cm discs or specially designed novelty-shaped discs.

— Never try to insert CDs into the Prodigy when the unit is turned off as this can damage the CD players.

Please refer to the CD PLAYER CONTROLS section and CONTROLS AND FUNCTIONS earlier in this manual on how to:

- Load/eject CDs
- Search within a track
- Switch between tracks and folders
- Set CUE points and use memory banks
- Use pitch / master tempo controls and pitch bend

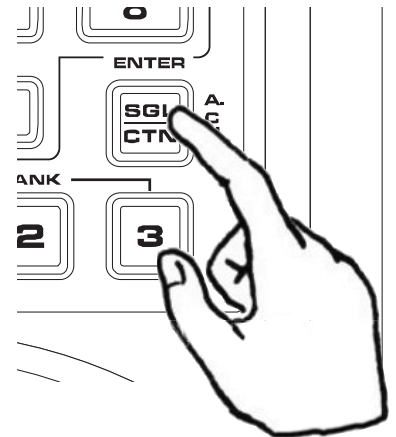
More advanced functions and operations are covered in this section. Ensure that you are familiar with basic operations before you proceed. Always observe symbols illuminated on the LCD displays. The Prodigy's LCD is intuitive and is designed to help simplify your job.

## AUTO CUE MODE and SETTING CUE POINTS:

— To turn AUTO CUE mode on and off, hold the SGL/CTN button for 1 second before releasing it (the A.CUE sign is just above this button). When AUTO CUE mode is on, you will see the A.CUE illuminated on the LCD display.

— When you insert a CD and start playing it in AUTO CUE mode, the point where the actual music starts will be set as a CUE point. Every time a new track starts, either when music is playing continuously or you switched to a new track, the start of the new track automatically becomes the new CUE point. So, when your music is playing and you press the CUE button, the music will jump to the set CUE point and pause, until you press PLAY again.

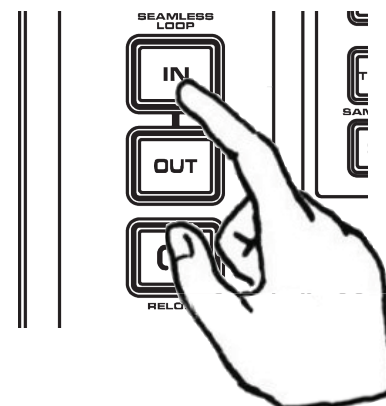
— The CUE point will also be used in other modes as explained elsewhere in this manual.



## SETTING CUE POINT MANUALLY:

— Use the on-the-fly IN button to set a CUE point without music interruption while a disc is playing. Pressing the CUE button will return music to that point and pause it.

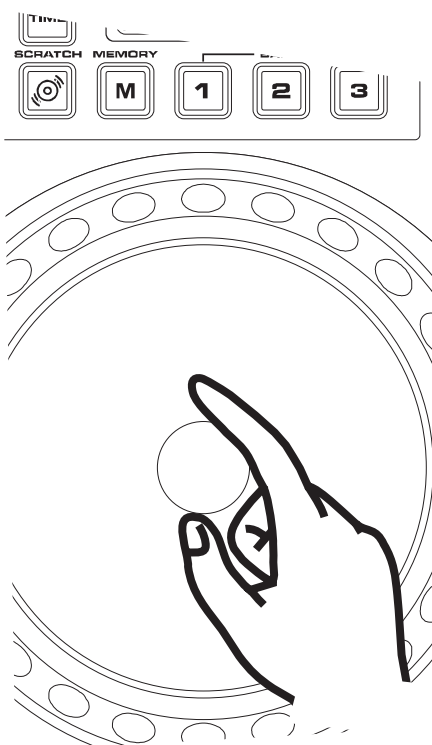
— To set a CUE point at a precise frame, pause the music. Then use the JOG WHEEL to find the frame you want to use as a CUE point. Press the PLAY but-





ton (7) and the music will start playing. The CUE button will flash and your new CUE point is now memorized.

- **TIP:** The CUE button and IN button will share the same CUE point. The three memory bank points are independent from this CUE point.
- **TIP:** After storing a CUE point, you can then memorize it into one of the three memory banks. To do this, press the CUE button to return to the CUE point. Then press the MEMORY button and one of the three memory bank buttons. It will flash indicating a new point is set. You can now memorize it permanently by pressing and holding the MEMORY for two seconds. You can now recall it the next time you are playing the same disc (see MEMORIZE/RECALL procedures).
- **NOTE:** This procedure to set a CUE point with the JOG WHEEL will not work when SCRATCH DSP effect is on. When you want to set a new CUE point while scratching use on-the-fly IN button in either the PLAY or PAUSE mode.
- **TIP:** The CUE button will light when a CD is in PAUSE mode at CUE points and will flash momentarily each time music is playing through CUE points. The CUE button will flash each time a new CUE point is being memorized.



### SEAMLESS LOOP:

- You can create, play, edit and recall a SEAMLESS LOOP on your Prodigy CD players. The SEAMLESS LOOP will play music continuously without interruption.
- To set the starting point of a



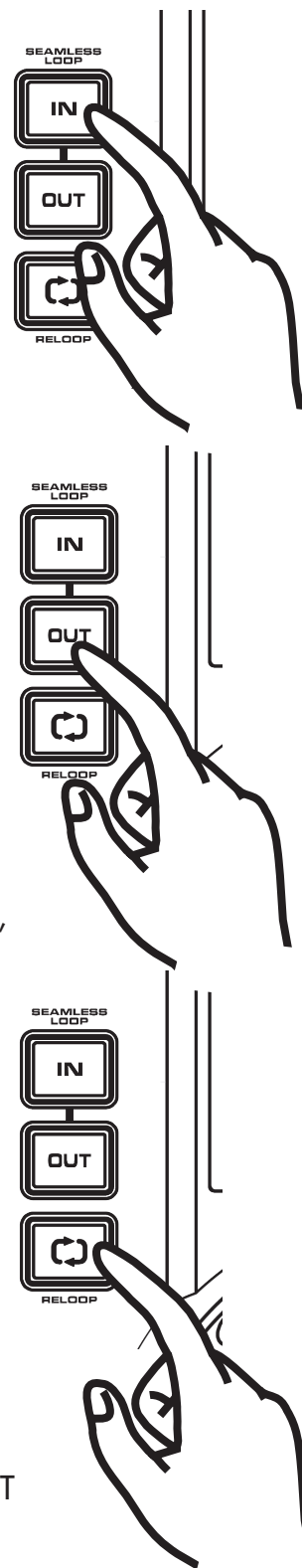
SEAMLESS LOOP, press the IN button while the music is playing. The CUE button will flash, indicating the new CUE point was memorized. The IN button will light.

- To set an end point of the SEAMLESS LOOP, press the OUT button. Both IN and OUT buttons will start flashing, indicating that the SEAMLESS LOOP is playing. The LOOP symbol on the LCD display will be on, indicating that both the start and end point of the loop have been set. The RELOOP symbol on the LCD will flash, indicating that the loop is playing.

— To exit the SEAMLESS LOOP press the OUT button again. The music will continue playing without looping. Both the IN and OUT buttons, as well as the LOOP symbol on the LCD display will light. This indicates that the IN and OUT points of the SEAMLESS LOOP are set and that you can reactivate the same loop at any time.

- To start playing the same SEAMLESS LOOP again, press the RELOOP button. The IN and OUT buttons as well as the RELOOP symbol on the LCD display will start flashing again.

- **TIP:** You can change the OUT point of the SEAMLESS LOOP. First, press the OUT button to exit a loop to be able to set new OUT point. Then press OUT button again to set a new OUT point.
- **TIP:** You can edit the OUT loop point precisely, while your SEAMLESS LOOP is playing. This gives you a powerful tool for precise on-the-fly loop editing. While the loop is playing, press and hold the RELOOP button for 2 seconds. ALL three IN / OUT

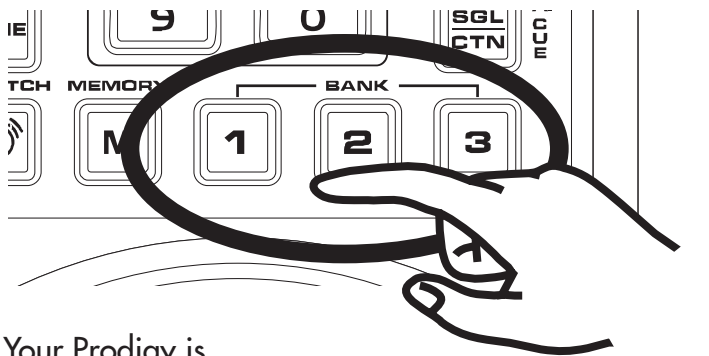






/ RELOOP buttons will begin flashing, indicating the LOOP edit mode is activated, and character display on the top of your LCD display will show your precise OUT point position in minutes, seconds and frames. You can then precisely edit the OUT point with the JOG WHEEL frame-by-frame. Your loop will change on-the-fly. To exit the edit mode, simply press the OUT or RELOOP buttons.

### MEMORY BANKS ADVANCED OPERATION:



Your Prodigy is equipped with an independent 3-bank memory on each side for storing CUE points.

— To memorize CUE points press the MEMORY button and it will light red. Then press any of the 1-3 memory banks buttons. It will flash red, indicating that a new CUE point was memorized. The MEMORY button light will turn off. To memorize another CUE point press the MEMORY button again to activate it, then press another memory bank button. The new memory bank button will flash and the previously memorized memory bank button will turn solid red to indicate it is available for recall.

— To recall any of the memorized CUE points, press the corresponding button, which will light solid red. Your music will jump to the corresponding CUE point and will start playing immediately.

• **TIP:** You can preview a CUE point from any active bank when a CD is in PAUSE mode. To do this, press and hold one of the active memory bank buttons. The music will be playing while you are holding this button and will jump back to the CUE point and pause once you release this button.

— YOU can memorize a complete seamless loop as a CUE point in a memory bank.

— TO place a seamless loop into memory, you have to set up a seamless loop first, as described above. You

must then activate the memory banks by pressing the MEMORY button, which will turn red. Then press the memory bank button where you want to store your loop and it will flash red. Now you can recall your seamless loop at any time from the memory banks.

— CUE points memorized in the three memory banks can be placed in permanent memory using the MEMORIZATION procedure. They will be kept in the Prodigy's memory even after the CD is ejected and the unit is turned off. They can be recalled at any time using the RECALL procedure for up to 500 CDs.

To place previously set CUE points into permanent memory, press and hold the MEMORY button for 2 seconds. You will see SAVING on display. You can now eject your CD, put in a new CD and memorize new CUE points on the new CD. If you want to recall CUE points from the first CD, press the MEMORY button momentarily (don't hold it) just before putting this CD into CD slot. You will see RECALL on the display and your previously memorized CUE points will be active and lit.

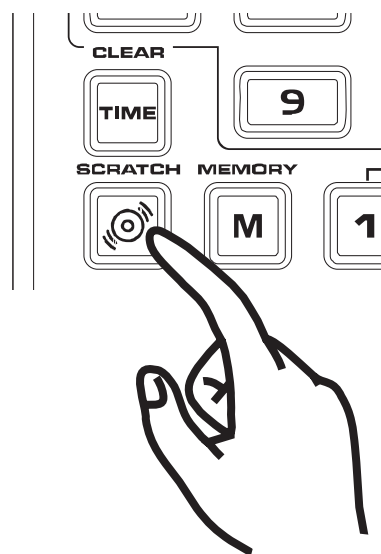
**SCRATCH DSP effect:** This effect emulates real time turn- table scratching on a vinyl record player. Scratch effect has dual mode of operation: normal SCRATCH and SCRATCH CUE.

To activate the normal mode, press the SCRATCH effect button momentarily and the button will light solid green.

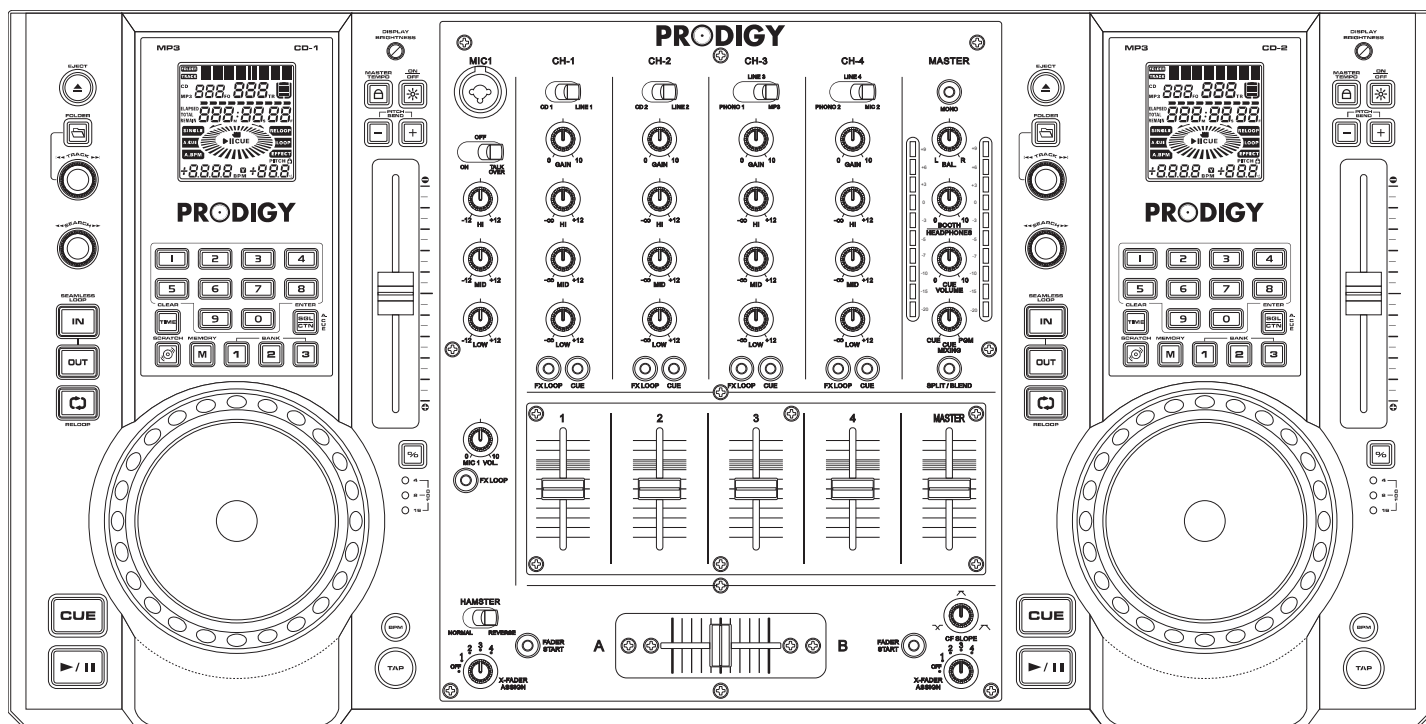
You can now use the scratch technique on your CD.

To activate the SCRATCH CUE mode, press and hold the SCRATCH button for a second and the button will flash green. Now when you touch the

JOG WHEEL while your CD is playing, your CD will jump to the CUE point and you can scratch around it. In the PAUSE mode, when you touch the JOG WHEEL after pressing the CUE button, the CD will play until you



Continued next Page



release the JOG WHEEL. This is similar to CUE MONITORING described above in a description of a SCRATCH CUE section.

- **TIP:** In SCRATCH mode you normally use the JOG WHEEL to make a scratch. But you still can use the JOG WHEEL for a pitch bend by using the outer rubber-covered edge of the wheel to rotate it.

### REPLACING FADERS:

Your Prodigy includes a premium quality X-fader and channel faders. They have a great “feel” and provide precision control over your music. Under normal operation these faders are designed for durability. However at some point you may need to replace some

of your faders with new ones. We have designed the Prodigy to make this process easy.

To replace a X-fader or channel fader you will need to remove either the X-fader assembly plate or mixer panel using a Phillips head screwdriver. Disconnect the single connector attached to the old fader and connect it to the new one. Replace the metal assembly or mixer panel and you’re ready to go!

### USE ONLY ORIGINAL FADERS SUPPLIED BY B-52.

Check with your retailer or call B-52 directly to purchase a replacement. You can also visit [www.ProdigyFX.com](http://www.ProdigyFX.com) for additional information.



## TROUBLESHOOTING

**1. My Prodigy won't turn on.** Ensure the power cable is inserted into the rear of the Prodigy and is connected to a power source. If the AC outlet you are using has an on/off switch make sure that it is switched to the on position.

**2. My CD is stuck. What should I do?** The Prodigy has an emergency CD ejection procedure. If an error message is displayed on the blue LCD or if the CD fails to eject, press and hold the EJECT button for 5 seconds. The individual CD player - left or right - will reset and the CD will automatically eject. This function operates independently of the other CD player and mixer, ensuring your gig is not interrupted. In the extremely unlikely event, when any of the CD players fail to eject after completing the above procedure, turn off the unit for 10 seconds to reset the Prodigy and then turn the unit back on.

**3. What audio quality should I burn my CDs?** B-52 Professional recommends encoding your music for CD-R and CD-RW discs at 160 kbps to ensure high-quality playback. CD-R and CD-RW should be burned at no greater speeds than 2x or 4x.

**4. The Prodigy is skipping excessively or having trouble reading when using CD-R discs. How can I fix this?** Many CD-R and CD-RW brand discs have vastly different specifications. Ensure you follow these simple guidelines when burning your tracks to a CD:

**A.** Make sure to burn audio at no faster than 2x or 4x speed. The faster CDs are burned, the less likely the discs will be able to be played back at the highest quality or at worst, be read by the CD players.

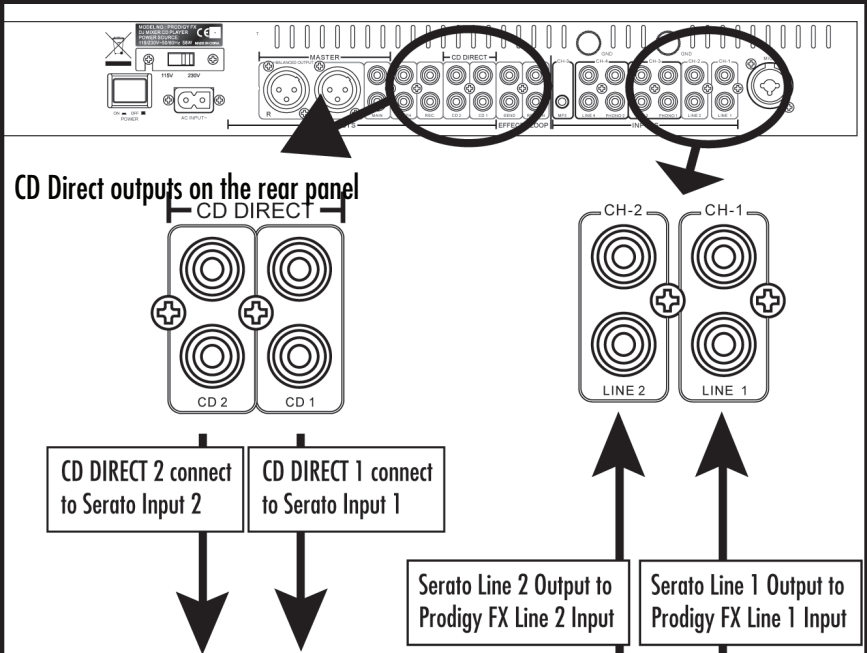
**B.** Use quality discs. Don't buy cheap generic discs. Buy blanks discs from companies that have a reputation for manufacturing audio / media discs. If you have success with a specific brand - stay with it.

**C.** Look after your discs before and after you've burned them. Taking them out of the CD player and not immediately putting them into their cases leads to scratching. Placing discs face down on any surface will cause to scratching and will affect playback.

**5. I have changed settings and my Prodigy doesn't perform as it used to. What should I do?** Execute MASTER RESET procedure as described in this manual. With the unit switched off, turn the SEARCH control knob completely counterclockwise. Hold it in this position and turn the unit ON using the power switch. The LCD will display <clearALL> on the top line. Once the <clearALL> line automatically disappears, release the SEARCH knob. The CD player has now been reset. MASTER RESET procedure must be done separately for each side CD player.

**6. None of these questions have solved my problem.** Call B-52 Professional's support center at 1-800-344-4384 323-277-4100 (9:00AM to 4:00PM Pacific Standard Time, United States).

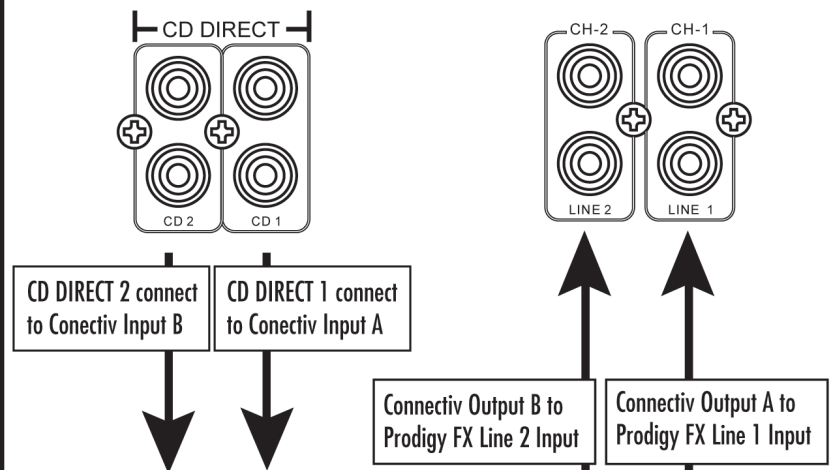
## Connecting Third Party Hardware



## SERATO SCRATCH

**How To Connect Serato Scratch Live Box to the ProdigyFX:**

- 1) From Prodigy FX – CD DIRECT 1 connect to Serato Input 1.
- 2) From Prodigy FX – CD DIRECT 2 connect to Serato Input 2.
- 3) From Serato Box – Line 1 Output, connect to Prodigy FX Line 1 Input.
- 4) From Serato Box – Line 2 Output, connect to Prodigy FX Line 2 Input.



## Conectiv by M-Audio

**How To Connect Conectiv by M-Audio to the Prodigy FX:**

- 1) From Prodigy FX – CD DIRECT 1 connect to Conectiv Input A
- 2) From Prodigy FX – CD DIRECT 2 connect to Conectiv Input B
- 3) From Conectiv – Output A connect to Prodigy FX Line 1 input.
- 4) From Conectiv – Output B connect to Prodigy FX Line 2 input.



# SPECIFICATIONS

### GENERAL:

Power: AC115/230V, 60/50Hz, 46 Watts  
 Operational temperature: 41F to 95F (+5 to +35°C)  
 Storage temperature: -4F to 140F (-20 to +60°C)  
 Operational humidity: 25% to 85% (there should be no condensation of moisture)

Dimensions: W26.2" x D13.2" x H4.3"  
 664 (W) x 334 (D) x 109 (H) mm

Weight: 22.9 lbs / 10.4 kg

### CD SECTION:

Laser pick-up: SONY KSM-213QCS with 3 spot beam tracking detection, 780nm wave length  
 D/A conversion: 1 bit  
 Sampling rate: 44.1 kHz with 8 times over sampling  
 Frequency response: 20 Hz to 20,000 Hz, +/-2 dB  
 DIRECT CD Output level: 2 Vrms +/-1 dB  
 Applicable file extensions: .mp3 .MP3 .mP3 .Mp3  
 (63 maximum number of characters)  
 Maximum No. of Folders: 255  
 Maximum number of files: 999 (with a maximum of 255 files per folder)  
 Disc Writing Method: Disc at Once and Track at Once  
 Multi Session (If the 1st session is CDDA, you can playback only CDDA tracks. If the 1st session is MP3, you can playback only MP3)  
 MP3 format: MPEG 1 Layer 3 standard (ISO/IEC 11172-3) with sampling frequencies of 32, 44.1 and 48kHz, bit rate 32-320 Kbps. MPEG 2 Layer 3 standard (ISO/IEC 13818-3) with sampling frequencies of 16, 22.05 and 24 kHz, bit rate 32-160 Kbps. MPEG 2.5 Layer 3 standard with sampling frequencies of 8, 11.025 and 12 kHz, bit rate 32-160 Kbps.

Pitch control range  
 / Pitch bend: +/-4%, +/-8%, +/-16%, +/-100%

### MIXER SECTION:

Master outputs  
 (EQs flat, faders at max):  
 Frequency response: 20 Hz to 20,000 Hz, +/-2 dB  
 Output level (nominal): 2 Vrms on balanced XLRs  
 1 Vrms on unbalanced RCAs  
 S/N ratio: more than 80 dB (measured with 20 kHz LPF, A-weighted)  
 THD+N: less than 0.05%  
 Channel separation: better than 65 dB (measured with 20 kHz LPF, A-weighted)  
 Fader max attenuation: more than 75 dB at 1 kHz  
 X-fader max attenuation: more than 75 dB at 1 kHz

### Inputs Sensitivity / Impedance / Frequency Response:

MIC: 6.3 mV (-44 dBV) / 2 kOhm / 20-20,000 Hz  
 Phono: 3.16 mV (-50 dBV) / 47 kOhm / 20-20,000 Hz RIAA  
 Line: 200 mV (-14 dBV) / 20 kOhm / 20-20,000 Hz  
 MP3: 200 mV (-14 dBV) / 20 kOhm / 20-20,000 Hz  
 Return (effects): 316 mV (-10 dBV) / 20 kOhm / 20-20,000 Hz

### Outputs' Level / Impedance / Frequency Response:

Master balanced (XLR): 2 V (6 dBV) / 600 Ohm / 20-20,000 Hz  
 Master unbalanced (RCA): 1 V (0 dBV) / 300 Ohm / 20-20,000 Hz  
 Direct CD (with 0dBFs): 2 V (6 dBV) / 470 Ohm / 20-20,000 Hz  
 Booth: 1 V (0 dBV) / 1 kOhm / 20-20,000 Hz  
 Record: 316mV (-10dBV) / 1 kOhm / 20-20,000 Hz  
 Send (effects): 316mV (-10dBV) / 1 kOhm / 20-20,000 Hz  
 Headphones  
 (with 32 Ohm load): 1 V (0 dBV) / 33 Ohm / 20-20,000 Hz

### EQ SECTION:

MIC 1:  
 LOW: +/-12 dB at 70 Hz  
 MID: +/-12 dB at 1 kHz  
 HIGH: +/-12 dB at 13 kHz

### CHANNELS:

LOW: +12/-30 dB at 70 Hz  
 MID: +12/-30 dB at 1 kHz  
 HIGH: +12/-30 dB at 13 kHz





# LIMITED WARRANTY

Thank you for choosing the B-52 Prodigy, a product by E.T.I. Sound Systems, Inc. For purposes of this warranty B-52 shall mean E.T.I. Sound Systems, Inc. B-52 manufactures some of the world's best audio products and takes great pride in thoroughly testing each B-52 product prior to shipment.

## **PRODIGY WARRANTY:**

B-52 warrants to the original purchaser that the B-52 Prodigy will be free from defects in material and workmanship for a period of (1) ONE YEAR (365 days) from the original purchase date. A dated sales receipt will establish coverage under this warranty. This warranty will automatically terminate (1) ONE YEAR after the original sales date. This warranty is 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 date and place of purchase by acceptance evidence at the time service is being sought.

This (1) ONE YEAR warranty does not cover service or parts to repair damage caused by accident, disaster, misuse, abuse, wear and tear, subjecting the unit to power in excess of its published rating, damage due to lightning or power surges, if the serial # has been altered or removed, inadequate packing or shipping procedures and service, repair or modifications to the Prodigy which has not been authorized or approved by B-52 in writing. This (1) ONE YEAR warranty does not cover cross faders. Parts supplied under warranty may be new or rebuilt at the option of B-52. This warranty is in lieu of all other expressed warranties. If this product is defective in materials or workmanship as warranted above, your sole remedy shall be repair or replacement.

This is not a service contract and this warranty does not include maintenance, cleaning or periodic check-up. B-52 reserves the right to make changes in design and/or improvements to its products without any obligation to include these changes in any products theretofore manufactured.

## **INCIDENTAL OR CONSEQUENTIAL DAMAGES:**

In no event shall B-52 be liable for any incidental or consequential damages arising out of the use or inability to use any B-52 product, even if B-52 or a B-52 dealer has been advised of the possibility of such damages, or any other claim by any other party. Some States do not allow the exclusion or limitation of consequential damages, so the above limitation and exclusion may not apply to you. This

warranty gives you specific legal rights and you may also have other rights that may vary from State to State.

## **PURCHASING FROM UNAUTHORIZED DEALERS:**

If this product was purchased from an unauthorized dealer there are no warranties, express or implied, including the implied warranty of merchantability and the implied warranty of fitness for a particular purpose and this product is sold "as is" and "with all faults".

## **RETURN PROCEDURES:**

In the event product repair is needed, follow the procedure outlined below. Contact B-52 (1-800-344-4ETI or 1-323-277-4100) from 8 am to 4:30 pm Pacific Standard Time, for the location of the authorized service center nearest you. Follow the service center's instructions regarding return of the product. In some instances B-52 may request you return the product directly to B-52 for service or repair. After speaking with a B-52 representative, you will be issued a return authorization number (RAN) which you need to clearly label the returned merchandise with. If you are sending the product by common carrier, package it carefully and send it, transportation prepaid by traceable, insured method to B-52, or Authorized Service Center. Package the product using adequate padding material to prevent damage in transit. The original packaging is ideal for this purpose. Include your name, address, RAN #, copy of your receipt and telephone number where you can be reached during business hours.

## **YOU MUST SHIP THE PRODIGY WITHIN THE ORIGINAL MASTER PACKAGING OR EQUIVALENT.**

## **FOR YOUR PROTECTION:**

Please complete and mail the Purchase Information Card within (10) ten days of the date of purchase so that we may contact you directly in the event a safety notification is issued in accordance with the 1972 Consumer Product Safety Act. In addition, we ask that you complete the brief questionnaire so we may analyze your answers and in this way, help us evaluate our customer needs.

## **CUSTOMER SERVICE:**

Our dedicated staff is ready to help you with any B-52 warranty or product questions you may have. Please call 323-277-4100 (9:00AM to 4:00PM Pacific Standard Time, United States).



## NOTES



PRECISION FOR YOUR PASSION

**PRODIGY**

**B-52 PROFESSIONAL**

3383 Gage Avenue, Huntington Park, CA 90255

Internet: [www.ProdigyFX.com](http://www.ProdigyFX.com) or [www.B-52Pro.com](http://www.B-52Pro.com)

Ph: 323-277-4100 Fax: 323-277-4108 Toll Free: 800-344-4384

**B-52 Professional is dedicated to product excellence and therefore continuously attempts to improve each and every model we manufacture. This ongoing process includes refinements in design, materials and workmanship which may result in products which differ than those described in our literature. All features, specifications, prices and terms are subject to change without notice.**